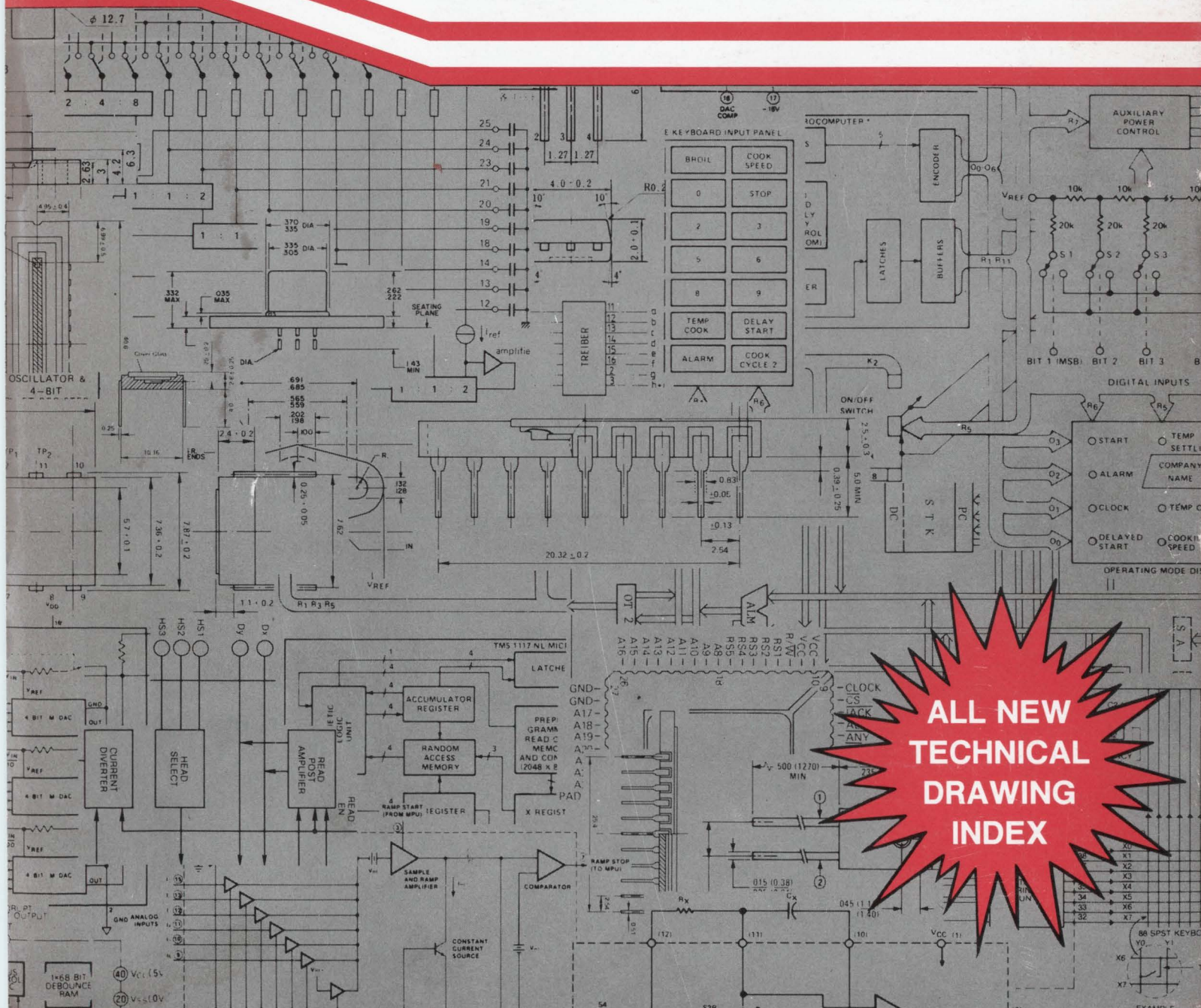


1984

P.A.T.A. BOOK[®]

ELECTRONIC INFORMATION SERIES

DIGITAL INTEGRATED CIRCUITS EDITION 16



**ALL NEW
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1984

D.A.T.A. BOOK®

ELECTRONIC INFORMATION SERIES

VOLUME 29 - BOOK 8 - MARCH 1984

**DIGITAL
INTEGRATED CIRCUITS**

EDITION 16

13,908 TYPES

53 MANUFACTURERS

**Semi-Annual
1st Issue**

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EDITORIAL POLICY AND PROCEDURES

- PURPOSE** This D.A.T.A.BOOK is designed to report comprehensively on what is presently being produced throughout the world in the field of Logic/Computational ICs. While a book such as this can not provide 100% of the information you might need, its primary aims are those of facilitating the selection of types suitable to your technical requirements, and of directing you to the sources of their manufacture.
- TECHNICAL DATA ACQUISITION** D.A.T.A. acquires and processes the information presented in this D.A.T.A.BOOK with the cooperation of the participating manufacturers who supply us with their latest technical information. Manufacturers are not charged for the listing of their products.
- MILITARY TYPE NUMBERS** The electrical, mechanical and environmental information tabulated for the military types in the technical sections is derived directly from the applicable military specifications and standards. The source information, showing the particular manufacturers qualified for each type, is derived from the QPL (Qualified Parts List) associated with the governing specification, or from the manufacturers' Qualification Test Letters.
- SUBSTITUTE TYPES AND COMPATIBILITY** This D.A.T.A.BOOK can not truly claim to be an interchangeability chart; however, because of the sequencing arrangement of selected characteristics in the technical sections, types with the same or similar characteristics are grouped together. For purposes of replacement, this means of thorough, convenient technical comparison should prove superior to, and safer than, a mere listing of possible substitute type numbers.
- PRICE AND AVAILABILITY** Because of the rapidly changing and complex nature of this field, current price and delivery information should be obtained direct from the manufacturers. The list of manufacturers and the Local Offices Section in back of the book will assist you in this.
- MICROFILM SERVICE** Type numbers in the Cross Index indicating data sheets are available, can be obtained in a Microfilm Service. Inquiries should be directed to Customer Service at 1-800-854-7030.
- MANUFACTURERS' SPECIFICATIONS** This book includes currently manufactured devices and devices soon-to-be available with their major characteristics, drawings and manufacturers. Every effort is made to ensure the accuracy of the entries herein; however, the publisher can not be held responsible nor guarantee against the possibility of error or omission. Only the manufacturers or their authorized representatives can provide you with complete technical details.

HOW TO USE THIS BOOK

3 BASIC WAYS:

	If you know:	And need to know:	Read:
1	Electrical & mechanical requirements	A type number	Explanation 1
2	A type number	The electrical and/or mechanical characteristics or its circuit and outline configuration or who manufactures it or an equivalent type	Explanation 2
3	A common (or generic) device number or Functional Equivalent Device number	the manufacturer or the type number or class	Explanation 3

1 If you know: the electrical and mechanical requirements (including military):
 And need to know: a suitable type number:

- Select from the Table of Contents the Technical Section corresponding to the known device type.
- Turn to that section. Symbols and codes used in these technical sections are explained in the "Interpreter" pages at the back of the book.
- Notice the sequencing parameters in top right corner of the page

5. GATES

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC (4) LOGIC (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT	TECH	TYPE OF GATE	LOGIC LEVEL	IN	FAN OUT	POWER SUPPLY	PROPAGATION DELAY	MAXIMUM RISE TIME	MAXIMUM FALL TIME	MAX OPER POWER DISS	MAX NOISE REJECT	OPER TEMP RANGE	CKTS PER MOD	DRAWINGS LOGIC OR BLOCK	OUTLINE	
5					MIN '1' (V)	MAX '0' (V)		MAX SPAN (V)	NEG (V) POS (V)	PROPA GATION DELAY (S)	MAXIMUM RISE TIME (S)	MAXIMUM FALL TIME (S)	MAX OPER POWER DISS (W)	MAX NOISE REJECT (V)	OPER TEMP RANGE (°C)	CKTS PER MOD	DRAWINGS LOGIC OR BLOCK	OUTLINE

- Locate the type numbers that are in general agreement with your requirements. Because of the sequencing these types will appear together; select your type number. Military types are prefaced with JAN.
- If you need the manufacturer, use the manufacturer code from the Type No. Cross Index Page.
- Turn to the Manufacturers' Codes, Names and Addresses Section.

27. MANUFACTURERS' CODES, NAMES & ADDRESSES

(Manufacturers in order of D.A.T.A. Code Letters)

OPL MFR. DESIG.	FSCM/ NATO No.	D.A.T.A. MFRS' CODE	
↓	↓	↓	
ADA			ADAC Corporation, 70 Tower Office Park, Woburn, MA 01801
AEGG			AEG-Telefunken Fachbereich, 4788 Warstein 2 (E31-FBE), Postfach 2160, Leistungshalbleiter, West Germany

- Find the manufacturer code and thus the name.
- Local offices of the manufacturer can be found in the Sales Office Listing Section and company logos are listed in the Logo Section.

2 If you know: the type number (including military which has JAN prefix):
First: Turn to Section 1, the TYPE NUMBER CROSS INDEX and find your type number.

If you need to know:

- The electrical characteristics:
 Note the page and line number beside your Type.

1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS Pg&Line	TYPE No.	MFRS Pg&Line	TYPE No.	MFRS Pg&Line	TYPE No.	MFRS Pg&Line	TYPE No.	MFRS Pg&Line
HA1189	HITJ 4. 4								
HA11225	HITJ 4. 7								
HA11227	HITJ 4. 1								

Locate that page and line number, and you will find the electrical characteristics.

or b. The circuit and outline drawings:

Those numbers are in the last column



5. GATES

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC (4) LOGIC (5) TYPE NO.

LINE No	TYPE NO	DATA SHT	TECH	TYPE OF GATE	LOGIC LEVEL		IN	FAN OUT MAX	POWER SUPPLY SPAN NEG (V)	PROPAGATION DELAY POS (S)	RISE TIME (S)	FALL TIME (S)	MAX OPER POWER DISS (W)	MAX NOISE REJECT (V)	OPER TEMP RANGE PER MOD	CKTS PER	DRAWINGS		
					3 MIN (V)	4 MAX (V)											LOGIC OR BLOCK	OUTLINE	

and the drawings are listed sequentially in the Drawing Index. Locate the drawing number and note the page number listed. Your drawing will be on the page indicated.

or c. Who manufactures it:

Use the manufacturer code



1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS Pg&Line	TYPE No.	MFRS Pg&Line	TYPE No.	MFRS Pg&Line	TYPE No.	MFRS Pg&Line	TYPE No.	MFRS Pg&Line
HA1199	HITJ 4-4								
HA11225	HITJ 4-7								

refer to the Manufacturers' Codes, Names and Addresses for complete information. Local offices can be found in the Sales Office Listings Section.

or d. An equivalent type:

Survey the type numbers with similar electrical parameters surrounding the known number to determine the suitable alternatives.

Symbols and codes used in these technical sections are explained in the "Interpreter" pages at the back of the book.

3

If you know: A common (generic) or functional equivalent device number:

First: Turn to the first section of the **GENERIC PRODUCT INDEX** or the **FUNCTIONAL EQUIVALENCE MASTER INDEX**.

And need to know: Available manufacturers and type numbers and product class:

Locate your generic number



GENERIC PRODUCT INDEX

IN ORDER OF: (1) GENERIC NO. (2) MFR TYPE NO.

LINE No	GENERIC NO.	MANUFACTURER TYPE NO.	MFR CODE	PRODUCT CLASS	PAGE & LINE	LINE No	GENERIC NO.	MANUFACTURER TYPE NO.	MFR CODE	PRODUCT CLASS	PAGE & LINE
1	001	RO01	DEC	GATE	132-31	111	4	TMNG4	WLD	GATE	100-105
2	1	1N5768	TII	DI ARRAY	40-44	112	4	TMOA4	WLD	TIME DELAY	146-94
3	1	1N5768	FSC	DI ARRAY	40-44	113	4	TMOF4	WLD	TIME DELAY	146-23



Note the manufacturer type number, code and product class and the last columns will give you page and line numbers for full details.

Symbols and codes used in these technical sections are explained in the "Interpreter" pages at the back of the book.

Locate your functional equivalent number



FUNCTIONAL EQUIVALENCE MASTER INDEX										IN ORDER OF: (1)FUNCTIONAL NO. (2) TECH (3)TYPE NUMBER (4)MFR. CODE			
LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	USE CODE	PAGE & LINE	LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	USE CODE	PAGE & LINE
1	88-09	HMS	S88809	AMI	MP03	18- 13	111	88-48	HMS	MC8848S	MOTAB		42- 23
2	88-09	HMS	S8809	AMI	MP03	18- 27	112	88-47	HMS	MC8847YL	MOTAMP08		48- 54
3	88-09	HMS	SFF8-88A09E	EFCF	MP03	18- 34	113	88-47	NMS	MC8847L	MOTAMP08		48- 55



Note the Technology, Type Number, Mfr. Code, and the last columns will give you the D.A.T.A. publication code and section number followed by page and line number for full details.

If you know: The manufacturer type number:
And need to know: The Functional Number Equivalence

Locate your type number



TYPE TO FUNCTIONAL NUMBER EQUIVALENCE										IN ORDER OF: (1) MFG TYPE NUMBER			
LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME		
1	MC88A00L	88-00	NMS	MP03	uPROCESSOR	111	MC2901AFM	29-00	BIP	MP03	uPROCESSOR		
2	MC88A00P	88-00	NMS	MP03	uPROCESSOR	112	MC2901ALC	29-00	BIP	MP03	uPROCESSOR		
3	MC88A00S	88-00	NMS	MP03	uPROCESSOR	113	MC2901ALM	29-00	BIP	MP03	uPROCESSOR		



Note the Functional Equivalence Number, Technical Family, and the last columns will give you the D.A.T.A. publication code and section number and Book Name.

Symbols and codes used in these technical sections are explained in the "Interpreter" pages at the back of the book.

USING THE FUNCTIONAL EQUIVALENCE MASTER INDEX (FEMI)

The "Functional Equivalence Master Index" (FEMI) and "Type to Functional Number Equivalence" sections have replaced the "Generic Product Index" found in previous editions. The two new sections provide the reader with more powerful tools for finding equivalent devices.

A functionally equivalent device is best defined as being pin for pin compatible with another device type number by being so stated in the technical data supplied by the manufacturer, or from the manufacturers electrical schematic illustrations. The FEMI indicates a pin for pin compatibility by function, but not necessarily by technology. The detail on the technology compatibility is provided in the "TECH FMLY" column. Variations such as Tri-State output or open collector are identified as separate Functional Equivalence Master Index numbers. The type to Functional Number Equivalence section provides the Functional Equivalence Number if the type number is known. The Functional Equivalence Number also corresponds to the drawings number which allows easy cross reference between the FEMI and the drawings.

Continued on next page

COMMENT UTILISER CE MANUEL

3 MÉTHODES FONDAMENTALES:

	Si vous connaissez:	Et il vous faut:	Consultez:
1	Les caractéristiques électriques et mécaniques requises	Le type de composants	Explication 1
2	Le type de composants	Les caractéristiques électriques et/ou mécaniques OU La configuration de son circuit et de son boîtier OU Le fabricant OU Un modèle équivalent	Explication 2
3	Une référence de système commun (générique)	Le fabricant OU La référence exacte OU La classification	Explication 3



Si vous connaissez: les conditions électriques et mécaniques requises (y compris pour le secteur militaire)

Et il vous faut: La référence du modèle qui convient.

- Dans la table des matières, sélectionnez la Section Technique correspondant au genre de système connu.
- Reportez-vous à cette section. L'explication des codes et symboles utilisés dans les sections techniques se trouve à la fin du manuel, aux pages intitulées "Interprète."
- Remarquez les paramètres séquentiels en haut de la page, à droite.

5. GATES

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC (4) LOGIC (5) TYPE NO

LINE No	TYPE NO	DATA SHT	TECH	TYPE OF GATE	LOGIC LEVEL	IN	OUT	POWER SUPPLY SPAN	PROPAGATION DELAY	RISE TIME	FALL TIME	MAX OPER POWER DISS	MAX NOISE REJECT	TEMP RANGE	CKTS PER MOD	LOGIC OR BLOCK	DRAWINGS OUTLINE
5]			1]	2]	3|MIN 1 (V)	4|MAX 0 (V)	FAN MAX	NEG POS (V) (S)	DELAY (S)	(S)	(S)	(W)	(V)	+ -			

- Repérez les références des modèles qui correspondent à vos conditions requises. Grâce à leur ordre séquentiel, ces modèles apparaîtront groupés; choisissez votre type. Les modèles militaires sont précédés du préfixe JAN.
- S'il vous faut le fabricant, utilisez le code des fabricants qui vous est donné à la page de l'Index des Modèles.
- Reportez-vous à la section consacrée aux Codes, Noms et Adresses des Fabricants.

27. MANUFACTURERS' CODES, NAMES & ADDRESSES

(Manufacturers in order of D.A.T.A. Code Letters)

OPL MFR. DESIG.	FSCM/ NATO No.	D.A.T.A. MFRS. CODE	
ADA			ADAC Corporation, 70 Tower Office Park, Woburn, MA 01801
AEGG			AEG-Telefunken Fachbereich, 4788 Warstein 2 (E31-FBE), Postfach 2160, Leistungshalbleiter, West Germany

- Recherchez le code du fabricant et vous trouverez ainsi son nom.
- Vous trouverez les représentants locaux du fabricant dans la section où sont répertoriés les bureaux de vente; et les sigles des sociétés dans celle qui leur est consacrée.



Si vous connaissez: la référence du modèle (y compris la référence militaire qui est précédée de JAN).

Tout d'abord: reportez-vous à la section 1, à la rubrique "TYPE" et trouvez la référence de votre modèle.

S'il vous faut:

- Les caractéristiques électriques:
Relevez le numéro de la page et de la ligne à côté de votre référence.



1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS Pg&Line	TYPE No.	MFRS Pg&Line	TYPE No.	MFRS Pg&Line	TYPE No.	MFRS Pg&Line	TYPE No.	MFRS Pg&Line
2B52A-1J01	ANA 125-49	54LS33FM	FSC 35-77	74F138DC	FSC 109-30	74LS157DC	FSC 104-18	74SC239P(A)	STX 106-38
2B52A-1J05	ANA 125-50	54LS40DM	FSC 35-61	74F138PC	FSC 109-31	74LS157PC	FSC 104-19	74SC240C(MA)	STX 43-28
2B52A-1K01	ANA 125-51	54LS40FM	FSC 35-62	74F139DC	FSC 111-33	74LS158DC	FSC 104-20	74SC240D(MA)	STX 43-28

Repérez le numéro de cette page et de cette ligne et vous trouverez les caractéristiques électriques.

- ou b. Les dessins du circuit et du boîtier:
Ces numéros se trouvent dans la dernière colonne et les dessins sont dans la section qui leur est



5. GATES IN ORDER OF: (1)TECHNOLOGY(2)TYPE(3)LOGIC(4)LOGIC(5)TYPE NO.

LINE No	TYPE NO	DATA SHT	TECH	TYPE OF GATE	LOGIC LEVEL		IN	FAN OUT MAX	POWER SUPPLY SPAN NEG (V)	PROPAGATION DELAY (S)	RISE TIME (S)	FALL TIME (S)	MAX OPER POWER DIS (W)	MAX NOISE REJECT (V)	OPER TEMP RANGE (°C)	CKTS PER MOD	DRAWINGS	
					3 MIN (V)	4 MAX (V)											LOGIC OR BLOCK	OUTLINE

réservée et sont numérotés comme indiqué.

- ou c. Le fabricant:
Utilisez le code du fabricant.



1. TYPE No. CROSS INDEX IN TYPE NUMBER SEQUENCE

TYPE No	MFRS Pg&Line	TYPE No	MFRS Pg&Line	TYPE No	MFRS Pg&Line	TYPE No	MFRS Pg&Line	TYPE No	MFRS Pg&Line
2B52A-1J01	ANA 125-49	54LS38FM	FSC 36-77	74F138DC	FSC 109-30	74LS157DC	FSC 104-18	74SC238P(A)	STX 108-36
2B52A-1J05	ANA 125-50	54LS40DM	FSC 35-61	74F138PC	FSC 109-31	74LS157PC	FSC 104-19	74SC240C(MA)	STX 43-28
2B52A-1K01	ANA 125-51	54LS40FM	FSC 35-62	74F139DC	FSC 111-33	74LS158DC	FSC 104-20	74SC240D(MA)	STX 43-28

Reportez-vous aux Codes, Noms et Adresses des Fabricants pour de plus amples informations. Vous trouverez les représentants locaux dans la section où sont répertoriés les bureaux de vente.

- ou d. Un type équivalent:
Recherchez les références des modèles ayant des paramètres électriques similaires et se trouvant de la référence autour connue afin de déterminer les alternatives qui conviennent.

L'explication des codes et des symboles utilisés dans les sections techniques se trouvent à la fin du manuel, aux pages intitulées "Interpreter."

3 Si vous connaissez: une référence de système commun (générique) ou de fonctionnement équivalent.

Tout d'abord: reportez-vous à la première section de l'INDEX GÉNÉRIQUE DES PRODUITS ou l'INDEX PRINCIPAL DES ÉQUIVALENCES DE FONCTIONNEMENT.

Generic product index ou functional équivalence master index.

Et il vous faut: les fabricants, les références des modèles et la classification des produits disponibles.

Repérez votre numéro générique.

GENERIC PRODUCT INDEX IN ORDER OF: (1)GENERIC NO. (2)MFR TYPE NO.

LINE No	1] GENERIC NO	2] MANUFACTURER TYPE NO.	MFR CODE	PRODUCT CLASS	PAGE & LINE	LINE No	1] GENERIC NO	2] MANUFACTURER TYPE NO.	MFR CODE	PRODUCT CLASS	PAGE & LINE
1	8T98	S8T98F	PHIN	BUFF DRIV	34-21	111	10	SMP10C	PMI	SAMP/HOLD	120-42
2	8T98	S8T98F	RTCF	BUFF DRIV	34-21	112	10	SMP10N	PMI	SAMP/HOLD	120-37
3	8T98	S8T98F	SIC	BUFF DRIV	34-21	113	10	DAC10FX	PMI	D/A CONV	72-81



Relevez la référence du modèle du fabricant, le code et la classification du produit et les dernières colonnes vous fourniront le numéro de la page et de la ligne où vous trouverez de plus amples informations.

Repérez votre référence d'équivalence de fonctionnement.

FUNCTIONAL EQUIVALENCE MASTER INDEX

IN ORDER OF: (1)FUNCTIONAL NO. (2) TECH
(3)TYPE NUMBER (4)MFR. CODE

LINE No	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	USE CODE	PAGE & LINE	LINE No	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	USE CODE	PAGE & LINE
1	29-781	SCH	AM2981DC.B	AMD	IF20	136-27	111	54LS253W	TTL	S54S253W	MULB	IF13	103-38
2	29-762	SCH	AM2962DC.B	AMD	IF20	136-34	112	54LS253W	TTL	SN54LS253W	AMD	IF13	101-107
3	47LS243N	TTL	M74LS243P	MTJ	IF03	47-61	113	54LS352W	TTL	54F352FM	FSC	IF13	102-109

Relevez la technologie, la référence du modèle, le code du fabricant; les dernières colonnes vous fourniront le code de la publication D.A.T.A. et le numéro de la section suivi du numéro de la page et de la ligne où vous trouverez de plus amples informations.

Si vous connaissez: la référence du modèle du fabricant.

Et il vous faut: l'équivalence de fonctionnement du type.

Repérez la référence de votre modèle.

TYPE TO FUNCTIONAL NUMBER EQUIVALENCE

IN ORDER OF (1) MFG TYPE NUMBER

LINE No	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	LINE No	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME
1	MC68A00L	68-00	NMS	MP03	μPROCESSOR	111	MC29C1AFM	29-00	BIP	MP03	μPROCESSOR
2	MC68A00P	68-00	NMS	MP03	μPROCESSOR	112	MC2901ALC	29-00	BIP	MP03	μPROCESSOR
3	MC68A00S	68-00	NMS	MP03	μPROCESSOR	113	MC2901ALM	29-00	BIP	MP03	μPROCESSOR

Relevez la référence d'équivalence de fonctionnement, la famille technique et les dernières colonnes vous fourniront le code de la publication D.A.T.A., le numéro de la section et le nom du manuel.

L'explication des codes et des symboles utilisés dans les sections techniques se trouvent à la fin du manuel, aux pages intitulées "Interpreter."

COMO USAR ESTE LIBRO

3 MODOS BASICOS:

1	Si Ud. sabe: Los requisitos eléctricos y mecánicos	Y necesita saber: Un número de tipo	Lea: Explicación 1
2	Un número de tipo	Las características eléctricas y/o mecánicas o su circuito y su encapsulado o quien lo fabrica o un tipo equivalente	Explicación 2
3	Un número de dispositivo común (o genérico)	el fabricante o el número de tipo o la clase	Explicación 3

1

Si Ud. sabe: los requisitos eléctricos y mecánicos (incluyendo los militares):
Y necesita saber: un número de tipo adecuado

- Elija de entre la tabla dematerias adecuada la sección técnica que corresponda al dispositivo conocido.
- Diríjase a esa sección. Los símbolos y códigos que se emplean en estas secciones técnicas se explican en las páginas "Interpretador" la parte trasera del libro.
- Mire los parámetros secuenciales en el extremo derecho superior de la página.

5. GATES

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC (4) LOGIC (5) TYPE NO.

LINE No	5	TYPE NO	DATA SHT	TECH	2	TYPE OF GATE	LOGIC LEVEL	3	MIN	4	MAX	IN	OUT	PAN	POWER SUPPLY	SPAN	PROPAGATION DELAY	RISE TIME	FALL TIME	MAX OPER DIS	MAX NOISE REJECT	OPER RANGE	CKTS PER MOD	LOGIC OR BLOCK	DRAWINGS OUTLINE
							1			0							(S)	(S)	(S)	(W)	(V)	+			

- Localice tipos que por lo general concuerdan con sus requisitos. Debido al control secuencial, estos tipos aparecerán juntos; seleccione su tipo. Los tipos militares aparecen con el prefijo JAN.
- Si necesita saber el fabricante, use el código de fabricantes que se encuentra en la página del Índice de Tipos.
- Diríjase a la Sección de Códigos, Nombres y Direcciones de Fabricantes.

27. MANUFACTURERS' CODES, NAMES & ADDRESSES

(Manufacturers in order of D.A.T.A. Code Letters)

QPL MFR. DESIG.	FSC/NATO No.	D.A.T.A. MFRS. CODE	
ADA			ADAC Corporation, 70 Tower Office Park, Woburn, MA 01801
AEGG			AEG-Teletunken Fachbereich, 4788 Warstein 2 (E31-FBE), Postfach 2160, Leistungshalbleiter, West Germany

- Encuentre el código del fabricante y así encontrará el nombre.
- Las oficinas locales del fabricante pueden encontrarse en la Sección de Listas de Oficinas de Venta y los logos se encuentran en la Sección de Logos.

2

Si Ud. sabe: el número del tipo (incluyendo el tipo militar con su prefijo JAN)
Primero: Diríjase a la Sección 1, el INDICE DE REFERENCIA SISTEMATICA DE NUMEROS DE TIPOS y localice el número de su tipo.

Si necesita saber:

- Las características eléctricas:
Mire la página y el número de la línea al lado de su Tipo.



1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS/Pg&Line	TYPE No.	MFRS/Pg&Line	TYPE No.	MFRS/Pg&Line	TYPE No.	MFRS/Pg&Line	TYPE No.	MFRS/Pg&Line
2B52A-1J01	ANA 125 43	54LS38PM	FSC 36 77	74F138DC	FSC 109 30	74LS157DC	FSC 104 18	74SC238(PA)	STX 108 36
2B52A-1J05	ANA 125 50	54LS400M	FSC 35 61	74F138PC	FSC 109 31	74LS157PC	FSC 104 19	74SC240C(MA)	STX 43 28

Localice esa página y el número de la línea, y encontrará las características eléctricas.

- o b. El esquema y el aspecto:
Esos números se encuentran en la última columna



5. GATES IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC (4) LOGIC (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT	TECH	TYPE OF GATE	LOGIC LEVEL		FAN IN/OUT		POWER SUPPLY		PROPAGATION DELAY (S)	MAXIMUM RISE/FALL TIME (S)		MAX OPER POWER DISS (W)	MAX NOISE REJECT (V)	OPER TEMP RANGE (°C)	CKTS PER MOD	DRAWINGS LOGIC OR BLOCK	OUTLINE
					MIN (V)	MAX (V)	IN	OUT	SPAN	POS (V)		RISE	FALL						

y los dibujos se encuentran en las Secciones de Dibujos, enumerados según se indica.

- o c. Quien lo fabrica:
Use el código del fabricante



1. TYPE No. CROSS INDEX IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS Pg&Line	TYPE No.	MFRS Pg&Line	TYPE No.	MFRS Pg&Line	TYPE No.	MFRS Pg&Line	TYPE No.	MFRS Pg&Line
2852A-1J01	ANA 125-43	54LS387M	FSC 35-77	74F138DC	FSC 109-30	74LS1570C	FSC 104-18	74SC239P(A)	STX 105-26
2852A-1J05	ANA 125-50	54LS40DM	FSC 35-61	74F138PC	FSC 109-31	74LS157PC	FSC 104-19	74SC240C(MA)	STX 43-28

y vaya a la Sección de Códigos, Nombres y Direcciones de los Fabricantes para obtener la información completa. Las oficinas locales del fabricante pueden encontrarse en la Sección de Listas de Oficinas de Venta.

- o d. Un tipo equivalente:
Revise los tipos que tengan parámetros eléctricos similares al rededor del número conocido para determinar las alternativas convenientes.

Los símbolos y códigos que se emplean en estas secciones técnicas se explican en las páginas Interpretador en la parte trasera del libro.

3

Si Ud. sabe: Un número de dispositivo común (o genérico) o funcionalmente equivalente

Primero: Diríjase a la primera sección del INDICE DE PRODUCTOS GENERICOS o el INDICE MAESTRO DE EQUIVALENTES FUNCIONALES

Y Ud. necesita saber: Los fabricantes, los números de tipos, y la categoría de los productos:

Localice su número genérico



GENERIC PRODUCT INDEX IN ORDER OF: (1) GENERIC NO. (2) MFR TYPE NO.

LINE No.	GENERIC NO.	MANUFACTURER TYPE NO.	MFR CODE	PRODUCT CLASS	PAGE & LINE	LINE No.	GENERIC NO.	MANUFACTURER TYPE NO.	MFR CODE	PRODUCT CLASS	PAGE & LINE
2	8T98	SBT98F	RTCF	BUFF DRIV	34-21	112	10	SMP10N	PMI	SAMP/HOLD	120-37
3	8T98	SBT98F	SIC	BUFF DRIV	34-21	113	10	DAC10FX	PMI	D/A CONV	72-81



Mire el número de tipo del fabricante, el código y la categoría del producto, y las últimas columnas le darán los números de la página y de la línea para obtener los detalles completos.

Localice el número equivalente funcional.



FUNCTIONAL EQUIVALENCE MASTER INDEX

IN ORDER OF: (1)FUNCTIONAL NO. (2) TECH
(3)TYPE NUMBER (4)MFR. CODE

LINE No	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	USE CODE	PAGE & LINE	LINE No	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	USE CODE	PAGE & LINE
1	29-781	SCH	AM2981DC.B	AMD	IF20	138- 27	111	64LS253W	TTL	S84S253W	MULBIF13	IF13	103- 38
2	29-782	SCH	AM2982DC.B	AMD	IF20	138- 34	112	64LS253W	TTL	SN64LS253W	AMD	IF13	101-107
3	47LS243N	TTL	M74LS243P	MITJ	IF03	47- 81	113	64LS342W	TTL	64E342EM	ESC	IF13	102-108



Mire la tecnología, el número de tipo, el código del fabricante, y las últimas columnas le darán el número de la sección y código de la edición D.A.T.A. seguidos por el número de la línea y de la página para detalles completos.

Si Ud. sabe: el número del tipo del fabricante

Y necesita saber: El número funcional equivalente

Localice su número de tipo



TYPE TO FUNCTIONAL NUMBER EQUIVALENCE

IN ORDER OF: (1) MFG TYPE NUMBER

LINE No	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	LINE No	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME
1	MC68A0DL	68 00	NMS	MP03	UPROCESSOR	111	MC2901AFM	29 00	BIP	MP03	UPROCESSOR
2	MC68A0DF	68 00	NMS	MP03	UPROCESSOR	112	MC2901ALC	29 00	BIP	MP03	UPROCESSOR
3	MC68A0DS	68 00	NMS	MP03	UPROCESSOR	113	MC2901ALM	29 00	BIP	MP03	UPROCESSOR



Mire el número equivalente funcional, la familia tecnológica, y las últimas columnas le darán el número de la sección y código de la edición D.A.T.A. así como el nombre del libro.

Los símbolos y códigos que se emplean en estas secciones técnicas se explican en las páginas "Interpretador" en la parte trasera del libro.

USE OF POWERS-OF-TEN MULTIPLIERS & SYMBOLS & CODES IN THE TECHNICAL SECTIONS

To present a maximum amount of information in a minimum amount of space, use is made in this book of the following data modifiers:

POWERS-OF-TEN MULTIPLIERS

The powers-of-ten multipliers shown below are used in numeric columns when the value being entered is many times greater or smaller than the units of measure indicated in the column heading. Usually, the latter are the so-called 'basic' units; such as V (volts), A (amperes) and s (seconds). The multipliers and an explanation of their use are given below:

MULTIPLIERS			EXPLANATION		
Power	Prefix	Symbol	Value of Data To Be Entered	Basic Unit In Column Heading	Actual Entry
10 ¹²	tera	T	3 milliamperes	A (amperes)	3.0m
10 ⁹	giga	G	9 megohms	Ω (ohms)	9.0M
10 ⁶	mega	M	0.5 volt	V (volts)	500m*
10 ³	kilo	k	10 amperes	A (amperes)	10
10 ²	hecto	h			
10	deka	da			
10 ⁻¹	deci	d			
10 ⁻²	centi	c			
10 ⁻³	milli	m			
10 ⁻⁶	micro	μ			
10 ⁻⁹	nano	n			
10 ⁻¹²	pico	p			
10 ⁻¹⁵	femto	f			
10 ⁻¹⁸	atto	a			

*May also be written as 0.5, with no multiplier

Recommended by International Committee on Weights and Measures. Adopted by National Bureau of Standards

SYMBOLS & CODES

Symbols: Symbols such as #, Δ, and \$ are used in all columns, numeric or otherwise, whenever the data entries differ in some way from the entity defined in the column heading. For instance, if a given heading specifies Max. Power (in Watts) and the numeric value being entered for a given type represents the minimum power instead, the variance is denoted by the appearance of a special symbol alongside the numeric entry.

Codes: Codes are used in some columns as means to abbreviate the data being entered. The codes may be alphabetic (A, B, C, etc.) numeric (1,2,3, etc.) or some combination of both.

Note: The symbols and codes used herein are explained on the Interpreter Pages in back of the book.

HOW TYPE NUMBERS ARE SEQUENCED IN THE TYPE NUMBER CROSS INDEX

Sequencing of type numbers in the Type Number Cross-Index is governed by the following rules:

Rules	Examples	Rules	Examples
1. Type numbers are listed in numeric-alphabetic sequence; i.e., type numbers beginning with a number (decimal, fraction, or whole) precede type numbers beginning with a letter.	13A01 143 1202 A147 AN127 B2000	3. Zeros are ignored in sequencing except when the zero is the only basis for distinguishing one type number from another. In this case the type number containing the zero is listed first.	0112 112 0113 00115 AP01 AP1 AP02
2. Decimals and fractions precede whole numbers. An equivalent decimal precedes the fraction when the remainder of type number is identical.	.25Z150 1/4Z150 3/4M12Z 1T3	4. Number and/or letter groupings preceding hyphens or slashes are the controlling factors in sequencing. The hyphens and slashes themselves precede any identically positioned letters also having the same beginning number/letter groupings.	66-0706 66M1 70/10 70A9

HOW TYPE NOS. ARE ARRANGED IN THE TECHNICAL SECTION — SEQUENCING PARAMETERS

The arrangement of types in the technical sections is keyed to a set of special characteristics selected for their importance from among the general group of characteristics tabulated in each section. These selected characteristics, or sequencing parameters, differ from one section to another, and are identified at the top of each page, as shown in the sample below.

MAJOR CHARACTERISTICS										SEQUENCING PARAMETERS											
LINE No.	TYPE No.	TYPE OF GATE	MAX OPER. FREQ. (Hz)	PRO. CESS	LOGIC LEVEL	LOGIC TYPE	FAN IN	FAN OUT MAX.	POWER SUPPLY SPAN		PROPA. GATION DELAY (s)	RISE TIME tr (s)	FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP.		CKT PER MOD	DRAWINGS		
									NEG. (V)	POS. (V)						LOW °C	HI °C		LOGIC DWG. No	OUTLINE DWG. No Δ = MO	
6		1	5		3	4															

5. GATES

IN ORDER OF: (1)TYPE GATE (2)LOGIC TYPE (3)LOG '1' (4)LOG '0' (5)MAX.FREQ.(6)TYPE No

The different types within a section are first arranged in ascending numeric (or alphabetic) order of the first such parameters. Groups of types having a common value for the first parameter are then arranged in ascending order of the second parameter. This process continues for each parameter in turn, up to and including the last parameter which, in every instance, is the type number itself. The final arrangement, by type number, is done in accordance with the sequencing of type numbers in the cross-index, as explained on the preceding page.

A simplified model of the arrangement as described is shown below.

4 Type Number	Characteristics			
	1 A	2 B	C	3 D
A13	100		325	
A4	100		1000	20
A9	100	A	20	25
A10	100	A	200	25
A3	100	B	40	15
A1	100	C	80	10
A8	100	C	900	15
A7	100	D	35	30
A11	110	A	60	25
A2	120	A	300	15
A5	120	B	150	20
A6	120	B	200	20
A12	120	B	475	25

↑ Last Seq. Par.
↑ 1st Seq. Par.
↑ 2nd Seq. Par.
↑ (Not Seq.)
↑ 3rd Seq. Par.

Note that the absence of an entry for any sequencing parameter is regarded as a zero, and precedes any actual entries in the sequencing.

GENERAL TERMS AND DEFINITIONS

MATRIX	A logic network whose configuration is an array of intersections of its input-output leads, with elements connected at some of these intersections. The network usually functions as an encoder or decoder.	FREQUENCY DIVIDER	A device for delivering an output wave whose frequency is a proper fraction, usually a submultiple, of the input frequency. Note: Usually the output frequency is an integral submultiple or an integral proper fraction of the input frequency.
MULTIPLIER	A device that has two or more inputs and whose output is a representation of the product of the quantities represented by the input signals.	GATE	A device having one output channel and one or more input channels, such that the output channel state is completely determined by the contemporaneous input channel states, except during switching transients.
ADDER	A device whose output is a representation of the sum of the two or more quantities represented by the inputs.	TIME DELAY	A circuit that delays the transmission of an impulse signal, or the performance of a transducer, for a definite desired length of time.
CLOCK	A device that generates periodic signals used for synchronization.	ARITHMETIC LOGIC UNIT (ALU)	A part of a computer that performs arithmetic operations, logic operations, and related operations.
COMPARATOR	A circuit for performing amplitude selection between either two variables or between a variable and a constant.	LOOK AHEAD CARRY GENERATOR	A device that directly considers all the addend and augend adder bits from previous stages in order to determine the carry input to all stages of more significant bits.
COUNTER	A device, capable of changing from one to the next of a sequence of distinguishable states upon each receipt of an input signal.	PARITY GENERATOR CHECKER	A device that generates or checks the number of 1's in a word to predetermine an error condition that might exist during processing or transmission of digital information.
DECODER	A matrix of logic elements that selects one or more output channels according to the combination of input signals present.	LATCH	A name commonly used to refer to a flip-flop (usually a "D" type) when used for data storage, as opposed to counting and logic functions.
FLIP-FLOP	A circuit or device, containing active elements, capable of assuming either one of two stable states at a given time, the particular state being dependent upon (A) the nature of an input signal, for example, its polarity, amplitude, and duration, and (B) which of two input terminals last received the signal.	MULTIVIBRATOR	A relaxation oscillator in which the in-phase feedback voltage is obtained from two electron tubes or transistors. Typically, their outputs are coupled through resistive-capactive elements.

FUNCTIONAL EQUIVALENCE MASTER INDEX

IN ORDER OF: (1)FUNCTIONAL NO. (2) TECH
(3)TYPE NUMBER

LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE
1	40-00	CMS	883/4000B	SSS	MO	LC05	61- 91	111	40-02	CMS	MC14002UBCP	MOTA	DL	LC05	61- 39
2	40-00B		CM4000AD	SOD	DL	LC05	55- 16	112	40-02	CMS	MSM4002RS	OKIJ	DL	LC05	58- 91
3	40-00B		CM4000AE	SOD	DL	LC05	55- 17	113	40-02	CMS	M4002BP	MITJ	DL	LC05	61- 20
4	40-00B	CMS	CD4000AD	RCA	MO	LC05	60- 26	114	40-02	CMS	4002A	Δ	DL	LC05	59- 51
5	40-00B	CMS	CD4000AE	RCA	MO	LC05	60- 27	115	40-02	CMS	883/4002B	SSS	DL	LC05	59- 60
6	40-00B	CMS	CD4000AF	RCA	MO	LC05	60- 2	116	40-02B	CMS	CM4002AD	SOD	DL	LC05	55- 20
7	40-00B	CMS	CD4000BD	RCA	MO	LC05	61- 67	117	40-02B		CM4002AE	SOD	DL	LC05	55- 21
8	40-00B	CMS	CD4000BE	RCA	MO	LC05	61- 68	118	40-02B	CMS	CD4002AE	RCA	MO	LC05	60- 31
9	40-00B	CMS	CD4000BF	RCA	MO	LC05	61- 69	119	40-02B	CMS	CD4002AF	RCA	MO	LC05	60- 8
10	40-00B	CMS	CD4000CJ	NSC	DL	LC05	61- 70	120	40-02B	CMS	CD4002BD	RCA	MO	LC05	59- 63
11	40-00B	CMS	CD4000CN	NSC	DL	LC05	61- 71	121	40-02B	CMS	CD4002BE	RCA	MO	LC05	59- 64
12	40-00B	CMS	CD4000MJ	NSC	DL	LC05	61- 72	122	40-02B	CMS	CD4002BF	RCA	MO	LC05	59- 65
13	40-00B	CMS	CD4000MW	NSC	FL	LC05	61- 73	123	40-02B	CMS	CD4002CJ	NSC	DL	LC05	60- 9
14	40-00B	CMS	CD4000UBD	RCA	MO	LC05	61- 74	124	40-02B	CMS	CD4002CN	NSC	DL	LC05	60- 10
15	40-00B	CMS	CD4000UBE	RCA	MO	LC05	61- 75	125	40-02B	CMS	CD4002MJ	NSC	DL	LC05	60- 11
16	40-00B	CMS	CD4000UBF	RCA	MO	LC05	61- 76	126	40-02B	CMS	CD4002MW	NSC	FL	LC05	60- 12
17	40-00B	CMS	HBC4000AD	SGAI	MO	LC05	60- 33	127	40-02B	CMS	CD4002UBD	RCA	MO	LC05	61- 48
18	40-00B	CMS	HBC4000AF	SGAI	MO	LC05	60- 34	128	40-02B	CMS	CD4002UBE	RCA	MO	LC05	61- 49
19	40-00B	CMS	HBC4000AK	SGAI	MO	LC05	60- 35	129	40-02B	CMS	CD4002UBF	RCA	MO	LC05	61- 50
20	40-00B	CMS	HBF4000AE	SGAI	MO	LC05	60- 45	130	40-02B	CMS	HBC4002AD	SGAI	MO	LC05	60- 39
21	40-00B	CMS	HBF4000AF	SGAI	MO	LC05	60- 46	131	40-02B	CMS	HBC4002AF	SGAI	MO	LC05	60- 40
22	40-00B	CMS	HCC4000BD	SGAI	DL	LC05	61- 79	132	40-02B	CMS	HBC4002AK	SGAI	MO	LC05	60- 41
23	40-00B	CMS	HCC4000BF	SGAI	DL	LC05	61- 80	133	40-02B	CMS	HBF4002AE	SGAI	MO	LC05	60- 49
24	40-00B	CMS	HCC4000BK	SGAI	FL	LC05	61- 81	134	40-02B	CMS	HBF4002AF	SGAI	MO	LC05	60- 50
25	40-00B	CMS	HCF4000BE	SGAI	DL	LC05	61- 82	135	40-02B	CMS	HCC4002BF	SGAI	DL	LC05	60- 98
26	40-00B	CMS	HCF4000BF	SGAI	DL	LC05	61- 83	136	40-02B	CMS	HCC4002BK	SGAI	FL	LC05	60- 99
27	40-00B	CMS	HEF4000	RTCF	DL	LC05	61- 84	137	40-02B	CMS	HCF4002BE	SGAI	DL	LC05	60-105
28	40-00B	CMS	HEF4000B	VALG	DL	LC05	61- 77	138	40-02B	CMS	HCF4002BF	SGAI	DL	LC05	60-106
29	40-00B	CMS	JANM38510/05201ACA	RCA	DL	LC05	58- 94	139	40-02B	CMS	HEF4002	RTCF	DL	LC05	61- 7
30	40-00B	CMS	JANM38510/05201BCA	Δ	DL	LC05	58- 95	140	40-02B	CMS	HEF4002P	Δ	DL	LC05	59- 48
31	40-00B	CMS	JANM38510/05201BCB	Δ	DL	LC05	58- 96	141	40-02B	CMS	JANM38510/05203ACA	RCA	DL	LC05	59- 14
32	40-00B	CMS	JANM38510/05201BCC	SSS	DL	LC05	58- 97	142	40-02B	CMS	JANM38510/05203ADA	RCA	FL	LC05	59- 15
33	40-00B	CMS	JANM38510/05201CCA	RCA	DL	LC05	58- 98	143	40-02B	CMS	JANM38510/05203BAA	NSC	FL	LC05	59- 16
34	40-00B	CMS	JANM38510/05201CCB	RCA	DL	LC05	58- 99	144	40-02B	CMS	JANM38510/05203BAC	NSC	FL	LC05	59- 17
35	40-00B	CMS	MC14000UBAL	MOTA	DL	LC05	61- 88	145	40-02B	CMS	JANM38510/05203BCA	Δ	DL	LC05	59- 18
36	40-00B	CMS	MC14000UBCL	MOTA	DL	LC05	61- 89	146	40-02B	CMS	JANM38510/05203BCB	Δ	DL	LC05	59- 19
37	40-00B	CMS	MC14000UBCP	MOTA	DL	LC05	61- 90	147	40-02B	CMS	JANM38510/05203BCC	SSS	DL	LC05	59- 20
38	40-00B	CMS	SCL4000B	SSS	MO	LC05	61- 78	148	40-02B	CMS	JANM38510/05203BDA	RCA	FL	LC05	59- 21
39	40-00B	CMS	SFF24000AEV	THEF	DL	LC05	60- 18	149	40-02B	CMS	JANM38510/05203CAA	NSC	FL	LC05	59- 22
40	40-00B	CMS	SFF24000AKM	THEF	DL	LC05	60- 19	150	40-02B	CMS	JANM38510/05203CAC	NSC	FL	LC05	59- 23
41	40H000	CMS	TC40H000P	TOSJ	DL	LC05	62- 62	151	40-02B	CMS	JANM38510/05203CCA	NSC	DL	LC05	59- 24
42	40-01	CMS	883/4001B	SSS	MO	LC05	59- 57	152	40-02B	CMS	JANM38510/05203CCB	Δ	DL	LC05	59- 25
43	40-01	CMS	883/4001UB	SSS	MO	LC05	59- 58	153	40-02B	CMS	JANM38510/05203CDA	RCA	DL	LC05	59- 26
44	40-01B		CD4001UBD	RCA	MO	LC05	55- 13	154	40-02B	CMS	MC14002BAL	MOTA	DL	LC05	61- 25
45	40-01B		CD4001UBE	RCA	MO	LC05	55- 14	155	40-02B	CMS	MC14002BCL	MOTA	DL	LC05	61- 26
46	40-01B		CM4001AD	SOD	DL	LC05	55- 18	156	40-02B	CMS	MC14002BCP	MOTA	DL	LC05	61- 27
47	40-01B		CM4001AE	SOD	DL	LC05	55- 19	157	40-02B	CMS	MC14002BUBAL	MOTA	DL	LC05	61- 37
48	40-01B		CD4001AD	RCA	MO	LC05	60- 28	158	40-02B	CMS	MC14002UBCL	MOTA	DL	LC05	61- 38
49	40-01B	CMS	CD4001AE	Δ	MO	LC05	60- 29	159	40-02B	CMS	MM4602AD	NSC	DL	LC05	59- 41
50	40-01B	CMS	CD4001AF	Δ	MO	LC05	60- 3	160	40-02B	CMS	MM4602AF	NSC	DL	LC05	59- 42
51	40-01B	CMS	CD4001BJ	NSC	DL	LC05	60- 86	161	40-02B	CMS	MM5602AN	NSC	DL	LC05	59- 45
52	40-01B	CMS	CD4001BCN	NSC	DL	LC05	60- 87	162	40-02B	CMS	MSM4002	OKIJ	DL	LC05	59- 54
53	40-01B	CMS	CD4001BD	RCA	MO	LC05	61- 54	163	40-02B	CMS	SCL4002B	SSS	MO	LC05	59- 71
54	40-01B	CMS	CD4001BMJ	NSC	DL	LC05	60- 88	164	40-02B	CMS	SFF24002AKM	THEF	DL	LC05	60- 23
55	40-01B	CMS	CD4001BMW	NSC	FL	LC05	60- 89	165	40-02B	CMS	4002BDC	FSC	DL	LC05	60- 71
56	40-01B	CMS	CD4001CJ	NSC	DL	LC05	60- 4	166	40-02B	CMS	4002BDM	FSC	DL	LC05	60- 72
57	40-01B	CMS	CD4001CN	NSC	DL	LC05	60- 5	167	40-02B	CMS	4002BFC	FSC	FL	LC05	60- 73
58	40-01B	CMS	CD4001MJ	NSC	DL	LC05	60- 6	168	40-02B	CMS	4002BFM	FSC	FL	LC05	60- 74
59	40-01B	CMS	CD4001MW	NSC	FL	LC05	60- 7	169	40-02B	CMS	4002BPC	FSC	DL	LC05	60- 75
60	40-01B	CMS	HBC4001AD	SGAI	MO	LC05	60- 36	170	40H002	CMS	TC40H002P	TOSJ	DL	LC05	59- 39
61	40-01B	CMS	HBC4001AF	SGAI	MO	LC05	60- 37	171	40H004	CMS	TC40H004P	TOSJ	DL	LC05	66- 38
62	40-01B	CMS	HBC4001AK	SGAI	MO	LC05	60- 38	172	40-0B	CMS	883/4008B	SSS	MO	LC15	159- 4
63	40-01B	CMS	HBF4001AE	SGAI	MO	LC05	60- 47	173	40-08B	CMS	CD4008AD	RCA	MO	LC15	159- 89
64	40-01B	CMS	HBF4001AF	SGAI	MO	LC05	60- 48	174	40-08B	CMS	CD4008AE	RCA	MO	LC15	159- 99
65	40-01B	CMS	HCC4001BD	SGAI	DL	LC05	60- 94	175	40-08B	CMS	CD4008AF	RCA	MO	LC15	159- 90
66	40-01B	CMS	HCC4001BF	SGAI	DL	LC05	60- 95	176	40-08B	CMS	CD4008BCJ	NSC	DL	LC15	159- 59
67	40-01B	CMS	HCC4001BK	SGAI	FL	LC05	60- 96	177	40-08B	CMS	CD4008BCN	NSC	DL	LC15	159- 60
68	40-01B	CMS	HCF4001BE	SGAI	DL	LC05	60-103	178	40-08B	CMS	CD4008BD	RCA	MO	LC15	159- 66
69	40-01B	CMS	HCF4001BF	SGAI	DL	LC05	60-104	179	40-08B	CMS	CD4008BE	RCA	MO	LC15	159- 67
70	40-01B	CMS	HEF4001	RTCF	DL	LC05	60-109	180	40-08B	CMS	CD4008BF	RCA	MO	LC15	159- 68
71	40-01B	CMS	HEF4001P	Δ	DL	LC05	59- 47	181	40-08B	CMS	CM4008AD	SOD	DL	LC15	159- 91
72	40-01B	CMS	HEF4001U	RTCF	DL	LC05	61- 3	182	40-08B	CMS	CM4008AE	SOD	DL	LC15	159- 100
73	40-01B	CMS	JANM38510/05202ADA	RCA	FL	LC05	59- 2	183	40-08B	CMS	HBC4008AD	SGAI	MO	LC15	159- 92
74	40-01B	CMS	JANM38510/05202BAC	NSC	FL	LC05	59- 4	184	40-08B	CMS	HBC4008AF	SGAI	MO	LC15	159- 93
75	40-01B	CMS	JANM38510/05202BCA	Δ	DL	LC05	59- 5	185	40-08B	CMS	HBC4008AK	SGAI	MO	LC15	159- 94
76	40-01B	CMS	JANM38510/05202BCC	Δ	DL	LC05	59- 6	186	40-08B	CMS	HBF4008AE	SGAI	MO	LC15	159- 101
77	40-01B	CMS	JANM38510/05202BCC	SSS	DL	LC05	59- 7	187	40-08B	CMS	HBF4008AF	SGAI	MO	LC15	159- 102
78	40-01B	CMS	JANM38510/05202BDA	RCA	FL	LC05	59- 8	188	40-08B	CMS	HCC4008BD	SGAI	DL	LC15	159- 69
79	40-01B	CMS	JANM38510/05202CAA	NSC	FL	LC05	59- 9	189	40-08B	CMS	HCC4008BF	SGAI	DL	LC15	159- 70
80	40-01B	CMS	JANM38510/05202CAC	NSC	FL	LC05	59- 10	190	40-08B	CMS	HCC4008BK	SGAI	FL	LC15	159- 71
81	40-01B	CMS	JANM38510/05202CCA	NSC	DL	LC05	59- 11	191	40-08B	CMS	HCF4008BF	SGAI	DL	LC15	159- 73
82	40-01B	CMS	JANM38510/05202CCB	Δ	DL	LC05	59- 12	192	40-08B	CMS	HCF4008BF	SGAI	DL	LC15	159- 49
83	40-01B	CMS	JANM38510/05202CDA	RCA	FL	LC05	59- 13	193	40-08B	CMS	HEF4008	RTCF	DL	LC15	159- 51
84	40-01B	CMS	MC14001BAL	MOTA	DL	LC05	61- 22	194	40-08B	CMS	HEF4008B	VALG	DL	LC15	160- 5
85	40-01B	CMS	MC14001BCL	MOTA	DL	LC05	61- 23	195	40-08B	CMS					

FUNCTIONAL EQUIVALENCE MASTER INDEX

IN ORDER OF: (1)FUNCTIONAL NO. (2) TECH
(3)TYPE NUMBER

LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY G P E	USE CODE	PAGE & LINE	LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY G P E	USE CODE	PAGE & LINE
1	40-11	CMS	883/4093BH	SSS	CH	LC05	63- 90	111	40-12B	CMS	JANM38510/05002CAC	NSC	FL	LC05	62- 47
2	40-11B		CM4011AD	SOD	DL	LC05	55- 29	112	40-12B	CMS	JANM38510/05002CCA	NSC	DL	LC05	62- 48
3	40-11B		CM4011AE	SOD	DL	LC05	55- 30	113	40-12B	CMS	JANM38510/05002CCB	NSC	DL	LC05	62- 49
4	40-11B	CMS	CD4011AD	RCA	MO	LC05	63- 52	114	40-12B	CMS	JANM38510/05002CDA	RCA	FL	LC05	62- 50
5	40-11B	CMS	CD4011AE	Δ	MO	LC05	63- 53	115	40-12B	CMS	MC14012BAL	MOTA	DL	LC05	64- 51
6	40-11B	CMS	CD4011AF	Δ	MO	LC05	63- 31	116	40-12B	CMS	MC14012BCP	MOTA	DL	LC05	64- 52
7	40-11B	CMS	CD4011BCJ	NSC	DL	LC05	64- 1	117	40-12B	CMS	MC14012BCP	MOTA	DL	LC05	64- 53
8	40-11B	CMS	CD4011BCN	NSC	DL	LC05	64- 2	118	40-12B	CMS	MC14012UBCL	MOTA	DL	LC05	64- 78
9	40-11B	CMS	CD4011BD	RCA	MO	LC05	64- 89	119	40-12B	CMS	MC14012UBCP	MOTA	DL	LC05	64- 79
10	40-11B	CMS	CD4011BE	RCA	MO	LC05	64- 90	120	40-12B	CMS	MM4612AD	NSC	FL	LC05	62- 70
11	40-11B	CMS	CD4011BF	RCA	MO	LC05	64- 91	121	40-12B	CMS	MM4612AF	NSC	FL	LC05	62- 71
12	40-11B	CMS	CD4011BMJ	NSC	DL	LC05	64- 3	122	40-12B	CMS	MM5612AN	NSC	DL	LC05	62- 75
13	40-11B	CMS	CD4011BMW	NSC	FL	LC05	64- 4	123	40-12B	CMS	MSM4012	OKIJ	DL	LC05	63- 8
14	40-11B	CMS	CD4011CJ	NSC	DL	LC05	63- 32	124	40-12B	CMS	SCL4012B	THEF	MO	LC05	63- 27
15	40-11B	CMS	CD4011CN	NSC	DL	LC05	63- 33	125	40-12B	CMS	SFF24012AEV	THEF	THEF	LC05	63- 48
16	40-11B	CMS	CD4011MJ	NSC	DL	LC05	63- 34	126	40-12B	CMS	SFF24012AKM	THEF	DL	LC05	63- 49
17	40-11B	CMS	CD4011MW	NSC	FL	LC05	63- 35	127	40-12B	CMS	TC4002BP	TOSJ	DL	LC05	61- 45
18	40-11B	CMS	CD4011UBD	RCA	MO	LC05	64- 66	128	40-12B	CMS	TC4012BP	TOSJ	DL	LC05	64- 85
19	40-11B	CMS	CD4011UBE	RCA	MO	LC05	64- 67	129	40-12B	CMS	4012A	NSC	DL	LC05	63- 5
20	40-11B	CMS	CD4011UBF	RCA	MO	LC05	64- 68	130	40-12B	CMS	4012BDC	FSC	DL	LC05	63- 7
21	40-11B	CMS	HBC4011AD	SGAI	MO	LC05	63- 58	131	40-12B	CMS	4012BDM	FSC	DL	LC05	63- 97
22	40-11B	CMS	HBC4011AF	SGAI	MO	LC05	63- 59	132	40-12B	CMS	4012BFC	FSC	FL	LC05	63- 98
23	40-11B	CMS	HBC4011AK	SGAI	MO	LC05	63- 60	133	40-12B	CMS	4012BFM	FSC	FL	LC05	63- 99
24	40-11B	CMS	HBF4011AE	SGAI	MO	LC05	63- 67	134	40-12B	CMS	4012BPC	FSC	DL	LC05	63- 100
25	40-11B	CMS	HBF4011AF	SGAI	MO	LC05	63- 68	135	40-13	CMS	LC4013B	TSAJ	DL	LC04	36- 70
26	40-11B	CMS	HCC4011BD	SGAI	DL	LC05	64- 9	136	40-13	CMS	883/4013B	NSC	DL	LC04	37- 20
27	40-11B	CMS	HCC4011BF	SGAI	DL	LC05	64- 10	137	40-13B	CMS	CM4013AD	SOD	DL	LC04	34- 21
28	40-11B	CMS	HCC4011BK	SGAI	DL	LC05	64- 11	138	40-13B	CMS	CM4013AE	SOD	DL	LC04	34- 22
29	40-11B	CMS	HCF4011BE	SGAI	DL	LC05	64- 18	139	40-13B	CMS	CD4013AD	RCA	MO	LC04	35- 55
30	40-11B	CMS	HCF4011BF	SGAI	DL	LC05	64- 19	140	40-13B	CMS	CD4013AE	Δ	MO	LC04	35- 56
31	40-11B	CMS	HEF4011	RTCF	DL	LC05	64- 24	141	40-13B	CMS	CD4013AF	Δ	MO	LC04	37- 25
32	40-11B	CMS	HEF4011P	Δ	DL	LC05	62- 77	142	40-13B	CMS	CD4013BCJ	NSC	DL	LC04	35- 69
33	40-11B	CMS	HEF4011U	RTCF	DL	LC05	64- 28	143	40-13B	CMS	CD4013BCN	NSC	DL	LC04	35- 70
34	40-11B	CMS	JANM38510/05001BAA	NSC	FL	LC05	62- 29	144	40-13B	CMS	CD4013BD	RCA	MO	LC04	35- 71
35	40-11B	CMS	JANM38510/05001BAC	NSC	FL	LC05	62- 30	145	40-13B	CMS	CD4013BE	RCA	MO	LC04	35- 72
36	40-11B	CMS	JANM38510/05001BACA	Δ	DL	LC05	62- 31	146	40-13B	CMS	CD4013BMJ	NSC	DL	LC04	35- 74
37	40-11B	CMS	JANM38510/05001BECB	Δ	DL	LC05	62- 32	147	40-13B	CMS	CD4013BMW	NSC	FP	LC04	35- 75
38	40-11B	CMS	JANM38510/05001BCC	SSS	DL	LC05	62- 33	148	40-13B	CMS	HBC4013AD	SGAI	MO	LC04	35- 57
39	40-11B	CMS	JANM38510/05001BDA	RCA	FL	LC05	62- 34	149	40-13B	CMS	HBC4013AF	SGAI	MO	LC04	35- 58
40	40-11B	CMS	JANM38510/05001CAA	NSC	FL	LC05	62- 35	150	40-13B	CMS	HBC4013AK	SGAI	MO	LC04	35- 59
41	40-11B	CMS	JANM38510/05001CAC	NSC	FL	LC05	62- 36	151	40-13B	CMS	HBF4013AE	SGAI	MO	LC04	35- 60
42	40-11B	CMS	JANM38510/05001CCB	Δ	DL	LC05	62- 38	152	40-13B	CMS	HBF4013AF	SGAI	MO	LC04	35- 61
43	40-11B	CMS	JANM38510/05001CDA	RCA	DL	LC05	62- 39	153	40-13B	CMS	HCC4013BD	SGAI	DL	LC04	35- 79
44	40-11B	CMS	MC14011BAL	MOTA	DL	LC04	36- 9	154	40-13B	CMS	HCC4013BF	SGAI	DL	LC04	35- 80
45	40-11B	CMS	MC14011BCL	MOTA	DL	LC05	64- 49	155	40-13B	CMS	HCC4013BK	SGAI	FP	LC04	35- 81
46	40-11B	CMS	MC14011BCP	MOTA	DL	LC05	64- 50	156	40-13B	CMS	HCF4013BE	SGAI	DL	LC04	35- 85
47	40-11B	CMS	MC14011UBAL	MOTA	DL	LC05	64- 75	157	40-13B	CMS	HCF4013BF	SGAI	DL	LC04	35- 86
48	40-11B	CMS	MC14011UBCL	MOTA	DL	LC05	64- 76	158	40-13B	CMS	HEF4013P	Δ	DL	LC04	37- 10
49	40-11B	CMS	MC14011UBCP	MOTA	DL	LC05	64- 77	159	40-13B	CMS	JANM38510/05101BAC	NSC	FP	LC04	36- 77
50	40-11B	CMS	MM4611AD	NSC	DL	LC05	62- 68	160	40-13B	CMS	JANM38510/05101BCA	Δ	DL	LC04	36- 78
51	40-11B	CMS	MM4611AF	NSC	FL	LC05	62- 69	161	40-13B	CMS	JANM38510/05101BCB	Δ	DL	LC04	36- 79
52	40-11B	CMS	MM5611AN	NSC	DL	LC05	62- 74	162	40-13B	CMS	JANM38510/05101BCC	SSS	DL	LC04	36- 80
53	40-11B	CMS	MSM4011	OKIJ	DL	LC05	63- 7	163	40-13B	CMS	JANM38510/05101BDA	RCA	FP	LC04	36- 81
54	40-11B	CMS	MSM500	OKIJ	DL	LC05	62- 20	164	40-13B	CMS	JANM38510/05101CAC	NSC	FP	LC04	36- 82
55	40-11B	CMS	SCL4011B	SSS	MO	LC05	63- 25	165	40-13B	CMS	JANM38510/05101CCA	NSC	DL	LC04	36- 83
56	40-11B	CMS	SCL4011UB	SSS	MO	LC05	63- 26	166	40-13B	CMS	JANM38510/05101CCB	Δ	DL	LC04	36- 84
57	40-11B	CMS	SCL4093BC	SSS	MO	LC05	64- 60	167	40-13B	CMS	JANM38510/05101CDA	RCA	FP	LC04	36- 85
58	40-11B	CMS	SCL4093BD	SSS	DL	LC05	64- 61	168	40-13B	CMS	MC14013BAL	MOTA	DL	LC04	35- 90
59	40-11B	CMS	SCL4093BE	SSS	MO	LC05	64- 62	169	40-13B	CMS	MC14013BCL	MOTA	DL	LC04	35- 91
60	40-11B	CMS	SCL4093BF	SSS	FL	LC05	64- 63	170	40-13B	CMS	MC14013BCP	MOTA	DL	LC04	35- 92
61	40-11B	CMS	SCL4093BH	SSS	CH	LC05	64- 64	171	40-13B	CMS	MM4613AD	NSC	DL	LC04	37- 2
62	40-11B	CMS	SFF24011AEV	THEF	DL	LC05	63- 46	172	40-13B	CMS	MM4613AF	NSC	FP	LC04	37- 3
63	40-11B	CMS	SFF24011AKM	THEF	DL	LC05	63- 47	173	40-13B	CMS	MM5613AN	NSC	DL	LC04	37- 4
64	40-11B	CMS	TC4001BP	TOSJ	DL	LC05	61- 45	174	40-13B	CMS	MSM4013	OKIJ	DL	LC04	37- 13
65	40-11B	CMS	TC4001BUP	TOSJ	DL	LC05	61- 44	175	40-13B	CMS	TC4013BP	TOSJ	DL	LC04	36- 10
66	40-11B	CMS	TC4011BP	TOSJ	DL	LC05	64- 83	176	40-13B	CMS	4013BDC	FSC	DL	LC04	35- 64
67	40-11B	CMS	TC4011BUP	TOSJ	DL	LC05	64- 84	177	40-13B	CMS	4013BDM	FSC	DL	LC04	35- 65
68	40-11B	CMS	4011A	Δ	DL	LC05	63- 4	178	40-13B	CMS	4013BFC	FSC	FP	LC04	35- 66
69	40-11B	CMS	4011BDC	FSC	DL	LC05	63- 91	179	40-13B	CMS	4013BFM	FSC	FP	LC04	35- 67
70	40-11B	CMS	4011BDM	FSC	DL	LC05	63- 92	180	40-13B	CMS	4013BPC	FSC	DL	LC04	35- 68
71	40-11B	CMS	4011BFC	FSC	FL	LC05	63- 93	181	40-17	CMS	M4017BP	MITJ	DL	LC11	136- 91
72	40-11B	CMS	4011BFM	FSC	FL	LC05	63- 94	182	40-17	CMS	883/4017B	NSC	MO	LC11	136- 81
73	40-11B	CMS	4011BPC	FSC	DL	LC05	63- 95	183	40-17B	CMS	CM4017AD	SOD	DL	LC11	129- 18
74	40-11B	CMS	883/4093BE	SSS	MO	LC05	63- 88	184	40-17B	CMS	CM4017AE	SOD	DL	LC11	129- 19
75	40H011	CMS	TC40H011P	TOSJ	DL	LC05	55- 53	185	40-17B	CMS	CD4017AD	RCA	MO	LC11	136- 100
76	40-12	CMS	883/4012												

FUNCTIONAL EQUIVALENCE MASTER INDEX

IN ORDER OF: (1)FUNCTIONAL NO. (2) TECH
(3)TYPE NUMBER

LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE
1	40-17B	CMS	SFF24017AKM	THEF	DL	LC11	135- 91	111	40-20B	CMS	JANM38510/05603AFA	RCA	FP	LC11	131- 32
2	40-17B	CMS	TC4017BP	TOJ	DL	LC11	136- 93	112	40-20B	CMS	JANM38510/05603BEA	RCA	DL	LC11	131- 33
3	40-17B	CMS	4017BDC	FOS	DL	LC11	137- 58	113	40-20B	CMS	JANM38510/05603BEB	RCA	DL	LC11	131- 34
4	40-17B	CMS	4017BDM	FSC	DL	LC11	137- 59	114	40-20B	CMS	JANM38510/05603BFA	RCA	FP	LC11	131- 35
5	40-17B	CMS	4017BFC	FSC	FP	LC11	137- 60	115	40-20B	CMS	JANM38510/05603CEA	RCA	DL	LC11	131- 36
6	40-17B	CMS	4017BFM	FSC	FP	LC11	137- 61	116	40-20B	CMS	JANM38510/05603CEB	RCA	DL	LC11	131- 37
7	40-17B	CMS	4017BPC	FSC	FC	LC11	137- 62	117	40-20B	CMS	JANM38510/05603CFA	RCA	FP	LC11	131- 38
8	40-18	CMS	M4018BP	MITJ	DL	LC11	136- 89	118	40-20B	CMS	MC14020BAL	MOTA	DL	LC11	134- 3
9	40-18	CMS	883/4018B	SSS	MO	LC11	137- 33	119	40-20B	CMS	MC14020BCL	MOTA	DL	LC11	134- 4
10	40-18B	CMS	CM4018AD	SOD	DL	LC11	129- 24	120	40-20B	CMS	MC14020BCP	MOTA	DL	LC11	134- 5
11	40-18B	CMS	CM4018AE	SOD	DL	LC11	129- 25	121	40-20B	CMS	MM4620AD	NSC	DL	LC11	132- 3
12	40-18B	CMS	CD4018AD	RCA	MO	LC11	136-103	122	40-20B	CMS	MM4620AF	NSC	FP	LC11	132- 4
13	40-18B	CMS	CD4018AE	Δ	MO	LC11	136-104	123	40-20B	CMS	MM5620AN	NSC	DL	LC11	132- 5
14	40-18B	CMS	CD4018AF	Δ	MO	LC11	137- 1	124	40-20B	CMS	MSM4020	OKIJ	DL	LC11	133- 65
15	40-18B	CMS	CD4018BCJ	NSC	DL	LC11	137- 2	125	40-20B	CMS	SCL4020B	SSS	DL	LC11	133- 48
16	40-18B	CMS	CD4018BCN	NSC	DL	LC11	137- 3	126	40-20B	CMS	TA6179W	TII	MO	LC11	133- 67
17	40-18B	CMS	CD4018BD	RCA	MO	LC11	137- 93	127	40-20B	CMS	TC4020BP	TOJ	DL	LC11	131- 77
18	40-18B	CMS	CD4018BE	RCA	MO	LC11	137- 94	128	40-20B	CMS	4020BDC	FSC	DL	LC11	134- 9
19	40-18B	CMS	CD4018BF	RCA	MO	LC11	137- 95	129	40-20B	CMS	4020BDM	FSC	DL	LC11	134- 10
20	40-18B	CMS	CD4018BMJ	NSC	DL	LC11	137- 4	130	40-20B	CMS	4020BFC	FSC	FP	LC11	134- 11
21	40-18B	CMS	CD4018BMW	NSC	FP	LC11	137- 5	131	40-20B	CMS	4020BFM	FSC	FP	LC11	134- 12
22	40-18B	CMS	HBC4018AD	SGAI	MO	LC11	137- 15	132	40-20B	CMS	4020BPC	FSC	DL	LC11	134- 13
23	40-18B	CMS	HBC4018AF	SGAI	MO	LC11	137- 16	133	40H020	CMS	TC40H020P	TOJ	DL	LC05	62- 64
24	40-18B	CMS	HBC4018AK	SGAI	MO	LC11	137- 17	134	40H021	CMS	TC40H021P	TOJ	DL	LC05	55- 54
25	40-18B	CMS	HB4018AE	SGAI	MO	LC11	137- 26	135	40-22	CMS	M4022BP	MITJ	DL	LC11	136- 92
26	40-18B	CMS	HB4018AF	SGAI	MO	LC11	137- 27	136	40-22	CMS	883/4022B	SSS	MO	LC11	137- 34
27	40-18B	CMS	HCC4018BD	SGAI	DL	LC11	137- 96	137	40-22B	CMS	CM4022AD	SOD	DL	LC11	129- 26
28	40-18B	CMS	HCC4018BF	SGAI	DL	LC11	137- 97	138	40-22B	CMS	CM4022AE	SOD	DL	LC11	129- 27
29	40-18B	CMS	HCC4018BK	SGAI	FP	LC11	137- 98	139	40-22B	CMS	CD4022AD	RCA	MO	LC11	137- 6
30	40-18B	CMS	HCF4018BE	SGAI	DL	LC11	137- 99	140	40-22B	CMS	CD4022AE	RCA	MO	LC11	137- 7
31	40-18B	CMS	HCF4018BF	SGAI	DL	LC11	137-100	141	40-22B	CMS	CD4022AF	RCA	MO	LC11	137- 8
32	40-18B	CMS	HEF4018	RTCF	DL	LC11	137- 64	142	40-22B	CMS	CD4022BCJ	NSC	DL	LC11	136- 85
33	40-18B	CMS	HEF4018P	RTCF	DL	LC11	137- 67	143	40-22B	CMS	CD4022BCN	NSC	DL	LC11	136- 86
34	40-18B	CMS	JANM38510/05602AEA	RCA	DL	LC11	138- 43	144	40-22B	CMS	CD4022BD	RCA	MO	LC11	137-101
35	40-18B	CMS	JANM38510/05602AFA	RCA	FP	LC11	138- 44	145	40-22B	CMS	CD4022BE	RCA	MO	LC11	137-102
36	40-18B	CMS	JANM38510/05602BEA	RCA	DL	LC11	138- 45	146	40-22B	CMS	CD4022BF	RCA	MO	LC11	137-103
37	40-18B	CMS	JANM38510/05602BEB	RCA	DL	LC11	138- 47	147	40-22B	CMS	CD4022BMJ	NSC	DL	LC11	136- 87
38	40-18B	CMS	JANM38510/05602BFA	RCA	FP	LC11	138- 48	148	40-22B	CMS	CD4022BMW	NSC	FP	LC11	136- 88
39	40-18B	CMS	JANM38510/05602CEA	RCA	DL	LC11	138- 46	149	40-22B	CMS	HBC4022AD	SGAI	MO	LC11	137- 18
40	40-18B	CMS	JANM38510/05602CEB	RCA	DL	LC11	138- 49	150	40-22B	CMS	HBC4022AF	SGAI	MO	LC11	137- 19
41	40-18B	CMS	JANM38510/05602CFA	RCA	FP	LC11	138- 50	151	40-22B	CMS	HBC4022AK	SGAI	MO	LC11	137- 20
42	40-18B	CMS	MC14018BAL	MOTA	DL	LC11	138- 6	152	40-22B	CMS	HB4022AE	SGAI	MO	LC11	137- 28
43	40-18B	CMS	MC14018BCL	MOTA	DL	LC11	138- 7	153	40-22B	CMS	HB4022AF	SGAI	MO	LC11	137- 29
44	40-18B	CMS	MC14018BCP	MOTA	DL	LC11	138- 8	154	40-22B	CMS	HCC4022BD	SGAI	DL	LC11	136- 50
45	40-18B	CMS	SCL4018B	SSS	DL	LC11	136- 75	155	40-22B	CMS	HCC4022BF	SGAI	DL	LC11	136- 51
46	40-18B	CMS	SFF24018AEV	THEF	DL	LC11	138- 51	156	40-22B	CMS	HCC4022BK	SGAI	FP	LC11	136- 52
47	40-18B	CMS	SFF24018AKM	THEF	DL	LC11	138- 52	157	40-22B	CMS	HCF4022BE	SGAI	DL	LC11	136- 55
48	40-18B	CMS	TC4018BP	TOJ	DL	LC11	136- 90	158	40-22B	CMS	HCF4022BF	SGAI	DL	LC11	136- 56
49	40-18B	CMS	4018BDC	FSC	DL	LC11	136- 95	159	40-22B	CMS	HEF4020P	Δ	DL	LC11	134- 19
50	40-18B	CMS	4018BDM	FSC	FP	LC11	136- 96	160	40-22B	CMS	HEF4022	RTCF	DL	LC11	137- 72
51	40-18B	CMS	4018BFC	FSC	FP	LC11	136- 97	161	40-22B	CMS	HEF4022P	Δ	DL	LC11	137- 68
52	40-18B	CMS	4018BFM	FSC	FP	LC11	136- 98	162	40-22B	CMS	JANM38510/05604AEA	RCA	FP	LC11	138- 33
53	40-18B	CMS	4018BPC	FSC	DL	LC11	136- 99	163	40-22B	CMS	JANM38510/05604AFA	RCA	FP	LC11	138- 34
54	40-19	CMS	CD4019BD	RCA	DL	LC05	56- 60	164	40-22B	CMS	JANM38510/05604BEA	SSS	DL	LC11	138- 35
55	40-19	CMS	CD4019BE	RCA	DL	LC05	56- 61	165	40-22B	CMS	JANM38510/05604BEB	Δ	DL	LC11	138- 36
56	40-19	CMS	CD4019BF	RCA	DL	LC05	56- 62	166	40-22B	CMS	JANM38510/05604BEC	SSS	DL	LC11	138- 37
57	40-19	CMS	JANM38510/05302CFA	RCA	FL	LC05	56- 94	167	40-22B	CMS	JANM38510/05604BFA	RCA	FP	LC11	138- 38
58	40-19	CMS	LC4019B	TSAJ	DL	LC05	56- 87	168	40-22B	CMS	JANM38510/05604CEA	none	DL	LC11	138- 39
59	40-19	CMS	MSM4019	OKIJ	DL	LC05	56- 98	169	40-22B	CMS	JANM38510/05604CEB	RCA	DL	LC11	138- 40
60	40-19	CMS	M4019BP	MITJ	DL	LC05	56- 83	170	40-22B	CMS	JANM38510/05604CEC	none	DL	LC11	138- 41
61	40-19	CMS	SCL4019BC	SSS	MO	LC05	56- 48	171	40-22B	CMS	JANM38510/05604CFA	RCA	FP	LC11	138- 42
62	40-19	CMS	SCL4019BD	SSS	MO	LC05	56- 49	172	40-22B	CMS	MC14022BAL	MOTA	DL	LC11	137- 76
63	40-19	CMS	SCL4019BE	SSS	MO	LC05	56- 84	173	40-22B	CMS	MC14022BCL	MOTA	DL	LC11	137- 77
64	40-19	CMS	SCL4019BF	SSS	FL	LC05	56- 50	174	40-22B	CMS	MC14022BCP	MOTA	DL	LC11	137- 78
65	40-19	CMS	SCL4019BH	SSS	CH	LC05	56- 51	175	40-22B	CMS	MM4622AD	NSC	DL	LC11	135- 76
66	40-19	CMS	883/4019BC	SSS	MO	LC05	56- 43	176	40-22B	CMS	MM4622AF	NSC	FP	LC11	135- 77
67	40-19	CMS	883/4019BD	SSS	DL	LC05	56- 44	177	40-22B	CMS	MM5622AN	NSC	DL	LC11	135- 79
68	40-19	CMS	883/4019BE	SSS	MO	LC05	56- 45	178	40-22B	CMS	SCL4022B	SSS	DL	LC11	137- 39
69	40-19	CMS	883/4019BF	SSS	FL	LC05	56- 46	179	40-22B	CMS	TC4022BP	TOJ	DL	LC11	136- 94
70	40-19	CMS	883/4019BH	SSS	CH	LC05	56- 47	180	40-22B	CMS	4022BDC	FSC	DL	LC11	137- 80
71	40-19B	CMS	CM4019AD	SOD	DL	LC05	55- 6	181	40-22B	CMS	4022BDM	FSC	DL	LC11	137- 81
72	40-19B	CMS	CM4019AE	SOD	DL	LC05	55- 7	182	40-22B	CMS	4022BFC	FSC	FP	LC11	137- 82
73	40-19B	CMS	CD4019BC	NSC	DL	LC05	56- 70	183	40-22B	CMS	4022BFM	FSC	FP	LC11	137- 83
74	40-19B	CMS	CD4019BM	NSC	DL	LC05	56- 71	184	40-22B	CMS	4022BPC	FSC	FP	LC11	137- 84
75	40-19B	CMS	HCC4019BD	SGAI	DL	LC05	57- 1	185	40-23	CMS	883/4023B	SSS	MO	LC05	63- 16
76	40-19B	CMS	HCC4019BF	SGAI	FL	LC05	56- 79	186	40-23B	CMS	CM4023AD	SOD	DL	LC05	55- 33
77	40-19B	CMS	HCC4019BK	SGAI	FL	LC05	56- 80	187	40-23B	CMS	CM4023AE	SOD	DL	LC05	55- 34
78	40-19B	CMS	HCF4019BE	SGAI	DL	LC05	56- 81	188	40-23B	CMS	CD4023AD	RCA	MO	LC05	63- 56
79	40-19B	CMS	HCF4019BF	SGAI	DL	LC05	56- 82	189	40-23B	CMS	CD4023AE	RCA	MO	LC05	63- 57
80	40-19B	CMS	JANM38510/05302AFA	RCA	FL	LC05	56- 88	190	40-23B	CMS	CD4023AF	RCA	MO	LC05	63- 41
81	40-19B	CMS	JANM38510/05302BEA	SSS	DL	LC05	56- 89	191	40-23B	CMS	CD4023BCJ	NSC	DL	LC05	64- 6
82	40-19B	CMS	JANM38510/05302BEB	Δ	DL	LC05	56- 90	192	40-23B	CMS	CD4023BCN	NSC	DL	LC05	64- 6
83	40-19B	CMS	JANM38510/05302BEC	SSS	DL	LC05	56- 91	193	40-23B	CMS	CD4023BD	RCA	MO	LC05	63- 22
84	40-19B	CMS	JANM38510/05302BEA	RCA	FL	LC05	56- 92	194	40-23B	CMS	CD4023BE	RCA	MO	LC05	63- 23

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(3)TYPE NUMBER

LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE
1	40-23B	CMS	JANM38510/05003BCA	Δ	DL	LC05	62- 53	111	40-25B	CMS	JANM38510/05204BCA	Δ	DL	LC05	59- 30
2	40-23B	CMS	JANM38510/05003BCB	Δ	DL	LC05	62- 54	112	40-25B	CMS	JANM38510/05204BCB	Δ	DL	LC05	59- 31
3	40-23B	CMS	JANM38510/05003BCC	SSS	DL	LC05	62- 55	113	40-25B	CMS	JANM38510/05204BCC	SSS	DL	LC05	59- 32
4	40-23B	CMS	JANM38510/05003BDA	RCA	FL	LC05	62- 56	114	40-25B	CMS	JANM38510/05204BDA	RCA	FL	LC05	59- 33
5	40-23B	CMS	JANM38510/05003CAA	NSC	FL	LC05	62- 57	115	40-25B	CMS	JANM38510/05204CAC	NSC	FL	LC05	59- 34
6	40-23B	CMS	JANM38510/05003CAC	NSC	FL	LC05	62- 58	116	40-25B	CMS	JANM38510/05204CCA	NSC	FL	LC05	59- 35
7	40-23B	CMS	JANM38510/05003CCA	NSC	DL	LC05	62- 59	117	40-25B	CMS	JANM38510/05204CCB	Δ	DL	LC05	59- 36
8	40-23B	CMS	JANM38510/05003CCB	Δ	DL	LC05	62- 60	118	40-25B	CMS	JANM38510/05204CCD	RCA	DL	LC05	59- 37
9	40-23B	CMS	JANM38510/05003CDA	RCA	FL	LC05	62- 61	119	40-25B	CMS	MC14025BAL	MOTA	DL	LC05	61- 28
10	40-23B	CMS	MB84023B	FCAJ	DL	LC05	63- 82	120	40-25B	CMS	MC14025BCL	MOTA	DL	LC05	61- 29
11	40-23B	CMS	MC14023BAL	MOTA	DL	LC05	64- 54	121	40-25B	CMS	MC14025BCP	MOTA	DL	LC05	61- 30
12	40-23B	CMS	MC14023BCL	MOTA	DL	LC05	64- 55	122	40-25B	CMS	MC14025UBAL	MOTA	DL	LC05	61- 40
13	40-23B	CMS	MC14023BCP	MOTA	DL	LC05	64- 56	123	40-25B	CMS	MC14025UBCL	MOTA	DL	LC05	61- 41
14	40-23B	CMS	MC14023UBAL	MOTA	DL	LC05	64- 80	124	40-25B	CMS	MC14025UBCP	MOTA	DL	LC05	61- 42
15	40-23B	CMS	MC14023UBCL	MOTA	DL	LC05	64- 81	125	40-25B	CMS	MM4625AF	NSC	FL	LC05	59- 44
16	40-23B	CMS	MC14023UBCP	MOTA	DL	LC05	64- 82	126	40-25B	CMS	MM5625AN	NSC	DL	LC05	59- 46
17	40-23B	CMS	MM4623AD	NSC	DL	LC05	62- 72	127	40-25B	CMS	SCL4025B	SSS	MO	LC05	59- 72
18	40-23B	CMS	MM4623AF	NSC	FL	LC05	62- 73	128	40-25B	CMS	SFF24025AEV	THEF	DL	LC05	60- 24
19	40-23B	CMS	MM5623AN	NSC	DL	LC05	62- 76	129	40-25B	CMS	SFF24025AKM	THEF	DL	LC05	60- 25
20	40-23B	CMS	MSM4023	OKUJ	DL	LC05	63- 9	130	40-25B	CMS	TC4025BP	TOJ	DL	LC05	61- 46
21	40-23B	CMS	SCL4023B	SSS	MO	LC05	63- 28	131	40-25B	CMS	4025A	Δ	DL	LC05	59- 52
22	40-23B	CMS	SFF24023AEV	THEF	DL	LC05	63- 50	132	40-25B	CMS	4025BDC	FSC	DL	LC05	60- 76
23	40-23B	CMS	SFF24023AKM	THEF	DL	LC05	63- 51	133	40-25B	CMS	4025BDM	FSC	DL	LC05	60- 77
24	40-23B	CMS	TC4023BP	TOJ	DL	LC05	64- 86	134	40-25B	CMS	4025BFC	FSC	FL	LC05	60- 78
25	40-23B	CMS	4023A	Δ	DL	LC05	63- 6	135	40-25B	CMS	4025BFM	FSC	FL	LC05	60- 79
26	40-23B	CMS	4023BDC	FSC	DL	LC05	63-101	136	40-25B	CMS	4025BPC	FSC	DL	LC05	60- 80
27	40-23B	CMS	4023BDM	FSC	DL	LC05	63-102	137	40-26	CMS	CD4026BH	RCA	CH	LC11	137- 43
28	40-23B	CMS	4023BFC	FSC	FL	LC05	63-103	138	40-26B		CM4026AD	SOD	DL	LC11	129- 20
29	40-23B	CMS	4023BFM	FSC	FL	LC05	63-104	139	40-26B		CM4026AE	SOD	DL	LC11	129- 21
30	40-23B	CMS	4023BPC	FSC	DL	LC05	63-105	140	40-26B	CMS	CD4026AD	RCA	MO	LC11	137- 9
31▼	40-24	CMS	HEF4024BDF	SIC	DL	LC11	134- 40	141	40-26B	CMS	CD4026AE	RCA	MO	LC11	137- 10
32▼	40-24	CMS	HEF4024BPN	SIC	DL	LC11	134- 41	142	40-26B	CMS	CD4026AF	RCA	MO	LC11	137- 11
33▼	40-24	CMS	HEF4024BTD	SIC	FP	LC11	135- 5	143	40-26B	CMS	CD4026BD	RCA	MO	LC11	137- 40
34	40-24B	CMS	883/4024B	SSS	MO	LC11	133- 83	144	40-26B	CMS	CD4026BE	RCA	MO	LC11	137- 41
35	40-24B		CM4024AD	SOD	DL	LC11	129- 12	145	40-26B	CMS	CD4026BF	RCA	MO	LC11	137- 42
36	40-24B		CM4024AE	SOD	DL	LC11	129- 13	146	40-26B	CMS	HBC4026AD	SGAI	MO	LC11	137- 21
37	40-24B	CMS	CD4024AD	RCA	MO	LC11	132-100	147	40-26B	CMS	HBC4026AF	SGAI	MO	LC11	137- 22
38	40-24B	CMS	CD4024AE	RCA	MO	LC11	132-101	148	40-26B	CMS	HBC4026AK	SGAI	MO	LC11	137- 23
39	40-24B	CMS	CD4024AF	RCA	MO	LC11	132-102	149	40-26B	CMS	HB4026AE	SGAI	MO	LC11	137- 30
40	40-24B	CMS	CD4024BCJ	NSC	DL	LC11	132- 53	150	40-26B	CMS	HB4026AF	SGAI	MO	LC11	137- 31
41	40-24B	CMS	CD4024BCN	NSC	DL	LC11	132- 54	151	40-26B	CMS	HCC4026BD	SGAI	DL	LC11	137- 48
42	40-24B	CMS	CD4024BE	RCA	MO	LC11	134- 50	152	40-26B	CMS	HCC4026BF	SGAI	DL	LC11	137- 49
43	40-24B	CMS	CD4024BF	RCA	MO	LC11	134- 51	153	40-26B	CMS	HCC4026BK	SGAI	FP	LC11	137- 50
44	40-24B	CMS	CD4024BMJ	NSC	DL	LC11	132- 55	154	40-26B	CMS	HCF4026BE	SGAI	N	LC11	137- 54
45	40-24B	CMS	CD4024BMW	NSC	FP	LC11	132- 56	155	40-26B	CMS	HCF4026BF	SGAI	DL	LC11	137- 55
46	40-24B	CMS	HBC4024AD	SGAI	MO	LC11	133- 4	156	40-27	CMS	883/4027B	SSS	MO	LC04	35- 33
47	40-24B	CMS	HBC4024AF	SGAI	MO	LC11	133- 5	157	40-27B		CM4027AD	SOD	DL	LC04	34- 2
48	40-24B	CMS	HBC4024AK	SGAI	MO	LC11	133- 6	158	40-27B		CM4027AE	SOD	DL	LC04	34- 3
49	40-24B	CMS	HB4024AE	SGAI	MO	LC11	133- 9	159	40-27B	CMS	CD4027AD	RCA	MO	LC04	34- 39
50	40-24B	CMS	HB4024AF	SGAI	MO	LC11	133- 10	160	40-27B	CMS	CD4027AE	RCA	MO	LC04	34- 40
51	40-24B	CMS	HEF4024	RTCF	DL	LC11	134- 39	161	40-27B	CMS	CD4027AF	RCA	MO	LC04	34- 41
52	40-24B	CMS	HEF4024P	Δ	DL	LC11	134- 82	162	40-27B	CMS	CD4027BCJ	NSC	DL	LC04	34- 64
53	40-24B	CMS	JANM38510/05605ACA	RCA	DL	LC11	131- 44	163	40-27B	CMS	CD4027BCN	NSC	DL	LC04	34- 65
54	40-24B	CMS	JANM38510/05605ADA	RCA	DL	LC11	131- 45	164	40-27B	CMS	CD4027BD	RCA	MO	LC04	34- 66
55	40-24B	CMS	JANM38510/05605BCA	SSS	DL	LC11	131- 46	165	40-27B	CMS	CD4027BE	RCA	MO	LC04	34- 67
56	40-24B	CMS	JANM38510/05605BCB	Δ	DL	LC11	131- 47	166	40-27B	CMS	CD4027BF	RCA	MO	LC04	34- 68
57	40-24B	CMS	JANM38510/05605BCC	SSS	DL	LC11	131- 48	167	40-27B	CMS	CD4027BMJ	NSC	DL	LC04	34- 69
58	40-24B	CMS	JANM38510/05605BDA	RCA	FP	LC11	131- 49	168	40-27B	CMS	CD4027BMW	NSC	FP	LC04	34- 70
59	40-24B	CMS	JANM38510/05605CCA	none	DL	LC11	131- 50	169	40-27B	CMS	HBC4027AD	SGAI	MO	LC04	34- 42
60	40-24B	CMS	JANM38510/05605CCB	RCA	DL	LC11	131- 51	170	40-27B	CMS	HBC4027AF	SGAI	MO	LC04	34- 43
61	40-24B	CMS	JANM38510/05605CCC	none	DL	LC11	131- 52	171	40-27B	CMS	HBC4027AK	SGAI	MO	LC04	34- 44
62	40-24B	CMS	JANM38510/05605CDA	RCA	FP	LC11	131- 53	172	40-27B	CMS	HB4027AE	SGAI	MO	LC04	34- 45
63	40-24B	CMS	MC14024BAL	MOTA	DL	LC11	133-106	173	40-27B	CMS	HB4027AF	SGAI	MO	LC04	34- 46
64	40-24B	CMS	MC14024BCL	MOTA	DL	LC11	133-107	174	40-27B	CMS	HCC4027BD	SGAI	DL	LC04	34- 71
65	40-24B	CMS	MM4624AD	NSC	DL	LC11	132- 74	175	40-27B	CMS	HCC4027BF	SGAI	DL	LC04	34- 72
66	40-24B	CMS	MM4624AF	NSC	FP	LC11	132- 75	176	40-27B	CMS	HCC4027BK	SGAI	FP	LC04	34- 73
67	40-24B	CMS	MM5624AN	NSC	DL	LC11	132- 76	177	40-27B	CMS	HCF4027BE	SGAI	DL	LC04	34- 74
68	40-24B	CMS	SCL4024B	SSS	DL	LC11	133- 49	178	40-27B	CMS	HCF4027BF	SGAI	DL	LC04	34- 75
69	40-24B	CMS	SFF24024AKM	THEF	DL	LC11	133- 11	179	40-27B	CMS	HEF4027P	Δ	DL	LC04	35- 30
70	40-24B	CMS	TC4024BP	TOJ	DL	LC11	131- 78	180	40-27B	CMS	JANM38510/05102BEA	SSS	DL	LC04	35- 13
71	40-24B	CMS	4024BDC	FSC	DL	LC11	134- 31	181	40-27B	CMS	JANM38510/05102BEB	Δ	DL	LC04	35- 14
72	40-24B	CMS	4024BDM	FSC	DL	LC11	134- 32	182	40-27B	CMS	JANM38510/05102BEC	SSS	DL	LC04	35- 15
73	40-24B	CMS	4024BFC	FSC	FP	LC11	134- 33	183	40-27B	CMS	JANM38510/05102BFA	RCA	FP	LC04	35- 16
74	40-24B	CMS	4024BFM	FSC	FP	LC11	134- 34	184	40-27B	CMS	JANM38510/05102BFC	NSC	FP	LC04	35- 18
75	40-24B	CMS	4024BPC	FSC	DL	LC11	134- 35	185	40-27B	CMS	JANM38510/05102CEB	Δ	DL	LC04	35- 19
76	40-25B	MOS	SFF24024AEV	THEF	DL	LC11	139- 55	186	40-27B	CMS	JANM38510/05102CFA	RCA	FP	LC04	35- 20
77	40-25B	CMS	883/4025B	SSS	MO	LC05	59- 59	187	40-27B	CMS	JANM38510/05102CFB	NSC	FP	LC04	35- 21
78	40-25B		CM4025AD	SOD	DL	LC05	55- 22	188	40-27B	CMS	JANM38510/05102CFC	NSC	FP	LC04	35- 22
79	40-25B		CM4025AE	SOD	DL	LC05	55- 23	189	40-27B	CMS	MC14027BAL	MOTA	DL	LC04	34- 77
80	40-25B	CMS	CD4025AD	RCA	MO	LC05	60- 32	190	40-27B	CMS	MC14027BCL	MOTA	DL	LC04	34- 78
81	40-25B	CMS	CD4025AF	RCA	MO	LC05	60- 13	191	40-27B	CMS	MM4627AD	NSC	DL	LC04	35- 27
82	40-25B	CMS	CD4025BCJ	NSC	DL	LC05	60- 90	192	40-27B	CMS	MM4627AF	NSC	FP	LC04	35- 28
83	40-25B	CMS	CD4025BCN	NSC	DL	LC05	60- 91	193	40-27B	CMS	MM5627AN	NSC	DL	LC04	35- 29
84	40-25B	CMS	CD4025BD	RCA	MO	LC05	59- 66	194	40-27B	CMS	MSM4027	OKUJ	DL	LC04	35- 32
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FUNCTIONAL EQUIVALENCE MASTER INDEX

IN ORDER OF: (1)FUNCTIONAL NO. (2) TECH
(3)TYPE NUMBER

LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE
1	40-28B	CMS	HCC4028BF	SGAI	DL	LC06	117- 12	111	40-38B	CMS	CD4038AE	RCA	MO	LC15	159- 15
2	40-28B	CMS	HCC4028BK	SGAI	FL	LC06	117- 13	112	40-38B	CMS	CD4038AF	RCA	MO	LC15	159- 19
3	40-28B	CMS	HCF4028BE	SGAI	DL	LC06	117- 14	113	40-38B	CMS	CD4038BD	RCA	MO	LC15	159- 31
4	40-28B	CMS	HCF4028BF	SGAI	DL	LC06	117- 15	114	40-38B	CMS	CD4038BE	RCA	MO	LC15	159- 32
5	40-28B	CMS	HEF4028	RTCF	DL	LC06	117- 17	115	40-38B	CMS	CD4038BF	RCA	MO	LC15	159- 33
6	40-28B	CMS	HEF4028B	VALG	DL	LC06	117- 18	116	40-38B	CMS	CM4038AE	SOD	DL	LC15	159- 35
7	40-28B	CMS	HEF4028P#1	Δ	DL	LC06	117- 22	117	40-38B	CMS	HBC4038AD	SGAI	DL	LC15	159- 25
8	40-28B	CMS	HEF4028P#2	Δ	DL	LC06	116- 37	118	40-38B	CMS	HBC4038AF	SGAI	DL	LC15	159- 26
9	40-28B	CMS	MC14028BCL	MOTA	DL	LC06	117- 30	119	40-38B	CMS	HBC4038AK	SGAI	DL	LC15	159- 27
10	40-28B	CMS	MC14028BCP	MOTA	DL	LC06	117- 31	120	40-38B	CMS	HBF4038AE	SGAI	DL	LC15	159- 38
11	40-28B	CMS	MSM4028	OKIJ	DL	LC06	117- 35	121	40-38B	CMS	HBF4038AF	SGAI	DL	LC15	159- 39
12	40-28B	CMS	SCL4028B	SSS	DL	LC06	117- 37	122	40-38B	CMS	HCC4038BD	SGAI	DL	LC15	159- 43
13	40-28B	CMS	TC4028BP	TOSJ	DL	LC06	117- 39	123	40-38B	CMS	HCC4038BF	SGAI	DL	LC15	159- 44
14	40-28B	CMS	4028BDC	FSC	DL	LC06	116- 95	124	40-38B	CMS	HCC4038BK	SGAI	FL	LC15	159- 45
15	40-28B	CMS	4028BDM	FSC	DL	LC06	116- 96	125	40-38B	CMS	HCF4038BE	SGAI	DL	LC15	159- 48
16	40-28B	CMS	4028BFC	FSC	FL	LC06	116- 97	126	40-38B	CMS	MC14038BAL	MOTA	DL	LC15	159- 6
17	40-28B	CMS	4028BFM	FSC	FL	LC06	116- 98	127	40-38B	CMS	MC14038BCP	MOTA	DL	LC15	159- 10
18	40-28B	CMS	4028BPC	FSC	DL	LC06	116- 99	128	40-38B	CMS	TC4038BP	TOSJ	DL	LC15	159- 12
19	40-29	CMS	M4029BP	MITJ	DL	LC11	129- 66	129	40-40	CMS	M4040BP	MITJ	DL	LC11	131- 76
20	40-29	CMS	883/4029B	SSS	MO	LC11	133- 71	130	40-40	CMS	883/4040B	SSS	MO	LC11	136- 80
21	40-29B		CM4029AD	SOD	DL	LC11	129- 7	131	40-40B	CMS	CM4040AD	SOD	DL	LC11	129- 14
22	40-29B		CM4029AE	SOD	DL	LC11	129- 8	132	40-40B		CM4040AE	SOD	DL	LC11	129- 15
23	40-29B	CMS	CD4029AD	RCA	MO	LC11	138- 13	133	40-40B	CMS	CD4040AD	RCA	MO	LC11	132- 57
24	40-29B	CMS	CD4029AE	RCA	MO	LC11	138- 14	134	40-40B	CMS	CD4040AE	RCA	MO	LC11	132- 58
25	40-29B	CMS	CD4029AF	RCA	MO	LC11	138- 15	135	40-40B	CMS	CD4040AF	RCA	MO	LC11	132- 59
26	40-29B	CMS	CD4029BCJ	NSC	DL	LC11	138- 9	136	40-40B	CMS	CD4040BCJ	NSC	DL	LC11	132- 60
27	40-29B	CMS	CD4029BCN	NSC	DL	LC11	138- 10	137	40-40B	CMS	CD4040BCN	NSC	DL	LC11	132- 61
28	40-29B	CMS	CD4029BD	RCA	MO	LC11	130- 86	138	40-40B	CMS	CD4040BD	RCA	MO	LC11	134- 52
29	40-29B	CMS	CD4029BE	RCA	MO	LC11	130- 87	139	40-40B	CMS	CD4040BE	RCA	MO	LC11	134- 53
30	40-29B	CMS	CD4029BF	RCA	MO	LC11	130- 88	140	40-40B	CMS	CD4040BF	NSC	DL	LC11	132- 62
31	40-29B	CMS	CD4029BMJ	NSC	DL	LC11	138- 11	141	40-40B	CMS	CD4040BMJ	NSC	DL	LC11	132- 63
32	40-29B	CMS	CD4029BMW	NSC	FP	LC11	138- 12	142	40-40B	CMS	HBC4040AD	SGAI	MO	LC11	132- 68
33	40-29B	CMS	HBC4029AD	SGAI	MO	LC11	138- 16	143	40-40B	CMS	HBC4040AF	SGAI	MO	LC11	132- 69
34	40-29B	CMS	HBC4029AF	SGAI	MO	LC11	138- 17	144	40-40B	CMS	HBC4040AK	SGAI	MO	LC11	132- 70
35	40-29B	CMS	HBC4029AK	SGAI	MO	LC11	138- 18	145	40-40B	CMS	HBF4040AE	SGAI	MO	LC11	132- 71
36	40-29B	CMS	HBF4029AE	SGAI	MO	LC11	138- 19	146	40-40B	CMS	HBF4040AF	SGAI	MO	LC11	132- 72
37	40-29B	CMS	HBF4029AF	SGAI	MO	LC11	138- 20	147	40-40B	CMS	HCC4040BD	SGAI	DL	LC11	134- 65
38	40-29B	CMS	HCC4029BD	SGAI	DL	LC11	130- 89	148	40-40B	CMS	HCC4040BF	SGAI	DL	LC11	134- 66
39	40-29B	CMS	HCC4029BF	SGAI	DL	LC11	130- 90	149	40-40B	CMS	HCC4040BK	SGAI	FL	LC11	134- 67
40	40-29B	CMS	HCC4029BK	SGAI	FP	LC11	130- 91	150	40-40B	CMS	HCF4040BE	SGAI	DL	LC11	134- 75
41	40-29BF	CMS	HCF4029BF	SGAI	DL	LC11	130- 93	151	40-40B	CMS	HCF4040BF	SGAI	DL	LC11	134- 76
42	40-29B	CMS	HEF4029	RTCF	DL	LC11	138- 29	152	40-40B	CMS	HEF4040	RTCF	DL	LC11	134- 42
43	40-29B	CMS	HEF4029B	VALG	DL	LC11	138- 27	153	40-40B	CMS	HEF4040P	Δ	DL	LC11	134- 80
44	40-29B	CMS	HEF4029P	Δ	DL	LC11	138- 28	154	40-40B	CMS	MC14040BAL	MOTA	DL	LC11	134- 6
45	40-29B	CMS	MC14029BAL	MOTA	DL	LC11	130- 83	155	40-40B	CMS	MC14040BCL	MOTA	DL	LC11	134- 7
46	40-29B	CMS	MC14029BCL	MOTA	DL	LC11	130- 84	156	40-40B	CMS	MC14040BCP	MOTA	DL	LC11	134- 8
47	40-29B	CMS	MC14029BCP	MOTA	DL	LC11	130- 85	157	40-40B	CMS	MSM4040	OKIJ	DL	LC11	133- 66
48	40-29B	CMS	SCL4029B	SSS	DL	LC11	138- 26	158	40-40B	CMS	TC4040BP	TOSJ	DL	LC11	131- 79
49	40-29B	CMS	SFF24029AEV	THEF	DL	LC11	135- 36	159	40-40B	CMS	4040BDC	FSC	DL	LC11	134- 14
50	40-29B	CMS	SFF24029AKM	THEF	DL	LC11	135- 37	160	40-40B	CMS	4040BDM	FSC	DL	LC11	134- 15
51	40-29B	CMS	TC4029BP	TOSJ	DL	LC11	130- 82	161	40-40B	CMS	4040BFC	FSC	FP	LC11	134- 16
52	40-29B	CMS	4029BDC	FSC	DL	LC11	138- 21	162	40-40B	CMS	4040BFM	FSC	FP	LC11	134- 17
53	40-29B	CMS	4029BDM	FSC	DL	LC11	138- 22	163	40-40B	CMS	4040BPC	FSC	DL	LC11	134- 18
54	40-29B	CMS	4029BFC	FSC	FP	LC11	138- 23	164	40-42	CMS	883/4042B	SSS	MO	LC26	174- 68
55	40-29B	CMS	4029BFM	FSC	FP	LC11	138- 24	165	40-42B	CMS	CD4042AD	RCA	MO	LC26	175- 46
56	40-29B	CMS	4029BPC	FSC	DL	LC11	138- 25	166	40-42B	CMS	CD4042AE	RCA	MO	LC26	175- 46
57	40-32	CMS	CM4032AD	SOD	DL	LC15	159- 20	167	40-42B	CMS	CD4042AF	RCA	MO	LC26	175- 29
58	40-32	CMS	CM4032AE	SOD	DL	LC15	159- 34	168	40-42B	CMS	CD4042BCJ	NSC	DL	LC26	174- 98
59	40-32	CMS	CM4038AD	SOD	DL	LC15	159- 21	169	40-42B	CMS	CD4042BCN	NSC	DL	LC26	174- 99
60	40-32	CMS	HD14032B	HITJ	DL	LC15	159- 57	170	40-42B	CMS	CD4042BD	RCA	MO	LC26	175- 7
61	40-32	CMS	HD14038B	HITJ	DL	LC15	159- 58	171	40-42B	CMS	CD4042BE	RCA	MO	LC26	175- 8
62	40-32	CMS	MC14038BCL	MOTA	DL	LC15	159- 9	172	40-42B	CMS	CD4042BF	RCA	MO	LC26	175- 9
63	40-32B	CMS	CD4032AD	RCA	MO	LC15	159- 16	173	40-42B	CMS	CD4042BMJ	NSC	DL	LC26	174- 100
64	40-32B	CMS	CD4032AE	RCA	MO	LC15	159- 14	174	40-42B	CMS	CD4042BMW	NSC	FL	LC26	174- 101
65	40-32B	CMS	CD4032AF	RCA	MO	LC15	159- 17	175	40-42B	CMS	HCC4042BD	SGAI	DL	LC26	174- 77
66	40-32B	CMS	CD4032BD	RCA	MO	LC15	159- 28	176	40-42B	CMS	HCC4042BF	SGAI	DL	LC26	174- 78
67	40-32B	CMS	CD4032BE	RCA	MO	LC15	159- 29	177	40-42B	CMS	HCC4042BK	SGAI	DL	LC26	174- 79
68	40-32B	CMS	CD4032BF	RCA	MO	LC15	159- 30	178	40-42B	CMS	HCF4042BE	SGAI	DL	LC26	174- 80
69	40-32B	CMS	CD4038AD	RCA	MO	LC15	159- 18	179	40-42B	CMS	HCF4042BF	SGAI	DL	LC26	174- 81
70	40-32B	CMS	HBC4032AD	SGAI	DL	LC15	159- 22	180	40-42B	CMS	HEF4042	RTCF	DL	LC26	174- 64
71	40-32B	CMS	HBC4032AF	SGAI	DL	LC15	159- 23	181	40-42B	CMS	HEF4042P	RTCF	DL	LC26	175- 6
72	40-32B	CMS	HBC4032AK	SGAI	FL	LC15	159- 24	182	40-42B	CMS	MC14042BAL	MOTA	DL	LC26	174- 102
73	40-32B	CMS	HBF4032AE	SGAI	DL	LC15	159- 36	183	40-42B	CMS	MC14042BCL	MOTA	DL	LC26	174- 103
74	40-32B	CMS	HBF4032AF	SGAI	DL	LC15	159- 37	184	40-42B	CMS	MC14042BCP	MOTA	DL	LC26	174- 104
75	40-32B	CMS	HCC4032BD	SGAI	DL	LC15	159- 40	185	40-42B	CMS	SCL4042B	SSS	DL	LC26	175- 14
76	40-32B	CMS	HCC4032BF	SGAI	DL	LC15	159- 41	186	40-42B	CMS	TC4042BP	TOSJ	DL	LC26	175- 48
77	40-32B	CMS	HCC4032BK	SGAI	FL	LC15	159- 42	187	40-42B	CMS	4042BDC	FSC	DL	LC26	174- 59
78	40-32B	CMS	HCF4032BE	SGAI	DL	LC15	159- 46	188	40-42B	CMS	4042BDM	FSC	DL	LC26	174- 60
79	40-32B	CMS	HCF4032BF	SGAI	DL	LC15	159- 47	189	40-42B	CMS	4042BFC	FSC	FL	LC26	174- 61
80	40-32B	CMS	MC14032BAL	MOTA	DL	LC15	159- 5	190	40-42B	CMS	4042BFM	FSC	FL	LC26	174- 62
81	40-32B	CMS	MC14032BCL	MOTA	DL	LC15	159- 7	191	40-42B	CMS	4042BPC	FSC	DL	LC26	174- 63
82	40-32B	CMS	MC14032BCP	MOTA	DL	LC15	159- 8	192	40H042	CMS	TC40H042P	TOSJ	DL	LC06	117- 38
83	40-32B	CMS	TC4032BP	TOSJ	DL	LC15	159- 11	193	40-43	CMS	883/4043B	SSS	MO	LC26	174- 14
84	40H032	CMS	TC40H032P	TOSJ	DL	LC05	57- 80	194	40-43B	CMS	CD4043AD	RCA	MO	LC26	175- 33
85	40-33		CD4033BH	RCA	CH	LC11	137- 47	195	40-43B	CMS	CD4043AE	RCA	MO	LC26	175- 34
86	40-33B		CM4033AD	S											

FUNCTIONAL EQUIVALENCE MASTER INDEX

IN ORDER OF: (1)FUNCTIONAL NO. (2) TECH
(3)TYPE NUMBER

LINE No.	1			MFR CODE	PT KY GP	USE CODE	PAGE & LINE	LINE No.	2			MFR CODE	PT KY GP	USE CODE	PAGE & LINE
	FUNCTIONAL NUMBER	TECH	TYPE NUMBER						FUNCTIONAL NUMBER	TECH	TYPE NUMBER				
1	40-43B	CMS	TC4043BP	TOSJ	DL	LC26	175- 26	111	40-60B	CMS	CD4060AF	RCA	MO	LC11	131- 84
2	40-43B	CMS	TC4044BP	TOSJ	DL	LC26	175- 27	112	40-60B	CMS	CD4060BCJ	NSC	DL	LC11	132- 14
3	40-43B	CMS	4043BDC	FSC	DL	LC26	174- 46	113	40-60B	CMS	CD4060BCN	NSC	DL	LC11	132- 15
4	40-43B	CMS	4043BDM	FSC	DL	LC26	174- 47	114	40-60B	CMS	CD4060BD	RCA	MO	LC11	134- 55
5	40-43B	CMS	4043BFC	FSC	FL	LC26	174- 48	115	40-60B	CMS	CD4060BE	RCA	MO	LC11	134- 56
6	40-43B	CMS	4043BFM	FSC	FL	LC26	174- 49	116	40-60B	CMS	CD4060BF	RCA	MO	LC11	134- 57
7	40-44	CMS	883/4044B	SSS	MO	LC26	174- 15	117	40-60B	CMS	CD4060BMJ	NSC	DL	LC11	132- 16
8	40-44B	CMS	CD4044AD	RCA	MO	LC26	174- 22	118	40-60B	CMS	CD4060BMW	NSC	FP	LC11	132- 17
9	40-44B	CMS	CD4044AE	RCA	MO	LC26	174- 23	119	40-60B	CMS	HBC4060AD	SGAI	DL	LC11	131- 85
10	40-44B	CMS	CD4044AF	RCA	MO	LC26	174- 24	120	40-60B	CMS	HBC4060AF	SGAI	DL	LC11	131- 86
11	40-44B	CMS	CD4044BD	RCA	MO	LC26	174- 85	121	40-60B	CMS	HBC4060AK	SGAI	FP	LC11	131- 87
12	40-44B	CMS	CD4044BE	RCA	MO	LC26	174- 86	122	40-60B	CMS	HBF4060AE	SGAI	DL	LC11	131- 81
13	40-44B	CMS	CD4044BF	RCA	MO	LC26	174- 87	123	40-60B	CMS	HBF4060AF	SGAI	DL	LC11	131- 82
14	40-44B	CMS	CD4044CJ	NSC	DL	LC26	175- 38	124	40-60B	CMS	HCC4060BD	SGAI	DL	LC11	134- 68
15	40-44B	CMS	CD4044CN	NSC	DL	LC26	175- 39	125	40-60B	CMS	HCC4060BF	SGAI	DL	LC11	134- 69
16	40-44B	CMS	CD4044MJ	NSC	DL	LC26	175- 17	126	40-60B	CMS	HCC4060BK	SGAI	FP	LC11	134- 70
17	40-44B	CMS	CD4044MW	NSC	FL	LC26	175- 18	127	40-60B	CMS	HCF4060BE	SGAI	DL	LC11	134- 77
18	40-44B	CMS	HBC4044AD	SGAI	DL	LC26	175- 22	128	40-60B	CMS	HCF4060BF	SGAI	DL	LC11	134- 78
19	40-44B	CMS	HBC4044AF	SGAI	DL	LC26	175- 23	129	40-63B	CMS	CD4063BD	RCA	MO	LC17	165- 45
20	40-44B	CMS	HBC4044AK	SGAI	FL	LC26	175- 24	130	40-63B	CMS	CD4063BE	RCA	MO	LC17	165- 46
21	40-44B	CMS	HBF4044AE	SGAI	DL	LC26	175- 42	131	40-63B	CMS	CD4063BF	RCA	MO	LC17	165- 47
22	40-44B	CMS	HBF4044AF	SGAI	DL	LC26	175- 43	132	40-63B	CMS	HCC4063BD	SGAI	DL	LC17	165- 48
23	40-44B	CMS	HCC4044BD	SGAI	DL	LC26	174- 91	133	40-63B	CMS	HCC4063BF	SGAI	DL	LC17	165- 49
24	40-44B	CMS	HCC4044BF	SGAI	DL	LC26	174- 92	134	40-63B	CMS	HCC4063BK	SGAI	FL	LC17	165- 50
25	40-44B	CMS	HCC4044BK	SGAI	FL	LC26	174- 93	135	40-63B	CMS	HCF4063BE	SGAI	DL	LC17	165- 51
26	40-44B	CMS	HCF4044BE	SGAI	DL	LC26	174- 96	136	40-63B	CMS	HCF4063BF	SGAI	DL	LC17	165- 52
27	40-44B	CMS	HCF4044BF	SGAI	DL	LC26	174- 97	137	40-63B	CMS	TC4063BP	TOSJ	DL	LC17	165- 58
28	40-44B	CMS	HEF4044	RTCF	DL	LC26	174- 51	138	40-68B	CMS	883/4068B	SSS	MO	LC05	63- 17
29	40-44B	CMS	HEF4044B	VALG	DL	LC26	174- 39	139	40-68B	CMS	CD4068BD	RCA	MO	LC05	64- 97
30	40-44B	CMS	HEF4044P	Δ	DL	LC26	174- 40	140	40-68B	CMS	CD4068BE	RCA	MO	LC05	64- 98
31	40-44B	CMS	MC14044BAL	MOTA	DL	LC26	174- 108	141	40-68B	CMS	CD4068BF	RCA	MO	LC05	64- 99
32	40-44B	CMS	MC14044BCL	MOTA	DL	LC26	174- 109	142	40-68B	CMS	HCC4068BD	SGAI	DL	LC05	63- 73
33	40-44B	CMS	MC14044BCP	MOTA	DL	LC26	175- 1	143	40-68B	CMS	HCC4068BF	SGAI	DL	LC05	63- 74
34	40-44B	CMS	MSM4044	OKIJ	DL	LC26	175- 45	144	40-68B	CMS	HCC4068BK	SGAI	FL	LC05	63- 75
35	40-44B	CMS	SCL4044B	SSS	DL	LC26	175- 50	145	40-68B	CMS	HCF4068BE	SGAI	DL	LC05	63- 76
36	40-44B	CMS	4044BDC	FSC	DL	LC26	174- 41	146	40-68B	CMS	HCF4068BF	SGAI	DL	LC05	63- 77
37	40-44B	CMS	4044BDM	FSC	DL	LC26	174- 42	147	40-68B	CMS	HEF4068	RTCF	DL	LC05	64- 40
38	40-44B	CMS	4044BFC	FSC	FL	LC26	174- 43	148	40-68B	CMS	HEF4068P	Δ	DL	LC05	63- 3
39	40-44B	CMS	4044BFM	FSC	FL	LC26	174- 44	149	40-68B	CMS	MC14068BAL	MOTA	DL	LC05	64- 57
40	40-44B	CMS	4044BPC	FSC	*	LC26	174- 45	150	40-68B	CMS	MC14068BCL	MOTA	DL	LC05	64- 58
41	40-45	CMS	CD4045AD	RCA	MO	LC10	122- 46	151	40-68B	CMS	MC14068BCP	MOTA	DL	LC05	64- 59
42	40-45	CMS	CD4045AE	RCA	MO	LC10	122- 47	152	40-68B	CMS	MSM4068	OKIJ	DL	LC05	63- 10
43	40-45	CMS	CD4045AF	RCA	MO	LC10	122- 48	153	40-68B	CMS	SCL4068B	SSS	DL	LC05	63- 29
44	40-45	CMS	CD4045BD	RCA	MO	LC10	122- 54	154	40-68B	CMS	TC4068BP	TOSJ	DL	LC05	64- 87
45	40-45	CMS	CD4045BE	RCA	MO	LC10	122- 55	155	40-68B	CMS	4068BDC	FSC	DL	LC05	63- 106
46	40-45	CMS	CD4045BF	RCA	MO	LC10	122- 56	156	40-68B	CMS	4068BDM	FSC	DL	LC05	63- 107
47	40-45	CMS	CD4045BH	RCA	MO	LC10	122- 57	157	40-68B	CMS	4068BFC	FSC	FL	LC05	63- 108
48	40-45	CMS	HBC4045AD	SGAI	DL	LC10	122- 49	158	40-68B	CMS	4068BFM	FSC	FL	LC05	63- 109
49	40-45	CMS	HBC4045AF	SGAI	DL	LC10	122- 50	159	40-68B	CMS	4068BPC	FSC	DL	LC05	63- 110
50	40-45	CMS	HBC4045AK	SGAI	FL	LC10	122- 51	160	40-69	CMS	HEF4069UBDF	SIC	DL	LC05	66- 19
51	40-45	CMS	HBF4045AE	SGAI	DL	LC10	122- 52	161	40-69	CMS	HEF4069UBPN	SIC	DL	LC05	66- 20
52	40-45	CMS	HBF4045AF	SGAI	DL	LC10	122- 53	162	40-69	CMS	HEF4069UBTD	SIC	FL	LC05	66- 21
53	40-45	CMS	HCC4045BD	SGAI	* DL	LC11	135- 22	163	40-71	CMS	883/4071B	SSS	MO	LC05	57- 86
54	40-45	CMS	HCC4045BF	SGAI	* DL	LC11	135- 23	164	40-71B	CMS	CD4071BCJ	NSC	DL	LC05	58- 23
55	40-45	CMS	HCC4045BK	SGAI	FP	LC11	135- 24	165	40-71B	CMS	CD4071BCN	NSC	DL	LC05	58- 24
56	40-45	CMS	HCF4045BE	SGAI	* DL	LC11	135- 25	166	40-71B	CMS	CD4071BD	RCA	MO	LC05	58- 25
57	40-45	CMS	HCF4045BF	SGAI	* DL	LC11	135- 26	167	40-71B	CMS	CD4071BE	RCA	MO	LC05	58- 26
58	40-47	CMS	CD4047AD	RCA	DL	LC12	154- 54	168	40-71B	CMS	CD4071BF	RCA	MO	LC05	58- 27
59	40-47	CMS	CD4047AE	RCA	DL	LC12	154- 55	169	40-71B	CMS	CD4071BMJ	NSC	DL	LC05	58- 28
60	40-47	CMS	CD4047AF	RCA	DL	LC12	154- 56	170	40-71B	CMS	CD4071BMW	NSC	FL	LC05	58- 29
61	40-47	CMS	CD4047BCJ	NSC	DL	LC12	154- 24	171	40-71B	CMS	HCC4071BK	SGAI	MO	LC05	57- 95
62	40-47	CMS	CD4047BCN	NSC	DL	LC12	154- 25	172	40-71B	CMS	HCF4071BE	SGAI	MO	LC05	57- 102
63	40-47	CMS	CD4047BE	RCA	DL	LC12	154- 58	173	40-71B	CMS	HCF4071BF	SGAI	MO	LC05	57- 103
64	40-47	CMS	CD4047BF	RCA	DL	LC12	154- 59	174	40-71B	CMS	HEF4071	RTCF	DL	LC05	58- 40
65	40-47	CMS	CD4047BMJ	NSC	DL	LC12	154- 26	175	40-71B	CMS	HEF4071P	Δ	DL	LC05	57- 81
66	40-47	CMS	CD4047BMW	NSC	FL	LC12	154- 27	176	40-71B	CMS	MC14071BAL	MOTA	DL	LC05	58- 59
67	40-47	CMS	HBC4047AD	SGAI	DL	LC12	154- 31	177	40-71B	CMS	MC14071BCL	MOTA	DL	LC05	58- 60
68	40-47	CMS	HBC4047AK	SGAI	MO	LC12	154- 32	178	40-71B	CMS	MC14071BCP	MOTA	DL	LC05	58- 61
69	40-47	CMS	HBF4047AE	SGAI	DL	LC12	154- 33	179	40-71B	CMS	MSM4071	OKIJ	DL	LC05	57- 84
70	40-47	CMS	HCC4047BD	SGAI	DL	LC12	154- 49	180	40-71B	CMS	SCL4071B	SSS	MO	LC05	57- 90
71	40-47	CMS	HCC4047BF	SGAI	DL	LC12	154- 50	181	40-71B	CMS	TC4071BP	TOSJ	DL	LC05	58- 68
72	40-47	CMS	HCC4047BK	SGAI	FL	LC12	154- 51	182	40-71B	CMS	4071BDC	FSC	DL	LC05	58- 8
73	40-47	CMS	HCF4047BE	SGAI	DL	LC12	154- 52	183	40-71B	CMS	4071BDM	FSC	DL	LC05	58- 9
74	40-47	CMS	HCF4047BF	SGAI	DL	LC12	154- 53	184	40-71B	CMS	4071BFC	FSC	FL	LC05	58- 10
75	40-47	CMS	HEF4047B	VALG	DL	LC12	154- 35	185	40-71B	CMS	4071BFM	FSC	FL	LC05	58- 11
76	40-47	CMS	TC4047BP	TOSJ	DL	LC12	154- 36	186	40-71B	CMS	4071BPC	FSC	DL	LC05	58- 12
77	40-47	CMS	4047BDC	FSC	DL	LC12	154- 19	187	40-72	CMS	883/4072B	SSS	MO	LC05	57- 87
78	40-47	CMS	4047BDM	FSC	DL	LC12	154- 20	188	40-72B	CMS	CD4072BD	RCA	MO	LC05	58- 30
79	40-47	CMS	4047BFC	FSC	FL	LC12	154- 21	189	40-72B	CMS	CD4072BE	RCA	MO	LC05	58- 31
80	40-47	CMS	4047BFM	FSC	FL	LC12	154- 22	190	40-72B	CMS	CD4072BF	RCA	MO	LC05	58- 32
81	40-47	CMS	4047BPC	FSC	DL	LC12	154- 23	191	40-72B	CMS	HCC4071BF	SGAI	MO	LC05	57- 94
82	40-47	CMS	883/4047B	SSS	DL	LC12	155- 82	192	40-72B	CMS	HCC4072BD	SGAI	MO	LC05	57- 96
83	40-47B	CMS	SCL4047B	SSS	DL	LC12	154- 68	193	40-72B	CMS	HCF4072BE	SGAI	MO	LC05	57- 104
84	40-48	MOS	CD4048BH	RCA	CH	LC27	182- 100	194	40-72B	CMS	HCF4072BF	SGAI	MO	LC05	57- 105
85	40-48	MOS	HBC4048AD	SGAI	DL	LC27	182- 105	195	40-72B	CMS	HEF4072	RTCF	DL	LC05	58- 44
86	40-48	MOS	HBC4048AF	SGAI	DL	LC27	1								

FUNCTIONAL EQUIVALENCE MASTER INDEX

IN ORDER OF: (1)FUNCTIONAL NO. (2) TECH
(3)TYPE NUMBER

LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE
1	40-73B	CMS	HEF4073B	VALG	DL	LC05	55- 62	111	40-82B	CMS	4082BDC	FSC	DL	LC05	55- 98
2	40-73B	CMS	HEF4073P	PHIN	DL	LC05	55- 63	112	40-82B	CMS	4082BDM	FSC	DL	LC05	55- 99
3	40-73B	CMS	JANM38510/17003BCA	none	DL	LC05	56- 29	113	40-82B	CMS	4082BFC	FSC	FL	LC05	55-100
4	40-73B	CMS	JANM38510/17003BCC	none	DL	LC05	56- 30	114	40-82B	CMS	4082BFM	FSC	FL	LC05	55-101
5	40-73B	CMS	MC14073BAL	MOTA	DL	LC05	56- 37	115	40-82B	CMS	4082BPC	FSC	DL	LC05	55-102
6	40-73B	CMS	MC14073BCL	MOTA	DL	LC05	56- 38	116	40-85	CMS	893/4085B	SSS	MO	LC05	57- 71
7	40-73B	CMS	MC14073BCP	MOTA	DL	LC05	56- 39	117	40-85B	CMS	CD4085BD	RCA	MO	LC05	57- 33
8	40-73B	CMS	SCL4073B	SSS	MO	LC05	55- 64	118	40-85B	CMS	CD4085BE	RCA	MO	LC05	57- 34
9	40-73B	CMS	TC4073BP	TOSJ	DL	LC05	56- 40	119	40-85B	CMS	CD4085BF	RCA	MO	LC05	57- 35
10	40-73B	CMS	4073BDC	FSC	DL	LC05	55- 88	120	40-85B	CMS	HCC4085BD	SGAI	MO	LC05	57- 13
11	40-73B	CMS	4073BDM	FSC	DL	LC05	55- 89	121	40-85B	CMS	HCC4085BF	SGAI	MO	LC05	57- 14
12	40-73B	CMS	4073BPC	FSC	DL	LC05	55- 92	122	40-85B	CMS	HCC4085BK	SGAI	MO	LC05	57- 15
13	40H074	CMS	TC40H074P	TOSJ	DL	LC04	36- 86	123	40-85B	CMS	HCF4085BE	SGAI	MO	LC05	57- 19
14	40-75	CMS	883/4075B	SSS	MO	LC05	57- 88	124	40-85B	CMS	HCF4085BF	SGAI	MO	LC05	57- 20
15	40-75B	CMS	CD4075BCJ	NSC	DL	LC05	58- 33	125	40-85B	CMS	HEF4085	RTCF	DL	LC05	57- 39
16	40-75B	CMS	CD4075BCN	NSC	DL	LC05	58- 34	126	40-85B	CMS	HEF4085P	Δ	DL	LC05	57- 8
17	40-75B	CMS	CD4075BD	RCA	MO	LC05	58- 35	127	40-85B	CMS	MSM4085	OKIJ	DL	LC05	57- 9
18	40-75B	CMS	CD4075BE	RCA	MO	LC05	58- 36	128	40-85B	CMS	SCL4085B	SSS	DL	LC05	56- 52
19	40-75B	CMS	CD4075BF	RCA	MO	LC05	58- 37	129	40-85B	CMS	TC4085BP	TOSJ	DL	LC05	57- 51
20	40-75B	CMS	CD4075BMJ	NSC	DL	LC05	58- 38	130	40-85B	CMS	4085BDC	FSC	DL	LC05	57- 23
21	40-75B	CMS	CD4075BMW	NSC	FL	LC05	58- 39	131	40-85B	CMS	4085BDM	FSC	DL	LC05	57- 24
22	40-75B	CMS	HCC4075BD	SGAI	MO	LC05	57- 99	132	40-85B	CMS	4085BFC	FSC	FL	LC05	57- 25
23	40-75B	CMS	HCC4075BF	SGAI	MO	LC05	57-100	133	40-85B	CMS	4085BFM	FSC	FL	LC05	57- 26
24	40-75B	CMS	HCC4075BK	SGAI	MO	LC05	57-101	134	40-85B	CMS	4085BPC	FSC	DL	LC05	57- 27
25	40-75B	CMS	HCF4075BE	SGAI	MO	LC05	57-106	135	40-86	CMS	883/4086B	SSS	MO	LC05	57- 72
26	40-75B	CMS	HCF4075BF	SGAI	MO	LC05	58- 1	136	40-86B	CMS	CD4086BD	RCA	MO	LC05	57- 36
27	40-75B	CMS	HEF4075	RTCF	DL	LC05	58- 48	137	40-86B	CMS	CD4086BE	RCA	MO	LC05	57- 37
28	40-75B	CMS	HEF4075B	VALG	DL	LC05	57- 89	138	40-86B	CMS	CD4086BF	RCA	MO	LC05	57- 38
29	40-75B	CMS	JANM38510/17103BCA	none	DL	LC05	58- 55	139	40-86B	CMS	HCC4086BD	SGAI	MO	LC05	57- 16
30	40-75B	CMS	JANM38510/17103BCC	none	DL	LC05	58- 56	140	40-86B	CMS	HCC4086BF	SGAI	MO	LC05	57- 17
31	40-75B	CMS	JANM38510/17103CCA	none	DL	LC05	58- 57	141	40-86B	CMS	HCC4086BK	SGAI	MO	LC05	57- 18
32	40-75B	CMS	JANM38510/17103CCC	none	DL	LC05	58- 58	142	40-86B	CMS	HCF4086BE	SGAI	MO	LC05	57- 21
33	40-75B	CMS	MC14075BAL	MOTA	DL	LC05	58- 65	143	40-86B	CMS	HCF4086BF	SGAI	MO	LC05	57- 22
34	40-75B	CMS	MC14075BCL	MOTA	DL	LC05	58- 66	144	40-86B	CMS	HEF4086B	VALG	DL	LC05	57- 11
35	40-75B	CMS	MC14075BCP	MOTA	DL	LC05	58- 67	145	40-86B	CMS	HEF4086P	PHIN	DL	LC05	57- 12
36	40-75B	CMS	MSM4075	OKIJ	DL	LC05	57- 83	146	40-86B	CMS	JANM38510/17202BCA	none	DL	LC05	57- 47
37	40-75B	CMS	SCL4075B	SSS	DL	LC05	57- 92	147	40-86B	CMS	JANM38510/17202BCC	none	DL	LC05	57- 48
38	40-75B	CMS	TC4075BP	TOSJ	DL	LC05	58- 70	148	40-86B	CMS	JANM38510/17202CCA	none	DL	LC05	57- 49
39	40-75B	CMS	4075BDC	FSC	DL	LC05	58- 18	149	40-86B	CMS	JANM38510/17202CCC	none	DL	LC05	57- 50
40	40-75B	CMS	4075BDM	FSC	DL	LC05	58- 19	150	40-86B	CMS	MSM4086	OKIJ	DL	LC05	57- 10
41	40-75B	CMS	4075BFC	FSC	FL	LC05	58- 20	151	40-86B	CMS	SCL4086B	SSS	DL	LC05	56- 53
42	40-75B	CMS	4075BFM	FSC	FL	LC05	58- 21	152	40-86B	CMS	TC4086BP	TOSJ	DL	LC05	57- 52
43	40-75B	CMS	4075BPC	FSC	DL	LC05	58- 22	153	40-86B	CMS	4086BDC	FSC	DL	LC05	57- 28
44	40H076	CMS	TC40H076AP	TOSJ	DL	LC04	35- 23	154	40-86B	CMS	4086BDM	FSC	DL	LC05	57- 29
45	40H076	CMS	TC40H076P	TOSJ	DL	LC04	35- 24	155	40-86B	CMS	4086BFC	FSC	FL	LC05	57- 30
46	40-78	CMS	883/4078B	SSS	MO	LC05	59- 1	156	40-86B	CMS	4086BFM	FSC	FL	LC05	57- 31
47	40-78B	CMS	CD4078BD	RCA	MO	LC05	61- 64	157	40-86B	CMS	4086BPC	FSC	DL	LC05	57- 32
48	40-78B	CMS	CD4078BE	RCA	MO	LC05	61- 65	158	40-86B	CMS	CD4095BD	RCA	MO	LC04	35- 34
49	40-78B	CMS	CD4078BF	RCA	MO	LC05	61- 66	159	40-86B	CMS	CD4095BE	RCA	MO	LC04	35- 35
50	40-78B	CMS	HCC4078BD	SGAI	MO	LC05	60- 53	160	40-86B	CMS	CD4095BF	RCA	MO	LC04	35- 36
51	40-78B	CMS	HCC4078BK	SGAI	MO	LC05	60- 55	161	40-86B	CMS	HCC4095BD	SGAI	MO	LC04	34- 47
52	40-78B	CMS	HCF4078BE	SGAI	MO	LC05	60- 56	162	40-86B	CMS	HCC4095BF	SGAI	MO	LC04	34- 48
53	40-78B	CMS	HCF4078BF	SGAI	MO	LC05	60- 57	163	40-86B	CMS	HCC4095BK	SGAI	MO	LC04	34- 49
54	40-78B	CMS	HEF4078	RTCF	DL	LC05	61- 15	164	40-86B	CMS	HCF4095BE	SGAI	MO	LC04	34- 53
55	40-78B	CMS	HEF4078P	Δ	DL	LC05	59- 50	165	40-86B	CMS	HCF4095BF	SGAI	MO	LC04	34- 54
56	40-78B	CMS	MC14078BAL	MOTA	DL	LC05	61- 31	166	40-86B	CMS	CD4098BD	RCA	MO	LC10	122- 20
57	40-78B	CMS	MC14078BCL	MOTA	DL	LC05	61- 32	167	40-86B	CMS	CD4098BE	RCA	MO	LC10	122- 21
58	40-78B	CMS	MC14078BCP	MOTA	DL	LC05	61- 33	168	40-86B	CMS	CD4098BF	RCA	MO	LC10	122- 22
59	40-78B	CMS	MSM4078	OKIJ	DL	LC05	59- 56	169	40-86B	CMS	HCC4098BD	SGAI	MO	LC10	122- 10
60	40-78B	CMS	SCL4078B	SSS	MO	LC05	59- 73	170	40-86B	CMS	HCC4098BF	SGAI	MO	LC10	122- 11
61	40-78B	CMS	TC4078BP	TOSJ	DL	LC05	61- 47	171	40-86B	CMS	HCC4098BK	SGAI	MO	LC10	122- 12
62	40-78B	CMS	4078BDC	FSC	DL	LC05	60- 81	172	40-86B	CMS	HCF4098BE	SGAI	MO	LC10	122- 13
63	40-78B	CMS	4078BDM	FSC	DL	LC05	60- 82	173	40-86B	CMS	HCF4098BF	SGAI	MO	LC10	122- 14
64	40-78B	CMS	4078BFC	FSC	FL	LC05	60- 83	174	40-86B	CMS	SCL4098B	SSS	MO	LC26	176- 8
65	40-78B	CMS	4078BFM	FSC	FL	LC05	60- 84	175	40-86B	CMS	883/4098B	SSS	MO	LC26	176- 7
66	40-78B	CMS	4078BPC	FSC	DL	LC05	60- 85	176	40-86B	CMS	CD4099BCJ	NSC	DL	LC26	176- 9
67	40-81	CMS	883/4081B	SSS	MO	LC05	55- 60	177	40-86B	CMS	CD4099BCN	NSC	DL	LC26	176- 10
68	40-81B	CMS	CD4081BCJ	NSC	DL	LC05	55-110	178	40-86B	CMS	CD4099BD	RCA	MO	LC26	176- 11
69	40-81B	CMS	CD4081BCN	NSC	DL	LC05	56- 1	179	40-86B	CMS	CD4099BE	RCA	MO	LC26	176- 12
70	40-81B	CMS	CD4081BD	RCA	MO	LC05	56- 2	180	40-86B	CMS	CD4099BF	RCA	MO	LC26	176- 13
71	40-81B	CMS	CD4081BE	RCA	MO	LC05	56- 3	181	40-86B	CMS	CD4099BMJ	NSC	DL	LC26	176- 14
72	40-81B	CMS	CD4081BF	RCA	MO	LC05	56- 4	182	40-86B	CMS	CD4099BMW	NSC	FL	LC26	176- 15
73	40-81B	CMS	CD4081BMJ	NSC	DL	LC05	56- 5	183	40-86B	CMS	HCC4099BD	SGAI	DL	LC26	175-106
74	40-81B	CMS	CD4081BMW	NSC	FL	LC05	56- 6	184	40-86B	CMS	HCC4099BF	SGAI	DL	LC26	175-107
75	40-81B	CMS	HCC4081BD	SGAI	DL	LC05	55- 70	185	40-86B	CMS	HCC4099BK	SGAI	FL	LC26	175-108
76	40-81B	CMS	HCC4081BF	SGAI	DL	LC05	55- 71	186	40-86B	CMS	HCF4099BE	SGAI	DL	LC26	175-109
77	40-81B	CMS	HCC4081BK	SGAI	FL	LC05	55- 72	187	40-86B	CMS	HCF4099BF	SGAI	DL	LC26	175-110
78	40-81B	CMS	HCF4081BE	SGAI	DL	LC05	55- 78	188	40-86B	CMS	MC14099BAL	MOTA	DL	LC26	176- 1
79	40-81B	CMS	HCF4081BF	SGAI	DL	LC05	55- 79	189	40-86B	CMS	MC14099BCL	MOTA	DL	LC26	176- 2
80	40-81B	CMS	HEF4081	RTCF	DL	LC05	56- 14	190	40-86B	CMS	MC14099BCP	MOTA	DL	LC26	176- 3
81	40-81B	CMS	HEF4081P	Δ	DL	LC05	55- 55	191	40-86B	CMS	TC4099BP	TOSJ	DL	LC26	176- 26
82	40-81B	CMS	JANM38510/17001BCA	SSS	DL	LC05	56- 26	192	40-101B	CMS	CD40101BD	RCA	MO	LC25	172- 7
83	40-81B	CMS	MC14081BAL	MOTA	DL	LC05	56- 31	193	40-101B	CMS	CD40101BE	RCA	MO	LC25	172- 8
84	40-81B	CMS	MC14081BCL	MOTA	DL	LC05	56- 32	194	40-101B	CMS	CD40101BF	RCA	MO	LC25	172- 9
85	40-81B	CMS	MC14081BCP	MOTA	DL	LC05	56- 33	195	40-101B	CMS	HCC40101BD	SGAI	DL	LC25	172- 10
86	40-81B	CMS	MSM4081	OKIJ	DL	LC05	55- 57	196							

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IN ORDER OF: (1)FUNCTIONAL NO. (2) TECH
(3)TYPE NUMBER

LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE
1	40-102B	CMS	HCC40102BD	SGAI	DL	LC11	129- 61	111	45-15B	CMS	CD4515BD	RCA	MO	LC06	116- 46
2	40-102B	CMS	HCC40102BF	SGAI	DL	LC11	129- 62	112	45-15B	CMS	CD4515BE	RCA	MO	LC06	116- 47
3	40-102B	CMS	HCC40102BK	SGAI	FP	LC11	129- 63	113	45-15B	CMS	CD4515BF	RCA	MO	LC06	116- 48
4	40-102B	CMS	HC40102BE	SGAI	DL	LC11	129- 64	114	45-15B	CMS	CD4515BM	NSC	DL	LC06	116- 50
5	40-102B	CMS	HC40102BF	SGAI	DL	LC11	129- 65	115	45-15B	CMS	HCC4515BD	SGAI	DL	LC06	116- 59
6	40-107B	CMS	TC40H107AP	TOSJ	DL	LC04	35- 25	116	45-15B	CMS	HC4515BD	SGAI	DL	LC06	116- 68
7	40-107B	CMS	TC40H107P	TOSJ	DL	LC04	35- 26	117	45-15B	CMS	HC4515BE	SGAI	DL	LC06	116- 69
8	40H138	CMS	TC40H138P	TOSJ	DL	LC06	117- 42	118	45-15P	CMS	MC14415EFL	MOTA	DL	LC10	122- 43
9	40H139	CMS	TC40H139P	TOSJ	DL	LC06	116- 91	119	45-15P	CMS	MC14415FLL	MOTA	DL	LC10	122- 44
10	40H155	CMS	TC40H155P	TOSJ	DL	LC06	117- 43	120	45-15P	CMS	MC14415FPP	MOTA	DL	LC10	122- 45
11	40H160	CMS	M40160BP	MITJ	DL	LC11	129- 71	121	45-15P	CMS	MC14415VLL	MOTA	DL	LC10	122- 41
12	40H160	CMS	TC40H160P	TOSJ	DL	LC11	130- 37	122	45-15P	CMS	MC14415VPL	MOTA	DL	LC10	122- 42
13	40H161	CMS	M40161BP	MITJ	DL	LC11	132- 6	123	45-16	CMS	HEF4516	RTCF	DL	LC11	134- 22
14	40H161	CMS	TC40H161P	TOSJ	DL	LC11	133- 68	124	45-16	CMS	M4516BP	MITJ	DL	LC11	131- 88
15	40H162	CMS	M40162BP	MITJ	DL	LC11	129- 72	125	45-16	CMS	883/4516B	SSS	MO	LC11	133- 73
16	40H162	CMS	TC40H162P	TOSJ	DL	LC11	130- 38	126	45-16B	CMS	CD4516BCJ	NSC	DL	LC11	132- 64
17	40H163	CMS	M40163BP	MITJ	DL	LC11	132- 7	127	45-16B	CMS	CD4516BCN	NSC	DL	LC11	132- 65
18	40H163	CMS	TC40H163P	TOSJ	DL	LC11	133- 69	128	45-16B	CMS	CD4516BD	RCA	MO	LC11	135- 42
19	40-172	CMS	MB84072B	FCAJ	DL	LC05	58- 4	129	45-16B	CMS	CD4516BE	RCA	MO	LC11	135- 43
20	40-172	CMS	MB84072BM	FCAJ	DL	LC05	58- 5	130	45-16B	CMS	CD4516BF	RCA	MO	LC11	135- 44
21	40-172	CMS	MSM4072RS	OKIJ	DL	LC05	57- 79	131	45-16B	CMS	CD4516BMJ	NSC	DL	LC11	132- 66
22	40-172	CMS	M4072BP	MITJ	DL	LC05	58- 53	132	45-16B	CMS	CD4516BMW	NSC	FP	LC11	132- 67
23	40-172B	CMS	MC14072BAL	MOTA	DL	LC05	58- 62	133	45-16B	CMS	HCC4516BD	SGAI	DL	LC11	133- 77
24	40-175	CMS	TC40H175P	TOSJ	DL	LC04	36- 87	134	45-16B	CMS	HCC4516BF	SGAI	DL	LC11	133- 78
25	40H192	CMS	TC40H192P	TOSJ	DL	LC11	129-106	135	45-16B	CMS	HCC4516BK	SGAI	FP	LC11	133- 79
26	40H193	CMS	TC40H193P	TOSJ	DL	LC11	132- 80	136	45-16B	CMS	HC4516BE	SGAI	DL	LC11	133- 80
27	40H259	CMS	TC40H259P	TOSJ	DL	LC26	175-101	137	45-16B	CMS	HC4516BF	SGAI	DL	LC11	133- 81
28	40H373	CMS	TC40H373P	TOSJ	DL	LC26	175- 91	138	45-16B	CMS	HEF4516B	VALG	DL	LC11	133-103
29	40H374	CMS	TC40H374P	TOSJ	DL	LC04	37- 1	139	45-16B	CMS	MC14516BAL	MOTA	DL	LC11	135- 39
30	40H375	CMS	TC40H375P	TOSJ	DL	LC26	174- 55	140	45-16B	CMS	MC14516BCL	MOTA	DL	LC11	135- 40
31	40H386	CMS	TC40H386P	TOSJ	DL	LC05	65- 10	141	45-16B	CMS	MC14516BCP	MOTA	DL	LC11	135- 41
32	40H390	CMS	TC40H390P	TOSJ	DL	LC11	130- 71	142	45-16B	CMS	SCL4516B	SSS	DL	LC11	132- 94
33	40H393	CMS	TC40H393P	TOSJ	DL	LC11	134- 20	143	45-16B	CMS	TC4516BP	TOSJ	DL	LC11	135- 38
34	44-02	CMS	883/4402B	SSS	MO	LC05	59- 62	144	45-16B	CMS	4516BDC	FSC	DL	LC11	132- 82
35	44-02B	CMS	SCL4402B	SSS	DL	LC05	60- 1	145	45-16B	CMS	4516BDM	FSC	DL	LC11	132- 83
36	44-04	CMS	883/4404B	SSS	MO	LC11	133- 54	146	45-16B	CMS	4516BFC	FSC	FP	LC11	132- 84
37	44-08	MOS	MC14408L	MOTA	DL	LC27	183- 66	147	45-16B	CMS	4516BFM	FSC	FP	LC11	132- 85
38	44-08	MOS	MC14408P	MOTA	DL	LC27	183- 67	148	45-16B	CMS	4516BPC	FSC	*	LC11	132- 86
39	44-09	MOS	MC14409L	MOTA	DL	LC27	183- 68	149	45-18	CMS	883/4518B	SSS	MO	LC11	130- 20
40	44-09	MOS	MC14409P	MOTA	DL	LC27	183- 69	150	45-18B	CMS	CD4518BCJ	NSC	DL	LC11	129- 75
41	44-11	MOS	MC14411L	MOTA	DL	LC27	182- 33	151	45-18B	CMS	CD4518BCN	NSC	DL	LC11	129- 76
42	44-11	MOS	MC14411P	MOTA	DL	LC27	182- 34	152	45-18B	CMS	CD4518BD	RCA	MO	LC11	130- 21
43	44-12	CMS	883/4412B	SSS	MO	LC05	63- 18	153	45-18B	CMS	CD4518BE	RCA	MO	LC11	130- 22
44	44-12B	CMS	SCL4412B	SSS	DL	LC05	63- 30	154	45-18B	CMS	CD4518BF	RCA	MO	LC11	130- 23
45	44-19P	MOS	MC14419L	MOTA	DL	LC27	184- 94	155	45-18B	CMS	CD4518BMJ	NSC	DL	LC11	129- 77
46	44-19P	MOS	MC14419P	MOTA	DL	LC27	184- 95	156	45-18B	CMS	CD4518BMW	NSC	FP	LC11	129- 78
47	44-28	CMS	883/4428B	SSS	MO	LC06	116- 32	157	45-18B	CMS	HCC4518BD	SGAI	DL	LC11	130- 7
48	44-28B	CMS	SCL4428B	SSS	MO	LC06	116- 38	158	45-18B	CMS	HCC4518BF	SGAI	DL	LC11	130- 8
49	44-90P	MOS	MC14490EFL	MOTA	DL	LC27	183- 70	159	45-18B	CMS	HCC4518BK	SGAI	FP	LC11	130- 9
50	44-90P	MOS	MC14490EVL	MOTA	DL	LC27	183- 71	160	45-18B	CMS	HC4518BE	SGAI	DL	LC11	130- 10
51	44-90P	MOS	MC14490FL	MOTA	DL	LC27	183- 72	161	45-18B	CMS	HC4518BF	SGAI	DL	LC11	130- 11
52	44-90P	MOS	MC14490FP	MOTA	DL	LC27	183- 73	162	45-18B	CMS	HEF4518	RTCF	DL	LC11	130- 31
53	44-90P	MOS	MC14490VL	MOTA	DL	LC27	183- 74	163	45-18B	CMS	HEF4518P	Δ	DL	LC11	130- 34
54	44-90P	MOS	MC14490VP	MOTA	DL	LC27	183- 75	164	45-18B	CMS	MC14518BAL	MOTA	DL	LC11	130- 27
55	45-000	MOS	MC145000	MOTA	DL	LC27	184- 29	165	45-18B	CMS	MC14518BCL	MOTA	DL	LC11	130- 28
56	45-01	CMS	HD14501UB	HITJ	DL	LC05	57- 57	166	45-18B	CMS	MC14518BCP	MOTA	DL	LC11	130- 29
57	45-001	MOS	MC145001	MOTA	DL	LC27	184- 30	167	45-18B	CMS	MSM4518	OKIJ	DL	LC11	130- 30
58	45-01A	CMS	MC14501UBAL	MOTA	DL	LC05	57- 53	168	45-18B	CMS	SCL4518B	SSS	DL	LC11	129-104
59	45-01A	CMS	MC14501UBCL	MOTA	DL	LC05	57- 54	169	45-18B	CMS	TC4518BP	TOSJ	DL	LC11	129- 82
60	45-01A	CMS	MC14501UBCP	MOTA	DL	LC05	57- 55	170	45-18B	CMS	4518BDC	FSC	DL	LC11	129- 29
61	45-06	CMS	HD14506B	HITJ	DL	LC05	56- 56	171	45-18B	CMS	4518BDM	FSC	DL	LC11	129- 30
62	45-06B	CMS	MC14506BAL	MOTA	DL	LC05	65- 82	172	45-18B	CMS	4518BFC	FSC	FP	LC11	129- 31
63	45-06B	CMS	MC14506BCL	MOTA	DL	LC05	65- 83	173	45-18B	CMS	4518BFM	FSC	FP	LC11	129- 32
64	45-06B	CMS	MC14506BCP	MOTA	DL	LC05	65- 84	174	45-18B	CMS	4518BPC	FSC	*	LC11	129- 33
65	45-08	CMS	M4508BP	MITJ	DL	LC26	174- 21	175	45-19B	CMS	CD4519BC	NSC	DL	LC05	56- 85
66	45-08	CMS	883/4508B	SSS	MO	LC26	175- 2	176	45-20	CMS	M4520BP	MITJ	DL	LC11	132- 22
67	45-08B	CMS	CD4508BD	RCA	MO	LC26	174- 74	177	45-20	CMS	883/4520B	SSS	MO	LC11	133- 19
68	45-08B	CMS	CD4508BE	RCA	MO	LC26	174- 75	178	45-20B	CMS	CD4520BCJ	NSC	DL	LC11	132- 18
69	45-08B	CMS	CD4508BF	RCA	MO	LC26	174- 76	179	45-20B	CMS	CD4520BCN	NSC	DL	LC11	132- 19
70	45-08B	CMS	HCC4508BD	SGAI	DL	LC26	174- 30	180	45-20B	CMS	CD4520BD	RCA	MO	LC11	133- 30
71	45-08B	CMS	HCC4508BK	SGAI	FL	LC26	174- 31	181	45-20B	CMS	CD4520BE	RCA	MO	LC11	133- 31
72	45-08B	CMS	HC4508BD	SGAI	DL	LC26	174- 32	182	45-20B	CMS	CD4520BF	RCA	MO	LC11	133- 32
73	45-08B	CMS	HC4508BE	SGAI	MO	LC26	174- 33	183	45-20B	CMS	CD4520BMJ	NSC	DL	LC11	132- 20
74	45-08B	CMS	HEF4508	RTCF	DL	LC26	174- 27	184	45-20B	CMS	CD4520BMW	NSC	FP	LC11	132- 21
75	45-08B	CMS	SCL4508B	SSS	DL	LC26	175- 25	185	45-20B	CMS	HCC4520BD	SGAI	DL	LC11	132- 87
76	45-10	CMS	HEF4510BDF	SIC	DL	LC11	130- 74	186	45-20B	CMS	HCC4520BF	SGAI	DL	LC11	132- 88
77	45-10	CMS	HEF4510BPN	SIC	DL	LC11	130- 75	187	45-20B	CMS	HCC4520BK	SGAI	FP	LC11	132- 89
78	45-10	CMS	HEF4510BTD	SIC	FP	LC11	129- 34	188	45-20B	CMS	HC4520BF	SGAI	DL	LC11	132- 90
79	45-10	CMS	883/4510B	SSS	MO	LC11	130- 41	189	45-20B	CMS	HC4520BF	SGAI	DL	LC11	132- 91
80	45-10B	CMS	CD4510BCJ	NSC	DL	LC11	129- 91	190	45-20B	CMS	HEF4520	M*	DL	LC11	133- 55
81	45-10B	CMS	CD4510BCN	NSC	DL	LC11	129- 92	191	45-20B	CMS	HEF4520P	Δ	DL	LC11	133- 58
82	45-10B	CMS	CD4510BD	RCA	MO	LC11	130-100	192	45-20B	CMS	MC14520BAL	MOTA	DL	LC11	133- 44
83	45-10B	CMS	CD4510BE	RCA	MO	LC11	130-101	193	45-20B	CMS	MC14520BCL	MOTA	DL	LC11	133- 45
84	45-10B	CMS	CD4510BF	RCA	MO	LC11	130-102	194	45-20B	CMS	MC14520BCP	MOTA	DL	LC11	133- 46
85	45-10B	CMS	HCC4510BD	SGAI	DL	LC11	130- 45	195	45-20B	CMS	MSM4520	OKIJ	DL	LC11	133- 47

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IN ORDER OF: (1)FUNCTIONAL NO. (2) TECH
(3)TYPE NUMBER

LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE
1	45-28	CMS	MC14528BCL	MOTA	DL	LC10	122- 28	111	45-55B	CMS	HCC4555BK	SGAI	MO	LC06	116- 62
2	45-28	CMS	MC14528BCP	MOTA	DL	LC10	122- 29	112	45-55B	CMS	HCF4555BE	SGAI	MO	LC06	116- 70
3	45-28	CMS	MC14538BAL	MOTA	DL	LC10	122- 30	113	45-55B	CMS	HCF4555BF	SGAI	MO	LC06	116- 71
4	45-28	CMS	MC14538BCL	MOTA	DL	LC10	122- 31	114	45-55B	CMS	SCL4555B	SSS	DL	LC06	116- 89
5	45-28	CMS	MC14538BCP	MOTA	DL	LC10	122- 32	115	45-60B	CMS	MC14560BAL	MOTA	DL	LC15	159- 88
6	45-28	CMS	M4528BP	MITJ	DL	LC12	155- 87	116	45-60B	CMS	MC14560BCL	MOTA	DL	LC15	160- 1
7	45-28	CMS	M4538BP	MITJ	DL	LC12	155- 88	117	45-60B	CMS	MC14560BCP	MOTA	DL	LC15	160- 2
8	45-28	CMS	TC4528BP	TOSJ	DL	LC10	122- 34	118	45-60B	CMS	TC4560BP	TOSJ	DL	LC15	159- 98
9	45-28	CMS	4528BDC	FSC	DL	LC10	122- 15	119	45-66	MOS	MC14566BAL	MOTA	DL	LC27	182- 35
10	45-28	CMS	4528BDM	FSC	DL	LC10	122- 16	120	45-66	MOS	MC14566BCL	MOTA	DL	LC27	182- 36
11	45-28	CMS	4528BFC	FSC	FL	LC10	122- 17	121	45-66	MOS	MC14566BCP	MOTA	DL	LC27	182- 37
12	45-28	CMS	4528BFM	FSC	FL	LC10	122- 18	122	45-72	MOS	HD14572UB	HITJ	DL	LC27	183- 2
13	45-28	CMS	4528BPC	FSC	LC10	122- 19	123	45-72	MOS	MC14572UBCP	MOTA	DL	LC27	183- 16	
14	45-28	CMS	883/4528B	SSS	DL	LC12	155- 84	124	45-72U	MOS	MC14572UBAL	MOTA	DL	LC27	183- 14
15	45-28	TTL	AM26L02DC	AMD	DL	LC10	125- 37	125	45-72U	MOS	MC14572UBCL	MOTA	DL	LC27	183- 15
16	45-28	TTL	AM26L02DM	AMD	DL	LC10	125- 38	126	45-72U	MOS	TC4572BP	TOSJ	DL	LC27	183- 22
17	45-28	TTL	AM26L02FM	AMD	FL	LC10	125- 39	127	45-85	CMS	883/4585B	SSS	MO	LC17	165- 44
18	45-28	TTL	AM26L02PC	AMD	DL	LC10	125- 40	128	45-85B	CMS	CD4585BD	RCA	MO	LC17	165- 40
19	45-28	TTL	AM26S02DC	AMD	DL	LC10	125- 65	129	45-85B	CMS	CD4585BE	RCA	MO	LC17	165- 41
20	45-28	TTL	AM26S02DM	AMD	DL	LC10	125- 66	130	45-85B	CMS	CD4585BF	RCA	MO	LC17	165- 42
21	45-28	TTL	AM26S02FM	AMD	FL	LC10	125- 67	131	45-85B	CMS	HEF4585	RTCF	FL	LC17	165- 31
22	45-28	TTL	AM26S02PC	AMD	DL	LC10	125- 68	132	45-85B	CMS	MC14585BAL	MOTA	DL	LC17	165- 53
23	45-28	TTL	AM2602DC	AMD	DL	LC10	125- 17	133	45-85B	CMS	MC14585BCL	MOTA	DL	LC17	165- 55
24	45-28	TTL	AM2602DM	AMD	DL	LC10	125- 3	134	45-85B	CMS	MC14585BCP	MOTA	DL	LC17	165- 54
25	45-28	TTL	AM2602FM	AMD	FL	LC10	125- 4	135	45-85B	CMS	SCL4585B	SSS	DL	LC17	165- 56
26	45-28	TTL	AM2602PC	AMD	DL	LC10	125- 18	136	45-85B	CMS	TC4585BP	TOSJ	DL	LC17	165- 60
27	45-28	TTL	DM8602J	NSC	DL	LC10	125- 22	137	45-97B	CMS	MC14597BAL	MOTA	DL	LC26	176- 20
28	45-28	TTL	DM8602N	NSC	DL	LC10	125- 23	138	45-97B	CMS	MC14597BCL	MOTA	DL	LC26	176- 21
29	45-28	TTL	DM8602W	NSC	FL	LC10	125- 24	139	45-97B	CMS	MC14597BCP	MOTA	DL	LC26	176- 22
30	45-28	TTL	DM9602J	NSC	DL	LC10	125- 8	140	45-98B	CMS	MC14598BAL	MOTA	DL	LC26	176- 23
31	45-28	TTL	DM9602N	NSC	DL	LC10	125- 9	141	45-98B	CMS	MC14598BCL	MOTA	DL	LC26	176- 24
32	45-28	TTL	DM9602W	NSC	FL	LC10	125- 10	142	45-98B	CMS	MC14598BCP	MOTA	DL	LC26	176- 25
33	45-28	TTL	JANM38510/01205BEA	none	DL	LC10	126- 29	143	45-99B	CMS	MC14599BAL	MOTA	DL	LC26	176- 4
34	45-28	TTL	JANM38510/01205BEB	MOTA	DL	LC10	126- 30	144	45-99B	CMS	MC14599BCL	MOTA	DL	LC26	176- 5
35	45-28	TTL	JANM38510/01205BFA	none	FL	LC10	126- 31	145	45-99B	CMS	MC14599BCP	MOTA	DL	LC26	176- 6
36	45-28	TTL	JANM38510/01205BFB	MOTA	FL	LC10	126- 32	146	54-00	TTL	S54F00W	Δ	FL	LC05	105- 42
37	45-28	TTL	JANM38510/01205CEA	none	DL	LC10	126- 33	147	54-00W	TTL	DM5400W	NSC	FL	LC05	99- 38
38	45-28	TTL	JANM38510/01205CEB	none	DL	LC10	126- 34	148	54-00W	TTL	JANM38510/00104BAA	NSC	FL	LC05	100- 66
39	45-28	TTL	JANM38510/01205CFA	none	FL	LC10	126- 35	149	54-00W	TTL	JANM38510/00104BAB	Δ	FL	LC05	101- 1
40	45-28	TTL	JANM38510/01205CFB	none	FL	LC10	126- 36	150	54-00W	TTL	JANM38510/00104BAC	Δ	FL	LC05	101- 2
41	45-28	TTL	N9602B	Δ	DL	LC10	124-101	151	54-00W	TTL	JANM38510/00104BDA	NSC	FL	LC05	101- 5
42	45-28	TTL	N9602F	Δ	DL	LC10	124-102	152	54-00W	TTL	JANM38510/00104BDB	Δ	FL	LC05	101- 6
43	45-28	TTL	N9602W	Δ	FL	LC10	124-103	153	54-00W	TTL	JANM38510/00104CAA	NSC	FL	LC05	101- 7
44	45-28	TTL	S9602B	Δ	DL	LC10	124-104	154	54-00W	TTL	JANM38510/00104CAB	FSC	FL	LC05	101- 8
45	45-28	TTL	S9602F	Δ	DL	LC10	124-105	155	54-00W	TTL	JANM38510/00104CAC	Δ	FL	LC05	101- 9
46	45-28	TTL	S9602W	Δ	FL	LC10	124-106	156	54-00W	TTL	JANM38510/00104CDA	NSC	FL	LC05	101- 12
47	45-28	TTL	96LS02DC	FSC	DL	LC10	125- 57	157	54-00W	TTL	JANM38510/00104CDB	NSC	FL	LC05	101- 13
48	45-28	TTL	96LS02DM	FSC	DL	LC10	125- 35	158	54-00W	TTL	JANM38510/02004BAA	NSC	FL	LC05	95- 12
49	45-28	TTL	96LS02FM	FSC	FL	LC10	125- 36	159	54-00W	TTL	JANM38510/02004BAC	NSC	FL	LC05	95- 13
50	45-28	TTL	96LS02PC	FSC	FL	LC10	125- 58	160	54-00W	TTL	JANM38510/02004BDA	NSC	FL	LC05	95- 16
51	45-28	TTL	96L02DC	Δ	DL	LC10	125- 31	161	54-00W	TTL	JANM38510/02004BDB	NSC	FL	LC05	95- 17
52	45-28	TTL	96L02DM	Δ	DL	LC10	125- 32	162	54-00W	TTL	JANM38510/02004CAA	NSC	FL	LC05	95- 18
53	45-28	TTL	96L02FM	Δ	FL	LC10	125- 33	163	54-00W	TTL	JANM38510/02004CAB	NSC	FL	LC05	95- 19
54	45-28	TTL	96L02PC	Δ	FL	LC10	125- 34	164	54-00W	TTL	JANM38510/02004CAD	NSC	FL	LC05	95- 22
55	45-28	TTL	96S02DC	FSC	DL	LC10	125- 59	165	54-00W	TTL	JANM38510/02004CDB	NSC	FL	LC05	95- 23
56	45-28	TTL	96S02PC	FSC	FL	LC10	125- 60	166	54-00W	TTL	JANM38510/02304BAA	none	FL	LC05	102- 15
57	45-28	TTL	9602DC	Δ	DL	LC10	125- 25	167	54-00W	TTL	JANM38510/02304BAB	MOTA	DL	LC05	102- 16
58	45-28	TTL	9602DM	Δ	DL	LC10	126- 59	168	54-00W	TTL	JANM38510/02304BDA	none	FL	LC05	102- 19
59	45-28	TTL	9602FM	Δ	FL	LC10	126- 60	169	54-00W	TTL	JANM38510/02304BDB	none	FL	LC05	102- 20
60	45-28	TTL	9602PC	Δ	FL	LC10	125- 26	170	54-00W	TTL	JANM38510/02304CAA	none	FL	LC05	102- 21
61	45-30	MOS	HD14530B	HITJ	DL	LC27	183- 1	171	54-00W	TTL	JANM38510/02304CAB	none	FL	LC05	102- 22
62	45-30	MOS	TC4530BP	TOSJ	DL	LC27	183- 21	172	54-00W	TTL	JANM38510/02304CDA	none	FL	LC05	102- 25
63	45-30B	MOS	MC14530BAL	MOTA	DL	LC27	183- 11	173	54-00W	TTL	JANM38510/02304CDB	none	FL	LC05	102- 26
64	45-30B	MOS	MC14530BCL	MOTA	DL	LC27	183- 12	174	54-00W	TTL	SFC400LPM	THEF	FL	LC05	105- 96
65	45-30B	MOS	MC14530BCP	MOTA	DL	LC27	183- 13	175	54-00W	TTL	SFC400LPM	THEF	FL	LC05	97- 52
66	45-31	CMS	883/4531B	SSS	MO	LC25	172- 25	176	54-00W	TTL	SFC400PM	THEF	FL	LC05	105-101
67	45-31B	CMS	HEF4531	RTCF	DL	LC25	172- 16	177	54-00W	TTL	SFC401PM	THEF	FL	LC05	106- 8
68	45-31B	CMS	HEF4531B	VALG	DL	LC25	172- 15	178	54-00W	TTL	SN54H00W	TII	MO	LC05	106- 79
69	45-31B	CMS	MC14531BAL	MOTA	DL	LC25	172- 26	179	54-00W	TTL	SN54L00W	TII	FL	LC05	97- 60
70	45-31B	CMS	MC14531BCL	MOTA	DL	LC25	172- 28	180	54-00W	TTL	SN5400W	TII	MO	LC05	108- 3
71	45-31B	CMS	MC14531BCP	MOTA	DL	LC25	172- 29	181	54-00W	TTL	S54H00W	Δ	FL	LC05	105- 48
72	45-31B	CMS	SC531B	FSC	DL	LC25	172- 27	182	54-00W	TTL	S5400W	Δ	FL	LC05	105- 75
73	45-31B	CMS	4531BDC	FSC	DL	LC25	172- 20	183	54-00W	TTL	54H00FM	FSC	FL	LC05	98- 27
74	45-31B	CMS	4531BDM	FSC	DL	LC25	172- 21	184	54-00W	TTL	5400FM	FSC	FL	LC05	98- 99
75	45-31B	CMS	4531BFC	FSC	FL	LC25	172- 22	185	54-00W	TTL	6N12F	TII	FL	LC05	98- 18
76	45-31B	CMS	4531BFM	FSC	FL	LC25	172- 23	186	54S00W	DTL	949FM	FSC	FL	LC05	70- 21
77	45-31B	CMS	4531BPC	FSC	FL	LC25	172- 24	187	54S00W	DTL	JANM38510/07001CDB	none	FP	LC04	52- 32
78	45-34	CMS	HD14534B	HITJ	DL	LC11	129- 33	188	54S00W	DTL	E302D2	SGAI	FL	LC05	69-107
79	45-34B	CMS	HEF4534	RTCF	DL	LC11	136- 29	189	54S00W	DTL	E302D7	SGAI	FL	LC05	69-108
80	45-34B	CMS	MC14534BAL	MOTA	DL	LC11	135- 86	190	54S00W	DTL	JANM38510/03004BAB	FSC	FL	LC05	68- 53
81	45-34B	CMS	MC14534BCL	MOTA	DL	LC11	135- 87	191	54S00W	DTL	JANM38510/03004BAC	FSC	FL	LC05	68- 54
82	45-34B	CMS	MC14534BCP	MOTA	DL	LC11	135- 88	192	54S00W	DTL	JANM38510/03004CAB	FSC	FL	LC05	68- 56
83	45-36	CMS	HD14536B	HITJ	DL	LC10	122- 81	193	54S00W	DTL	JANM38510/03004CAC	FSC	FL	LC05	68- 57
84	45-36B	CMS	CD4536BD	RCA	MO	LC10	122- 82	194	54S00W	DTL	SN15846	TII	FL	LC05	

FUNCTIONAL EQUIVALENCE MASTER INDEX

IN ORDER OF: (1)FUNCTIONAL NO. (2) TECH
(3)TYPE NUMBER

LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE
1	54S00W	TTL	SN54S00W	TII	MO	LC05	106- 93	111	54S03W	TTL	SN54S03W	TII	MO	LC05	106- 95
2	54S00W	TTL	SN54S37W	TII	MO	LC05	106-105	112	54S03W	TTL	SN54S38W	TII	MO	LC05	106-107
3	54S00W	TTL	SN54S37W	TII	MO	LC05	108- 19	113	54S03W	TTL	SN54S03W	TII	MO	LC05	108- 7
4	54S00W	TTL	S54LS00W	Δ	FL	LC05	97- 31	114	54S03W	TTL	SN54S26W	TII	MO	LC05	108- 15
5	54S00W	TTL	S54S00W	Δ	FL	LC05	105- 60	115	54S03W	TTL	SN54S38W	TII	MO	LC05	108- 21
6	54S00W	TTL	S8H80J	Δ	FL	LC05	111- 1	116	54S03W	TTL	S54LS03W	Δ	FL	LC05	97- 35
7	54S00W	TTL	54F00FM	FSC	FL	LC05	98- 21	117	54S03W	TTL	S54LS26W	Δ	FL	LC05	97- 45
8	54S00W	TTL	54LS00FM	FSC	FL	LC05	94- 33	118	54S03W	TTL	S54S03W	Δ	FL	LC05	105- 62
9	54S00W	TTL	54S00FM	FSC	FL	LC05	98- 39	119	54S03W	TTL	S54S03W	Δ	FL	LC05	105- 79
10	54S00W	TTL	5437FM	FSC	FL	LC05	98-107	120	54S03W	TTL	S8481J	Δ	FL	LC05	93- 78
11	54S00W	TTL	9002FM	FSC	FL	LC05	93- 99	121	54S03W	TTL	54LS03FM	FSC	FL	LC05	94- 35
12	54-01W	TTL	DM5401W	NSC	FL	LC05	99- 40	122	54S03W	TTL	5403FM	FSC	FL	LC05	98-103
13	54-01W	TTL	JANM38510/00107BAA	NSC	FL	LC05	101- 16	123	54S03W	TTL	9012FM	FSC	FL	LC05	93-107
14	54-01W	TTL	JANM38510/00107BAB	Δ	FL	LC05	101- 17	124	54-04W	TTL	S5404W	SIC	FL	LC05	115- 64
15	54-01W	TTL	JANM38510/00107BAC	Δ	FL	LC05	101- 18	125	54S04W	TTL	S54LS04W	SIC	FL	LC05	115- 29
16	54-01W	TTL	JANM38510/00107BDA	NSC	FL	LC05	101- 21	126	54S04W	TTL	S54S04W	SIC	FL	LC05	115- 62
17	54-01W	TTL	JANM38510/00107BDB	NSC	FL	LC05	101- 22	127	54S05W	DTL	941FM	FSC	FL	LC10	122- 90
18	54-01W	TTL	JANM38510/00107CAA	NSC	FL	LC05	101- 23	128	54S08	TTL	DM5408W	NSC	FL	LC05	77- 89
19	54-01W	TTL	JANM38510/00107CAB	FSC	FL	LC05	101- 24	129	54S08	TTL	S54F08W	Δ	FL	LC05	80- 12
20	54-01W	TTL	JANM38510/00107CAC	Δ	FL	LC05	101- 25	130	54S08	TTL	S54H08W	Δ	FL	LC05	80- 16
21	54-01W	TTL	JANM38510/00107CDA	NSC	FL	LC05	101- 28	131	54S08W	DTL	MC1906F	MOTA	FL	LC05	66- 68
22	54-01W	TTL	JANM38510/00107CDB	NSC	FL	LC05	101- 29	132	54S08W	DTL	MC1907F	MOTA	FL	LC05	66- 70
23	54-01W	TTL	JANM38510/02306BAA	none	FL	LC05	102- 27	133	54S08W	TTL	DM7819W	NSC	FL	LC05	78- 7
24	54-01W	TTL	JANM38510/02306BAB	MOTA	FL	LC05	102- 28	134	54S08W	TTL	DM8819W	NSC	FL	LC05	78- 10
25	54-01W	TTL	JANM38510/02306BDA	none	FL	LC05	102- 31	135	54S08W	TTL	JANM38510/01601BAA	none	FL	LC05	78- 36
26	54-01W	TTL	JANM38510/02306BDB	none	FL	LC05	102- 32	136	54S08W	TTL	JANM38510/01601BAB	none	FL	LC05	78- 37
27	54-01W	TTL	JANM38510/02306CAA	none	FL	LC05	102- 33	137	54S08W	TTL	JANM38510/01601BDA	NSC	FL	LC05	78- 40
28	54-01W	TTL	JANM38510/02306CAB	none	FL	LC05	102- 34	138	54S08W	TTL	JANM38510/01601BDB	NSC	FL	LC05	78- 41
29	54-01W	TTL	JANM38510/02306CAC	none	FL	LC05	102- 37	139	54S08W	TTL	JANM38510/01601CAA	none	FL	LC05	78- 42
30	54-01W	TTL	JANM38510/02306CDA	none	FL	LC05	102- 38	140	54S08W	TTL	JANM38510/01601CAB	none	FL	LC05	78- 43
31	54-01W	TTL	SFC401HPM	THEF	FL	LC05	106- 3	141	54S08W	TTL	JANM38510/01601CDA	NSC	FL	LC05	78- 46
32	54-01W	TTL	SN54H01W	TII	MO	LC05	106- 81	142	54S08W	TTL	JANM38510/01601CDB	NSC	FL	LC05	78- 47
33	54-01W	TTL	SN54L01W	TII	FL	LC05	94- 30	143	54S08W	TTL	JANM38510/08003BAA	FSC	FL	LC05	79- 8
34	54-01W	TTL	SN5401W	TII	MO	LC05	108- 5	144	54S08W	TTL	JANM38510/08003BAC	FSC	FL	LC05	79- 9
35	54-01W	TTL	S54H01W	Δ	FL	LC05	105- 50	145	54S08W	TTL	JANM38510/08003BDA	none	FL	LC05	79- 12
36	54-01W	TTL	S5401W	Δ	FL	LC05	105- 77	146	54S08W	TTL	JANM38510/08003BDB	SIC	FL	LC05	79- 13
37	54-01W	TTL	S8881J	Δ	FL	LC05	93- 85	147	54S08W	TTL	JANM38510/08003CAB	FSC	FL	LC05	79- 14
38	54-01W	TTL	54H01FM	FSC	FL	LC05	98- 29	148	54S08W	TTL	JANM38510/08003CAC	FSC	FL	LC05	79- 15
39	54-01W	TTL	5401FM	FSC	FL	LC05	98-101	149	54S08W	TTL	JANM38510/08003CDA	none	FL	LC05	79- 18
40	54-01W	TTL	6N128	TII	FL	LC05	110- 67	150	54S08W	TTL	JANM38510/08003CDB	none	FL	LC05	79- 19
41	54LS01W	TTL	SN54LS01W	TII	FL	LC05	97- 70	151	54S08W	TTL	JANM38510/15504BAA	none	FL	LC05	79- 32
42	54LS01W	TTL	S54LS01W	Δ	FL	LC05	97- 33	152	54S08W	TTL	JANM38510/15504BAB	MOTA	FL	LC05	79- 33
43	54-02W	TTL	SN5402W	TII	MO	LC05	92- 97	153	54S08W	TTL	JANM38510/15504CAA	none	FL	LC05	79- 34
44	54-02W	TTL	DM5402W	NSC	FL	LC05	90- 79	154	54S08W	TTL	JANM38510/15504CAB	none	FL	LC05	79- 35
45	54-02W	TTL	JANM38510/00401BAA	NSC	FL	LC05	91- 22	155	54S08W	TTL	JANM38510/31004BAA	none	FL	LC05	77- 4
46	54-02W	TTL	JANM38510/00401BAB	Δ	FL	LC05	91- 23	156	54S08W	TTL	JANM38510/31004BAB	FSC	FL	LC05	77- 5
47	54-02W	TTL	JANM38510/00401BAC	Δ	FL	LC05	91- 24	157	54S08W	TTL	JANM38510/31004BAC	FSC	FL	LC05	77- 6
48	54-02W	TTL	JANM38510/00401BDA	NSC	FL	LC05	91- 27	158	54S08W	TTL	JANM38510/31004BDA	NSC	FL	LC05	77- 9
49	54-02W	TTL	JANM38510/00401BDB	Δ	FL	LC05	91- 28	159	54S08W	TTL	JANM38510/31004BDB	Δ	FL	LC05	77- 10
50	54-02W	TTL	JANM38510/00401CAA	NSC	FL	LC05	91- 29	160	54S08W	TTL	JANM38510/31004BDC	NSC	FL	LC05	77- 11
51	54-02W	TTL	JANM38510/00401CAB	FSC	FL	LC05	91- 30	161	54S08W	TTL	JANM38510/31004CAA	none	FL	LC05	77- 12
52	54-02W	TTL	JANM38510/00401CAC	Δ	FL	LC05	91- 31	162	54S08W	TTL	JANM38510/31004CAB	FSC	FL	LC05	77- 13
53	54-02W	TTL	JANM38510/00401CDA	NSC	FL	LC05	91- 34	163	54S08W	TTL	JANM38510/31004CAC	FSC	FL	LC05	77- 14
54	54-02W	TTL	JANM38510/00401CDB	NSC	FL	LC05	91- 35	164	54S08W	TTL	JANM38510/31004CDA	NSC	FL	LC05	77- 17
55	54-02W	TTL	JANM38510/02701BDA	NSC	FL	LC05	89- 93	165	54S08W	TTL	JANM38510/31004CDB	NSC	FL	LC05	77- 18
56	54-02W	TTL	JANM38510/02701BDB	NSC	FL	LC05	89- 94	166	54S08W	TTL	JANM38510/31004CDC	NSC	FL	LC05	77- 19
57	54-02W	TTL	JANM38510/02701CDA	NSC	FL	LC05	89- 97	167	54S08W	TTL	SFC408P	THEF	FL	LC05	80- 41
58	54-02W	TTL	JANM38510/02701CDB	NSC	FL	LC05	89- 98	168	54S08W	TTL	SFC408PM	THEF	FL	LC05	80- 42
59	54-02W	TTL	SFC402P	THEF	FL	LC05	92- 56	169	54S08W	TTL	SN54LS08W	TII	FL	LC05	77- 31
60	54-02W	TTL	SFC402PM	THEF	FL	LC05	92- 57	170	54S08W	TTL	SN54S08W	TII	MO	LC05	80- 77
61	54-02W	TTL	SN54L02W	TII	FL	LC05	90- 38	171	54S08W	TTL	SN5408W	TII	MO	LC05	110- 76
62	54-02W	TTL	S5402W	Δ	FL	LC05	92- 45	172	54S08W	TTL	S54LS08W	Δ	FL	LC05	77- 21
63	54-02W	TTL	5402FM	FSC	FL	LC05	90- 65	173	54S08W	TTL	S54S08W	Δ	FL	LC05	80- 22
64	54S02W	TTL	S54F02W	SIC	FL	LC05	92- 39	174	54S08W	TTL	S5408W	Δ	FL	LC05	80- 30
65	54S02W	TTL	JANM38510/07301BDA	none	FL	LC05	91- 64	175	54S08W	TTL	54F08FM	FSC	FL	LC05	77- 46
66	54S02W	TTL	JANM38510/07301BDB	SIC	FL	LC05	91- 65	176	54S08W	TTL	54H08FM	FSC	FL	LC05	75-101
67	54S02W	TTL	JANM38510/07301CCA	none	FL	LC05	92- 1	177	54S08W	TTL	54LS08FM	FSC	FL	LC05	76- 7
68	54S02W	TTL	JANM38510/07301CDA	none	FL	LC05	92- 3	178	54S08W	TTL	5408FM	FSC	FL	LC05	77- 74
69	54S02W	TTL	JANM38510/07301CDB	none	FL	LC05	92- 4	179	54S09W	TTL	SFC409PM	THEF	FL	LC05	80- 48
70	54S02W	TTL	JANM38510/30301BAA	none	FL	LC05	89- 99	180	54S09W	TTL	DM5409W	NSC	FL	LC05	77- 91
71	54S02W	TTL	JANM38510/30301BAB	FSC	FL	LC05	89-100	181	54S09W	TTL	DS7819W	NSC	FL	LC05	78- 12
72	54S02W	TTL	JANM38510/30301BAC	FSC	FL	LC05	90- 1	182	54S09W	TTL	JANM38510/01602BAA	none	FL	LC05	78- 48
73	54S02W	TTL	JANM38510/30301BDA	Δ	FL	LC05	90- 5	183	54S09W	TTL	JANM38510/01602BAB	MOTA	FL	LC05	78- 49
74	54S02W	TTL	JANM38510/30301BDB	Δ	FL	LC05	90- 6	184	54S09W	TTL	JANM38510/01602BDA	none	FL	LC05	78- 52
75	54S02W	TTL	JANM38510/30301CAA	none	FL	LC05	90- 7	185	54S09W	TTL	JANM38510/01602BDB	SIC	FL	LC05	78- 53
76	54S02W	TTL	JANM38510/30301CAB	FSC	FL	LC05	90- 8	186	54S09W	TTL	JANM38510/01602CAA	none	FL	LC05	78- 54
77	54S02W	TTL	JANM38510/30301CAC	FSC	FL	LC05	90- 9	187	54S09W	TTL	JANM38510/01602CAB	none	FL	LC05	78- 55
78	54S02W	TTL	JANM38510/30301CDA	NSC	FL	LC05	90- 13	188	54S09W	TTL	JANM38510/01602CDB	none	FL	LC05	78- 58
79	54S02W	TTL	JANM38510/30301CDB	NSC	FL	LC05	90- 14	189	54S09W	TTL	JANM38510/01602CDB	none	FL	LC05	78- 59
80	54S02W	TTL	MC3102F	MOTA	FL	LC05	93- 37	190	54S09W	TTL	MC3101F	MOTA	FL	LC05	81- 28
81	54S02W	TTL	SN54LS02W	TII	FL	LC05	90- 40	191	54S09W	TTL	SFC409P	THEF	FL	LC05	80- 47
82	54S02W	TTL	SN54LS28W	TII	FL	LC05	90- 44	192</							

FUNCTIONAL EQUIVALENCE MASTER INDEX

IN ORDER OF: (1)FUNCTIONAL NO. (2) TECH
(3)TYPE NUMBER

LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	
1	54-10W	TTL	JANM38510/02003CDB	NSC	FL	LC05	95- 11	111	54-12W	TTL	SN7412W	TII	MO	LC05	108- 34	
2	54-10W	TTL	JANM38510/02303BAA	none	FL	LC05	102- 3	112	54-12W	TTL	S54LS12W	Δ	FL	LC05	97- 39	
3	54-10W	TTL	JANM38510/02303BAB	MOTA	FL	LC05	102- 4	113	54-12W	TTL	S5412W	Δ	FL	LC05	105- 83	
4	54-10W	TTL	JANM38510/02303BDA	none	FL	LC05	102- 7	114	54-12W	TTL	S8471J	Δ	FL	LC05	93- 75	
5	54-10W	TTL	JANM38510/02303BDB	none	FL	LC05	102- 8	115	54-12W	TTL	5412FM	Δ	FSC	FL	LC05	94- 17
6	54-10W	TTL	JANM38510/02303CAA	none	FL	LC05	102- 9	116	54-13W	TTL	JANM38510/07006BAB	FSC	FL	LC05	103- 24	
7	54-10W	TTL	JANM38510/02303CAB	none	FL	LC05	102- 10	117	54-13W	TTL	JANM38510/07006BAC	FSC	FL	LC05	103- 25	
8	54-10W	TTL	JANM38510/02303CDA	none	FL	LC05	102- 13	118	54-13W	TTL	JANM38510/07006BDA	none	FL	LC05	103- 28	
9	54-10W	TTL	JANM38510/02303CDB	none	FL	LC05	102- 14	119	54-13W	TTL	JANM38510/07006BDB	none	FL	LC05	103- 29	
10	54-10W	TTL	SFC410HP	THEF	FL	LC05	106- 18	120	54-13W	TTL	JANM38510/07006CAB	FSC	FL	LC05	103- 30	
11	54-10W	TTL	SFC410HPM	THEF	FL	LC05	106- 19	121	54-13W	TTL	JANM38510/07006CAC	FSC	FL	LC05	103- 31	
12	54-10W	TTL	SFC411HP	THEF	FL	LC05	80- 51	122	54-13W	TTL	JANM38510/07006CDA	none	FL	LC05	103- 34	
13	54-10W	TTL	SFC411HPM	THEF	FL	LC05	80- 52	123	54-13W	TTL	JANM38510/07006CDB	none	FL	LC05	103- 35	
14	54-10W	TTL	SN54H10W	TII	MO	LC05	106- 83	124	54-13W	TTL	JANM38510/30007BAA	NSC	FL	LC05	96- 35	
15	54-10W	TTL	SN54L10W	TII	FL	LC05	97- 62	125	54-13W	TTL	JANM38510/30007BAB	FSC	FL	LC05	96- 36	
16	54-10W	TTL	SN5410W	TII	MO	LC05	108- 9	126	54-13W	TTL	JANM38510/30007BAC	FSC	FL	LC05	96- 37	
17	54-10W	TTL	S54H10W	Δ	FL	LC05	105- 52	127	54-13W	TTL	JANM38510/30007BDA	NSC	FL	LC05	96- 40	
18	54-10W	TTL	S5410W	Δ	FL	LC05	105- 81	128	54-13W	TTL	JANM38510/30007BDB	Δ	FL	LC05	96- 41	
19	54-10W	TTL	54H10FM	FSC	FL	LC05	98- 31	129	54-13W	TTL	JANM38510/30007BDC	NSC	FL	LC05	96- 42	
20	54-10W	TTL	6N129	TII	FL	LC05	110- 68	130	54-13W	TTL	JANM38510/30007CAA	NSC	FL	LC05	96- 43	
21	54S10W	DTL	E303D2	SGAI	FL	LC05	70- 1	131	54-13W	TTL	JANM38510/30007CAB	FSC	FL	LC05	96- 44	
22	54S10W	DTL	E303D7	SGAI	FL	LC05	70- 2	132	54-13W	TTL	JANM38510/30007CAC	FSC	FL	LC05	96- 45	
23	54S10W	DTL	JANM38510/03005BAB	FSC	FL	LC05	68- 59	133	54-13W	TTL	JANM38510/30007CDA	NSC	FL	LC05	96- 48	
24	54S10W	DTL	JANM38510/03005BAC	FSC	FL	LC05	68- 60	134	54-13W	TTL	JANM38510/30007CDB	NSC	FL	LC05	96- 49	
25	54S10W	DTL	JANM38510/03005CAB	FSC	FL	LC05	68- 62	135	54-13W	TTL	JANM38510/30007CDC	NSC	FL	LC05	96- 50	
26	54S10W	DTL	JANM38510/03005CAC	FSC	FL	LC05	68- 63	136	54-13W	TTL	N8H16J	Δ	FL	LC05	110- 97	
27	54S10W	DTL	SN15863FR	TII	FL	LC05	68- 71	137	54-13W	TTL	SN54L540W	Δ	TII	FL	LC05	98- 9
28	54S10W	DTL	SN15963FR	TII	FL	LC05	68- 85	138	54-13W	TTL	SN54S140W	TII	MO	LC05	107- 8	
29	54S10W	DTL	962FM	FSC	FL	LC05	68- 21	139	54-13W	TTL	SN54S20W	TII	MO	LC05	106- 99	
30	54S10W	DTL	9962FC	SGAI	FL	LC05	68- 46	140	54-13W	TTL	SN54S40W	Δ	TII	MO	LC05	107- 2
31	54S10W	DTL	9962FM	SGAI	FL	LC05	68- 31	141	54-13W	TTL	S54LS20W	Δ	FL	LC05	97- 41	
32	54S10W	TTL	JANM38510/07005BAB	FSC	FL	LC05	103- 12	142	54-13W	TTL	S54S20W	Δ	FL	LC05	105- 66	
33	54S10W	TTL	JANM38510/07005BAC	FSC	FL	LC05	103- 13	143	54-13W	TTL	S8H16J	Δ	FL	LC05	110- 107	
34	54S10W	TTL	JANM38510/07005BDA	none	FL	LC05	103- 16	144	54-13W	TTL	54F20FM	FSC	FL	LC05	98- 25	
35	54S10W	TTL	JANM38510/07005BDB	SIC	FL	LC05	103- 17	145	54-13W	TTL	54LS20FM	FSC	FL	LC05	94- 39	
36	54S10W	TTL	JANM38510/07005CAB	FSC	FL	LC05	103- 18	146	54-13W	TTL	54S20FM	FSC	FL	LC05	98- 44	
37	54S10W	TTL	JANM38510/07005CAC	FSC	FL	LC05	103- 19	147	54-13W	TTL	9004FM	FSC	FL	LC05	93-103	
38	54S10W	TTL	JANM38510/07005CDA	none	FL	LC05	103- 22	148	54H15W	TTL	JANM38510/08002BDA	none	FL	LC05	79- 2	
39	54S10W	TTL	JANM38510/07005CDB	none	FL	LC05	103- 23	149	54H15W	TTL	JANM38510/08002BDB	none	FL	LC05	79- 3	
40	54S10W	TTL	JANM38510/30005BAA	none	FL	LC05	96- 3	150	54H15W	TTL	JANM38510/08002CDA	none	FL	LC05	75- 6	
41	54S10W	TTL	JANM38510/30005BAB	FSC	FL	LC05	96- 4	151	54H15W	TTL	JANM38510/08002CDB	none	FL	LC05	79- 7	
42	54S10W	TTL	JANM38510/30005BAC	FSC	FL	LC05	96- 5	152	54H15W	TTL	JANM38510/31002BAA	NSC	FL	LC05	76- 31	
43	54S10W	TTL	JANM38510/30005BDA	NSC	FL	LC05	96- 9	153	54H15W	TTL	JANM38510/31002BAB	NSC	FL	LC05	76- 32	
44	54S10W	TTL	JANM38510/30005BDB	Δ	FL	LC05	96- 10	154	54H15W	TTL	JANM38510/31002BAC	NSC	FL	LC05	76- 33	
45	54S10W	TTL	JANM38510/30005CAA	none	FL	LC05	96- 11	155	54H15W	TTL	JANM38510/31002BDA	NSC	FL	LC05	76- 37	
46	54S10W	TTL	JANM38510/30005CAB	FSC	FL	LC05	96- 12	156	54H15W	TTL	JANM38510/31002BDB	NSC	FL	LC05	76- 38	
47	54S10W	TTL	JANM38510/30005CAC	FSC	FL	LC05	96- 13	157	54H15W	TTL	JANM38510/31002BDC	NSC	FL	LC05	76- 39	
48	54S10W	TTL	JANM38510/30005CDA	NSC	FL	LC05	96- 17	158	54H15W	TTL	JANM38510/31002CAA	NSC	FL	LC05	76- 40	
49	54S10W	TTL	JANM38510/30005CDB	NSC	FL	LC05	96- 18	159	54H15W	TTL	JANM38510/31002CAB	NSC	FL	LC05	76- 41	
50	54S10W	TTL	N8H70J	Δ	FL	LC05	110- 99	160	54H15W	TTL	JANM38510/31002CAC	NSC	FL	LC05	76- 42	
51	54S10W	TTL	N8470J	Δ	FL	LC05	109- 98	161	54H15W	TTL	JANM38510/31002CDA	NSC	FL	LC05	76- 46	
52	54S10W	TTL	N8870J	Δ	FL	LC05	109- 5	162	54H15W	TTL	JANM38510/31002CDB	NSC	FL	LC05	76- 47	
53	54S10W	TTL	SN54LS10W	TII	FL	LC05	97- 74	163	54H15W	TTL	JANM38510/31002CDC	NSC	FL	LC05	76- 48	
54	54S10W	TTL	SN54S10W	TII	MO	LC05	106- 97	164	54H15W	TTL	SN54H15W	TII	MO	LC05	80- 73	
55	54S10W	TTL	S54LS10W	Δ	FL	LC05	97- 37	165	54H15W	TTL	SN54LS15W	TII	FL	LC05	77- 37	
56	54S10W	TTL	S54S10W	Δ	FL	LC05	105- 64	166	54H15W	TTL	S54LS15W	Δ	FL	LC05	77- 27	
57	54S10W	TTL	S8H70J	Δ	FL	LC05	110-109	167	54H15W	TTL	S54S15W	Δ	FL	LC05	80- 28	
58	54S10W	TTL	S8470J	Δ	FL	LC05	109-104	168	54H15W	TTL	54LS15FM	FSC	FL	LC05	76- 10	
59	54S10W	TTL	S8870J	Δ	FL	LC05	109- 17	169	54H15W	TTL	54S15FM	FSC	FL	LC05	76- 3	
60	54S10W	TTL	54F10FM	FSC	FL	LC05	98- 23	170	54-18	TTL	SN54LS18J#mil	TII	DL	LC05	108-99	
61	54S10W	TTL	54LS10FM	FSC	FL	LC05	94- 37	171	54-18	TTL	SN54LS18W#mil	TII	DL	LC05	108-100	
62	54S10W	TTL	54S10FM	FSC	FL	LC05	98- 42	172	54LS19	TTL	SN54LS19J#mil	TII	DL	LC05	115- 74	
63	54S10W	TTL	9003FM	FSC	FL	LC05	93-101	173	54LS19	TTL	SN54LS19W#mil	TII	DL	LC05	115- 75	
64	54H11W	TTL	SN54H11W	TII	MO	LC05	80- 71	174	54-20	TTL	N8855A	Δ	DL	LC05	110-102	
65	54H11W	TTL	S54H11W	Δ	FL	LC05	80- 18	175	54-20	TTL	N8855F	Δ	DL	LC05	110-103	
66	54H11W	TTL	S5411W	Δ	FL	LC05	80- 34	176	54-20	TTL	N8855J	Δ	FL	LC05	110-104	
67	54H11W	TTL	54H11FM	FSC	FL	LC05	77- 50	177	54-20	TTL	S54F20W	Δ	FL	LC05	105- 46	
68	54H11W	TTL	5411FM	FSC	FL	LC05	81- 73	178	54-20W	TTL	DM5420W	NSC	FL	LC05	99- 45	
69	54S11	TTL	S54F11W	VALG	FL	LC05	80- 14	179	54-20W	TTL	JANM38510/00102BAA	NSC	FL	LC05	100- 38	
70	54S11	TTL	54LS11FM	FSC	FL	LC05	76- 9	180	54-20W	TTL	JANM38510/00102BAB	Δ	FL	LC05	100- 39	
71	54S11W	TTL	JANM38510/08001BAB	FSC	FL	LC05	78- 60	181	54-20W	TTL	JANM38510/00102BAC	Δ	FL	LC05	100- 40	
72	54S11W	TTL	JANM38510/08001BAC	FSC	FL	LC05	78- 61	182	54-20W	TTL	JANM38510/00102BAD	NSC	FL	LC05	100- 43	
73	54S11W	TTL	JANM38510/08001BDA	none	FL	LC05	78- 64	183	54-20W	TTL	JANM38510/00102BDB	Δ	FL	LC05	100- 44	
74	54S11W	TTL	JANM38510/08001BDB	SIC	FL	LC05	78- 65	184	54-20W	TTL	JANM38510/00102CAA	NSC	FL	LC05	100- 45	
75	54S11W	TTL	JANM38510/08001CAB	FSC	FL	LC05	78- 66	185	54-20W	TTL	JANM38510/00102CAB	FSC	FL	LC05	100- 46	
76	54S11W	TTL	JANM38510/08001CAC	FSC	FL	LC05	78- 67	186	54-20W	TTL	JANM38510/00102CAC	Δ	FL	LC05	100- 47	
77	54S11W	TTL	JANM38510/08001CDA	none	FL	LC05	78- 70	187	54-20W	TTL	JANM38510/00102CDA	NSC	FL	LC05	100- 50	
78	54S11W	TTL	JANM38510/08001CDB	none	FL	LC05	78- 71	188	54-20W	TTL	JANM38510/00102CDB	NSC	FL	LC05	100- 51	
79	54S11W	TTL	JANM38510/31001BAA	none	FL	LC05	76- 13	189	54-20W	TTL	JANM38510/02002BAA	NSC	FL	LC05	94- 73	
80	54S11W	TTL	JANM38510/31001BAB	FSC	FL	LC05	76- 14	190	54-20W	TTL	JANM38510/02002BAC	NSC	FL	LC05	94- 74	
81	54S11W	TTL	JANM38510/31001BAC	FSC	FL	LC05	76- 15	191	54-20W	TTL	JANM38510/02002BDA	NSC	FL	LC05	94- 77	
82	5															

FUNCTIONAL EQUIVALENCE MASTER INDEX

IN ORDER OF: (1)FUNCTIONAL NO. (2) TECH
(3)TYPE NUMBER

LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	
1	54H21W	TTL	5421FM	FSC	FL	LC05	75-106	111	54-30W	TTL	JANM38510/02301BDA	none	FL	LC05	101- 39	
2	54LS21W	TTL	JANM38510/31003BAA	NSC	FL	LC05	76- 49	112	54-30W	TTL	JANM38510/02301CAA	none	FL	LC05	101- 40	
3	54LS21W	TTL	JANM38510/31003BAB	FSC	FL	LC05	76- 50	113	54-30W	TTL	JANM38510/02301CAB	FSC	FL	LC05	101- 41	
4	54LS21W	TTL	JANM38510/31003BAC	FSC	FL	LC05	76- 51	114	54-30W	TTL	JANM38510/02301CAC	FSC	FL	LC05	101- 42	
5	54LS21W	TTL	JANM38510/31003BDA	NSC	FL	LC05	76- 54	115	54-30W	TTL	JANM38510/02301CDA	FSC	none	FL	LC05	101- 45
6	54LS21W	TTL	JANM38510/31003BDB	NSC	FL	LC05	76- 55	116	54-30W	TTL	SN54H30W	TTL	MO	LC05	106- 89	
7	54LS21W	TTL	JANM38510/31003BDC	NSC	FL	LC05	76- 56	117	54-30W	TTL	SN5430W	TTL	MO	LC05	106- 18	
8	54LS21W	TTL	JANM38510/31003CAA	NSC	FL	LC05	76- 57	118	54-30W	TTL	S54H30W	TTL	FL	LC05	105- 58	
9	54LS21W	TTL	JANM38510/31003CAB	FSC	FL	LC05	76- 58	119	54-30W	TTL	S5430W	TTL	FL	LC05	105- 88	
10	54LS21W	TTL	JANM38510/31003CAC	FSC	FL	LC05	76- 59	120	54-30W	TTL	S4H30FM	TTL	FSC	FL	LC05	98- 37
11	54LS21W	TTL	JANM38510/31003CDA	NSC	FL	LC05	77- 1	122	54-30W	TTL	S430FM	TTL	FSC	FL	LC05	98-105
12	54LS21W	TTL	JANM38510/31003CDB	NSC	FL	LC05	77- 2	122	54-30W	TTL	6N131	TTL	TTL	FL	LC05	117- 70
13	54LS21W	TTL	JANM38510/31003CDD	FSC	FL	LC05	77- 3	123	54S30W	TTL	SN54L30W	TTL	TTL	FL	LC05	97- 66
14	54LS21W	TTL	MB74LS21	FCAJ	DL	LC05	79- 44	124	54S30W	TTL	JANM38510/07008BAB	FSC	FL	LC05	103- 44	
15	54LS21W	TTL	SN54LS21W	TTL	FL	LC05	77- 39	125	54S30W	TTL	JANM38510/07008BAC	FSC	FL	LC05	103- 45	
16	54LS21W	TTL	S54LS21W	Δ	FL	LC05	77- 29	126	54S30W	TTL	JANM38510/07008CAB	FSC	FL	LC05	103- 47	
17	54LS21W	TTL	T54LS21D2	SGAI	DL	LC05	77- 44	127	54S30W	TTL	JANM38510/07008CAC	FSC	FL	LC05	103- 48	
18	54LS21W	TTL	T74LS21B1	SGAI	DL	LC05	81- 24	128	54S30W	TTL	JANM38510/30009BAA	none	FL	LC05	97- 12	
19	54LS21W	TTL	T74LS21D1	SGAI	DL	LC05	81- 25	129	54S30W	TTL	JANM38510/30009BAB	FSC	FL	LC05	97- 13	
20	54LS21W	TTL	54LS21FM	FSC	FL	LC05	75- 12	130	54S30W	TTL	JANM38510/30009BAC	FSC	FL	LC05	97- 14	
21	54-22	TTL	S54H22W	Δ	FL	LC05	105- 56	131	54S30W	TTL	JANM38510/30009BDA	NSC	FL	LC05	97- 18	
22	54-22W	DTL	S84151	PHIN	FL	LC05	95- 5	132	54S30W	TTL	JANM38510/30009BDB	Δ	FL	LC05	97- 19	
23	54-22W	TTL	JANM38510/07007BDA	none	FL	LC05	103- 38	133	54S30W	TTL	JANM38510/30009BDC	NSC	FL	LC05	97- 20	
24	54-22W	TTL	JANM38510/07007BDB	none	FL	LC05	103- 39	134	54S30W	TTL	JANM38510/30009CDA	none	FL	LC05	97- 21	
25	54-22W	TTL	JANM38510/07007CDA	none	FL	LC05	103- 42	135	54S30W	TTL	JANM38510/30009CAB	none	FL	LC05	97- 22	
26	54-22W	TTL	JANM38510/07007CDB	none	FL	LC05	103- 43	136	54S30W	TTL	JANM38510/30009CAC	FSC	FL	LC05	97- 23	
27	54-22W	TTL	JANM38510/30008BAA	NSC	FL	LC05	96- 51	137	54S30W	TTL	JANM38510/30009CDA	NSC	FL	LC05	97- 27	
28	54-22W	TTL	JANM38510/30008BAB	NSC	FL	LC05	96- 52	138	54S30W	TTL	JANM38510/30009CDB	NSC	FL	LC05	97- 28	
29	54-22W	TTL	JANM38510/30008BAC	NSC	FL	LC05	96- 53	139	54S30W	TTL	JANM38510/30009CDB	NSC	FL	LC05	97- 29	
30	54-22W	TTL	JANM38510/30008BDA	none	FL	LC05	97- 2	140	54S30W	TTL	N74H30W	Δ	FL	LC05	104- 90	
31	54-22W	TTL	JANM38510/30008BDC	NSC	FL	LC05	97- 3	141	54S30W	TTL	N8808J	Δ	FL	LC05	108-109	
32	54-22W	TTL	JANM38510/30008CAA	NSC	FL	LC05	97- 4	142	54S30W	TTL	SN54LS30W	TTL	FL	LC05	98- 3	
33	54-22W	TTL	JANM38510/30008CAB	NSC	FL	LC05	97- 5	143	54S30W	TTL	SN54S30W	TTL	MO	LC05	106-103	
34	54-22W	TTL	JANM38510/30008CAC	NSC	FL	LC05	97- 6	144	54S30W	TTL	S54L30W	Δ	FL	LC05	97- 47	
35	54-22W	TTL	JANM38510/30008CDA	none	FL	LC05	97- 10	145	54S30W	TTL	S8808J	Δ	FL	LC05	109- 11	
36	54-22W	TTL	JANM38510/30008CDC	NSC	FL	LC05	97- 11	146	54S30W	TTL	S4LS30FM	FSC	FL	LC05	94- 44	
37	54-22W	TTL	SN54LS22W	TTL	FL	LC05	97- 80	147	54S30W	TTL	S4S30FM	FSC	FL	LC05	98- 47	
38	54-22W	TTL	SN54S22W	TTL	MO	LC05	106-101	148	54-32	TTL	S54F32W	Δ	FL	LC05	88- 20	
39	54-22W	TTL	SN5422W	TTL	MO	LC05	108- 13	149	54-32W	DTL	MC1908F	MOTA	FL	LC05	66-103	
40	54-22W	TTL	S54LS22W	Δ	FL	LC05	97- 43	150	54-32W	DTL	MC1909F	MOTA	FL	LC05	66-105	
41	54-22W	TTL	S54S22W	Δ	FL	LC05	105- 68	151	54-32W	TTL	DM5432W	NSC	FL	LC05	87- 88	
42	54-22W	TTL	S4LS22FM	FSC	FL	LC05	94- 40	152	54-32W	TTL	JANM38510/16101BDA	none	FL	LC05	88- 4	
43	54-22W	TTL	S4S22FM	FSC	FL	LC05	94- 25	153	54-32W	TTL	JANM38510/16101BDB	SIC	FL	LC05	88- 5	
44	54-22W	TTL	5422FM	FSC	FL	LC05	94- 20	154	54-32W	TTL	JANM38510/16101CDA	none	FL	LC05	88- 8	
45	54H22W	TTL	JANM38510/02307BAA	none	FL	LC05	102- 39	155	54-32W	TTL	JANM38510/16101CDB	none	FL	LC05	88- 9	
46	54H22W	TTL	JANM38510/02307BAB	MOTA	FL	LC05	102- 40	156	54-32W	TTL	JANM38510/30501BAA	none	FL	LC05	87- 50	
47	54H22W	TTL	JANM38510/02307CAA	none	FL	LC05	102- 43	157	54-32W	TTL	JANM38510/30501BAB	FSC	FL	LC05	87- 51	
48	54H22W	TTL	JANM38510/02307CAB	none	FL	LC05	102- 44	158	54-32W	TTL	JANM38510/30501BAC	FSC	FL	LC05	87- 52	
49	54H22W	TTL	SN54H22W	TTL	MO	LC05	106- 87	159	54-32W	TTL	JANM38510/30501BDA	NSC	FL	LC05	87- 56	
50	54H22W	TTL	S4H22FM	FSC	FL	LC05	98- 35	160	54-32W	TTL	JANM38510/30501BDB	Δ	FL	LC05	87- 57	
51	54-23W	TTL	DM5423W	NSC	FL	LC05	91- 1	161	54-32W	TTL	JANM38510/30501BDC	NSC	FL	LC05	87- 58	
52	54-23W	TTL	JANM38510/00402BFA	none	FL	LC05	91- 38	162	54-32W	TTL	JANM38510/30501CAA	none	FL	LC05	87- 59	
53	54-23W	TTL	JANM38510/00402BFB	MOTA	FL	LC05	91- 39	163	54-32W	TTL	JANM38510/30501CAB	FSC	FL	LC05	87- 60	
54	54-23W	TTL	JANM38510/00402CFA	none	FL	LC05	91- 42	164	54-32W	TTL	JANM38510/30501CAC	FSC	FL	LC05	87- 61	
55	54-23W	TTL	SN5423W	Δ	FL	LC05	92- 99	165	54-32W	TTL	JANM38510/30501CDA	NSC	FL	LC05	87- 65	
56	54-23W	TTL	S5423W	TTL	MO	LC05	92- 47	166	54-32W	TTL	JANM38510/30501CDB	NSC	FL	LC05	87- 66	
57	54-23W	TTL	S423FM	FSC	FL	LC05	90- 66	167	54-32W	TTL	JANM38510/30501CDD	NSC	FL	LC05	87- 67	
58	54-25W	TTL	DM5425W	NSC	FL	LC05	91- 3	168	54-32W	TTL	SN54LS32W	TTL	FL	LC05	87- 71	
59	54-25W	TTL	JANM38510/00403BAA	none	FL	LC05	91- 43	169	54-32W	TTL	SN54S32W	TTL	MO	LC05	88- 30	
60	54-25W	TTL	JANM38510/00403BAB	MOTA	FL	LC05	91- 44	170	54-32W	TTL	SN5432W	TTL	MO	LC05	88- 39	
61	54-25W	TTL	JANM38510/00403CAA	none	FL	LC05	91- 47	171	54-32W	TTL	S54LS32W	Δ	FL	LC05	87- 69	
62	54-25W	TTL	SN5425W	TTL	MO	LC05	92-101	172	54-32W	TTL	S54S32W	Δ	FL	LC05	88- 22	
63	54-25W	TTL	S5425W	Δ	FL	LC05	92- 49	173	54-32W	TTL	S5432W	Δ	FL	LC05	88- 24	
64	54-25W	TTL	S425FM	FSC	FL	LC05	90- 68	174	54-32W	TTL	S4F32FM	Δ	FL	LC05	87- 74	
65	54-27W	TTL	DM5427W	NSC	FL	LC05	91- 5	175	54-32W	TTL	S4LS32FM	FSC	FL	LC05	87- 49	
66	54-27W	TTL	JANM38510/00404BAA	none	FL	LC05	91- 51	176	54-32W	TTL	S4S32FM	FSC	FL	LC05	87- 76	
67	54-27W	TTL	JANM38510/00404BAB	MOTA	FL	LC05	91- 52	177	54-32W	TTL	S432FM	FSC	FL	LC05	87- 84	
68	54-27W	TTL	JANM38510/00404BDA	none	FL	LC05	91- 55	178	54-33W	TTL	SN54LS33W	TTL	FL	LC05	90- 46	
69	54-27W	TTL	JANM38510/00404BDB	SIC	FL	LC05	91- 56	179	54-33W	TTL	SN5433W	TTL	MO	LC05	93- 2	
70	54-27W	TTL	JANM38510/00404CAA	none	FL	LC05	91- 57	180	54-33W	TTL	S4LS33FM	FSC	FL	LC05	89- 85	
71	54-27W	TTL	JANM38510/00404CAB	none	FL	LC05	91- 58	181	54-40W	TTL	DM5440W	NSC	FL	LC05	99- 53	
72	54-27W	TTL	JANM38510/00404CDA	none	FL	LC05	91- 61	182	54-40W	TTL	SN54H40W	TTL	MO	LC05	106- 91	
73	54-27W	TTL	JANM38510/30302BAA	none	FL	LC05	90- 15	183	54-40W	TTL	SN5440W	TTL	MO	LC05	108- 23	
74	54-27W	TTL	JANM38510/30302BAB	FSC	FL	LC05	90- 16	184	54-41W	TTL	9315FM	FSC	FL	LC06	118- 35	
75	54-27W	TTL	JANM38510/30302BAC	FSC	FL	LC05	90- 17	185	54-41W	TTL	DM5441AW	NSC	FL	LC06	119- 29	
76	54-27W	TTL	JANM38510/30302BDA	NSC	FL	LC05	90- 21	186	54LS42W	TTL	DM5442W	NSC	FL	LC06	119- 31	
77	54-27W	TTL	JANM38510/30302BDB	Δ	FL	LC05	90- 22	187	54LS42W	TTL	JANM38510/01001BFB	Δ	FL	LC06	119- 63	
78	54-27W	TTL	JANM38510/30302CAA	none	FL	LC05	90- 23	188	54LS42W	TTL	JANM38510/01001CFB	none	FL	LC06	119- 67	
79	54-27W	TTL	JANM38510/30302CAB	FSC	FL	LC05	90- 24	189	54LS42W	TTL	JANM38510/30703BFA	none	FL	LC06	119- 78	
80	54-27W	TTL	JANM38510/30302CAC	FSC	FL	LC05	90- 25	190	54LS42W	TTL	JANM38510/30703BFB	Δ	FL	LC06	119- 79	
81	54-27W	TTL	JANM38510/30302CDA	NSC	FL	LC05	90- 29	191	54LS42W	TTL	JANM38510/30703CFA	none	FL	LC06	119- 8	

FUNCTIONAL EQUIVALENCE MASTER INDEX

IN ORDER OF: (1)FUNCTIONAL NO. (2) TECH
(3)TYPE NUMBER

LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	
1	54-50W	TTL	JANM38510/00501BDB	NSC	FL	LC05	84- 7	111	54-54W	TTL	JANM38510/00504CAC	NSC	FL	LC05	84- 52	
2	54-50W	TTL	JANM38510/00501CAA	NSC	FL	LC05	84- 8	112	54-54W	TTL	JANM38510/00504CDB	NSC	FL	LC05	84- 55	
3	54-50W	TTL	JANM38510/00501CAB	none	FL	LC05	84- 9	113	54-54W	TTL	JANM38510/00504CDB	NSC	FL	LC05	85- 1	
4	54-50W	TTL	JANM38510/00501CAC	NSC	FL	LC05	84- 10	114	54-54W	TTL	SN5454W	TII	MO	LC05	87- 7	
5	54-50W	TTL	JANM38510/00501CDA	NSC	FL	LC05	84- 13	115	54-54W	TTL	SN7454	TII	FL	LC05	87- 16	
6	54-50W	TTL	JANM38510/00501CDB	NSC	FL	LC05	84- 14	116	54-54W	TTL	5454FM	FSC	FL	LC05	83- 4	
7	54-50W	TTL	JANM38510/04001BAA	none	FL	LC05	85- 2	117	54H54W	TTL	JANM38510/04004BAA	none	FL	LC05	85- 38	
8	54-50W	TTL	JANM38510/04001BAB	MOTA	FL	LC05	85- 3	118	54H54W	TTL	JANM38510/04004BAB	none	FL	LC05	85- 39	
9	54-50W	TTL	JANM38510/04001BDA	none	FL	LC05	85- 6	119	54H54W	TTL	JANM38510/04004BDA	none	FL	LC05	85- 42	
10	54-50W	TTL	JANM38510/04001BDB	none	FL	LC05	85- 7	120	54H54W	TTL	JANM38510/04004BDB	none	FL	LC05	85- 43	
11	54-50W	TTL	JANM38510/04001CAA	none	FL	LC05	85- 8	121	54H54W	TTL	JANM38510/04004CAB	none	FL	LC05	85- 44	
12	54-50W	TTL	JANM38510/04001CAB	none	FL	LC05	85- 9	122	54H54W	TTL	JANM38510/04004CAB	none	FL	LC05	85- 45	
13	54-50W	TTL	JANM38510/04001CDA	none	FL	LC05	85- 12	123	54H54W	TTL	JANM38510/04004CDB	none	FL	LC05	85- 48	
14	54-50W	TTL	JANM38510/04001CDB	none	FL	LC05	85- 13	124	54H54W	TTL	SFC454HPM	THEF	FL	LC05	86- 65	
15	54-50W	TTL	N8840J	none	FL	LC05	113- 14	125	54H54W	TTL	SN54H54W	TII	MO	LC05	86- 74	
16	54-50W	TTL	SN54H50W	TII	MO	LC05	86- 68	126	54H54W	TTL	S54H54W	Δ	FL	LC05	86- 39	
17	54-50W	TTL	SN5450W	TII	MO	LC05	87- 1	127	54H54W	TTL	S5454W	Δ	FL	LC05	86- 48	
18	54-50W	TTL	S54H50W	Δ	FL	LC05	114- 5	128	54H54W	TTL	54H54FM	FSC	FL	LC05	83- 57	
19	54-50W	TTL	S5450W	Δ	FL	LC05	114- 18	129	54L54T	TTL	SN54L54W	TII	FL	LC05	83- 37	
20	54-50W	TTL	S8840J	Δ	FL	LC05	113- 19	130	54LS54W	TTL	JANM38510/30402BAA	NSC	FL	LC05	82- 3	
21	54-50W	TTL	54H50FM	FSC	FL	LC05	83- 52	131	54LS54W	TTL	JANM38510/30402BAB	none	FL	LC05	82- 4	
22	54-50W	TTL	5450FM	FSC	FL	LC05	113- 80	132	54LS54W	TTL	JANM38510/30402BAC	NSC	FL	LC05	82- 5	
23	54-51W	TTL	DM5451J	NSC	DL	LC05	83-100	133	54LS54W	TTL	JANM38510/30402BAD	NSC	FL	LC05	82- 9	
24	54-51W	TTL	DM5451W	NSC	FL	LC05	83-101	134	54LS54W	TTL	JANM38510/30402BDB	Δ	FL	LC05	82- 10	
25	54-51W	TTL	JANM38510/00502BAA	NSC	FL	LC05	84- 15	135	54LS54W	TTL	JANM38510/30402BDC	NSC	FL	LC05	82- 11	
26	54-51W	TTL	JANM38510/00502BAB	MOTA	FL	LC05	84- 16	136	54LS54W	TTL	JANM38510/30402CAA	NSC	FL	LC05	82- 12	
27	54-51W	TTL	JANM38510/00502BAC	NSC	FL	LC05	84- 17	137	54LS54W	TTL	JANM38510/30402CAB	none	FL	LC05	82- 13	
28	54-51W	TTL	JANM38510/00502BDA	NSC	FL	LC05	84- 20	138	54LS54W	TTL	JANM38510/30402CAC	NSC	FL	LC05	82- 14	
29	54-51W	TTL	JANM38510/00502BDB	NSC	FL	LC05	84- 21	139	54LS54W	TTL	JANM38510/30402CDA	NSC	FL	LC05	82- 18	
30	54-51W	TTL	JANM38510/00502CAA	NSC	FL	LC05	84- 22	140	54LS54W	TTL	JANM38510/30402CDB	NSC	FL	LC05	82- 19	
31	54-51W	TTL	JANM38510/00502CAB	none	FL	LC05	84- 23	141	54LS54W	TTL	JANM38510/30402CDC	NSC	FL	LC05	82- 20	
32	54-51W	TTL	JANM38510/00502CAC	NSC	FL	LC05	84- 24	142	54LS54W	TTL	SN54LS54W	TII	FL	LC05	83- 43	
33	54-51W	TTL	JANM38510/00502CDA	NSC	FL	LC05	84- 27	143	54LS54W	TTL	S54LS54W	Δ	FL	LC05	83- 27	
34	54-51W	TTL	JANM38510/00502CDB	NSC	FL	LC05	84- 28	144	54H55W	TTL	JANM38510/04005BAA	none	FL	LC05	85- 49	
35	54-51W	TTL	JANM38510/04002BAA	none	FL	LC05	85- 14	145	54H55W	TTL	JANM38510/04005BAB	MOTA	FL	LC05	85- 50	
36	54-51W	TTL	JANM38510/04002BAB	MOTA	FL	LC05	85- 15	146	54H55W	TTL	JANM38510/04005BDA	none	FL	LC05	85- 53	
37	54-51W	TTL	JANM38510/04002BDA	none	FL	LC05	85- 18	147	54H55W	TTL	JANM38510/04005BDB	none	FL	LC05	85- 54	
38	54-51W	TTL	JANM38510/04002BDB	none	FL	LC05	85- 19	148	54H55W	TTL	JANM38510/04005CAA	none	FL	LC05	85- 55	
39	54-51W	TTL	JANM38510/04002CAA	none	FL	LC05	85- 20	149	54H55W	TTL	JANM38510/04005CAB	none	FL	LC05	86- 1	
40	54-51W	TTL	JANM38510/04002CAB	none	FL	LC05	85- 21	150	54H55W	TTL	JANM38510/04005CDA	none	FL	LC05	86- 4	
41	54-51W	TTL	JANM38510/04002CDA	none	FL	LC05	85- 24	151	54H55W	TTL	JANM38510/04005CDB	none	FL	LC05	86- 5	
42	54-51W	TTL	JANM38510/04002CDB	none	FL	LC05	85- 25	152	54H55W	TTL	RG110CJ	RTN	FL	LC05	88- 86	
43	54-51W	TTL	SFC451HPM	THEF	FL	LC05	86- 54	153	54H55W	TTL	RG110CK	RTN	FL	LC05	88- 87	
44	54-51W	TTL	SN54H51W	TII	MO	LC05	86- 70	154	54H55W	TTL	RG111CJ	RTN	FL	LC05	88- 89	
45	54-51W	TTL	SN5451W	TII	MO	LC05	87- 3	155	54H55W	TTL	RG111CK	RTN	FL	LC05	88- 90	
46	54-51W	TTL	S54H51W	Δ	FL	LC05	86- 37	156	54H55W	TTL	RG112CJ	RTN	FL	LC05	88- 92	
47	54-51W	TTL	S5451W	Δ	FL	LC05	86- 46	157	54H55W	TTL	RG112CK	RTN	FL	LC05	88- 93	
48	54-51W	TTL	54H51FM	FSC	FL	LC05	83- 54	158	54H55W	TTL	RG113CJ	RTN	FL	LC05	88- 95	
49	54-51W	TTL	5451FM	FSC	FL	LC05	83- 2	159	54H55W	TTL	RG113CK	RTN	FL	LC05	88- 96	
50	54L51T	TTL	SN54L51W	TII	FL	LC05	83- 35	160	54H55W	TTL	SN54H55W	Δ	MO	LC05	86- 76	
51	54LS51W	TTL	JANM38510/30401BAA	NSC	FL	LC05	81- 78	161	54H55W	TTL	S54H55W	TII	FL	LC05	86- 40	
52	54LS51W	TTL	JANM38510/30401BAB	none	FL	LC05	81- 79	162	54H55W	TTL	54H55FM	FSC	FL	LC05	83- 58	
53	54LS51W	TTL	JANM38510/30401BAC	NSC	FL	LC05	81- 80	163	54L55	TTL	DM54L55W#mil	NSC	FL	LC05	113- 72	
54	54LS51W	TTL	JANM38510/30401BDA	NSC	FL	LC05	81- 84	164	54L55T	TTL	SN54L55W	TII	FL	LC05	83- 39	
55	54LS51W	TTL	JANM38510/30401BDB	Δ	FL	LC05	81- 85	165	54LS55W	TTL	SN54LS55W	TII	FL	LC05	83- 45	
56	54LS51W	TTL	JANM38510/30401BDC	NSC	FL	LC05	81- 86	166	54LS55W	TTL	S54LS55W	Δ	FL	LC05	83- 29	
57	54LS51W	TTL	JANM38510/30401CAA	NSC	FL	LC05	81- 87	167	54LS55W	TTL	54LS55FM	FSC	FL	LC05	83- 17	
58	54LS51W	TTL	JANM38510/30401CAB	none	FL	LC05	81- 88	168	54-60	TTL	SFC460EM	THEF	DL	LC05	114- 24	
59	54LS51W	TTL	JANM38510/30401CAC	NSC	FL	LC05	81- 89	169	54-60W	TTL	SFC460PM	THEF	ZB	LC05	114- 26	
60	54LS51W	TTL	JANM38510/30401CDA	NSC	FL	LC05	81- 93	170	54-60W	TTL	SN54H60W	TII	MO	LC05	114- 28	
61	54LS51W	TTL	JANM38510/30401CDB	NSC	FL	LC05	82- 1	171	54-60W	TTL	SN5460W	TII	MO	LC05	114- 40	
62	54LS51W	TTL	JANM38510/30401CDC	NSC	FL	LC05	82- 2	172	54-60W	TTL	S54H60W	Δ	FL	LC05	114- 12	
63	54LS51W	TTL	SN54LS51W	TII	FL	LC05	83- 41	173	54-60W	TTL	S5460W	Δ	FL	LC05	114- 22	
64	54LS51W	TTL	S54LS51W	Δ	FL	LC05	83- 25	174	54-60W	TTL	S880J	Δ	FL	LC05	113- 65	
65	54S51W	TTL	JANM38510/07401BDA	Δ	none	FL	LC05	82- 30	175	54-60W	TTL	54H60FM	FSC	FL	LC05	113- 82
66	54S51W	TTL	JANM38510/07401BDB	SIC	FL	LC05	82- 31	176	54-60W	TTL	5460FM	FSC	FL	LC05	113- 82	
67	54S51W	TTL	JANM38510/07401CDA	none	FL	LC05	82- 34	177	54H61W	TTL	SN54H61W	TII	MO	LC05	114- 30	
68	54S51W	TTL	JANM38510/07401CDB	none	FL	LC05	82- 35	178	54H61W	TTL	S54H61W	Δ	FL	LC05	114- 14	
69	54S51W	TTL	SN54S51W	TII	MO	LC05	86- 78	179	54H61W	TTL	54H61FM	Δ	FSC	FL	LC05	113- 75
70	54S51W	TTL	S54S51W	Δ	FL	LC05	82- 50	180	54H62W	TTL	SN54H62W	TII	MO	LC05	114- 32	
71	54S51W	TTL	S4S51FM	FSC	FL	LC05	82- 72	181	54H62W	TTL	S54H62W	Δ	FL	LC05	114- 16	
72	54H52W	TTL	SN54H52W	TII	MO	LC05	82- 52	182	54H62W	TTL	54H62FM	Δ	FSC	FL	LC05	113- 76
73	54H52W	TTL	S54H52W	Δ	FL	LC05	114- 7	183	54S64	TTL	S54F64W	Δ	FL	LC05	82- 66	
74	54H52W	TTL	54H52FM	FSC	FL	LC05	82- 22	184	54S64W	TTL	JANM38510/07402BDA	Δ	FL	LC05	82- 38	
75	54-53W	TTL	DM5453W	NSC	FL	LC05	83-103	185	54S64W	TTL	JANM38510/07402BDB	SIC	FL	LC05	82- 39	
76	54-53W	TTL	JANM38510/00503BAA	NSC	FL	LC05	84- 29	186	54S64W	TTL	JANM38510/07402CDA	none	FL	LC05	82- 42	
77	54-53W	TTL	JANM38510/00503BAB	MOTA	FL	LC05	84- 30	187	54S64W	TTL	JANM38510/07402CDB	none	FL	LC05	82- 43	
78	54-53W	TTL	JANM38510/00503BAC	NSC	FL	LC05	84- 31	188	54S64W	TTL	SN54S64W	TII	MO	LC05	86- 80	
79	54-53W	TTL	JANM38510/00503BDA	NSC	FL	LC05	84- 34	189	54S64W	TTL	S54S64W	Δ	FL	LC05	86- 42	
80	54-53W	TTL	JANM38510/00503BDB	NSC	FL	LC05	84- 35	190	54S64W	TTL	54F64FM	FSC	FL	LC05	83- 50	
81	54-53W	TTL	JANM38510/00503CAA	NSC	FL	LC05	84- 36	191	54S64W	TTL	54S64FM	FSC	FL	LC05	83- 60	
82	54-53W	TTL	JANM38510/00503CAB	none	FL	LC05	84- 37									

FUNCTIONAL EQUIVALENCE MASTER INDEX

IN ORDER OF: (1)FUNCTIONAL NO. (2) TECH
(3)TYPE NUMBER

LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE
1	54H71W	TTL	54H71FM	FSC	FP	LC04	42- 46	111	54-74W	TTL	JANM38510/02203CDB	SIC	FP	LC04	52- 24
2	54L71	TTL	SN54L71W	TII	FP	LC04	49- 94	112	54-74W	TTL	N882BJ	Δ	FL	LC04	54- 54
3	54L71T	TTL	DM5472W	NSC	FP	LC04	49- 63	113	54-74W	TTL	SFC474HPM	THEF	FL	LC04	52- 69
4	54L71T	TTL	JANM38510/00201BAA	NSC	FP	LC04	43- 36	114	54-74W	TTL	SFC474PM	THEF	FL	LC04	52- 70
5	54L71T	TTL	JANM38510/00201BAC	NSC	FP	LC04	43- 37	115	54-74W	TTL	SN54H74W	TII	MO	LC04	53- 4
6	54L71T	TTL	JANM38510/00201BDA	NSC	FP	LC04	43- 40	116	54-74W	TTL	SN54L74W	TII	FL	LC04	50- 80
7	54L71T	TTL	JANM38510/00201BDB	Δ	FP	LC04	43- 41	117	54-74W	TTL	S5474W	Δ	FP	LC04	54- 19
8	54L71T	TTL	JANM38510/00201CAA	NSC	FP	LC04	43- 42	118	54-74W	TTL	S54H74W	Δ	FP	LC04	52- 58
9	54L71T	TTL	JANM38510/00201CAC	NSC	FP	LC04	43- 43	119	54-74W	TTL	S5474W	Δ	FP	LC04	52- 62
10	54L71T	TTL	JANM38510/00201CDA	NSC	FP	LC04	43- 46	120	54-74W	TTL	S882BJ	Δ	FL	LC04	54- 57
11	54L71T	TTL	JANM38510/00201CDB	NSC	FP	LC04	43- 47	121	54-74W	TTL	54F74FM	FSC	FP	LC04	51- 8
12	54L71T	TTL	JANM38510/02101BAA	NSC	FP	LC04	49- 82	122	54-74W	TTL	54H74FM	FSC	FP	LC04	51- 16
13	54L71T	TTL	JANM38510/02101BAC	NSC	FP	LC04	49- 83	123	54-74W	TTL	5474FM	FSC	FP	LC04	51- 48
14	54L71T	TTL	JANM38510/02101BDA	NSC	FP	LC04	49- 86	124	54S74N	TTL	S54L574AW	SIC	FP	LC04	53- 36
15	54L71T	TTL	JANM38510/02101BDB	NSC	FP	LC04	49- 87	125	54S74W	TTL	JANM38510/00207BAA	none	FP	LC04	54- 78
16	54L71T	TTL	JANM38510/02101CAA	NSC	FP	LC04	49- 88	126	54S74W	TTL	JANM38510/00207BAB	MOTA	FP	LC04	54- 79
17	54L71T	TTL	JANM38510/02101CAC	NSC	FP	LC04	49- 89	127	54S74W	TTL	JANM38510/00207CAA	none	FP	LC04	54- 82
18	54L71T	TTL	JANM38510/02101CDA	NSC	FP	LC04	49- 91	128	54S74W	TTL	JANM38510/00207CAB	none	FP	LC04	54- 83
19	54L71T	TTL	JANM38510/02101CDB	NSC	FP	LC04	49- 92	129	54S74W	TTL	JANM38510/07101BAB	FSC	FP	LC04	52- 33
20	54L71T	TTL	JANM38510/02102BAA	NSC	FP	LC04	40- 32	130	54S74W	TTL	JANM38510/07101BDA	SIC	FP	LC04	52- 36
21	54L71T	TTL	JANM38510/02102BAC	NSC	FP	LC04	40- 33	131	54S74W	TTL	JANM38510/07101CAB	FSC	FP	LC04	52- 37
22	54L71T	TTL	JANM38510/02102BDA	NSC	FP	LC04	40- 36	132	54S74W	TTL	JANM38510/07101CDA	SIC	FP	LC04	52- 40
23	54L71T	TTL	JANM38510/02102BDB	NSC	FP	LC04	40- 37	133	54S74W	TTL	JANM38510/30102BAA	none	FP	LC04	50- 62
24	54L71T	TTL	JANM38510/02102CAA	NSC	FP	LC04	40- 38	134	54S74W	TTL	JANM38510/30102BAB	FSC	FP	LC04	50- 63
25	54L71T	TTL	JANM38510/02102CAC	NSC	FP	LC04	40- 39	135	54S74W	TTL	JANM38510/30102BAC	FSC	FP	LC04	50- 64
26	54L71T	TTL	JANM38510/02102CDA	NSC	FP	LC04	40- 42	136	54S74W	TTL	JANM38510/30102BDA	none	FP	LC04	50- 67
27	54L71T	TTL	JANM38510/02102CDB	NSC	FP	LC04	40- 43	137	54S74W	TTL	JANM38510/30102BDB	Δ	FP	LC04	50- 68
28	54L71T	TTL	JANM38510/02201BAA	none	FP	LC04	44- 12	138	54S74W	TTL	JANM38510/30102CAA	none	FP	LC04	50- 69
29	54L71T	TTL	JANM38510/02201BAB	MOTA	FP	LC04	44- 13	139	54S74W	TTL	JANM38510/30102CAB	FSC	FP	LC04	50- 70
30	54L71T	TTL	JANM38510/02201BDA	none	FP	LC04	44- 16	140	54S74W	TTL	JANM38510/30102CAC	FSC	FP	LC04	50- 71
31	54L71T	TTL	JANM38510/02201BDB	none	FP	LC04	44- 17	141	54S74W	TTL	JANM38510/30102CDA	none	FP	LC04	50- 74
32	54L71T	TTL	JANM38510/02201CAA	none	FP	LC04	44- 18	142	54S74W	TTL	SN54ALS74W	TII	DL	LC04	53- 2
33	54L71T	TTL	JANM38510/02201CAB	none	FP	LC04	44- 19	143	54S74W	TTL	SN54LS74AW	TII	FL	LC04	51- 1
34	54L71T	TTL	JANM38510/02201CDA	none	FP	LC04	44- 22	144	54S74W	TTL	SN54S74J	TII	DL	LC04	53- 5
35	54L71T	TTL	JANM38510/02201CDB	none	FP	LC04	44- 23	145	54S74W	TTL	SN54S74W	TII	MO	LC04	53- 6
36	54L71T	TTL	N8829J	Δ	FP	LC04	47- 78	146	54S74W	TTL	S54L574W	Δ	FP	LC04	50- 76
37	54L71T	TTL	SN54H102W	TII	MO	LC04	46- 52	147	54S74W	TTL	S54S74W	Δ	FP	LC04	52- 60
38	54L71T	TTL	SN54H72W	TII	MO	LC04	46- 42	148	54S74W	TTL	54LS74FM	FSC	FP	LC04	50- 33
39	54L71T	TTL	SN54L72W	TII	FP	LC04	49- 49	149	54S74W	TTL	54S74FM	FSC	FP	LC04	51- 26
40	54L71T	TTL	SN5472W	TII	MO	LC04	49- 75	150	54-75W	TTL	DM5475W	NSC	FL	LC26	177- 48
41	54L71T	TTL	S54H102W	Δ	FP	LC04	46- 6	151	54-75W	TTL	JANM38510/01501BFA	none	FL	LC26	178- 1
42	54L71T	TTL	S54H72W	Δ	FP	LC04	45- 96	152	54-75W	TTL	JANM38510/01501BFB	Δ	FL	LC26	178- 2
43	54L71T	TTL	S5472W	Δ	FP	LC04	46- 22	153	54-75W	TTL	JANM38510/01501CFB	none	FL	LC26	178- 5
44	54L71T	TTL	S8829J	Δ	FP	LC04	47-101	154	54-75W	TTL	JANM38510/01501CFB	none	FL	LC26	178- 6
45	54L71T	TTL	54H102FM	FSC	FP	LC04	42- 54	155	54-75W	TTL	SN54LS75W	TII	MO	LC26	177- 60
46	54L71T	TTL	54H72FM	FSC	FP	LC04	42- 48	156	54-75W	TTL	SN5475W	TII	MO	LC26	177- 78
47	54L71T	TTL	5472FM	FSC	FP	LC04	49- 56	157	54-75W	TTL	S54LS75W	Δ	FL	LC26	177- 55
48	54-73	DTL	SN159093F	TII	DL	LC04	37- 90	158	54-75W	TTL	S5475W	Δ	FL	LC26	177- 71
49	54-73	DTL	SN158093J	TII	FL	LC04	37- 75	159	54-75W	TTL	5475FM	FSC	FL	LC26	179- 1
50	54-73	DTL	SN158093R	TII	FL	LC04	37- 77	160	54LS76W	TTL	DM5476W	NSC	FP	LC04	43- 3
51	54-73	DTL	SN158094R	TII	FL	LC04	37- 81	161	54LS76W	TTL	JANM38510/00204BFA	none	FP	LC04	43- 68
52	54-73	DTL	SN158093R	TII	FL	LC04	37- 93	162	54LS76W	TTL	JANM38510/00204BFB	SIC	FP	LC04	43- 69
53	54-73	DTL	SN158094F	TII	FL	LC04	37- 94	163	54LS76W	TTL	JANM38510/00204CFB	SIC	FP	LC04	43- 72
54	54-73	DTL	SN158094J	TII	DL	LC04	37- 95	164	54LS76W	TTL	JANM38510/00204CFB	none	FP	LC04	44- 1
55	54-73	DTL	SN158094R	TII	FL	LC04	37- 97	165	54LS76W	TTL	JANM38510/02204BFA	none	FP	LC04	44- 38
56	54-73	TTL	DM5473W	NSC	FP	LC04	43- 1	166	54LS76W	TTL	JANM38510/02204BFB	none	FP	LC04	44- 39
57	54-73	TTL	JANM38510/00202BAA	NSC	FP	LC04	43- 48	167	54LS76W	TTL	JANM38510/02204CFB	none	FP	LC04	44- 42
58	54-73	TTL	JANM38510/00202BAB	MOTA	FP	LC04	43- 49	168	54LS76W	TTL	JANM38510/02204CFB	none	FP	LC04	44- 43
59	54-73	TTL	JANM38510/00202BAC	NSC	FP	LC04	43- 50	169	54LS76W	TTL	JANM38510/30101BFA	none	FP	LC04	41- 54
60	54-73	TTL	JANM38510/00202BDA	NSC	FP	LC04	43- 53	170	54LS76W	TTL	JANM38510/30101CFA	none	FP	LC04	42- 2
61	54-73	TTL	JANM38510/00202BDB	Δ	FP	LC04	43- 54	171	54LS76W	TTL	SN54H106W	TII	MO	LC04	46- 56
62	54-73	TTL	JANM38510/00202CAA	NSC	FP	LC04	43- 55	172	54LS76W	TTL	SN54H76W	TII	MO	LC04	46- 46
63	54-73	TTL	JANM38510/00202CAB	none	FP	LC04	43- 56	173	54LS76W	TTL	SN54LS76AW	TII	MO	LC04	42- 26
64	54-73	TTL	JANM38510/00202CAC	NSC	FP	LC04	43- 57	174	54LS76W	TTL	SN5476W	TII	DL	LC04	46-10
65	54-73	TTL	JANM38510/00202CDA	NSC	FP	LC04	43- 60	175	54LS76W	TTL	S54H106W	Δ	FP	LC04	46- 10
66	54-73	TTL	JANM38510/00202CDB	NSC	FP	LC04	43- 61	176	54LS76W	TTL	S54H76W	Δ	FP	LC04	46- 2
67	54-73	TTL	JANM38510/02103BAA	NSC	FP	LC04	40- 44	177	54LS76W	TTL	S5476W	Δ	FP	LC04	46- 26
68	54-73	TTL	JANM38510/02103BAC	NSC	FP	LC04	40- 45	178	54LS76W	TTL	54H106FM	FSC	FP	LC04	42- 58
69	54-73	TTL	JANM38510/02103CAA	NSC	FP	LC04	40- 55	179	54LS76W	TTL	54H76FM	FSC	FP	LC04	42- 51
70	54-73	TTL	JANM38510/02103CAC	NSC	FP	LC04	40- 51	180	54LS76W	TTL	5476FM	FSC	FP	LC04	42- 96
71	54-73	TTL	JANM38510/02103CDA	NSC	FP	LC04	40- 54	181	54LS76W	TTL	JANM38510/01502BAA	none	FL	LC26	177- 82
72	54-73	TTL	JANM38510/02103CDB	NSC	FP	LC04	40- 55	182	54LS76W	TTL	JANM38510/01502BAB	MOTA	FL	LC26	177- 83
73	54-73	TTL	JANM38510/02202BAA	none	FP	LC04	44- 24	183	54-77W	TTL	JANM38510/01502BBA	none	FL	LC26	177- 86
74	54-73	TTL	JANM38510/02202BAB	MOTA	FP	LC04	44- 25	184	54-77W	TTL	JANM38510/01502BDB	none	FL	LC26	177- 87
75	54-73	TTL	JANM38510/02202BDA	none	FP	LC04	44- 28	185	54-77W	TTL	JANM38510/01502BDB	none	FL	LC26	177- 87
76	54-73	TTL	JANM38510/02202BDB	none	FP	LC04	44- 29	186	54-77W	TTL	JANM38510/01502CAA	none	FL	LC26	177- 88
77	54-73	TTL	JANM38510/02202CAA	none	FP	LC04	44- 30	187	54-77W	TTL	JANM38510/01502CAB	none	FL	LC26	177- 89
78	54-73	TTL	JANM38510/02202CAB	none	FP	LC04	44- 31	188	54-77W	TTL	JANM38510/01502CDA	none	FL	LC26	177- 92
79	54-73	TTL	JANM38510/02202CDA	none	FP	LC04	44- 34	189	54-77W	TTL	JANM38510/01502CDB	none	FL	LC26	177- 93
80	54-73	TTL	JANM38510/02202CDB	none	FP	LC04	44- 35	190	54-77W	TTL	SN54LS77W	TII	MO	LC26	177- 41
81	54-73	TTL	JANM38510/30101BDA	none	FP	LC04	41- 10	191	54-77W	TTL	SN54L77W	TII	FL	LC26	178- 9
82	54-73														

FUNCTIONAL EQUIVALENCE MASTER INDEX

IN ORDER OF: (1)FUNCTIONAL NO. (2) TECH
(3)TYPE NUMBER

LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	
1	54-82W	TTL	JANM38510/00601BAA	none	FL	LC15	160- 98	111	54-90W	TTL	JANM38510/02501BCB	NSC	DL	LC11	139- 87	
2	54-82W	TTL	JANM38510/00601BAB	MOTA	FL	LC15	160- 99	112	54-90W	TTL	JANM38510/02501BDA	NSC	FP	LC11	139- 88	
3	54-82W	TTL	JANM38510/00601CAA	none	FL	LC15	161- 3	113	54-90W	TTL	JANM38510/02501BDB	NSC	FP	LC11	139- 89	
4	54-82W	TTL	JANM38510/00601CAB	none	FL	LC15	161- 4	114	54-90W	TTL	JANM38510/02501CCB	NSC	DL	LC11	139- 91	
5	54-82W	TTL	SN5482W	none	TII	MO	LC15	160- 91	115	54-90W	TTL	JANM38510/02501CDA	NSC	FP	LC11	139- 92
6	54-82W	TTL	5482FM	FSC	FL	LC15	160- 89	116	54-90W	TTL	JANM38510/02501CDB	NSC	FP	LC11	139- 93	
7	54-83	TTL	DM5483W	NSC	FL	LC15	162- 20	117	54-90W	TTL	SFC490PM	THEF	FL	LC11	140- 52	
8	54-83	TTL	JANM38510/00602BFA	none	FL	LC15	162- 33	118	54-90W	TTL	SN54L90W	TII	MO	LC11	143- 51	
9	54-83	TTL	JANM38510/00602BFB	Δ	FL	LC15	162- 34	119	54-90W	TTL	SN54L90W	TII	FP	LC11	143- 49	
10	54-83	TTL	JANM38510/00602CFA	none	FL	LC15	162- 37	120	54-90W	TTL	SN5490AW	TII	MO	LC11	143- 55	
11	54-83	TTL	JANM38510/00602CFB	none	FL	LC15	162- 38	121	54-90W	TTL	S54L90W	Δ	FP	LC11	140- 46	
12	54-83	TTL	JANM38510/31201BFA	none	FL	LC15	161- 88	122	54-90W	TTL	S5490W	Δ	FP	LC11	140- 19	
13	54-83	TTL	JANM38510/31201BFB	FSC	FL	LC15	162- 1	123	54-90W	TTL	ZN7490F	FERB	FL	LC11	140- 54	
14	54-83	TTL	JANM38510/31201CFA	none	FL	LC15	162- 4	124	54-90W	TTL	54L90FM	FSC	FP	LC11	142- 32	
15	54-83	TTL	JANM38510/31201CFB	FSC	FL	LC15	162- 5	125	54-90W	TTL	5490AFM	FSC	FP	LC11	142- 79	
16	54-83	TTL	SN54L83AW	TII	MO	LC15	161- 59	126	54-92	TTL	SFC492PM	THEF	FL	LC11	150- 19	
17	54-83	TTL	SN5483AW	TII	MO	LC15	161- 67	127	54-92W	TTL	DM5492W	NSC	FP	LC11	152- 77	
18	54-83	TTL	S54L83W	Δ	FL	LC15	161- 53	128	54-92W	TTL	JANM38510/01301BAA	none	FP	LC11	152- 48	
19	54-83	TTL	S5483W	Δ	FL	LC15	162- 18	129	54-92W	TTL	JANM38510/01301BAB	MOTA	FP	LC11	152- 49	
20	54-83	TTL	54F283FM	FSC	FL	LC15	161- 16	130	54-92W	TTL	JANM38510/01301BDA	none	FP	LC11	152- 52	
21	54-83	TTL	54LS83AFM	FSC	FL	LC15	161- 35	131	54-92W	TTL	JANM38510/01301BDB	none	FP	LC11	152- 53	
22	54-83	TTL	5483AFM	FSC	FL	LC15	161- 23	132	54-92W	TTL	JANM38510/01301CAA	none	FP	LC11	152- 54	
23	54-85	TTL	54LS85FM	FSC	FL	LC17	166- 40	133	54-92W	TTL	JANM38510/01301CAB	none	FP	LC11	152- 55	
24	54-85W	TTL	JANM38510/15001BFA	SIC	FL	LC17	166- 69	134	54-92W	TTL	JANM38510/01301CDA	none	FP	LC11	152- 58	
25	54-85W	TTL	JANM38510/15001BFB	Δ	FL	LC17	166- 70	135	54-92W	TTL	JANM38510/01301CDB	none	FP	LC11	152- 59	
26	54-85W	TTL	JANM38510/15001CFA	Δ none	FL	LC17	166- 73	136	54-92W	TTL	SN54L92W	TII	MO	LC11	153- 34	
27	54-85W	TTL	JANM38510/15001CFB	none	FL	LC17	166- 74	137	54-92W	TTL	SN5492AW	TII	MO	LC11	153- 38	
28	54-85W	TTL	JANM38510/31101BFA	none	FL	LC17	166- 57	138	54-92W	TTL	S54L92W	Δ	FP	LC11	153- 22	
29	54-85W	TTL	SN54L85AW	TII	MO	LC17	166- 45	139	54-92W	TTL	S5492W	Δ	FP	LC11	153- 18	
30	54-85W	TTL	SN54S85W	TII	MO	LC17	166- 10	140	54-92W	TTL	ZN7492F	Δ FERB	FL	LC11	152- 61	
31	54-85W	TTL	SN5485W	TII	MO	LC17	166- 36	141	54-92W	TTL	54LS92FM	FSC	FP	LC11	153- 25	
32	54-85W	TTL	S54L85W	Δ	FL	LC17	166- 66	142	54-92W	TTL	5492AFM	FSC	FP	LC11	153- 28	
33	54-85W	TTL	S54S85W	Δ	FL	LC17	166- 8	143	54-93T	TTL	DM76L93F	NSC	FP	LC11	145- 45	
34	54-85W	TTL	S5485W	Δ	FL	LC17	166- 29	144	54L93T	TTL	DM66L93F	NSC	FP	LC11	145- 48	
35	54-85FM	TTL	5485FM	Δ FSC	FL	LC17	166- 23	145	54L93T	TTL	JANM38510/02502BDA	NSC	FP	LC11	144- 79	
36	54-86	TTL	SN54L86W	TII	MO	LC05	111- 56	146	54L93T	TTL	JANM38510/02502BDB	NSC	FP	LC11	144- 80	
37	54-86	TTL	S54F86W	Δ	FL	LC05	112- 54	147	54L93T	TTL	JANM38510/02502CDA	NSC	FP	LC11	144- 83	
38	54-86W	TTL	JANM38510/30502BAA	Δ none	FL	LC05	111- 28	148	54L93T	TTL	JANM38510/02502CDB	NSC	FP	LC11	144- 84	
39	54-86W	TTL	JANM38510/30502BAB	none	FL	LC05	111- 29	149	54L93T	TTL	SN54L93W	TII	FP	LC11	150- 1	
40	54-86W	TTL	JANM38510/30502BAC	NSC	FL	LC05	111- 30	150	54LS93	TTL	DM5493W	NSC	FP	LC11	150- 25	
41	54-86W	TTL	JANM38510/30502BDA	NSC	FL	LC05	111- 34	151	54LS93	TTL	JANM38510/01302BAA	none	FP	LC11	144- 92	
42	54-86W	TTL	JANM38510/30502BDB	Δ	FL	LC05	111- 35	152	54LS93	TTL	JANM38510/01302BAB	MOTA	FP	LC11	144- 93	
43	54-86W	TTL	JANM38510/30502BDC	NSC	FL	LC05	111- 36	153	54LS93	TTL	JANM38510/01302BDA	none	FP	LC11	144- 96	
44	54-86W	TTL	JANM38510/30502CAA	none	FL	LC05	111- 37	154	54LS93	TTL	JANM38510/01302CDB	none	FP	LC11	145- 1	
45	54-86W	TTL	JANM38510/30502CAB	none	FL	LC05	111- 38	155	54LS93	TTL	JANM38510/01302CBA	none	FP	LC11	145- 2	
46	54-86W	TTL	JANM38510/30502CAC	NSC	FL	LC05	111- 39	156	54LS93	TTL	JANM38510/01302CAB	none	FP	LC11	145- 3	
47	54-86W	TTL	JANM38510/30502CDA	NSC	FL	LC05	111- 43	157	54LS93	TTL	JANM38510/01302CDA	none	FP	LC11	145- 6	
48	54-86W	TTL	JANM38510/30502CDB	NSC	FL	LC05	111- 44	158	54LS93	TTL	JANM38510/01302CDB	none	FP	LC11	145- 7	
49	54-86W	TTL	JANM38510/30502CDC	NSC	FL	LC05	111- 45	159	54LS93	TTL	JANM38510/31502BDA	none	FP	LC11	147- 66	
50	54-86W	TTL	MC3121F	MOTA	FL	LC05	113- 6	160	54LS93	TTL	JANM38510/31502CDA	none	FP	LC11	147- 69	
51	54-86W	TTL	S54L86W	Δ	FL	LC05	111- 47	161	54LS93	TTL	SFC493PM	THEF	FL	LC11	150- 23	
52	54-86W	DTL	MC1912F	MOTA	FL	LC05	70- 63	162	54LS93	TTL	SN54L93W	TII	MO	LC11	150- 3	
53	54-86W	TTL	DM5486W	NSC	FL	LC05	111- 78	163	54LS93	TTL	SN5493AW	TII	MO	LC11	150- 7	
54	54-86W	TTL	JANM38510/00701BAB	Δ	FL	LC05	112- 7	164	54LS93	TTL	S54L93W	Δ	FP	LC11	145- 58	
55	54-86W	TTL	JANM38510/00701BAC	FSC	FL	LC05	112- 8	165	54LS93	TTL	S5493W	Δ	FP	LC11	145- 14	
56	54-86W	TTL	JANM38510/00701BDA	NSC	FL	LC05	112- 11	166	54LS93	TTL	ZN7493F	Δ FERB	FL	LC11	145- 62	
57	54-86W	TTL	JANM38510/00701BDB	Δ	FL	LC05	112- 12	167	54LS93	TTL	54LS93FM	FSC	FL	LC11	147- 101	
58	54-86W	TTL	JANM38510/00701CAA	none	FL	LC05	112- 13	168	54LS93	TTL	5493AFM	FSC	FP	LC11	152- 64	
59	54-86W	TTL	JANM38510/00701CAB	FSC	FL	LC05	112- 14	169	54-97	TTL	SN5497W	TII	MO	LC13	158- 13	
60	54-86W	TTL	JANM38510/00701CAC	FSC	FL	LC05	112- 15	170	54-100W	TTL	SN54100W	TII	MO	LC26	178- 90	
61	54-86W	TTL	JANM38510/00701CDA	NSC	FL	LC05	112- 18	171	54-100W	TTL	S54100Q	Δ	FL	LC26	178- 82	
62	54-86W	TTL	JANM38510/00701CDB	NSC	FL	LC05	112- 19	172	54-100W	TTL	S54100W	Δ	FL	LC26	178- 83	
63	54-86W	TTL	JANM38510/07501BDA	none	FL	LC05	112- 22	173	54H103	TTL	JANM38510/02206BAA	Δ none	FP	LC04	45- 1	
64	54-86W	TTL	JANM38510/07501BDB	SIC	FL	LC05	112- 23	174	54H103	TTL	JANM38510/02206BAB	MOTA	FP	LC04	45- 2	
65	54-86W	TTL	JANM38510/07501CDA	none	FL	LC05	112- 26	175	54H103	TTL	JANM38510/02206BDB	SIC	FP	LC04	45- 5	
66	54-86W	TTL	JANM38510/07501CDB	none	FL	LC05	112- 27	176	54H103	TTL	JANM38510/02206BDB	SIC	FP	LC04	45- 6	
67	54-86W	TTL	N74S86W	Δ	FL	LC05	113- 39	177	54H103	TTL	JANM38510/02206CAA	none	FP	LC04	45- 7	
68	54-86W	TTL	SFC486PM	THEF	FL	LC05	112- 67	178	54H103	TTL	JANM38510/02206CAB	none	FP	LC04	45- 8	
69	54-86W	TTL	SN54S86W	TII	MO	LC05	112- 69	179	54H103	TTL	JANM38510/02206CDA	none	FP	LC04	45- 11	
70	54-86W	TTL	SN5486W	TII	MO	LC05	112- 79	180	54H103	TTL	JANM38510/02206CDB	SIC	FP	LC04	45- 12	
71	54-86W	TTL	S54S86W	Δ	FL	LC05	112- 56	181	54H103	TTL	SN54H103W	TII	MO	LC04	46- 54	
72	54-86W	TTL	S5486W	Δ	FL	LC05	88- 26	182	54H103	TTL	S54H103W	Δ	FP	LC04	46- 8	
73	54-86W	TTL	54S86FM	FSC	FL	LC05	111- 64	183	54H103	TTL	54H103FM	FSC	FP	LC04	42- 56	
74	54-86W	TTL	5486FM	FSC	FL	LC05	111- 72	184	54-104W	TTL	9001FM	FSC	FP	LC04	40- 14	
75	54L86	TTL	N8241F	Δ	DL	LC05	113- 9	185	54-107F	TTL	JANM38510/30108BDA	none	FP	LC04	41- 40	
76	54L86	TTL	N8241N	Δ	DL	LC05	113- 10	186	54-107F	TTL	JANM38510/30108BDB	SIC	FP	LC04	41- 41	
77	54L86	TTL	S8241F	Δ	DL	LC05	113- 15	187	54-107F	TTL	JANM38510/30108CDA	none	FP	LC04	41- 44	
78	54L86T	CMS	HBC4030AK	SGAI	MO	LC05	65- 37	188	54-107F	TTL	SN54L5107AW	TII	MO	LC04	42- 30	
79	54L86T	CMS	HCC4030BK	SGAI	FL	LC05	65- 75	189	54-107F	TTL	S54L5107W	Δ	FP	LC04	42- 10	
80	54L86T	CMS	HCC4070BK	SGAI	FL	LC05	65- 28	190	54-107F	TTL	S54107W	Δ	FP	LC04	46- 28	
81	54L86T	CMS	JANM38510/05303BAA	NSC	FL	LC05	64-106	191	54-107F	TTL	54LS107FM	FSC	FP	LC04	40- 61	
82	54L86T	CMS	JANM38510/05303BAB	NSC	FL											

FUNCTIONAL EQUIVALENCE MASTER INDEX

IN ORDER OF: (1)FUNCTIONAL NO. (2) TECH
(3)TYPE NUMBER

LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	
																1	2	3
1	54S113W	TTL	JANM38510/30104BDA	none	FP	LC04	41- 25	111	54-155W	TTL	JANM38510/15202BFB	MOTA	FL	LC06	118- 52	
2	54S113W	TTL	JANM38510/30104BDB	SIC	FP	LC04	41- 26	112	54-155W	TTL	JANM38510/15202CFA	none	FL	LC06	118- 55	
3	54S113W	TTL	JANM38510/30104CAB	FSC	FP	LC04	41- 27	113	54-155W	TTL	JANM38510/15202CFB	none	FL	LC06	118- 56	
4	54S113W	TTL	JANM38510/30104CAC	FSC	FP	LC04	41- 28	114	54-155W	TTL	SN54155W	TII	MO	LC06	118- 87	
5	54S113W	TTL	JANM38510/30104CDA	none	FP	LC04	41- 31	115	54-156W	TTL	JANM38510/15203BFA	none	FL	LC06	118- 59	
6	54S113W	TTL	SN54LS113AW	TII	MO	LC04	42- 36	116	54-156W	TTL	JANM38510/15203BFB	MOTA	FL	LC06	118- 60	
7	54S113W	TTL	SN54S113W	TII	MO	LC04	46- 62	117	54-156W	TTL	JANM38510/15203CFA	none	FL	LC06	118- 63	
8	54S113W	TTL	S54LS113W	Δ	FP	LC04	42- 16	118	54-156W	TTL	JANM38510/15203CFB	none	FL	LC06	118- 64	
9	54S113W	TTL	S54S113W	Δ	FP	LC04	46- 16	119	54-156W	TTL	N74LS156W	none	MULB	FL	LC06	118- 74
10	54S113W	TTL	54LS113FM	FSC	FL	LC04	40- 66	120	54-156W	TTL	SN54156W	TII	MO	LC06	118- 89	
11	54S113W	TTL	54S113FM	FSC	FP	LC04	42- 65	121	54-156W	TTL	S54LS156W	MULB	FL	LC06	118- 79	
12	54S114W	TTL	JANM38510/30105BDA	none	FP	LC04	41- 34	122	54-160W	CMS	HCC40160BK	SGAI	FP	LC11	130- 60	
13	54S114W	TTL	JANM38510/30105CDA	none	FP	LC04	41- 37	123	54-160W	CMS	40160BFC	FSC	FP	LC11	136- 13	
14	54S114W	TTL	SN54LS114AW	TII	MO	LC04	42- 38	124	54-160W	CMS	40160BFM	FSC	FP	LC11	136- 14	
15	54S114W	TTL	SN54S114W	TII	MO	LC04	46- 64	125	54-160W	TTL	AM25LS160FM	AMD	FP	LC11	151- 77	
16	54S114W	TTL	SN74LS114AN	Δ	DL	LC04	46-100	126	54-160W	TTL	JANM38510/01303BFA	none	FP	LC11	140- 62	
17	54S114W	TTL	S54LS114W	Δ	FP	LC04	42- 18	127	54-160W	TTL	JANM38510/01303BFB	JANM38510/01303BFB	Δ	FP	LC11	140- 63
18	54S114W	TTL	S54S114W	Δ	FP	LC04	46- 18	128	54-160W	TTL	JANM38510/01303CFA	Δ	none	FP	LC11	140- 66
19	54S114W	TTL	54LS114FM	FSC	FL	LC04	40- 67	129	54-160W	TTL	JANM38510/01303CFB	AMD	FP	LC11	140- 67	
20	54S114W	TTL	54S114FM	FSC	FP	LC04	42- 66	130	54-160W	TTL	SN54LS160AW	TII	MO	LC11	142- 46	
21	54-116W	TTL	SN54S116W	TII	MO	LC26	178- 92	131	54-160W	TTL	SN54LS160W	AMD	MO	LC11	141- 66	
22	54-116W	TTL	S54116W	Δ	FL	LC26	178- 85	132	54-160W	TTL	SN54S160W	AMD	FP	LC11	143- 24	
23	54-116W	TTL	S9308Q	Δ	FL	LC26	178- 80	133	54-160W	TTL	SN54160W	Δ	FP	LC11	141- 90	
24	54-116W	TTL	93L08FM	Δ	FL	LC26	178- 99	134	54-160W	TTL	S54LS160AW	Δ	FP	LC11	141- 56	
25	54-116W	TTL	9308FM	Δ	FL	LC26	178- 38	135	54-160W	TTL	S54160W	Δ	FP	LC11	141- 62	
26	54-121	TTL	DM54121W	NSC	FL	LC10	127- 16	136	54-160W	TTL	54F160FM	FSC	FP	LC11	143- 32	
27	54-121	TTL	JANM38510/01201BAA	none	FL	LC10	125- 78	137	54-160W	TTL	54LS160FM	FSC	FP	LC11	139- 77	
28	54-121	TTL	JANM38510/01201BAB	MOTA	FL	LC10	125- 79	138	54-160W	TTL	54160FM	FSC	FP	LC11	142- 38	
29	54-121	TTL	JANM38510/01201BDA	none	FL	LC10	125- 82	139	54-160W	TTL	93L10FM	Δ	FP	LC11	140- 29	
30	54-121	TTL	JANM38510/01201BDB	SIC	FL	LC10	125- 83	140	54-160W	TTL	93S10FM	Δ	FP	LC11	143- 16	
31	54-121	TTL	JANM38510/01201CAA	none	FL	LC10	125- 84	141	54-160W	TTL	9310FM	Δ	FP	LC11	140- 40	
32	54-121	TTL	JANM38510/01201CAB	none	FL	LC10	125- 85	142	54-161	TTL	SN54S161W	Δ	AMD	FP	LC11	149- 61
33	54-121	TTL	JANM38510/01201CDA	none	FL	LC10	126- 3	143	54-161	TTL	54F161FM	FSC	FP	LC11	149- 77	
34	54-121	TTL	JANM38510/01201CDB	none	FL	LC10	126- 4	144	54-161	TTL	54LS161FM	FSC	FP	LC11	144- 63	
35	54-121	TTL	N74121W	Δ	FL	LC10	126- 68	145	54-161W	CMS	HCC40161BK	SGAI	FP	LC11	133- 95	
36	54-121	TTL	SN54L121W	TII	FL	LC10	124- 44	146	54-161W	CMS	40161BFC	FSC	FP	LC11	133- 22	
37	54-121Q	TTL	S54121Q	MULB	FL	LC10	127- 6	147	54-161W	CMS	40161BFM	FSC	FP	LC11	133- 23	
38	54-121W	TTL	S54121W	Δ	FL	LC10	127- 7	148	54-161W	TTL	AM25LS161DM	AMD	FP	LC11	149- 23	
39	54-121	TTL	54121FM	FSC	FL	LC10	127- 54	149	54-161W	TTL	JANM38510/01306BFA	none	FP	LC11	145- 79	
40	54-122	TTL	JANM38510/01202BAA	none	FL	LC10	126- 5	150	54-161W	TTL	JANM38510/01306BFB	Δ	FP	LC11	145- 80	
41	54-122	TTL	JANM38510/01202BAB	MOTA	FL	LC10	126- 6	151	54-161W	TTL	JANM38510/01306CFA	Δ	none	FP	LC11	145- 83
42	54-122	TTL	JANM38510/01202CAA	none	FL	LC10	126- 9	152	54-161W	TTL	JANM38510/01306CFB	AMD	FP	LC11	145- 84	
43	54-122	TTL	JANM38510/01202CAB	none	FL	LC10	126- 10	153	54-161W	TTL	JANM38510/31504BFB	AMD	FP	LC11	146- 35	
44	54-122	TTL	JANM38510/31403BAA	none	FL	LC10	125- 49	154	54-161W	TTL	JANM38510/31504CFB	AMD	FP	LC11	146- 37	
45	54-122	TTL	JANM38510/31403BAB	none	FL	LC10	125- 50	155	54-161W	TTL	SN54LS161AW	TII	MO	LC11	148- 25	
46	54-122	TTL	JANM38510/31403CAA	none	FL	LC10	125- 53	156	54-161W	TTL	SN54LS161W	AMD	MO	LC11	147- 15	
47	54-122	TTL	JANM38510/31403CAB	none	FL	LC10	125- 54	157	54-161W	TTL	SN54161W	Δ	MO	LC11	147- 41	
48	54-122	TTL	M53232P	MITJ	DL	LC10	124- 55	158	54-161W	TTL	S54LS161AF	Δ	DL	LC11	148- 66	
49	54-122	TTL	SFC4122PM	THEF	FL	LC10	124- 54	159	54-161W	TTL	S54LS161AW	Δ	FP	LC11	148- 67	
50	54-122	TTL	SN54LS122W	TII	MO	LC10	126- 52	160	54-161W	TTL	S54161W	Δ	FP	LC11	147- 5	
51	54-122	TTL	SN54L122W	TII	FL	LC10	126- 49	161	54-161W	TTL	54161FM	Δ	FSC	FP	LC11	148- 3
52	54-122	TTL	SN54122W	TII	MO	LC10	124- 72	162	54-161W	TTL	93L16FM	Δ	FP	LC11	145- 30	
53	54-122	TTL	S54122Q	MULB	FL	LC10	127- 9	163	54-161W	TTL	93S16FM	Δ	FP	LC11	143- 20	
54	54-122	TTL	S54122W	Δ	FL	LC10	127- 10	164	54-161W	TTL	93S16FM#	Δ	FSC	FP	LC11	145- 35
55	54-122	TTL	54122FM	FSC	FL	LC10	125- 62	165	54-161W	TTL	9316FM	Δ	FP	LC11	152- 84	
56	54-123	TTL	AM26123FM	AMD	FL	LC10	124- 62	166	54-162	TTL	SN54162W	Δ	DL	LC11	141- 92	
57	54-123	TTL	DM7853W	NSC	FL	LC10	125- 70	167	54-162W	CMS	CD40162BMW	NSC	FP	LC11	136- 6	
58	54-123	TTL	DM8853W	NSC	FL	LC10	125- 73	168	54-162W	CMS	HCC40162BK	SGAI	FP	LC11	130- 63	
59	54-123	TTL	JANM38510/01203BFA	none	FL	LC10	126- 15	169	54-162W	CMS	40162BFC	FSC	FP	LC11	136- 18	
60	54-123	TTL	JANM38510/01203BFB	Δ	FL	LC10	126- 16	170	54-162W	CMS	40162BFM	FSC	FP	LC11	136- 19	
61	54-123	TTL	JANM38510/01203CFA	none	FL	LC10	126- 19	171	54-162W	TTL	AM25LS162DM	AMD	FP	LC11	151- 80	
62	54-123	TTL	JANM38510/01203CFB	none	FL	LC10	126- 20	172	54-162W	TTL	JANM38510/01305BFA	none	FP	LC11	140- 70	
63	54-123	TTL	JANM38510/31401BFA	none	FL	LC10	125- 43	173	54-162W	TTL	JANM38510/01305BFB	JANM38510/01305BFB	MOTA	FP	LC11	140- 71
64	54-123	TTL	JANM38510/31401CFA	none	FL	LC10	125- 46	174	54-162W	TTL	JANM38510/01305CFA	none	FP	LC11	140- 74	
65	54-123	TTL	SN54LS123W	TII	MO	LC10	126- 54	175	54-162W	TTL	JANM38510/01305CFB	none	FP	LC11	140- 75	
66	54-123	TTL	SN54123W	Δ	MO	LC10	124- 74	176	54-162W	TTL	SN54LS162AW	TII	MO	LC11	142- 48	
67	54-123	TTL	S54LS123AW	Δ	FL	LC10	127- 2	177	54-162W	TTL	SN54LS162W	AMD	MO	LC11	141- 68	
68	54-123	TTL	S54123W	Δ	FL	LC10	127- 12	178	54-162W	TTL	SN54S162W	TII	MO	LC11	142- 85	
69	54-123	TTL	54123FM	FSC	FL	LC10	124- 57	179	54-162W	TTL	S54LS162AW	Δ	FP	LC11	141- 58	
70	54LS124	TTL	SN54LS124W	TII	MO	LC12	155- 51	180	54-162W	TTL	54F162FM	FSC	FP	LC11	143- 34	
71	54LS124	TTL	SN54S124W	TII	MO	LC12	155- 55	181	54-162W	TTL	54LS162FM	FSC	FP	LC11	139- 78	
72	54S133W	TTL	JANM38510/07009BFA	none	FL	LC05	103- 52	182	54-162W	TTL	54162FM	FSC	FP	LC11	142- 39	
73	54S133W	TTL	JANM38510/07009BFB	Δ	FL	LC05	103- 53	183	54-163W	CMS	CD40163BMW	NSC	FP	LC11	132- 10	
74	54S133W	TTL	JANM38510/07009CFA	none	FL	LC05	104- 1	184	54-163W	CMS	HCC40163BK	SGAI	FP	LC11	133- 98	
75	54S133W	TTL	JANM38510/07009CFB	none	FL	LC05	104- 2	185	54-163W	CMS	40163BFC	FSC	FP	LC11	133- 27	
76	54S133W	TTL	N74S133W	Δ	FL	LC05	105- 21	186	54-163W	CMS	40163BFM	FSC	FP	LC11	133- 28	
77	54S133W	TTL	SN54S133W	TII	MO	LC05	107- 4	187	54-163W	TTL	AM25LS163FM	AMD	FP	LC11	149- 28	
78	54S133W	TTL	S54S133W	Δ	FL	LC05	105- 70	188	54-163W	TTL	JANM38510/01304BFA	none	FP	LC11	145- 71	
79	54S133W	TTL	54LS133FM	FSC	FL	LC05	94- 46	189	54-163W	TTL	JANM38510/01304BFB	Δ	FP	LC11	145- 72	
80	54S133W	TTL	54S133FM	FSC	FL	LC05	98- 49	190	54-163W	TTL	JANM38510/01304CFA	Δ	none	FP	LC11	145- 75
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FUNCTIONAL EQUIVALENCE MASTER INDEX

IN ORDER OF: (1)FUNCTIONAL NO. (2) TECH
(3)TYPE NUMBER

LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	
1	54-174	CMS	HCC40174BF	SGAI	DL	LC04	35- 83	111	54-182	TTL	JANM38510/01102CFA	none	FL	LC19	170-100	
2	54-174	CMS	HCC40174BK	SGAI	FP	LC04	35- 84	112	54-182	TTL	JANM38510/01102CFB	none	FL	LC19	170-101	
3	54-174	CMS	HCC40174BE	SGAI	DL	LC04	35- 87	113	54-182	TTL	SN54S182W	TII	MO	LC19	170- 67	
4	54-174	CMS	HEF40174BF	SGAI	DL	LC04	35- 88	114	54-182	TTL	SN54182W	Δ	MO	LC19	170- 91	
5	54-174	CMS	HEF40174P	Δ	DL	LC04	37- 11	115	54-182	TTL	S54S182F	Δ	DL	LC19	170- 64	
6	54-174	CMS	M40174BP	Δ	DL	LC04	36- 7	116	54-182	TTL	S54182F	Δ	DL	LC19	170- 85	
7	54-174	CMS	T40174BP	TOSJ	DL	LC04	36- 11	117	54-182	TTL	S54182W	Δ	FL	LC19	170- 86	
8	54-174	TTL	DM54S174J#mil	NSC	DL	LC04	53- 49	118	54-182	TTL	54F182FM	FSC	FL	LC19	170- 46	
9	54-174	TTL	DM54S174W#mil	NSC	FP	LC04	53- 50	119	54-182	TTL	54S182FM	FSC	FL	LC19	170- 59	
10	54-174	TTL	DM54S174J#mil	NSC	DL	LC04	53- 53	120	54-182	TTL	93S42FM	FSC	FL	LC19	170- 72	
11	54-174	TTL	DM54S174W#mil	NSC	FP	LC04	53- 54	121	54-182	TTL	9342FM	Δ	FL	LC19	170- 76	
12	54-174	TTL	DM54174J#mil	NSC	DL	LC04	53- 64	122	54H183W	TTL	SN54H183W	TII	MO	LC15	160- 44	
13	54-174	TTL	DM54174W#mil	NSC	FP	LC04	53- 65	123	54H183W	TTL	SN54S183W	TII	MO	LC15	160- 88	
14	54-174	TTL	DM74S174N	NSC	DL	LC04	53- 57	124	54H183W	TTL	54H183FM	FSC	FL	LC15	160- 76	
15	54-174	TTL	DM74S174N	NSC	DL	LC04	53- 59	125	54-190W	TTL	AM25LS190FM	AMD	FP	LC11	142- 7	
16	54-174	TTL	DM74174N	NSC	DL	LC04	53- 67	126	54-190W	TTL	DM74190W	NSC	FP	LC11	141- 32	
17	54-174	TTL	JANM38510/07105BEB	Δ	DL	LC04	50- 58	127	54-190W	TTL	N74190W	Δ	FP	LC11	141- 54	
18	54-174	TTL	JANM38510/07105BFB	Δ	AMD	FP	LC04	50- 59	128	54-190W	TTL	SN54LS190W	Δ	MO	LC11	141- 71
19	54-174	TTL	JANM38510/07105CEB	Δ	DL	LC04	50- 60	129	54-190W	TTL	SN54190W	TII	MO	LC11	141- 94	
20	54-174	TTL	JANM38510/07105CFB	Δ	AMD	FP	LC04	50- 61	130	54-190W	TTL	S54LS190W	Δ	FP	LC11	143- 99
21	54-174	TTL	M74LS175P	MITJ	DL	LC04	51- 76	131	54-190W	TTL	S54190W	Δ	FP	LC11	141- 8	
22	54-174	TTL	S54S174W	SIC	FP	LC04	54- 24	132	54-190W	TTL	54LS190FM	FSC	FP	LC11	140- 55	
23	54-174W	TTL	JANM38510/01701BFA	none	FP	LC04	52- 3	133	54-190W	TTL	54190FM	FSC	FP	LC11	141- 26	
24	54-174W	TTL	JANM38510/01701BFB	Δ	FP	LC04	52- 4	134	54-191	TTL	S54191W	Δ	DL	LC11	143-101	
25	54-174W	TTL	JANM38510/01701CFA	none	FP	LC04	52- 7	135	54-191W	TTL	AM25LS191FM	AMD	FP	LC11	147- 78	
26	54-174W	TTL	JANM38510/01701CFB	FSC	FP	LC04	52- 8	136	54-191W	TTL	DM74191W	NSC	FP	LC11	146- 59	
27	54-174W	TTL	SN54S174W	AMD	FP	LC04	53- 8	137	54-191W	TTL	N74191W	Δ	FP	LC11	147- 1	
28	54-174W	TTL	S54LS174W	SIC	FP	LC04	53- 40	138	54-191W	TTL	SN54LS191W	Δ	MO	LC11	147- 20	
29	54-174W	TTL	S54174W	SIC	FP	LC04	54- 28	139	54-191W	TTL	SN54191W	TII	MO	LC11	147- 45	
30	54-175W	TTL	JANM38510/01702BFA	none	FP	LC04	52- 11	140	54-191W	TTL	S54LS191W	Δ	FP	LC11	150- 60	
31	54-175W	TTL	JANM38510/01702BFB	Δ	FP	LC04	52- 12	141	54-191W	TTL	54LS191FM	FSC	FP	LC11	148- 44	
32	54-175W	TTL	JANM38510/01702CFA	none	FP	LC04	52- 15	142	54-191W	TTL	54191FM	FSC	FP	LC11	146- 41	
33	54-175W	TTL	JANM38510/01702CFB	FSC	FP	LC04	52- 16	143	54-192	TTL	S54192W	Δ	DL	LC11	150- 81	
34	54-175W	TTL	SN54S175W	AMD	FP	LC04	53- 10	144	54-192	TTL	93L60PC	AMD	FP	LC11	141- 25	
35	54-175W	TTL	S54LS175W	SIC	FP	LC04	53- 42	145	54-192W	TTL	AM25LS192FM	AMD	FP	LC11	142- 90	
36	54-175W	TTL	S54175W	SIC	FP	LC04	54- 30	146	54-192W	CMS	CD40192EMW	NSC	FP	LC11	136- 10	
37	54-175W	TTL	54F175FM	FSC	FP	LC04	51- 10	147	54-192W	CMS	40192BFC	FSC	FP	LC11	129- 85	
38	54-175W	TTL	54LS175FM	FSC	FP	LC04	50- 35	148	54-192W	CMS	40192BFM	FSC	FP	LC11	129- 86	
39	54-175W	TTL	54S175FM	FSC	FP	LC04	51- 28	149	54-192W	CMS	DM54192W	NSC	FP	LC11	142- 13	
40	54-175W	TTL	54175FM	FSC	FP	LC04	51- 53	150	54-192W	TTL	DM7560W	NSC	FP	LC11	142- 10	
41	54-176	TTL	SN54S196W	TII	MO	LC11	145- 26	151	54-192W	TTL	JANM38510/01308BFA	none	FP	LC11	151- 13	
42	54-176W	TTL	DM7280W	NSC	FP	LC11	149- 11	152	54-192W	TTL	JANM38510/01308BFB	none	MOTA	FP	LC11	151- 14
43	54-176W	TTL	DM74176W	NSC	FP	LC11	149- 17	153	54-192W	TTL	JANM38510/01308CFA	none	FP	LC11	151- 17	
44	54-176W	TTL	DM8280W	NSC	FP	LC11	149- 14	154	54-192W	TTL	JANM38510/01308CFB	none	FP	LC11	151- 18	
45	54-176W	TTL	N8280Q	Δ	FL	LC11	151- 33	155	54-192W	TTL	SN54LS192W	Δ	MO	LC11	142- 49	
46	54-176W	TTL	N8288Q	Δ	FL	LC11	146- 81	156	54-192W	TTL	SN54192W	Δ	MO	LC11	142- 55	
47	54-176W	TTL	N8290Q	Δ	FL	LC11	143- 6	157	54-192W	TTL	S54LS192W	Δ	FP	LC11	152- 35	
48	54-176W	TTL	N8292Q	Δ	FL	LC11	140- 17	158	54-192W	TTL	SN54192R	Δ	FP	LC11	151- 37	
49	54-176W	TTL	SN54LS196W	TII	MO	LC11	142- 93	159	54-192W	TTL	54LS192FM	FSC	FP	LC11	151- 66	
50	54-176W	TTL	SN54176W	TII	MO	LC11	152- 40	160	54-192W	TTL	54192FM	FSC	FP	LC11	141- 27	
51	54-176W	TTL	SN54196W	TII	MO	LC11	142-103	161	54-192W	TTL	9360FM	AMD	FP	LC11	142- 35	
52	54-176W	TTL	S54LS196W	Δ	FP	LC11	142- 25	162	54-193	TTL	SN54193W	Δ	MO	LC11	148- 36	
53	54-176W	TTL	S8280W	Δ	FP	LC11	140- 21	163	54-193	TTL	S54193W	Δ	DL	LC11	152- 37	
54	54-176W	TTL	S8290W	Δ	FP	LC11	141- 6	164	54-193W	CMS	CD40193EMW	NSC	FP	LC11	133- 16	
55	54-176W	TTL	S8292W	Δ	FP	LC11	139- 97	165	54-193W	CMS	40193BFC	FSC	FP	LC11	132- 50	
56	54-176W	TTL	54LS196FM	FSC	FP	LC11	143- 3	166	54-193W	CMS	40193BFM	FSC	FP	LC11	132- 51	
57	54-176W	TTL	54176FM	FSC	FP	LC11	152- 72	167	54-193W	TTL	AM25LS193FM	AMD	FP	LC11	149- 8	
58	54-176W	TTL	54196FM	FSC	FP	LC11	143- 5	168	54-193W	TTL	DM54193W	NSC	FP	LC11	147- 84	
59	54-177	TTL	SN54197W	TII	MO	LC11	149- 37	169	54-193W	TTL	DM7563W	NSC	FP	LC11	147- 81	
60	54-177W	TTL	DM7281W	NSC	FP	LC11	143- 40	170	54-193W	TTL	JANM38510/01309BFA	none	FP	LC11	146- 3	
61	54-177W	TTL	DM74177W	NSC	FP	LC11	143- 46	171	54-193W	TTL	JANM38510/01309BFB	Δ	FP	LC11	146- 4	
62	54-177W	TTL	DM8281W	NSC	FP	LC11	143- 43	172	54-193W	TTL	JANM38510/01309CFA	Δ	FP	LC11	146- 7	
63	54-177W	TTL	N8281Q	Δ	FL	LC11	146- 79	173	54-193W	TTL	JANM38510/01309CFB	none	FP	LC11	146- 8	
64	54-177W	TTL	SN54LS197W	TII	MO	LC11	147- 97	174	54-193W	TTL	SN54LS193W	Δ	DL	LC11	147- 96	
65	54-177W	TTL	SN54S197W	TII	MO	LC11	149- 63	175	54-193W	TTL	S54LS193W	Δ	FP	LC11	150- 78	
66	54-177W	TTL	SN54177W	TII	MO	LC11	150-103	176	54-193W	TTL	S54193R	Δ	FP	LC11	147- 11	
67	54-177W	TTL	S54LS197W	Δ	FP	LC11	147- 94	177	54-193W	TTL	54LS193FM	FSC	FP	LC11	148- 76	
68	54-177W	TTL	S8281W	Δ	FP	LC11	145- 16	178	54-193W	TTL	54193FM	FSC	FP	LC11	147- 73	
69	54-177W	TTL	54177FM	FSC	FP	LC11	144- 74	179	54-193W	TTL	93L66PC	AMD	FP	LC11	153- 3	
70	54-177W	TTL	54197FM	FSC	FP	LC11	149- 44	180	54-193W	TTL	9366FM	AMD	FP	LC11	153- 11	
71	54-180W	TTL	DM74180W	NSC	FP	LC25	173- 46	181	54-221	TTL	SN54LS221W	TII	MO	LC10	127- 27	
72	54-180W	TTL	JANM38510/01901BAA	none	FP	LC25	172- 83	182	54-221	TTL	SN54221W	Δ	MO	LC10	127- 67	
73	54-180W	TTL	JANM38510/01901BAB	MOTA	FL	LC25	172- 84	183	54-221	TTL	S54LS221W	Δ	FL	LC10	127- 4	
74	54-180W	TTL	JANM38510/01901BDA	NSC	FL	LC25	172- 87	184	54-221	TTL	S54221W	Δ	FL	LC10	127- 14	
75	54-180W	TTL	JANM38510/01901BDB	Δ	FL	LC25	172- 88	185	54LS256W	TTL	S54LS256W	Δ	FL	LC26	179- 10	
76	54-180W	TTL	JANM38510/01901CAA	none	FL	LC25	172- 89	186	54LS256W	TTL	54LS256FM	FSC	FL	LC26	178- 67	
77	54-180W	TTL	JANM38510/01901CAB	none	FL	LC25	172- 90	187	54-259W	TTL	AM93L34FM	AMD	FL	LC26	181- 11	
78	54-180W	TTL	JANM38510/01901CDA	NSC	FL	LC25	172- 93	188	54-259W	TTL	AM9334FM	AMD	FL	LC26	180- 64	
79	54-180W	TTL	JANM38510/01901CDB	NSC	FL	LC25	172- 94	189	54-259W	TTL	DM8334W	NSC	FL	LC26	180- 68	
80	54-180W	TTL	SFC4180PM	THEF	FL	LC25	172- 82	190	54-259W	TTL	DM9334W	NSC	FL	LC26	180- 70	
81	54-180W	TTL	SN54180W	TII	MO	LC25	173- 53	191	54-259W	TTL	SN54LS259W	TII	MO	LC26	180- 9	
82	54-180W	TTL	S54180W	Δ	FL	LC25	173- 51	192	54-259W	TTL	SN54259W	TII	MO	LC26	180- 49	
83	54-180W	TTL	54180FM	Δ	FL	LC25	172- 74	193	54-259W	TTL	S54LS259W					

FUNCTIONAL EQUIVALENCE MASTER INDEX

IN ORDER OF: (1)FUNCTIONAL NO. (2) TECH
(3)TYPE NUMBER

LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GPE	USE CODE	PAGE & LINE	LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GPE	USE CODE	PAGE & LINE
1	54-279W	TTL	S54LS279W	Δ	SIC	FL LC26	177- 31	111	74-00N	DTL	SFC946E	THEF	DL	LC05	70- 39
2	54S280	TTL	S54F280AF	TII	MO	FL LC25	172- 96	112	74-00N	DTL	SN15846N	TII	DL	LC05	70- 45
3	54S280W	TTL	SN54LS280W	TII	MO	FL LC25	173- 32	113	74-00N	DTL	SN15849FR	TII	DL	LC05	68- 65
4	54S280W	TTL	SN54S280W	TII	MO	FL LC25	173- 7	114	74-00N	DTL	SN15849N	TII	DL	LC05	68- 67
5	54S280W	TTL	S54S280W	Δ	FL	DL LC25	173- 5	115	74-00N	DTL	SN15946N	TII	DL	LC05	68- 77
6	54S280W	TTL	S54F280FM	FSC	DL	LC25	173- 11	116	74-00N	DTL	SN15949J	TII	DL	LC05	68- 79
7	54S280W	TTL	S54S280FM	FSC	FL	LC25	173- 1	117	74-00N	DTL	SN15949N	TII	DL	LC05	68- 80
8	54-283	TTL	JANM38510/31202BFA	none	FL	LC15	162- 8	118	74-00N	DTL	946DM	FSC	DL	LC05	68- 18
9	54-283	TTL	JANM38510/31202BFB	none	FL	LC15	162- 9	119	74-00N	DTL	949DC	FSC	DL	LC05	70- 30
10	54-283	TTL	JANM38510/31202CFA	FSC	FL	LC15	162- 12	120	74-00N	DTL	949DM	FSC	DL	LC05	70- 20
11	54-283	TTL	SN54LS283W	TII	MO	FL LC15	161- 61	121	74-00N	DTL	9946BC	SGAI	DL	LC05	68- 41
12	54-283	TTL	SN54S283W	TII	MO	FL LC15	161- 71	122	74-00N	DTL	9946DC	SGAI	DL	LC05	68- 42
13	54-283	TTL	S54LS283W	Δ	FL	LC15	161- 55	123	74-00N	DTL	9946DM	SGAI	DL	LC05	68- 28
14	54-283	TTL	54LS283FM	FSC	FL	LC15	160- 31	124	74-00N	TTL	DM54H00J	NSC	DL	LC05	99- 16
15	54-283	TTL	54LS283W	FSC	FL	LC15	160- 32	125	74-00N	TTL	DM54L00J	NSC	DL	LC05	94- 47
16	54-284	TTL	SN54S284W	TII	MO	LC16	163- 49	126	74-00N	TTL	DM5400J	NSC	DL	LC05	99- 37
17	54-285	TTL	SN54S285W	TII	MO	LC16	163- 51	127	74-00N	TTL	DM5437J	NSC	DL	LC05	99- 48
18	54-290W	TTL	SN54LS290W	TII	MO	LC11	143- 65	128	74-00N	TTL	DM74H00N	NSC	DL	LC05	99- 22
19	54-290W	TTL	SN54S290W	TII	MO	LC11	143- 69	129	74-00N	TTL	DM74L00N	NSC	DL	LC05	94- 55
20	54-290W	TTL	S54LS290W	Δ	FP	LC11	142- 27	130	74-00N	TTL	DM74S00N	NSC	DL	LC05	99- 30
21	54-290W	TTL	54LS290FM	FSC	FL	LC11	151- 72	131	74-00N	TTL	DM7400N	NSC	DL	LC05	99- 60
22	54LS292	TTL	SN54LS292W #mil	TII	FL	LC13	157-104	132	74-00N	TTL	DM7437N	NSC	DL	LC05	99- 66
23	54-293W	TTL	SN54LS293W	TII	MO	LC11	150- 27	133	74-00N	TTL	FJH131-7400	PHIN	DL	LC05	99- 78
24	54-293W	TTL	SN54S293W	TII	MO	LC11	150- 31	134	74-00N	TTL	JANM38510/00104BCA	NSC	DL	LC05	101- 3
25	54-293W	TTL	S54LS293W	Δ	FP	LC11	145- 60	135	74-00N	TTL	JANM38510/00104BCB	NSC	DL	LC05	101- 4
26	54-293W	TTL	54LS293FM	FSC	FL	LC11	149- 19	136	74-00N	TTL	JANM38510/00104CCA	NSC	DL	LC05	101- 10
27	54LS294	TTL	SN54LS294W #mil	TII	FL	LC13	157-106	137	74-00N	TTL	JANM38510/00104CCB	Δ	DL	LC05	101- 11
28	54LS320	TTL	SN54LS320W	TII	MO	LC12	155- 9	138	74-00N	TTL	JANM38510/02004BCA	NSC	DL	LC05	95- 14
29	54LS321	TTL	SN54LS321W	TII	MO	LC12	155- 11	139	74-00N	TTL	JANM38510/02004BCB	NSC	DL	LC05	95- 15
30	54LS324	TTL	SN54LS324W	TII	MO	LC12	155- 25	140	74-00N	TTL	JANM38510/02004CCA	NSC	DL	LC05	95- 20
31	54LS325	TTL	SN54LS325W	TII	MO	LC12	155- 19	141	74-00N	TTL	JANM38510/02004CCB	NSC	DL	LC05	95- 21
32	54LS326	TTL	SN54LS326W	TII	MO	LC12	155- 21	142	74-00N	TTL	JANM38510/02304BCA	none	DL	LC05	102- 17
33	54LS327	TTL	SN54LS327W	TII	MO	LC12	155- 23	143	74-00N	TTL	JANM38510/02304BCB	Δ	DL	LC05	102- 18
34	54LS363W	TTL	AM25LS373FM	AMD	FL	LC26	180- 78	144	74-00N	TTL	JANM38510/02304CCA	none	DL	LC05	102- 23
35	54LS363W	TTL	S54F373FM	FSC	FL	LC26	179- 45	145	74-00N	TTL	JANM38510/02304CCB	FSC	DL	LC05	102- 24
36	54LS363W	TTL	54LS373FM	FSC	FL	LC26	178- 12	146	74-00N	TTL	JANM38510/07001BCA	SIC	DL	LC04	52- 25
37	54S374W	TTL	S54F374FM	FSC	FP	LC04	51- 12	147	74-00N	TTL	JANM38510/07001BCB	Δ	DL	LC04	52- 26
38	54S374W	TTL	54LS374FM	FSC	FP	LC04	51- 18	148	74-00N	TTL	JANM38510/07001CCA	none	DL	LC04	52- 29
39	54LS375W	TTL	SN54LS375W	TII	MO	LC26	177- 62	149	74-00N	TTL	JANM38510/07001CCB	FSC	DL	LC04	52- 30
40	54LS375W	TTL	S54LS375W	Δ	FL	LC26	177- 57	150	74-00N	TTL	JANM38510/30001BCA	NSC	DL	LC05	95- 29
41	54LS375W	TTL	54LS375FM	FSC	FL	LC26	177- 39	151	74-00N	TTL	JANM38510/30001BCC	NSC	DL	LC05	95- 30
42	54-376W	TTL	SN54S376W	TII	DL	LC04	49- 10	152	74-00N	TTL	JANM38510/30001CCA	NSC	DL	LC05	95- 37
43	54LS377W	TTL	54LS377FM	FSC	FP	LC04	50- 11	153	74-00N	TTL	JANM38510/30001CCC	NSC	DL	LC05	95- 38
44	54LS378W	TTL	S54LS378W	SIC	FP	LC04	53- 48	154	74-00N	TTL	MB400	FCAJ	DL	LC05	104- 44
45	54LS378W	TTL	54LS378FM	FSC	FP	LC04	50- 13	155	74-00N	TTL	MB400M	FCAJ	DL	LC05	104- 45
46	54LS381	TTL	AM25LS381FM	AMD	FL	LC18	168- 58	156	74-00N	TTL	MB401	FCAJ	DL	LC05	104- 46
47	54LS381	TTL	SN54LS381W	AMD	FL	LC18	168- 65	157	74-00N	TTL	MB401M	FCAJ	DL	LC05	104- 47
48	54LS382	TTL	AM25LS2517FM	AMD	FL	LC18	168- 62	158	74-00N	TTL	MB435	FCAJ	DL	LC05	104- 60
49	54LS384	TTL	SN54LS384W	TII	MO	LC16	163- 80	159	74-00N	TTL	MB435M	FCAJ	DL	LC05	104- 61
50	54LS384	TTL	54LS384FM	FSC	FL	LC16	163- 84	160	74-00N	TTL	MB601	FCAJ	DL	LC05	104- 62
51	54LS385W	TTL	AM25LS15FM	AMD	FL	LC15	162- 43	161	74-00N	TTL	MB74LS00	FCAJ	DL	LC05	104- 20
52	54LS386W	TTL	SN54LS386W	TII	MO	LC05	111- 60	162	74-00N	TTL	MB74LS00M	FCAJ	DL	LC05	104- 21
53	54LS386W	TTL	S54LS386W	Δ	FL	LC05	111- 51	163	74-00N	TTL	MB74LS37	FCAJ	DL	LC05	104- 38
54	54LS386W	TTL	54LS386FM	FSC	FL	LC05	111- 16	164	74-00N	TTL	MB74LS37M	FCAJ	DL	LC05	104- 39
55	54-390	TTL	54LS390FM	FSC	FP	LC11	140- 57	165	74-00N	TTL	M53200P	MITJ	DL	LC05	104- 11
56	54-390W	TTL	SN54LS390W	TII	MO	LC11	141- 10	166	74-00N	TTL	M53237P	MITJ	DL	LC05	104- 17
57	54-390W	TTL	SN54S390W	TII	MO	LC11	142- 72	167	74-00N	TTL	M74ALS00AP	MITJ	DL	LC05	99-109
58	54-390W	TTL	S54LS390W	Δ	FP	LC11	141- 4	168	74-00N	TTL	M74LS00P	MITJ	DL	LC05	100- 13
59	54-393W	TTL	SN54LS393W	TII	MO	LC11	146- 16	169	74-00N	TTL	M74LS37P	MITJ	DL	LC05	100- 20
60	54-393W	TTL	SN54S393W	TII	MO	LC11	148- 72	170	74-00N	TTL	N74H00A	PHIN	DL	LC05	104- 77
61	54-393W	TTL	S54LS393W	Δ	FP	LC11	147- 3	171	74-00N	TTL	N74H00N	Δ	DL	LC05	104- 79
62	54-393W	TTL	54LS393FM	FSC	FP	LC11	145- 64	172	74-00N	TTL	N74LS00D	SIC	DL	LC05	104- 91
63	54-406	TTL	MC2408F	MOTA	DL	LC06	118- 70	173	74-00N	TTL	N74LS00N	Δ	DL	LC05	104- 92
64	54-406W	TTL	MC2408F	MOTA	DL	LC25	172- 71	174	74-00N	TTL	N74S00D	SIC	DL	LC05	105- 9
65	54-490W	TTL	SN54LS490W	TII	MO	LC11	141- 12	175	74-00N	TTL	N74S00N	Δ	DL	LC05	105- 10
66	54-490W	TTL	SN54S490W	TII	MO	LC11	143- 73	176	74-00N	TTL	N7400F	Δ	DL	LC05	105- 25
67	54-490W	TTL	S54LS490W	Δ	FP	LC11	141- 60	177	74-00N	TTL	N7400N	Δ	DL	LC05	105- 26
68	54-490W	TTL	54LS490FM	FSC	FP	LC11	142- 76	178	74-00N	TTL	N8H80A	Δ	DL	LC05	110-100
69	54-521	TTL	S54F521W	Δ	FL	LC17	165- 98	179	74-00N	TTL	N8480A	Δ	DL	LC05	109- 99
70	54LS533W	TTL	AM25LS533FM	AMD	FL	LC26	180- 82	180	74-00N	TTL	N8480F	Δ	DL	LC05	109-100
71	54LS533W	TTL	AM25S533W	AMD	FL	LC26	180- 87	181	74-00N	TTL	SFC400E	THEF	DL	LC05	105- 89
72	54LS533W	TTL	S54F533FM	FSC	FL	LC26	179- 56	182	74-00N	TTL	SFC400EM	THEF	DL	LC05	105- 90
73	54LS533W	TTL	54LS533FM	FSC	FL	LC26	178- 19	183	74-00N	TTL	SFC400E	THEF	DL	LC05	105- 91
74	54LS534	TTL	S54F534W	Δ	FP	LC04	54- 22	184	74-00N	TTL	SFC400HE	THEF	DL	LC05	105- 92
75	54LS534	TTL	54LS534FM	FSC											

FUNCTIONAL EQUIVALENCE MASTER INDEX

IN ORDER OF: (1)FUNCTIONAL NO. (2) TECH
(3)TYPE NUMBER

LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE
1	74-00N	TTL	SN74S00N	TII	DL	LC05	107- 89	111	74-02N	TTL	JANM38510/07301BCB	SIC	DL	LC05	91- 63
2	74-00N	TTL	SN74S37J	TII	DL	LC05	107-100	112	74-02N	TTL	JANM38510/07301CCB	none	DL	LC05	92- 2
3	74-00N	TTL	SN74S37N	TII	DL	LC05	107-101	113	74-02N	TTL	JANM38510/30301BCA	none	DL	LC05	90- 2
4	74-00N	TTL	SN7400J	TII	DL	LC05	108- 24	114	74-02N	TTL	JANM38510/30301BCB	Δ	DL	LC05	90- 3
5	74-00N	TTL	SN7400N	TII	DL	LC05	108- 25	115	74-02N	TTL	JANM38510/30301BCC	NSC	DL	LC05	90- 4
6	74-00N	TTL	SN7437J	TII	DL	LC05	108- 41	116	74-02N	TTL	JANM38510/30301CCA	NSC	DL	LC05	90- 10
7	74-00N	TTL	SN7437N	TII	DL	LC05	108- 42	117	74-02N	TTL	JANM38510/30301CCB	Δ	DL	LC05	90- 11
8	74-00N	TTL	S54H00F	Δ	DL	LC05	105- 47	118	74-02N	TTL	JANM38510/30301CCC	NSC	DL	LC05	90- 12
9	74-00N	TTL	S54LS00F	Δ	DL	LC05	97- 30	119	74-02N	TTL	MB74LS02	FCAJ	DL	LC05	92- 8
10	74-00N	TTL	S54S00F	Δ	DL	LC05	105- 59	120	74-02N	TTL	MB74LS02M	FCAJ	DL	LC05	92- 9
11	74-00N	TTL	S5400F	Δ	DL	LC05	105- 74	121	74-02N	TTL	MB74LS28	FCAJ	DL	LC05	92- 12
12	74-00N	TTL	S8H80A	Δ	DL	LC05	110-110	122	74-02N	TTL	MB74LS28M	FCAJ	DL	LC05	92- 13
13	74-00N	TTL	T54LS00D2	SGAI	DL	LC05	98- 11	123	74-02N	TTL	M53202P	MITJ	DL	LC05	92- 5
14	74-00N	TTL	T74LS00D1	SGAI	DL	LC05	108- 48	124	74-02N	TTL	M74LS02P	MITJ	DL	LC05	91- 20
15	74-00N	TTL	54F00DM	FSC	DL	LC05	98- 20	125	74-02N	TTL	N74LS02D	SIC	DL	LC05	92- 20
16	74-00N	TTL	54H00DM	FSC	DL	LC05	98- 26	126	74-02N	TTL	N74LS02N	Δ	DL	LC05	92- 21
17	74-00N	TTL	54LS00DM	FSC	DL	LC05	94- 32	127	74-02N	TTL	N74S02D	SIC	DL	LC05	92- 26
18	74-00N	TTL	54S00DM	FSC	DL	LC05	98- 38	128	74-02N	TTL	N74S02N	Δ	DL	LC05	92- 27
19	74-00N	TTL	5400DM	FSC	DL	LC05	98- 98	129	74-02N	TTL	N7402F	Δ	DL	LC05	92- 30
20	74-00N	TTL	5437DM	FSC	DL	LC05	98-106	130	74-02N	TTL	N7402N	Δ	DL	LC05	92- 31
21	74-00N	TTL	74F00DC	FSC	DL	LC05	98- 51	131	74-02N	TTL	SFC402E	THEF	DL	LC05	92- 52
22	74-00N	TTL	74F00PC	FSC	DL	LC05	98- 52	132	74-02N	TTL	SFC402EM	THEF	DL	LC05	92- 53
23	74-00N	TTL	74H00DC	FSC	DL	LC05	98- 57	133	74-02N	TTL	SFC402ET	THEF	DL	LC05	92- 54
24	74-00N	TTL	74H00PC	FSC	DL	LC05	98- 58	134	74-02N	TTL	SFC402EV	THEF	DL	LC05	92- 55
25	74-00N	TTL	74LS00DC	FSC	DL	LC05	98- 69	135	74-02N	TTL	SN54LS02J	Δ	DL	LC05	90- 39
26	74-00N	TTL	74LS00PC	FSC	DL	LC05	98- 70	136	74-02N	TTL	SN54LS28J	TII	DL	LC05	90- 43
27	74-00N	TTL	74LS37DC	FSC	DL	LC05	98- 82	137	74-02N	TTL	SN54L02J	TII	DL	LC05	90- 37
28	74-00N	TTL	74S00PC	FSC	DL	LC05	98- 87	138	74-02N	TTL	SN5402J	TII	DL	LC05	92- 96
29	74-00N	TTL	7400DC	FSC	DL	LC05	98-108	139	74-02N	TTL	SN54128J	TII	DL	LC05	93- 15
30	74-00N	TTL	7400PC	FSC	DL	LC05	98-109	140	74-02N	TTL	SN5428J	TII	DL	LC05	92-104
31	74-00N	TTL	7437DC	FSC	DL	LC05	99- 12	141	74-02N	TTL	SN74ALS02J	TII	DL	LC05	92- 70
32	74-00N	TTL	7437PC	FSC	DL	LC05	99- 13	142	74-02N	TTL	SN74ALS02N	TII	DL	LC05	92- 72
33	74-00N	TTL	9002DC	FSC	DL	LC05	93-108	143	74-02N	TTL	SN74LS02J	Δ	DL	LC05	92- 82
34	74-00N	TTL	9002DM	FSC	DL	LC05	93- 98	144	74-02N	TTL	SN74LS02N	Δ	DL	LC05	92- 83
35	74-01	TTL	DM5401J	NSC	DL	LC05	99- 39	145	74-02N	TTL	SN74LS28J	TII	DL	LC05	92- 86
36	74-01	TTL	FJH231-7401	PHIN	DL	LC05	99- 80	146	74-02N	TTL	SN74LS28N	TII	DL	LC05	92- 87
37	74-01N	TTL	DM7401N	NSC	DL	LC05	99- 61	147	74-02N	TTL	SN74S02J	TII	DL	LC05	92- 92
38	74-01N	TTL	FJH311-7401	PHIN	DL	LC05	99- 83	148	74-02N	TTL	SN74S02N	TII	DL	LC05	92- 93
39	74-01N	TTL	FJH311-7401S1	PHIN	DL	LC05	99- 84	149	74-02N	TTL	SN7402J	TII	DL	LC05	93- 3
40	74-01N	TTL	JANM38510/00107BCA	NSC	DL	LC05	101- 19	150	74-02N	TTL	SN7402N	TII	DL	LC05	93- 4
41	74-01N	TTL	JANM38510/00107BCB	Δ	DL	LC05	101- 20	151	74-02N	TTL	SN74128J	TII	DL	LC05	93- 17
42	74-01N	TTL	JANM38510/00107CCA	NSC	DL	LC05	101- 26	152	74-02N	TTL	SN74128N	TII	DL	LC05	93- 18
43	74-01N	TTL	JANM38510/00107CCB	Δ	DL	LC05	101- 27	153	74-02N	TTL	SN7428J	TII	DL	LC05	93- 11
44	74-01N	TTL	MB74LS01	FCAJ	DL	LC05	104- 22	154	74-02N	TTL	SN7428N	TII	DL	LC05	93- 12
45	74-01N	TTL	MB74LS01M	FCAJ	DL	LC05	104- 23	155	74-02N	TTL	S54LS02F	Δ	DL	LC05	90- 31
46	74-01N	TTL	M53201P	MITJ	DL	LC05	104- 12	156	74-02N	TTL	S54S02F	Δ	DL	LC05	92- 40
47	74-01N	TTL	N74LS01F	Δ	DL	LC05	104- 93	157	74-02N	TTL	S5402F	Δ	DL	LC05	92- 44
48	74-01N	TTL	N74LS01N	Δ	DL	LC05	104- 94	158	74-02N	TTL	T54LS02D2	SGAI	DL	LC05	90- 48
49	74-01F	TTL	N7401F	Δ	DL	LC05	105- 27	159	74-02N	TTL	T74LS02B1	SGAI	DL	LC05	93- 19
50	74-01N	TTL	N7401N	Δ	DL	LC05	105- 28	160	74-02N	TTL	ZN5428E	FERB	DL	LC05	93- 26
51	74-01N	TTL	N8880A	Δ	DL	LC05	109- 6	161	74-02N	TTL	ZN5428J	FERB	DL	LC05	93- 27
52	74-01N	TTL	N8880F	Δ	DL	LC05	109- 7	162	74-02N	TTL	ZN7428E	FERB	DL	LC05	93- 32
53	74-01N	TTL	N8880J	Δ	FL	LC05	109- 8	163	74-02N	TTL	ZN7428J	FERB	DL	LC05	93- 33
54	74-01N	TTL	N8881F	Δ	DL	LC05	109- 9	164	74-02N	TTL	54F02DM	FSC	DL	LC05	90- 50
55	74-01N	TTL	N8881J	Δ	FL	LC05	93- 82	165	74-02N	TTL	54LS02DM	FSC	DL	LC05	89- 81
56	74-01N	TTL	N8881N	SIC	DL	LC05	93- 83	166	74-02N	TTL	5402DM	FSC	DL	LC05	90- 64
57	74-01N	TTL	SFC401E	THEF	DL	LC05	105-106	167	74-02N	TTL	74F02DC	FSC	DL	LC05	90- 54
58	74-01N	TTL	SFC401EM	THEF	DL	LC05	105-107	168	74-02N	TTL	74F02PC	FSC	DL	LC05	90- 55
59	74-01N	TTL	SFC401ET	THEF	DL	LC05	105-108	169	74-02N	TTL	74LS02DC	FSC	DL	LC05	90- 56
60	74-01N	TTL	SFC401JM	THEF	DL	LC05	106- 4	170	74-02N	TTL	74LS02PC	FSC	DL	LC05	90- 57
61	74-01N	TTL	SFC401KM	THEF	DL	LC05	106- 5	171	74-02N	TTL	7402DC	FSC	DL	LC05	90- 71
62	74-01N	TTL	SFC401LSE	THEF	DL	LC05	106- 6	172	74-02N	TTL	7402PC	FSC	DL	LC05	90- 72
63	74-01N	TTL	SFC401LSEM	THEF	DL	LC05	106- 7	173	74-02N	TTL	MC3102L	MOTA	DL	LC05	93- 38
64	74-01N	TTL	SN54LS01J	Δ	DL	LC05	97- 69	174	74-03	CMS	883/4069UB	SSS	MO	LC05	66- 44
65	74-01N	TTL	SN5401J	TII	DL	LC05	108- 4	175	74-03	TTL	SN54ALS03J#	MOTA	DL	LC05	106- 57
66	74-01N	TTL	SN74ALS01J	TII	DL	LC05	107- 13	176	74-03	TTL	SN54ALS03N	MOTA	DL	LC05	106- 59
67	74-01N	TTL	SN74ALS01N	TII	DL	LC05	107- 14	177	74-03	TTL	SN74ALS03J#	MOTA	DL	LC05	107- 16
68	74-01N	TTL	SN74LS01J	Δ	DL	LC05	107- 64	178	74-03	TTL	SN74ALS03N#	MOTA	DL	LC05	107- 18
69	74-01N	TTL	SN74LS01N	Δ	DL	LC05	107- 65	179	74-03N	CMS	SCL4069UB	SSS	MO	LC05	66- 46
70	74-01N	TTL	SN7401J	TII	DL	LC05	108- 26	180	74-03N	DTL	MC1818L.P%	MOTA	DL	LC05	68- 11
71	74-01N	TTL	SN7401N	TII	DL	LC05	108- 27	181	74-03N	DTL	MC1918L	MOTA	DL	LC05	68- 10
72	74-01N	TTL	S54LS01F	Δ	DL	LC05	97- 32	182	74-03N	TTL	DM54H01J	NSC	DL	LC05	99- 17
73	74-01F	TTL	S5401F	Δ	DL	LC05	105- 76	183	74-03N	TTL	DM54L03J	NSC	DL	LC05	94- 49
74	74-01N	TTL	S8880A	Δ	DL	LC05	109- 18	184	74-03N	TTL	DM5438J	NSC	DL	LC05	99- 50
75	74-01N	TTL	S8880F	Δ	DL	LC05	109- 19	185	74-03N	TTL	DM74H01J	NSC	DL	LC05	99- 23
76	74-01N	TTL	S8880J	Δ	FL	LC05	109- 20	186	74-03N	TTL	DM74H01N	NSC	DL	LC05	99- 24
77	74-01N	TTL	S8881A	Δ	FL	LC05	93- 84	187	74-03N	TTL	DM74L03N	NSC	DL	LC05	94- 56
78	74-01N	TTL	S8881F	Δ	DL	LC05	109- 21	188	74-03N	TTL	DM74S03N	NSC	DL	LC05	99- 31
79	74-01N	TTL	5401DM	FSC	DL	LC05	98-100	189	74-03N	TTL	DM7403N	NSC	DL	LC05	99- 62
80	74-01N	TTL	7401DC	FSC	DL	LC05	98-110	190	74-03N	TTL	DM7438N	NSC	DL	LC05	99- 67
81	74-01N	TTL	7401PC	FSC	DL	LC05	99- 1	191	74-03N	TTL	DM8810N	NSC	DL	LC05	110- 65
82	74-02	CMS	MM74C02N	NSC	DL	LC05	58- 83	192	74-03N	TTL	DM8811N	NSC	DL	LC05	110- 66
83	74-02	PCH	MM74PC02J	NSC	DL	LC05	75- 16	193	74-03N	TTL	DM9002CJ	NSC	DL	LC05	93- 88
84	74-02	PCH	MM74PC02JL	NSC	DL	LC05	75- 17	194	74-03N	TTL	DM9002CN	NSC	DL	LC05	93- 89
85	74-02	PCH	MM74PC02N	NSC	DL	LC05	75- 18	195	74-03N	TTL	DM9012CJ	NSC	DL	LC05	93- 96
86	74-02	PCH	MM74PC02NI	NSC	DL	LC05	75- 19	196	74-03N	TTL	DM9012CN	NSC	DL	LC05	93- 97

FUNCTIONAL EQUIVALENCE MASTER INDEX

IN ORDER OF: (1)FUNCTIONAL NO. (2) TECH
(3)TYPE NUMBER

LINE No.	1			MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	LINE No.	2			MFR CODE	PT KY GP E	USE CODE	PAGE & LINE
	FUNCTIONAL NUMBER	TECH	TYPE NUMBER						FUNCTIONAL NUMBER	TECH	TYPE NUMBER				
1	74-03N	TTL	MB416M	FCAJ	DL	LC05	104-55	111	74-03N	TTL	74S03PC	FSC	DL	LC05	94-26
2	74-03N	TTL	MB431	FCAJ	DL	LC05	104-56	112	74-03N	TTL	7403DC	FSC	DL	LC05	99-2
3	74-03N	TTL	MB431M	FCAJ	DL	LC05	104-57	113	74-03N	TTL	7403PC	FSC	DL	LC05	99-3
4	74-03N	TTL	MB433	FCAJ	DL	LC05	104-58	114	74-03N	TTL	7426DC	FSC	DL	LC05	99-8
5	74-03N	TTL	MB433M	FCAJ	DL	LC05	104-59	115	74-03N	TTL	7426PC	FSC	DL	LC05	99-9
6	74-03N	TTL	MB74LS03	FCAJ	DL	LC05	104-24	116	74-03N	TTL	7438DC	FSC	DL	LC05	99-14
7	74-03N	TTL	MB74LS03M	FCAJ	DL	LC05	104-25	117	74-03N	TTL	7438PC	FSC	DL	LC05	99-15
8	74-03N	TTL	MB74LS26	FCAJ	DL	LC05	104-34	118	74-03N	TTL	9012DC	FSC	DL	LC05	94-2
9	74-03N	TTL	MB74LS26M	FCAJ	DL	LC05	104-35	119	74-03N	TTL	9012DM	FSC	DL	LC05	93-106
10	74-03N	TTL	MB74LS38	FCAJ	DL	LC05	104-40	120	74-04	PCH	MM74PC04J	NSC	DL	LC05	75-24
11	74-03N	TTL	MB74LS38M	FCAJ	DL	LC05	104-41	121	74-04	PCH	MM74PC04J	NSC	DL	LC05	75-25
12	74-03N	TTL	M53203P	MITJ	DL	LC05	104-13	122	74-04	PCH	MM74PC04N	NSC	DL	LC05	75-26
13	74-03N	TTL	M53238P	MITJ	DL	LC05	104-18	123	74-04	PCH	MM74PC04NI	NSC	DL	LC05	75-27
14	74-03N	TTL	M74LS03AP	MITJ	DL	LC05	100-1	124	74-04	TTL	N74F04F	Δ	DL	LC05	115-42
15	74-03N	TTL	M74LS03P	MITJ	DL	LC05	100-14	125	74-04	TTL	N74F04N	Δ	DL	LC05	115-43
16	74-03N	TTL	M74LS38P	MITJ	DL	LC05	100-21	126	74-04	TTL	S54F04F	Δ	DL	LC05	115-59
17	74-03N	TTL	N74H01F	Δ	DL	LC05	104-80	127	74-04N	CMS	CD4069C	NSC	DL	LC05	66-42
18	74-03N	TTL	N74H01N	Δ	DL	LC05	104-81	128	74-04N	CMS	CD4069M	NSC	DL	LC05	66-43
19	74-03N	TTL	N74LS03F	Δ	DL	LC05	104-95	129	74-04N	CMS	CD4069UBD	RCA	DL	LC05	66-32
20	74-03N	TTL	N74LS03N	Δ	DL	LC05	104-96	130	74-04N	CMS	CD4069UBC	RCA	DL	LC05	66-33
21	74-03N	TTL	N74LS26D	SIC	DL	LC05	105-5	131	74-04N	CMS	CD4069UBF	RCA	DL	LC05	66-34
22	74-03N	TTL	N74LS26N	Δ	DL	LC05	105-6	132	74-04N	CMS	CD4096BD	RCA	MO	LC04	35-37
23	74-03N	TTL	N74S03F	Δ	DL	LC05	105-11	133	74-04N	CMS	CD4096BE	RCA	MO	LC04	35-38
24	74-03N	TTL	N74S03N	Δ	DL	LC05	105-12	134	74-04N	CMS	CD4096BF	RCA	MO	LC04	35-39
25	74-03N	TTL	N7403F	Δ	DL	LC05	105-29	135	74-04N	CMS	MC14069UBCL	MOTA	DL	LC05	66-61
26	74-03N	TTL	N7403N	Δ	DL	LC05	105-30	136	74-04N	CMS	MC14069UBCP	MOTA	DL	LC05	66-62
27	74-03N	TTL	N7429F	Δ	DL	LC05	105-37	137	74-04N	CMS	MSM4069RS	OKJ	DL	LC05	66-28
28	74-03N	TTL	N7429N	Δ	DL	LC05	105-38	138	74-04N	HNL	H112D1	SGAI	DL	LC05	74-93
29	74-03N	TTL	N8481A	Δ	DL	LC05	93-71	139	74-04N	HNL	H112D6	SGAI	DL	LC05	74-94
30	74-03N	TTL	N8481F	Δ	DL	LC05	93-72	140	74-04N	HNL	H118D1	SGAI	DL	LC05	74-97
31	74-03N	TTL	SFC401AE	THEF	DL	LC05	105-105	141	74-04N	HNL	H118D6	SGAI	DL	LC05	74-98
32	74-03N	TTL	SFC401HE	THEF	DL	LC05	105-109	142	74-04N	TTL	M74ALS04P	MITJ	DL	LC05	115-38
33	74-03N	TTL	SFC401HEM	THEF	DL	LC05	105-110	143	74-04N	TTL	M74LS04P	MITJ	DL	LC05	115-21
34	74-03N	TTL	SFC401HJM	THEF	DL	LC05	106-1	144	74-04N	TTL	N74LS04F	Δ	DL	LC05	115-44
35	74-03N	TTL	SFC401HKM	THEF	DL	LC05	106-2	145	74-04N	TTL	N74LS04N	Δ	DL	LC05	115-45
36	74-03N	TTL	SFC403E	THEF	DL	LC05	106-9	146	74-04N	TTL	N74S04F	Δ	DL	LC05	115-48
37	74-03N	TTL	SFC403EM	THEF	DL	LC05	106-10	147	74-04N	TTL	N74S04N	Δ	DL	LC05	115-49
38	74-03N	TTL	SFC403ET	THEF	DL	LC05	106-11	148	74-04N	TTL	N7404F	Δ	DL	LC05	115-52
39	74-03N	TTL	SFC403EV	THEF	DL	LC05	106-12	149	74-04N	TTL	N7404N	Δ	DL	LC05	115-53
40	74-03N	TTL	SFC438E	THEF	DL	LC05	106-42	150	74-04N	TTL	S54LS04F	SIC	DL	LC05	115-28
41	74-03N	TTL	SFC438EM	THEF	DL	LC05	106-43	151	74-04N	TTL	S54S04F	SIC	DL	LC05	115-61
42	74-03N	TTL	SFC438ET	THEF	DL	LC05	106-44	152	74-04N	TTL	S5404F	SIC	DL	LC05	115-63
43	74-03N	TTL	SN29012J	TI	DL	LC05	94-13	153	74-04N	TTL	54F04DM	FSC	DL	LC05	115-30
44	74-03N	TTL	SN29012N	TI	DL	LC05	94-14	154	74-04N	TTL	74F04DC	FSC	DL	LC05	115-32
45	74-03N	TTL	SN54H01J	TI	DL	LC05	106-80	155	74-04N	TTL	74F04PC	FSC	DL	LC05	115-33
46	74-03N	TTL	SN54LS03J	Δ	DL	LC05	97-71	156	74-05	TTL	SN54ALS05J#	MOTA	DL	LC05	115-66
47	74-03N	TTL	SN54LS26J	TI	DL	LC05	97-81	157	74-05	TTL	SN54ALS05N	MOTA	DL	LC05	115-68
48	74-03N	TTL	SN54LS38J	TI	DL	LC05	99-6	158	74-05	TTL	SN74ALS05J#	MOTA	DL	LC05	115-70
49	74-03N	TTL	SN54LS03J	TI	DL	LC05	94-31	159	74-05	TTL	SN74ALS05N#	MOTA	DL	LC05	115-72
50	74-03N	TTL	SN54S03J	TI	DL	LC05	106-94	160	74-05N	DTL	941DM	FSC	DL	LC10	122-89
51	74-03N	TTL	SN54S38J	TI	DL	LC05	106-106	161	74-05N	TTL	M74ALS05P	MITJ	DL	LC05	115-39
52	74-03N	TTL	SN5403J	TI	DL	LC05	108-6	162	74-05N	TTL	M74LS05P	MITJ	DL	LC05	115-22
53	74-03N	TTL	SN5426J	TI	DL	LC05	108-14	163	74-05N	TTL	N74LS05F	Δ	DL	LC05	115-46
54	74-03N	TTL	SN5438J	TI	DL	LC05	108-20	164	74-05N	TTL	N74LS05N	Δ	DL	LC05	115-47
55	74-03N	TTL	SN74ALS03J	TI	DL	LC05	107-15	165	74-05N	TTL	N74S05F	Δ	DL	LC05	115-50
56	74-03N	TTL	SN74ALS03N	TI	DL	LC05	107-17	166	74-05N	TTL	N74S05N	Δ	DL	LC05	115-51
57	74-03N	TTL	SN74ALS38J	TI	DL	LC05	107-37	167	74-05N	TTL	N7405F	Δ	DL	LC05	115-54
58	74-03N	TTL	SN74ALS38N	TI	DL	LC05	107-38	168	74-05N	TTL	N7405N	Δ	DL	LC05	115-55
59	74-03N	TTL	SN74H01J	TI	DL	LC05	107-50	169	74-05N	TTL	SN74ALS05J	TI	DL	LC05	115-69
60	74-03N	TTL	SN74H01N	TI	DL	LC05	107-51	170	74-05N	TTL	SN74ALS05N	TI	DL	LC05	115-71
61	74-03N	TTL	SN74LS03J	Δ	DL	LC05	107-66	171	74-06	PCH	N7406N	Δ	DL	LC05	115-56
62	74-03N	TTL	SN74LS03N	Δ	DL	LC05	107-67	172	74-06	PCH	MM74PC08J	NSC	DL	LC05	75-8
63	74-03N	TTL	SN74LS26J	Δ	DL	LC05	107-76	173	74-06	PCH	MM74PC08J	NSC	DL	LC05	75-9
64	74-03N	TTL	SN74LS26N	TI	DL	LC05	107-77	174	74-06	PCH	MM74PC08N	NSC	DL	LC05	75-10
65	74-03N	TTL	SN74LS38J	TI	DL	LC05	107-82	175	74-06	PCH	MM74PC08NI	NSC	DL	LC05	75-11
66	74-03N	TTL	SN74LS38N	TI	DL	LC05	107-83	176	74-06	TTL	N74F08N	Δ	DL	LC05	79-51
67	74-03N	TTL	SN74S03J	TI	DL	LC05	107-90	177	74-06	TTL	N7408N	Δ	DL	LC05	80-4
68	74-03N	TTL	SN74S03N	TI	DL	LC05	107-91	178	74-06	TTL	SN54ALS08J#	MOTA	DL	LC05	80-55
69	74-03N	TTL	SN74S38J	TI	DL	LC05	107-102	179	74-06	TTL	SN54ALS08N	MOTA	DL	LC05	80-57
70	74-03N	TTL	SN74S38N	TI	DL	LC05	107-103	180	74-06	TTL	SN54LS08J	Δ	DL	LC05	77-30
71	74-03N	TTL	SN7403J	TI	DL	LC05	108-28	181	74-06	TTL	SN74ALS08J#	MOTA	DL	LC05	80-85
72	74-03N	TTL	SN7403N	TI	DL	LC05	108-29	182	74-06	TTL	SN74ALS08N#	MOTA	DL	LC05	80-87
73	74-03N	TTL	SN7426J	TI	DL	LC05	108-37	183	74-06	TTL	SN74LS08N	Δ	DL	LC05	80-109
74	74-03N	TTL	SN7426N	TI	DL	LC05	108-38	184	74-06	TTL	S54F08F	Δ	DL	LC05	80-11
75	74-03N	TTL	SN7438J	TI	DL	LC05	108-43	185	74-08N	CMS	MM54C08D	NSC	DL	LC05	55-48
76	74-03N	TTL	SN7438N	TI	DL	LC05	108-44	186	74-08N	CMS	MM74C08N	NSC	DL	LC05	55-49
77	74-03N	TTL	S54H01F	Δ	DL	LC05	105-49	187	74-08N	DTL	MC1807L,P%	MOTA	DL	LC05	66-73
78	74-03N	TTL	S54LS03F	Δ	DL	LC05	97-34	188	74-08N	DTL	MC190L	MOTA	DL	LC05	66-69
79	74-03N	TTL	S54LS26F	Δ	DL	LC05	97-44	189	74-08N	DTL	MC190L	MOTA	DL	LC05	66-71
80	74-03N	TTL	S54S03F	Δ	DL	LC05	105-61	190	74-08N	TTL	DM54H08J	NSC	DL	LC05	77-80
81	74-03N	TTL	S5403F	Δ	DL	LC05	105-78	191	74-08N	TTL	DM5408J	NSC	DL	LC05	77-68
82	74-03N	TTL	S5426F	Δ	DL	LC05	105-86	192	74-08N	TTL	DM74H08N	NSC	DL	LC05	77-83
83	74-03N	TTL	S8481A	Δ	DL	LC05	93-76	193	74-08N	TTL	DM7408N	NSC	DL	LC05	78-2
84	74-03N	TTL	S8481F	Δ	DL	LC05	93-77	194	74-08N	TTL	DM7819J	NSC	DL	LC05	78-5
85	74-03N	TTL	T54LS03D2	SGAI	DL	LC05	98-12	195	74-08N	TTL	DM7819N	NSC	DL	LC05	78-6
86	74-03N	TTL	T54LS26D2	SGAI	DL	LC05	98-16	196	74-08N	TTL	DM8819J	NSC	DL	LC05	78-8
87	74-03N	TTL	T74LS03B1	SGAI	DL	LC05	108-49	197	74-08N	TTL	DM8819N	NSC	DL	LC05	78-9
88	74-03N														

FUNCTIONAL EQUIVALENCE MASTER INDEX

IN ORDER OF: (1)FUNCTIONAL NO. (2) TECH
(3)TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE
1	74-08N	TTL	M74LS08P	MITJ	DL	LC05	78- 31	111	74-10	TTL	SN74S10N	TII	DL	LC05	107- 93
2	74-08N	TTL	N74H08F	Δ	DL	LC05	79- 54	112	74-10	TTL	S54F10F	VALG	DL	LC05	105- 43
3	74-08N	TTL	N74H08N	Δ	DL	LC05	79- 55	113	74-10	TTL	S54LS10F	Δ	DL	LC05	97- 36
4	74-08N	TTL	N74LS08D	SIC	DL	LC05	79- 60	114	74-10N	CMS	MM54C10D	NSC	DL	LC05	62- 13
5	74-08N	TTL	N74LS08N	Δ	DL	LC05	79- 61	115	74-10N	CMS	MM74C10N	NSC	DL	LC05	62- 17
6	74-08N	TTL	N74S08F	Δ	DL	LC05	79- 70	116	74-10N	DTL	E303F2	SGAI	DL	LC05	70- 3
7	74-08N	TTL	N74S08N	Δ	DL	LC05	79- 71	117	74-10N	DTL	E303F7	SGAI	DL	LC05	70- 4
8	74-08N	TTL	N7408F	Δ	DL	LC05	80- 3	118	74-10N	DTL	JANM38510/03005BCB	FSC	DL	LC05	68- 61
9	74-08N	TTL	SFC408E	THEF	DL	LC05	80- 37	119	74-10N	DTL	JANM38510/03005CCB	FSC	DL	LC05	68- 64
10	74-08N	TTL	SFC408EM	THEF	DL	LC05	80- 38	120	74-10N	DTL	MC962L_P%	MOTA	DL	LC05	69- 13
11	74-08N	TTL	SFC408ET	THEF	DL	LC05	80- 39	121	74-10N	DTL	MC863L_P%	MOTA	DL	LC05	69- 14
12	74-08N	TTL	SFC408EV	THEF	DL	LC05	80- 40	122	74-10N	DTL	MC962L	MOTA	DL	LC05	69- 3
13	74-08N	TTL	SN54S08J	TII	DL	LC05	80- 76	123	74-10N	DTL	MC963L	MOTA	DL	LC05	69- 4
14	74-08N	TTL	SN5408J	TII	DL	LC05	110- 75	124	74-10N	DTL	SFC962E	THEF	DL	LC05	70- 40
15	74-08N	TTL	SN74ALS08J	TII	DL	LC05	80- 84	125	74-10N	DTL	SN15862	TII	FL	LC05	70- 46
16	74-08N	TTL	SN74ALS08N	TII	DL	LC05	80- 86	126	74-10N	DTL	SN15862N	TII	DL	LC05	70- 47
17	74-08N	TTL	SN74LS08J	TII	DL	LC05	80-108	127	74-10N	DTL	SN15863J	TII	DL	LC05	68- 72
18	74-08N	TTL	SN74S08J	TII	DL	LC05	81- 8	128	74-10N	DTL	SN15863N	TII	DL	LC05	68- 73
19	74-08N	TTL	SN74S08N	TII	DL	LC05	81- 9	129	74-10N	DTL	SN15862N	TII	FL	LC05	68- 88
20	74-08N	TTL	SN7408J	TII	DL	LC05	110- 81	130	74-10N	DTL	SN15862N	TII	DL	LC05	68- 84
21	74-08N	TTL	SN7408N	TII	DL	LC05	110- 82	131	74-10N	DTL	SN15863N	TII	DL	LC05	68- 87
22	74-08N	TTL	S54H08F	Δ	DL	LC05	80- 15	132	74-10N	DTL	962DM	FSC	DL	LC05	68- 20
23	74-08N	TTL	S54LS08F	Δ	DL	LC05	77- 20	133	74-10N	DTL	963DC	FSC	DL	LC05	70- 32
24	74-08N	TTL	S54S08F	Δ	DL	LC05	80- 21	134	74-10N	DTL	963DM	FSC	DL	LC05	70- 24
25	74-08N	TTL	S5408F	Δ	DL	LC05	80- 29	135	74-10N	DTL	9962BC	SGAI	DL	LC05	68- 44
26	74-08N	TTL	T54LS08D2	SGAI	DL	LC05	77- 40	136	74-10N	DTL	9962DC	SGAI	DL	LC05	68- 45
27	74-08N	TTL	T74LS08B1	SGAI	DL	LC05	81- 16	137	74-10N	DTL	9962DM	SGAI	DL	LC05	68- 30
28	74-08N	TTL	T74LS08D1	SGAI	DL	LC05	81- 17	138	74-10N	TTL	DM54H10J	NSC	DL	LC05	99- 18
29	74-08N	TTL	ZN5408E	FERRB	DL	LC05	110- 87	139	74-10N	TTL	DM54L10J	NSC	DL	LC05	94- 50
30	74-08N	TTL	ZN5408J	FERRB	DL	LC05	110- 88	140	74-10N	TTL	DM54L10J	NSC	DL	LC05	99- 42
31	74-08N	TTL	ZN7408E	FERRB	DL	LC05	110- 91	141	74-10N	TTL	DM74H10N	NSC	DL	LC05	99- 25
32	74-08N	TTL	ZN7408J	FERRB	DL	LC05	110- 92	142	74-10N	TTL	DM74L10N	NSC	DL	LC05	94- 57
33	74-08N	TTL	54F08DM	FSC	DL	LC05	77- 45	143	74-10N	TTL	DM7410N	NSC	DL	LC05	99- 63
34	74-08N	TTL	54H08DM	FSC	DL	LC05	75-100	144	74-10N	TTL	DM9003CJ	NSC	DL	LC05	93- 90
35	74-08N	TTL	54LS08DM	FSC	DL	LC05	76- 6	145	74-10N	TTL	DM9003CN	NSC	DL	LC05	93- 91
36	74-08N	TTL	5408DM	FSC	DL	LC05	77- 73	146	74-10N	TTL	FJH121-7410	PHIN	DL	LC05	99- 77
37	74-08N	TTL	74F08DC	FSC	DL	LC05	77- 56	147	74-10N	TTL	JANM38510/00103BCA	NSC	DL	LC05	100- 55
38	74-08N	TTL	74F08PC	FSC	DL	LC05	77- 57	148	74-10N	TTL	JANM38510/00103BCB	Δ	DL	LC05	100- 56
39	74-08N	TTL	74LS08DC	FSC	DL	LC05	77- 64	149	74-10N	TTL	JANM38510/02003CCA	NSC	DL	LC05	100- 62
40	74-08N	TTL	74LS08PC	FSC	DL	LC05	77- 65	150	74-10N	TTL	JANM38510/00103CCB	Δ	DL	LC05	100- 63
41	74-08N	TTL	74S08DC	FSC	DL	LC05	76- 4	151	74-10N	TTL	JANM38510/02003BCA	Δ	DL	LC05	95- 2
42	74-08N	TTL	74S08PC	FSC	DL	LC05	76- 5	152	74-10N	TTL	JANM38510/02003CCB	NSC	DL	LC05	95- 3
43	74-08N	TTL	7408DC	FSC	DL	LC05	77- 76	153	74-10N	TTL	JANM38510/02003CCA	NSC	DL	LC05	95- 8
44	74-08N	TTL	7408PC	FSC	DL	LC05	77- 77	154	74-10N	TTL	JANM38510/02003CCB	NSC	DL	LC05	95- 9
45	74-09	TTL	SN54ALS09J	TII	DL	LC05	80- 58	155	74-10N	TTL	JANM38510/02303BCA	none	DL	LC05	102- 5
46	74-09	TTL	SN54ALS09J#	MOTA	DL	LC05	80- 59	156	74-10N	TTL	JANM38510/02303BCB	Δ	DL	LC05	102- 6
47	74-09	TTL	SN54ALS09N	MOTA	DL	LC05	80- 60	157	74-10N	TTL	JANM38510/00103CCA	none	DL	LC05	102- 11
48	74-09	TTL	SN74ALS09J	Δ	DL	LC05	80- 88	158	74-10N	TTL	JANM38510/02303CCB	FSC	DL	LC05	102- 12
49	74-09	TTL	SN74ALS09N	Δ	DL	LC05	80- 89	159	74-10N	TTL	JANM38510/07005BCA	none	DL	LC05	103- 14
50	74-09N	CMS	JANM38510/05001CCA	NSC	DL	LC05	62- 37	160	74-10N	TTL	JANM38510/07005BCB	Δ	DL	LC05	103- 15
51	74-09N	TTL	DM5409J	NSC	DL	LC05	77- 90	161	74-10N	TTL	JANM38510/07005CCA	none	DL	LC05	103- 20
52	74-09N	TTL	DM7409N	NSC	DL	LC05	78- 3	162	74-10N	TTL	JANM38510/07005CCB	FSC	DL	LC05	103- 21
53	74-09N	TTL	DS7819J	NSC	DL	LC05	78- 11	163	74-10N	TTL	JANM38510/30005BCA	NSC	DL	LC05	96- 6
54	74-09N	TTL	DS8819J	NSC	DL	LC05	78- 13	164	74-10N	TTL	JANM38510/30005BCB	Δ	DL	LC05	96- 7
55	74-09N	TTL	DS8819N	NSC	DL	LC05	78- 14	165	74-10N	TTL	JANM38510/07005BCA	NSC	DL	LC05	96- 8
56	74-09N	TTL	JANM38510/01602BCA	none	DL	LC05	78- 50	166	74-10N	TTL	JANM38510/30005CCA	Δ	DL	LC05	96- 14
57	74-09N	TTL	JANM38510/01602BCB	Δ	DL	LC05	78- 51	167	74-10N	TTL	JANM38510/30005CCB	Δ	DL	LC05	96- 15
58	74-09N	TTL	JANM38510/01602CCA	none	DL	LC05	78- 56	168	74-10N	TTL	JANM38510/30005CCC	NSC	DL	LC05	96- 16
59	74-09N	TTL	JANM38510/01602CCB	FSC	DL	LC05	78- 57	169	74-10N	TTL	MB602	FCAJ	DL	LC05	104- 63
60	74-09N	TTL	MB74LS09	FCAJ	DL	LC05	79- 38	170	74-10N	TTL	MB74LS10	FCAJ	DL	LC05	104- 26
61	74-09N	TTL	MB74LS09M	FCAJ	DL	LC05	79- 39	171	74-10N	TTL	MB74LS10M	FCAJ	DL	LC05	104- 27
62	74-09N	TTL	M53209P	MITJ	DL	LC05	110- 74	172	74-10N	TTL	M53210P	MITJ	DL	LC05	104- 14
63	74-09N	TTL	M74ALS09P	MITJ	DL	LC05	78- 26	173	74-10N	TTL	M74ALS10P	MITJ	DL	LC05	100- 2
64	74-09N	TTL	M74LS09P	MITJ	DL	LC05	78- 32	174	74-10N	TTL	M74LS10P	MITJ	DL	LC05	100- 15
65	74-09N	TTL	N74LS09F	Δ	DL	LC05	79- 62	175	74-10N	TTL	N74H10F	Δ	DL	LC05	104- 82
66	74-09N	TTL	N74LS09N	Δ	DL	LC05	79- 63	176	74-10N	TTL	N74H10N	Δ	DL	LC05	104- 83
67	74-09N	TTL	N74S09F	Δ	DL	LC05	79- 72	177	74-10N	TTL	N74LS10D	SIC	DL	LC05	104- 97
68	74-09N	TTL	N74S09N	Δ	DL	LC05	79- 73	178	74-10N	TTL	N74LS10N	Δ	DL	LC05	104- 98
69	74-09N	TTL	N7409F	Δ	DL	LC05	80- 5	179	74-10N	TTL	N74S10D	SIC	DL	LC05	105- 13
70	74-09N	TTL	N7409N	Δ	DL	LC05	80- 6	180	74-10N	TTL	N74S10N	Δ	DL	LC05	105- 14
71	74-09N	TTL	SFC409E	THEF	DL	LC05	80- 43	181	74-10N	TTL	N7410F	Δ	DL	LC05	105- 31
72	74-09N	TTL	SFC409EM	THEF	DL	LC05	80- 44	182	74-10N	TTL	N7410N	Δ	DL	LC05	105- 32
73	74-09N	TTL	SFC409ET	THEF	DL	LC05	80- 45	183	74-10N	TTL	N8H70A	Δ	DL	LC05	110- 98
74	74-09N	TTL	SFC409EV	THEF	DL	LC05	80- 46	184	74-10N	TTL	N8470A	Δ	DL	LC05	109- 96
75	74-09N	TTL	SN54ALS08J#mil	TII	DL	LC05	80- 56	185	74-10N	TTL	N8470F	Δ	DL	LC05	109- 97
76	74-09N	TTL	SN54LS09J	Δ	DL	LC05	77- 32	186	74-10N	TTL	N8870A	Δ	DL	LC05	109- 3
77	74-09N	TTL	SN54S09J	TII	DL	LC05	80- 78	187	74-10N	TTL	N8870F	Δ	DL	LC05	109- 4
78	74-09N	TTL	SN5409J	TII	DL	LC05	110- 77	188	74-10N	TTL	SFC410E	THEF	DL	LC05	106- 13
79	74-09N	TTL	SN74LS09J	Δ	DL	LC05	80-110	189	74-10N	TTL	SFC410EM	THEF	DL	LC05	106- 14
80	74-09N	TTL	SN74LS09N	Δ	DL	LC05	81- 1	190	74-10N	TTL	SFC410ET	THEF	DL	LC05	106- 15
81	74-09N	TTL	SN74S09J	TII	DL	LC05	81- 10	191	74-10N	TTL	SFC410E	THEF	DL	LC05	106- 16
82	74-09N	TTL	SN74S09N	TII	DL	LC05	81- 11	192	74-10N	TTL	SFC410HEM	THEF	DL	LC05	106- 17
83	74-09N	TTL	SN7409J	TII	DL	LC05	110- 83	193	74-10N	TTL	SFC410LE	THEF	DL	LC05	97- 54
84	74-09N	TTL	SN7409N	TII	DL	LC05	110- 84	194	74-10N	TTL	SFC410LEM	THEF	DL	LC05	97- 53
85	74-09N	TTL	S54LS09F	Δ	DL	LC05	77- 22	195	74-10N	TTL	SFC410LPM	THEF	DL	LC05	9

FUNCTIONAL EQUIVALENCE MASTER INDEX

IN ORDER OF: (1)FUNCTIONAL NO. (2) TECH
(3)TYPE NUMBER

LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GPE	USE CODE	PAGE & LINE	LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GPE	USE CODE	PAGE & LINE
1	74-10N	TTL	S8870F	Δ	DL	LC05	109- 16	111	74-12N	TTL	N8471A	Δ	DL	LC05	93- 69
2	74-10N	TTL	T54LS10D2	SGAI	DL	LC05	98- 13	112	74-12N	TTL	SN54LS12J	Δ	DL	LC05	97- 75
3	74-10N	TTL	T74LS10B1	SGAI	DL	LC05	108- 51	113	74-12N	TTL	SN5412J	Δ	DL	LC05	108- 10
4	74-10N	TTL	T74LS10D1	SGAI	DL	LC05	108- 52	114	74-12N	TTL	SN74LS12J	Δ	DL	LC05	107- 70
5	74-10N	TTL	54F10DM	FSC	DL	LC05	98- 22	115	74-12N	TTL	SN74LS12N	Δ	DL	LC05	107- 71
6	74-10N	TTL	54H10DM	FSC	DL	LC05	98- 30	116	74-12N	TTL	SN7412J	Δ	DL	LC05	108- 32
7	74-10N	TTL	54LS10DM	FSC	DL	LC05	94- 36	117	74-12N	TTL	SN7412N	TII	DL	LC05	108- 33
8	74-10N	TTL	54S10DM	FSC	DL	LC05	98- 41	118	74-12N	TTL	S54LS12F	Δ	DL	LC05	97- 38
9	74-10N	TTL	5410DM	FSC	DL	LC05	94- 15	119	74-12N	TTL	S5412F	Δ	DL	LC05	105- 82
10	74-10N	TTL	74F10DC	FSC	DL	LC05	98- 53	120	74-12N	TTL	S8471A	Δ	DL	LC05	93- 74
11	74-10N	TTL	74F10PC	FSC	DL	LC05	98- 54	121	74-12N	TTL	ZN5412E	FERRB	DL	LC05	108- 63
12	74-10N	TTL	74H10DC	FSC	DL	LC05	98- 61	122	74-12N	TTL	ZN5412J	FERRB	DL	LC05	108- 64
13	74-10PC	TTL	74H10PC	FSC	DL	LC05	98- 62	123	74-12N	TTL	ZN7412E	FERRB	DL	LC05	108- 71
14	74-10N	TTL	74LS10DC	FSC	DL	LC05	98- 73	124	74-12N	TTL	ZN7412J	FERRB	DL	LC05	108- 72
15	74-10N	TTL	74LS10PC	FSC	DL	LC05	98- 74	125	74-12N	TTL	5412DM	FSC	DL	LC05	94- 16
16	74-10N	TTL	74S10DC	FSC	DL	LC05	98- 89	126	74-12N	TTL	7412DC	FSC	DL	LC05	94- 22
17	74-10N	TTL	74S10PC	FSC	DL	LC05	94- 27	127	74-12N	TTL	7412PC	FSC	DL	LC05	99- 5
18	74-10N	TTL	9003DC	FSC	DL	LC05	93-109	128	74-13	TTL	N74LS20N	Δ	DL	LC05	105- 2
19	74-10N	TTL	9003DM	FSC	DL	LC05	93-100	129	74-13	TTL	S54F20F	Δ	DL	LC05	105- 45
20	74-11	TTL	N74F11F	VALG	DL	LC05	79- 52	130	74-13	TTL	S54S140A	Δ	DL	LC05	105- 73
21	74-11	TTL	N74F11N	VALG	DL	LC05	79- 53	131	74-13N	CMS	MM54C20D	NSC	DL	LC05	62- 14
22	74-11	TTL	SN54ALS11J#	MOTA	DL	LC05	80- 61	132	74-13N	CMS	MM74C20N	NSC	DL	LC05	62- 18
23	74-11	TTL	SN54ALS11J#mil	TII	DL	LC05	80- 62	133	74-13N	TTL	DM54H20J	NSC	DL	LC05	99- 19
24	74-11	TTL	SN54ALS11N	MOTA	DL	LC05	80- 63	134	74-13N	TTL	DM54H40J	NSC	DL	LC05	99- 21
25	74-11	TTL	SN74ALS11J#	MOTA	DL	LC05	80- 91	135	74-13N	TTL	DM54L20J	NSC	DL	LC05	94- 52
26	74-11	TTL	SN74ALS11N#	MOTA	DL	LC05	80- 93	136	74-13N	TTL	DM5420J	NSC	DL	LC05	99- 44
27	74-11	TTL	S54F11F	VALG	DL	LC05	80- 13	137	74-13N	TTL	DM5440J	NSC	DL	LC05	99- 52
28	74-11N	TTL	DM54H11J	NSC	DL	LC05	77- 81	138	74-13N	TTL	DM74H20N	NSC	DL	LC05	99- 26
29	74-11N	TTL	DM5411J	NSC	DL	LC05	78- 1	139	74-13N	TTL	DM74H40N	NSC	DL	LC05	99- 29
30	74-11N	TTL	DM74H11N	NSC	DL	LC05	77- 84	140	74-13N	TTL	DM74L20N	NSC	DL	LC05	94- 58
31	74-11N	TTL	DM74S11N	NSC	DL	LC05	77- 86	141	74-13N	TTL	DM74S140N	NSC	DL	LC05	99- 36
32	74-11N	TTL	DM7411N	NSC	DL	LC05	78- 4	142	74-13N	TTL	DM74S20N	NSC	DL	LC05	99- 33
33	74-11N	TTL	JANM38510/08001BCA	none	DL	LC05	78- 62	143	74-13N	TTL	DM74S40N	NSC	DL	LC05	99- 35
34	74-11N	TTL	JANM38510/08001BCB	SIC	DL	LC05	78- 63	144	74-13N	TTL	DM7420N	NSC	DL	LC05	99- 64
35	74-11N	TTL	JANM38510/08001CCA	none	DL	LC05	78- 68	145	74-13N	TTL	DM7440N	NSC	DL	LC05	99- 68
36	74-11N	TTL	JANM38510/08001CCB	none	DL	LC05	78- 69	146	74-13N	TTL	DM9004CJ	NSC	DL	LC05	93- 92
37	74-11N	TTL	JANM38510/15502BCA	none	DL	LC05	79- 24	147	74-13N	TTL	DM9004CN	NSC	DL	LC05	93- 93
38	74-11N	TTL	JANM38510/15502BCB	MOTA	DL	LC05	79- 25	148	74-13N	TTL	DM9009CJ	NSC	DL	LC05	93- 94
39	74-11N	TTL	JANM38510/15502CCA	none	DL	LC05	79- 26	149	74-13N	TTL	DM9009CN	NSC	DL	LC05	93- 95
40	74-11N	TTL	JANM38510/15502CCB	none	DL	LC05	79- 27	150	74-13N	TTL	FJH111-7420	PHIN	DL	LC05	99- 76
41	74-11N	TTL	JANM38510/31001BCA	NSC	DL	LC05	76- 16	151	74-13N	TTL	FJH141-7440	PHIN	DL	LC05	99- 79
42	74-11N	TTL	JANM38510/31001BCB	Δ	DL	LC05	76- 17	152	74-13N	TTL	JANM38510/00102BCA	NSC	DL	LC05	100- 41
43	74-11N	TTL	JANM38510/31001BCC	NSC	DL	LC05	76- 18	153	74-13N	TTL	JANM38510/00102BCB	Δ	DL	LC05	100- 42
44	74-11N	TTL	JANM38510/31001CCA	NSC	DL	LC05	76- 25	154	74-13N	TTL	JANM38510/00102CCA	NSC	DL	LC05	100- 48
45	74-11N	TTL	JANM38510/31001CCB	Δ	DL	LC05	76- 26	155	74-13N	TTL	JANM38510/00102CCB	Δ	DL	LC05	100- 49
46	74-11N	TTL	JANM38510/31001CCC	NSC	DL	LC05	76- 27	156	74-13N	TTL	JANM38510/02002BCA	NSC	DL	LC05	94- 75
47	74-11N	TTL	MB74LS11	FCAJ	DL	LC05	79- 40	157	74-13N	TTL	JANM38510/02002BCB	NSC	DL	LC05	94- 76
48	74-11N	TTL	MB74LS11M	FCAJ	DL	LC05	79- 41	158	74-13N	TTL	JANM38510/02002CCA	NSC	DL	LC05	94- 81
49	74-11N	TTL	M74ALS11P	MITJ	DL	LC05	78- 27	159	74-13N	TTL	JANM38510/02002CCB	NSC	DL	LC05	94- 82
50	74-11N	TTL	M74LS11P	MITJ	DL	LC05	78- 33	160	74-13N	TTL	JANM38510/02302BCA	none	DL	LC05	101- 48
51	74-11N	TTL	N74H11F	Δ	DL	LC05	79- 56	161	74-13N	TTL	JANM38510/02302BCB	Δ	DL	LC05	101- 49
52	74-11N	TTL	N74H11N	Δ	DL	LC05	79- 57	162	74-13N	TTL	JANM38510/02302BDA	none	FL	LC05	101- 50
53	74-11N	TTL	N74LS11D	SIC	DL	LC05	79- 64	163	74-13N	TTL	JANM38510/02302BDB	none	FL	LC05	101- 51
54	74-11N	TTL	N74LS11N	Δ	DL	LC05	79- 65	164	74-13N	TTL	JANM38510/02302CCA	none	DL	LC05	101- 54
55	74-11N	TTL	N74S11D	SIC	DL	LC05	79- 74	165	74-13N	TTL	JANM38510/02302CCB	FSC	DL	LC05	101- 55
56	74-11N	TTL	N74S11N	Δ	DL	LC05	79- 75	166	74-13N	TTL	JANM38510/02302CDA	none	FL	LC05	102- 1
57	74-11N	TTL	N7411F	Δ	DL	LC05	80- 7	167	74-13N	TTL	JANM38510/02302CDB	none	FL	LC05	102- 2
58	74-11N	TTL	N7411N	Δ	DL	LC05	80- 8	168	74-13N	TTL	JANM38510/07006BCA	NSC	DL	LC05	103- 26
59	74-11N	TTL	SN54H11J	TII	DL	LC05	80- 70	169	74-13N	TTL	JANM38510/07006BCB	FSC	DL	LC05	103- 27
60	74-11N	TTL	SN54LS11J	Δ	DL	LC05	77- 34	170	74-13N	TTL	JANM38510/07006CCA	none	DL	LC05	103- 32
61	74-11N	TTL	SN54S11J	TII	DL	LC05	80- 80	171	74-13N	TTL	JANM38510/07006CCB	FSC	DL	LC05	103- 33
62	74-11N	TTL	SN74ALS11J	TII	DL	LC05	80- 90	172	74-13N	TTL	JANM38510/30007BCA	NSC	DL	LC05	96- 38
63	74-11N	TTL	SN74ALS11N	TII	DL	LC05	80- 92	173	74-13N	TTL	JANM38510/30007BCC	NSC	DL	LC05	96- 39
64	74-11N	TTL	SN74H11J	TII	DL	LC05	80-102	174	74-13N	TTL	JANM38510/30007CCA	NSC	DL	LC05	96- 46
65	74-11N	TTL	SN74H11N	TII	DL	LC05	80-103	175	74-13N	TTL	JANM38510/30007CCC	NSC	DL	LC05	96- 47
66	74-11N	TTL	SN74LS11J	Δ	DL	LC05	81- 2	176	74-13N	TTL	MB404	FCAJ	DL	LC05	104- 52
67	74-11N	TTL	SN74LS11N	Δ	DL	LC05	81- 3	177	74-13N	TTL	MB404M	FCAJ	DL	LC05	104- 53
68	74-11N	TTL	SN74S11J	TII	DL	LC05	81- 12	178	74-13N	TTL	MB603	FCAJ	DL	LC05	104- 64
69	74-11N	TTL	SN74S11N	TII	DL	LC05	81- 13	179	74-13N	TTL	MB605	FCAJ	DL	LC05	104- 66
70	74-11N	TTL	S54H11F	Δ	DL	LC05	80- 17	180	74-13N	TTL	MB74LS20	FCAJ	DL	LC05	104- 30
71	74-11N	TTL	S54LS11F	Δ	DL	LC05	77- 24	181	74-13N	TTL	MB74LS20M	FCAJ	DL	LC05	104- 31
72	74-11N	TTL	S54S11F	Δ	DL	LC05	80- 25	182	74-13N	TTL	MB74LS40	FCAJ	DL	LC05	104- 42
73	74-11N	TTL	S5411F	Δ	DL	LC05	80- 33	183	74-13N	TTL	MB74LS40M	FCAJ	DL	LC05	104- 43
74	74-11N	TTL	T54LS11D2	SGAI	DL	LC05	77- 42	184	74-13N	TTL	MC3025L, P%	MOTA	DL	LC05	108- 98
75	74-11N	TTL	T74LS11B1	SGAI	DL	LC05	81- 20	185	74-13N	TTL	M53220P	MITJ	DL	LC05	104- 15
76	74-11N	TTL	T74LS11D1	SGAI	DL	LC05	81- 21	186	74-13N	TTL	M53240P	MITJ	DL	LC05	104- 19
77	74-11N	TTL	54F11DM	FSC	DL	LC05	77- 47	187	74-13N	TTL	M74ALS1020P	MITJ	DL	LC05	100- 12
78	74-11N	TTL	54H11DM	FSC	DL	LC05	77- 49	188	74-13N	TTL	M74ALS20AP	MITJ	DL	LC05	100- 4
79	74-11N	TTL	54LS11DM	FSC	DL	LC05	76- 8	189	74-13N	TTL	M74ALS40P	MITJ	DL	LC05	100- 9
80	74-11N	TTL	54S11DM	FSC	DL	LC05	77- 54	190	74-13N	TTL	M74LS20P	MITJ	DL	LC05	100- 17
81	74-11N	TTL	5411DM	FSC	DL	LC05	75-104	191	74-13N	TTL	M74LS40P	MITJ	DL	LC05	100- 22
82	74-11N	TTL	74F11DC	FSC	DL	LC05	77- 58	192	74-13N	TTL	N74H20F	Δ	DL	LC05	104- 84
83	74-11N	TTL	74F11PC	FSC	DL	LC05	77- 59	193	74-13N	TTL	N74H20N	Δ	DL	LC05	104- 85
84	74-11N	TTL	74H11DC	FSC	DL	LC05	77- 60	194	74-13N	TTL	N74LS20D	SIC	DL	LC05	105- 1
85	74-11N														

FUNCTIONAL EQUIVALENCE MASTER INDEX

IN ORDER OF: (1)FUNCTIONAL NO. (2) TECH
(3)TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE
1	74-13N	TTL	SN54LS20J	Δ	DL	LC05	97- 77	111▼	74H20	TTL	N74F20N	Δ	DL	LC05	104- 76
2	74-13N	TTL	SN54LS40J	THI	DL	LC05	98- 8	112	74-21	TTL	SN54ALS21J#	MOTA	DL	LC05	80- 67
3	74-13N	TTL	SN54L20J	THI	DL	LC05	97- 63	113	74-21	TTL	SN74ALS21J#	MOTA	DL	LC05	80- 97
4	74-13N	TTL	SN54S140J	THI	DL	LC05	107- 7	114▼	74-21	TTL	SN74ALS21N#	MOTA	DL	LC05	80- 99
5	74-13N	TTL	SN54S20J	THI	DL	LC05	106- 98	115▼	74-21N	TTL	M74ALS21P	MITJ	DL	LC05	78- 29
6	74-13N	TTL	SN54S40J	THI	DL	LC05	107- 1	116▼	74-21N	TTL	N74LS21D	SIC	DL	LC05	79- 68
7	74-13N	TTL	SN5420J	THI	DL	LC05	110- 79			TTL	MC3126F	MOTA	FL	LC05	81- 30
8	74-13N	TTL	SN5440J	THI	DL	LC05	108- 22	117	74H21	TTL	MC3126L	MOTA	DL	LC05	81- 31
9	74-13N	TTL	SN74ALS20J	THI	DL	LC05	107- 25	118	74H21	TTL	DM54H21J	NSC	DL	LC05	77- 82
10	74-13N	TTL	SN74ALS20N	THI	DL	LC05	107- 27	119	74H21N	TTL	DM74H21N	NSC	DL	LC05	77- 85
11	74-13N	TTL	SN74H20J	THI	DL	LC05	107- 54	120	74H21N	TTL	JANM38510/15503BCA	none	DL	LC05	79- 28
12	74-13N	TTL	SN74H20N	THI	DL	LC05	107- 55	121	74H21N	TTL	JANM38510/15503BCB	MOTA	DL	LC05	79- 29
13	74-13N	TTL	SN74H40J	THI	DL	LC05	107- 60	122	74H21N	TTL	JANM38510/15503CCA	none	DL	LC05	79- 30
14	74-13N	TTL	SN74H40N	THI	DL	LC05	107- 61	123	74H21N	TTL	JANM38510/15503CCB	none	DL	LC05	79- 31
15	74-13N	TTL	SN74LS20J	Δ	DL	LC05	107- 72	124	74H21N	TTL	JANM38510/31002BCB	none	DL	LC05	76- 35
16	74-13N	TTL	SN74LS20N	Δ	DL	LC05	107- 73	125	74H21N	TTL	JANM38510/31002CCB	NSC	DL	LC05	76- 52
17	74-13N	TTL	SN74LS40J	Δ	DL	LC05	107- 84	126	74H21N	TTL	JANM38510/31003BCA	NSC	DL	LC05	76- 53
18	74-13N	TTL	SN74LS40N	THI	DL	LC05	107- 85	127	74H21N	TTL	JANM38510/31003CCB	NSC	DL	LC05	76- 60
19	74-13N	TTL	SN74S140J	THI	DL	LC05	107-110	128	74H21N	TTL	JANM38510/31003CCA	NSC	DL	LC05	76- 61
20	74-13N	TTL	SN74S140N	THI	DL	LC05	108- 1	129	74H21N	TTL	JANM38510/31003CCC	NSC	DL	LC05	76- 61
21	74-13N	TTL	SN74S20J	THI	DL	LC05	107- 94	130	74H21N	TTL	MB614	FCAJ	DL	LC05	79- 46
22	74-13N	TTL	SN74S20N	THI	DL	LC05	107- 95	131	74H21N	TTL	MB74LS21M	FCAJ	DL	LC05	79- 45
23	74-13N	TTL	SN74S40J	THI	DL	LC05	107-104	132	74H21N	TTL	MC3026L,P%	MOTA	DL	LC05	81- 32
24	74-13N	TTL	SN74S40N	THI	DL	LC05	107-105	133	74H21N	TTL	N74H21N	Δ	DL	LC05	79- 59
25	74-13N	TTL	SN7420J	THI	DL	LC05	110- 85	134	74H21N	TTL	N74LS21N	Δ	DL	LC05	79- 69
26	74-13N	TTL	SN7420N	THI	DL	LC05	110- 86	135	74H21N	TTL	N7421F	Δ	DL	LC05	80- 9
27	74-13N	TTL	SN7430N	THI	DL	LC05	108- 40	136	74H21N	TTL	N7421N	Δ	DL	LC05	80- 10
28	74-13N	TTL	SN7440J	THI	DL	LC05	108- 45	137	74H21N	TTL	SN54H21J	TII	DL	LC05	80- 74
29	74-13N	TTL	SN7440N	THI	DL	LC05	108- 46	138	74H21N	TTL	SN54LS21J	Δ	DL	LC05	77- 38
30	74-13N	TTL	S54H20F	THI	DL	LC05	105- 53	139	74H21N	TTL	SN74ALS21J	TII	DL	LC05	80- 96
31	74-13N	TTL	S54LS20F	Δ	DL	LC05	97- 40	140	74H21N	TTL	SN74ALS21N	TII	DL	LC05	80- 98
32	74-13N	TTL	S54S20F	Δ	DL	LC05	105- 65	141	74H21N	TTL	SN74H21J	TII	DL	LC05	80-106
33	74-13N	TTL	S5420F	Δ	DL	LC05	105- 84	142	74H21N	TTL	SN74H21N	TII	DL	LC05	80-107
34	74-13N	TTL	S8H16A	Δ	DL	LC05	110-105	143	74H21N	TTL	SN74LS21J	Δ	DL	LC05	81- 6
35	74-13N	TTL	S8H16F	Δ	DL	LC05	110-106	144	74H21N	TTL	SN74LS21N	Δ	DL	LC05	81- 7
36	74-13N	TTL	S8455A	Δ	DL	LC05	111- 8	145	74H21N	TTL	S54H21F	Δ	DL	LC05	80- 19
37	74-13N	TTL	S8455F	Δ	DL	LC05	111- 9	146	74H21N	TTL	S54LS21F	Δ	DL	LC05	77- 28
38	74-13N	TTL	T54LS20D2	SGAI	DL	LC05	98- 14	147	74H21N	TTL	S5421F	Δ	DL	LC05	80- 35
39	74-13N	TTL	T74LS20B1	SGAI	DL	LC05	108- 53	148	74H21N	TTL	54H21DM	FSC	DL	LC05	77- 51
40	74-13N	TTL	T74LS20D1	SGAI	DL	LC05	108- 54	149	74H21N	TTL	54LS21DM	FSC	DL	LC05	76- 11
41	74-13N	TTL	54F20DM	FSC	DL	LC05	98- 24	150	74H21N	TTL	5421DM	FSC	DL	LC05	75-105
42	74-13N	TTL	54H20DM	FSC	DL	LC05	98- 32	151	74H21N	TTL	74H21DC	FSC	DL	LC05	77- 62
43	74-13N	TTL	54LS20DM	FSC	DL	LC05	94- 38	152	74H21N	TTL	74H21PC	FSC	DL	LC05	77- 63
44	74-13N	TTL	54S20DM	FSC	DL	LC05	98- 43	153	74H21N	TTL	74LS21DC	FSC	DL	LC05	77- 70
45	74-13N	TTL	5420DM	FSC	DL	LC05	110- 72	154	74H21N	TTL	74LS21PC	FSC	DL	LC05	77- 71
46	74-13N	TTL	74F20DC	FSC	DL	LC05	98- 55	155	74H21N	TTL	7421DC	FSC	DL	LC05	75-109
47	74-13N	TTL	74F20PC	FSC	DL	LC05	98- 56	156	74H21N	TTL	7421PC	FSC	DL	LC05	75-110
48	74-13N	TTL	74H20DC	FSC	DL	LC05	98- 63	157	74-22	TTL	SN54ALS22J#	MOTA	DL	LC05	106- 68
49	74-13N	TTL	74H20PC	FSC	DL	LC05	98- 64	158	74-22	TTL	SN54LS22J#mil	TII	DL	LC05	106- 69
50	74-13N	TTL	74LS20DC	FSC	DL	LC05	98- 75	159▼	74-22	TTL	SN74ALS22J#	MOTA	DL	LC05	107- 30
51	74-13N	TTL	74LS20PC	FSC	DL	LC05	98- 76	160▼	74-22	TTL	SN74ALS22N#	MOTA	DL	LC05	107- 32
52	74-13N	TTL	74S20DC	FSC	DL	LC05	98- 90	161	74-22N	DTL	N8415A	Δ	DL	LC05	67-107
53	74-13N	TTL	74S20PC	FSC	DL	LC05	98- 91	162	74-22N	DTL	N8415F	Δ	DL	LC05	67-108
54	74-13N	TTL	7420DC	FSC	DL	LC05	99- 6	163	74-22N	DTL	N8415J	Δ	FL	LC05	67-109
55	74-13N	TTL	7420PC	FSC	DL	LC05	99- 7	164	74-22N	DTL	S8415A	Δ	DL	LC05	68- 3
56	74-13N	TTL	9004DC	FSC	DL	LC05	93-110	165	74-22N	DTL	S8415F	Δ	DL	LC05	68- 4
57	74-13N	TTL	9004DM	FSC	DL	LC05	93-102	166	74-22N	DTL	DM74H22N	NSC	DL	LC05	99- 27
58	74-15	TTL	SN54ALS15J#	MOTA	DL	LC05	80- 65	167	74-22N	TTL	DM74S22N	NSC	DL	LC05	99- 34
59	74-15	TTL	SN54ALS15N	MOTA	DL	LC05	80- 66	168	74-22N	TTL	JANM38510/02307BCA	none	DL	LC05	102- 41
60	74-15	TTL	SN74ALS15J	Δ	DL	LC05	80- 94	169	74-22N	TTL	JANM38510/02307BCB	Δ	DL	LC05	102- 42
61	74-15	TTL	SN74ALS15N	Δ	DL	LC05	80- 95	170	74-22N	TTL	JANM38510/02307CCA	none	DL	LC05	102- 45
62▼	74-15N	TTL	M74ALS15P	MITJ	DL	LC05	78- 28	171	74-22N	TTL	JANM38510/02307CCB	FSC	DL	LC05	102- 46
63	74H15	TTL	SN54ALS15J	THI	DL	LC05	80- 64	172	74-22N	TTL	JANM38510/07007BCA	none	DL	LC05	103- 36
64	74H15N	TTL	DM74S15N	NSC	DL	LC05	77- 87	173	74-22N	TTL	JANM38510/07007BCB	none	DL	LC05	103- 37
65	74H15N	TTL	JANM38510/08002BCA	none	DL	LC05	78- 72	174	74-22N	TTL	JANM38510/07007CCA	none	DL	LC05	103- 40
66	74H15N	TTL	JANM38510/08002BCB	none	DL	LC05	79- 1	175	74-22N	TTL	JANM38510/07007CCB	none	DL	LC05	103- 41
67	74H15N	TTL	JANM38510/08002CCA	none	DL	LC05	79- 4	176	74-22N	TTL	JANM38510/30008BCA	NSC	DL	LC05	96- 54
68	74H15N	TTL	JANM38510/08002CCB	none	DL	LC05	79- 5	177	74-22N	TTL	JANM38510/30008BCB	Δ	DL	LC05	96- 55
69	74H15N	TTL	JANM38510/31002BCA	NSC	DL	LC05	76- 34	178	74-22N	TTL	JANM38510/30008BCC	NSC	DL	LC05	97- 1
70	74H15N	TTL	JANM38510/31002BCC	NSC	DL	LC05	76- 36	179	74-22N	TTL	JANM38510/30008CCA	NSC	DL	LC05	97- 7
71	74H15N	TTL	JANM38510/31002CCA	none	DL	LC05	76- 43	180	74-22N	TTL	JANM38510/30008CCB	NSC	DL	LC05	97- 8
72	74H15N	TTL	JANM38510/31002CCB	none	DL	LC05	76- 44	181	74-22N	TTL	JANM38510/30008CCC	NSC	DL	LC05	97- 9
73	74H15N	TTL	JANM38510/31002CCC	NSC	DL	LC05	76- 45	182	74-22N	TTL	MB402	FCAJ	DL	LC05	104- 48
74	74H15N	TTL	MB74LS15	FCAJ	DL	LC05	79- 42	183	74-22N	TTL	MB42M	FCAJ	DL	LC05	104- 49
75	74H15N	TTL	MB74LS15M	FCAJ	DL	LC05	79- 43	184	74-22N	TTL	MB74LS22	FCAJ	DL	LC05	104- 32
76	74H15N	TTL	M74LS15P	MITJ	DL	LC05	78- 34	185	74-22N	TTL	MB74LS22M	FCAJ	DL	LC05	104- 33
77	74H15N	TTL	N74LS15F	Δ	DL	LC05	79- 66	186▼	74-22N	TTL	M74LS22AP	MITJ	DL	LC05	100- 5
78	74H15N	TTL	N74LS15N	Δ	DL	LC05	79- 67	187	74-22N	TTL	M74LS22J	MITJ	DL	LC05	100- 18
79	74H15N	TTL	N74S15F	Δ	DL	LC05	80- 1	188	74-22N	TTL	N74H22F	Δ	DL	LC05	104- 86
80	74H15N	TTL	N74S15N	Δ	DL	LC05	80- 2	189	74-22N	TTL	N74H22N	Δ	DL	LC05	104- 87
81	74H15N	TTL	SN64H15J	TII	DL	LC05	80- 72	190	74-22N	TTL	N74LS22F	Δ	DL	LC05	105- 3
82	74H15N	TTL	SN54LS15J	Δ	DL	LC05	77- 36	191	74-22N	TTL	N74LS22N	Δ	DL	LC05	105- 4
83	74H15N	TTL	SN54S15J	TII	DL	LC05	80- 82	192	74-22N	TTL	N74S22F	Δ	DL	LC05	105- 17
84	74H15N	TTL	SN54S15W	TII	MO	LC05	80- 83	193	74-22N	TTL	N74S22N	Δ	DL	LC05	105- 18
85	74H15N	TTL	SN74H15J	TII	DL	LC05									

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IN ORDER OF: (1)FUNCTIONAL NO. (2) TECH
(3)TYPE NUMBER

LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE
1	74-22N	TTL	74S22PC	FSC	DL	LC05	98- 93	111	74-30N	TTL	JANM38510/02301BCA	none	DL	LC05	101- 37
2	74-22N	TTL	7422DC	FSC	DL	LC05	94- 23	112	74-30N	TTL	JANM38510/02301BCB	none	DL	LC05	101- 38
3	74-22N	TTL	7422PC	FSC	DL	LC05	94- 24	113	74-30N	TTL	JANM38510/02301CCA	none	DL	LC05	101- 43
4	74-23N	TTL	DM5423J	NSC	DL	LC05	90- 80	114	74-30N	TTL	JANM38510/02301CCB	FSC	DL	LC05	101- 44
5	74-23N	TTL	DM7423N	NSC	DL	LC05	91- 7	115	74-30N	TTL	JANM38510/07008BCB	FSC	DL	LC05	103- 46
6	74-23N	TTL	JANM38510/00402BEA	none	DL	LC05	91- 36	116	74-30N	TTL	JANM38510/07008CCB	FSC	DL	LC05	103- 49
7	74-23N	TTL	JANM38510/00402BEB	none	DL	LC05	91- 37	117	74-30N	TTL	JANM38510/30009BCA	NSC	DL	LC05	97- 15
8	74-23N	TTL	JANM38510/00402CEA	none	DL	LC05	91- 40	118	74-30N	TTL	JANM38510/30009BCB	NSC	DL	LC05	97- 16
9	74-23N	TTL	JANM38510/00402CEB	none	DL	LC05	91- 41	119	74-30N	TTL	JANM38510/30009BCC	NSC	DL	LC05	97- 17
10	74-23N	TTL	N7423F	none	DL	LC05	92- 32	120	74-30N	TTL	JANM38510/30009CCA	NSC	DL	LC05	97- 24
11	74-23N	TTL	N7423N	none	DL	LC05	92- 33	121	74-30N	TTL	JANM38510/30009CCB	NSC	DL	LC05	97- 25
12	74-23N	TTL	SN5423J	none	DL	LC05	92- 98	122	74-30N	TTL	JANM38510/30009CCC	NSC	DL	LC05	97- 26
13	74-23N	TTL	SN7423J	none	DL	LC05	93- 5	123	74-30N	TTL	MB403	FCAJ	DL	LC05	104- 50
14	74-23N	TTL	SN7423N	none	DL	LC05	93- 6	124	74-30N	TTL	MB403M	FCAJ	DL	LC05	104- 51
15	74-23N	TTL	S5423F	none	DL	LC05	92- 46	125	74-30N	TTL	MB604	FCAJ	DL	LC05	104- 65
16	74-23N	TTL	7423PC	FSC	DL	LC05	90- 73	126	74-30N	TTL	MB74LS30	FCAJ	DL	LC05	104- 36
17	74LS24	TTL	SN74LS24J	TTL	DL	LC05	108-105	127	74-30N	TTL	MB74LS30M	FCAJ	DL	LC05	104- 37
18	74LS24	TTL	SN74LS24N	TTL	DL	LC05	108-106	128	74-30N	TTL	M53230P	MITJ	DL	LC05	104- 16
19	74-25N	TTL	DM5425J	NSC	DL	LC05	91- 2	129	74-30N	TTL	M74ALS30P	MITJ	DL	LC05	100- 6
20	74-25N	TTL	DM7425N	NSC	DL	LC05	91- 8	130	74-30N	TTL	M74LS30P	MITJ	DL	LC05	100- 19
21	74-25N	TTL	JANM38510/00403BCA	none	DL	LC05	91- 45	131	74-30N	TTL	N74H30F	none	DL	LC05	104- 88
22	74-25N	TTL	JANM38510/00403BCB	none	DL	LC05	91- 46	132	74-30N	TTL	N74H30N	none	DL	LC05	104- 89
23	74-25N	TTL	JANM38510/00403CAB	none	DL	LC05	91- 48	133	74-30N	TTL	N74LS30D	SIC	DL	LC05	105- 7
24	74-25N	TTL	JANM38510/00403CCA	none	DL	LC05	91- 49	134	74-30N	TTL	N74LS30N	none	DL	LC05	105- 8
25	74-25N	TTL	JANM38510/00403CCB	none	DL	LC05	91- 50	135	74-30N	TTL	N7430F	none	DL	LC05	105- 39
26	74-25N	TTL	M53225P	MITJ	DL	LC05	92- 6	136	74-30N	TTL	N7430N	none	DL	LC05	105- 40
27	74-25N	TTL	N7425F	none	DL	LC05	92- 34	137	74-30N	TTL	N8808A	none	DL	LC05	108-108
28	74-25N	TTL	N7425N	none	DL	LC05	92- 35	138	74-30N	TTL	SFC430E	THEF	DL	LC05	106- 31
29	74-25N	TTL	N8815A	none	DL	LC05	93- 41	139	74-30N	TTL	SFC430EM	THEF	DL	LC05	106- 32
30	74-25N	TTL	N8815J	none	DL	LC05	93- 42	140	74-30N	TTL	SFC430ET	THEF	DL	LC05	106- 33
31	74-25N	TTL	SN5425J	none	DL	LC05	92-100	141	74-30N	TTL	SFC430HE	THEF	DL	LC05	106- 34
32	74-25N	TTL	SN7425J	none	DL	LC05	93- 7	142	74-30N	TTL	SFC430LE	THEF	DL	LC05	106- 37
33	74-25N	TTL	SN7425N	none	DL	LC05	93- 8	143	74-30N	TTL	SFC430LEM	THEF	DL	LC05	97- 58
34	74-25N	TTL	S5425F	none	DL	LC05	92- 48	144	74-30N	TTL	SN54H30J	TII	DL	LC05	106- 88
35	74-25N	TTL	S8815A	none	DL	LC05	93- 49	145	74-30N	TTL	SN54LS30J	none	DL	LC05	98- 2
36	74-25N	TTL	S8815J	none	DL	LC05	93- 50	146	74-30N	TTL	SN54L30J	TII	DL	LC05	97- 65
37	74-25N	TTL	ZN5425E	FERB	DL	LC05	93- 22	147	74-30N	TTL	SN54S30J	TII	DL	LC05	106-102
38	74-25N	TTL	ZN5425J	FERB	DL	LC05	93- 23	148	74-30N	TTL	SN5430J	TII	DL	LC05	108- 16
39	74-25N	TTL	ZN7425E	FERB	DL	LC05	93- 28	149	74-30N	TTL	SN74ALS30J	TII	DL	LC05	107- 33
40	74-25N	TTL	ZN7425J	FERB	DL	LC05	93- 29	150	74-30N	TTL	SN74ALS30N	TII	DL	LC05	107- 34
41	74-25N	TTL	5425DM	FSC	DL	LC05	90- 67	151	74-30N	TTL	SN74H30J	TII	DL	LC05	107- 58
42	74-25N	TTL	7425DC	FSC	DL	LC05	90- 74	152	74-30N	TTL	SN74H30N	TII	DL	LC05	107- 59
43	74-25N	TTL	7425PC	FSC	DL	LC05	90- 75	153	74-30N	TTL	SN74LS30J	TII	DL	LC05	107- 78
44	74-27	TTL	SN54ALS27J	MOTA	DL	LC05	92- 60	154	74-30N	TTL	SN74LS30N	none	DL	LC05	107- 79
45	74-27	TTL	SN54ALS27N	MOTA	DL	LC05	92- 62	155	74-30N	TTL	SN74S30J	none	DL	LC05	107- 98
46	74-27N	TTL	DM5427J	NSC	DL	LC05	91- 4	156	74-30N	TTL	SN74S30N	TII	DL	LC05	107- 99
47	74-27N	TTL	DM7427N	NSC	DL	LC05	91- 9	157	74-30N	TTL	SN7430J	TII	DL	LC05	108- 39
48	74-27N	TTL	JANM38510/00404BCA	none	DL	LC05	91- 53	158	74-30N	TTL	S54H30F	none	DL	LC05	105- 57
49	74-27N	TTL	JANM38510/00404BCB	none	DL	LC05	91- 54	159	74-30N	TTL	S54LS30F	none	DL	LC05	97- 46
50	74-27N	TTL	JANM38510/00404CCA	none	DL	LC05	91- 59	160	74-30N	TTL	S5430F	none	DL	LC05	105- 87
51	74-27N	TTL	JANM38510/00404CCB	FSC	DL	LC05	91- 60	161	74-30N	TTL	S8808A	none	DL	LC05	109- 10
52	74-27N	TTL	JANM38510/30302BCA	NSC	DL	LC05	90- 18	162	74-30N	TTL	T54LS30D2	SGAI	DL	LC05	98- 17
53	74-27N	TTL	JANM38510/30302BCB	NSC	DL	LC05	90- 19	163	74-30N	TTL	T74LS30B1	SGAI	DL	LC05	108- 59
54	74-27N	TTL	JANM38510/30302BCC	NSC	DL	LC05	90- 20	164	74-30N	TTL	T74LS30D1	SGAI	DL	LC05	108- 60
55	74-27N	TTL	JANM38510/30302CCA	NSC	DL	LC05	90- 26	165	74-30N	TTL	54H30DM	FSC	DL	LC05	98- 36
56	74-27N	TTL	JANM38510/30302CCB	NSC	DL	LC05	90- 27	166	74-30N	TTL	54LS30DM	FSC	DL	LC05	94- 43
57	74-27N	TTL	JANM38510/30302CCC	NSC	DL	LC05	90- 28	167	74-30N	TTL	54S30DM	FSC	DL	LC05	98- 46
58	74-27N	TTL	MB74LS27	FCAJ	DL	LC05	92- 10	168	74-30N	TTL	74H30DC	FSC	DL	LC05	98- 67
59	74-27N	TTL	MB74LS27M	FCAJ	DL	LC05	92- 11	169	74-30N	TTL	74H30PC	FSC	DL	LC05	98- 68
60	74-27N	TTL	M53227F	MITJ	DL	LC05	92- 7	170	74-30N	TTL	74LS30DC	FSC	DL	LC05	98- 80
61	74-27N	TTL	M74ALS27P	MITJ	DL	LC05	91- 16	171	74-30N	TTL	74LS30PC	FSC	DL	LC05	98- 81
62	74-27N	TTL	M74LS27P	MITJ	DL	LC05	91- 21	172	74-30N	TTL	74S30DC	FSC	DL	LC05	98- 94
63	74-27N	TTL	N74LS27F	none	DL	LC05	92- 22	173	74-30N	TTL	74S30PC	FSC	DL	LC05	98- 95
64	74-27N	TTL	N74LS27N	none	DL	LC05	92- 23	174	74-30N	TTL	7430DC	FSC	DL	LC05	99- 10
65	74-27N	TTL	N7427F	none	DL	LC05	92- 36	175	74-30N	TTL	7430PC	FSC	DL	LC05	99- 11
66	74-27N	TTL	N7427N	none	DL	LC05	92- 37	176	74-32	PCH	MM74PC32J	NSC	DL	LC05	75- 12
67	74-27N	TTL	N8875A	none	DL	LC05	93- 43	177	74-32	PCH	MM74PC32JI	NSC	DL	LC05	75- 13
68	74-27N	TTL	N8875F	none	DL	LC05	93- 44	178	74-32	PCH	MM74PC32NI	NSC	DL	LC05	75- 14
69	74-27N	TTL	SN54LS27J	none	DL	LC05	90- 41	179	74-32	PCH	MM74PC32NI	NSC	DL	LC05	75- 15
70	74-27N	TTL	SN5427J	TII	DL	LC05	92-102	180	74-32	TTL	N74F32N	none	DL	LC05	88- 12
71	74-27N	TTL	SN74ALS27J	none	DL	LC05	92- 74	181	74-32	TTL	S54F32F	none	DL	LC05	88- 19
72	74-27N	TTL	SN74ALS27N	none	DL	LC05	92- 75	182	74-32N	CMS	MM54C32D	NSC	DL	LC05	57- 73
73	74-27N	TTL	SN74LS27J	none	DL	LC05	92- 84	183	74-32N	CMS	MM74C32N	NSC	DL	LC05	57- 74
74	74-27N	TTL	SN74LS27N	none	DL	LC05	92- 85	184	74-32N	DTL	MC1808L, P%	MOTA	DL	LC05	66-107
75	74-27N	TTL	SN7427J	TII	DL	LC05	93- 9	185	74-32N	DTL	MC1809L, P%	MOTA	DL	LC05	66-108
76	74-27N	TTL	SN7427N	TII	DL	LC05	93- 10	186	74-32N	DTL	MC1908L	MOTA	DL	LC05	66-104
77	74-27N	TTL	S54LS27F	none	DL	LC05	90- 33	187	74-32N	DTL	MC1909L	MOTA	DL	LC05	66-106
78	74-27N	TTL	S5427F	none	DL	LC05	92- 50	188	74-32N	TTL	DM5432J	NSC	DL	LC05	87- 87
79	74-27N	TTL	S8875A	none	DL	LC05	93- 51	189	74-32N	TTL	DM7432N	NSC	DL	LC05	87- 89
80	74-27N	TTL	T54LS27D2	SGAI	DL	LC05	90- 49	190	74-32N	TTL	JANM38510/16101BCA	none	DL	LC05	88- 2
81	74-27N	TTL	T74LS27D1	SGAI	DL	LC05	93- 21	191	74-32N	TTL	JANM38510/16101BCB	SIC	DL	LC05	88- 3
82	74-27N	TTL	ZN5427E	FERB	DL	LC05	93- 24	192	74-32N	TTL	JANM38510/16101CCA	none	DL	LC05	88- 6
83	74-27N	TTL	ZN5427J	FERB	DL	LC05	93- 25	193	74-32N	TTL	JANM38510/16101CCB	none	DL	LC05	88- 7
84	74-27N	TTL	ZN7427E	FERB	DL	LC05	93- 30	194	74-32N	TTL	JANM38510/30501BCA	NSC	DL	LC05	87- 53
85	74-27N	TTL	ZN7427J	FERB	DL	LC05	93- 31	195	74-32N	TTL	JANM38510/30501BCB				

FUNCTIONAL EQUIVALENCE MASTER INDEX

IN ORDER OF: (1)FUNCTIONAL NO. (2) TECH
(3)TYPE NUMBER

LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE
1	74-32N	TTL	S54S32F	Δ	DL	LC05	88- 21	111	74-43N	TTL	JANM38510/01002CFA	none	DL	LC06	121- 7
2	74-32N	TTL	S5432F	Δ	DL	LC05	88- 23	112	74-43N	TTL	N7443F	Δ	DL	LC06	121- 9
3	74-32N	TTL	T54LS32D2	SGAI	DL	LC05	87- 72	113	74-43N	TTL	N7443N	Δ	DL	LC06	120- 9
4	74-32N	TTL	T74LS32B1	SGAI	DL	LC05	88- 42	114	74-43N	TTL	SN7443AJ	TII	DL	LC06	121- 14
5	74-32N	TTL	T74LS32D1	SGAI	DL	LC05	88- 43	115	74-44N	TTL	M53244P	MITJ	DL	LC06	116- 31
6	74-32N	TTL	ZN5432E	FERRB	DL	LC05	88- 44	116	74-44N	TTL	JANM38510/01003BEA	none	DL	LC06	121- 54
7	74-32N	TTL	ZN5432J	FERRB	DL	LC05	88- 45	117	74-44N	TTL	JANM38510/01003BEB	MOTA	DL	LC06	121- 55
8	74-32N	TTL	ZN7432E	FERRB	DL	LC05	88- 46	118	74-44N	TTL	JANM38510/01003BFA	none	DL	LC06	121- 56
9	74-32N	TTL	ZN7432J	FERRB	DL	LC05	88- 47	119	74-44N	TTL	JANM38510/01003CEA	none	DL	LC06	121- 58
10	74-32N	TTL	54F32DM	FSC	DL	LC05	87- 73	120	74-44N	TTL	JANM38510/01003CEB	none	DL	LC06	121- 59
11	74-32N	TTL	54LS32DM	FSC	DL	LC05	87- 48	121	74-44N	TTL	JANM38510/01003CFA	none	DL	LC06	121- 60
12	74-32N	TTL	54S32DM	FSC	DL	LC05	87- 75	122	74-44N	TTL	N7444F	Δ	DL	LC06	121- 65
13	74-32N	TTL	5432DM	FSC	DL	LC05	87- 83	123	74-44N	TTL	N7444N	Δ	DL	LC06	121- 66
14	74-32N	TTL	74F32DC	FSC	DL	LC05	87- 77	124	74-44N	TTL	SN5444AJ	TII	DL	LC06	121- 69
15	74-32N	TTL	74F32PC	FSC	DL	LC05	87- 78	125	74-44N	TTL	SN7444AJ	TII	DL	LC06	121- 71
16	74-32N	TTL	74LS32DC	FSC	DL	LC05	87- 79	126	74-44N	TTL	SN7444AN	TII	DL	LC06	121- 72
17	74-32N	TTL	74LS32PC	FSC	DL	LC05	87- 80	127	74-44N	TTL	S5444F	Δ	DL	LC06	121- 67
18	74-32N	TTL	74S32DC	FSC	DL	LC05	87- 81	128	74-44N	TTL	5444AFM	FSC	DL	LC06	121- 17
19	74-32N	TTL	74S32PC	FSC	DL	LC05	87- 82	129	74-45N	TTL	MB443	FCAJ	DL	LC06	116- 26
20	74-32N	TTL	7432DC	FSC	DL	LC05	87- 85	130	74-45N	TTL	MB443M	FCAJ	DL	LC06	116- 27
21	74-32N	TTL	7432PC	FSC	DL	LC05	87- 86	131	74-45N	DTL	FZL101	DL	LC06	117- 57	
22	74-33	TTL	SN54ALS33J#mil	TII	DL	LC05	92- 64	132	74-45N	TTL	DM5445J	NSC	DL	LC06	119- 32
23	74-33N	TTL	MB74LS33	FCAJ	DL	LC05	92- 14	133	74-45N	TTL	DM74145J	NSC	DL	LC06	119- 49
24	74-33N	TTL	MB74LS33M	FCAJ	DL	LC05	92- 15	134	74-45N	TTL	DM74145N	NSC	DL	LC06	119- 50
25	74-33N	TTL	M74ALS33P	MITJ	DL	LC05	91- 18	135	74-45N	TTL	DM7445N	NSC	DL	LC06	119- 36
26	74-33N	TTL	SN54LS33J	Δ	DL	LC05	90- 45	136	74-45N	TTL	MB74LS145	FCAJ	DL	LC06	121- 64
27	74-33N	TTL	SN5433J	TII	DL	LC05	93- 1	137	74-45N	TTL	MB74LS145M	FCAJ	DL	LC06	120- 2
28	74-33N	TTL	SN74ALS33J	TII	DL	LC05	92- 78	138	74-45N	TTL	M53245P	MITJ	DL	LC06	119- 83
29	74-33N	TTL	SN74ALS33N	TII	DL	LC05	92- 79	139	74-45N	TTL	M53345P	MITJ	DL	LC06	120- 1
30	74-33N	TTL	SN74LS33J	Δ	DL	LC05	92- 88	140	74-45N	TTL	M74LS145P	MITJ	DL	LC06	119- 59
31	74-33N	TTL	SN74LS33N	Δ	DL	LC05	92- 89	141	74-45N	TTL	SN54145J	TII	DL	LC06	120- 48
32	74-33N	TTL	SN7433J	TII	DL	LC05	93- 13	142	74-45N	TTL	SN5445J	TII	DL	LC06	120- 39
33	74-33N	TTL	SN7433N	TII	DL	LC05	93- 14	143	74-45N	TTL	SN74145J	TII	DL	LC06	120- 52
34	74-33N	TTL	74LS33PC	FSC	DL	LC05	90- 60	144	74-45N	TTL	SN74145N	TII	DL	LC06	120- 53
35	74-41N	TTL	M53241P	MITJ	DL	LC06	116- 22	145	74-45N	TTL	SN7445J	TII	DL	LC06	120- 43
36	74-41N	TTL	DM5441AJ	NSC	DL	LC06	119- 28	146	74-45N	TTL	SN7445N	TII	DL	LC06	120- 44
37	74-41N	TTL	DM74141J	NSC	DL	LC06	119- 46	147	74-45N	TTL	S54145E	Δ	DL	LC06	120- 24
38	74-41N	TTL	DM74141N	NSC	DL	LC06	119- 47	148	74-45N	TTL	S54145F	Δ	DL	LC06	120- 25
39	74-41N	TTL	DM7441AN	NSC	DL	LC06	119- 34	149	74-45N	TTL	S5445F	Δ	DL	LC06	120- 18
40	74-41N	TTL	SFC4141E	THEF	DL	LC06	120- 31	150	74-45N	TTL	54145DM	FSC	DL	LC06	119- 17
41	74-41N	TTL	SN74141J	TII	DL	LC06	120- 50	151	74-45DM	TTL	5445DM	FSC	DL	LC06	119- 13
42	74-41N	TTL	SN74141N	TII	DL	LC06	120- 51	152	74-45DM	TTL	74145DC	FSC	DL	LC06	119- 20
43	74-41DC	TTL	74141DC	FSC	DL	LC06	119- 19	153	74-45N	TTL	74145PC	FSC	DL	LC06	119- 21
44	74-41N	TTL	9315DC	FSC	DL	LC06	118- 33	154	74-45N	TTL	7445DC	FSC	DL	LC06	119- 14
45	74-41N	TTL	9315DM	FSC	DL	LC06	118- 34	155	74-45N	TTL	7445PC	FSC	DL	LC06	119- 15
46	74-41N	TTL	9315PC	FSC	DL	LC06	118- 36	156	74-46N	TTL	M74LS47P	MITJ	DL	LC06	120- 90
47	74-42N	TTL	MB442	FCAJ	DL	LC06	116- 24	157	74-46N	TTL	SN74LS47J	TII	DL	LC06	120- 94
48	74-42N	TTL	MB442M	FCAJ	DL	LC06	116- 25	158	74-46N	TTL	SN74LS47N	TII	DL	LC06	120- 95
49	74-42N	TTL	M53242P	MITJ	DL	LC06	116- 23	159	74-46N	TTL	SN7447J	TII	DL	LC06	120- 84
50	74-42N	CMS	MM54C42D	NSC	DL	LC06	117- 32	160	74-46N	TTL	SN7447N	TII	DL	LC06	120- 85
51	74-42N	CMS	MM74C42N	NSC	DL	LC06	117- 33	161	74-48	CMS	MM54C48D	NSC	DL	LC06	117- 40
52	74-42N	DTL	FZL105	SIEG	DL	LC06	117- 58	162	74-48N	CMS	MM74C48N	NSC	DL	LC06	117- 41
53	74-42N	DTL	H158D1	SGAI	DL	LC06	117- 59	163	74-48N	TTL	M74LS48P	MITJ	DL	LC06	120- 91
54	74-42N	DTL	H158D2	SGAI	DL	LC06	117- 60	164	74-48N	TTL	SN74LS48J	TII	DL	LC06	120- 96
55	74-42N	DTL	H158D6	SGAI	DL	LC06	117- 61	165	74-48N	TTL	SN74LS48N	TII	DL	LC06	120- 97
56	74-42N	DTL	H258B1	SGAI	DL	LC06	117- 62	166	74LS49N	TTL	SN74LS49J	TII	DL	LC06	120- 98
57	74-42N	TTL	DM54L42AJ	NSC	DL	LC06	119- 11	167	74LS49N	TTL	SN74LS49N	TII	DL	LC06	120- 99
58	74-42N	TTL	DM5442J	NSC	DL	LC06	119- 30	168	74-50	TTL	SN54S51J	TII	DL	LC05	86- 77
59	74-42N	TTL	DM74L42AN	NSC	DL	LC06	119- 12	169	74-50	TTL	SN74H50J	TII	DL	LC05	86- 83
60	74-42N	TTL	DM7442N	NSC	DL	LC06	119- 35	170	74-50N	TTL	DM54H50J	NSC	DL	LC05	83- 93
61	74-42N	TTL	FJH261-7442	PHIN	DL	LC06	119- 54	171	74-50N	TTL	DM5450J	NSC	DL	LC05	83- 98
62	74-42N	TTL	JANM38510/01001BEA	none	DL	LC06	119- 60	172	74-50N	TTL	DM74H50N	NSC	DL	LC05	83- 94
63	74-42N	TTL	JANM38510/01001BEB	Δ	DL	LC06	119- 61	173	74-50N	TTL	DM74H51N	NSC	DL	LC05	83- 95
64	74-42N	TTL	JANM38510/01001BFA	none	DL	LC06	119- 62	174	74-50N	TTL	DM7450N	NSC	DL	LC05	83-106
65	74-42N	TTL	JANM38510/01001CEA	none	DL	LC06	119- 64	175	74-50N	TTL	DM7451N	NSC	DL	LC05	83-107
66	74-42N	TTL	JANM38510/01001CEB	NSC	DL	LC06	119- 65	176	74-50N	TTL	DM9005CJ	NSC	DL	LC05	83- 5
67	74-42N	TTL	JANM38510/01001CFA	none	DL	LC06	119- 66	177	74-50N	TTL	DM9005CN	NSC	DL	LC05	83- 6
68	74-42N	TTL	JANM38510/30703BEA	none	DL	LC06	119- 76	178	74-50N	TTL	FJH151-7450	PHIN	DL	LC05	82- 24
69	74-42N	TTL	JANM38510/30703BEB	Δ	DL	LC06	119- 77	179	74-50N	TTL	FJH161-7451	PHIN	DL	LC05	82- 25
70	74-42N	TTL	JANM38510/30703CEB	none	DL	LC06	119- 81	180	74-50N	TTL	JANM38510/00501BCA	NSC	DL	LC05	84- 4
71	74-42N	TTL	MB74LS42	FCAJ	DL	LC06	121- 62	181	74-50N	TTL	JANM38510/00501BCB	Δ	DL	LC05	84- 5
72	74-42N	TTL	MB74LS42M	FCAJ	DL	LC06	121- 63	182	74-50N	TTL	JANM38510/00501CCA	NSC	DL	LC05	84- 11
73	74-42N	TTL	M74LS42P	MITJ	DL	LC06	119- 58	183	74-50N	TTL	JANM38510/00501CCB	NSC	DL	LC05	84- 12
74	74-42N	TTL	N74LS42D	SIC	DL	LC06	120- 3	184	74-50N	TTL	JANM38510/00502BCA	NSC	DL	LC05	84- 18
75	74-42N	TTL	N74LS42N	Δ	DL	LC06	120- 4	185	74-50N	TTL	JANM38510/00502BCB	Δ	DL	LC05	84- 19
76	74-42N	TTL	N7442F	Δ	DL	LC06	120- 7	186	74-50N	TTL	JANM38510/00502CCA	NSC	DL	LC05	84- 25
77	74-42N	TTL	N7442N	Δ	DL	LC06	120- 8	187	74-50N	TTL	JANM38510/00502CCB	NSC	DL	LC05	84- 26
78	74-42N	TTL	SFC442E	THEF	DL	LC06	120- 28	188	74-50N	TTL	JANM38510/04001BCA	none	DL	LC05	85- 4
79	74-42N	TTL	SFC442EM	THEF	DL	LC06	120- 29	189	74-50N	TTL	JANM38510/04001BCB	MOTA	DL	LC05	85- 5
80	74-42N	TTL	SFC442ET	THEF	DL	LC06	120- 30	190	74-50N	TTL	JANM38510/04001CCA	none	DL	LC05	85- 10
81	74-42N	TTL	SN29301J	TII	DL	LC06	120- 45	191	74-50N	TTL	JANM38510/04001CCB	none	DL	LC05	85- 11
82	74-42N	TTL	SN29301N	TII	DL	LC06	120- 46	192	74-50N	TTL	JANM38510/04002BCA	none	DL	LC05	85- 16
83	74-42N	TTL	SN39301J	TII	DL	LC06	120- 47	193	74-50N	TTL	JANM38510/04002BCB	MOTA	DL	LC05	85- 17
84	74-42N	TTL	SN54LS42J	Δ	DL	LC06	120- 33	194	74-50N	TTL	JANM38510/04002CCA	none	DL	LC05	85- 22
85	74-42N	TTL	SN54L42												

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IN ORDER OF: (1)FUNCTIONAL NO. (2) TECH
(3)TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE
1	74-50N	TTL	SFC451LE	THEF	DL	LC05	83- 30	111	74-53N	TTL	7453DC	FSC	DL	LC05	83- 89
2	74-50N	TTL	SFC451LEM	THEF	DL	LC05	83- 31	112	74-53N	TTL	7453PC	FSC	DL	LC05	83- 90
3	74-50N	TTL	SN29005N	TII	DL	LC05	83- 9	113	74-53N	TTL	7454DC	FSC	DL	LC05	83- 91
4	74-50N	TTL	SN29005N	TII	DL	LC05	83- 10	114	74-53N	TTL	7454PC	FSC	DL	LC05	83- 92
5	74-50N	TTL	SN54H50J	TII	DL	LC05	86- 67	115	74H53	TTL	9008FM	FSC	FL	LC05	75- 97
6	74-50N	TTL	SN5450J	TII	DL	LC05	86-105	116	74H53N	TTL	DM9008CJ	NSC	DL	LC05	83- 7
7	74-50N	TTL	SN5451J	TII	DL	LC05	87- 2	117	74H53N	TTL	DM9008CN	NSC	DL	LC05	83- 8
8	74-50N	TTL	SN74H50N	TII	DL	LC05	86- 84	118	74H53N	TTL	JANM38510/04003BCA	none	DL	LC05	85- 28
9	74-50N	TTL	SN74H51J	TII	DL	LC05	86- 85	119	74H53N	TTL	JANM38510/04003BCB	MOTA	DL	LC05	85- 29
10	74-50N	TTL	SN74H51N	TII	DL	LC05	86- 86	120	74H53N	TTL	JANM38510/04003CCA	none	DL	LC05	85- 34
11	74-50N	TTL	SN74S51J	TII	DL	LC05	86- 99	121	74H53N	TTL	JANM38510/04003CCB	none	DL	LC05	85- 35
12	74-50N	TTL	SN74S51N	TII	DL	LC05	86-100	122	74H53N	TTL	N74H53F	Δ	DL	LC05	113- 99
13	74-50N	TTL	SN7450J	TII	DL	LC05	87- 8	123	74H53N	TTL	N74H53N	Δ	DL	LC05	113-100
14	74-50N	TTL	SN7450N	TII	DL	LC05	87- 9	124	74H53N	TTL	N8848A	Δ	DL	LC05	87- 25
15	74-50N	TTL	SN7451	TII	FL	LC05	87- 10	125	74H53N	TTL	N8848F	Δ	DL	LC05	87- 26
16	74-50N	TTL	SN7451J	TII	DL	LC05	87- 11	126	74H53N	TTL	SN54H53J	TII	DL	LC05	86- 71
17	74-50N	TTL	SN7451N	TII	DL	LC05	87- 12	127	74H53N	TTL	SN54H53W	TII	DL	LC05	86- 72
18	74-50N	TTL	S54H50F	Δ	DL	LC05	114- 4	128	74H53N	TTL	SN74H53J	TII	DL	LC05	86- 87
19	74-50N	TTL	S54H51F	Δ	DL	LC05	86- 36	129	74H53N	TTL	S54H53F	Δ	DL	LC05	114- 8
20	74-50N	TTL	S54S51F	Δ	DL	LC05	82- 49	130	74H53N	TTL	S8848A	Δ	DL	LC05	87- 28
21	74-50N	TTL	S5450F	Δ	DL	LC05	114- 17	131	74H53N	TTL	S8848F	Δ	DL	LC05	87- 29
22	74-50N	TTL	S5451F	Δ	DL	LC05	86- 45	132	74H53N	TTL	54H53DM	FSC	DL	LC05	83- 55
23	74-50N	TTL	S8840A	Δ	DL	LC05	113- 17	133	74H53N	TTL	74H53DC	FSC	DL	LC05	83- 68
24	74-50N	TTL	S8840F	Δ	DL	LC05	113- 18	134	74H53N	TTL	74H53PC	FSC	DL	LC05	83- 69
25	74-50N	TTL	54H50DM	FSC	DL	LC05	83- 51	135	74H53N	TTL	9008DC	FSC	DL	LC05	75- 99
26	74-50N	TTL	54H51DM	FSC	DL	LC05	83- 53	136	74H53N	TTL	9008DM	FSC	DL	LC05	75- 96
27	74-50N	TTL	54S51DM	FSC	DL	LC05	82- 71	137	74H54N	TTL	JANM38510/04004BCA	none	DL	LC05	85- 40
28	74-50N	TTL	5450DM	FSC	DL	LC05	83- 81	138	74H54N	TTL	JANM38510/04004BCB	MOTA	DL	LC05	85- 41
29	74-50N	TTL	5451DM	FSC	DL	LC05	83- 82	139	74H54N	TTL	JANM38510/04004CCA	none	DL	LC05	85- 46
30	74-50N	TTL	74H50DC	FSC	DL	LC05	83- 63	140	74H54N	TTL	JANM38510/04004CCB	none	DL	LC05	85- 47
31	74-50N	TTL	74H50PC	FSC	DL	LC05	83- 65	141	74H54N	TTL	N74H54F	Δ	DL	LC05	86- 21
32	74-50N	TTL	74H51DC	FSC	DL	LC05	83- 66	142	74H54N	TTL	N74H54N	Δ	DL	LC05	86- 22
33	74-50N	TTL	74H51PC	FSC	DL	LC05	83- 67	143	74H54N	TTL	SFC454HE	THEF	DL	LC05	86- 63
34	74-50N	TTL	74S51DC	FSC	DL	LC05	82- 74	144	74H54N	TTL	SFC454HEM	THEF	DL	LC05	86- 64
35	74-50N	TTL	74S51PC	FSC	DL	LC05	83- 1	145	74H54N	TTL	SN54H54J	TII	DL	LC05	86- 73
36	74-50N	TTL	7450DC	FSC	DL	LC05	83- 85	146	74H54N	TTL	SN74H54J	TII	DL	LC05	86- 89
37	74-50N	TTL	7450PC	FSC	DL	LC05	83- 86	147	74H54N	TTL	SN74H54N	TII	DL	LC05	86- 90
38	74-50N	TTL	7451DC	FSC	DL	LC05	83- 87	148	74H54N	TTL	S54H54F	Δ	DL	LC05	86- 38
39	74-50N	TTL	7451PC	FSC	DL	LC05	83- 88	149	74H54N	TTL	54H54DM	FSC	DL	LC05	83- 56
40	74-50N	TTL	9005DC	FSC	DL	LC05	75- 98	150	74H54N	TTL	74H54DC	FSC	DL	LC05	83- 70
41	74-50N	TTL	9005DM	FSC	DL	LC05	75- 94	151	74H54N	TTL	74H54PC	FSC	DL	LC05	83- 71
42	74L51	TTL	SN54H51J	TII	DL	LC05	86- 69	152	74L54N	TTL	DM54L54J	NSC	DL	LC05	83- 19
43	74L51	TTL	74L551DC	FSC	DL	LC05	83- 73	153	74L54N	TTL	DM74L54N	NSC	DL	LC05	83- 22
44	74L51	TTL	74L551PC	FSC	DL	LC05	83- 74	154	74L54N	TTL	JANM38510/30402BCA	NSC	DL	LC05	82- 6
45	74L51N	TTL	DM54L51J	NSC	DL	LC05	83- 18	155	74L54N	TTL	JANM38510/30402BCE	NSC	DL	LC05	82- 7
46	74L51N	TTL	DM74L51N	NSC	DL	LC05	83- 21	156	74L54N	TTL	JANM38510/30402BCC	NSC	DL	LC05	82- 8
47	74L51N	TTL	JANM38510/30401BCA	NSC	DL	LC05	81- 81	157	74L54N	TTL	JANM38510/30402CCA	NSC	DL	LC05	82- 15
48	74L51N	TTL	JANM38510/30401BCB	Δ	DL	LC05	81- 82	158	74L54N	TTL	JANM38510/30402CCB	NSC	DL	LC05	82- 16
49	74L51N	TTL	JANM38510/30401BCC	NSC	DL	LC05	81- 83	159	74L54N	TTL	JANM38510/30402CCC	NSC	DL	LC05	82- 17
50	74L51N	TTL	JANM38510/30401CCA	NSC	DL	LC05	81- 90	160	74L54N	TTL	MB74L554	FCAJ	DL	LC05	86- 10
51	74L51N	TTL	JANM38510/30401CCB	NSC	DL	LC05	81- 91	161	74L54N	TTL	MB74L554M	FCAJ	DL	LC05	86- 11
52	74L51N	TTL	JANM38510/30401CCC	NSC	DL	LC05	81- 92	162	74L54N	TTL	N74L554D	SIC	DL	LC05	86- 26
53	74L51N	TTL	MB74L551	FCAJ	DL	LC05	86- 8	163	74L54N	TTL	N74L554N	Δ	DL	LC05	86- 27
54	74L51N	TTL	MB74L551M	FCAJ	DL	LC05	86- 9	164	74L54N	TTL	SFC454LE	THEF	DL	LC05	83- 32
55	74L51N	TTL	M74L551P	MITJ	DL	LC05	83-110	165	74L54N	TTL	SFC454LEM	THEF	DL	LC05	83- 33
56	74L51N	TTL	N74L551D	SIC	DL	LC05	86- 24	166	74L54N	TTL	SN54L554J	Δ	DL	LC05	83- 42
57	74L51N	TTL	N74L551N	Δ	DL	LC05	86- 25	167	74L54N	TTL	SN54L54J	TII	DL	LC05	83- 36
58	74L51N	TTL	SN54L551J	Δ	DL	LC05	83- 40	168	74L54N	TTL	SN74L554J	Δ	DL	LC05	86- 96
59	74L51N	TTL	SN54L51J	TII	DL	LC05	83- 34	169	74L54N	TTL	SN74L554N	Δ	DL	LC05	86- 96
60	74L51N	TTL	SN74L551J	Δ	DL	LC05	86- 93	170	74L54N	TTL	S54L554F	Δ	DL	LC05	83- 26
61	74L51N	TTL	SN74L551N	Δ	DL	LC05	86- 94	171	74L54N	TTL	T54L554D2	SGAI	DL	LC05	83- 47
62	74L51N	TTL	S54L551F	Δ	DL	LC05	83- 24	172	74L54N	TTL	T74L554B1	SGAI	DL	LC05	87- 21
63	74L51N	TTL	T54L551D2	SGAI	DL	LC05	83- 46	173	74L54N	TTL	T74L554D1	SGAI	DL	LC05	87- 22
64	74L51N	TTL	T74L551B1	SGAI	DL	LC05	87- 19	174	74L54N	TTL	54L554DM	FSC	DL	LC05	83- 15
65	74L51N	TTL	T74L551D1	SGAI	DL	LC05	87- 20	175	74L54N	TTL	54L554FM	FSC	FL	LC05	83- 16
66	74L51N	TTL	54L551DM	FSC	DL	LC05	83- 13	176	74L54N	TTL	74L554DC	FSC	DL	LC05	83- 75
67	74L51N	TTL	54L551FM	FSC	FL	LC05	83- 14	177	74L54N	TTL	74L554PC	FSC	DL	LC05	83- 76
68	74H52N	TTL	N74H52F	Δ	DL	LC05	113- 97	178	74H55N	TTL	JANM38510/04005BCA	none	DL	LC05	85- 51
69	74H52N	TTL	N74H52N	Δ	DL	LC05	113- 98	179	74H55N	TTL	JANM38510/04005BCE	MOTA	DL	LC05	85- 52
70	74H52N	TTL	SN54H52J	TII	DL	LC05	82- 51	180	74H55N	TTL	JANM38510/04005BCB	none	DL	LC05	86- 2
71	74H52N	TTL	SN74H52J	TII	DL	LC05	82- 53	181	74H55N	TTL	JANM38510/04005CCB	none	DL	LC05	86- 3
72	74H52N	TTL	SN74H52N	TII	DL	LC05	82- 54	182	74H55N	TTL	N74H55F	Δ	DL	LC05	86- 23
73	74H52N	TTL	S54H52F	Δ	DL	LC05	114- 6	183	74H55N	TTL	N74H55N	Δ	DL	LC05	113-101
74	74H52N	TTL	54H52DM	FSC	DL	LC05	82- 21	184	74H55N	TTL	SN54H55J	TII	DL	LC05	86- 75
75	74H52N	TTL	74H52PC	FSC	DL	LC05	82- 23	185	74H55N	TTL	SN74H55J	TII	DL	LC05	86- 91
76	74-53	TTL	S5453F	Δ	DL	LC05	114- 19	186	74H55N	TTL	SN74H55N	TII	DL	LC05	86- 92
77	74-53N	TTL	DM5453J	NSC	DL	LC05	83-102	187	74H55N	TTL	S54H55F	Δ	DL	LC05	114- 10
78	74-53N	TTL	DM5454J	NSC	DL	LC05	83-104	188	74H55N	TTL	74H55PC	FSC	DL	LC05	83- 72
79	74-53N	TTL	DM7453N	NSC	DL	LC05	83-108	189	74L55N	TTL	DM54L55J	NSC	DL	LC05	83- 20
80	74-53N	TTL	DM7454N	NSC	DL	LC05	83-109	190	74L55N	TTL	DM74L55N	NSC	DL	LC05	83- 23
81	74-53N	TTL	FJH171-7453	PHIN	DL	LC05	82- 26	191	74L55N	TTL	MB74L555	FCAJ	DL	LC05	86- 12
82	74-53N	TTL	FJH181-7454	PHIN	DL	LC05	82- 27	192	74L55N	TTL	MB74L555M	FCAJ	DL	LC05	86- 13
83	74-53N	TTL	JANM38510/00503BCA	NSC	DL	LC05	84- 32	193	74L55N	TTL	N74L555F	Δ	DL	LC05	86- 28
84	74-53N	TTL	JANM38510/00503BCB	Δ	DL	LC05	84- 33	194	74L55N	TTL	N74L555N	Δ	DL	LC05	86- 29
85	74-53N	TTL	JANM38510/00503CCA	NSC	DL	LC05	84- 39	195	74L55N	TTL	SN54L555J	Δ	DL	LC05	83- 44
86	74-5														

FUNCTIONAL EQUIVALENCE MASTER INDEX

IN ORDER OF: (1)FUNCTIONAL NO. (2) TECH
(3)TYPE NUMBER

LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	
1	74-60N	TTL	SN74H60N	TII	DL	LC05	114-34	111	74L71N	TTL	JANM38510/02102CCA	NSC	DL	LC04	40-40	
2	74-60N	TTL	SN7460J	TII	DL	LC05	114-41	112	74L71N	TTL	JANM38510/02102CCB	NSC	DL	LC04	40-41	
3	74-60N	TTL	SN7460N	TII	DL	LC05	114-42	113	74L71N	TTL	JANM38510/02201BCA	none	DL	LC04	44-14	
4	74-60N	TTL	S54H60F	Δ	DL	LC05	114-11	114	74L71N	TTL	JANM38510/02201BCB	MOTA	DL	LC04	44-15	
5	74-60N	TTL	S5460F	Δ	DL	LC05	114-21	115	74L71N	TTL	JANM38510/02201CCA	none	DL	LC04	44-20	
6	74-60N	TTL	S8806A	Δ	DL	LC05	113-63	116	74L71N	TTL	JANM38510/02201CCB	none	DL	LC04	44-21	
7	74-60N	TTL	S8806F	Δ	DL	LC05	113-64	117	74L71N	TTL	MB407	FCAJ	DL	LC04	45-34	
8	74-60N	TTL	5460DM	FSC	DL	LC05	113-81	118	74L71N	TTL	MB407M	FCAJ	DL	LC04	45-35	
9	74-60N	TTL	7460DC	FSC	DL	LC05	113-83	119	74L71N	TTL	MB609	FCAJ	DL	LC04	45-38	
10	74-60N	TTL	7460PC	FSC	DL	LC05	113-84	120	74L71N	TTL	M5327P	MITJ	DL	LC04	49-67	
11	74-60N	TTL	9006DC	FSC	DL	LC05	113-70	121	74L71N	TTL	N74H102F	Δ	DL	LC04	45-50	
12	74-60N	TTL	9006DM	FSC	DL	LC05	113-68	122	74L71N	TTL	N74H102N	Δ	DL	LC04	45-51	
13	74H61	TTL	SN54H61J	TII	DL	LC05	114-29	123	74L71N	TTL	N74H72F	Δ	DL	LC04	45-42	
14	74H61N	TTL	N74H61F	Δ	DL	LC05	113-104	124	74L71N	TTL	N74H72N	Δ	DL	LC04	45-43	
15	74H61N	TTL	N74H61N	Δ	DL	LC05	113-105	125	74L71N	TTL	N7472F	Δ	DL	LC04	45-82	
16	74H61N	TTL	SN74H61J	TII	DL	LC05	114-35	126	74L71N	TTL	N7472N	Δ	DL	LC04	45-83	
17	74H61N	TTL	SN74H61N	TII	DL	LC05	114-36	127	74L71N	TTL	N8829A	Δ	DL	LC04	47-76	
18	74H61N	TTL	S54H61F	Δ	DL	LC05	114-13	128	74L71N	TTL	N8829F	Δ	DL	LC04	47-77	
19	74H61N	TTL	54H61DM	FSC	DL	LC05	113-74	129	74L71N	TTL	SFC472E	THEF	DL	LC04	49-68	
20	74H61N	TTL	74H61DC	FSC	DL	LC05	113-77	130	74L71N	TTL	SFC472EM	THEF	DL	LC04	49-69	
21	74H61N	TTL	74H61PC	FSC	DL	LC05	113-78	131	74L71N	TTL	SFC472ET	THEF	DL	LC04	49-70	
22	74H62N	TTL	DM54H62J	NSC	DL	LC05	113-85	132	74L71N	TTL	SFC472LE	THEF	DL	LC04	42-19	
23	74H62N	TTL	DM74H62N	NSC	DL	LC05	113-86	133	74L71N	TTL	SFC472LEM	THEF	DL	LC04	42-20	
24	74H62N	TTL	N74H62F	Δ	DL	LC05	113-106	134	74L71N	TTL	SN54H102J	TII	DL	LC04	46-51	
25	74H62N	TTL	N74H62N	Δ	DL	LC05	113-107	135	74L71N	TTL	SN54H72J	TII	DL	LC04	46-41	
26	74H62N	TTL	SN54H62J	TII	DL	LC05	114-31	136	74L71N	TTL	SN54L72J	TII	DL	LC04	49-48	
27	74H62N	TTL	SN74H62J	TII	DL	LC05	114-37	137	74L71N	TTL	SN54110J	TII	DL	LC04	47-8	
28	74H62N	TTL	SN74H62N	TII	DL	LC05	114-38	138	74L71N	TTL	SN5472J	TII	DL	LC04	49-74	
29	74H62N	TTL	S54H62F	Δ	DL	LC05	114-15	139	74L71N	TTL	SN74H102J	TII	DL	LC04	46-77	
30	74H62N	TTL	74H62PC	Δ	FSC	DL	LC05	113-79	140	74L71N	TTL	SN74H102N	TII	DL	LC04	46-78
31	74S64	TTL	N74F64F	Δ	DL	LC05	82-63	141	74L71N	TTL	SN74H72J	TII	DL	LC04	46-67	
32	74S64	TTL	N74F64N	Δ	DL	LC05	82-64	142	74L71N	TTL	SN74H72N	TII	DL	LC04	46-68	
33	74S64	TTL	S54F64F	Δ	DL	LC05	82-65	143	74L71N	TTL	SN74110J	TII	DL	LC04	47-18	
34	74S64N	TTL	DM74S64N	NSC	DL	LC05	83-96	144	74L71N	TTL	SN74110N	TII	DL	LC04	47-19	
35	74S64N	TTL	JANM38510/07402BCA	none	DL	LC05	82-36	145	74L71N	TTL	SN7472J	TII	DL	LC04	49-78	
36	74S64N	TTL	JANM38510/07402CCB	SIC	DL	LC05	82-37	146	74L71N	TTL	SN7472N	TII	DL	LC04	49-79	
37	74S64N	TTL	JANM38510/07402CCA	none	DL	LC05	82-40	147	74L71N	TTL	S54H102F	Δ	DL	LC04	46-5	
38	74S64N	TTL	JANM38510/07402CCB	none	DL	LC05	82-41	148	74L71N	TTL	S54H72F	Δ	DL	LC04	45-95	
39	74S64N	TTL	N74S64F	Δ	DL	LC05	82-45	149	74L71N	TTL	S5472F	Δ	DL	LC04	46-21	
40	74S64N	TTL	N74S64N	Δ	DL	LC05	82-46	150	74L71N	TTL	S8829A	Δ	DL	LC04	47-99	
41	74S64N	TTL	SN54S64J	TII	DL	LC05	86-79	151	74L71N	TTL	S8829F	Δ	DL	LC04	47-100	
42	74S64N	TTL	SN74S64J	TII	DL	LC05	86-101	152	74L71N	TTL	54H72DM	FSC	DL	LC04	42-47	
43	74S64N	TTL	SN74S64N	TII	DL	LC05	86-102	153	74L71N	TTL	5472DM	FSC	DL	LC04	49-55	
44	74S64N	TTL	54F64DM	FSC	DL	LC05	83-49	154	74L71N	TTL	74H72DC	FSC	DL	LC04	42-69	
45	74S64N	TTL	54S64DM	FSC	DL	LC05	83-59	155	74L71N	TTL	74H72PC	FSC	DL	LC04	42-70	
46	74S64N	TTL	74F64DC	FSC	DL	LC05	83-61	156	74L71N	TTL	7472DC	FSC	DL	LC04	49-58	
47	74S64N	TTL	74F64PC	FSC	DL	LC05	83-62	157	74L71N	TTL	7472PC	FSC	DL	LC04	49-59	
48	74S64N	TTL	74S64DC	FSC	DL	LC05	83-78	158	74-73	CMS	MM74C73N	NSC	DL	LC04	35-8	
49	74S64N	TTL	74S64PC	FSC	DL	LC05	83-79	159	74-73	TTL	MB74LS73A	FCAJ	DL	LC04	45-16	
50	74S65N	TTL	DM74S65N	NSC	DL	LC05	83-97	160	74-73	TTL	MB74LS73AM	FCAJ	DL	LC04	45-17	
51	74S65N	TTL	N74S65F	Δ	DL	LC05	82-47	161	74-73	TTL	7473DC	FSC	DL	LC04	42-97	
52	74S65N	TTL	N74S65N	Δ	DL	LC05	82-48	162	74-73N	CMS	MM54C73D	NSC	DL	LC04	35-5	
53	74S65N	TTL	SN54S65J	TII	DL	LC05	86-81	163	74-73N	DTL	SFC473PM	THEF	ZB	LC04	37-33	
54	74S65N	TTL	SN74S65J	TII	DL	LC05	86-103	164	74-73N	DTL	SN158093J	TII	DL	LC04	37-76	
55	74S65N	TTL	SN74S65N	TII	DL	LC05	86-104	165	74-73N	DTL	SN158094J	TII	DL	LC04	37-79	
56	74S65N	TTL	S54S65F	Δ	DL	LC05	86-43	166	74-73N	DTL	SN158094N	TII	DL	LC04	37-80	
57	74S65N	TTL	74S65PC	Δ	FSC	DL	LC05	83-80	167	74-73N	DTL	SN159093J	TII	DL	LC04	37-91
58	74-70N	TTL	DM5470J	NSC	DL	LC04	49-60	168	74-73N	DTL	SN159093N	TII	DL	LC04	37-92	
59	74-70N	TTL	DM7470N	NSC	DL	LC04	49-64	169	74-73N	DTL	SN159094N	TII	DL	LC04	37-96	
60	74-70N	TTL	JANM38510/00206BCA	none	DL	LC04	44-4	170	74-73N	TTL	DM54L73J	NSC	DL	LC04	40-69	
61	74-70N	TTL	JANM38510/00206BCB	Δ	DL	LC04	44-5	171	74-73N	TTL	DM5473J	NSC	DL	LC04	42-108	
62	74-70N	TTL	JANM38510/00206CCA	Δ	DL	LC04	44-9	172	74-73N	TTL	DM74L73J	NSC	DL	LC04	40-72	
63	74-70N	TTL	JANM38510/00206CCB	none	DL	LC04	44-10	173	74-73N	TTL	DM74L73N	NSC	DL	LC04	40-73	
64	74-70N	TTL	M53270P	MITJ	DL	LC04	49-66	174	74-73N	TTL	DM7473N	NSC	DL	LC04	43-4	
65	74-70N	TTL	N7470F	Δ	DL	LC04	45-80	175	74-73N	TTL	FJJ121-7473	PHIN	DL	LC04	43-10	
66	74-70N	TTL	N7470N	Δ	DL	LC04	45-81	176	74-73N	TTL	FJJ131-7474	PHIN	DL	LC04	51-69	
67	74-70N	TTL	N8825A	Δ	DL	LC04	47-67	177	74-73N	TTL	JANM38510/00202BCA	NSC	DL	LC04	43-51	
68	74-70N	TTL	N8825F	Δ	DL	LC04	47-68	178	74-73N	TTL	JANM38510/00202BCB	Δ	DL	LC04	43-52	
69	74-70N	TTL	SN5470J	TII	DL	LC04	49-72	179	74-73N	TTL	JANM38510/00202CCA	NSC	DL	LC04	43-58	
70	74-70N	TTL	SN7470J	TII	DL	LC04	49-76	180	74-73N	TTL	JANM38510/00202CCB	NSC	DL	LC04	43-59	
71	74-70N	TTL	SN7470N	TII	DL	LC04	49-77	181	74-73N	TTL	JANM38510/02103BCA	NSC	DL	LC04	40-46	
72	74-70N	TTL	S5470F	Δ	DL	LC04	46-19	182	74-73N	TTL	JANM38510/02103BCB	NSC	DL	LC04	40-47	
73	74-70N	TTL	S8825A	Δ	DL	LC04	47-90	183	74-73N	TTL	JANM38510/02103BDA	NSC	DL	LC04	40-48	
74	74-70N	TTL	S8825F	Δ	DL	LC04	47-91	184	74-73N	TTL	JANM38510/02103BDB	NSC	DL	LC04	40-49	
75	74-70N	TTL	7470PC	Δ	FSC	DL	LC04	49-57	185	74-73N	TTL	JANM38510/02103CCA	NSC	DL	LC04	40-52
76	74H71	TTL	SN74H101J	TII	DL	LC04	46-75	186	74-73N	TTL	JANM38510/02103CCB	NSC	DL	LC04	40-53	
77	74H71N	TTL	JANM38510/02205BCA	none	DL	LC04	44-46	187	74-73N	TTL	JANM38510/02202BCA	none	DL	LC04	44-26	
78	74H71N	TTL	JANM38510/02205BCB	MOTA	DL	LC04	44-47	188	74-73N	TTL	JANM38510/02202CCB	MOTA	DL	LC04	44-27	
79	74H71N	TTL	JANM38510/02205CCA	SIC	DL	LC04	44-52	189	74-73N	TTL	JANM38510/02202CCA	none	DL	LC04	44-32	
80	74H71N	TTL	JANM38510/02205CCB	SIC	DL	LC04	44-53	190	74-73N	TTL	JANM38510/02202CCB	none	DL	LC04	44-33	
81	74H71N	TTL	N74H101F	Δ	DL	LC04	45-48	191	74-73N	TTL	JANM38510/30101BCA	none	DL	LC04	41-8	
82	74H71N	TTL	N74H101N	Δ	DL	LC04	45-49	192	74-73N	TTL	JANM38510/30101BCB	TII	DL	LC04	41-9	
83	74H71N	TTL	N74H71F	Δ	DL	LC04	45-40	193	74-73N	TTL	JANM38510/30101CCA	none	DL	LC04	41-11	
84	74H71N	TTL	N74H71N	Δ	DL	LC04	45-41	194	74-73N	TTL	JANM38510/30101CCB	none	DL	LC04	41-12	
85	74H71N	TTL	SN54H101J	TII	DL	LC04	46-49	195	74-73N	TTL	M53273P	MITJ	DL	LC04	45-13	
86	74H71N	TTL	SN54H71J	TII	DL	LC04	46-39	196	74-73N	TTL	M74LS7					

FUNCTIONAL EQUIVALENCE MASTER INDEX

IN ORDER OF: (1)FUNCTIONAL NO. (2) TECH
(3)TYPE NUMBER

LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE
1	74-73N	TTL	54H73DM	FSC	DL	LC04	42-49	111	74-75N	TTL	JANM38510/01501BEB	Δ	DL	LC26	177-95
2	74-73N	TTL	5473DM	FSC	DL	LC04	42-93	112	74-75N	TTL	JANM38510/01501CEA	none	DL	LC26	178-3
3	74-73N	TTL	74H73DC	FSC	DL	LC04	42-71	113	74-75N	TTL	JANM38510/01501CEB	none	DL	LC26	178-4
4	74-73N	TTL	74H73PC	FSC	DL	LC04	42-72	114	74-75N	TTL	M53275P	MITJ	DL	LC26	177-67
5	74-73N	TTL	7473PC	FSC	DL	LC04	42-98	115	74-75N	TTL	M74LS75P	MITJ	DL	LC26	177-44
6	74-74	OMS	MM54C74D	NSC	DL	LC04	36-71	116	74-75N	TTL	N74LS75F	Δ	DL	LC26	177-50
7	74-74	TTL	DM74S74N	NSC	DL	LC04	51-59	117	74-75N	TTL	N74LS75N	Δ	DL	LC26	177-51
8	74-74	TTL	MB74LS74AM	FCAJ	DL	LC04	52-43	118	74-75N	TTL	N7475F	Δ	DL	LC26	177-68
9	74-74	TTL	M74LS74AP	MITJ	DL	LC04	43-30	119	74-75N	TTL	N7475N	Δ	DL	LC26	177-69
10	74-74	TTL	N7474F	VALG	DL	LC04	53-85	120	74-75N	TTL	SFC475E	THEF	DL	LC26	177-72
11	74-74	TTL	N7474N	Δ	DL	LC04	53-86	121	74-75N	TTL	SFC475EM	THEF	DL	LC26	177-73
12	74-74	TTL	N74LS74AF	Δ	DL	LC04	52-52	122	74-75N	TTL	SFC475ET	THEF	DL	LC26	177-74
13	74-74	TTL	N74754N	Δ	DL	LC04	52-54	123	74-75N	TTL	SFC475KM	THEF	DL	LC26	177-76
14	74-74	TTL	SN54ALS74J	TII	DL	LC04	53-1	124	74-75N	TTL	SN54LS75J	Δ	DL	LC26	177-59
15	74-74	TTL	SN54ALS74J#mil	MOTA	DL	LC04	54-66	125	74-75N	TTL	SN54L75J	TII	DL	LC26	178-7
16	74-74	TTL	SN54ALS74N	MOTA	DL	LC04	54-31	126	74-75N	TTL	SN5475J	TII	DL	LC26	177-77
17	74-74	TTL	SN54LS74AJ	Δ	DL	LC04	50-81	127	74-75N	TTL	SN74LS75J	Δ	DL	LC26	177-63
18	74-74N	OMS	MM74C74N	NSC	DL	LC04	36-72	128	74-75N	TTL	SN74LS75N	Δ	DL	LC26	177-64
19	74-74N	TTL	DM54H74J	NSC	DL	LC04	51-57	129	74-75N	TTL	SN7475J	TII	DL	LC26	177-80
20	74-74N	TTL	DM54L74J	NSC	DL	LC04	50-38	130	74-75N	TTL	SN7475N	TII	DL	LC26	177-81
21	74-74N	TTL	DM5474J	NSC	DL	LC04	51-60	131	74-75N	TTL	S54LS75F	Δ	DL	LC26	177-54
22	74-74N	TTL	DM74H74N	NSC	DL	LC04	51-58	132	74-75N	TTL	S5475F	Δ	DL	LC26	177-70
23	74-74N	TTL	DM74L74N	NSC	DL	LC04	50-39	133	74-75N	TTL	5475DM	FSC	DL	LC26	178-101
24	74-74N	TTL	DM7474N	NSC	DL	LC04	51-62	134	74-75N	TTL	7475DC	FSC	DL	LC26	179-3
25	74-74N	TTL	JANM38510/00205BCA	NSC	DL	LC04	51-83	135	74-75N	TTL	7475PC	FSC	DL	LC04	51-51
26	74-74N	TTL	JANM38510/00205BCB	Δ	DL	LC04	51-84	136	74LS76	CMS	MM74C76N	NSC	DL	LC04	35-9
27	74-74N	TTL	JANM38510/00205BCC	none	DL	LC04	51-85	137	74LS76	TTL	MB74LS76A	FCAJ	DL	LC04	45-18
28	74-74N	TTL	JANM38510/00205CCA	NSC	DL	LC04	51-91	138	74LS76	TTL	MB74LS76AM	FCAJ	DL	LC04	45-19
29	74-74N	TTL	JANM38510/00205CCB	NSC	DL	LC04	51-92	139	74LS76	TTL	SN7476J	TII	DL	LC04	47-3
30	74-74N	TTL	JANM38510/00207BCA	none	DL	LC04	54-80	140	74LS76N	CMS	MM54C76D	NSC	DL	LC04	35-6
31	74-74N	TTL	JANM38510/00207BCB	MOTA	DL	LC04	54-81	141	74LS76N	CMS	TC7476BP	TOSJ	DL	LC04	34-85
32	74-74N	TTL	JANM38510/00207CCA	none	DL	LC04	54-84	142	74LS76N	TTL	DM5476J	NSC	DL	LC04	43-2
33	74-74N	TTL	JANM38510/00207CCB	none	DL	LC04	54-85	143	74LS76N	TTL	DM7476N	NSC	DL	LC04	43-5
34	74-74N	TTL	JANM38510/02105BCA	NSC	DL	LC04	50-48	144	74LS76N	TTL	FJJ191-7476	PHIN	DL	LC04	43-11
35	74-74N	TTL	JANM38510/02105BCB	NSC	DL	LC04	50-49	145	74LS76N	TTL	JANM38510/00204BEA	none	DL	LC04	43-66
36	74-74N	TTL	JANM38510/02105CCA	NSC	DL	LC04	50-54	146	74LS76N	TTL	JANM38510/00204BEB	Δ	DL	LC04	43-67
37	74-74N	TTL	JANM38510/02105CCB	NSC	DL	LC04	50-55	147	74LS76N	TTL	JANM38510/00204CEA	none	DL	LC04	43-70
38	74-74N	TTL	JANM38510/02203BCA	none	DL	LC04	52-17	148	74LS76N	TTL	JANM38510/00204CEB	NSC	DL	LC04	43-71
39	74-74N	TTL	JANM38510/02203CCB	none	DL	LC04	52-18	149	74LS76N	TTL	JANM38510/02204BEA	none	DL	LC04	44-36
40	74-74N	TTL	JANM38510/02203CCA	none	DL	LC04	52-21	150	74LS76N	TTL	JANM38510/02204BEB	TII	DL	LC04	44-37
41	74-74N	TTL	JANM38510/02203CCB	none	DL	LC04	52-22	151	74LS76N	TTL	JANM38510/02204CEA	none	DL	LC04	44-40
42	74-74N	TTL	JANM38510/07101BCA	none	DL	LC04	52-34	152	74LS76N	TTL	JANM38510/02204CEB	none	DL	LC04	44-41
43	74-74N	TTL	JANM38510/07101CCB	FSC	DL	LC04	52-35	153	74LS76N	TTL	JANM38510/30110BEA	none	DL	LC04	41-52
44	74-74N	TTL	JANM38510/07101CCA	none	DL	LC04	52-38	154	74LS76N	TTL	JANM38510/30110BEB	TII	DL	LC04	41-53
45	74-74N	TTL	JANM38510/07101CCB	FSC	DL	LC04	52-39	155	74LS76N	TTL	JANM38510/30110CEA	none	DL	LC04	41-55
46	74-74N	TTL	JANM38510/30102BCA	none	DL	LC04	50-65	156	74LS76N	TTL	JANM38510/30110CEB	none	DL	LC04	42-1
47	74-74N	TTL	JANM38510/30102CCB	Δ	DL	LC04	50-66	157	74LS76N	TTL	M53276P	MITJ	DL	LC04	45-14
48	74-74N	TTL	JANM38510/30102CCA	none	DL	LC04	50-72	158	74LS76N	TTL	M74LS76AP	MITJ	DL	LC04	43-31
49	74-74N	TTL	JANM38510/30102CCB	FSC	DL	LC04	50-73	159	74LS76N	TTL	N74H106F	Δ	DL	LC04	45-54
50	74-74N	TTL	MB74LS74A	FCAJ	DL	LC04	52-42	160	74LS76N	TTL	N74H106N	Δ	DL	LC04	45-55
51	74-74N	TTL	MC3160L	MOTA	DL	LC04	54-42	161	74LS76N	TTL	N74H76F	Δ	DL	LC04	45-46
52	74-74N	TTL	M53274P	MITJ	DL	LC04	52-41	162	74LS76N	TTL	N74H76N	Δ	DL	LC04	45-47
53	74-74N	TTL	M74LS74P	MITJ	DL	LC04	54-35	163	74LS76N	TTL	N74LS76F	Δ	DL	LC04	45-60
54	74-74N	TTL	N74H74N	Δ	DL	LC04	52-51	164	74LS76N	TTL	N74LS76N	Δ	DL	LC04	45-61
55	74-74N	TTL	N74S74D	SIC	DL	LC04	54-39	165	74LS76N	TTL	N7476F	Δ	DL	LC04	45-86
56	74-74N	TTL	N7474F	Δ	DL	LC04	52-55	166	74LS76N	TTL	N7476N	Δ	DL	LC04	45-87
57	74-74N	TTL	N7474N	Δ	DL	LC04	52-56	167	74LS76N	TTL	SFC476E	THEF	DL	LC04	46-33
58	74-74N	TTL	N8824B	Δ	DL	LC04	47-66	168	74LS76N	TTL	SFC476EM	THEF	DL	LC04	46-34
59	74-74N	TTL	N8828A	Δ	DL	LC04	54-52	169	74LS76N	TTL	SFC476ET	THEF	DL	LC04	46-35
60	74-74N	TTL	N8828F	Δ	DL	LC04	54-53	170	74LS76N	TTL	SN54H106J	TII	DL	LC04	46-55
61	74-74N	TTL	SFC474E	THEF	DL	LC04	52-63	171	74LS76N	TTL	SN54H76J	TII	DL	LC04	46-45
62	74-74N	TTL	SFC474EM	THEF	DL	LC04	52-64	172	74LS76N	TTL	SN54LS76AJ	Δ	DL	LC04	42-25
63	74-74N	TTL	SFC474ET	THEF	DL	LC04	52-65	173	74LS76N	TTL	SN5476J	TII	DL	LC04	46-109
64	74-74N	TTL	SFC474EV	THEF	DL	LC04	52-66	174	74LS76N	TTL	SN74H106J	TII	DL	LC04	46-81
65	74-74N	TTL	SFC474HE	THEF	DL	LC04	52-67	175	74LS76N	TTL	SN74H106N	TII	DL	LC04	46-82
66	74-74N	TTL	SFC474HEM	THEF	DL	LC04	52-68	176	74LS76N	TTL	SN74H76J	TII	DL	LC04	46-71
67	74-74N	TTL	SFC474LE	THEF	DL	LC04	50-77	177	74LS76N	TTL	SN74H76N	TII	DL	LC04	46-72
68	74-74N	TTL	SFC474LEM	THEF	DL	LC04	50-78	178	74LS76N	TTL	SN74LS76AJ	Δ	DL	LC04	46-87
69	74-74N	TTL	SN54H74J	TII	DL	LC04	53-3	179	74LS76N	TTL	SN74LS76AN	Δ	DL	LC04	46-88
70	74-74N	TTL	SN54L74J	TII	DL	LC04	50-79	180	74LS76N	TTL	SN7476N	TII	MO	LC04	47-4
71	74-74N	TTL	SN74ALS74J	TII	DL	LC04	53-11	181	74LS76N	TTL	S54H106F	Δ	DL	LC04	46-9
72	74-74N	TTL	SN74ALS74J#	MOTA	DL	LC04	54-68	182	74LS76N	TTL	S54H76F	Δ	DL	LC04	46-1
73	74-74N	TTL	SN74ALS74N	TII	DL	LC04	53-12	183	74LS76N	TTL	S54LS76F	Δ	DL	LC04	42-5
74	74-74N	TTL	SN74ALS74N#	MOTA	DL	LC04	54-69	184	74LS76N	TTL	S5476F	Δ	DL	LC04	46-25
75	74-74N	TTL	SN74H74J	TII	DL	LC04	53-13	185	74LS76N	TTL	54H106DM	FSC	DL	LC04	42-57
76	74-74N	TTL	SN74H74N	TII	DL	LC04	53-14	186	74LS76N	TTL	54LS76DM	FSC	DL	LC04	40-56
77	74-74N	TTL	SN74LS74AJ	Δ	DL	LC04	51-4	187	74LS76N	TTL	5476DM	FSC	DL	LC04	42-95
78	74-74N	TTL	SN74LS74AN	Δ	MO	LC04	51-5	188	74LS76N	TTL	74H106DC	FSC	DL	LC04	42-76
79	74-74N	TTL	SN74S74J	TII	DL	LC04	53-17	189	74LS76N	TTL	74H106PC	FSC	DL	LC04	42-77
80	74-74N	TTL	SN74S74N	TII	DL	LC04	53-18	190	74LS76N	TTL	74LS76DC	FSC	DL	LC04	42-80
81	74-74N	TTL	SN7474J	TII	DL	LC04	53-24	191	74LS76N	TTL	74LS76PC	FSC	DL	LC04	42-81
82	74-74N	TTL	SN7474N	TII	DL	LC04	53-25	192	74LS76N	TTL	7476DC	FSC	DL	LC04	42-99
83	74-74N	TTL	S54H74F	Δ	DL	LC04	52-57	193	74LS76N	TTL	7476PC	FSC	DL	LC04	42-100
84	74-74N	TTL	S54LS74AF	SIC	DL	LC04	53-35	194	74LS77N	TTL	MB430	FCAJ	DL	LC26	174-2
85	74-74N	TTL	S54LS74F	Δ	DL	LC04	50-75	195	74LS77N	TTL	MB430M	FCAJ	DL	LC26	174-3
86	74-74N	TTL	S54S74F	Δ	DL	LC04	52-59	196	74LS77N	TTL	JANM38510/01502BCA	none			

FUNCTIONAL EQUIVALENCE MASTER INDEX

IN ORDER OF: (1)FUNCTIONAL NO. (2) TECH
(3)TYPE NUMBER

LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY	USE CODE	PAGE & LINE	LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY	USE CODE	PAGE & LINE	
1	74L78N	TTL	JANM38510/02104BCA	NSC	DL	LC04	40- 78	111	74-85N	TTL	SN7485N	TII	DL	LC17	166- 38	
2	74L78N	TTL	JANM38510/02104BCB	NSC	DL	LC04	40- 79	112	74-85N	TTL	S54LS85F	Δ	DL	LC17	166- 65	
3	74L78N	TTL	JANM38510/02104CCA	NSC	DL	LC04	41- 4	113	74-85N	TTL	S54S85F	Δ	DL	LC17	166- 7	
4	74L78N	TTL	JANM38510/02104CCB	NSC	DL	LC04	41- 5	114	74-85N	TTL	S5485F	Δ	DL	LC17	166- 28	
5	74L78N	TTL	N74LS78F	Δ	DL	LC04	45- 62	115	74-85N	TTL	54LS85DM	Δ	FSC	DL	LC17	166- 39
6	74L78N	TTL	N74LS78N	Δ	DL	LC04	45- 63	116	74-85N	TTL	5485DM	Δ	FSC	DL	LC17	166- 22
7	74L78N	TTL	SN54LS78AJ	Δ	DL	LC04	42- 27	117	74-85N	TTL	74LS85DC	FSC	DL	LC17	166- 41	
8	74L78N	TTL	SN54L78J	TII	DL	LC04	49- 52	118	74-85N	TTL	74LS85PC	FSC	DL	LC17	166- 42	
9	74L78N	TTL	SN74LS78AJ	Δ	DL	LC04	46- 89	119	74L85	CMS	M4585BP	MITJ	DL	LC17	165- 59	
10	74L78N	TTL	SN74LS78AN	Δ	DL	LC04	46- 90	120	74L85N	CMS	MM74C85N	NSC	DL	LC17	165- 22	
11	74L78N	TTL	54LS78DM	FSC	DL	LC04	40- 58	121	74L85N	TTL	DM54L85J	NSC	DL	LC17	166- 76	
12	74-80N	TTL	JANM38510/00604BCA	none	DL	LC15	160- 80	122	74L85N	TTL	MB448	FCAJ	DL	LC17	166- 1	
13	74-80N	TTL	JANM38510/00604BCB	MOTA	DL	LC15	160- 81	123	74L85N	TTL	MB448M	FCAJ	DL	LC17	166- 2	
14	74-80N	TTL	JANM38510/00604CCB	none	DL	LC15	160- 84	124	74L85N	TTL	SN54L85J	TII	DL	LC17	166- 83	
15	74-80N	TTL	JANM38510/00604CCA	none	DL	LC15	160- 85	125	74L85N	TTL	DM74L85N	NSC	DL	LC17	166- 78	
16	74-80N	TTL	MB408	FCAJ	DL	LC15	160- 41	126	74-86	TTL	DM74S86N	NSC	DL	LC05	111- 76	
17	74-80N	TTL	MB408M	FCAJ	DL	LC15	160- 42	127	74-86	TTL	N74F86F	Δ	DL	LC05	112- 41	
18	74-80N	TTL	N7480F	Δ	DL	LC15	160- 68	128	74-86	TTL	N74F86N	Δ	DL	LC05	112- 42	
19	74-80N	TTL	N7480N	Δ	DL	LC15	160- 69	129	74-86	TTL	S54F86F	Δ	DL	LC05	112- 53	
20	74-80N	TTL	N8268F	Δ	DL	LC15	160- 65	130	74-86N	CMS	TC4030BP	TOSJ	DL	LC05	65- 78	
21	74-80N	TTL	SN5480J	TII	DL	LC15	160- 72	131	74-86N	DTL	MC1912L	MOTA	DL	LC05	70- 64	
22	74-80N	TTL	SN7480J	TII	DL	LC15	160- 74	132	74-86N	TTL	DM5486J	NSC	DL	LC05	111- 77	
23	74-80N	TTL	SN7480N	TII	DL	LC15	160- 75	133	74-86N	TTL	DM7486N	NSC	DL	LC05	111- 79	
24	74-80N	TTL	S5480F	Δ	DL	LC15	160- 70	134	74-86N	TTL	JANM38510/00701BCA	NSC	DL	LC05	112- 9	
25	74-82N	TTL	JANM38510/00601BCA	none	DL	LC15	161- 1	135	74-86N	TTL	JANM38510/00701BCB	Δ	DL	LC05	112- 10	
26	74-82N	TTL	JANM38510/00601BCB	MOTA	DL	LC15	161- 2	136	74-86N	TTL	JANM38510/00701CCA	NSC	DL	LC05	112- 16	
27	74-82N	TTL	JANM38510/00601CCA	none	DL	LC15	161- 5	137	74-86N	TTL	JANM38510/00701CCB	NSC	DL	LC05	112- 17	
28	74-82N	TTL	JANM38510/00601CCB	none	DL	LC15	161- 6	138	74-86N	TTL	JANM38510/07501BCA	none	DL	LC05	112- 20	
29	74-82N	TTL	SN5482J	TII	DL	LC15	160- 90	139	74-86N	TTL	JANM38510/07501BCB	SIC	DL	LC05	112- 21	
30	74-82N	TTL	SN7482J	TII	DL	LC15	160- 92	140	74-86N	TTL	JANM38510/07501CCA	none	DL	LC05	112- 24	
31	74-82N	TTL	SN7482N	TII	DL	LC15	160- 93	141	74-86N	TTL	JANM38510/07501CCB	none	DL	LC05	112- 25	
32	74-83	CMS	MM54C83D	NSC	DL	LC15	159- 63	142	74-86N	TTL	JANM38510/30502BCA	NSC	DL	LC05	111- 31	
33	74-83	CMS	MM74C83N	NSC	DL	LC15	159- 64	143	74-86N	TTL	JANM38510/30502BCB	Δ	DL	LC05	111- 32	
34	74-83	TTL	DM5483J	NSC	DL	LC15	162- 19	144	74-86N	TTL	JANM38510/30502BCC	NSC	DL	LC05	111- 33	
35	74-83	TTL	DM7483N	NSC	DL	LC15	162- 21	145	74-86N	TTL	JANM38510/30502CCA	NSC	DL	LC05	111- 40	
36	74-83	TTL	JANM38510/00602BEA	none	DL	LC15	162- 31	146	74-86N	TTL	JANM38510/30502CCB	NSC	DL	LC05	111- 41	
37	74-83	TTL	JANM38510/00602BEB	Δ	DL	LC15	162- 32	147	74-86N	TTL	JANM38510/30502CCC	NSC	DL	LC05	111- 42	
38	74-83	TTL	JANM38510/00602CEA	none	DL	LC15	162- 35	148	74-86N	TTL	MB449	FCAJ	DL	LC05	112- 35	
39	74-83	TTL	JANM38510/00602CEB	NSC	DL	LC15	162- 36	149	74-86N	TTL	MB449M	FCAJ	DL	LC05	112- 36	
40	74-83	TTL	JANM38510/31201BEA	none	DL	LC15	161- 86	150	74-86N	TTL	MB74LS86	FCAJ	DL	LC05	112- 29	
41	74-83	TTL	JANM38510/31201BEB	FSC	DL	LC15	161- 87	151	74-86N	TTL	MB74LS86M	FCAJ	DL	LC05	112- 30	
42	74-83	TTL	JANM38510/31201CEA	none	DL	LC15	162- 2	152	74-86N	TTL	MC3121L	MOTA	DL	LC05	113- 7	
43	74-83	TTL	JANM38510/31201CEB	FSC	DL	LC15	162- 3	153	74-86N	TTL	M53286F	MITJ	DL	LC05	112- 28	
44	74-83	TTL	MB74LS83A	FCAJ	DL	LC15	161- 42	154	74-86N	TTL	M74LS86P	Δ	DL	LC05	112- 2	
45	74-83	TTL	MB74LS83AM	FCAJ	DL	LC15	161- 43	155	74-86N	TTL	N74LS86F	Δ	DL	LC05	112- 43	
46	74-83	TTL	M74LS83AP	MITJ	DL	LC15	161- 26	156	74-86N	TTL	N74LS86N	Δ	DL	LC05	112- 44	
47	74-83	TTL	N74LS83AF	Δ	DL	LC15	161- 46	157	74-86N	TTL	N74S86D	Δ	SIC	DL	LC05	112- 49
48	74-83	TTL	N74LS83AN	Δ	DL	LC15	161- 47	158	74-86N	TTL	N74S86N	Δ	DL	LC05	112- 50	
49	74-83	TTL	N74LS83F	Δ	DL	LC15	161- 48	159	74-86N	TTL	N7486F	Δ	DL	LC05	112- 51	
50	74-83	TTL	N7483F	Δ	DL	LC15	162- 22	160	74-86N	TTL	N7486E	Δ	DL	LC05	112- 52	
51	74-83	TTL	N7483N	Δ	DL	LC15	162- 23	161	74-86N	TTL	SFC486E	THEF	DL	LC05	112- 64	
52	74-83	TTL	SFC483ALSE	THEF	DL	LC15	162- 24	162	74-86N	TTL	SFC486EM	THEF	DL	LC05	112- 65	
53	74-83	TTL	SFC483ALSEM	THEF	DL	LC15	162- 25	163	74-86N	TTL	SFC486ET	THEF	DL	LC05	112- 66	
54	74-83	TTL	SFC483E	THEF	DL	LC15	162- 26	164	74-86N	TTL	SN54LS86J	DL	LC05	111- 55		
55	74-83	TTL	SFC483EM	THEF	DL	LC15	162- 27	165	74-86N	TTL	SN54S86J	TII	DL	LC05	112- 68	
56	74-83	TTL	SFC483ET	THEF	DL	LC15	162- 28	166	74-86N	TTL	SN5486J	TII	DL	LC05	112- 78	
57	74-83	TTL	SFC483JM	THEF	DL	LC15	162- 29	167	74-86N	TTL	SN74LS86J	Δ	DL	LC05	112- 70	
58	74-83	TTL	SFC483KM	THEF	DL	LC15	162- 30	168	74-86N	TTL	SN74LS86N	Δ	DL	LC05	112- 71	
59	74-83	TTL	SN54LS83AJ	Δ	DL	LC15	161- 58	169	74-86N	TTL	SN74S86J	Δ	TII	DL	LC05	112- 76
60	74-83	TTL	SN5483AJ	TII	DL	LC15	161- 66	170	74-86N	TTL	SN74S86N	Δ	TII	DL	LC05	112- 77
61	74-83	TTL	SN74LS83AJ	Δ	DL	LC15	161- 62	171	74-86N	TTL	SN7486J	TII	DL	LC05	112- 80	
62	74-83	TTL	SN74LS83AN	Δ	DL	LC15	161- 63	172	74-86N	TTL	SN7486N	TII	DL	LC05	112- 81	
63	74-83	TTL	SN7483AJ	TII	DL	LC15	161- 68	173	74-86N	TTL	S54LS86F	Δ	DL	LC05	111- 46	
64	74-83	TTL	SN7483AN	TII	DL	LC15	161- 69	174	74-86N	TTL	S54S86F	Δ	DL	LC05	112- 55	
65	74-83	TTL	S54LS83AF	Δ	DL	LC15	161- 50	175	74-86N	TTL	S5486F	Δ	DL	LC05	88- 25	
66	74-83	TTL	T74LS83B1	SGAI	DL	LC15	161- 76	176	74-86N	TTL	T54LS86D2	Δ	DL	LC05	111- 61	
67	74-83	TTL	T74LS83D1	SGAI	DL	LC15	161- 77	177	74-86N	TTL	T74LS86B1	SGAI	DL	LC05	112- 86	
68	74-83	TTL	54LS83ADM	FSC	DL	LC15	161- 34	178	74-86N	TTL	T74LS86D1	SGAI	DL	LC05	112- 87	
69	74-83	TTL	5483ADM	FSC	DL	LC15	161- 22	179	74-86N	TTL	ZN5486E	FERR	DL	LC05	113- 2	
70	74-83	TTL	74LS83ADC	FSC	DL	LC15	161- 37	180	74-86N	TTL	ZN5486J	FERR	DL	LC05	113- 3	
71	74-83	TTL	74LS83APC	FSC	DL	LC15	161- 33	181	74-86N	TTL	ZN7486E	FERR	DL	LC05	113- 4	
72	74-83	TTL	7483ADC	FSC	DL	LC15	161- 24	182	74-86N	TTL	ZN7486J	FERR	DL	LC05	113- 5	
73	74-83	TTL	7483APC	FSC	DL	LC15	161- 25	183	74-86N	TTL	54S86DM	FSC	DL	LC05	111- 63	
74	74-85	CMS	M4063BP	MITJ	DL	LC17	165- 57	184	74-86N	TTL	5486DM	FSC	DL	LC05	111- 71	
75	74-85	TTL	SN74LS85J	Δ	DL	LC17	166- 46	185	74-86N	TTL	74LS86DC	FSC	DL	LC05	111- 65	
76	74-85N	TTL	DM7485N	NSC	DL	LC17	166- 24	186	74-86N	TTL	74LS86PC	FSC	DL	LC05	111- 66	
77	74-85N	TTL	JANM38510/08201BEA	none	DL	LC17	166- 18	187	74-86N	TTL	74S86DC	FSC	DL	LC05	111- 69	
78	74-85N	TTL	JANM38510/08201BEB	SIC	DL	LC17	166- 19	188	74-86N	TTL	74S86PC	FSC	DL	LC05	111- 70	
79	74-85N	TTL	JANM38510/08201CEA	none	DL	LC17	166- 20	189	74-86N	TTL	7486DC	FSC	DL	LC05	111- 73	
80	74-85N	TTL	JANM38510/08201CEB	none	DL	LC17	166- 21	190	74-86N	TTL	7486PC	FSC	DL	LC05	111- 74	
81	74-85N	TTL	JANM38510/15001BEA	SIC	DL	LC17	166- 67	191	74L86	CMS	MB84070B	FCAJ	DL	LC05	65- 40	
82	74-85N	TTL	JANM38510/15001BEB	Δ	DL	LC17	166- 68	192	74L86	CMS	MB84070BM	FCAJ	DL	LC05	65- 41	
83	74-85N	TTL	JANM38510/15001CEA	none	DL	LC17	166- 71	193	74L86	CMS	883/4030B	SSS	MO	LC05	65-	

FUNCTIONAL EQUIVALENCE MASTER INDEX

IN ORDER OF: (1)FUNCTIONAL NO. (2) TECH
(3)TYPE NUMBER

LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	
1	74L86N	CMS	HCC4070BF	SGAI	DL	LC05	65- 27	111	74-92N	TTL	SN74LS92J	Δ	DL	LC11	153- 35	
2	74L86N	CMS	HCFA030BE	SGAI	DL	LC05	65- 76	112	74-92N	TTL	SN74LS92N	Δ	DL	LC11	153- 36	
3	74L86N	CMS	HCFA030BF	SGAI	DL	LC05	65- 77	113	74-92N	TTL	SN7492AJ	TIH	DL	LC11	153- 39	
4	74L86N	CMS	HCFA070BE	SGAI	DL	LC05	65- 29	114	74-92N	TTL	SN7492AN	TIH	DL	LC11	153- 40	
5	74L86N	CMS	HCFA070BF	SGAI	DL	LC05	65- 30	115	74-92N	TTL	S54LS92F	Δ	DL	LC11	153- 21	
6	74L86N	CMS	HEFA030P	Δ	DL	LC05	65- 14	116	74-92N	TTL	S5492F	Δ	DL	LC11	153- 17	
7	74L86N	CMS	HEFA070	RTCF	DL	LC05	65- 66	117	74-92N	TTL	ZN5492AE	FERR	DL	LC11	153- 41	
8	74L86N	CMS	HEFA070P	Δ	DL	LC05	65- 15	118	74-92N	TTL	ZN5492AJ	FERR	DL	LC11	153- 42	
9	74L86N	CMS	JANM38510/05303BCA	Δ	DL	LC05	65- 2	119	74-92N	TTL	ZN7492AE	FERR	DL	LC11	153- 43	
10	74L86N	CMS	JANM38510/05303BCB	Δ	DL	LC05	65- 3	120	74-92N	TTL	ZN7492AJ	FERR	DL	LC11	153- 44	
11	74L86N	CMS	JANM38510/05303BCC	SSS	DL	LC05	65- 4	121	74-92N	TTL	ZN7492E	FERR	DL	LC11	152- 60	
12	74L86N	CMS	JANM38510/05303CCA	NSC	DL	LC05	65- 8	122	74-92N	TTL	5492ADM	FSC	DL	LC11	153- 27	
13	74L86N	CMS	JANM38510/05303CCB	NSC	DL	LC05	65- 9	123	74-92N	TTL	74LS92PC	FSC	DL	LC11	153- 26	
14	74L86N	CMS	MC14070BAL	MOTA	DL	LC05	65- 70	124	74-92N	TTL	7492ADC	FSC	DL	LC11	153- 29	
15	74L86N	CMS	MC14070BCL	MOTA	DL	LC05	65- 71	125	74-92N	TTL	7492APC	FSC	DL	LC11	153- 30	
16	74L86N	CMS	MC14070BCP	MOTA	DL	LC05	65- 72	126	74L93N	CMS	MM54C93D	NSC	DL	LC11	131- 55	
17	74L86N	CMS	MM4630AD	NSC	DL	LC05	65- 11	127	74L93N	CMS	MM74C93N	NSC	DL	LC11	131- 56	
18	74L86N	CMS	MM4630AF	NSC	FL	LC05	65- 12	128	74L93N	TTL	DM54L93J	NSC	DL	LC11	145- 43	
19	74L86N	CMS	MM54C86D	NSC	DL	LC05	64-101	129	74L93N	TTL	DM74L93N	NSC	DL	LC11	145- 44	
20	74L86N	CMS	SCL4030B	SSS	MO	LC05	65- 19	130	74L93N	TTL	DM76L93J	NSC	DL	LC11	145- 46	
21	74L86N	CMS	SCL4070B	SSS	MO	LC05	65- 20	131	74L93N	TTL	DM76L93N	NSC	DL	LC11	145- 47	
22	74L86N	CMS	SFF24030AEV	THEF	DL	LC05	65- 31	132	74L93N	TTL	DM86L93J	NSC	DL	LC11	145- 49	
23	74L86N	CMS	SFF24030AKM	THEF	DL	LC05	65- 32	133	74L93N	TTL	DM86L93N	NSC	DL	LC11	145- 50	
24	74L86N	CMS	4030BDC	FSC	DL	LC05	65- 42	134	74L93N	TTL	JANM38510/02502BCA	NSC	DL	LC11	144- 77	
25	74L86N	CMS	4030BDM	FSC	DL	LC05	65- 43	135	74L93N	TTL	JANM38510/02502BCB	NSC	DL	LC11	144- 78	
26	74L86N	CMS	4030BPC	FSC	DL	LC05	65- 46	136	74L93N	TTL	JANM38510/02502CCA	NSC	DL	LC11	144- 81	
27	74L86N	CMS	4070BDC	FSC	DL	LC05	65- 47	137	74L93N	TTL	JANM38510/02502CCB	NSC	DL	LC11	144- 82	
28	74L86N	CMS	4070BDM	FSC	DL	LC05	65- 48	138	74L93N	TTL	SFC493LE	THEF	DL	LC11	149- 93	
29	74L86N	CMS	4070BPC	FSC	DL	LC05	65- 51	139	74L93N	TTL	SFC493LEM	THEF	DL	LC11	149- 94	
30	74L86N	TTL	DM54L86J	NSC	DL	LC05	111- 17	140	74L93N	TTL	SN54L93J	TIH	DL	LC11	149- 95	
31	74L86N	TTL	DM74L86N	NSC	DL	LC05	111- 19	141	74LS93N	CMS	MSM5538	OKJ	DL	LC11	131- 63	
32	74L86N	TTL	JANM38510/02601BCA	NSC	DL	LC05	111- 20	142	74LS93N	TTL	DM5493J	NSC	DL	LC11	150- 24	
33	74L86N	TTL	JANM38510/02601BCB	NSC	DL	LC05	111- 21	143	74LS93N	TTL	DM7493N	NSC	DL	LC11	152- 67	
34	74L86N	TTL	JANM38510/02601CCA	NSC	DL	LC05	111- 24	144	74LS93N	TTL	FJ211-7493	PHIN	DL	LC11	144- 90	
35	74L86N	TTL	JANM38510/02601CCB	NSC	DL	LC05	111- 25	145	74LS93N	TTL	JANM38510/01302BCA	none	DL	LC11	144- 94	
36	74L86N	TTL	MB74LS386	FCAJ	DL	LC05	112- 33	146	74LS93N	TTL	JANM38510/01302BCB	Δ	DL	LC11	144- 95	
37	74L86N	TTL	MB74LS386M	FCAJ	DL	LC05	112- 34	147	74LS93N	TTL	JANM38510/01302CCA	none	DL	LC11	145- 4	
38	74L86N	TTL	N74LS386F	Δ	DL	LC05	112- 47	148	74LS93N	TTL	JANM38510/01302CCB	none	DL	LC11	145- 5	
39	74L86N	TTL	N74LS386N	Δ	DL	LC05	112- 48	149	74LS93N	TTL	JANM38510/31502BCA	none	DL	LC11	147- 64	
40	74L86N	TTL	N82S41F	Δ	DL	LC05	113- 20	150	74LS93N	TTL	JANM38510/31502BCB	TIH	DL	LC11	147- 65	
41	74L86N	TTL	N82S41N	Δ	DL	LC05	113- 21	151	74LS93N	TTL	JANM38510/31502CCA	none	DL	LC11	147- 67	
42	74L86N	TTL	SN54LS386J	Δ	DL	LC05	111- 59	152	74LS93N	TTL	JANM38510/31502CCB	none	DL	LC11	147- 68	
43	74L86N	TTL	SN54L86J	TIH	DL	LC05	111- 52	153	74LS93N	TTL	M74LS293P	MITJ	DL	LC11	150- 35	
44	74L86N	TTL	SN74LS386J	Δ	DL	LC05	112- 74	154	74LS93N	TTL	M74LS93P	MITJ	DL	LC11	150- 34	
45	74L86N	TTL	SN74LS386N	Δ	DL	LC05	112- 75	155	74LS93N	TTL	N74LS93F	Δ	DL	LC11	145- 53	
46	74L86N	TTL	S54LS386F	Δ	DL	LC05	111- 50	156	74LS93N	TTL	N74LS93N	Δ	DL	LC11	145- 54	
47	74L86N	TTL	S54LS386DM	FSC	DL	LC05	111- 15	157	74LS93N	TTL	N7493F	Δ	DL	LC11	145- 8	
48	74H87N	MON	SN54H87J	TIH	DL	LC27	182- 82	158	74LS93N	TTL	N7493N	Δ	DL	LC11	145- 9	
49	74H87N	MON	SN74H87J	TIH	DL	LC27	182- 86	159	74LS93N	TTL	SFC493E	THEF	DL	LC11	150- 20	
50	74H87N	MON	SN74H87N	TIH	DL	LC27	182- 87	160	74LS93N	TTL	SFC493EM	THEF	DL	LC11	150- 21	
51	74H87N	MON	54H87DM	FSC	DL	LC27	182- 73	161	74LS93N	TTL	SFC493ET	THEF	DL	LC11	150- 22	
52	74H87N	MON	74H87DC	FSC	DL	LC27	182- 75	162	74LS93N	TTL	SN54LS93J	Δ	DL	LC11	150- 2	
53	74H87N	MON	74H87PC	FSC	DL	LC27	182- 76	163	74LS93N	TTL	SN5493AJ	TIH	DL	LC11	150- 6	
54	74H89P	TTL	FJ141-7490	PHIN	DL	LC11	139- 99	164	74LS93N	TTL	SN74LS93J	Δ	DL	LC11	150- 4	
55	74H89P	TTL	MC3122L	MOTA	DL	LC05	115- 19	165	74LS93N	TTL	SN74LS93N	Δ	DL	LC11	150- 5	
56	74-90	TTL	SN5490N	TIH	DL	LC11	141- 17	166	74LS93N	TTL	SN7493AJ	TIH	DL	LC11	150- 8	
57	74-90N	CMS	MM54C90D	NSC	DL	LC11	135- 68	167	74LS93N	TTL	SN7493AN	TIH	DL	LC11	150- 9	
58	74-90N	CMS	MM74C90N	NSC	DL	LC11	135- 69	168	74LS93N	TTL	S54LS93F	Δ	DL	LC11	145- 57	
59	74-90N	TTL	DM54L90J	NSC	DL	LC11	140- 22	169	74LS93N	TTL	S5493F	Δ	DL	LC11	145- 13	
60	74-90N	TTL	DM5490J	NSC	DL	LC11	143- 61	170	74LS93N	TTL	ZN5493AE	FERR	DL	LC11	150- 10	
61	74-90N	TTL	DM74L90N	NSC	DL	LC11	140- 23	171	74LS93N	TTL	ZN5493AJ	FERR	DL	LC11	150- 11	
62	74-90N	TTL	DM7490N	NSC	DL	LC11	143- 63	172	74LS93N	TTL	ZN7493AE	FERR	DL	LC11	150- 12	
63	74-90N	TTL	JANM38510/01307BCA	none	DL	LC11	140- 3	173	74LS93N	TTL	ZN7493AJ	FERR	DL	LC11	150- 13	
64	74-90N	TTL	JANM38510/01307BCB	MOTA	DL	LC11	140- 4	174	74LS93N	TTL	ZN7493E	FERR	DL	LC11	145- 61	
65	74-90N	TTL	JANM38510/01307CCA	none	DL	LC11	140- 9	175	74LS93N	TTL	54LS93DM	FSC	DL	LC11	147-100	
66	74-90N	TTL	JANM38510/01307CCB	none	DL	LC11	140- 10	176	74LS93N	TTL	5493ADM	FSC	DL	LC11	152- 63	
67	74-90N	TTL	JANM38510/02501BCA	NSC	DL	LC11	139- 86	177	74LS93N	TTL	74LS93DC	FSC	DL	LC11	147-102	
68	74-90N	TTL	JANM38510/02501CCA	NSC	DL	LC11	139- 90	178	74LS93N	TTL	74LS93PC	FSC	DL	LC11	148- 1	
69	74-90N	TTL	M74LS90P	MITJ	DL	LC11	143- 75	179	74LS93N	TTL	7493ADC	FSC	DL	LC11	152- 65	
70	74-90N	TTL	N74LS90N	Δ	DL	LC11	140- 44	180	74LS93N	TTL	7493APC	FSC	DL	LC11	152- 66	
71	74-90N	TTL	N7490F	Δ	DL	LC11	140- 13	181	74-97N	TTL	SN5497J	TIH	DL	LC13	158- 12	
72	74-90N	TTL	N7490N	Δ	DL	LC11	140- 14	182	74-97N	TTL	SN7497J	TIH	DL	LC13	158- 14	
73	74-90N	TTL	SFC490E	THEF	DL	LC11	140- 49	183	74-97N	TTL	SN7497N	TIH	DL	LC13	158- 15	
74	74-90N	TTL	SFC490EM	THEF	DL	LC11	140- 50	184	74-100	TTL	SN54100J	TIH	DL	LC26	178- 89	
75	74-90N	TTL	SFC490ET	THEF	DL	LC11	140- 51	185	74-100N	TTL	N74100F	Δ	DL	LC26	178- 75	
76	74-90N	TTL	SN54LS90J	Δ	DL	LC11	143- 50	186	74-100N	TTL	N74100N	Δ	DL	LC26	178- 76	
77	74-90N	TTL	SN54L90J	TIH	DL	LC11	143- 48	187	74-100N	TTL	SN74100J	TIH	MO	LC26	178- 93	
78	74-90N	TTL	SN5490AJ	TIH	DL	LC11	143- 54	188	74-100N	TTL	SN74100N	TIH	DL	LC26	178- 94	
79	74-90N	TTL	SN74LS90J	Δ	DL	LC11	143- 52	189	74-100N	TTL	S54100F	Δ	DL	LC26	178- 81	
80	74-90N	TTL	SN74LS90N	Δ	DL	LC11	143- 53	190	74H103	TTL	JANM38510/02206BCA	Δ	SIC	DL	LC04	45- 3
81	74-90N	TTL	SN7490AJ	TIH	DL	LC11	143- 56	191	74H103	TTL	JANM38510/02206BCB	Δ	SIC	DL	LC04	45- 4
82	74-90N	TTL	SN7490AN	TIH	DL	LC11	143- 57	192	74H103	TTL	JANM38510/02206CCA	Δ	SIC	DL	LC04	45- 9
83	74-90N	TTL	S54LS90F	Δ	DL	LC11	140- 45	193	74H103	TTL	JANM38510/02206CCB	Δ	SIC	DL	LC04	45- 10
84	74-90N	TTL	S5490F	Δ	DL	LC11	140- 18	194	74H103	TTL	N74					

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IN ORDER OF: (1)FUNCTIONAL NO. (2) TECH
(3)TYPE NUMBER

LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE
1	74-107N	TTL	JANM38510/00203CCA	NSC	DL	LC04	43- 64	111	74LS113N	TTL	SN74ALS113J	TII	DL	LC04	34- 12
2	74-107N	TTL	JANM38510/00203CCB	NSC	DL	LC04	43- 65	112	74LS113N	TTL	SN74ALS113N	TII	DL	LC04	34- 13
3	74-107N	TTL	JANM38510/30108BCA	none	DL	LC04	41- 38	113	74LS113N	TTL	JANM38510/30104BCA	none	DL	LC04	41- 23
4	74-107N	TTL	JANM38510/30108BCB	Δ	DL	LC04	41- 39	114	74LS113N	TTL	JANM38510/30104BCB	Δ	DL	LC04	41- 24
5	74-107N	TTL	JANM38510/30108CCA	Δ	DL	LC04	41- 42	115	74LS113N	TTL	JANM38510/30104CCA	Δ	DL	LC04	41- 29
6	74-107N	TTL	JANM38510/30108CCB	none	DL	LC04	41- 43	116	74LS113N	TTL	JANM38510/30104CCB	FSC	DL	LC04	41- 30
7	74-107N	TTL	MB410	FCAJ	DL	LC04	45- 36	117	74LS113N	TTL	MC3162L	MOTA	DL	LC04	47- 52
8	74-107N	TTL	MB410M	FCAJ	DL	LC04	45- 37	118	74LS113N	TTL	M74ALS113AP	MITJ	DL	LC04	47- 46
9	74-107N	TTL	MB74LS107	FCAJ	DL	LC04	45- 22	119	74LS113N	TTL	M74LS113AP	MITJ	DL	LC04	43- 34
10	74-107N	TTL	MB74LS107M	FCAJ	DL	LC04	45- 25	120	74LS113N	TTL	N74LS113F	Δ	DL	LC04	45- 71
11	74-107N	TTL	M74LS107AP	MITJ	DL	LC04	43- 32	121	74LS113N	TTL	N74LS113N	Δ	DL	LC04	45- 72
12	74-107N	TTL	N74LS107F	MITJ	DL	LC04	45- 64	122	74LS113N	TTL	N74S113N	Δ	DL	LC04	45- 77
13	74-107N	TTL	N74LS107N	Δ	DL	LC04	45- 65	123	74LS113N	TTL	SN54LS113AJ	Δ	DL	LC04	42- 35
14	74-107N	TTL	N74107F	THEF	DL	LC04	45- 88	124	74LS113N	TTL	SN54S113J	TII	DL	LC04	46- 61
15	74-107N	TTL	SFC4107E	THEF	DL	LC04	46- 36	125	74LS113N	TTL	SN74LS113AJ	Δ	DL	LC04	46- 97
16	74-107N	TTL	SFC4107EM	THEF	DL	LC04	46- 37	126	74LS113N	TTL	SN74LS113AN	Δ	DL	LC04	46- 98
17	74-107N	TTL	SFC4107ET	THEF	DL	LC04	46- 38	127	74LS113N	TTL	SN74S113J	TII	DL	LC04	46-103
18	74-107N	TTL	SN54107J	TII	DL	LC04	47- 5	128	74LS113N	TTL	SN74S113N	TII	DL	LC04	46-104
19	74-107N	TTL	SN64107N	TII	DL	LC04	47- 13	129	74LS113N	TTL	S54LS113F	Δ	DL	LC04	42- 15
20	74-107N	TTL	SN74LS107AJ	Δ	DL	LC04	46- 91	130	74LS113N	TTL	S54S113F	Δ	DL	LC04	46- 15
21	74-107N	TTL	SN74LS107AN	Δ	DL	LC04	46- 92	131	74LS113N	TTL	T54LS113D2	SGAI	DL	LC04	42- 41
22	74-107N	TTL	SN74107J	TII	DL	LC04	47- 14	132	74LS113N	TTL	T74LS113B1	SGAI	DL	LC04	47- 28
23	74-107N	TTL	SN74107N	TII	DL	LC04	47- 15	133	74LS113D1	TTL	T74LS113D1	SGAI	DL	LC04	47- 29
24	74-107N	TTL	S54LS107F	Δ	DL	LC04	42- 9	134	74LS113N	TTL	74S113PC	FSC	DL	LC04	42- 92
25	74-107N	TTL	S54107F	Δ	DL	LC04	46- 27	135	74LS114	TTL	MB74LS114A	FCAJ	DL	LC04	45- 32
26	74-107N	TTL	54LS107DM	FSC	DL	LC04	40- 60	136	74LS114	TTL	MB74LS114AM	FCAJ	DL	LC04	45- 33
27	74-107N	TTL	54107DM	FSC	DL	LC04	42-101	137	74LS114	TTL	S54S114F	Δ	DL	LC04	46- 17
28	74-107N	TTL	74107DC	FSC	DL	LC04	42-103	138	74LS114N	TTL	SN74ALS114J	TII	DL	LC04	34- 14
29	74-107N	TTL	74107PC	FSC	DL	LC04	42-104	139	74LS114N	TTL	SN74ALS114N	TII	DL	LC04	34- 15
30	74-109	TTL	M74LS109AP	MITJ	DL	LC04	39-106	140	74LS114N	TTL	DM74S114N	NSC	DL	LC04	42-107
31	74-109	TTL	N74F109F	Δ	DL	LC04	47- 40	141	JANM38510/30105BCA	TTL	JANM38510/30105BCA	none	DL	LC04	41- 32
32	74-109	TTL	N74F109N	Δ	DL	LC04	47- 41	142	74LS114N	TTL	JANM38510/30105BCB	TII	DL	LC04	41- 33
33	74-109	TTL	SN54ALS109J#mil	Δ	DL	LC04	49- 31	143	74LS114N	TTL	JANM38510/30105CCA	none	DL	LC04	41- 35
34	74-109	TTL	S54F109F	Δ	DL	LC04	47- 43	144	74LS114N	TTL	JANM38510/30105CCB	none	DL	LC04	41- 36
35	74-109	TTL	54F109DM	FSC	DL	LC04	42- 44	145	74LS114N	TTL	M74ALS114AP	MITJ	DL	LC04	47- 47
36	74-109	TTL	54F109FM	FSC	FP	LC04	42- 45	146	74LS114N	TTL	M74LS114AP	MITJ	DL	LC04	43- 35
37	74-109	TTL	74F109DC	FSC	DL	LC04	42- 67	147	74LS114N	TTL	N74LS114F	Δ	DL	LC04	45- 73
38	74-109	TTL	74F109PC	FSC	DL	LC04	42- 68	148	74LS114N	TTL	N74LS114N	Δ	DL	LC04	45- 74
39	74-109N	TTL	JANM38510/30109BEA	none	DL	LC04	41- 45	149	74LS114N	TTL	N74S114F	Δ	DL	LC04	45- 78
40	74-109N	TTL	JANM38510/30109BEB	Δ	DL	LC04	41- 46	150	74LS114N	TTL	N74S114N	Δ	DL	LC04	45- 79
41	74-109N	TTL	JANM38510/30109BEC	none	DL	LC04	41- 49	151	74LS114N	TTL	SN54LS114AJ	Δ	DL	LC04	42- 37
42	74-109N	TTL	JANM38510/30109CEA	SIC	DL	LC04	47- 42	152	74LS114N	TTL	SN54S114J	TII	DL	LC04	46- 63
43	74-109N	TTL	N74109F	Δ	DL	LC04	45- 90	153	74LS114N	TTL	SN74LS114AJ	Δ	DL	LC04	46- 99
44	74-109N	TTL	N74109N	Δ	DL	LC04	45- 91	154	74LS114N	TTL	SN74S114J	TII	DL	LC04	46-105
45	74-109N	TTL	SN29000N	TII	DL	LC04	40- 27	155	74LS114N	TTL	SN74S114N	TII	DL	LC04	46-106
46	74-109N	TTL	SN29024J	TII	DL	LC04	40- 30	156	74LS114N	TTL	S54LS114F	Δ	DL	LC04	42- 17
47	74-109N	TTL	SN29024M	TII	DL	LC04	40- 31	157	74LS114N	TTL	T54LS114D2	SGAI	DL	LC04	42- 42
48	74-109N	TTL	SN54LS109AJ	Δ	DL	LC04	42- 31	158	74LS114N	TTL	T74LS114B1	SGAI	DL	LC04	47- 30
49	74-109N	TTL	SN54109J	TII	DL	LC04	47- 6	159	74LS114N	TTL	T74LS114D1	SGAI	DL	LC04	47- 31
50	74-109N	TTL	SN74ALS109J	Δ	DL	LC04	49- 32	160	74LS114N	TTL	74LS114PC	FSC	DL	LC04	42- 87
51	74-109N	TTL	SN74ALS109N	Δ	DL	LC04	49- 33	161	74-116N	TTL	N74116F	Δ	DL	LC26	178- 77
52	74-109N	TTL	SN74LS109AJ	Δ	DL	LC04	46- 93	162	74-116N	TTL	N74116N	Δ	DL	LC26	178- 78
53	74-109N	TTL	SN74LS109AN	Δ	DL	LC04	46- 94	163	74-116N	TTL	N9308F	Δ	DL	LC26	179- 5
54	74-109N	TTL	SN74109J	TII	DL	LC04	47- 16	164	74-116N	TTL	N9308N	Δ	DL	LC26	179- 6
55	74-109N	TTL	SN74109N	TII	DL	LC04	47- 17	165	74-116N	TTL	SN54116J	TII	MO	LC26	178- 91
56	74-109N	TTL	S54LS109F	Δ	DL	LC04	42- 11	166	74-116N	TTL	SN74116J	TII	MO	LC26	178- 95
57	74-109N	TTL	S54109F	Δ	DL	LC04	46- 29	167	74-116N	TTL	SN74116N	TII	DL	LC26	178- 96
58	74-109N	TTL	T54LS109D2	SGAI	DL	LC04	42- 39	168	74-116N	TTL	S54116F	Δ	DL	LC26	178- 84
59	74-109N	TTL	T74LS109B1	SGAI	DL	LC04	47- 24	169	74-116N	TTL	S9308F	Δ	DL	LC26	178- 79
60	74-109N	TTL	T74LS109D1	SGAI	DL	LC04	47- 25	170	74-116N	TTL	93L08DC	Δ	DL	LC26	178- 97
61	74-109N	TTL	54LS109DM	FSC	DL	LC04	40- 62	171	74-116N	TTL	93L08DM	Δ	DL	LC26	178- 98
62	74-109N	TTL	54S109DM	FSC	DL	LC04	42- 61	172	74-116N	TTL	93L08PC	Δ	DL	LC26	178-100
63	74-109N	TTL	74LS109DC	FSC	DL	LC04	42- 82	173	74-116N	TTL	9308DC	Δ	DL	LC26	178- 36
64	74-109N	TTL	74LS109PC	FSC	DL	LC04	42- 83	174	74-116N	TTL	9308DM	Δ	DL	LC26	178- 37
65	74-109N	TTL	74S109DC	FSC	DL	LC04	42- 88	175	74-116N	TTL	9308PC	Δ	DL	LC26	178- 39
66	74-109N	TTL	74S109PC	FSC	DL	LC04	42- 89	176	74H119P	TTL	MC3161L	MOTA	DL	LC04	47- 50
67	74-109N	TTL	9024DC	FSC	DL	LC04	40- 25	177	74-121	TTL	DM54121J	NSC	DL	LC10	127- 15
68	74-109N	TTL	9024DM	FSC	DL	LC04	40- 19	178	74-121	TTL	DM74121J	NSC	DL	LC10	127- 17
69	74LS109	TTL	MB74LS109A	FCAJ	DL	LC04	45- 26	179	74-121	TTL	DM74121N	NSC	DL	LC10	127- 18
70	74LS109	TTL	MB74LS109AM	FCAJ	DL	LC04	45- 27	180	74-121	TTL	FJK101-74121	PHIN	DL	LC10	125- 74
71	74-111N	TTL	SN54111J	TII	DL	LC04	47- 10	181	74-121	TTL	JANM38510/01201BCA	none	DL	LC10	125- 80
72	74-111N	TTL	SN74111J	TII	DL	LC04	47- 20	182	74-121	TTL	JANM38510/01201BCB	Δ	DL	LC10	125- 81
73	74-111N	TTL	SN74111N	TII	DL	LC04	47- 21	183	74-121	TTL	JANM38510/01201CCA	none	DL	LC10	126- 1
74	74LS112	TTL	MB74LS112A	FCAJ	DL	LC04	45- 28	184	74-121	TTL	JANM38510/01201CCB	none	DL	LC10	126- 2
75	74LS112	TTL	MB74LS112AM	FCAJ	DL	LC04	45- 29	185	74-121	TTL	M53321P	MITJ	DL	LC10	127- 57
76	74LS112	TTL	SN74LS112AJ	Δ	DL	LC04	46- 95	186	74-121	TTL	N74121F	Δ	DL	LC10	126- 66
77	74LS112	TTL	SN74LS112AN	Δ	DL	LC04	46- 96	187	74-121	TTL	N74121N	Δ	DL	LC10	126- 67
78	74LS112	TTL	S54S112F	Δ	DL	LC04	46- 13	188	74-121	TTL	SN54L121J	TII	DL	LC10	124- 43
79	74LS112N	TTL	SN74ALS112J	TII	DL	LC04	34- 10	189	74-121	TTL	SN74121J	TII	DL	LC10	127- 60
80	74LS112N	TTL	SN74ALS112N	TII	DL	LC04	34- 11	190	74-121	TTL	SN74121N	TII	DL	LC10	127- 61
81	74LS112N	TTL	DM74S112N	NSC	DL	LC04	42-105	191	74-121	TTL	S54121F	Δ	DL	LC10	127- 5
82	74LS112N	TTL	JANM38510/30103BEA	none	DL	LC04	41- 14	192	74-121	TTL	54121DM	FSC	DL	LC10	127- 53
83	74LS112N	TTL	JANM38510/30103BEB	Δ	DL	LC04	41- 15	193	74-121	TTL	74121DC	FSC	DL	LC10	127- 55
84	74LS112N	TTL	JANM38510/30103CEA	none	DL	LC04	41								

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LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	
1	74-122	TTL	SN74122J	TII	DL	LC10	124-75	111	74-136N	TTL	SN74LS136N	Δ	DL	LC05	112-73	
2	74-122	TTL	SN74122N	TII	DL	LC10	124-76	112	74-136N	TTL	SN74136J	TII	DL	LC05	112-84	
3	74-122	TTL	S54122F	Δ	DL	LC10	127-8	113	74-136N	TTL	SN74136N	Δ	DL	LC05	112-85	
4	74-122	TTL	S8722F	Δ	DL	LC10	125-29	114	74-136N	TTL	S54LS136F	Δ	DL	LC05	111-48	
5	74-122	TTL	S8722N	Δ	DL	LC10	125-30	115	74-136N	TTL	T54LS136D2	Δ	SGAI	DL	LC05	111-62
6	74-122	TTL	ZN54122E	FERB	DL	LC10	124-79	116	74-136N	TTL	T74LS136B1	SGAI	DL	LC05	112-88	
7	74-122	TTL	ZN54122J	FERB	DL	LC10	124-80	117	74-136N	TTL	T74LS136D1	SGAI	DL	LC05	113-1	
8	74-122	TTL	ZN74122E	FERB	DL	LC10	124-83	118	74-136N	TTL	54LS136DM	FSC	DL	LC05	111-13	
9	74-122	TTL	ZN74122J	FERB	DL	LC10	124-84	119	74-136N	TTL	74LS136DC	FSC	DL	LC05	111-67	
10	74-122	TTL	54122DM	FSC	DL	LC10	125-61	120	74-136N	TTL	74LS136PC	FSC	DL	LC05	111-68	
11	74-122	TTL	74122DC	FSC	DL	LC10	125-63	121	74S136	TTL	SN54S136F	Δ	MULB	DL	LC06	121-89
12	74-122	TTL	74122PC	FSC	DL	LC10	125-64	122	74S136	TTL	S54LS136F	Δ	MULB	DL	LC06	121-93
13	74-123	TTL	AM26123DC	AMD	DL	LC10	124-60	123	74S136N	TTL	AM25LS136DC	AMD	DL	LC06	121-73	
14	74-123	TTL	AM26123DM	AMD	DL	LC10	124-61	124	74S136N	TTL	AM25LS136DM	AMD	DL	LC06	121-74	
15	74-123	TTL	AM26123PC	AMD	DL	LC10	124-63	125	74S136N	TTL	AM25LS136PC	AMD	DL	LC06	121-76	
16	74-123	TTL	DM74L123N	NSC	DL	LC10	124-67	126	74S136N	TTL	D3205	ITL	DL	LC06	118-42	
17	74-123	TTL	DM74L123N	NSC	DL	LC10	124-68	127	74S136N	TTL	MB74LS138	FCAJ	DL	LC06	121-77	
18	74-123	TTL	DM7853J	NSC	DL	LC10	125-69	128	74S136N	TTL	MB74LS138M	FCAJ	DL	LC06	121-78	
19	74-123	TTL	DM8853J	NSC	DL	LC10	125-71	129	74S136N	TTL	N74LS138F	MULB	DL	LC06	118-15	
20	74-123	TTL	DM8853N	NSC	DL	LC10	125-72	130	74S136N	TTL	N74LS138F	MULB	DL	LC06	121-79	
21	74-123	TTL	JANM38510/01203BEA	none	DL	LC10	126-13	131	74S136N	TTL	N74LS138N	MULB	DL	LC06	121-80	
22	74-123	TTL	JANM38510/01203BEB	Δ	DL	LC10	126-14	132	74S136N	TTL	N74S138F	MULB	DL	LC06	121-81	
23	74-123	TTL	JANM38510/01203CEA	none	DL	LC10	126-17	133	74S136N	TTL	N74S138N	MULB	DL	LC06	121-82	
24	74-123	TTL	JANM38510/01203CEB	none	DL	LC10	126-18	134	74S136N	TTL	SN54LS138J	Δ	DL	LC06	121-87	
25	74-123	TTL	JANM38510/31401BEA	none	DL	LC10	125-41	135	74S136N	TTL	SN74LS138J	Δ	DL	LC06	121-91	
26	74-123	TTL	JANM38510/31401BEB	TII	DL	LC10	125-42	136	74S136N	TTL	SN74LS138N	Δ	DL	LC06	121-92	
27	74-123	TTL	JANM38510/31401CEA	none	DL	LC10	125-44	137	74S136N	TTL	SN74LS138J	Δ	DL	LC06	121-93	
28	74-123	TTL	JANM38510/31401CEB	none	DL	LC10	125-45	138	74S136N	TTL	SN74LS138N	Δ	DL	LC06	121-94	
29	74-123	TTL	MB440	FCAJ	DL	LC10	124-69	139	74S136N	TTL	S54S138F	Δ	MULB	DL	LC06	121-85
30	74-123	TTL	MB440M	FCAJ	DL	LC10	124-70	140	74S136N	TTL	SS54S56B	SSS	MO	LC06	116-93	
31	74-123	TTL	MB74LS123	FCAJ	DL	LC10	126-39	141	74S136N	TTL	OC4556BD	FCAJ	MO	LC06	116-53	
32	74-123	TTL	MB74LS123M	FCAJ	DL	LC10	126-40	142	74S136N	TTL	OC4556BE	FCAJ	MO	LC06	116-54	
33	74-123	TTL	M74LS123P	MITJ	DL	LC10	126-76	143	74S136N	TTL	OC4556BF	FCAJ	MO	LC06	116-55	
34	74-123	TTL	N74LS123AF	Δ	DL	LC10	126-62	144	74S136N	TTL	SCL4556B	SSS	DL	LC06	116-90	
35	74-123	TTL	N74LS123AN	Δ	DL	LC10	126-63	145	74S136N	TTL	MB74LS139	FCAJ	DL	LC06	121-39	
36	74-123	TTL	N74123	Δ	DL	LC10	126-71	146	74S136N	TTL	MB74LS139M	FCAJ	DL	LC06	121-40	
37	74-123	TTL	N74123N	Δ	DL	LC10	126-72	147	74S136N	TTL	M74LS139P	MITJ	DL	LC06	121-36	
38	74-123	TTL	SFC4123E	THEF	DL	LC10	124-64	148	74S136N	TTL	SN54LS139J	Δ	DL	LC06	121-45	
39	74-123	TTL	SFC4123EM	THEF	DL	LC10	124-65	149	74S136N	TTL	SN54S139J	Δ	DL	LC06	121-47	
40	74-123	TTL	SFC4123ET	THEF	DL	LC10	124-66	150	74S136N	TTL	SN74LS139J	Δ	DL	LC06	121-49	
41	74-123	TTL	SN54LS123J	TII	DL	LC10	126-53	151	74S136N	TTL	SN74LS139N	Δ	DL	LC06	121-50	
42	74-123	TTL	SN54LS123J	TII	DL	LC10	126-50	152	74S136N	TTL	SN74LS139N	Δ	DL	LC06	121-51	
43	74-123	TTL	SN54123J	TII	DL	LC10	124-73	153	74S136N	TTL	SN74LS139N	Δ	DL	LC06	121-52	
44	74-123	TTL	SN74LS123J	Δ	DL	LC10	126-57	154	74S136N	TTL	93L21PC	AMD	DL	LC06	118-32	
45	74-123	TTL	SN74LS123N	Δ	DL	LC10	126-58	155	74S136N	TTL	93S21DC	AMD	DL	LC06	121-28	
46	74-123	TTL	SN74123J	Δ	DL	LC10	124-77	156	74S136N	TTL	93S21DM	AMD	DL	LC06	121-29	
47	74-123	TTL	SN74123N	Δ	DL	LC10	124-78	157	74S136N	TTL	93S21PC	AMD	DL	LC06	121-31	
48	74-123	TTL	S54LS123AF	Δ	DL	LC10	127-1	158	74-154N	TTL	M53954P	MITJ	DL	LC06	116-14	
49	74-123	TTL	S54123E	Δ	DL	LC10	126-47	159	74-154N	TTL	DM74L154AN	NSC	DL	LC06	118-44	
50	74-123	TTL	S54123F	Δ	DL	LC10	127-11	160	74-154N	TTL	DM74L154J	NSC	DL	LC06	120-78	
51	74-123	TTL	ZN54123E	FERB	DL	LC10	124-81	161	74-154N	TTL	DM74L154N	NSC	DL	LC06	120-79	
52	74-123	TTL	ZN54123J	FERB	DL	LC10	124-82	162	74-154N	TTL	SFC4154E	THEF	DL	LC06	120-80	
53	74-123	TTL	ZN74123E	FERB	DL	LC10	124-85	163	74-154N	TTL	SFC4154EM	THEF	DL	LC06	120-81	
54	74-123	TTL	ZN74123J	FERB	DL	LC10	124-86	164	74-154N	TTL	SFC4154ET	THEF	DL	LC06	120-82	
55	74-123	TTL	54123DM	FSC	DL	LC10	124-56	165	74-154N	TTL	SN54L154J	TII	MO	LC06	120-83	
56	74-123	TTL	74123DC	FSC	DL	LC10	124-58	166	74-154N	TTL	SN54154J	Δ	MO	LC06	120-86	
57	74-123	TTL	74123PC	FSC	DL	LC10	124-59	167	74-154N	TTL	SN74154J	Δ	MO	LC06	120-88	
58	74LS124	TTL	SN54LS124J	TII	DL	LC12	155-50	168	74-154N	TTL	SN74154AN	Δ	DL	LC06	120-89	
59	74LS124	TTL	SN54S124J	TII	DL	LC12	155-54	169	74-154N	TTL	ZN54154E	FERB	DL	LC06	118-94	
60	74LS124	TTL	SN74LS124J	TII	DL	LC12	155-52	170	74-154N	TTL	ZN54154J	FERB	DL	LC06	119-1	
61	74LS124	TTL	SN74LS124N	TII	DL	LC12	155-53	171	74-154N	TTL	ZN74154E	FERB	DL	LC06	118-4	
62	74LS124	TTL	SN74S124J	TII	DL	LC12	155-56	172	74-154N	TTL	ZN74154J	FERB	DL	LC06	118-5	
63	74LS124	TTL	SN74S124N	TII	DL	LC12	155-57	173	74-154N	TTL	54154DM	FSC	DL	LC06	120-73	
64	74-133	OMS	MM74HC133J	NSC	DL	LC05	61-105	174	74-155N	TTL	74154DC	FSC	DL	LC06	120-75	
65	74S133N	TTL	JANM38510/07009BEA	none	DL	LC05	103-50	175	74-155N	TTL	74154PC	FSC	DL	LC06	120-76	
66	74S133N	TTL	JANM38510/07009BEB	Δ	DL	LC05	103-51	176	74-155N	TTL	93L11PC	AMD	DL	LC06	118-31	
67	74S133N	TTL	JANM38510/07009CEA	none	DL	LC05	103-54	177	74-155N	TTL	9311PC	AMD	DL	LC06	120-72	
68	74S133N	TTL	JANM38510/07009CEB	FSC	DL	LC05	103-55	178	74-155N	TTL	M53955P	MITJ	DL	LC06	116-15	
69	74S133N	TTL	M74LS133P	MITJ	DL	LC05	100-23	179	74-155N	TTL	MB74LS155	FCAJ	DL	LC06	121-41	
70	74S133N	TTL	N74S133F	Δ	DL	LC05	105-19	180	74-155N	TTL	MB74LS155M	FCAJ	DL	LC06	121-42	
71	74S133N	TTL	N74S133N	Δ	DL	LC05	105-20	181	74-155N	TTL	M74LS155P	MITJ	DL	LC06	121-37	
72	74S133N	TTL	SN54LS133J	MOTA	DL	LC05	98-10	182	74-155N	TTL	SFC4155E	THEF	DL	LC06	118-80	
73	74S133N	TTL	SN54S133J	TII	DL	LC05	107-3	183	74-155N	TTL	SFC4155EM	THEF	DL	LC06	118-81	
74	74S133N	TTL	SN74ALS133J	TII	DL	LC05	107-39	184	74-155N	TTL	SFC4155ET	THEF	DL	LC06	118-82	
75	74S133N	TTL	SN74ALS133N	TII	DL	LC05	107-40	185	74-155N	TTL	SN54155J	TII	DL	LC06	118-86	
76	74S133N	TTL	SN74LS133J	MOTA	DL	LC05	107-86	186	74-155N	TTL	SN74155J	TII	DL	LC06	118-90	
77	74S133N	TTL	SN74LS133N	MOTA	DL	LC05	107-87	187	74-155N	TTL	SN74155N	TII	DL	LC06	118-91	
78	74S133N	TTL	SN74S133J	TII	DL	LC05	107-106	188	74-155N	TTL	ZN54155E	FERB	DL	LC06	118-2	
79	74S133N	TTL	SN74S133N	TII	DL	LC05	107-107	189	74-155N	TTL	ZN54155J	FERB	DL	LC06	118-3	
80	74S133N	TTL	S54S133F	Δ	DL	LC05	105-69	190	74-155N	TTL	ZN74155E	FERB	DL	LC06	118-6	
81	74S133N	TTL	54LS133DM	FSC	DL	LC05	94-45	191	74-155N	TTL	ZN74155J	FERB	DL	LC06	118-7	
82	74S133DM	TTL	54S133DM	FSC	DL	LC05	98-48	192	74-156N	TTL	M53956P	MITJ	DL	LC06	116-16	
83	74S133N	TTL	74LS133DC	FSC	DL	LC05	98-84	193	74-156N	TTL	JANM38510/15202BEA	none	DL	LC06	118-49	
84	74S133N	TTL	74LS133PC	FSC	DL	LC05	98-85	194	74-156N	TTL	JANM38510/15202BEB	MOTA	DL	LC06	118-50	
85	74S133N	TTL	74S133DC													

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IN ORDER OF: (1)FUNCTIONAL NO. (2) TECH
(3)TYPE NUMBER

LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	
1	74-160N	CMS	CD40160BCJ	NSC	DL	LC11	135- 92	111	74-161N	TTL	AM25LS161FM	AMD	DL	LC11	149- 24	
2	74-160N	CMS	CD40160BCN	NSC	DL	LC11	135- 93	112	74-161N	TTL	AM25LS161PC	AMD	DL	LC11	149- 25	
3	74-160N	CMS	CD40160BD	RCA	MO	LC11	130- 52	113	74-161N	TTL	JANM38510/01306BEA	none	DL	LC11	145- 77	
4	74-160N	CMS	CD40160BE	RCA	MO	LC11	130- 53	114	74-161N	TTL	JANM38510/01306BEB	Δ	DL	LC11	145- 78	
5	74-160N	CMS	CD40160BF	RCA	MO	LC11	130- 54	115	74-161N	TTL	JANM38510/01306CEA	Δ	DL	LC11	145- 81	
6	74-160N	CMS	CD40160BMJ	NSC	DL	LC11	136- 1	116	74-161N	TTL	JANM38510/01306CEB	Δ	DL	LC11	145- 82	
7	74-160N	CMS	CD40160BMW	NSC	FP	LC11	136- 2	117	74-161N	TTL	JANM38510/31504BEB	Δ	DL	LC11	146- 34	
8	74-160N	CMS	HCC40160BD	SGAI	DL	LC11	130- 58	118	74-161N	TTL	JANM38510/31504CEB	Δ	DL	LC11	146- 36	
9	74-160N	CMS	HCC40160BF	SGAI	DL	LC11	130- 59	119	74-161N	TTL	MB74LS161A	AMD	FCAJ	DL	LC11	141- 40
10	74-160N	CMS	HCF40160BE	SGAI	DL	LC11	130- 64	120	74-161N	TTL	MB74LS161AM	FCAJ	DL	LC11	141- 41	
11	74-160N	CMS	HCF40160BF	SGAI	DL	LC11	130- 65	121	74-161N	TTL	M53361P	MITJ	DL	LC11	146- 72	
12	74-160N	CMS	HEF40160	RTCF	DL	LC11	136- 57	122	74-161N	TTL	M74LS161AP	MITJ	DL	LC11	146- 70	
13	74-160N	CMS	HEF40160BDF	SIC	DL	LC11	136- 58	123	74-161N	TTL	N74LS161AD	SIC	DL	LC11	148- 62	
14	74-160N	CMS	HEF40160BPN	SIC	DL	LC11	136- 59	124	74-161N	TTL	N74LS161AN	Δ	DL	LC11	148- 63	
15	74-160N	CMS	MC14160BAL	MOTA	DL	LC11	136- 21	125	74-161N	TTL	N74161F	Δ	DL	LC11	146- 82	
16	74-160N	CMS	MC14160BCL	MOTA	DL	LC11	136- 22	126	74-161N	TTL	N74161N	Δ	DL	LC11	146- 83	
17	74-160N	CMS	MC14160BPC	MOTA	DL	LC11	136- 23	127	74-161N	TTL	SN29316J	THI	DL	LC11	148- 32	
18	74-160N	CMS	MM74C160N	NSC	DL	LC11	135- 82	128	74-161N	TTL	SN29316N	THI	DL	LC11	148- 33	
19	74-160N	CMS	SML4160B	SSS	DL	LC11	136- 27	129	74-161N	TTL	SN39316J	THI	DL	LC11	148- 34	
20	74-160N	CMS	TC40160BP	TOSJ	DL	LC11	129- 73	130	74-161N	TTL	SN54LS161AJ	Δ	DL	LC11	148- 24	
21	74-160N	CMS	40160BDC	FSC	DL	LC11	136- 11	131	74-161N	TTL	SN54LS161J	AMD	DL	LC11	147- 14	
22	74-160N	CMS	40160BDM	FSC	DL	LC11	136- 12	132	74-161N	TTL	SN54S161J	AMD	DL	LC11	149- 60	
23	74-160N	CMS	40160BPC	FSC	DL	LC11	136- 15	133	74-161N	TTL	SN54161J	Δ	DL	LC11	147- 40	
24	74-160N	TTL	AM25LS160DC	AMD	DL	LC11	151- 75	134	74-161N	TTL	SN74LS161AJ	Δ	DL	LC11	148- 28	
25	74-160N	TTL	AM25LS160DM	AMD	DL	LC11	151- 76	135	74-161N	TTL	SN74LS161AN	Δ	DL	LC11	148- 29	
26	74-160N	TTL	AM25LS160PC	AMD	DL	LC11	151- 78	136	74-161N	TTL	SN74LS161J	AMD	DL	LC11	147- 26	
27	74-160N	TTL	DM74160N	NSC	DL	LC11	142- 65	137	74-161N	TTL	SN74LS161N	AMD	DL	LC11	147- 27	
28	74-160N	TTL	JANM38510/01303BEA	none	DL	LC11	140- 60	138	74-161N	TTL	SN74S161J	AMD	DL	LC11	149- 64	
29	74-160N	TTL	JANM38510/01303BEB	Δ	DL	LC11	140- 61	139	74-161N	TTL	SN74S161N	AMD	DL	LC11	149- 65	
30	74-160N	TTL	JANM38510/01303CEA	Δ	DL	LC11	140- 64	140	74-161N	TTL	SN74161J	Δ	DL	LC11	147- 46	
31	74-160N	TTL	JANM38510/01303CEB	Δ	DL	LC11	140- 65	141	74-161N	TTL	SN74161N	Δ	DL	LC11	147- 47	
32	74-160N	TTL	JANM38510/31503BEB	TIJ	DL	LC11	141- 18	142	74-161N	TTL	S54161F	Δ	DL	LC11	147- 4	
33	74-160N	TTL	JANM38510/31503CEB	none	DL	LC11	141- 19	143	74-161N	TTL	ZN54161E	FERRB	DL	LC11	147- 52	
34	74-160N	TTL	MB450	FCAJ	DL	LC11	147- 87	144	74-161N	TTL	ZN54161J	FERRB	DL	LC11	147- 53	
35	74-160N	TTL	MB450M	FCAJ	DL	LC11	147- 88	145	74-161N	TTL	ZN74161E	FERRB	DL	LC11	147- 58	
36	74-160N	TTL	MB451	FCAJ	DL	LC11	142- 16	146	74-161N	TTL	ZN74161J	FERRB	DL	LC11	147- 59	
37	74-160N	TTL	MB451M	FCAJ	DL	LC11	142- 17	147	74-161N	TTL	54F161DM	FSC	DL	LC11	149- 76	
38	74-160N	TTL	MB74LS160A	FCAJ	DL	LC11	141- 38	148	74-161N	TTL	54LS161DM	FSC	DL	LC11	144- 62	
39	74-160N	TTL	MB74LS160AM	FCAJ	DL	LC11	141- 39	149	74-161N	TTL	54161DM	FSC	DL	LC11	148- 2	
40	74-160N	TTL	M53360P	MITJ	DL	LC11	141- 35	150	74-161N	TTL	74F161DC	FSC	DL	LC11	149- 80	
41	74-160N	TTL	N74LS160AF	Δ	DL	LC11	141- 44	151	74-161N	TTL	74F161PC	FSC	DL	LC11	149- 81	
42	74-160N	TTL	N74160F	Δ	DL	LC11	141- 50	152	74-161N	TTL	74LS161DC	FSC	DL	LC11	144- 66	
43	74-160N	TTL	N74160N	Δ	DL	LC11	141- 51	153	74-161N	TTL	74LS161PC	FSC	DL	LC11	144- 67	
44	74-160N	TTL	SN29310J	TIJ	DL	LC11	151- 50	154	74-161N	TTL	74161DC	FSC	DL	LC11	148- 6	
45	74-160N	TTL	SN29310N	TIJ	DL	LC11	151- 51	155	74-161N	TTL	74161PC	FSC	DL	LC11	146- 42	
46	74-160N	TTL	SN39310J	TIJ	DL	LC11	151- 52	156	74-161N	TTL	93L16DC	Δ	DL	LC11	145- 28	
47	74-160N	TTL	SN54LS160AJ	Δ	DL	LC11	142- 45	157	74-161N	TTL	93L16DM	Δ	DL	LC11	145- 29	
48	74-160N	TTL	SN54LS160J	AMD	DL	LC11	141- 65	158	74-161N	TTL	93L16PC	Δ	DL	LC11	145- 31	
49	74-160N	TTL	SN54S160J	AMD	DL	LC11	143- 23	159	74-161N	TTL	93L16PC#	FSC	DL	LC11	145- 32	
50	74-160N	TTL	SN54160J	Δ	DL	LC11	141- 89	160	74-161N	TTL	93S16DC	Δ	DL	LC11	143- 18	
51	74-160N	TTL	SN74LS160AJ	Δ	DL	LC11	142- 50	161	74-161N	TTL	93S16DC#	FSC	DL	LC11	145- 33	
52	74-160N	TTL	SN74LS160AN	Δ	DL	LC11	142- 51	162	74-161N	TTL	93S16DM	Δ	DL	LC11	143- 19	
53	74-160N	TTL	SN74LS160J	AMD	DL	LC11	141- 75	163	74-161N	TTL	93S16DM#	FSC	DL	LC11	145- 34	
54	74-160N	TTL	SN74LS160N	AMD	DL	LC11	141- 76	164	74-161N	TTL	93S16PC	AMD	DL	LC11	143- 21	
55	74-160N	TTL	SN74S160J	AMD	DL	LC11	143- 27	165	74-161N	TTL	9316DC	Δ	DL	LC11	152- 82	
56	74-160N	TTL	SN74S160N	AMD	DL	LC11	143- 28	166	74-161N	TTL	9316DM	Δ	DL	LC11	152- 83	
57	74-160N	TTL	SN74160J	Δ	DL	LC11	141- 95	167	74-162	CMS	HEF40162BTD	SIC	FP	LC11	136- 67	
58	74-160N	TTL	SN74160N	Δ	DL	LC11	141- 96	168	74-162	CMS	SCL4162B	SSS	DL	LC11	136- 28	
59	74-160N	TTL	SN4LS160AF	Δ	DL	LC11	141- 55	169	74-162	CMS	883/4162B	SSS	MO	LC11	133- 85	
60	74-160N	TTL	S54160F	Δ	DL	LC11	141- 61	170	74-162	TTL	M74LS162AP	MITJ	DL	LC11	141- 34	
61	74-160N	TTL	54F160DM	FSC	DL	LC11	143- 31	171	74-162	TTL	SN54ALS162J	MOTA	DL	LC11	144- 50	
62	74-160N	TTL	54160DM	FSC	DL	LC11	142- 37	172	74-162	TTL	SN54ALS162N	MOTA	DL	LC11	144- 51	
63	74-160N	TTL	74F160DC	FSC	DL	LC11	143- 35	173	74-162	TTL	SN54S162J	TIJ	DL	LC11	142- 84	
64	74-160N	TTL	74F160PC	FSC	DL	LC11	143- 36	174	74-162	TTL	SN74ALS162J	MOTA	DL	LC11	144- 58	
65	74-160N	TTL	74LS160PC	FSC	DL	LC11	139- 79	175	74-162	TTL	SN74ALS162N	MOTA	DL	LC11	144- 59	
66	74-160N	TTL	74160DC	FSC	DL	LC11	142- 40	176	74-162	TTL	74LS162PC	FSC	DL	LC11	139- 80	
67	74-160N	TTL	74160PC	FSC	DL	LC11	142- 41	177	74-162N	CMS	CD40162BCJ	NSC	DL	LC11	136- 3	
68	74-160N	TTL	93L10DC	Δ	DL	LC11	140- 27	178	74-162N	CMS	CD40162BCN	NSC	DL	LC11	136- 4	
69	74-160N	TTL	93L10DM	Δ	DL	LC11	140- 28	179	74-162N	CMS	CD40162BD	RCA	MO	LC11	130- 55	
70	74-160N	TTL	93L10PC	AMD	DL	LC11	140- 30	180	74-162N	CMS	CD40162BE	RCA	MO	LC11	130- 56	
71	74-160N	TTL	93L10PC#	FSC	DL	LC11	140- 31	181	74-162N	CMS	CD40162BF	RCA	MO	LC11	130- 57	
72	74-160N	TTL	93S10DC	Δ	DL	LC11	143- 14	182	74-162N	CMS	CD40162BMJ	NSC	DL	LC11	136- 5	
73	74-160N	TTL	93S10DM	Δ	DL	LC11	143- 15	183	74-162N	CMS	HCC40162BD	SGAI	DL	LC11	130- 61	
74	74-160N	TTL	93S10PC	AMD	DL	LC11	143- 17	184	74-162N	CMS	HCC40162BF	SGAI	DL	LC11	130- 62	
75	74-160N	TTL	9310DC	Δ	DL	LC11	140- 38	185	74-162N	CMS	HCF40162BE	SGAI	DL	LC11	130- 66	
76	74-160N	TTL	9310DM	Δ	DL	LC11	140- 39	186	74-162N	CMS	HCF40162BF	SGAI	DL	LC11	130- 67	
77	74-160N	TTL	9310PC	Δ	DL	LC11	139- 81	187	74-162N	CMS	HEF40162	RTCF	DL	LC11	136- 60	
78	74-161	CMS	HEF40161BTD	SIC	FP	LC11	135- 7	188	74-162N	CMS	HEF40162B	VALG	DL	LC11	130- 70	
79	74-161	CMS	SCL4161B	SSS	DL	LC11	133- 52	189	74-162N	CMS	HEF40162BDF	SIC	DL	LC11	136- 61	
80	74-161	CMS	883/4161B	SSS	MO	LC11	133- 84	190	74-162N	CMS	HEF40162BPN	SIC	DL	LC11	136- 62	
81	74-161	TTL	DM74161N	NSC	DL	LC11	148- 60	191	74-162N	CMS	MC14162BAL	MOTA	DL	LC11	136- 24	
82	74-161	TTL	SN54LS161J	MOTA	DL	LC11	144- 48	192	74-162N	CMS	MC14162BCL	MOTA	DL	LC11	136- 25	
83	74-161	TTL	SN54LS161N	MOTA	DL	LC11	144- 49	193	74-162N	CMS	MC14162BPC	MOTA	DL	LC11	136- 26	

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IN ORDER OF: (1)FUNCTIONAL NO. (2) TECH
(3)TYPE NUMBER

LINE No.	1			MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	LINE No.	2			MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	
	FUNCTIONAL NUMBER	TECH	TYPE NUMBER						FUNCTIONAL NUMBER	TECH	TYPE NUMBER					
1	74-162N	TTL	SN74LS162J	AMD	DL	LC11	141-77	111	74S169N	TTL	N74LS169AN	Δ	DL	LC11	150-68	
2	74-162N	TTL	SN74LS162N	AMD	DL	LC11	141-78	112	74S169N	TTL	SN54LS169J	Δ	MOTA	DL	LC11	147-18
3	74-162N	TTL	SN74S162J	TII	DL	LC11	141-87	113	74S169N	TTL	SN54S169J	TII	DL	LC11	150-86	
4	74-162N	TTL	SN74S162N	TII	DL	LC11	141-88	114	74S169N	TTL	SN74LS169AJ	TII	DL	LC11	150-84	
5	74-162N	TTL	SN74162J	Δ	DL	LC11	141-97	115	74S169N	TTL	SN74LS169AN	TII	DL	LC11	150-85	
6	74-162N	TTL	SN74162N	Δ	DL	LC11	141-98	116	74S169N	TTL	SN74LS169J	MOTA	DL	LC11	147-30	
7	74-162N	TTL	S54LS162AF	Δ	DL	LC11	141-57	117	74S169N	TTL	SN74LS169N	MOTA	DL	LC11	147-31	
8	74-162N	TTL	S54162E	Δ	DL	LC11	147-6	118	74S169N	TTL	SN74S169J	TII	DL	LC11	150-88	
9	74-162N	TTL	S54162F	Δ	DL	LC11	141-63	119	74S169N	TTL	SN74S169N	TII	DL	LC11	150-89	
10	74-162N	TTL	54F162DM	FSC	DL	LC11	143-33	120	74S169N	TTL	S54LS169AF	Δ	DL	LC11	150-75	
11	74-162N	TTL	74F162DC	FSC	DL	LC11	143-37	121	74S169N	TTL	54LS169DM	Δ	FSC	DL	LC11	150-63
12	74-162N	TTL	74F162PC	FSC	*	LC11	143-38	122	74S169N	TTL	74LS169DC	FSC	DL	LC11	150-65	
13	74-162N	TTL	74162PC	FSC	DL	LC11	141-28	123	74S169N	TTL	74LS169PC	FSC	*	LC11	150-66	
14	74-163	CMS	HEF40163BTD	SIC	FP	LC11	135-8	124	74-173	CMS	883/4076B	SSS	MO	LC04	37-21	
15	74-163	CMS	SCL4163B	SSS	DL	LC11	133-53	125	74-173	TTL	N74LS173F	Δ	DL	LC04	53-91	
16	74-163	CMS	883/4163B	SSS	MO	LC11	133-86	126	74-173	TTL	N74LS173N	Δ	DL	LC04	53-92	
17	74-163	TTL	SN54LS163J	MOTA	DL	LC11	144-52	127	74-173	TTL	N74173F	Δ	DL	LC04	54-11	
18	74-163	TTL	SN54LS163N	MOTA	DL	LC11	144-53	128	74-173	TTL	N74173N	Δ	DL	LC04	54-12	
19	74-163	TTL	SN54S163J	TII	DL	LC11	148-88	129	74-173	TTL	S54LS173F	Δ	DL	LC04	53-37	
20	74-163	TTL	SN74LS163J	MOTA	DL	LC11	144-60	130	74-173N	CMS	CD4076BC	NSC	DL	LC04	37-8	
21	74-163	TTL	SN74LS163N	MOTA	DL	LC11	144-61	131	74-173N	CMS	CD4076BM	NSC	DL	LC04	37-9	
22	74-163N	CMS	CD40163BCJ	NSC	DL	LC11	132-107	132	74-173N	CMS	MM54C173D	NSC	DL	LC04	37-14	
23	74-163N	CMS	CD40163BCN	NSC	DL	LC11	132-108	133	74-173N	CMS	MM74C173N	NSC	DL	LC04	37-17	
24	74-163N	CMS	CD40163BD	RCA	MO	LC11	133-90	134	74-173N	CMS	SCL4076B	SSS	MO	LC04	37-23	
25	74-163N	CMS	CD40163BE	RCA	MO	LC11	133-91	135	74-173N	TTL	M74LS173AP	MITJ	DL	LC04	50-29	
26	74-163N	CMS	CD40163BF	RCA	MO	LC11	133-92	136	74-173N	TTL	SN54LS173AJ	TII	DL	LC04	50-17	
27	74-163N	CMS	CD40163BMJ	NSC	DL	LC11	132-109	137	74-173N	TTL	SN74LS173AJ	TII	DL	LC04	50-19	
28	74-163N	CMS	HCC40163BD	SGAI	DL	LC11	133-96	138	74-173N	TTL	SN74LS173AN	TII	DL	LC04	50-20	
29	74-163N	CMS	HCC40163BF	SGAI	DL	LC11	133-97	139	74-174	CMS	883/4174B	SSS	MO	LC04	37-22	
30	74-163N	CMS	HCF40163BE	SGAI	DL	LC11	133-101	140	74-174	TTL	S54S174F	SIC	DL	LC04	54-23	
31	74-163N	CMS	HCF40163BF	SGAI	DL	LC11	133-102	141	74-174N	CMS	MM54C174D	NSC	DL	LC04	37-15	
32	74-163N	CMS	HEF40163	RTCF	DL	LC11	134-28	142	74-174N	CMS	MM74C174N	NSC	DL	LC04	37-18	
33	74-163N	CMS	HEF40163B	VALG	DL	LC11	133-105	143	74-174N	CMS	SCL4174B	SSS	DL	LC04	36-13	
34	74-163N	CMS	HEF40163BDF	SIC	DL	LC11	134-29	144	74-174N	TTL	JANM38510/01701BEA	none	DL	LC04	52-1	
35	74-163N	CMS	HEF40163BPN	SIC	DL	LC11	134-30	145	74-174N	TTL	JANM38510/01701BEB	Δ	DL	LC04	52-2	
36	74-163N	CMS	MC14163BAL	MOTA	DL	LC11	133-41	146	74-174N	TTL	JANM38510/01701CEA	none	DL	LC04	52-5	
37	74-163N	CMS	MC14163BCL	MOTA	DL	LC11	133-42	147	74-174N	TTL	JANM38510/01701CEB	FSC	DL	LC04	52-6	
38	74-163N	CMS	MC14163BCP	MOTA	DL	LC11	133-43	148	74-174N	TTL	MB74LS174	FCAJ	DL	LC04	52-44	
39	74-163N	CMS	MM74C163N	NSC	DL	LC11	132-2	149	74-174N	TTL	MB74LS174M	FCAJ	DL	LC04	52-45	
40	74-163N	CMS	TC40163BP	TOSJ	DL	LC11	132-9	150	74-174N	TTL	N74LS174F	Δ	DL	LC04	53-93	
41	74-163N	CMS	40163BDC	FSC	DL	LC11	133-25	151	74-174N	TTL	N74LS174N	Δ	DL	LC04	53-94	
42	74-163N	CMS	40163BDM	FSC	DL	LC11	133-26	152	74-174N	TTL	N74S174F	Δ	DL	LC04	54-2	
43	74-163N	CMS	40163BPC	FSC	*	LC11	133-29	153	74-174N	TTL	N74S174N	Δ	DL	LC04	54-3	
44	74-163N	TTL	AM25LS163DC	AMD	DL	LC11	149-26	154	74-174N	TTL	N74174F	Δ	DL	LC04	54-13	
45	74-163N	TTL	AM25LS163DM	AMD	DL	LC11	149-27	155	74-174N	TTL	N74174N	Δ	DL	LC04	54-14	
46	74-163N	TTL	AM25LS163PC	AMD	DL	LC11	149-29	156	74-174N	TTL	SN54S174J	AMD	DL	LC04	53-7	
47	74-163N	TTL	DM74163N	NSC	DL	LC11	148-61	157	74-174N	TTL	SN74S174J	AMD	DL	LC04	53-19	
48	74-163N	TTL	JANM38510/01304BEA	none	DL	LC11	145-69	158	74-174N	TTL	SN74S174N	AMD	DL	LC04	53-20	
49	74-163N	TTL	JANM38510/01304BEB	Δ	DL	LC11	145-70	159	74-174N	TTL	S54LS174F	SIC	DL	LC04	53-39	
50	74-163N	TTL	JANM38510/01304CEA	none	DL	LC11	145-73	160	74-174N	TTL	S54174F	SIC	DL	LC04	54-27	
51	74-163N	TTL	JANM38510/01304CEB	NSC	DL	LC11	145-74	161	74-175	CMS	CD40175BD	RCA	DL	LC04	37-5	
52	74-163N	TTL	JANM38510/31512BEB	TII	DL	LC11	146-38	162	74-175	CMS	CD40175BE	RCA	DL	LC04	37-6	
53	74-163N	TTL	JANM38510/31512CEB	none	DL	LC11	146-39	163	74-175	CMS	CD40175BF	RCA	DL	LC04	37-7	
54	74-163N	TTL	MB74LS163A	FCAJ	DL	LC11	146-75	164	74-175	CMS	CD40175BH	RCA	CH	LC04	36-66	
55	74-163N	TTL	MB74LS163AM	FCAJ	DL	LC11	146-76	165	74-175	CMS	HEF40175BD	SIC	FP	LC04	36-4	
56	74-163N	TTL	M53363P	MITJ	DL	LC11	146-73	166	74-175	CMS	S54F74F	Δ	FP	LC04	36-5	
57	74-163N	TTL	M74LS163AP	MITJ	DL	LC11	146-71	167	74-175	CMS	TC40175BP	Δ	TOSJ	DL	LC04	36-12
58	74-163N	TTL	N74LS163AD	SIC	DL	LC11	148-64	168	74-175	TTL	SN74S175N	AMD	DL	LC04	53-22	
59	74-163N	TTL	N74LS163AN	Δ	DL	LC11	148-65	169	74-175	TTL	S54LS175F	SIC	DL	LC04	53-41	
60	74-163N	TTL	N74163F	Δ	DL	LC11	146-84	170	74-175	TTL	S54175F	SIC	DL	LC04	54-29	
61	74-163N	TTL	N74163N	Δ	DL	LC11	146-85	171	74-175N	TTL	CD40175BC	NSC	DL	LC04	34-37	
62	74-163N	TTL	SN54LS163AJ	Δ	DL	LC11	148-26	172	74-175N	TTL	CD40175BM	NSC	DL	LC04	34-38	
63	74-163N	TTL	SN54LS163J	AMD	DL	LC11	147-16	173	74-175N	CMS	HEF40175BDF	SIC	DL	LC04	36-2	
64	74-163N	TTL	SN54163J	Δ	DL	LC11	147-42	174	74-175N	CMS	HEF40175BPN	SIC	DL	LC04	36-3	
65	74-163N	TTL	SN74LS163AJ	Δ	DL	LC11	148-30	175	74-175N	CMS	HEF40175P	Δ	DL	LC04	37-12	
66	74-163N	TTL	SN74LS163AN	Δ	DL	LC11	148-31	176	74-175N	CMS	MM54C175D	NSC	DL	LC04	37-16	
67	74-163N	TTL	SN74LS163J	AMD	DL	LC11	147-28	177	74-175N	CMS	MM74C175N	NSC	DL	LC04	37-19	
68	74-163N	TTL	SN74LS163N	AMD	DL	LC11	147-29	178	74-175N	TTL	JANM38510/01702BEA	none	DL	LC04	52-9	
69	74-163N	TTL	SN74S163J	TII	DL	LC11	147-38	179	74-175N	TTL	JANM38510/01702BEB	Δ	DL	LC04	52-10	
70	74-163N	TTL	SN74S163N	TII	DL	LC11	147-39	180	74-175N	TTL	JANM38510/01702CEA	none	DL	LC04	52-13	
71	74-163N	TTL	SN74163J	Δ	DL	LC11	147-48	181	74-175N	TTL	JANM38510/01702CEB	FSC	DL	LC04	52-14	
72	74-163N	TTL	SN74163N	Δ	DL	LC11	147-49	182	74-175N	TTL	MB74LS175	FCAJ	DL	LC04	52-46	
73	74-163N	TTL	S54LS163AF	Δ	DL	LC11	148-68	183	74-175N	TTL	MB74LS175M	FCAJ	DL	LC04	52-47	
74	74-163N	TTL	S54163E	Δ	DL	LC11	151-34	184	74-175N	TTL	N74LS175F	Δ	DL	LC04	53-95	
75	74-163N	TTL	ZN54163E	FERB	DL	LC11	147-54	185	74-175N	TTL	N74LS175N	Δ	DL	LC04	53-96	
76	74-163N	TTL	ZN54163J	FERB	DL	LC11	147-55	186	74-175N	TTL	N74S175F	Δ	DL	LC04	54-4	
77	74-163N	TTL	ZN74163E	FERB	DL	LC11	147-60	187	74-175N	TTL	N74S175N	Δ	DL	LC04	54-5	
78	74-163N	TTL	ZN74163J	FERB	DL	LC11	147-61	188	74-175N	TTL	N74175F	Δ	DL	LC04	54-15	
79	74-163N	TTL	54F163DM	FSC	DL	LC11	149-78	189	74-175N	TTL	N74175N	Δ	DL	LC04	54-16	
80	74-163N	TTL	54LS163DM	FSC	DL	LC11	144-64	190	74-175N	TTL	SN54S175J	AMD	DL	LC04	53-9	
81	74-163N	TTL	54163DM	FSC	DL	LC11	148-4	191	74-175N	TTL	SN74S175J	AMD	DL	LC04	53-21	
82	74-163N	TTL	74F163DC	FSC	DL	LC11	149-82	192	74-175N	TTL	54F175DM	FSC	DL	LC04	51-9	
83	74-163N	TTL	74F163PC	FSC	*	LC11	149-83	193	74-175N	TTL	54LS175DM	FSC	DL	LC04	50-34	
84	74-163N	TTL	74LS163DC	FSC	DL	LC11	144-68	194	74-175N	TTL	54S175DM	FSC	DL			

FUNCTIONAL EQUIVALENCE MASTER INDEX

IN ORDER OF: (1)FUNCTIONAL NO. (2) TECH
(3)TYPE NUMBER

LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	
1	74-176N	TTL	N74LS196N	Δ	DL	LC11	142- 21	111	74-181	TTL	MB74LS181	FCAJ	DL	LC18	169- 56	
2	74-176N	TTL	N74S196F	Δ	DL	LC11	143- 22	112	74-181	TTL	MB74LS181M	FCAJ	DL	LC18	169- 57	
3	74-176N	TTL	N82590F	Δ	DL	LC11	142- 86	113	74-181	TTL	M5381P	MITJ	Δ	LC18	169- 32	
4	74-176N	TTL	N82590N	Δ	DL	LC11	142- 87	114	74-181	TTL	N74LS181F	Δ	DL	LC18	169- 33	
5	74-176N	TTL	N8280F	Δ	DL	LC11	140- 15	115	74-181	TTL	N74LS181N	Δ	DL	LC18	169- 34	
6	74-176N	TTL	N8280N	Δ	DL	LC11	140- 16	116	74-181	TTL	N74S181F	Δ	DL	LC18	169- 10	
7	74-176N	TTL	N8288F	Δ	DL	LC11	146- 80	117	74-181	TTL	N74S181N	Δ	DL	LC18	169- 11	
8	74-176N	TTL	N8290F	Δ	DL	LC11	141- 1	118	74-181	TTL	N74181F	Δ	DL	LC18	169- 35	
9	74-176N	TTL	N8290N	Δ	DL	LC11	141- 2	119	74-181	TTL	N74181N	Δ	DL	LC18	169- 36	
10	74-176N	TTL	N8292F	Δ	DL	LC11	139- 94	120	74-181	TTL	SFC4181E	THEF	DL	LC18	169- 44	
11	74-176N	TTL	SN54S196J	TII	DL	LC11	143- 25	121	74-181	TTL	SFC4181EM	THEF	DL	LC18	169- 45	
12	74-176N	TTL	SN54176J	TII	DL	LC11	152- 39	122	74-181	TTL	SFC4181ET	THEF	DL	LC18	169- 46	
13	74-176N	TTL	SN74S196J	TII	DL	LC11	143- 29	123	74-181	TTL	SFC4181JM	THEF	DL	LC18	169- 47	
14	74-176N	TTL	SN74S196N	TII	DL	LC11	143- 30	124	74-181	TTL	SFC4181KM	THEF	DL	LC18	169- 48	
15	74-176N	TTL	S54LS196F	Δ	DL	LC11	142- 24	125	74-181	TTL	SN54LS181J	MO	LC18	169- 58		
16	74-176N	TTL	S8280F	Δ	DL	LC11	140- 20	126	74-181	TTL	SN54181J	Δ	MO	LC18	169- 49	
17	74-176N	TTL	S8290F	Δ	DL	LC11	141- 5	127	74-181	TTL	SN74LS181J	Δ	MO	LC18	169- 60	
18	74-176N	TTL	S8292F	Δ	DL	LC11	139- 96	128	74-181	TTL	SN74LS181N	Δ	MO	LC18	169- 61	
19	74-176N	TTL	54176DM	FSC	DL	LC11	152- 71	129	74-181	TTL	SN74S181J	Δ	MO	LC18	169- 15	
20	74-176N	TTL	74LS196PC	FSC	DL	LC11	143- 4	130	74-181	TTL	SN74S181N	Δ	MO	LC18	169- 16	
21	74-176N	TTL	74176DC	FSC	DL	LC11	152- 73	131	74-181	TTL	SN74181J	Δ	MO	LC18	169- 51	
22	74-176N	TTL	74176PC	FSC	DL	LC11	152- 74	132	74-181	TTL	SN74181N	Δ	MO	LC18	169- 52	
23	74-176N	TTL	74196PC	FSC	FP	LC11	143- 9	133	74-181	TTL	S54LS181F	Δ	MO	LC18	169- 37	
24	74-177	TTL	SN74177N	TII	DL	LC11	150-105	134	74-181	TTL	S54LS181N	Δ	MO	LC18	169- 38	
25	74-177N	TTL	DM54197J	NSC	DL	LC11	142- 99	135	74-181	TTL	S54S181F	Δ	MO	LC18	169- 12	
26	74-177N	TTL	DM7281J	NSC	DL	LC11	143- 39	136	74-181	TTL	S54S181N	Δ	MO	LC18	168-106	
27	74-177N	TTL	DM74177J	NSC	DL	LC11	143- 44	137	74-181	TTL	S54181F	Δ	MO	LC18	169- 41	
28	74-177N	TTL	DM74177N	NSC	DL	LC11	143- 45	138	74-181	TTL	S54181N	Δ	MO	LC18	169- 42	
29	74-177N	TTL	DM74197N	NSC	DL	LC11	142-101	139	74-181	TTL	54F181DM	FSC	DL	LC18	168- 88	
30	74-177N	TTL	DM8281J	NSC	DL	LC11	143- 41	140	74-181	TTL	54S181DM	FSC	DL	LC18	168- 97	
31	74-177N	TTL	DM8281N	NSC	DL	LC11	143- 42	141	74-181	TTL	74F181DC	FSC	DL	LC18	168- 90	
32	74-177N	TTL	N74LS197D	SIC	DL	LC11	147- 91	142	74-181	TTL	74F181PC	FSC	DL	LC18	168- 91	
33	74-177N	TTL	N74LS197N	Δ	DL	LC11	147- 92	143	74-181	TTL	74LS181PC	FSC	DL	LC18	169- 54	
34	74-177N	TTL	N74S197F	Δ	DL	LC11	149- 59	144	74-181	TTL	74S181DC	FSC	DL	LC18	168- 99	
35	74-177N	TTL	N82591F	Δ	DL	LC11	149- 4	145	74-181	TTL	74S181PC	FSC	DL	LC18	168-100	
36	74-177N	TTL	N82591N	Δ	DL	LC11	149- 5	146	74-181	TTL	74181DC	FSC	DL	LC18	169- 6	
37	74-177N	TTL	N8281F	Δ	DL	LC11	145- 10	147	74-181	TTL	74181PC	FSC	DL	LC18	169- 7	
38	74-177N	TTL	N8281N	Δ	DL	LC11	145- 11	148	74-181	TTL	93L41DC	AMD	DL	LC18	169- 21	
39	74-177N	TTL	N8291F	Δ	DL	LC11	146- 11	149	74-181	TTL	93L41DM	AMD	DL	LC18	169- 22	
40	74-177N	TTL	N8291N	Δ	DL	LC11	146- 12	150	74-181	TTL	93L41PC	AMD	DL	LC18	169- 24	
41	74-177N	TTL	N8293F	Δ	DL	LC11	144- 85	151	74-181	TTL	93S41DC	FSC	DL	LC18	168-101	
42	74-177N	TTL	N8293N	Δ	DL	LC11	144- 86	152	74-181	TTL	93S41DM	FSC	DL	LC18	168-102	
43	74-177N	TTL	SN54LS197J	Δ	DL	LC11	149- 33	153	74-181	TTL	93S41PC	FSC	DL	LC18	168-104	
44	74-177N	TTL	SN54S197J	TII	DL	LC11	149- 62	154	74-181	TTL	9341DC	Δ	DL	LC18	169- 2	
45	74-177N	TTL	SN54177J	TII	DL	LC11	150-102	155	74-181	TTL	9341PC	Δ	DL	LC18	169- 5	
46	74-177N	TTL	SN54197J	TII	DL	LC11	149- 36	156	74-181N	CMS	SCL4581B	SSS	DL	LC18	168- 8	
47	74-177N	TTL	SN74LS197J	Δ	DL	LC11	149- 34	157	74-182	CMS	CD40182BD	RCA	MO	LC19	170- 19	
48	74-177N	TTL	SN74LS197N	Δ	DL	LC11	149- 35	158	74-182	CMS	CD40182BE	RCA	MO	LC19	170- 20	
49	74-177N	TTL	SN74S197J	TII	DL	LC11	149- 66	159	74-182	CMS	CD40182BF	RCA	MO	LC19	170- 21	
50	74-177N	TTL	SN74S197N	TII	DL	LC11	149- 67	160	74-182	CMS	MC14582BAL	MOTA	DL	LC19	170- 22	
51	74-177N	TTL	SN74177J	TII	DL	LC11	150-104	161	74-182	CMS	MC14582BCL	MOTA	DL	LC19	170- 23	
52	74-177N	TTL	SN74197J	TII	DL	LC11	149- 38	162	74-182	CMS	MC14582BCP	MOTA	DL	LC19	170- 24	
53	74-177N	TTL	SN74197N	TII	DL	LC11	149- 39	163	74-182	CMS	4582BPC	FSC	DL	LC19	170- 17	
54	74-177N	TTL	S54LS197F	Δ	DL	LC11	147- 93	164	74-182	CMS	883/4582B	SSS	MO	LC19	170- 3	
55	74-177N	TTL	S8281F	Δ	DL	LC11	145- 15	165	74-182	TTL	DM54182J	NSC	DL	LC19	170- 81	
56	74-177N	TTL	S8291F	Δ	DL	LC11	146- 13	166	74-182	TTL	JANM38510/01102BEA	none	DL	LC19	170- 94	
57	74-177N	TTL	S8293F	Δ	DL	LC11	144- 87	167	74-182	TTL	JANM38510/01102BEB	none	DL	LC19	170- 95	
58	74-177N	TTL	ZN54197E	FERB	DL	LC11	142-106	168	74-182	TTL	JANM38510/01102CEA	none	DL	LC19	170- 98	
59	74-177N	TTL	ZN54197J	FERB	DL	LC11	142-107	169	74-182	TTL	JANM38510/01102CEB	none	DL	LC19	170- 99	
60	74-177N	TTL	ZN74197E	FERB	DL	LC11	143- 1	170	74-182	TTL	MB459	FCAJ	DL	LC19	170- 56	
61	74-177N	TTL	ZN74197J	FERB	DL	LC11	143- 2	171	74-182	TTL	MB459M	FCAJ	DL	LC19	170- 57	
62	74-177N	TTL	54177DM	FSC	DL	LC11	144- 73	172	74-182	TTL	M5382P	MITJ	Δ	LC19	170- 82	
63	74-177N	TTL	54197DM	FSC	DL	LC11	149- 43	173	74-182	TTL	N74S182N	Δ	DL	LC19	170- 63	
64	74-177N	TTL	74LS197DC	FSC	DL	LC11	149- 40	174	74-182	TTL	N74182F	Δ	DL	LC19	170- 83	
65	74-177N	TTL	74LS197PC	FSC	DL	LC11	149- 41	175	74-182	TTL	N74182N	Δ	DL	LC19	170- 84	
66	74-177N	TTL	74177DC	FSC	DL	LC11	144- 75	176	74-182	TTL	SN54LS182J	MOTA	Δ	DL	LC19	170- 78
67	74-177N	TTL	74177PC	FSC	DL	LC11	144- 76	177	74-182	TTL	SN54S182J	Δ	DL	LC19	170- 66	
68	74-177N	TTL	74197DC	FSC	DL	LC11	149- 45	178	74-182	TTL	SN54182J	Δ	DL	LC19	170- 90	
69	74-177N	TTL	74197PC	FSC	FP	LC11	149- 46	179	74-182	TTL	SN74LS182J	MOTA	Δ	DL	LC19	170- 79
70	74-180N	TTL	DM74180J	NSC	DL	LC25	173- 44	180	74-182	TTL	SN74LS182N	MOTA	Δ	DL	LC19	170- 80
71	74-180N	TTL	DM74180N	NSC	DL	LC25	173- 45	181	74-182	TTL	SN74S182J	Δ	DL	LC19	170- 68	
72	74-180N	TTL	JANM38510/01901BCA	NSC	DL	LC25	172- 85	182	74-182	TTL	SN74S182N	TII	DL	LC19	170- 69	
73	74-180N	TTL	JANM38510/01901BCB	Δ	DL	LC25	172- 86	183	74-182	TTL	SN74182J	Δ	DL	LC19	170- 92	
74	74-180N	TTL	JANM38510/01901CCA	NSC	DL	LC25	172- 91	184	74-182	TTL	SN74182N	Δ	DL	LC19	170- 93	
75	74-180N	TTL	JANM38510/01901CCB	NSC	DL	LC25	172- 92	185	74-182	TTL	54F182DM	FSC	DL	LC19	170- 45	
76	74-180N	TTL	MB447	FCAJ	DL	LC25	172- 67	186	74-182	TTL	54S182DM	FSC	DL	LC19	170- 58	
77	74-180N	TTL	MB447M	FCAJ	DL	LC25	172- 68	187	74-182	TTL	74F182DC	FSC	DL	LC19	170- 47	
78	74-180N	TTL	M53380P	MITJ	DL	LC25	173- 47	188	74-182	TTL	74F182PC	FSC	DL	LC19	170- 48	
79	74-180N	TTL	N74180F	Δ	DL	LC25	173- 48	189	74-182	TTL	74S182DC	FSC	DL	LC19	170- 60	
80	74-180N	TTL	N74180N	Δ	DL	LC25	173- 49	190	74-182	TTL	74S182PC	FSC	DL	LC19	170- 61	
81	74-180N	TTL	SFC4180E	THEF	DL	LC25	172- 77	191	74-182	TTL	93S42DC	FSC	DL	LC19	170- 70	
82	74-180N	TTL	SFC4180EM	THEF	DL	LC25	172- 78	192	74-182	TTL	93S42DM	FSC	DL	LC19	170- 71	
83	74-180N	TTL	SFC4180ET	THEF	DL	LC25	172- 79	193	74-182	TTL	93S42PC	FSC	DL	LC19	170- 73	
84	74-180N	TTL	SFC4180JM	THEF	DL	LC25	172- 80	194	74-182	TTL	9342DM	AMD	DL	LC19	170- 74	
85	74-180N	TTL	SFC4180KM	THEF	DL	LC2										

FUNCTIONAL EQUIVALENCE MASTER INDEX

IN ORDER OF: (1)FUNCTIONAL NO. (2) TECH
(3)TYPE NUMBER

LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE
1	74-190N	TTL	MB457M	FCAJ	DL	LC11	142- 19	111	74-192N	TTL	S54LS192F	Δ	DL	LC11	152- 34
2	74-190N	TTL	MB74LS190	FCAJ	DL	LC11	140- 76	112	74-192N	TTL	S54192E	Δ	DL	LC11	151- 36
3	74-190N	TTL	MB74LS190M	FCAJ	DL	LC11	140- 77	113	74-192N	TTL	S54192F	Δ	DL	LC11	150- 80
4	74-190N	TTL	M53390P	MITJ	DL	LC11	141- 37	114	74-192N	TTL	ZN54192E	FERB	DL	LC11	142- 58
5	74-190N	TTL	M53391P	MITJ	DL	LC11	146- 74	115	74-192N	TTL	ZN54192J	FERB	DL	LC11	142- 59
6	74-190N	TTL	M74LS190P	MITJ	DL	LC11	144- 7	116	74-192N	TTL	ZN74192E	FERB	DL	LC11	142- 60
7	74-190N	TTL	N74LS190F	Δ	DL	LC11	143- 94	117	74-192N	TTL	ZN74192J	FERB	DL	LC11	142- 61
8	74-190N	TTL	N74LS190N	Δ	DL	LC11	143- 95	118	74-192N	TTL	54LS192DM	FSC	DL	LC11	151- 65
9	74-190N	TTL	N74190F	Δ	DL	LC11	143- 96	119	74-192N	TTL	54192DM	FSC	DL	LC11	142- 2
10	74-190N	TTL	N74190N	Δ	DL	LC11	143- 97	120	74-192N	TTL	74LS192DC	FSC	DL	LC11	151- 67
11	74-190N	TTL	SN54LS190J	Δ	DL	LC11	141- 70	121	74-192N	TTL	74192DC	FSC	DL	LC11	142- 3
12	74-190N	TTL	SN54190J	TII	DL	LC11	141- 93	122	74-192N	TTL	74192PC	FSC	DL	LC11	142- 4
13	74-190N	TTL	SN74LS190J	Δ	DL	LC11	141- 81	123	74-192N	TTL	93L60DC	AMD	DL	LC11	141- 22
14	74-190N	TTL	SN74LS190N	Δ	DL	LC11	141- 82	124	74-192N	TTL	93L60DM	AMD	DL	LC11	141- 23
15	74-190N	TTL	SN74190J	TII	DL	LC11	141- 99	125	74-192N	TTL	93L60FM	AMD	DL	LC11	141- 24
16	74-190N	TTL	SN74190N	TII	DL	LC11	141-100	126	74-192N	TTL	9360DC	AMD	DL	LC11	142- 33
17	74-190N	TTL	S54LS190F	Δ	DL	LC11	143- 98	127	74-192N	TTL	9360DM	AMD	DL	LC11	142- 34
18	74-190N	TTL	S54190F	Δ	DL	LC11	141- 7	128	74-192N	TTL	9360PC	AMD	DL	LC11	142- 36
19	74-190N	TTL	74LS190PC	FSC	DL	LC11	151- 53	129	74-193	CMS	HEF40193BTD	SIC	FP	LC11	134- 81
20	74-190N	TTL	74190PC	FSC	DL	LC11	141- 29	130	74-193	CMS	SCL4193B	SSS	MO	LC11	133- 82
21	74-191	TTL	SN54ALS191J	MOTA	DL	LC11	144- 36	131	74-193	CMS	40193BDC	NSC	DL	LC11	132- 48
22	74-191	TTL	SN54ALS191N	MOTA	DL	LC11	144- 37	132	74-193	CMS	40193BDM	FSC	DL	LC11	132- 49
23	74-191	TTL	SN74ALS191J	MOTA	DL	LC11	144- 42	133	74-193	CMS	40193BPC	FSC	DL	LC11	132- 52
24	74-191	TTL	SN74ALS191N	MOTA	DL	LC11	144- 43	134	74-193	CMS	893/4193B	SSS	MO	LC11	133- 72
25	74-191N	TTL	AM25LS191DC	AMD	DL	LC11	147- 76	135	74-193	TTL	SN54ALS193J	MOTA	DL	LC11	147- 12
26	74-191N	TTL	AM25LS191DM	AMD	DL	LC11	147- 77	136	74-193	TTL	SN74ALS193N	MOTA	DL	LC11	147- 13
27	74-191N	TTL	AM25LS191PC	AMD	DL	LC11	147- 79	137	74-193	TTL	SN74ALS193J	MOTA	DL	LC11	147- 24
28	74-191N	TTL	DM74191J	NSC	DL	LC11	146- 57	138	74-193	TTL	SN74ALS193N	MOTA	DL	LC11	147- 25
29	74-191N	TTL	DM74191N	NSC	DL	LC11	146- 58	139	74-193N	CMS	CD40193BC	NSC	DL	LC11	133- 13
30	74-191N	TTL	JANM38510/31509BEB	TII	DL	LC11	150- 51	140	74-193N	CMS	CD40193BCN	NSC	DL	LC11	133- 14
31	74-191N	TTL	JANM38510/31509CEB	TII	DL	LC11	150- 52	141	74-193N	CMS	CD40193BD	RCA	MO	LC11	133- 74
32	74-191N	TTL	MB74LS191	FCAJ	DL	LC11	146- 9	142	74-193N	CMS	CD40193BE	RCA	MO	LC11	133- 75
33	74-191N	TTL	M74LS191P	MITJ	DL	LC11	150- 82	143	74-193N	CMS	CD40193BF	RCA	MO	LC11	133- 76
34	74-191N	TTL	N74LS191D	SIC	DL	LC11	150- 55	144	74-193N	CMS	CD40193BMJ	NSC	DL	LC11	133- 110
35	74-191N	TTL	N74LS191N	Δ	DL	LC11	150- 56	145	74-193N	CMS	HEF40193	RTCF	DL	LC11	133- 115
36	74-191N	TTL	N74191F	Δ	DL	LC11	150- 57	146	74-193N	CMS	HEF40193BDF	SIC	DL	LC11	134- 1
37	74-191N	TTL	N74191N	Δ	DL	LC11	150- 58	147	74-193N	CMS	HEF40193BPN	SIC	DL	LC11	134- 2
38	74-191N	TTL	SN54LS191J	Δ	DL	LC11	147- 19	148	74-193N	CMS	HEF40193P	NSC	DL	LC11	133- 33
39	74-191N	TTL	SN54191J	TII	DL	LC11	147- 44	149	74-193N	CMS	MM54C193D	NSC	DL	LC11	132- 24
40	74-191N	TTL	SN74LS191J	Δ	DL	LC11	147- 32	150	74-193N	CMS	MM74C193N	NSC	DL	LC11	132- 25
41	74-191N	TTL	SN74LS191N	Δ	DL	LC11	147- 33	151	74-193N	CMS	MSM40193	OKUJ	DL	LC11	132- 77
42	74-191N	TTL	SN74191N	TII	DL	LC11	147- 50	152	74-193N	CMS	TC40193BP	TOSJ	DL	LC11	133- 12
43	74-191N	TTL	SN74191N	TII	DL	LC11	147- 51	153	74-193N	TTL	AM25LS193DC	AMD	DL	LC11	149- 6
44	74-191N	TTL	S54LS191F	Δ	DL	LC11	150- 59	154	74-193N	TTL	AM25LS193DM	AMD	DL	LC11	149- 7
45	74-191N	TTL	S54191F	Δ	DL	LC11	143-100	155	74-193N	TTL	AM25LS193PC	AMD	DL	LC11	149- 9
46	74-191N	TTL	ZN54191E	FERB	DL	LC11	147- 56	156	74-193N	TTL	DM54L193J	NSC	DL	LC11	145- 18
47	74-191N	TTL	ZN54191J	FERB	DL	LC11	147- 57	157	74-193N	TTL	DM74L193N	NSC	DL	LC11	145- 21
48	74-191N	TTL	ZN74191E	FERB	DL	LC11	147- 62	158	74-193N	TTL	DM74193J	NSC	DL	LC11	147- 85
49	74-191N	TTL	ZN74191J	FERB	DL	LC11	147- 63	159	74-193N	TTL	DM74193N	NSC	DL	LC11	147- 86
50	74-191N	TTL	54LS191DM	FSC	DL	LC11	148- 43	160	74-193N	TTL	DM7563J	NSC	DL	LC11	147- 80
51	74-191N	TTL	54191DM	FSC	DL	LC11	146- 40	161	74-193N	TTL	DM8563J	NSC	DL	LC11	147- 82
52	74-191N	TTL	74LS191DC	FSC	DL	LC11	148- 45	162	74-193N	TTL	DM8563N	NSC	DL	LC11	147- 85
53	74-191N	TTL	74LS191PC	FSC	DL	LC11	148- 46	163	74-193N	TTL	JANM38510/01309BEA	SIC	DL	LC11	146- 1
54	74-191N	TTL	74191DC	FSC	DL	LC11	146- 45	164	74-193N	TTL	JANM38510/01309BEB	Δ	DL	LC11	146- 2
55	74-191N	TTL	74191PC	FSC	DL	LC11	146- 46	165	74-193N	TTL	JANM38510/01309CEA	none	DL	LC11	146- 5
56	74-192	CMS	HEF40192BTD	SIC	FP	LC11	136- 65	166	74-193N	TTL	JANM38510/01309CEB	none	DL	LC11	146- 6
57	74-192	CMS	MM74C192N	NSC	DL	LC11	135- 85	167	74-193N	TTL	JANM38510/31508BEB	TII	DL	LC11	150- 61
58	74-192	CMS	SCL4192B	SSS	MO	LC11	130- 50	168	74-193N	TTL	JANM38510/31508CEB	none	DL	LC11	150- 62
59	74-192	CMS	893/4192B	SSS	MO	LC11	130- 40	169	74-193N	TTL	MB74LS193	FCAJ	DL	LC11	151- 31
60	74-192	CMS	SN54ALS192J	MOTA	DL	LC11	144- 38	170	74-193N	TTL	MB74LS193M	FCAJ	DL	LC11	151- 32
61	74-192	TTL	SN54ALS192N	MOTA	DL	LC11	144- 39	171	74-193N	TTL	M53393P	MITJ	DL	LC11	144- 71
62	74-192	TTL	SN74ALS192J	MOTA	DL	LC11	144- 44	172	74-193N	TTL	M74LS192P	MITJ	DL	LC11	144- 8
63	74-192	TTL	SN74ALS192N	MOTA	DL	LC11	144- 45	173	74-193N	TTL	M74LS193P	MITJ	DL	LC11	150- 83
64	74-192	TTL	74LS192PC	FSC	DL	LC11	151- 68	174	74-193N	TTL	N74LS193D	SIC	DL	LC11	150- 69
65	74-192N	CMS	CD40192BCJ	NSC	DL	LC11	136- 7	175	74-193N	TTL	N74LS193N	Δ	DL	LC11	150- 70
66	74-192N	CMS	CD40192BCN	NSC	DL	LC11	136- 8	176	74-193N	TTL	N74193F	Δ	DL	LC11	150- 73
67	74-192N	CMS	CD40192BD	RCA	MO	LC11	130- 42	177	74-193N	TTL	N74193N	Δ	DL	LC11	150- 74
68	74-192N	CMS	CD40192BE	RCA	MO	LC11	130- 43	178	74-193N	TTL	SFC4193E	THEF	DL	LC11	148- 21
69	74-192N	CMS	CD40192BF	RCA	MO	LC11	130- 44	179	74-193N	TTL	SFC4193EM	THEF	DL	LC11	148- 22
70	74-192N	CMS	CD40192BMJ	NSC	DL	LC11	136- 9	180	74-193N	TTL	SFC4193ET	THEF	DL	LC11	148- 23
71	74-192N	CMS	HEF40192	RTCF	DL	LC11	136- 34	181	74-193N	TTL	SN54LS193J	Δ	DL	LC11	147- 95
72	74-192N	CMS	HEF40192BDF	SIC	DL	LC11	136- 35	182	74-193N	TTL	SN54L193J	TII	DL	LC11	144- 89
73	74-192N	CMS	HEF40192BPN	SIC	DL	LC11	136- 36	183	74-193N	TTL	SN54193J	Δ	DL	LC11	148- 35
74	74-192N	CMS	HEF40192P	Δ	DL	LC11	130- 24	184	74-193N	TTL	SN74LS193J	Δ	DL	LC11	147- 98
75	74-192N	CMS	MM54C192D	NSC	DL	LC11	135- 84	185	74-193N	TTL	SN74LS193N	Δ	DL	LC11	147- 99
76	74-192N	CMS	MSM40192	OKUJ	DL	LC11	129-103	186	74-193N	TTL	SN74193J	Δ	DL	LC11	148- 37
77	74-192N	CMS	40192BDC	FSC	DL	LC11	129- 83	187	74-193N	TTL	SN74193N	Δ	DL	LC11	148- 38
78	74-192N	CMS	40192BDM	FSC	DL	LC11	129- 84	188	74-193N	TTL	S54LS193F	Δ	DL	LC11	150- 77
79	74-192N	CMS	40192BPC	FSC	DL	LC11	129- 87	189	74-193N	TTL	S54193E	Δ	DL	LC11	147- 10
80	74-192N	TTL	AM25LS192DC	AMD	DL	LC11	142- 88	190	74-193N	TTL	S54193F	Δ	DL	LC11	152- 36
81	74-192N	TTL	AM25LS192DM	AMD	DL	LC11	142- 89	191	74-193N	TTL	ZN54193E	FERB	DL	LC11	148- 39
82	74-192N	TTL	AM25LS192PC	AMD	DL	LC11	142- 91	192	74-193N	TTL	ZN54193J	FERB	DL	LC11	148- 40
83	74-192N	TTL	DM54L192J	NSC	DL	LC11	140- 24	193	74-193N	TTL	ZN74193E	FERB	DL	LC11	148- 41
84	74-192N	TTL													

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IN ORDER OF: (1)FUNCTIONAL NO. (2) TECH
(3)TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	
1	74-221	TTL	SN74221J	Δ	DL	LC10	127- 68	111	74-273N	TTL	54LS273DM	FSC	DL	LC04	50- 4	
2	74-221	TTL	SN74221N	Δ	DL	LC10	127- 69	112	74-273N	TTL	74LS273DC	FSC	DL	LC04	50- 6	
3	74-221	TTL	S54LS221F	Δ	DL	LC10	127- 3	113	74-273N	TTL	74LS273PC	FSC	DL	LC04	50- 7	
4	74-221	TTL	S54221F	Δ	DL	LC10	127- 13	114	74S274	TTL	SN74S274J	TII	DL	LC16	163- 56	
5	74S240N	PCH	SN54LS240J	Δ	MMI	DL	LC06	117-100	115	74S274	TTL	SN74S274N	TII	DL	LC16	163- 57
6	74S240N	PCH	SN54S240J	Δ	MMI	DL	LC06	117-102	116	74S275	MON	SN54LS275J	TII	DL	LC27	182- 84
7	74S240N	PCH	SN74LS240J	MMI	DL	LC06	117-105	117	74S275	MON	SN74LS275J	TII	DL	LC27	182- 88	
8	74S240N	PCH	SN74S240J	MMI	DL	LC06	117-108	118	74S275	MON	SN74LS275N	TII	DL	LC27	182- 89	
9	74S240N	TTL	SN74S240N	TII	DL	LC05	109- 22	119	74S275	MON	SN74S275J	TII	DL	LC27	182- 90	
10	74S241	PCH	SN54S241J	MMI	DL	LC06	117-103	120	74S275	MON	SN74S275N	TII	DL	LC27	182- 91	
11	74S241N	PCH	SN54LS241J	MMI	DL	LC06	117-101	121	74-276N	TTL	SN54276J	TII	DL	LC04	47- 12	
12	74S241N	PCH	SN74LS241J	MMI	DL	LC06	117-106	122	74-276N	TTL	SN74276J	TII	DL	LC04	47- 22	
13	74S241N	PCH	SN74S241J	MMI	DL	LC06	117-109	123	74-276N	TTL	SN74276N	TII	DL	LC04	47- 23	
14	74S241N	TTL	SN74S241N	TII	DL	LC05	109- 23	124	74-279	TTL	54LS279FM	FSC	FL	LC26	177- 22	
15	74LS244	PCH	SN54S244J	MMI	DL	LC06	117-104	125	74-279N	TTL	M74LS279P	MITJ	DL	LC26	177- 25	
16	74LS244	PCH	SN74S244J	MMI	DL	LC06	117-110	126	74-279N	TTL	N74LS279F	Δ	DL	LC26	177- 26	
17	74LS244N	PCH	SN74LS244J	MMI	DL	LC06	117-107	127	74-279N	TTL	N74LS279N	Δ	DL	LC26	177- 27	
18	74-246	TTL	M74LS247P	MITJ	DL	LC06	120- 92	128	74-279N	TTL	N74279F	Δ	DL	LC26	177- 28	
19	74-248N	TTL	M74LS248P	MITJ	DL	LC06	120- 93	129	74-279N	TTL	N74279N	Δ	DL	LC26	177- 29	
20	74LS256N	TTL	N74LS256F	Δ	DL	LC26	179- 7	130	74-279N	TTL	SN54LS279J	Δ	DL	LC26	177- 34	
21	74LS256N	TTL	N74LS256N	Δ	DL	LC26	179- 8	131	74-279N	TTL	SN54279J	TII	DL	LC26	177- 17	
22	74LS256N	TTL	SN54LS256J	MOTA	DL	LC26	178- 86	132	74-279N	TTL	SN74LS279J	Δ	DL	LC26	177- 36	
23	74LS256N	TTL	SN74LS256J	MOTA	DL	LC26	178- 87	133	74-279N	TTL	SN74LS279N	Δ	DL	LC26	177- 37	
24	74LS256N	TTL	SN74LS256N	MOTA	DL	LC26	178- 88	134	74-279N	TTL	SN74279J	TII	DL	LC26	177- 19	
25	74LS256F	TTL	S54LS256F	Δ	DL	LC26	179- 9	135	74-279N	TTL	SN74279N	TII	DL	LC26	177- 20	
26	74LS256N	TTL	54LS256DM	FSC	DL	LC26	178- 66	136	74-279N	TTL	S54LS279F	Δ	DL	LC26	177- 30	
27	74LS256N	TTL	74LS256DC	FSC	DL	LC26	178- 68	137	74-279N	TTL	S54279F	Δ	DL	LC26	177- 32	
28	74-259	TTL	N74LS259F	Δ	DL	LC26	180-104	138	74-279N	TTL	54LS279DM	FSC	DL	LC26	177- 21	
29	74-259N	TTL	AM93L34DC	AMD	DL	LC26	181- 9	139	74-279N	TTL	74LS279DC	FSC	DL	LC26	177- 23	
30	74-259N	TTL	AM93L34DC	AMD	DL	LC26	181- 10	140	74-279N	TTL	74LS279PC	FSC	*	LC26	177- 24	
31	74-259N	TTL	AM93L34PC	AMD	DL	LC26	181- 12	141	74-279N	TTL	74279PC	FSC	*	LC26	178- 65	
32	74-259N	TTL	AM9334DC	AMD	DL	LC26	180- 62	142	74S280	TTL	N74F280AN	SIC	DL	LC25	172- 95	
33	74-259N	TTL	AM9334DM	AMD	DL	LC26	180- 63	143	74S280	TTL	S54F280AW	SIC	DL	LC25	172- 97	
34	74-259N	TTL	AM9334PC	AMD	DL	LC26	180- 65	144	74S280	TTL	S54S280F	Δ	DL	LC25	173- 4	
35	74-259N	TTL	DM8334C	NSC	DL	LC26	180- 66	145	74S280N	TTL	MB74LS280	FCAJ	DL	LC25	173- 29	
36	74-259N	TTL	DM8334N	NSC	DL	LC26	180- 67	146	74S280N	TTL	MB74LS280M	FCAJ	DL	LC25	173- 30	
37	74-259N	TTL	DM9334J	NSC	DL	LC26	180- 69	147	74S280N	TTL	M74LS280P	MITJ	DL	LC25	173- 28	
38	74-259N	TTL	M74LS259P	MITJ	DL	LC26	180-103	148	74S280N	TTL	N74S280F	Δ	DL	LC25	173- 2	
39	74-259N	TTL	N74LS259N	Δ	DL	LC26	180-105	149	74S280N	TTL	N74S280N	Δ	DL	LC25	173- 3	
40	74-259N	TTL	N9334F	Δ	DL	LC26	180- 71	150	74S280N	TTL	SN54LS280J	TII	DL	LC25	173- 31	
41	74-259N	TTL	N9334N	Δ	DL	LC26	180- 72	151	74S280N	TTL	SN54S280J	TII	DL	LC25	173- 6	
42	74-259N	TTL	SN54LS259J	Δ	DL	LC26	180- 8	152	74S280N	TTL	SN74LS280J	Δ	DL	LC25	173- 33	
43	74-259N	TTL	SN54259J	TII	DL	LC26	180- 48	153	74S280N	TTL	SN74LS280N	Δ	DL	LC25	173- 34	
44	74-259N	TTL	SN74LS259J	Δ	DL	LC26	180- 12	154	74S280N	TTL	SN74S280J	TII	DL	LC25	173- 8	
45	74-259N	TTL	SN74LS259N	Δ	DL	LC26	180- 13	155	74S280N	TTL	SN74S280N	TII	DL	LC25	173- 9	
46	74-259N	TTL	SN74259J	TII	DL	LC26	180- 50	156	74S280N	TTL	54F280DM	FSC	DL	LC25	173- 10	
47	74-259N	TTL	SN74259N	TII	DL	LC26	180- 51	157	74S280N	TTL	54S280DM	FSC	DL	LC25	172- 98	
48	74-259N	TTL	S54LS259F	Δ	DL	LC26	180-106	158	74S280N	TTL	74F280DC	FSC	DL	LC25	173- 12	
49	74-259N	TTL	S9334F	Δ	DL	LC26	180- 73	159	74S280N	TTL	74F280PC	FSC	DL	LC25	173- 13	
50	74-259N	TTL	54LS259DM	FSC	DL	LC26	180- 54	160	74-283	TTL	JANM38510/31202BEA	none	DL	LC15	162- 6	
51	74-259N	TTL	74LS259DC	FSC	DL	LC26	180- 56	161	74-283	TTL	JANM38510/31202BEB	FSC	DL	LC15	162- 7	
52	74-259N	TTL	74LS259PC	FSC	*	LC26	180- 57	162	74-283	TTL	JANM38510/31202CEA	none	DL	LC15	162- 10	
53	74-259N	TTL	93L34DC	FSC	DL	LC26	180- 96	163	74-283	TTL	JANM38510/31202CEB	FSC	DL	LC15	162- 11	
54	74-259N	TTL	93L34DM	FSC	DL	LC26	180- 97	164	74-283	TTL	MB74LS283	FCAJ	DL	LC15	161- 44	
55	74-259N	TTL	93L34PC	FSC	*	LC26	180- 99	165	74-283	TTL	MB74LS283M	FCAJ	DL	LC15	161- 45	
56	74-259N	TTL	9334DC	Δ	DL	LC26	180- 34	166	74-283	TTL	N74LS283D	SIC	DL	LC15	160- 40	
57	74-259N	TTL	9334DM	Δ	AMD	DL	LC26	180- 35	167	74-283	TTL	N74LS283N	Δ	DL	LC15	161- 49
58	74-259N	TTL	9334DM#	FSC	DL	LC26	181- 4	168	74-283	TTL	SFC4283LSE	THEF	DL	LC15	161- 56	
59	74-259N	TTL	9334PC	Δ	*	LC26	180- 37	169	74-283	TTL	SFC4283LSEM	THEF	DL	LC15	161- 57	
60	74-260N	TTL	N74S260D	SIC	DL	LC05	92- 28	170	74-283	TTL	SN54LS283J	Δ	DL	LC15	161- 60	
61	74S260N	TTL	N74LS260D	Δ	DL	LC05	92- 24	171	74-283	TTL	SN54S283J	TII	DL	LC15	161- 28	
62	74S260N	TTL	N74LS260N	Δ	DL	LC05	92- 25	172	74-283	TTL	SN54283J	TII	DL	LC15	161- 70	
63	74S260N	TTL	N74S260N	Δ	DL	LC05	92- 29	173	74-283	TTL	SN74LS283J	Δ	DL	LC15	161- 64	
64	74S260N	TTL	SN54LS260J	MOTA	DL	LC05	90- 47	174	74-283	TTL	SN74LS283N	Δ	DL	LC15	161- 65	
65	74S260N	TTL	SN54S260J	TII	DL	LC05	92- 68	175	74-283	TTL	SN74S283J	TII	DL	LC15	161- 29	
66	74S260N	TTL	SN74LS260J	MOTA	DL	LC05	92- 90	176	74-283	TTL	SN74283J	TII	DL	LC15	161- 72	
67	74S260N	TTL	SN74LS260N	MOTA	DL	LC05	92- 91	177	74-283	TTL	SN74283N	TII	DL	LC15	161- 73	
68	74S260N	TTL	SN74S260J	TII	DL	LC05	92- 94	178	74-283	TTL	S54LS283F	Δ	DL	LC15	161- 54	
69	74S260N	TTL	SN74S260N	TII	DL	LC05	92- 95	179	74-283	TTL	T74LS283B1	Δ	SGAI	DL	LC15	161- 78
70	74S260N	TTL	S54LS260F	Δ	DL	LC05	90- 35	180	74-283	TTL	54F283DM	FSC	DL	LC15	161- 15	
71	74S260N	TTL	S54S260F	Δ	DL	LC05	92- 42	181	74-283	TTL	54LS283DM	FSC	*	LC15	160- 30	
72	74S260N	TTL	54LS260DM	FSC	DL	LC05	89- 86	182	74-283	TTL	74F283DC	FSC	DL	LC15	161- 17	
73	74S260N	TTL	54S260DM	FSC	DL	LC05	90- 52	183	74-283	TTL	74F283PC	FSC	*	LC15	161- 18	
74	74S260N	TTL	74LS260DC	FSC	DL	LC05	90- 61	184	74-283	TTL	74LS283DC	FSC	DL	LC15	160- 34	
75	74S260N	TTL	74LS260PC	FSC	DL	LC05	90- 62	185	74-283	TTL	74LS283PC	FSC	DL	LC15	160- 35	
76	74LS261	TTL	N74LS261F	Δ	DL	LC16	163- 25	186	74-283	TTL	74283DC	FSC	DL	LC15	161- 38	
77	74LS261	TTL	N74LS261N	Δ	DL	LC16	163- 26	187	74-283	TTL	74283PC	FSC	*	LC15	161- 39	
78	74LS261	TTL	SN54LS261J	TII	DL	LC16	163- 29	188	74-284	TTL	SN54284J	TII	DL	LC16	163- 48	
79	74LS261	TTL	SN74LS261J	TII	DL	LC16	163- 31	189	74-284	TTL	SN74284J	TII	DL	LC16	163- 52	
80	74LS261	TTL	SN74LS261N	TII	DL	LC16	163- 32	190	74-284	TTL	SN74284N	TII	DL	LC16	163- 53	
81	74LS261	TTL	S54LS261F	Δ	DL	LC16	163- 27	191	74-285	TTL	SN54285J	TII	DL	LC16	163- 50	
82	74-265N	MON	SN54265J	TII	DL	LC27	182- 23	192	74-285	TTL	SN74285J	TII	DL	LC16	163- 54	
83	74-265N	MON	SN74265J	TII	DL	LC27	182- 25	193	74-285	TTL	SN74285N	TII	DL	LC16	163- 55	
84	74-265N	MON	SN74265N	TII	DL	LC27	182- 26	194	74-290	TTL	N74LS290N	Δ	DL	LC11</		

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(3)TYPE NUMBER

LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	LINE No.	FUNCTIONAL NUMBER	TECH	TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE
1	74-293N	TTL	SN74LS293N	TII	DL	LC11	150-33	111	74S381	TTL	SN74LS381N	AMD	DL	LC18	168-67
2	74-293N	TTL	S54LS293F	Δ	DL	LC11	145-59	112	74S381	TTL	SN74S381J	MMI	DL	LC18	168-69
3	74-293N	TTL	54LS293DM	FSC	DL	LC11	149-18	113	74S381	TTL	SN74S381N	MMI	DL	LC18	168-79
4	74-293N	TTL	74LS293DC	FSC	DL	LC11	149-20	114	74LS382	TTL	AM25LS2517DC	AMD	DL	LC18	168-60
5	74-293N	TTL	74LS293PC	FSC	DL	LC11	149-21	115	74LS382	TTL	AM25LS2517DM	AMD	DL	LC18	168-61
6	74-293N	TTL	74293PC	FSC	DL	LC11	148-7	116	74LS382	TTL	AM25LS2517PC	AMD	DL	LC18	168-63
7	74LS294	TTL	SN74LS294J	TII	DL	LC13	157-109	117	74LS382	TTL	SN54LS382J	TII	DL	LC18	168-70
8	74LS294	TTL	SN74LS294N	TII	DL	LC13	157-110	118	74LS382	TTL	SN74LS382J	TII	DL	LC18	168-71
9	74LS320	TTL	SN54LS320J	TII	DL	LC12	155-8	119	74LS382	TTL	SN74LS382N	TII	DL	LC18	168-72
10	74LS320	TTL	SN74LS320J	TII	DL	LC12	155-12	120	74LS384	TTL	AM25LS14DC	AMD	DL	LC16	163-85
11	74LS320	TTL	SN74LS320N	TII	DL	LC12	155-13	121	74LS384	TTL	AM25LS14DM	AMD	DL	LC16	163-86
12	74LS321	TTL	SN54LS321J	TII	DL	LC12	155-10	122	74LS384	TTL	AM25LS14PC	AMD	DL	LC16	163-88
13	74LS321	TTL	SN74LS321J	TII	DL	LC12	155-14	123	74LS384	TTL	SN54LS384J	TII	DL	LC16	163-79
14	74LS321	TTL	SN74LS321N	TII	DL	LC12	155-15	124	74LS384	TTL	SN74LS384J	TII	DL	LC16	163-81
15	74LS324	TTL	SN54LS324J	TII	DL	LC12	155-24	125	74LS384	TTL	SN74LS384N	TII	DL	LC16	163-82
16	74LS325	TTL	SN54LS325J	TII	DL	LC12	155-18	126	74LS384	TTL	54LS384DM	FSC	DL	LC16	163-83
17	74LS326	TTL	SN54LS326J	TII	DL	LC12	155-20	127	74LS385N	TTL	AM25LS15DC	AMD	DL	LC15	162-41
18	74LS327	TTL	SN54LS327J	TII	DL	LC12	155-22	128	74LS385N	TTL	AM25LS15DM	AMD	DL	LC15	162-42
19	74LS363	CMS	MM74CS373N	NSC	DL	LC26	175-56	129	74LS385N	TTL	AM25LS15PC	AMD	DL	LC15	162-44
20	74LS363	TTL	N74S373F	Δ	DL	LC26	179-75	130	74LS385N	TTL	SN54LS385J	Δ	DL	LC15	162-45
21	74LS363	TTL	N74S373N	MULB	DL	LC26	179-76	131	74LS385N	TTL	SN74LS385J	Δ	DL	LC15	162-46
22	74LS363N	TTL	AMZ8133	AMD	DL	LC26	179-90	132	74LS385N	TTL	SN74LS385N	Δ	DL	LC15	162-47
23	74LS363N	TTL	AM25LS373DC	AMD	DL	LC26	180-76	133	74-390	TTL	S54LS390F	Δ	DL	LC11	141-3
24	74LS363N	TTL	AM25LS373DM	AMD	DL	LC26	180-77	134	74-390N	TTL	M74LS390P	MITJ	DL	LC11	143-77
25	74LS363N	TTL	AM25LS373PC	AMD	DL	LC26	180-79	135	74-390	TTL	N74LS390D	SIC	DL	LC11	140-78
26	74LS363N	TTL	AM54LS373J	AMD	DL	LC26	180-84	136	74-390N	TTL	N74LS390N	Δ	DL	LC11	140-79
27	74LS363N	TTL	AM74LS373J	AMD	DL	LC26	180-88	137	74-390N	TTL	SN54LS390J	Δ	DL	LC11	141-9
28	74LS363N	TTL	AM74LS373N	AMD	DL	LC26	180-89	138	74-390N	TTL	SN54390J	TII	DL	LC11	142-71
29	74LS363N	TTL	N74LS363F	Δ	DL	LC26	180-59	139	74-390N	TTL	SN74LS390J	Δ	DL	LC11	141-13
30	74LS363N	TTL	N74LS363N	Δ	DL	LC26	180-60	140	74-390N	TTL	SN74LS390N	Δ	DL	LC11	141-14
31	74LS363N	TTL	N74LS373D	SIC	DL	LC26	181-6	141	74-390N	TTL	SN74390J	TII	DL	LC11	142-73
32	74LS363N	TTL	N74LS373N	Δ	DL	LC26	181-7	142	74-390N	TTL	SN74390N	TII	DL	LC11	142-74
33	74LS363N	TTL	SN54LS373J	Δ	DL	LC26	180-93	143	74-390N	TTL	54LS390DM	FSC	DL	LC11	140-56
34	74LS363N	TTL	SN54LS373J	Δ	DL	LC26	179-87	144	74-390N	TTL	74LS390DC	FSC	DL	LC11	140-58
35	74LS363N	TTL	SN74LS373J	Δ	DL	LC26	180-94	145	74-390N	TTL	74LS390PC	FSC	DL	LC11	140-59
36	74LS363N	TTL	SN74LS373N	Δ	DL	LC26	180-95	146	74-393N	TTL	M74LS393P	MITJ	DL	LC11	150-36
37	74LS363N	TTL	SN74LS373J	Δ	DL	LC26	180-2	147	74-393N	TTL	N74LS393D	SIC	DL	LC11	146-77
38	74LS363N	TTL	S54LS363F	Δ	DL	LC26	180-61	148	74-393N	TTL	N74LS393N	Δ	DL	LC11	146-78
39	74LS363N	TTL	S54LS373F	Δ	DL	LC26	181-8	149	74-393N	TTL	SN54LS393J	Δ	DL	LC11	146-15
40	74LS363N	TTL	54F373DM	FSC	DL	LC26	179-44	150	74-393N	TTL	SN54393J	TII	DL	LC11	148-71
41	74LS363N	TTL	54LS373DM	FSC	DL	LC26	178-11	151	74-393N	TTL	SN74LS393J	TII	DL	LC11	146-24
42	74LS363N	TTL	57S373J	MMI	DL	LC26	179-81	152	74-393N	TTL	SN74LS393N	Δ	DL	LC11	146-25
43	74LS363N	TTL	67S373J	MMI	DL	LC26	179-84	153	74-393N	TTL	SN74393J	TII	DL	LC11	148-73
44	74LS363N	TTL	74F373DC	FSC	DL	LC26	179-46	154	74-393N	TTL	SN74393N	TII	DL	LC11	148-74
45	74LS363N	TTL	74F373PC	FSC	DL	LC26	179-47	155	74-393N	TTL	S54LS393F	Δ	DL	LC11	147-2
46	74LS363N	TTL	74LS373DC	FSC	DL	LC26	178-17	156	74-393N	TTL	54LS393DM	FSC	DL	LC11	145-63
47	74LS363N	TTL	74LS373PC	FSC	DL	LC26	180-75	157	74-393N	TTL	74LS393DC	FSC	DL	LC11	145-65
48	74LS364	TTL	N74LS364N	Δ	DL	LC04	53-99	158	74-393N	TTL	74LS393PC	FSC	DL	LC11	145-66
49	74LS364N	TTL	N74LS364F	Δ	DL	LC04	53-98	159	74-406	TTL	M54406P	MITJ	DL	LC06	116-29
50	74LS364N	TTL	N74LS374D	SIC	DL	LC04	54-37	160	74-406	TTL	MC4006L,P%	MOTA	DL	LC06	118-65
51	74LS364N	TTL	N74LS374N	Δ	DL	LC04	53-100	161	74-406	TTL	MC4306L	MOTA	DL	LC06	118-71
52	74LS364N	TTL	SN54LS374J	MMI	DL	LC26	180-44	162	74-408P	TTL	MC4008L	MOTA	DL	LC25	172-69
53	74LS364N	TTL	SN54LS374J#	TII	DL	LC04	51-2	163	74-408P	TTL	MC4008P	MOTA	DL	LC25	172-70
54	74LS364N	TTL	SN54LS374J#	MMI	DL	LC26	180-45	164	74-408P	TTL	MC4308L	MOTA	DL	LC25	172-72
55	74LS364N	TTL	SN54S374J#	TII	DL	LC04	51-3	165	74S412N	TTL	SN74S412J	MO	LC26	180-22	
56	74LS364N	TTL	SN74LS374J#	MMI	DL	LC26	180-46	166	74S412N	TTL	SN74S412N	TII	DL	LC26	180-23
57	74LS364N	TTL	SN74LS374J#	TII	DL	LC04	53-15	167	74-415N	TTL	MC4015P	MOTA	DL	LC04	54-50
58	74LS364N	TTL	SN74LS374N	TII	DL	LC04	53-16	168	74-415N	TTL	MC4015P	MOTA	DL	LC04	54-51
59	74LS364N	TTL	SN74S374J	MMI	DL	LC26	180-47	169	74-421	TTL	MC4021P	MOTA	DL	LC17	165-83
60	74LS364N	TTL	SN74S374J#	TII	DL	LC04	53-23	170	74-422	TTL	MC4022P	MOTA	DL	LC17	165-84
61	74LS364N	TTL	S54LS364F	Δ	DL	LC04	53-44	171	74-422	TTL	SN54LS422J	TII	DL	LC12	155-69
62	74LS364N	TTL	S54LS374F	Δ	DL	LC04	53-45	172	74LS424	TTL	SN74LS424J	TII	DL	LC12	155-16
63	74LS364N	TTL	54LS374DM	FSC	DL	LC04	51-17	173	74LS424	TTL	SN74LS424N	TII	DL	LC12	155-17
64	74LS364N	TTL	57S374J	MMI	DL	LC26	180-27	174	74LS442N	TTL	MC4042L,P%	MOTA	DL	LC27	183-85
65	74LS364N	TTL	67S374J	MMI	DL	LC26	180-31	175	74-450	TTL	MC4050L	MOTA	DL	LC11	142-67
66	74LS364N	TTL	74F374DC	FSC	DL	LC04	51-33	176	74-450	TTL	MC4050P	MOTA	DL	LC11	142-68
67	74LS364N	TTL	74F374PC	FSC	DL	LC04	51-34	177	74-490	TTL	M74LS490P	MITJ	DL	LC11	139-82
68	74-365N	TTL	M74LS365AP	MITJ	DL	LC05	115-82	178	74-490	TTL	S54LS490F	Δ	DL	LC11	141-59
69	74-366N	TTL	M74LS366AP	MITJ	DL	LC05	115-40	179	74-490N	TTL	N74LS490F	Δ	DL	LC11	141-48
70	74-367N	TTL	M74LS367AP	MITJ	DL	LC05	115-83	180	74-490N	TTL	N74LS490N	Δ	DL	LC11	141-49
71	74-368N	TTL	M74LS368AP	MITJ	DL	LC05	115-41	181	74-490N	TTL	SN54LS490J	Δ	DL	LC11	141-11
72	74LS373	CMS	54HCT373C	STX	DL	LC26	175-70	182	74-490N	TTL	SN54490J	TII	DL	LC11	143-72
73	74LS373	CMS	54HCT373D	STX	DL	LC26	175-71	183	74-490N	TTL	SN74LS490J	Δ	DL	LC11	141-15
74	74LS373	CMS	74HCT373C	STX	DL	LC26	175-58	184	74-490N	TTL	SN74LS490N	Δ	DL	LC11	141-16
75	74LS373	CMS	74HCT373D	STX	DL	LC26	175-59	185	74-490N	TTL	SN74490J	TII	DL	LC11	143-47
76	74LS373	CMS	74HCT373P	STX	DL	LC26	175-60	186	74-490N	TTL	SN74490N	TII	DL	LC11	143-74
77	74LS373	CMS	74SC373C	STX	DL	LC26	175-77	187	74-490N	TTL	54LS490DM	FSC	DL	LC11	142-75
78	74LS373	CMS	74SC373D	STX	DL	LC26	175-78	188	74-490N	TTL	74LS490PC	FSC	DL	LC11	142-77
79	74LS373	CMS	74SC373P	STX	DL	LC26	175-79	189	74LS521	TTL	N74F521F	Δ	DL	LC17	165-95
80	74-374	TTL	N74F374F	Δ	DL	LC04	53-87	190	74LS521	TTL	N74F521N	Δ	DL	LC17	165-96
81	74-374	TTL	N74F374N	Δ	DL	LC04	53-88	191	74LS521	TTL	S54F521F	Δ	DL	LC17	165-97
82	74-374	TTL	S54F374F	Δ	DL	LC04	54-20	192	74LS533	CMS	54HCT533C	STX	DL	LC26	175-72
83	74LS375N	TTL	N74LS375F	Δ	DL	LC26	177-52	193	74LS533	CMS	74HCT533D	STX	DL	LC26	175-61
84	74LS375N	TTL	N74LS375N	Δ	DL	LC26	177-53	194	74LS533	CMS	74HCT533D	STX	DL	LC26	175-62
85	74LS375N	TTL	SN74LS375J	Δ	DL	LC26	177-65	195	74LS533	CMS	74HCT533P	STX	DL	LC26	175-63

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1	74LS534	TTL	SN74LS534J	MMI	DL	LC04	50- 8	111	75-12	TTL	DM7512J	NSC	DL	LC04	49- 40
2	74LS534	TTL	SN74LS534N	MMI	DL	LC04	50- 9	112	75-12	TTL	DM7512N	NSC	DL	LC04	49- 41
3	74LS534	TTL	SN74S534J	MMI	DL	LC04	50- 25	113	75-12	TTL	DM7512W	NSC	DL	LC04	49- 42
4	74LS534	TTL	SN74S534N	MMI	DL	LC04	50- 26	114	75-12	TTL	DM85L12F	NSC	FP	LC04	49- 37
5	74LS534	TTL	S54F534F	Δ	DL	LC04	54- 21	115	75-12	TTL	DM85L12J	NSC	DL	LC04	49- 38
6	74LS534N	TTL	54F534DM	FSC	DL	LC04	51- 13	116	75-12	TTL	DM85L12N	NSC	DL	LC04	49- 39
7	74LS534N	TTL	54LS534DM	FSC	DL	LC04	51- 19	117	75-12	TTL	DM8512W	NSC	FP	LC04	49- 43
8	74LS534N	TTL	57S376J	MMI	DL	LC26	180- 28	118	75-52	TTL	DM75L52F	NSC	FP	LC11	144- 16
9	74LS534N	TTL	57S378J	MMI	DL	LC26	180- 29	119	75-52	TTL	DM75L52J	NSC	DL	LC11	144- 17
10	74LS534N	TTL	67LS376J	MMI	DL	LC26	180- 30	120	75-52	TTL	DM75L52N	NSC	DL	LC11	144- 18
11	74LS534N	TTL	74F534DC	FSC	DL	LC04	51- 35	121	75-52	TTL	DM85L52N	NSC	FP	LC11	144- 19
12	74LS534N	TTL	74F534PC	FSC	DL	LC04	51- 36	122	75-52	TTL	DM85L52J	NSC	DL	LC11	144- 20
13	74LS534N	TTL	74LS534DC	FSC	DL	LC04	51- 41	123	75-52	TTL	DM85L52N	NSC	DL	LC11	144- 21
14	74LS534N	TTL	74LS534PC	FSC	DL	LC04	51- 42	124	75-52	TTL	DM8552J	NSC	DL	LC11	144- 24
15	74-558	TTL	AM25LS2516DC	AMD	DL	LC16	163- 89	125	75-52	TTL	DM8552N	NSC	DL	LC11	144- 25
16	74-558	TTL	AM25LS2516DM	AMD	DL	LC16	163- 90	126	75-52	TTL	DM8552W	NSC	FP	LC11	144- 26
17	74LS563	CMS	54HCT563C	STX	DL	LC26	175- 73	127	75-53N	TTL	DM7553J	NSC	DL	LC26	180-108
18	74LS563	CMS	54HCT563D	STX	DL	LC26	175- 74	128	75-53N	TTL	DM7553W	NSC	FL	LC26	180-109
19	74LS563	CMS	74HCT563C	STX	DL	LC26	175- 64	129	75-53N	TTL	DM8553J	NSC	DL	LC26	181- 1
20	74LS563	CMS	74HCT563D	STX	DL	LC26	175- 65	130	75-53N	TTL	DM8553N	NSC	DL	LC26	181- 2
21	74LS563	CMS	74HCT563P	STX	DL	LC26	175- 66	131	75-53N	TTL	DM8553W	NSC	FL	LC26	181- 3
22	74LS563	CMS	74SC563C	STX	DL	LC26	175- 83	132	75-54	TTL	DM75L54F	NSC	FP	LC11	150- 90
23	74LS563	CMS	74SC563D	STX	DL	LC26	175- 84	133	75-54	TTL	DM75L54J	NSC	DL	LC11	150- 91
24	74LS563	CMS	74SC563P	STX	DL	LC26	175- 85	134	75-54	TTL	DM75L54N	NSC	DL	LC11	150- 92
25	74LS563	TTL	54LS563DC	FSC	DL	LC26	178- 13	135	75-54	TTL	DM7554W	NSC	FP	LC11	150- 98
26	74LS563N	TTL	54LS563DM	FSC	DL	LC26	178- 14	136	75-54	TTL	DM85L54F	NSC	FP	LC11	150- 94
27	74LS563N	TTL	54LS563PC	FSC	DL	LC26	178- 16	137	75-54	TTL	DM85L54J	NSC	DL	LC11	150- 95
28	74LS564N	TTL	54LS564DM	FSC	DL	LC04	51- 21	138	75-54	TTL	DM85L54N	NSC	DL	LC11	150- 96
29	74LS568	TTL	N74LS568AN	SIC	DL	LC11	142- 69	139	75-54	TTL	DM8554J	NSC	DL	LC11	150- 99
30	74LS568	TTL	S54LS568AF	SIC	DL	LC11	142- 70	140	75-54	TTL	DM8554N	NSC	DL	LC11	150-100
31	74LS568N	TTL	N74LS568F	Δ	DL	LC11	144- 2	141	75-54	TTL	DM8554W	NSC	FP	LC11	150-101
32	74LS568N	TTL	N74LS568N	Δ	DL	LC11	144- 3	142	75-55	TTL	DM7555N	NSC	DL	LC11	142- 96
33	74LS568N	TTL	SN54LS568J	MOTA	DL	LC11	141- 72	143	75-56	TTL	DM7555J#mil	NSC	DL	LC11	151- 54
34	74LS568N	TTL	SN74LS568J	MOTA	DL	LC11	141- 83	144	75-56	TTL	DM7555W#mil	NSC	FP	LC11	151- 55
35	74LS568N	TTL	SN74LS568N	MOTA	DL	LC11	141- 84	145	75-56	TTL	DM7556J#mil	NSC	DL	LC11	148- 50
36	74LS568N	TTL	S54LS568F	Δ	DL	LC11	144- 6	146	75-56	TTL	DM7556N	NSC	DL	LC11	149- 30
37	74LS569	TTL	S54LS569AF	SIC	DL	LC11	148- 70	147	75-56	TTL	DM7556W#mil	NSC	FP	LC11	148- 51
38	74LS569N	TTL	AM25LS2569DC	AMD	DL	LC11	150- 53	148	75-56	TTL	DM8555N	NSC	DL	LC11	142- 97
39	74LS569N	TTL	AM25LS2569DM	AMD	DL	LC11	150- 49	149	75-56	TTL	DM8556N	NSC	DL	LC11	149- 31
40	74LS569N	TTL	AM25LS2569PC	AMD	DL	LC11	150- 54								
41	74LS569N	TTL	N74LS569F	Δ	DL	LC11	150- 71								
42	74LS569N	TTL	N74LS569N	Δ	DL	LC11	150- 72								
43	74LS569N	TTL	SN54LS569J	MOTA	DL	LC11	147- 21								
44	74LS569N	TTL	SN74LS569J	MOTA	DL	LC11	147- 34								
45	74LS569N	TTL	SN74LS569N	MOTA	DL	LC11	147- 35								
46	74LS569N	TTL	S54LS569F	Δ	DL	LC11	150- 79								
47	74LS573	CMS	54HCT573C	STX	DL	LC26	175- 75								
48	74LS573	CMS	54HCT573D	STX	DL	LC26	175- 76								
49	74LS573	CMS	74HCT573C	STX	DL	LC26	175- 67								
50	74LS573	CMS	74HCT573D	STX	DL	LC26	175- 68								
51	74LS573	CMS	74HCT573P	STX	DL	LC26	175- 69								
52	74LS573	CMS	74SC573C	STX	DL	LC26	175- 86								
53	74LS573	CMS	74SC573D	STX	DL	LC26	175- 87								
54	74LS573	CMS	74SC573P	STX	DL	LC26	175- 88								
55	74LS573	TTL	S54S573F	Δ	DL	LC26	179- 70								
56	74LS573N	TTL	SN74ALS573J	TII	DL	LC26	179- 77								
57	74LS573N	TTL	SN74ALS573N	TII	DL	LC26	179- 78								
58	74LS573N	TTL	54LS573DM	FSC	DL	LC26	178- 20								
59	74LS574N	TTL	SN74ALS574J	TII	DL	LC04	34- 27								
60	74LS574N	TTL	SN74ALS574N	TII	DL	LC04	34- 28								
61	74LS574N	TTL	54LS574DM	FSC	DL	LC04	51- 23								
62	74AS576	TTL	SN74ALS576J	TII	DL	LC04	34- 29								
63	74AS576	TTL	SN74ALS576N	TII	DL	LC04	34- 30								
64	74AS580	TTL	SN74ALS580J	TII	DL	LC26	179-101								
65	74AS580	TTL	SN74ALS580N	TII	DL	LC26	180- 1								
66	74LS604	TTL	SN54LS604J	TII	DL	LC26	180- 10								
67	74LS604	TTL	SN74LS604J	TII	DL	LC26	180- 14								
68	74LS604	TTL	SN74LS604N	TII	DL	LC26	180- 15								
69	74LS605	TTL	SN54LS605J	TII	DL	LC26	179- 38								
70	74LS605	TTL	SN74LS605J	TII	DL	LC26	179- 40								
71	74LS605	TTL	SN74LS605N	TII	DL	LC26	179- 41								
72	74LS606	TTL	SN54LS606J	TII	DL	LC26	180- 11								
73	74LS606	TTL	SN74LS606J	TII	DL	LC26	180- 16								
74	74LS606	TTL	SN74LS606N	TII	DL	LC26	180- 17								
75	74LS607	TTL	SN54LS607J	TII	DL	LC26	179- 39								
76	74LS607	TTL	SN74LS607J	TII	DL	LC26	179- 42								
77	74LS607	TTL	SN74LS607N	TII	DL	LC26	179- 43								
78	74AS800	TTL	SN74AS800J	TII	DL	LC05	87- 43								
79	74AS800	TTL	SN74AS800N	TII	DL	LC05	87- 44								
80	74AS802	TTL	SN74AS802J	TII	DL	LC05	87- 46								
81	74AS802	TTL	SN74AS802N	TII	DL	LC05	87- 47								
82	74AS804	TTL	SN74AS804J	TII	DL	LC05	107- 46								
83	74AS804	TTL	SN74AS804N	TII	DL	LC05	107- 47								
84	74AS808	TTL	SN74AS808J	TII	DL	LC05	80-100								
85	74AS808	TTL	SN74AS808N	TII	DL	LC05	80-101								
86	74AS832	TTL	SN74AS832J	TII	DL	LC05	88- 32								
87	74AS832	TTL	SN74AS832N	TII	DL	LC05	88- 33								
88	74AS885	TTL	SN74AS885NT	TII	DL	LC17	166-102								
89	74C922	TTL	MM54C922N	NSC	DL	LC27	184- 40								
90	74C922	TTL	MM74C922N	NSC	DL	LC27	184- 42								
91	74C923	TTL	MM74C923N	NSC	DL	LC27	184- 43								
92	74ALS1000	TTL	SN74ALS1000J	TII	DL	LC05	107- 41								
93	74ALS1000	TTL	SN74ALS1000N	TII	DL	LC05	107- 42								
94	74ALS1002	TTL	SN74ALS1002J	TII	DL	LC05	92- 80								
95	74ALS1002	TTL	SN74ALS1002N	TII	DL	LC05	92- 81								
96	74ALS1003	TTL	SN74ALS1003J	TII	DL	LC05	107- 43								
97	74ALS1020	TTL	SN74ALS1020J	TII	DL	LC05	107- 44								
98	74ALS1020	TTL	SN74ALS1020N	TII	DL	LC05	107- 45								
99	75-11N	TTL	DM75L11D	NSC	DL	LC04	50- 40								
100	75-11N	TTL	DM75L11F	NSC	FP	LC04	50- 41								
101	75-11N	TTL	DM75L11N	NSC	DL										

TYPE TO FUNCTIONAL EQUIVALENCE NUMBER

IN ORDER OF: (1) MFG TYPE NUMBER

LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GP E	LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GP E
1	6N126	54-00W	TTL	LC05	Digital	FL	111	54HCT563C	74LS563	CMS	LC26	Digital	DL
2	6N127	54-20W	TTL	LC05	Digital	FL	112	54HCT563D	74LS563	CMS	LC26	Digital	DL
3	6N128	54-01W	TTL	LC05	Digital	FL	113	54HCT573C	74LS573	CMS	LC26	Digital	DL
4	6N129	54-10W	TTL	LC05	Digital	FL	114	54HCT573D	74LS573	CMS	LC26	Digital	DL
5	6N130	54-20W	TTL	LC05	Digital	FL	115	54LS00DM	74-00N	TTL	LC05	Digital	DL
6	6N131	54-30W	TTL	LC05	Digital	FL	116	54LS00FM	54S00W	TTL	LC05	Digital	DL
7	6N132	54-20W	TTL	LC05	Digital	FL	117	54LS02DM	74-02N	TTL	LC05	Digital	DL
8	6N133	54-73W	TTL	LC04	Digital	FL	118	54LS02FM	54S02W	TTL	LC05	Digital	DL
9	54F00DM	74-00N	TTL	LC05	Digital	DL	119	54LS03DM	74-03N	TTL	LC05	Digital	DL
10	54F00FM	54S00W	TTL	LC05	Digital	DL	120	54LS03FM	54S03W	TTL	LC05	Digital	DL
11	54F02DM	74-02N	TTL	LC05	Digital	DL	121	54LS08DM	74-08N	TTL	LC05	Digital	DL
12	54F02FM	54S02W	TTL	LC05	Digital	DL	122	54LS08FM	54S08W	TTL	LC05	Digital	DL
13	54F04DM	74-04N	TTL	LC05	Digital	DL	123	54LS09FM	74-09N	TTL	LC05	Digital	DL
14	54F08DM	74-08N	TTL	LC05	Digital	DL	124	54LS10DM	74-10N	TTL	LC05	Digital	DL
15	54F08FM	54S08W	TTL	LC05	Digital	DL	125	54LS10FM	54S10W	TTL	LC05	Digital	DL
16	54F10DM	74-10N	TTL	LC05	Digital	DL	126	54LS11DM	74-11N	TTL	LC05	Digital	DL
17	54F10FM	54S10W	TTL	LC05	Digital	DL	127	54LS11FM	54S11	TTL	LC05	Digital	DL
18	54F11DM	74-11N	TTL	LC05	Digital	DL	128	54LS15FM	54H15W	TTL	LC05	Digital	DL
19	54F11FM	54S11W	TTL	LC05	Digital	FL	129	54LS20DM	74-13N	TTL	LC05	Digital	DL
20	54F20DM	74-13N	TTL	LC05	Digital	DL	130	54LS20FM	54-13W	TTL	LC05	Digital	DL
21	54F20FM	54-13W	TTL	LC05	Digital	FL	131	54LS21DM	74H21N	TTL	LC05	Digital	DL
22	54F32DM	74-32N	TTL	LC05	Digital	DL	132	54LS21FM	54LS21W	TTL	LC05	Digital	FL
23	54F32FM	54-32W	TTL	LC05	Digital	FL	133	54LS22FM	54-22W	TTL	LC05	Digital	FL
24	54F64DM	74S64N	TTL	LC05	Digital	DL	134	54LS26DM	74-03N	TTL	LC05	Digital	DL
25	54F64FM	54S64W	TTL	LC05	Digital	FL	135	54LS26FM	54S03W	TTL	LC05	Digital	DL
26	54F74DM	74-74N	TTL	LC04	Digital	DL	136	54LS27DM	74-27N	TTL	LC05	Digital	DL
27	54F74FM	54-74W	TTL	LC04	Digital	FL	137	54LS27FM	54-27W	TTL	LC05	Digital	DL
28	54F109DM	74-109	TTL	LC04	Digital	DL	138	54LS30DM	74-30N	TTL	LC05	Digital	DL
29	54F109FM	74-109	TTL	LC04	Digital	FP	139	54LS30FM	54S30W	TTL	LC05	Digital	DL
30	54F160DM	74-160N	TTL	LC11	Digital	DL	140	54LS32DM	74-32N	TTL	LC05	Digital	DL
31	54F160FM	54-160W	TTL	LC11	Digital	FP	141	54LS32FM	54-32W	TTL	LC05	Digital	DL
32	54F161DM	74-161N	TTL	LC11	Digital	DL	142	54LS33FM	54-33W	TTL	LC05	Digital	FL
33	54F161FM	54-161	TTL	LC11	Digital	FP	143	54LS42FM	54LS42W	TTL	LC06	Digital	FL
34	54F162DM	74-162N	TTL	LC11	Digital	DL	144	54LS51DM	74L51N	TTL	LC05	Digital	DL
35	54F162FM	54-162W	TTL	LC11	Digital	FP	145	54LS51FM	74L51N	TTL	LC05	Digital	DL
36	54F163DM	74-163N	TTL	LC11	Digital	DL	146	54LS54DM	74L54N	TTL	LC05	Digital	DL
37	54F163FM	54-163W	TTL	LC11	Digital	FP	147	54LS54FM	74L54N	TTL	LC05	Digital	DL
38	54F175DM	74-175N	TTL	LC04	Digital	DL	148	54LS55FM	54LS55W	TTL	LC05	Digital	DL
39	54F175FM	54-175W	TTL	LC04	Digital	FP	149	54LS74DM	74-74N	TTL	LC04	Digital	DL
40	54F181DM	74-181	TTL	LC18	Digital	DL	150	54LS74FM	54S74W	TTL	LC04	Digital	DL
41	54F181FM	54-181	TTL	LC18	Digital	FL	151	54LS76DM	74L76N	TTL	LC04	Digital	DL
42	54F182DM	74-182	TTL	LC19	Digital	DL	152	54LS76FM	54LS76W	TTL	LC04	Digital	FP
43	54F182FM	54-182	TTL	LC19	Digital	FL	153	54LS78DM	74L78N	TTL	LC04	Digital	DL
44	54F280DM	74S280N	TTL	LC25	Digital	DL	154	54LS78FM	54L78T	TTL	LC04	Digital	FP
45	54F280FM	54S280W	TTL	LC25	Digital	DL	155	54LS83ADM	74-83	TTL	LC15	Digital	DL
46	54F283DM	74-283	TTL	LC15	Digital	DL	156	54LS83AFM	54-83	TTL	LC15	Digital	DL
47	54F283FM	54-83	TTL	LC15	Digital	FL	157	54LS85DM	74-85N	TTL	LC17	Digital	DL
48	54F373DM	74LS363N	TTL	LC26	Digital	DL	158	54LS85FM	54-85	TTL	LC17	Digital	DL
49	54F373FM	54LS363W	TTL	LC26	Digital	FL	159	54LS90FM	54-90W	TTL	LC11	Digital	FP
50	54F374DM	54S374W	TTL	LC04	Digital	FP	160	54LS92FM	54-92W	TTL	LC11	Digital	FP
51	54F533DM	74LS533N	TTL	LC26	Digital	DL	161	54LS93DM	74LS93N	TTL	LC11	Digital	DL
52	54F533FM	54LS533W	TTL	LC26	Digital	FL	162	54LS93FM	54LS93	TTL	LC11	Digital	DL
53	54F534DM	74LS534N	TTL	LC04	Digital	DL	163	54LS107DM	74-107N	TTL	LC04	Digital	DL
54	54F534FM	54LS534W	TTL	LC04	Digital	FL	164	54LS107FM	54-107F	TTL	LC04	Digital	FP
55	54H00DM	74-00N	TTL	LC05	Digital	DL	165	54LS109DM	74-109N	TTL	LC04	Digital	DL
56	54H00FM	54-00W	TTL	LC05	Digital	FL	166	54LS109FM	54-109W	TTL	LC04	Digital	DL
57	54H01DM	74-03N	TTL	LC05	Digital	DL	167	54LS112DM	74LS112N	TTL	LC04	Digital	DL
58	54H01FM	54-01W	TTL	LC05	Digital	FL	168	54LS112FM	54S112W	TTL	LC04	Digital	DL
59	54H08DM	74-08N	TTL	LC05	Digital	DL	169	54LS113FM	54S113W	TTL	LC04	Digital	DL
60	54H08FM	54S08W	TTL	LC05	Digital	FL	170	54LS114FM	54S114W	TTL	LC04	Digital	DL
61	54H10DM	74-10N	TTL	LC05	Digital	DL	171	54LS133DM	74S133N	TTL	LC05	Digital	DL
62	54H10FM	54-10W	TTL	LC05	Digital	FL	172	54LS133FM	54S133W	TTL	LC05	Digital	DL
63	54H11DM	74-11N	TTL	LC05	Digital	DL	173	54LS136DM	74-136N	TTL	LC05	Digital	DL
64	54H11FM	54H11W	TTL	LC05	Digital	FL	174	54LS136FM	54-136W	TTL	LC05	Digital	DL
65	54H20DM	74-13N	TTL	LC05	Digital	DL	175	54LS160FM	54-160W	TTL	LC11	Digital	FP
66	54H20FM	54-20W	TTL	LC05	Digital	FL	176	54LS161DM	74-161N	TTL	LC11	Digital	FP
67	54H21DM	74H21N	TTL	LC05	Digital	DL	177	54LS161FM	54-161	TTL	LC11	Digital	FP
68	54H21FM	54H21W	TTL	LC05	Digital	FL	178	54LS162FM	54-162W	TTL	LC11	Digital	FP
69	54H22DM	74-22N	TTL	LC05	Digital	DL	179	54LS163DM	74-163N	TTL	LC11	Digital	FP
70	54H22FM	54H22W	TTL	LC05	Digital	FL	180	54LS163FM	54-163W	TTL	LC11	Digital	FP
71	54H30DM	74-30N	TTL	LC05	Digital	DL	181	54LS168DM	74S168N	TTL	LC11	Digital	DL
72	54H30FM	54-30W	TTL	LC05	Digital	FL	182	54LS168FM	54S168W	TTL	LC11	Digital	FP
73	54H50DM	74-50N	TTL	LC05	Digital	DL	183	54LS169DM	74S169N	TTL	LC11	Digital	DL
74	54H50FM	54-50W	TTL	LC05	Digital	FL	184	54LS169FM	54S169W	TTL	LC11	Digital	FP
75	54H51DM	74-50N	TTL	LC05	Digital	DL	185	54LS175DM	74-175N	TTL	LC04	Digital	DL
76	54H51FM	54-51W	TTL	LC05	Digital	FL	186	54LS175FM	54-175W	TTL	LC04	Digital	DL
77	54H52DM	74H52N	TTL	LC05	Digital	DL	187	54LS181FM	54-181	TTL	LC18	Digital	FP
78	54H52FM	54H52W	TTL	LC05	Digital	FL	188	54LS190FM	54-190W	TTL	LC11	Digital	FP
79	54H53DM	74H53N	TTL	LC05	Digital	DL	189	54LS191DM	74-181N	TTL	LC11	Digital	DL
80	54H53FM	54H53W	TTL	LC05	Digital	FL	190	54LS191FM	54-191W	TTL	LC11	Digital	DL
81	54H54DM	74H54N	TTL	LC05	Digital	DL	191	54LS192DM	74-192N	TTL	LC11	Digital	DL
82	54H54FM	54H54W	TTL	LC05	Digital	FL	192	54LS192FM	54-192W	TTL	LC11	Digital	DL
83	54H55FM	54H55W	TTL	LC05	Digital	FL	193	54LS193DM	74-193N	TTL	LC11	Digital	FP
84	54H60FM	54-60W	TTL	LC05	Digital	FL	194	54LS193FM	54-193W	TTL	LC11	Digital	FP
85	54H61DM	74H61N	TTL	LC05	Digital	DL	195	54LS196FM	54-176W	TTL	LC11	Digital	FP
86	54H61FM	54H61W	TTL	LC05	Digital	FL	196	54LS256DM	74LS256N	TTL	LC26	Digital	DL
87	54H62FM	54H62W	TTL	LC05	Digital	FL	197	54LS256FM	54LS256W	TTL	LC26	Digital	DL
88	54H71FM	54H71W	TTL	LC04	Digital	FP	198	54LS259DM	74-259N	TTL	LC26	Digital	DL
89	54H72DM	74L71N	TTL	LC04	Digital	DL	199	54LS259FM	54-259W	TTL	LC26	Digital	DL
90	54H72FM	54H71T	TTL	LC04	Digital	FP	200	54LS280DM	74S280N	TTL	LC05	Digital	DL
91	54H73DM	74-73N	TTL	LC04	Digital	DL	201	54LS280FM	54S280W	TTL	LC05	Digital	DL
92	54H73FM	54-73W	TTL	LC04	Digital	FP	202	54LS286DM	74LS286N	TTL	LC05	Digital	DL
93	54H74DM	74-74N	TTL	LC04	Digital	DL	203	54LS286FM	54LS286W	TTL	LC05	Digital	DL
94	54H74FM	54-74W	TTL	LC04	Digital	FP	204	54LS273DM	74-273N	TTL	LC04	Digital	DL
95	54H76FM	54LS76W	TTL	LC04	Digital	FP	205	54LS273FM	54LS273W	TTL	LC04	Digital	FP
96	54H78FM	54H78W	TTL	LC04	Digital	FP	206	54LS279DM	74-279N	TTL	LC26	Digital	DL
97	54H87DM	74H87N	MON	LC27	Digital	DL	207	54LS279FM	74-279	TTL	LC26	Digital	DL
98	54H87FM	54H87W	MON	LC27	Digital	FL	208	54LS283DM	74-283	TTL	LC15	Digital	DL
99	54H101FM	54H71W	TTL	LC04	Digital	FP	209	54LS283FM	54-283	TTL	LC15	Digital	FL
100	54H102FM	54L71T	TTL	LC04	Digital	FP	210	54LS283W	54-283	TTL	LC15	Digital	FL
101	54H103DM	74H103	TTL	LC04	Digital	DL	211	54LS290DM	74-290N	TTL	LC11	Digital	DL
102	54H103FM	54H103	TTL	LC04	Digital	FL	212	54LS290FM	54-290W	TTL	LC11	Digital	DL
103	54H106												

TYPE TO FUNCTIONAL EQUIVALENCE NUMBER

IN ORDER OF: (1) MFG TYPE NUMBER

LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GP E	LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GP E
1	54LS377DM	74LS377N	TTL	LC04	Digital	DL	111	74F162DC	74-162N	TTL	LC11	Digital	DL
2	54LS377FM	54LS377W	TTL	LC04	Digital	FP	112	74F162PC	74-162N	TTL	LC11	Digital	DL
3	54LS378FM	54LS378W	TTL	LC04	Digital	FP	113	74F163DC	74-163N	TTL	LC11	Digital	DL
4	54LS384DM	74LS384	TTL	LC16	Digital	DL	114	74F163PC	74-163N	TTL	LC11	Digital	DL
5	54LS384FM	54LS384	TTL	LC16	Digital	FL	115	74F175DC	74-175N	TTL	LC04	Digital	DL
6	54LS386DM	74L86N	TTL	LC05	Digital	DL	116	74F175PC	74-175N	TTL	LC04	Digital	DL
7	54LS386FM	54LS386W	TTL	LC05	Digital	FL	117	74F181DC	74-181	TTL	LC18	Digital	DL
8	54LS390DM	74-390N	TTL	LC11	Digital	DL	118	74F181PC	74-181	TTL	LC18	Digital	DL
9	54LS390FM	54-390	TTL	LC11	Digital	FP	119	74F182DC	74-182	TTL	LC19	Digital	DL
10	54LS393DM	74-393N	TTL	LC11	Digital	DL	120	74F182PC	74-182	TTL	LC19	Digital	DL
11	54LS393FM	54-393W	TTL	LC11	Digital	FP	121	74F280DC	74S280N	TTL	LC25	Digital	DL
12	54LS490DM	74-490N	TTL	LC11	Digital	DL	122	74F280PC	74S280N	TTL	LC25	Digital	DL
13	54LS490FM	54-490W	TTL	LC11	Digital	FP	123	74F283DC	74-283	TTL	LC15	Digital	DL
14	54LS533DM	74LS533N	TTL	LC26	Digital	DL	124	74F283PC	74-283	TTL	LC15	Digital	DL
15	54LS533FM	54LS533W	TTL	LC26	Digital	FL	125	74F373DC	74LS363N	TTL	LC26	Digital	DL
16	54LS534DM	74LS534N	TTL	LC04	Digital	DL	126	74F373PC	74LS363N	TTL	LC26	Digital	DL
17	54LS534FM	54LS534	TTL	LC04	Digital	FP	127	74F374DC	74LS364N	TTL	LC04	Digital	DL
18	54LS563DC	74LS563	TTL	LC26	Digital	DL	128	74F374PC	74LS364N	TTL	LC04	Digital	DL
19	54LS563DM	54LS563N	TTL	LC26	Digital	DL	129	74F533DC	74LS533N	TTL	LC26	Digital	DL
20	54LS563FM	54LS563W	TTL	LC26	Digital	FL	130	74F533PC	74LS533N	TTL	LC26	Digital	DL
21	54LS563PC	74LS563N	TTL	LC26	Digital	DL	131	74F534DC	74LS534N	TTL	LC04	Digital	DL
22	54LS564DM	74LS564N	TTL	LC04	Digital	DL	132	74F534PC	74LS534N	TTL	LC04	Digital	DL
23	54LS564FM	54LS564W	TTL	LC04	Digital	FP	133	74H00DC	74-00N	TTL	LC05	Digital	DL
24	54LS573DM	74LS573N	TTL	LC26	Digital	DL	134	74H00PC	74-00N	TTL	LC05	Digital	DL
25	54LS573FM	54LS573W	TTL	LC26	Digital	FL	135	74H01DC	74-03N	TTL	LC05	Digital	DL
26	54LS574DM	74LS574N	TTL	LC04	Digital	DL	136	74H01PC	74-03N	TTL	LC05	Digital	DL
27	54LS574FM	54LS574W	TTL	LC04	Digital	FP	137	74H10DC	74-10N	TTL	LC05	Digital	DL
28	54S00DM	74-00N	TTL	LC05	Digital	DL	138	74H10PC	74-10N	TTL	LC05	Digital	DL
29	54S00FM	54S00W	TTL	LC05	Digital	FL	139	74H11DC	74-11N	TTL	LC05	Digital	DL
30	54S03DM	74-03N	TTL	LC05	Digital	DL	140	74H11PC	74-11N	TTL	LC05	Digital	DL
31	54S09FM	54S09W	TTL	LC05	Digital	FL	141	74H20DC	74-13N	TTL	LC05	Digital	DL
32	54S10DM	74-10N	TTL	LC05	Digital	DL	142	74H20PC	74-13N	TTL	LC05	Digital	DL
33	54S10FM	54S10W	TTL	LC05	Digital	FL	143	74H21DC	74H21N	TTL	LC05	Digital	DL
34	54S11DM	74-11N	TTL	LC05	Digital	DL	144	74H21PC	74H21N	TTL	LC05	Digital	DL
35	54S11FM	54S11W	TTL	LC05	Digital	FL	145	74H22DC	74-22N	TTL	LC05	Digital	DL
36	54S15DM	74H15N	TTL	LC05	Digital	DL	146	74H22PC	74-22N	TTL	LC05	Digital	DL
37	54S15FM	54H15W	TTL	LC05	Digital	FL	147	74H30DC	74-30N	TTL	LC05	Digital	DL
38	54S20DM	74-13N	TTL	LC05	Digital	DL	148	74H30PC	74-30N	TTL	LC05	Digital	DL
39	54S20FM	54-13W	TTL	LC05	Digital	FL	149	74H50DC	74-50N	TTL	LC05	Digital	DL
40	54S22DM	74-22N	TTL	LC05	Digital	DL	150	74H50PC	54-50W	TTL	LC05	Digital	FL
41	54S22FM	54-22W	TTL	LC05	Digital	FL	151	74H50PC	74-50N	TTL	LC05	Digital	DL
42	54S30DM	74-30N	TTL	LC05	Digital	DL	152	74H51DC	74-50N	TTL	LC05	Digital	DL
43	54S30FM	54S30W	TTL	LC05	Digital	FL	153	74H51PC	74-50N	TTL	LC05	Digital	DL
44	54S32DM	74-32N	TTL	LC05	Digital	DL	154	74H52PC	74H52N	TTL	LC05	Digital	DL
45	54S32FM	54-32W	TTL	LC05	Digital	FL	155	74H53DC	74H53N	TTL	LC05	Digital	DL
46	54S51DM	74-50N	TTL	LC05	Digital	DL	156	74H53PC	74H53N	TTL	LC05	Digital	DL
47	54S51FM	54S51W	TTL	LC05	Digital	FL	157	74H54DC	74H54N	TTL	LC05	Digital	DL
48	54S64DM	74S64N	TTL	LC05	Digital	DL	158	74H54PC	74H54N	TTL	LC05	Digital	DL
49	54S64FM	54S64W	TTL	LC05	Digital	FL	159	74H55PC	74H55N	TTL	LC05	Digital	DL
50	54S65FM	54S65W	TTL	LC05	Digital	FL	160	74H61DC	74H61N	TTL	LC05	Digital	DL
51	54S74DM	74-74N	TTL	LC04	Digital	DL	161	74H61PC	74H61N	TTL	LC05	Digital	DL
52	54S74FM	54S74W	TTL	LC04	Digital	FL	162	74H62PC	74H62N	TTL	LC05	Digital	DL
53	54S86DM	74-86N	TTL	LC05	Digital	DL	163	74H72DC	74L71N	TTL	LC04	Digital	DL
54	54S86FM	54-86W	TTL	LC05	Digital	FL	164	74H72PC	74L71N	TTL	LC04	Digital	DL
55	54S109DM	74-109N	TTL	LC04	Digital	DL	165	74H73DC	74-73N	TTL	LC04	Digital	DL
56	54S109FM	54-109	TTL	LC04	Digital	FL	166	74H73PC	74-73N	TTL	LC04	Digital	DL
57	54S112DM	74LS112N	TTL	LC04	Digital	DL	167	74H74DC	74-74N	TTL	LC04	Digital	DL
58	54S112FM	54S112W	TTL	LC04	Digital	FL	168	74H74PC	74-74N	TTL	LC04	Digital	DL
59	54S113FM	54S113W	TTL	LC04	Digital	FL	169	74H87DC	74H87N	MON	LC27	Digital	DL
60	54S114FM	54S114W	TTL	LC04	Digital	FL	170	74H87PC	74H87N	MON	LC27	Digital	DL
61	54S133DM	74S133N	TTL	LC05	Digital	DL	171	74H101PC	74H71N	TTL	LC04	Digital	DL
62	54S133FM	54S133W	TTL	LC05	Digital	FL	172	74H103DC	74H103	TTL	LC04	Digital	DL
63	54S134FM	54S134W	TTL	LC05	Digital	FL	173	74H103PC	74H103	TTL	LC04	Digital	DL
64	54S175DM	74-175N	TTL	LC04	Digital	DL	174	74H106DC	74LS76N	TTL	LC04	Digital	DL
65	54S175FM	54-175W	TTL	LC04	Digital	FL	175	74H106PC	74LS76N	TTL	LC04	Digital	DL
66	54S181DM	74-181	TTL	LC18	Digital	DL	176	74H108DC	74H78N	TTL	LC04	Digital	DL
67	54S181FM	54-181	TTL	LC18	Digital	FL	177	74H108PC	74H78	TTL	LC04	Digital	DL
68	54S182DM	74-182	TTL	LC19	Digital	DL	178	74H183PC	74H183N	TTL	LC15	Digital	DL
69	54S182FM	54-182	TTL	LC19	Digital	FL	179	74HCT373C	74LS373	CMS	LC26	Digital	DL
70	54S260DM	74S260N	TTL	LC05	Digital	DL	180	74HCT373D	74LS373	CMS	LC26	Digital	DL
71	54S260FM	54S260W	TTL	LC05	Digital	FL	181	74HCT373P	74LS373	CMS	LC26	Digital	DL
72	54S280DM	74S280N	TTL	LC25	Digital	DL	182	74HCT533C	74LS533	CMS	LC26	Digital	DL
73	54S280FM	54S280W	TTL	LC25	Digital	FL	183	74HCT533D	74LS533	CMS	LC26	Digital	DL
74	57S373J	74LS363N	TTL	LC26	Digital	DL	184	74HCT533P	74LS533	CMS	LC26	Digital	DL
75	57S374J	74LS364N	TTL	LC26	Digital	DL	185	74HCT563C	74LS563	CMS	LC26	Digital	DL
76	57S376J	74LS534N	TTL	LC26	Digital	DL	186	74HCT563D	74LS563	CMS	LC26	Digital	DL
77	57S378J	74LS534N	TTL	LC26	Digital	DL	187	74HCT563P	74LS563	CMS	LC26	Digital	DL
78	57S380J	74LS533N	TTL	LC26	Digital	DL	188	74HCT573C	74LS573	CMS	LC26	Digital	DL
79	57S382J	74LS533N	TTL	LC26	Digital	DL	189	74HCT573D	74LS573	CMS	LC26	Digital	DL
80	67LS376J	74LS534N	TTL	LC26	Digital	DL	190	74HCT573P	74LS573	CMS	LC26	Digital	DL
81	67LS380J	74LS533N	TTL	LC26	Digital	DL	191	74LS00DC	74-00N	TTL	LC05	Digital	DL
82	67S373J	74LS363N	TTL	LC26	Digital	DL	192	74LS00PC	74-00N	TTL	LC05	Digital	DL
83	67S374J	74LS364N	TTL	LC26	Digital	DL	193	74LS02DC	74-02N	TTL	LC05	Digital	DL
84	67S380J	74LS533N	TTL	LC26	Digital	DL	194	74LS02PC	74-02N	TTL	LC05	Digital	DL
85	74F00DC	74-00N	TTL	LC05	Digital	DL	195	74LS03DC	74-03N	TTL	LC05	Digital	DL
86	74F00PC	74-00N	TTL	LC05	Digital	DL	196	74LS03PC	74-03N	TTL	LC05	Digital	DL
87	74F02DC	74-02N	TTL	LC05	Digital	DL	197	74LS08DC	74-08N	TTL	LC05	Digital	DL
88	74F02PC	74-02N	TTL	LC05	Digital	DL	198	74LS08PC	74-08N	TTL	LC05	Digital	DL
89	74F04DC	74-04N	TTL	LC05	Digital	DL	199	74LS09PC	74-09N	TTL	LC05	Digital	DL
90	74F04PC	74-04N	TTL	LC05	Digital	DL	200	74LS10DC	74-10N	TTL	LC05	Digital	DL
91	74F08DC	74-08N	TTL	LC05	Digital	DL	201	74LS10PC	74-10N	TTL	LC05	Digital	DL
92	74F08PC	74-08N	TTL	LC05	Digital	DL	202	74LS11DC	74-11N	TTL	LC05	Digital	DL
93	74F10DC	74-10N	TTL	LC05	Digital	DL	203	74LS11PC	74-11N	TTL	LC05	Digital	DL
94	74F10PC	74-10N	TTL	LC05	Digital	DL	204	74LS15PC	74H15N	TTL	LC05	Digital	DL
95	74F11DC	74-11N	TTL	LC05	Digital	DL	205	74LS20DC	74-13N	TTL	LC05	Digital	DL
96	74F11PC	74-11N	TTL	LC05	Digital	DL	206	74LS20PC	74-13N	TTL	LC05	Digital	DL
97	74F20DC	74-13N	TTL	LC05	Digital	DL	207	74LS21DC	74H21N	TTL	LC05	Digital	DL
98	74F20PC	74-13N	TTL	LC05	Digital	DL	208	74LS21PC	74H21N	TTL	LC05	Digital	DL
99	74F32DC	74-32N	TTL	LC05	Digital	DL	209	74LS22PC	74-22N	TTL	LC05	Digital	DL
100	74F32PC	74-32N	TTL	LC05	Digital	DL	210	74LS26DC	74-03N	TTL	LC05	Digital	DL
101	74F64DC	74S64N	TTL	LC05	Digital	DL	211	74LS26PC	74-03N	TTL	LC05	Digital	DL
102	74F64PC	74S64N	TTL	LC05	Digital	DL	212	74LS27DC	74-27N	TTL	LC05</		

TYPE TO FUNCTIONAL EQUIVALENCE NUMBER

IN ORDER OF: (1) MFG TYPE NUMBER

LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GPE	LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GPE
1	74LS42PC	74-42N	TTL	LC06	Digital	DL	111	74S74DC	74-74N	TTL	LC04	Digital	DL
2	74LS51DC	74L51	TTL	LC05	Digital	DL	112	74S74PC	74-74N	TTL	LC04	Digital	DL
3	74LS51PC	74L51	TTL	LC05	Digital	DL	113	74S86DC	74-86N	TTL	LC05	Digital	DL
4	74LS54DC	74L54N	TTL	LC05	Digital	DL	114	74S86PC	74-86N	TTL	LC05	Digital	DL
5	74LS54PC	74L54N	TTL	LC05	Digital	DL	115	74S109DC	74-109N	TTL	LC04	Digital	DL
6	74LS55PC	74L55N	TTL	LC05	Digital	DL	116	74S109PC	74-109N	TTL	LC04	Digital	DL
7	74LS76DC	74LS76N	TTL	LC04	Digital	DL	117	74S112DC	74LS112N	TTL	LC04	Digital	DL
8	74LS76PC	74LS76N	TTL	LC04	Digital	DL	118	74S112PC	74LS112N	TTL	LC04	Digital	DL
9	74LS83ADC	74-83	TTL	LC15	Digital	DL	119	74S113PC	74LS113N	TTL	LC04	Digital	DL
10	74LS83APC	74-83	TTL	LC15	Digital	DL	120	74S133DC	74S133N	TTL	LC05	Digital	DL
11	74LS85DC	74-85N	TTL	LC17	Digital	DL	121	74S133PC	74S133N	TTL	LC05	Digital	DL
12	74LS85PC	74-85N	TTL	LC17	Digital	DL	122	74S175DC	74-175N	TTL	LC04	Digital	DL
13	74LS86DC	74-86N	TTL	LC05	Digital	DL	123	74S175PC	74-175N	TTL	LC04	Digital	DL
14	74LS86PC	74-86N	TTL	LC05	Digital	DL	124	74S181DC	74-181	TTL	LC18	Digital	DL
15	74LS90DC	74-90N	TTL	LC11	Digital	DL	125	74S181PC	74-181	TTL	LC18	Digital	DL
16	74LS90PC	74-90N	TTL	LC11	Digital	DL	126	74S182DC	74-182	TTL	LC19	Digital	DL
17	74LS92PC	74-182N	TTL	LC11	Digital	DL	127	74S182PC	74-182	TTL	LC19	Digital	DL
18	74LS93DC	74LS93N	TTL	LC11	Digital	DL	128	74S373C	74LS373	CMS	LC26	Digital	DL
19	74LS93PC	74LS93N	TTL	LC11	Digital	DL	129	74S373D	74LS373	CMS	LC26	Digital	DL
20	74LS109DC	74-109N	TTL	LC04	Digital	DL	130	74S373P	74LS373	CMS	LC26	Digital	DL
21	74LS109PC	74-109N	TTL	LC04	Digital	DL	131	74S533C	74LS533	CMS	LC26	Digital	DL
22	74LS112DC	74LS112N	TTL	LC04	Digital	DL	132	74S533D	74LS533	CMS	LC26	Digital	DL
23	74LS112PC	74LS112N	TTL	LC04	Digital	DL	133	74S533P	74LS533	CMS	LC26	Digital	DL
24	74LS113PC	74LS113	TTL	LC04	Digital	DL	134	74S563C	74LS563	CMS	LC26	Digital	DL
25	74LS114PC	74LS114N	TTL	LC04	Digital	DL	135	74S563D	74LS563	CMS	LC26	Digital	DL
26	74LS133DC	74S133N	TTL	LC05	Digital	DL	136	74S563P	74LS563	CMS	LC26	Digital	DL
27	74LS133PC	74S133N	TTL	LC05	Digital	DL	137	74S573C	74LS573	CMS	LC26	Digital	DL
28	74LS136DC	74-136N	TTL	LC05	Digital	DL	138	74S573D	74LS573	CMS	LC26	Digital	DL
29	74LS136PC	74-136N	TTL	LC05	Digital	DL	139	74S573P	74LS573	CMS	LC26	Digital	DL
30	74LS160PC	74-160N	TTL	LC11	Digital	DL	140	93L08DC	74-116N	TTL	LC26	Digital	DL
31	74LS161DC	74-161N	TTL	LC11	Digital	DL	141	93L08DM	74-116N	TTL	LC26	Digital	DL
32	74LS161PC	74-161N	TTL	LC11	Digital	DL	142	93L08FM	54-116W	TTL	LC26	Digital	DL
33	74LS162PC	74-162	TTL	LC11	Digital	DL	143	93L08PC	74-116N	TTL	LC26	Digital	DL
34	74LS163DC	74-163N	TTL	LC11	Digital	DL	144	93L10DC	74-160N	TTL	LC11	Digital	DL
35	74LS163PC	74-163N	TTL	LC11	Digital	DL	145	93L10DM	74-160N	TTL	LC11	Digital	DL
36	74LS168DC	74S168N	TTL	LC11	Digital	DL	146	93L10FM	54-160W	TTL	LC11	Digital	DL
37	74LS168PC	74S168N	TTL	LC11	Digital	DL	147	93L10PC	74-160N	TTL	LC11	Digital	DL
38	74LS169DC	74S169N	TTL	LC11	Digital	DL	148	93L10PC#	74-160N	TTL	LC11	Digital	DL
39	74LS169PC	74S169N	TTL	LC11	Digital	DL	149	93L11PC	74-154N	TTL	LC06	Digital	DL
40	74LS175DC	74-175N	TTL	LC04	Digital	DL	150	93L16DC	74-161N	TTL	LC11	Digital	DL
41	74LS175PC	74-175N	TTL	LC04	Digital	DL	151	93L16DM	74-161N	TTL	LC11	Digital	DL
42	74LS181PC	74-181	TTL	LC18	Digital	DL	152	93L16FM	54-161W	TTL	LC11	Digital	DL
43	74LS190PC	74-190N	TTL	LC11	Digital	DL	153	93L16PC	74-161N	TTL	LC11	Digital	DL
44	74LS191DC	74-191N	TTL	LC11	Digital	DL	154	93L16PC#	74-161N	TTL	LC11	Digital	DL
45	74LS191PC	74-191N	TTL	LC11	Digital	DL	155	93L21PC	74S139N	TTL	LC06	Digital	DL
46	74LS192DC	74-192N	TTL	LC11	Digital	DL	156	93L34DC	74-259N	TTL	LC26	Digital	DL
47	74LS192PC	74-192	TTL	LC11	Digital	DL	157	93L34DM	74-259N	TTL	LC26	Digital	DL
48	74LS193DC	74-193N	TTL	LC11	Digital	DL	158	93L34FM	54-259W	TTL	LC26	Digital	DL
49	74LS193PC	74-193N	TTL	LC11	Digital	DL	159	93L34PC	74-259N	TTL	LC26	Digital	DL
50	74LS196PC	74-176N	TTL	LC11	Digital	DL	160	93L41DC	74-181	TTL	LC18	Digital	DL
51	74LS197DC	74-177N	TTL	LC11	Digital	DL	161	93L41DM	74-181	TTL	LC18	Digital	DL
52	74LS197PC	74-177N	TTL	LC11	Digital	DL	162	93L41FM	54-181	TTL	LC18	Digital	DL
53	74LS256DC	74LS256N	TTL	LC26	Digital	DL	163	93L41PC	74-181	TTL	LC18	Digital	DL
54	74LS259DC	74-259N	TTL	LC26	Digital	DL	164	93L60DC	74-192N	TTL	LC11	Digital	DL
55	74LS259PC	74-259N	TTL	LC26	Digital	DL	165	93L60DM	74-192N	TTL	LC11	Digital	DL
56	74LS260DC	74S260N	TTL	LC05	Digital	DL	166	93L60FM	74-192N	TTL	LC11	Digital	DL
57	74LS260PC	74S260N	TTL	LC05	Digital	DL	167	93L60PC	54-192	TTL	LC11	Digital	DL
58	74LS266DC	74LS266N	TTL	LC05	Digital	DL	168	93L66DC	74-193N	TTL	LC11	Digital	DL
59	74LS266PC	74LS266N	TTL	LC05	Digital	DL	169	93L66DM	74-193N	TTL	LC11	Digital	DL
60	74LS273DC	74-273N	TTL	LC04	Digital	DL	170	93L66FM	74-193N	TTL	LC11	Digital	DL
61	74LS273PC	74-273N	TTL	LC04	Digital	DL	171	93L66PC	54-193W	TTL	LC11	Digital	DL
62	74LS279DC	74-279N	TTL	LC26	Digital	DL	172	93S10DC	74-160N	TTL	LC11	Digital	DL
63	74LS279PC	74-279N	TTL	LC26	Digital	DL	173	93S10DM	74-160N	TTL	LC11	Digital	DL
64	74LS283DC	74-283	TTL	LC15	Digital	DL	174	93S10FM	54-160W	TTL	LC11	Digital	DL
65	74LS283PC	74-283	TTL	LC15	Digital	DL	175	93S10PC	74-160N	TTL	LC11	Digital	DL
66	74LS290DC	74-290N	TTL	LC11	Digital	DL	176	93S16DC	74-161N	TTL	LC11	Digital	DL
67	74LS290PC	74-290N	TTL	LC11	Digital	DL	177	93S16DC#	74-161N	TTL	LC11	Digital	DL
68	74LS293DC	74-293N	TTL	LC11	Digital	DL	178	93S18DM	74-161N	TTL	LC11	Digital	DL
69	74LS293PC	74-293N	TTL	LC11	Digital	DL	179	93S18DM#	74-161N	TTL	LC11	Digital	DL
70	74LS373DC	74LS373N	TTL	LC26	Digital	DL	180	93S16FM	54-161W	TTL	LC11	Digital	DL
71	74LS373PC	74LS373N	TTL	LC26	Digital	DL	181	93S16FM#	54-161W	TTL	LC11	Digital	DL
72	74LS375DC	74LS375N	TTL	LC26	Digital	DL	182	93S19PC	74-161N	TTL	LC11	Digital	DL
73	74LS375PC	74LS375N	TTL	LC26	Digital	DL	183	93S21DC	74S139N	TTL	LC06	Digital	DL
74	74LS377DC	74LS377N	TTL	LC04	Digital	DL	184	93S21DM	74S139N	TTL	LC06	Digital	DL
75	74LS377PC	74LS377N	TTL	LC04	Digital	DL	185	93S21FM	54S139W	TTL	LC06	Digital	DL
76	74LS378DC	74LS378N	TTL	LC04	Digital	DL	186	93S21PC	74S139N	TTL	LC06	Digital	DL
77	74LS378PC	74LS378N	TTL	LC04	Digital	DL	187	93S41DC	74-181	TTL	LC18	Digital	DL
78	74LS390DC	74-390N	TTL	LC11	Digital	DL	188	93S41DM	74-181	TTL	LC18	Digital	DL
79	74LS390PC	74-390N	TTL	LC11	Digital	DL	189	93S41PC	54-181	TTL	LC18	Digital	DL
80	74LS393DC	74-393N	TTL	LC11	Digital	DL	190	93S42DC	74-182	TTL	LC19	Digital	DL
81	74LS393PC	74-393N	TTL	LC11	Digital	DL	191	93S42DM	74-182	TTL	LC19	Digital	DL
82	74LS490PC	74-490N	TTL	LC11	Digital	DL	192	93S42DM	74-182	TTL	LC19	Digital	DL
83	74LS533DC	74LS533N	TTL	LC26	Digital	DL	193	93S42PC	54-182	TTL	LC19	Digital	DL
84	74LS533PC	74LS533N	TTL	LC26	Digital	DL	194	93S42PC	74-182	TTL	LC19	Digital	DL
85	74LS534DC	74LS534N	TTL	LC04	Digital	DL	195	96L02DC	45-28	TTL	LC10	Digital	DL
86	74LS534PC	74LS534N	TTL	LC04	Digital	DL	196	96L02DM	45-28	TTL	LC10	Digital	DL
87	74S00DC	74-00	TTL	LC05	Digital	DL	197	96L02FM	45-28	TTL	LC10	Digital	DL
88	74S00PC	74-00N	TTL	LC05	Digital	DL	198	96L02PC	45-28	TTL	LC10	Digital	DL
89	74S03DC	74-03N	TTL	LC05	Digital	DL	199	96L302DC	45-28	TTL	LC10	Digital	DL
90	74S03PC	74-03N	TTL	LC05	Digital	DL	200	96L302DM	45-28	TTL	LC10	Digital	DL
91	74S08DC	74-08N	TTL	LC05	Digital	DL	201	96L302FM	45-28	TTL	LC10	Digital	DL
92	74S08PC	74-08N	TTL	LC05	Digital	DL	202	96L302PC	45-28	TTL	LC10	Digital	DL
93	74S10DC	74-10N	TTL	LC05	Digital	DL	203	96S02DC	45-28	TTL	LC10	Digital	DL
94	74S10PC	74-10N	TTL	LC05	Digital	DL	204	96S02PC	45-28	TTL	LC10	Digital	DL
95	74S11DC	74-11N	TTL	LC05	Digital	DL	205	883/400B	40-00	CMS	LC05	Digital	MO
96	74S11PC	74-11N	TTL	LC05	Digital	DL	206	883/400B	40-01	CMS	LC05	Digital	MO
97	74S15PC	74H15N	TTL	LC05	Digital	DL	207	883/4001UB	40-01	CMS	LC05	Digital	MO
98	74S20DC	74-13N	TTL	LC05	Digital	DL	208	883/4002B	40-02	CMS	LC05	Digital	MO
99	74S20PC	74-13N	TTL	LC05	Digital	DL	209	883/4008B	40-08	CMS	LC15	Digital	MO
100	74S22DC	74-22N	TTL	LC05	Digital	DL	210	883/4011B	40-11	CMS	LC05	Digital	MO
101	74S22PC	74-22N	TTL	LC05	Digital	DL	211	883/4011UB	40-11	CMS	LC05	Digital	MO
102	74S30DC	74-30N	TTL	LC05	Digital	DL	212	883/4012B	40-12	CMS	LC05	Digital	MO
103	74S30PC	74-30N	TTL	LC05	Digital	DL							

TYPE TO FUNCTIONAL EQUIVALENCE NUMBER

IN ORDER OF: (1) MFG TYPE NUMBER

LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GP E	LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GP E
1	883/4020B	40-20	CMS	LC11	Digital	MO	111	4017BPC	40-17B	CMS	LC11	Digital	.
2	883/4022B	40-22	CMS	LC11	Digital	MO	112	4018BDC	40-18B	CMS	LC11	Digital	DL
3	883/4023B	40-23	CMS	LC05	Digital	MO	113	4018BDM	40-18B	CMS	LC11	Digital	DL
4	883/4024B	40-24	CMS	LC11	Digital	MO	114	4018BFC	40-18B	CMS	LC11	Digital	FP
5	883/4025B	40-25	CMS	LC05	Digital	MO	115	4018BFM	40-18B	CMS	LC11	Digital	FP
6	883/4027B	40-27	CMS	LC04	Digital	MO	116	4018BPC	40-18B	CMS	LC11	Digital	.
7	883/4028B	40-28	CMS	LC06	Digital	MO	117	4020BDC	40-20B	CMS	LC11	Digital	DL
8	883/4029B	40-29	CMS	LC11	Digital	MO	118	4020BDM	40-20B	CMS	LC11	Digital	DL
9	883/4030B	74L86	CMS	LC05	Digital	MO	119	4020BFC	40-20B	CMS	LC11	Digital	FP
10	883/4040B	40-40	CMS	LC11	Digital	MO	120	4020BFM	40-20B	CMS	LC11	Digital	FP
11	883/4042B	40-42	CMS	LC26	Digital	MO	121	4020BPC	40-20B	CMS	LC11	Digital	.
12	883/4043B	40-43	CMS	LC26	Digital	MO	122	4022BDC	40-22B	CMS	LC11	Digital	DL
13	883/4044B	40-44	CMS	LC26	Digital	MO	123	4022BDM	40-22B	CMS	LC11	Digital	DL
14	883/4047B	40-47	CMS	LC12	Digital	DL	124	4022BFC	40-22B	CMS	LC11	Digital	FP
15	883/4060B	40-60	CMS	LC11	Digital	MO	125	4022BFM	40-22B	CMS	LC11	Digital	FP
16	883/4068B	40-68	CMS	LC05	Digital	MO	126	4022BPC	40-22B	CMS	LC11	Digital	.
17	883/4069UB	74-03	CMS	LC05	Digital	MO	127	4023A	40-23B	CMS	LC05	Digital	DL
18	883/4070B	74L86	CMS	LC05	Digital	MO	128	4023BDC	40-23B	CMS	LC05	Digital	DL
19	883/4071B	40-71	CMS	LC05	Digital	MO	129	4023BDM	40-23B	CMS	LC05	Digital	DL
20	883/4072B	40-72	CMS	LC05	Digital	MO	130	4023BFC	40-23B	CMS	LC05	Digital	FL
21	883/4073B	40-73	CMS	LC05	Digital	MO	131	4023BFM	40-23B	CMS	LC05	Digital	FL
22	883/4075B	40-75	CMS	LC05	Digital	MO	132	4023BPC	40-23B	CMS	LC05	Digital	DL
23	883/4076B	74-173	CMS	LC04	Digital	MO	133	4024BDC	40-24B	CMS	LC11	Digital	DL
24	883/4077B	74LS266	CMS	LC05	Digital	MO	134	4024BDM	40-24B	CMS	LC11	Digital	DL
25	883/4078B	40-78	CMS	LC05	Digital	MO	135	4024BFC	40-24B	CMS	LC11	Digital	FP
26	883/4081B	40-81	CMS	LC05	Digital	MO	136	4024BFM	40-24B	CMS	LC11	Digital	FP
27	883/4082B	40-82	CMS	LC05	Digital	MO	137	4024BPC	40-24B	CMS	LC11	Digital	DL
28	883/4085B	40-85	CMS	LC05	Digital	MO	138	4025A	40-25B	CMS	LC05	Digital	DL
29	883/4086B	40-86	CMS	LC05	Digital	MO	139	4025BDC	40-25B	CMS	LC05	Digital	DL
30	883/4093BC	40-11	CMS	LC05	Digital	MO	140	4025BDM	40-25B	CMS	LC05	Digital	DL
31	883/4093BD	40-11	CMS	LC05	Digital	DL	141	4025BFC	40-25B	CMS	LC05	Digital	FL
32	883/4093BE	40-11B	CMS	LC05	Digital	MO	142	4025BFM	40-25B	CMS	LC05	Digital	FL
33	883/4093BF	40-11	CMS	LC05	Digital	FL	143	4025BPC	40-25B	CMS	LC05	Digital	DL
34	883/4093BH	40-11	CMS	LC05	Digital	CH	144	4027B	40-27B	CMS	LC04	Digital	DL
35	883/4099B	40-99	CMS	LC26	Digital	MO	145	4027BDC	40-27B	CMS	LC04	Digital	DL
36	883/4160B	74-160	CMS	LC11	Digital	MO	146	4027BDM	40-27B	CMS	LC04	Digital	DL
37	883/4161B	74-161	CMS	LC11	Digital	MO	147	4027BFC	40-27B	CMS	LC04	Digital	FP
38	883/4162B	74-162	CMS	LC11	Digital	MO	148	4027BFM	40-27B	CMS	LC04	Digital	FP
39	883/4163B	74-163	CMS	LC11	Digital	MO	149	4027BPC	40-27B	CMS	LC04	Digital	.
40	883/4174B	74-174	CMS	LC04	Digital	MO	150	4028BDC	40-28B	CMS	LC06	Digital	DL
41	883/4192B	74-192	CMS	LC11	Digital	MO	151	4028BDM	40-28B	CMS	LC06	Digital	DL
42	883/4193B	74-193	CMS	LC11	Digital	MO	152	4028BFC	40-28B	CMS	LC06	Digital	FL
43	883/4402B	44-02	CMS	LC05	Digital	MO	153	4028BFM	40-28B	CMS	LC06	Digital	FL
44	883/4404B	44-04	CMS	LC11	Digital	MO	154	4028BPC	40-28B	CMS	LC06	Digital	.
45	883/4412B	44-12	CMS	LC05	Digital	MO	155	4029BDC	40-29B	CMS	LC11	Digital	DL
46	883/4428B	44-28	CMS	LC06	Digital	MO	156	4029BDM	40-29B	CMS	LC11	Digital	DL
47	883/4449UB	40-09	CMS	LC05	Digital	MO	157	4029BFC	40-29B	CMS	LC11	Digital	FP
48	883/4508B	45-08	CMS	LC26	Digital	MO	158	4029BFM	40-29B	CMS	LC11	Digital	FP
49	883/4510B	45-10	CMS	LC11	Digital	MO	159	4029BPC	40-29B	CMS	LC11	Digital	.
50	883/4514B	45-14	CMS	LC06	Digital	MO	160	4030BDC	40-30B	CMS	LC05	Digital	DL
51	883/4515B	45-15	CMS	LC06	Digital	MO	161	4030BDM	74L86N	CMS	LC05	Digital	DL
52	883/4516B	45-16	CMS	LC11	Digital	MO	162	4030BFC	54L86T	CMS	LC05	Digital	FL
53	883/4518B	45-18	CMS	LC11	Digital	MO	163	4030BFM	54L86T	CMS	LC05	Digital	FL
54	883/4520B	45-20	CMS	LC11	Digital	MO	164	4030BPC	74L86N	CMS	LC05	Digital	DL
55	883/4522B	45-22	CMS	LC11	Digital	MO	165	4040BDC	40-40B	CMS	LC11	Digital	DL
56	883/4526B	45-26	CMS	LC11	Digital	MO	166	4040BDM	40-40B	CMS	LC11	Digital	DL
57	883/4528B	45-28	CMS	LC12	Digital	DL	167	4040BFC	40-40B	CMS	LC11	Digital	FP
58	883/4531B	45-31	CMS	LC25	Digital	MO	168	4040BFM	40-40B	CMS	LC11	Digital	FP
59	883/4555B	45-55	CMS	LC06	Digital	MO	169	4040BPC	40-40B	CMS	LC11	Digital	.
60	883/4556B	74S139	CMS	LC06	Digital	MO	170	4042BDC	40-42B	CMS	LC26	Digital	DL
61	883/4581B	74-181	CMS	LC18	Digital	MO	171	4042BDM	40-42B	CMS	LC26	Digital	DL
62	883/4582B	74-182	CMS	LC19	Digital	MO	172	4042BFC	40-42B	CMS	LC26	Digital	FL
63	883/4585B	45-85	CMS	LC17	Digital	MO	173	4042BFM	40-42B	CMS	LC26	Digital	FL
64	941DM	74-05N	DTL	LC10	Digital	DL	174	4042BPC	40-42B	CMS	LC26	Digital	.
65	941FM	54S05W	DTL	LC10	Digital	FL	175	4043BDC	40-43B	CMS	LC26	Digital	DL
66	946DM	74-00N	DTL	LC05	Digital	DL	176	4043BDM	40-43B	CMS	LC26	Digital	DL
67	946FM	54S00W	DTL	LC05	Digital	FL	177	4043BFC	40-43B	CMS	LC26	Digital	FL
68	949DC	74-00N	DTL	LC05	Digital	DL	178	4043BFM	40-43B	CMS	LC26	Digital	FL
69	949DM	74-00N	DTL	LC05	Digital	DL	179	4044BDC	40-44B	CMS	LC26	Digital	DL
70	949FM	54S00W	DTL	LC05	Digital	FL	180	4044BDM	40-44B	CMS	LC26	Digital	DL
71	962DM	74-10N	DTL	LC05	Digital	DL	181	4044BFC	40-44B	CMS	LC26	Digital	FL
72	962FM	54S10W	DTL	LC05	Digital	FL	182	4044BFM	40-44B	CMS	LC26	Digital	FL
73	963DC	74-10N	DTL	LC05	Digital	DL	183	4044BPC	40-44B	CMS	LC26	Digital	.
74	963DM	74-10N	DTL	LC05	Digital	DL	184	4047BDC	40-47	CMS	LC12	Digital	DL
75	4001BDC	40-01B	CMS	LC05	Digital	DL	185	4047BDM	40-47	CMS	LC12	Digital	DL
76	4001BDM	40-01B	CMS	LC05	Digital	DL	186	4047BFC	40-47	CMS	LC12	Digital	FL
77	4001BFC	40-01B	CMS	LC05	Digital	FL	187	4047BFM	40-47	CMS	LC12	Digital	FL
78	4001BFM	40-01B	CMS	LC05	Digital	FL	188	4047BPC	40-47	CMS	LC12	Digital	DL
79	4001BPC	40-01B	CMS	LC05	Digital	DL	189	4068BDC	40-68B	CMS	LC05	Digital	DL
80	4002A	40-02	CMS	LC05	Digital	DL	190	4068BDM	40-68B	CMS	LC05	Digital	DL
81	4002BDC	40-02B	CMS	LC05	Digital	DL	191	4068BFC	40-68B	CMS	LC05	Digital	FL
82	4002BDM	40-02B	CMS	LC05	Digital	DL	192	4068BFM	40-68B	CMS	LC05	Digital	FL
83	4002BFC	40-02B	CMS	LC05	Digital	FL	193	4068BPC	40-68B	CMS	LC05	Digital	DL
84	4002BFM	40-02B	CMS	LC05	Digital	FL	194	4070BDC	74L86N	CMS	LC05	Digital	DL
85	4002BPC	40-02B	CMS	LC05	Digital	DL	195	4070BDM	74L86N	CMS	LC05	Digital	DL
86	4008BDM	40-08B	CMS	LC15	Digital	DL	196	4070BFC	54L86T	CMS	LC05	Digital	FL
87	4008BFC	40-08B	CMS	LC15	Digital	FL	197	4070BFM	54L86T	CMS	LC05	Digital	FL
88	4008BFM	40-08B	CMS	LC15	Digital	FL	198	4070BPC	74L86N	CMS	LC05	Digital	DL
89	4008BPC	40-08B	CMS	LC15	Digital	.	199	4071BDC	40-71B	CMS	LC05	Digital	DL
90	4011A	40-11B	CMS	LC05	Digital	DL	200	4071BDM	40-71B	CMS	LC05	Digital	DL
91	4011BDC	40-11B	CMS	LC05	Digital	DL	201	4071BFC	40-71B	CMS	LC05	Digital	FL
92	4011BDM	40-11B	CMS	LC05	Digital	DL	202	4071BFM	40-71B	CMS	LC05	Digital	FL
93	4011BFC	40-11B	CMS	LC05	Digital	FL	203	4071BPC	40-71B	CMS	LC05	Digital	DL
94	4011BFM	40-11B	CMS	LC05	Digital	FL	204	4072BDC	40-72B	CMS	LC05	Digital	DL
95	4011BPC	40-11B	CMS	LC05	Digital	DL	205	4072BDM	40-72B	CMS	LC05	Digital	DL
96	4012A	40-12B	CMS	LC05	Digital	DL	206	4072BFC	40-72B	CMS	LC05	Digital	FL
97	4012BDC	40-12B	CMS	LC05	Digital	DL	207	4072BFM	40-72B	CMS	LC05	Digital	FL
98	4012BDM	40-12B	CMS	LC05	Digital	DL	208	4072BPC	40-72B	CMS	LC05	Digital	DL
99	4012BFC	40-12B	CMS	LC05	Digital	FL	209	4073BDC	40-73B	CMS	LC05	Digital	DL
100	4012BFM	40-12B	CMS	LC05	Digital	FL	210	4073BDM	40-73B	CMS	LC05	Digital	DL
101	4012BPC	40-12B	CMS	LC05	Digital	DL	211	4073BFC	40-73B	CMS	LC05	Digital	DL
102	4013BDC	40-13B	CMS	LC04	Digital	DL	212	4075BDC	40-75B	CMS	LC05	Digital	DL
103	4013BDM	40-13B	CMS	LC04	Digital	DL							

TYPE TO FUNCTIONAL EQUIVALENCE NUMBER

IN ORDER OF: (1) MFG TYPE NUMBER

LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY G P E	LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY G P E
1	4078BDC	40-78B	CMS	LC05	Digital	DL	111	5473DM	74-73N	TTL	LC04	Digital	DL
2	4078BDM	40-78B	CMS	LC05	Digital	DL	112	5473FM	54-73W	TTL	LC04	Digital	DL
3	4078BFC	40-78B	CMS	LC05	Digital	FL	113	5474DM	74-74N	TTL	LC04	Digital	DL
4	4078BFM	40-78B	CMS	LC05	Digital	FL	114	5474FM	54-74W	TTL	LC04	Digital	DL
5	4078BPC	40-78B	CMS	LC05	Digital	DL	115	5475DM	74-75N	TTL	LC26	Digital	DL
6	4081BDC	40-81B	CMS	LC05	Digital	DL	116	5475FM	54-75W	TTL	LC26	Digital	DL
7	4081BDM	40-81B	CMS	LC05	Digital	DL	117	5476DM	74LS76N	TTL	LC04	Digital	DL
8	4081BFC	40-81B	CMS	LC05	Digital	FL	118	5476FM	54LS76W	TTL	LC04	Digital	DL
9	4081BFM	40-81B	CMS	LC05	Digital	FL	119	5477FM	54-77W	TTL	LC26	Digital	DL
10	4081BPC	40-81B	CMS	LC05	Digital	DL	120	5480FM	54-80W	TTL	LC15	Digital	DL
11	4082BDC	40-82B	CMS	LC05	Digital	DL	121	5482FM	54-82W	TTL	LC15	Digital	DL
12	4082BDM	40-82B	CMS	LC05	Digital	DL	122	5483ADM	74-83	TTL	LC15	Digital	DL
13	4082BFC	40-82B	CMS	LC05	Digital	FL	123	5483AFM	54-83	TTL	LC15	Digital	DL
14	4082BFM	40-82B	CMS	LC05	Digital	FL	124	5485DM	74-85N	TTL	LC17	Digital	DL
15	4082BPC	40-82B	CMS	LC05	Digital	DL	125	5485FM	54-85W	TTL	LC17	Digital	DL
16	4085BDC	40-85B	CMS	LC05	Digital	DL	126	5486DM	74-86N	TTL	LC05	Digital	DL
17	4085BDM	40-85B	CMS	LC05	Digital	DL	127	5486FM	54-86W	TTL	LC05	Digital	DL
18	4085BFC	40-85B	CMS	LC05	Digital	FL	128	5490ADM	74-90N	TTL	LC11	Digital	DL
19	4085BFM	40-85B	CMS	LC05	Digital	FL	129	5490AFM	54-90W	TTL	LC11	Digital	DL
20	4085BPC	40-85B	CMS	LC05	Digital	DL	130	5490DM	74-90N	TTL	LC11	Digital	DL
21	4086BDC	40-86B	CMS	LC05	Digital	DL	131	5492ADM	74-92N	TTL	LC11	Digital	DL
22	4086BDM	40-86B	CMS	LC05	Digital	DL	132	5492AFM	54-92W	TTL	LC11	Digital	DL
23	4086BFC	40-86B	CMS	LC05	Digital	FL	133	5493ADM	74LS93N	TTL	LC11	Digital	DL
24	4086BFM	40-86B	CMS	LC05	Digital	FL	134	5493AFM	54LS93	TTL	LC11	Digital	DL
25	4086BPC	40-86B	CMS	LC05	Digital	DL	135	7400DC	74-00N	TTL	LC05	Digital	DL
26	4510BDC	45-10B	CMS	LC11	Digital	DL	136	7400PC	74-00N	TTL	LC05	Digital	DL
27	4510BDM	45-10B	CMS	LC11	Digital	DL	137	7401DC	74-01N	TTL	LC05	Digital	DL
28	4510BFC	45-10B	CMS	LC11	Digital	FL	138	7401PC	74-01N	TTL	LC05	Digital	DL
29	4510BFM	45-10B	CMS	LC11	Digital	FL	139	7402DC	74-02N	TTL	LC05	Digital	DL
30	4516BDC	45-16B	CMS	LC11	Digital	DL	140	7402PC	74-02N	TTL	LC05	Digital	DL
31	4516BDM	45-16B	CMS	LC11	Digital	DL	141	7403DC	74-03N	TTL	LC05	Digital	DL
32	4516BFC	45-16B	CMS	LC11	Digital	FL	142	7403PC	74-03N	TTL	LC05	Digital	DL
33	4516BFM	45-16B	CMS	LC11	Digital	FL	143	7408DC	74-08N	TTL	LC05	Digital	DL
34	4516BPC	45-16B	CMS	LC11	Digital	DL	144	7408PC	74-08N	TTL	LC05	Digital	DL
35	4518BDC	45-18B	CMS	LC11	Digital	DL	145	7409DC	74-09N	TTL	LC05	Digital	DL
36	4518BDM	45-18B	CMS	LC11	Digital	DL	146	7409PC	74-09N	TTL	LC05	Digital	DL
37	4518BFC	45-18B	CMS	LC11	Digital	FL	147	7410DC	74-09N	TTL	LC05	Digital	DL
38	4518BFM	45-18B	CMS	LC11	Digital	FL	148	7410PC	74-09N	TTL	LC05	Digital	DL
39	4518BPC	45-18B	CMS	LC11	Digital	DL	149	7411DC	74-11N	TTL	LC05	Digital	DL
40	4520BDC	45-20B	CMS	LC11	Digital	DL	150	7411PC	74-11N	TTL	LC05	Digital	DL
41	4520BDM	45-20B	CMS	LC11	Digital	DL	151	7412DC	74-12N	TTL	LC05	Digital	DL
42	4520BFC	45-20B	CMS	LC11	Digital	FL	152	7420DC	74-13N	TTL	LC05	Digital	DL
43	4520BFM	45-20B	CMS	LC11	Digital	FL	153	7420PC	74-13N	TTL	LC05	Digital	DL
44	4520BPC	45-20B	CMS	LC11	Digital	DL	154	7421DC	74H21N	TTL	LC05	Digital	DL
45	4528BDC	45-28	CMS	LC10	Digital	DL	155	7421PC	74H21N	TTL	LC05	Digital	DL
46	4528BDM	45-28	CMS	LC10	Digital	DL	156	7422DC	74-22N	TTL	LC05	Digital	DL
47	4528BFC	45-28	CMS	LC10	Digital	FL	157	7422PC	74-22N	TTL	LC05	Digital	DL
48	4528BFM	45-28	CMS	LC10	Digital	FL	158	7423PC	74-23N	TTL	LC05	Digital	DL
49	4528BPC	45-28	CMS	LC10	Digital	DL	159	7425DC	74-25N	TTL	LC05	Digital	DL
50	4531BDC	45-31B	CMS	LC25	Digital	DL	160	7425PC	74-25N	TTL	LC05	Digital	DL
51	4531BDM	45-31B	CMS	LC25	Digital	DL	161	7426DC	74-03N	TTL	LC05	Digital	DL
52	4531BFC	45-31B	CMS	LC25	Digital	FL	162	7426PC	74-03N	TTL	LC05	Digital	DL
53	4531BFM	45-31B	CMS	LC25	Digital	FL	163	7427DC	74-27N	TTL	LC05	Digital	DL
54	4531BPC	45-31B	CMS	LC25	Digital	DL	164	7427PC	74-27N	TTL	LC05	Digital	DL
55	4582BFC	54-182	CMS	LC19	Digital	FL	165	7430DC	74-30N	TTL	LC05	Digital	DL
56	4582BFM	54-182	CMS	LC19	Digital	FL	166	7430PC	74-30N	TTL	LC05	Digital	DL
57	4582BPC	74-182	CMS	LC19	Digital	DL	167	7432DC	74-32N	TTL	LC05	Digital	DL
58	5400DM	74-00N	TTL	LC05	Digital	DL	168	7432PC	74-32N	TTL	LC05	Digital	DL
59	5400FM	54-00W	TTL	LC05	Digital	FL	169	7437DC	74-00N	TTL	LC05	Digital	DL
60	5401DM	74-01N	TTL	LC05	Digital	DL	170	7437PC	74-00N	TTL	LC05	Digital	DL
61	5401FM	54-01W	TTL	LC05	Digital	FL	171	7438DC	74-03N	TTL	LC05	Digital	DL
62	5402DM	74-02N	TTL	LC05	Digital	DL	172	7438PC	74-03N	TTL	LC05	Digital	DL
63	5402FM	54-02W	TTL	LC05	Digital	FL	173	7442ADC	74-42N	TTL	LC06	Digital	DL
64	5403DM	74-03N	TTL	LC05	Digital	DL	174	7442APC	74-42N	TTL	LC06	Digital	DL
65	5403FM	54S03W	TTL	LC05	Digital	FL	175	7445DC	74-45N	TTL	LC06	Digital	DL
66	5408DM	74-08N	TTL	LC05	Digital	DL	176	7445PC	74-45N	TTL	LC06	Digital	DL
67	5408FM	54S08W	TTL	LC05	Digital	FL	177	7450DC	74-50N	TTL	LC05	Digital	DL
68	5409DM	74-09N	TTL	LC05	Digital	DL	178	7450PC	74-50N	TTL	LC05	Digital	DL
69	5409FM	54S09W	TTL	LC05	Digital	FL	179	7451DC	74-50N	TTL	LC05	Digital	DL
70	5410DM	74-10N	TTL	LC05	Digital	DL	180	7451PC	74-50N	TTL	LC05	Digital	DL
71	5410FM	54-10	TTL	LC05	Digital	FL	181	7453DC	74-53N	TTL	LC05	Digital	DL
72	5411DM	74-11N	TTL	LC05	Digital	DL	182	7453PC	74-53N	TTL	LC05	Digital	DL
73	5411FM	54H11W	TTL	LC05	Digital	FL	183	7454DC	74-53N	TTL	LC05	Digital	DL
74	5412DM	74-12N	TTL	LC05	Digital	DL	184	7454PC	74-53N	TTL	LC05	Digital	DL
75	5412FM	54-12W	TTL	LC05	Digital	FL	185	7460DC	74-60N	TTL	LC05	Digital	DL
76	5420DM	74-13N	TTL	LC05	Digital	DL	186	7460PC	74-60N	TTL	LC05	Digital	DL
77	5420FM	54-20W	TTL	LC05	Digital	FL	187	7470PC	74-70N	TTL	LC04	Digital	DL
78	5421DM	74H21N	TTL	LC05	Digital	DL	188	7472DC	74L71N	TTL	LC04	Digital	DL
79	5421FM	54H21W	TTL	LC05	Digital	FL	189	7472PC	74L71N	TTL	LC04	Digital	DL
80	5422DM	74-22N	TTL	LC05	Digital	DL	190	7473DC	74-73	TTL	LC04	Digital	DL
81	5422FM	54-22W	TTL	LC05	Digital	FL	191	7473PC	74-73N	TTL	LC04	Digital	DL
82	5423FM	54-23W	TTL	LC05	Digital	FL	192	7474DC	74-74N	TTL	LC04	Digital	DL
83	5425DM	74-25N	TTL	LC05	Digital	DL	193	7474PC	74-74N	TTL	LC04	Digital	DL
84	5425FM	54-25W	TTL	LC05	Digital	FL	194	7475DC	74-75N	TTL	LC26	Digital	DL
85	5427DM	74-27N	TTL	LC05	Digital	DL	195#	7475PC	74-75N	TTL	LC04	Digital	DL
86	5427FM	54-27W	TTL	LC05	Digital	FL	196	7476DC	74LS76N	TTL	LC04	Digital	DL
87	5430DM	74-30	TTL	LC05	Digital	DL	197	7476PC	74LS76N	TTL	LC04	Digital	DL
88	5430FM	54-30W	TTL	LC05	Digital	FL	198	7483ADC	74-83	TTL	LC15	Digital	DL
89	5432DM	74-32N	TTL	LC05	Digital	DL	199	7483APC	74-83	TTL	LC15	Digital	DL
90	5432FM	54-32W	TTL	LC05	Digital	FL	200	7486DC	74-86N	TTL	LC05	Digital	DL
91	5437DM	74-00N	TTL	LC05	Digital	DL	201	7486PC	74-86N	TTL	LC05	Digital	DL
92	5437FM	54S00W	TTL	LC05	Digital	FL	202	7490ADC	74-90N	TTL	LC11	Digital	DL
93	5442ADM	74-42N	TTL	LC06	Digital	DL	203	7490APC	74-90N	TTL	LC11	Digital	DL
94	5442AFM	54LS42W	TTL	LC06	Digital	FL	204	7492ADC	74-92N	TTL	LC11	Digital	DL
95	5443AFM	54-43W	TTL	LC06	Digital	FL	205	7492APC	74-92N	TTL	LC11	Digital	DL
96	5444AFM	74-44N	TTL	LC06	Digital	DL	206	7493ADC	74LS93N	TTL	LC11	Digital	DL
97	5445DM	74-45N	TTL	LC06	Digital	DL	207	7493APC	74LS93N	TTL	LC11	Digital	DL
98	5450DM	74-50N	TTL	LC05	Digital	DL	208	9001DM	74-105N	TTL	LC04	Digital	DL
99	5450FM	54-50W	TTL	LC05	Digital	FL	209	9001FM	54-104W	TTL	LC04	Digital	DL
100	5451DM	74-50N	TTL	LC05	Digital	DL	210	9002DC	74-00N	TTL	LC05	Digital	DL
101	5451FM	54-51W	TTL	LC05	Digital	FL	211	9002DM	74-00N	TTL	LC05	Digital	DL
102	5453DM	74-53N	TTL	LC05	Digital	DL	212	9002FM	54S00W	TTL	LC05	Digital	DL
103	5453FM	54-53W	TTL	LC05	Digital	FL	213	9003DC	74-10N	TTL	LC05	Digital	DL
104	5454DM	74-53N	TTL	LC05	Digital	DL	214	9003DM	74-10N	TTL	LC05	Digital	DL
105	5454FM	54-54W	TTL	LC05	Digital	FL	215	9003FM	54S10W	TTL	LC05	Digital	DL
106	5460DM	74-60N	TTL	LC05	Digital	DL	216	900					

TYPE TO FUNCTIONAL EQUIVALENCE NUMBER

IN ORDER OF: (1) MFG TYPE NUMBER

LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GP E	LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GP E
1	9006DC	74-60N	TTL	LC05	Digital	DL	111	54161DM	74-161N	TTL	LC11	Digital	DL
2	9006DM	74-60N	TTL	LC05	Digital	DL	112	54161FM	54-161W	TTL	LC11	Digital	FP
3	9008DC	74H53N	TTL	LC05	Digital	DL	113	54162FM	54-162W	TTL	LC11	Digital	FP
4	9008DM	74H53N	TTL	LC05	Digital	DL	114	54163DM	74-163N	TTL	LC11	Digital	DL
5	9008FM	74H53	TTL	LC05	Digital	FL	115	54163FM	54-163W	TTL	LC11	Digital	FP
6	9012DC	74-03N	TTL	LC05	Digital	DL	116	54167FM	54-167	TTL	LC13	DIGITAL	FL
7	9012DM	74-03N	TTL	LC05	Digital	DL	117	54175DM	74-175N	TTL	LC04	Digital	DL
8	9012FM	54S03W	TTL	LC05	Digital	FL	118	54175FM	54-175W	TTL	LC04	Digital	FP
9	9024DC	74-109N	TTL	LC04	Digital	DL	119	54176DM	74-176N	TTL	LC11	Digital	DL
10	9024DM	74-109N	TTL	LC04	Digital	DL	120	54176FM	54-176W	TTL	LC11	Digital	FP
11	9024FM	54-109W	TTL	LC04	Digital	FL	121	54177DM	74-177N	TTL	LC11	Digital	DL
12	9308DC	74-116N	TTL	LC26	Digital	DL	122	54177FM	54-177W	TTL	LC11	Digital	FP
13	9308DM	74-116N	TTL	LC26	Digital	DL	123	54180DM	74-180N	TTL	LC25	Digital	DL
14	9308FM	54-116W	TTL	LC26	Digital	FL	124	54180FM	54-180W	TTL	LC25	Digital	FP
15	9308PC	74-116N	TTL	LC26	Digital	DL	125	54190FM	54-190W	TTL	LC11	Digital	FP
16	9310DC	74-160N	TTL	LC11	Digital	DL	126	54191DM	74-191N	TTL	LC11	Digital	DL
17	9310DM	74-160N	TTL	LC11	Digital	DL	127	54191FM	54-191W	TTL	LC11	Digital	FP
18	9310FM	54-160W	TTL	LC11	Digital	FL	128	54192DM	74-192N	TTL	LC11	Digital	DL
19	9310PC	74-160N	TTL	LC11	Digital	DL	129	54192FM	54-192W	TTL	LC11	Digital	FP
20	9311PC	74-154N	TTL	LC06	Digital	DL	130	54193DM	74-193N	TTL	LC11	Digital	DL
21	9315DC	74-41N	TTL	LC06	Digital	DL	131	54193FM	54-193W	TTL	LC11	Digital	FP
22	9315DM	74-41N	TTL	LC06	Digital	DL	132	54196DM	74-176	TTL	LC11	Digital	DL
23	9315FM	54-41w	TTL	LC06	Digital	FL	133	54196FM	54-176W	TTL	LC11	Digital	FP
24	9315PC	74-41N	TTL	LC06	Digital	*	134	54197DM	74-177N	TTL	LC11	Digital	DL
25	9316DC	74-161N	TTL	LC11	Digital	DL	135	54197FM	54-177W	TTL	LC11	Digital	FP
26	9316DM	74-161N	TTL	LC11	Digital	DL	136	74107DC	74-107N	TTL	LC04	Digital	DL
27	9316FM	54-161W	TTL	LC11	Digital	FL	137	74107PC	74-107N	TTL	LC04	Digital	DL
28	9316PC	74-161	TTL	LC11	Digital	DL	138	74121DC	74-121	TTL	LC10	Digital	DL
29	9334DC	74-259N	TTL	LC26	Digital	DL	139	74121PC	74-121	TTL	LC10	Digital	DL
30	9334DM	74-259N	TTL	LC26	Digital	DL	140	74122DC	74-122	TTL	LC10	Digital	DL
31	9334DM#	74-259N	TTL	LC26	Digital	DL	141	74122PC	74-122	TTL	LC10	Digital	DL
32	9334FM	54-259W	TTL	LC26	Digital	FL	142	74123DC	74-123	TTL	LC10	Digital	DL
33	9334FM#	54-259W	TTL	LC26	Digital	FL	143	74123PC	74-123	TTL	LC10	Digital	DL
34	9334PC	74-259N	TTL	LC26	Digital	*	144	74141DC	74-41N	TTL	LC06	Digital	DL
35	9341DC	74-181	TTL	LC18	Digital	DL	145	74145DC	74-45N	TTL	LC06	Digital	DL
36	9341DM	54-181	TTL	LC18	Digital	DL	146	74145PC	74-45N	TTL	LC06	Digital	DL
37	9341FM	54-181	TTL	LC18	Digital	FL	147	74154DC	74-154N	TTL	LC06	Digital	DL
38	9341PC	74-181	TTL	LC18	Digital	DL	148	74154PC	74-154N	TTL	LC06	Digital	DL
39	9342DC	74-182	TTL	LC19	Digital	DL	149	74160DC	74-160N	TTL	LC11	Digital	DL
40	9342DM	74-182	TTL	LC19	Digital	DL	150	74160PC	74-160N	TTL	LC11	Digital	DL
41	9342FM	54-182	TTL	LC19	Digital	FL	151	74161DC	74-161N	TTL	LC11	Digital	DL
42	9342PC	74-182	TTL	LC19	Digital	*	152	74161PC	74-161N	TTL	LC11	Digital	DL
43	9352FM	54LS42W	TTL	LC06	Digital	FL	153	74162PC	74-162N	TTL	LC11	Digital	DL
44	9360DC	74-192N	TTL	LC11	Digital	DL	154	74163DC	74-163N	TTL	LC11	Digital	DL
45	9360DM	74-192N	TTL	LC11	Digital	DL	155	74163PC	74-163N	TTL	LC11	Digital	DL
46	9360FM	54-192W	TTL	LC11	Digital	FL	156#	74167PC	74-167	TTL	LC11	Digital	DL
47	9360PC	74-192N	TTL	LC11	Digital	DL	157	74175DC	74-175N	TTL	LC04	Digital	DL
48	9366DC	74-193N	TTL	LC11	Digital	DL	158	74175PC	74-175N	TTL	LC04	Digital	DL
49	9366DM	74-193N	TTL	LC11	Digital	DL	159	74176DC	74-176N	TTL	LC11	Digital	DL
50	9366FM	54-193W	TTL	LC11	Digital	FL	160	74176PC	74-176N	TTL	LC11	Digital	DL
51	9366PC	74-193N	TTL	LC11	Digital	DL	161	74177DC	74-177N	TTL	LC11	Digital	DL
52	9602DC	45-28	TTL	LC10	Digital	DL	162	74177PC	74-177N	TTL	LC11	Digital	DL
53	9602DM	45-28	TTL	LC10	Digital	DL	163	74180DC	74-180N	TTL	LC25	Digital	DL
54	9602FM	45-28	TTL	LC10	Digital	FL	164	74180PC	74-180N	TTL	LC25	Digital	DL
55	9602PC	45-28	TTL	LC10	Digital	*	165	74181DC	74-181	TTL	LC18	Digital	DL
56 #	9946BC	74-00N	DTL	LC05	Digital	DL	166	74181PC	74-181	TTL	LC18	Digital	DL
57 #	9946DC	74-00N	DTL	LC05	Digital	DL	167	74190PC	74-190N	TTL	LC11	Digital	DL
58 #	9946DM	74-00N	DTL	LC05	Digital	DL	168	74191DC	74-191N	TTL	LC11	Digital	DL
59 #	9946FC	54S00W	DTL	LC05	Digital	FL	169	74191PC	74-191N	TTL	LC11	Digital	DL
60 #	9946FM	54S00W	DTL	LC05	Digital	FL	170	74192DC	74-192N	TTL	LC11	Digital	DL
61 #	9962BC	74-10N	DTL	LC05	Digital	DL	171	74192PC	74-192N	TTL	LC11	Digital	DL
62 #	9962DC	74-10N	DTL	LC05	Digital	DL	172	74193DC	74-193N	TTL	LC11	Digital	DL
63 #	9962DM	74-10N	DTL	LC05	Digital	DL	173	74193PC	74-193N	TTL	LC11	Digital	DL
64 #	9962FC	54S10W	DTL	LC05	Digital	FL	174	74196DC	74-176	TTL	LC11	Digital	DL
65 #	9962FM	54S10W	DTL	LC05	Digital	FL	175	74196PC	74-176N	TTL	LC11	Digital	FP
66	10181F	54-181	ECT	LC18	Digital	DL	176	74197DC	74-177N	TTL	LC11	Digital	DL
67	40160BDC	74-160N	CMS	LC11	Digital	DL	177	74197PC	74-177N	TTL	LC11	Digital	FP
68	40160BDM	74-160N	CMS	LC11	Digital	DL	178	74279PC	74-279N	TTL	LC26	Digital	DL
69	40160BFC	54-160W	CMS	LC11	Digital	FL	179	74283DC	74-283	TTL	LC15	Digital	DL
70	40160BFM	54-160W	CMS	LC11	Digital	FL	180	74283PC	74-283	TTL	LC15	Digital	DL
71	40160BPC	74-160N	CMS	LC11	Digital	*	181	74290PC	74-290N	TTL	LC11	Digital	DL
72	40161BDC	74-161N	CMS	LC11	Digital	DL	182	74293PC	74-293N	TTL	LC11	Digital	DL
73	40161BDM	74-161N	CMS	LC11	Digital	DL	183	AM25LS14DC	74LS384	TTL	LC16	Digital	DL
74	40161BFC	54-161W	CMS	LC11	Digital	FL	184	AM25LS14DM	74LS384	TTL	LC16	Digital	DL
75	40161BFM	54-161W	CMS	LC11	Digital	*	185	AM25LS14PC	74LS384	TTL	LC16	Digital	DL
76	40161BPC	74-161N	CMS	LC11	Digital	*	186	AM25LS15DC	74LS385N	TTL	LC15	Digital	DL
77	40162BDC	74-162N	CMS	LC11	Digital	DL	187	AM25LS15DM	74LS385N	TTL	LC15	Digital	DL
78	40162BDM	74-162N	CMS	LC11	Digital	DL	188	AM25LS15FM	54LS385W	TTL	LC15	Digital	FL
79	40162BFC	54-162W	CMS	LC11	Digital	FL	189	AM25LS15PC	74LS385N	TTL	LC15	Digital	DL
80	40162BFM	54-162W	CMS	LC11	Digital	FL	190	AM25LS138DC	74S138N	TTL	LC06	Digital	DL
81	40162BPC	74-162N	CMS	LC11	Digital	*	191	AM25LS138DM	74S138N	TTL	LC06	Digital	DL
82	40163BDC	74-163N	CMS	LC11	Digital	DL	192	AM25LS138FM	54S138W	TTL	LC06	Digital	FL
83	40163BDM	74-163N	CMS	LC11	Digital	DL	193	AM25LS138PC	74S138N	TTL	LC06	Digital	DL
84	40163BFC	54-163W	CMS	LC11	Digital	FL	194	AM25LS160DC	74-160N	TTL	LC11	Digital	DL
85	40163BFM	54-163W	CMS	LC11	Digital	FL	195	AM25LS160DM	74-160N	TTL	LC11	Digital	FP
86	40163BPC	74-163N	CMS	LC11	Digital	*	196	AM25LS160FM	54-160W	TTL	LC11	Digital	FP
87	40192BDC	74-192N	CMS	LC11	Digital	DL	197	AM25LS160PC	74-160N	TTL	LC11	Digital	DL
88	40192BDM	74-192N	CMS	LC11	Digital	DL	198	AM25LS161DC	74-161N	TTL	LC11	Digital	DL
89	40192BFC	54-192W	CMS	LC11	Digital	FL	199	AM25LS161DM	54-161W	TTL	LC11	Digital	FP
90	40192BFM	54-192W	CMS	LC11	Digital	FL	200	AM25LS161FM	74-161N	TTL	LC11	Digital	DL
91	40192BPC	74-192N	CMS	LC11	Digital	*	201	AM25LS161PC	74-161N	TTL	LC11	Digital	DL
92	40193BDC	74-193	CMS	LC11	Digital	DL	202	AM25LS162DC	74-182N	TTL	LC11	Digital	DL
93	40193BDM	74-193	CMS	LC11	Digital	DL	203	AM25LS162DM	54-162W	TTL	LC11	Digital	FP
94	40193BFC	54-193W	CMS	LC11	Digital	FL	204	AM25LS162FM	74-162N	TTL	LC11	Digital	DL
95	40193BFM	54-193W	CMS	LC11	Digital	FL	205	AM25LS162PC	74-162N	TTL	LC11	Digital	DL
96	40193BPC	74-193	CMS	LC11	Digital	*	206	AM25LS163DC	74-163N	TTL	LC11	Digital	DL
97	54107DM	74-107N	TTL	LC04	Digital	DL	207	AM25LS163DM	74-163N	TTL	LC11	Digital	FP
98	54107FM	54-107F	TTL	LC04	Digital	FL	208	AM25LS163FM	74-163N	TTL	LC11	Digital	DL
99	54121DM	74-121	TTL	LC10	Digital	DL	209	AM25LS163PC	74-163N	TTL	LC11	Digital	DL
100	54121FM	54-121	TTL	LC10	Digital	FL	210	AM25LS181FM	54-181	TTL	LC18	Digital	FL
101	54122DM	74-122	TTL	LC10	Digital	DL	211	AM25LS190DC	74-190N	TTL	LC11	Digital	DL
102	54122FM	54-122	TTL	LC10	Digital	FL	212	AM25LS190DM	74-190N	TTL	LC11	Digital	DL</

TYPE TO FUNCTIONAL EQUIVALENCE NUMBER

IN ORDER OF: (1) MFG TYPE NUMBER

LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GP E	LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GP E
1	AM25LS192FM	54-192w	TTL	LC11	Digital	FP	111	CD4011AF	40-11B	CMS	LC05	Digital	MO
2	AM25LS192PC	74-192N	TTL	LC11	Digital	DL	112	CD4011BCJ	40-11B	CMS	LC05	Digital	DL
3	AM25LS193DC	74-193N	TTL	LC11	Digital	DL	113	CD4011BCN	40-11B	CMS	LC05	Digital	DL
4	AM25LS193DM	74-193N	TTL	LC11	Digital	DL	114	CD4011BD	40-11B	CMS	LC05	Digital	MO
5	AM25LS193FM	54-193W	TTL	LC11	Digital	FP	115	CD4011BE	40-11B	CMS	LC05	Digital	MO
6	AM25LS193PC	74-193N	TTL	LC11	Digital	DL	116	CD4011BF	40-11B	CMS	LC05	Digital	MO
7	AM25LS373DC	74LS363N	TTL	LC26	Digital	DL	117	CD4011BMJ	40-11B	CMS	LC05	Digital	DL
8	AM25LS373DM	74LS363N	TTL	LC26	Digital	DL	118	CD4011BMW	40-11B	CMS	LC05	Digital	FL
9	AM25LS373FM	54LS363W	TTL	LC26	Digital	FL	119	CD4011CJ	40-11B	CMS	LC05	Digital	DL
10	AM25LS373PC	74LS363N	TTL	LC26	Digital	DL	120	CD4011CN	40-11B	CMS	LC05	Digital	DL
11	AM25LS381DC	74S381	TTL	LC18	Digital	DL	121	CD4011MJ	40-11B	CMS	LC05	Digital	DL
12	AM25LS381DM	74S381	TTL	LC18	Digital	DL	122	CD4011MW	40-11B	CMS	LC05	Digital	FL
13	AM25LS381FM	74S381	TTL	LC18	Digital	FL	123	CD4011UBD	40-11B	CMS	LC05	Digital	MO
14	AM25LS381PC	74S381	TTL	LC18	Digital	DL	124	CD4011UBE	40-11B	CMS	LC05	Digital	MO
15	AM25LS533DC	74LS533N	TTL	LC26	Digital	DL	125	CD4011UBF	40-11B	CMS	LC05	Digital	MO
16	AM25LS533DM	74LS533N	TTL	LC26	Digital	DL	126	CD4012AD	40-12B	CMS	LC05	Digital	MO
17	AM25LS533FM	54LS533W	TTL	LC26	Digital	FL	127	CD4012AE	40-12B	CMS	LC05	Digital	MO
18	AM25LS2516DC	74-558	TTL	LC16	Digital	DL	128	CD4012AF	40-12B	CMS	LC05	Digital	MO
19	AM25LS2516DM	74-558	TTL	LC16	Digital	DL	129	CD4012BD	40-12B	CMS	LC05	Digital	MO
20	AM25LS2517DC	74LS982	TTL	LC18	Digital	DL	130	CD4012BE	40-12B	CMS	LC05	Digital	MO
21	AM25LS2517DM	74LS982	TTL	LC18	Digital	DL	131	CD4012BF	40-12B	CMS	LC05	Digital	MO
22	AM25LS2517FM	54LS982	TTL	LC18	Digital	FL	132	CD4012CJ	40-12B	CMS	LC05	Digital	DL
23	AM25LS2517PC	74LS982	TTL	LC18	Digital	DL	133	CD4012CN	40-12B	CMS	LC05	Digital	DL
24	AM25LS2568FM	54LS568w	TTL	LC11	Digital	FP	134	CD4012MJ	40-12B	CMS	LC05	Digital	DL
25	AM25LS2569DC	74LS569N	TTL	LC11	Digital	DL	135	CD4012MW	40-12B	CMS	LC05	Digital	FL
26	AM25LS2569DM	74LS569N	TTL	LC11	Digital	DL	136	CD4012UBD	40-12B	CMS	LC05	Digital	MO
27	AM25LS2569FM	54-569w	TTL	LC11	Digital	FP	137	CD4012UBE	40-12B	CMS	LC05	Digital	MO
28	AM25LS2569PC	74LS569N	TTL	LC11	Digital	DL	138	CD4012UBF	40-12B	CMS	LC05	Digital	MO
29	AM26L02DC	45-28	TTL	LC10	Digital	DL	139	CD4013AD	40-13B	CMS	LC04	Digital	MO
30	AM26L02DM	45-28	TTL	LC10	Digital	DL	140	CD4013AE	40-13B	CMS	LC04	Digital	MO
31	AM26L02FM	45-28	TTL	LC10	Digital	FL	141	CD4013AF	40-13B	CMS	LC04	Digital	MO
32	AM26L02PC	45-28	TTL	LC10	Digital	DL	142	CD4013BCJ	40-13B	CMS	LC04	Digital	DL
33	AM26S02DC	45-28	TTL	LC10	Digital	DL	143	CD4013BCN	40-13B	CMS	LC04	Digital	DL
34	AM26S02DM	45-28	TTL	LC10	Digital	DL	144	CD4013BD	40-13B	CMS	LC04	Digital	MO
35	AM26S02FM	45-28	TTL	LC10	Digital	FL	145	CD4013BE	40-13B	CMS	LC04	Digital	MO
36	AM26S02PC	45-28	TTL	LC10	Digital	DL	146	CD4013BMJ	40-13B	CMS	LC04	Digital	DL
37	AM54LS373J	74LS363N	TTL	LC26	Digital	DL	147	CD4013BMW	40-13B	CMS	LC04	Digital	FP
38	AM54LS533J	74LS533N	TTL	LC26	Digital	DL	148	CD4017AD	40-17B	CMS	LC11	Digital	MO
39	AM54LS533W	54LS533W	TTL	LC26	Digital	FL	149	CD4017AE	40-17B	CMS	LC11	Digital	MO
40	AM74LS373J	74LS363N	TTL	LC26	Digital	DL	150	CD4017AF	40-17B	CMS	LC11	Digital	MO
41	AM74LS373N	74LS363N	TTL	LC26	Digital	DL	151	CD4017BCJ	40-17B	CMS	LC11	Digital	DL
42	AM74LS533J	74LS533N	TTL	LC26	Digital	DL	152	CD4017BCN	40-17B	CMS	LC11	Digital	DL
43	AM74LS533N	74LS533N	TTL	LC26	Digital	DL	153	CD4017BD	40-17B	CMS	LC11	Digital	MO
44	AM93L34DC	74-259N	TTL	LC26	Digital	DL	154	CD4017BE	40-17B	CMS	LC11	Digital	MO
45	AM93L34DM	74-259N	TTL	LC26	Digital	DL	155	CD4017BF	40-17B	CMS	LC11	Digital	MO
46	AM93L34FM	54-259W	TTL	LC26	Digital	FL	156	CD4017BMJ	40-17B	CMS	LC11	Digital	DL
47	AM93L34PC	74-259N	TTL	LC26	Digital	DL	157	CD4017BMW	40-17B	CMS	LC11	Digital	FP
48	AM2602DC	45-28	TTL	LC10	Digital	DL	158	CD4018AD	40-18B	CMS	LC11	Digital	MO
49	AM2602DM	45-28	TTL	LC10	Digital	DL	159	CD4018AE	40-18B	CMS	LC11	Digital	MO
50	AM2602FM	45-28	TTL	LC10	Digital	FL	160	CD4018AF	40-18B	CMS	LC11	Digital	MO
51	AM2602PC	45-28	TTL	LC10	Digital	DL	161	CD4018BCJ	40-18B	CMS	LC11	Digital	DL
52	AM9334DC	74-259N	TTL	LC26	Digital	DL	162	CD4018BCN	40-18B	CMS	LC11	Digital	DL
53	AM9334DM	74-259N	TTL	LC26	Digital	DL	163	CD4018BD	40-18B	CMS	LC11	Digital	MO
54	AM9334FM	54-259W	TTL	LC26	Digital	FL	164	CD4018BE	40-18B	CMS	LC11	Digital	MO
55	AM9334PC	74-259N	TTL	LC26	Digital	DL	165	CD4018BF	40-18B	CMS	LC11	Digital	MO
56	AM26123DC	74-123	TTL	LC10	Digital	DL	166	CD4018BMJ	40-18B	CMS	LC11	Digital	DL
57	AM26123DM	74-123	TTL	LC10	Digital	DL	167	CD4018BMW	40-18B	CMS	LC11	Digital	FP
58	AM26123FM	54-123	TTL	LC10	Digital	FL	168	CD4019BC	40-19B	CMS	LC05	Digital	MO
59	AM26123PC	74-123	TTL	LC10	Digital	DL	169	CD4019BD	40-19B	CMS	LC05	Digital	DL
60	AMZ8133	74LS363N	TTL	LC26	Digital	DL	170	CD4019BE	40-19B	CMS	LC05	Digital	DL
61	CD4000AD	40-00B	CMS	LC05	Digital	MO	171	CD4019BF	40-19B	CMS	LC05	Digital	DL
62	CD4000AE	40-00B	CMS	LC05	Digital	MO	172	CD4019BM	40-19B	CMS	LC05	Digital	MO
63	CD4000AF	40-00B	CMS	LC05	Digital	MO	173	CD4020AD	40-20B	CMS	LC11	Digital	MO
64	CD4000BD	40-00B	CMS	LC05	Digital	MO	174	CD4020AE	40-20B	CMS	LC11	Digital	MO
65	CD4000BE	40-00B	CMS	LC05	Digital	MO	175	CD4020AF	40-20B	CMS	LC11	Digital	MO
66	CD4000BF	40-00B	CMS	LC05	Digital	MO	176	CD4020BCJ	40-20B	CMS	LC11	Digital	DL
67	CD4000CJ	40-00B	CMS	LC05	Digital	DL	177	CD4020BCN	40-20B	CMS	LC11	Digital	DL
68	CD4000CN	40-00B	CMS	LC05	Digital	DL	178	CD4020BD	40-20B	CMS	LC11	Digital	MO
69	CD4000MJ	40-00B	CMS	LC05	Digital	DL	179	CD4020BE	40-20B	CMS	LC11	Digital	MO
70	CD4000MW	40-00B	CMS	LC05	Digital	FL	180	CD4020BF	40-20B	CMS	LC11	Digital	MO
71	CD4000UBD	40-00B	CMS	LC05	Digital	MO	181	CD4020BMJ	40-20B	CMS	LC11	Digital	MO
72	CD4000UBE	40-00B	CMS	LC05	Digital	MO	182	CD4020BMW	40-20B	CMS	LC11	Digital	FP
73	CD4000UBF	40-00B	CMS	LC05	Digital	MO	183	CD4022AD	40-22B	CMS	LC11	Digital	MO
74	CD4001AD	40-01B	CMS	LC05	Digital	MO	184	CD4022AE	40-22B	CMS	LC11	Digital	MO
75	CD4001AE	40-01B	CMS	LC05	Digital	MO	185	CD4022AF	40-22B	CMS	LC11	Digital	MO
76	CD4001AF	40-01B	CMS	LC05	Digital	MO	186	CD4022BCJ	40-22B	CMS	LC11	Digital	DL
77	CD4001BCJ	40-01B	CMS	LC05	Digital	DL	187	CD4022BCN	40-22B	CMS	LC11	Digital	DL
78	CD4001BCN	40-01B	CMS	LC05	Digital	DL	188	CD4022BD	40-22B	CMS	LC11	Digital	MO
79	CD4001BD	40-01B	CMS	LC05	Digital	MO	189	CD4022BE	40-22B	CMS	LC11	Digital	MO
80	CD4001BMJ	40-01B	CMS	LC05	Digital	DL	190	CD4022BF	40-22B	CMS	LC11	Digital	MO
81	CD4001BMW	40-01B	CMS	LC05	Digital	FL	191	CD4022BMJ	40-22B	CMS	LC11	Digital	DL
82	CD4001CJ	40-01B	CMS	LC05	Digital	DL	192	CD4022BMW	40-22B	CMS	LC11	Digital	FP
83	CD4001CN	40-01B	CMS	LC05	Digital	DL	193	CD4023AD	40-23B	CMS	LC05	Digital	MO
84	CD4001MJ	40-01B	CMS	LC05	Digital	DL	194	CD4023AE	40-23B	CMS	LC05	Digital	MO
85	CD4001MW	40-01B	CMS	LC05	Digital	FL	195	CD4023AF	40-23B	CMS	LC05	Digital	MO
86	CD4001UBD	40-01B	CMS	LC05	Digital	MO	196	CD4023BCJ	40-23B	CMS	LC05	Digital	DL
87	CD4001UBE	40-01B	CMS	LC05	Digital	MO	197	CD4023BCN	40-23B	CMS	LC05	Digital	DL
88	CD4002AD	40-02B	CMS	LC05	Digital	MO	198	CD4023BD	40-23B	CMS	LC05	Digital	MO
89	CD4002AE	40-02B	CMS	LC05	Digital	MO	199	CD4023BE	40-23B	CMS	LC05	Digital	MO
90	CD4002AF	40-02B	CMS	LC05	Digital	MO	200	CD4023BF	40-23B	CMS	LC05	Digital	MO
91	CD4002BD	40-02B	CMS	LC05	Digital	MO	201	CD4023BMJ	40-23B	CMS	LC05	Digital	DL
92	CD4002BE	40-02B	CMS	LC05	Digital	MO	202	CD4023BMW	40-23B	CMS	LC05	Digital	FL
93	CD4002BF	40-02B	CMS	LC05	Digital	MO	203	CD4023CJ	40-23B	CMS	LC05	Digital	DL
94	CD4002CJ	40-02B	CMS	LC05	Digital	DL	204	CD4023CN	40-23B	CMS	LC05	Digital	DL
95	CD4002CN	40-02B	CMS	LC05	Digital	DL	205	CD4023MJ	40-23B	CMS	LC05	Digital	DL
96	CD4002MJ	40-02B	CMS	LC05	Digital	DL	206	CD4023MW	40-23B	CMS	LC05	Digital	FL
97	CD4002MW	40-02B	CMS	LC05	Digital	FL	207	CD4023UBD	40-23B	CMS	LC05	Digital	MO
98	CD4002UBD	40-02B	CMS	LC05	Digital	MO	208	CD4023UBE	40-23B	CMS	LC05	Digital	MO
99	CD4002UBE	40-02B	CMS	LC05	Digital	MO	209	CD4023UBF	40-23B	CMS	LC05	Digital	MO
100	CD4002UBF	40-02B	CMS	LC05	Digital	MO	210	CD4024AD	40-24B	CMS	LC11	Digital	MO
101	CD4008AD	40-08B	CMS	LC15	Digital	MO	211	CD4024AE	40-24B	CMS	LC11	Digital	MO
102	CD4008AE	40-08B	CMS	LC15	Digital	MO	212	CD4024AF	40-24B	CMS	LC11	Digital	MO
103	CD4008AF	40-08B	CMS	LC15	Digital	MO	213	CD4024BCJ	40-24B	CMS	LC11		

TYPE TO FUNCTIONAL EQUIVALENCE NUMBER

IN ORDER OF: (1) MFG TYPE NUMBER

LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GPE	LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GPE
1	CD4025BCJ	40-25B	CMS	LC05	Digital	DL	111	CD4044BF	40-44B	CMS	LC26	Digital	MO
2	CD4025BCN	40-25B	CMS	LC05	Digital	DL	112	CD4044CJ	40-44B	CMS	LC26	Digital	DL
3	CD4025BD	40-25B	CMS	LC05	Digital	DL	113	CD4044CN	40-44B	CMS	LC26	Digital	DL
4	CD4025BE	40-25B	CMS	LC05	Digital	MO	114	CD4044MJ	40-44B	CMS	LC26	Digital	DL
5	CD4025BF	40-25B	CMS	LC05	Digital	MO	115	CD4044MW	40-44B	CMS	LC26	Digital	FL
6	CD4025BMJ	40-25B	CMS	LC05	Digital	DL	116	CD4045AD	40-45	CMS	LC10	Digital	MO
7	CD4025BMW	40-25B	CMS	LC05	Digital	FL	117	CD4045AE	40-45	CMS	LC10	Digital	MO
8	CD4025CJ	40-25B	CMS	LC05	Digital	DL	118	CD4045AF	40-45	CMS	LC10	Digital	MO
9	CD4025CN	40-25B	CMS	LC05	Digital	DL	119	CD4045BD	40-45	CMS	LC10	Digital	MO
10	CD4025MJ	40-25B	CMS	LC05	Digital	DL	120	CD4045BE	40-45	CMS	LC10	Digital	MO
11	CD4025MW	40-25B	CMS	LC05	Digital	FL	121	CD4045BF	40-45	CMS	LC10	Digital	MO
12	CD4025UBD	40-25B	CMS	LC05	Digital	MO	122	CD4045BH	40-45	CMS	LC10	Digital	MO
13	CD4025UBE	40-25B	CMS	LC05	Digital	MO	123	CD4047AD	40-47	CMS	LC12	Digital	DL
14	CD4025UBF	40-25B	CMS	LC05	Digital	MO	124	CD4047AE	40-47	CMS	LC12	Digital	DL
15	CD4026AD	40-26B	CMS	LC11	Digital	MO	125	CD4047AF	40-47	CMS	LC12	Digital	DL
16	CD4026AE	40-26B	CMS	LC11	Digital	MO	126	CD4047BCJ	40-47	CMS	LC12	Digital	DL
17	CD4026AF	40-26B	CMS	LC11	Digital	MO	127	CD4047BCN	40-47	CMS	LC12	Digital	DL
18	CD4026BD	40-26B	CMS	LC11	Digital	MO	128	CD4047BE	40-47	CMS	LC12	Digital	DL
19	CD4026BE	40-26B	CMS	LC11	Digital	MO	129	CD4047BF	40-47	CMS	LC12	Digital	DL
20	CD4026BF	40-26B	CMS	LC11	Digital	MO	130	CD4047BMJ	40-47	CMS	LC12	Digital	DL
21	CD4026BH	40-26	CMS	LC11	Digital	CH	131	CD4047BMW	40-47	CMS	LC12	Digital	FL
22	CD4027AD	40-27B	CMS	LC04	Digital	MO	132	CD4048AD	40-48B	MOS	LC27	Digital	MO
23	CD4027AE	40-27B	CMS	LC04	Digital	MO	133	CD4048AE	40-48B	MOS	LC27	Digital	MO
24	CD4027AF	40-27B	CMS	LC04	Digital	MO	134	CD4048AF	40-48B	MOS	LC27	Digital	MO
25	CD4027BCJ	40-27B	CMS	LC04	Digital	DL	135	CD4048BCJ	40-48B	MOS	LC27	Digital	DL
26	CD4027BCN	40-27B	CMS	LC04	Digital	DL	136	CD4048BCN	40-48B	MOS	LC27	Digital	DL
27	CD4027BD	40-27B	CMS	LC04	Digital	MO	137	CD4048BD	40-48B	MOS	LC27	Digital	MO
28	CD4027BE	40-27B	CMS	LC04	Digital	MO	138	CD4048BE	40-48B	MOS	LC27	Digital	MO
29	CD4027BF	40-27B	CMS	LC04	Digital	MO	139	CD4048BF	40-48B	MOS	LC27	Digital	MO
30	CD4027BMJ	40-27B	CMS	LC04	Digital	DL	140	CD4048BH	40-48	MOS	LC27	Digital	CH
31	CD4027BMW	40-27B	CMS	LC04	Digital	FP	141	CD4048BMJ	40-48B	MOS	LC27	Digital	DL
32	CD4028AD	40-28B	CMS	LC06	Digital	MO	142	CD4048BMW	40-48B	MOS	LC27	Digital	FL
33	CD4028AE	40-28B	CMS	LC06	Digital	MO	143	CD4060AD	40-60B	CMS	LC11	Digital	MO
34	CD4028AF	40-28B	CMS	LC06	Digital	MO	144	CD4060AE	40-60B	CMS	LC11	Digital	MO
35	CD4028BD	40-28B	CMS	LC06	Digital	MO	145	CD4060AF	40-60B	CMS	LC11	Digital	MO
36	CD4028BE	40-28B	CMS	LC06	Digital	MO	146	CD4060BCJ	40-60B	CMS	LC11	Digital	DL
37	CD4028BF	40-28B	CMS	LC06	Digital	MO	147	CD4060BCN	40-60B	CMS	LC11	Digital	DL
38	CD4029AD	40-29B	CMS	LC11	Digital	MO	148	CD4060BD	40-60B	CMS	LC11	Digital	MO
39	CD4029AE	40-29B	CMS	LC11	Digital	MO	149	CD4060BE	40-60B	CMS	LC11	Digital	MO
40	CD4029AF	40-29B	CMS	LC11	Digital	MO	150	CD4060BF	40-60B	CMS	LC11	Digital	MO
41	CD4029BCJ	40-29B	CMS	LC11	Digital	DL	151	CD4060BMJ	40-60B	CMS	LC11	Digital	DL
42	CD4029BCN	40-29B	CMS	LC11	Digital	DL	152	CD4060BMW	40-60B	CMS	LC11	Digital	FP
43	CD4029BD	40-29B	CMS	LC11	Digital	MO	153	CD4063BD	40-63B	CMS	LC17	Digital	MO
44	CD4029BE	40-29B	CMS	LC11	Digital	MO	154	CD4063BE	40-63B	CMS	LC17	Digital	MO
45	CD4029BF	40-29B	CMS	LC11	Digital	MO	155	CD4063BF	40-63B	CMS	LC17	Digital	MO
46	CD4029BMJ	40-29B	CMS	LC11	Digital	DL	156	CD4068BD	40-68B	CMS	LC05	Digital	MO
47	CD4029BMW	40-29B	CMS	LC11	Digital	FP	157	CD4068BE	40-68B	CMS	LC05	Digital	MO
48	CD4030AD	741.86N	CMS	LC05	Digital	MO	158	CD4068BF	40-68B	CMS	LC05	Digital	MO
49	CD4030AE	741.86N	CMS	LC05	Digital	MO	159	CD4069CJ	74-04N	CMS	LC05	Digital	DL
50	CD4030AF	741.86N	CMS	LC05	Digital	MO	160	CD4069M	74-04N	CMS	LC05	Digital	DL
51	CD4030BD	741.86N	CMS	LC05	Digital	MO	161	CD4069UBD	74-04N	CMS	LC05	Digital	DL
52	CD4030BE	741.86N	CMS	LC05	Digital	MO	162	CD4069UBE	74-04N	CMS	LC05	Digital	DL
53	CD4030BF	741.86N	CMS	LC05	Digital	MO	163	CD4069UBF	74-04N	CMS	LC05	Digital	DL
54	CD4030CJ	741.86N	CMS	LC05	Digital	DL	164	CD4070BCJ	741.86N	CMS	LC05	Digital	DL
55	CD4030CN	741.86N	CMS	LC05	Digital	DL	165	CD4070BCN	741.86N	CMS	LC05	Digital	DL
56	CD4030MJ	741.86N	CMS	LC05	Digital	DL	166	CD4070BD	741.86N	CMS	LC05	Digital	MO
57	CD4030MW	741.86N	CMS	LC05	Digital	FL	167	CD4070BE	741.86N	CMS	LC05	Digital	MO
58	CD4032AD	40-32B	CMS	LC15	Digital	MO	168	CD4070BF	741.86N	CMS	LC05	Digital	MO
59	CD4032AE	40-32B	CMS	LC15	Digital	MO	169	CD4070BMJ	741.86N	CMS	LC05	Digital	DL
60	CD4032AF	40-32B	CMS	LC15	Digital	MO	170	CD4070BMW	741.86N	CMS	LC05	Digital	FL
61	CD4032BD	40-32B	CMS	LC15	Digital	MO	171	CD4071BCJ	40-71B	CMS	LC05	Digital	DL
62	CD4032BE	40-32B	CMS	LC15	Digital	MO	172	CD4071BCN	40-71B	CMS	LC05	Digital	DL
63	CD4032BF	40-32B	CMS	LC15	Digital	MO	173	CD4071BD	40-71B	CMS	LC05	Digital	MO
64	CD4033AD	40-33B	CMS	LC11	Digital	MO	174	CD4071BE	40-71B	CMS	LC05	Digital	MO
65	CD4033AE	40-33B	CMS	LC11	Digital	MO	175	CD4071BF	40-71B	CMS	LC05	Digital	MO
66	CD4033AF	40-33B	CMS	LC11	Digital	MO	176	CD4071BMJ	40-71B	CMS	LC05	Digital	DL
67	CD4033BD	40-33B	CMS	LC11	Digital	MO	177	CD4071BMW	40-71B	CMS	LC05	Digital	FL
68	CD4033BE	40-33B	CMS	LC11	Digital	MO	178	CD4072BD	40-72B	CMS	LC05	Digital	MO
69	CD4033BF	40-33B	CMS	LC11	Digital	MO	179	CD4072BE	40-72B	CMS	LC05	Digital	MO
70	CD4033BH	40-33	CMS	LC11	Digital	CH	180	CD4072BF	40-72B	CMS	LC05	Digital	MO
71	CD4038AD	40-38B	CMS	LC15	Digital	MO	181	CD4073BCJ	40-73B	CMS	LC05	Digital	DL
72	CD4038AE	40-38B	CMS	LC15	Digital	MO	182	CD4073BCN	40-73B	CMS	LC05	Digital	DL
73	CD4038AF	40-38B	CMS	LC15	Digital	MO	183	CD4073BD	40-73B	CMS	LC05	Digital	MO
74	CD4038BD	40-38B	CMS	LC15	Digital	MO	184	CD4073BE	40-73B	CMS	LC05	Digital	MO
75	CD4038BE	40-38B	CMS	LC15	Digital	MO	185	CD4073BF	40-73B	CMS	LC05	Digital	MO
76	CD4038BF	40-38B	CMS	LC15	Digital	MO	186	CD4073BMJ	40-73B	CMS	LC05	Digital	DL
77	CD4040AD	40-40B	CMS	LC11	Digital	MO	187	CD4073BMW	40-73B	CMS	LC05	Digital	FL
78	CD4040AE	40-40B	CMS	LC11	Digital	MO	188	CD4075BCJ	40-75B	CMS	LC05	Digital	DL
79	CD4040AF	40-40B	CMS	LC11	Digital	MO	189	CD4075BCN	40-75B	CMS	LC05	Digital	DL
80	CD4040BCJ	40-40B	CMS	LC11	Digital	DL	190	CD4075BD	40-75B	CMS	LC05	Digital	MO
81	CD4040BCN	40-40B	CMS	LC11	Digital	DL	191	CD4075BE	40-75B	CMS	LC05	Digital	MO
82	CD4040BD	40-40B	CMS	LC11	Digital	MO	192	CD4075BF	40-75B	CMS	LC05	Digital	MO
83	CD4040BE	40-40B	CMS	LC11	Digital	MO	193	CD4075BMJ	40-75B	CMS	LC05	Digital	DL
84	CD4040BMJ	40-40B	CMS	LC11	Digital	DL	194	CD4075BMW	40-75B	CMS	LC05	Digital	FL
85	CD4040BMW	40-40B	CMS	LC11	Digital	FP	195	CD4076BC	74-173N	CMS	LC04	Digital	DL
86	CD4042AD	40-42B	CMS	LC26	Digital	MO	196	CD4076BM	74-173N	CMS	LC04	Digital	DL
87	CD4042AE	40-42B	CMS	LC26	Digital	MO	197	CD4076BN	40-78B	CMS	LC05	Digital	MO
88	CD4042AF	40-42B	CMS	LC26	Digital	MO	198	CD4076BE	40-78B	CMS	LC05	Digital	MO
89	CD4042BCJ	40-42B	CMS	LC26	Digital	DL	199	CD4076BF	40-78B	CMS	LC05	Digital	MO
90	CD4042BCN	40-42B	CMS	LC26	Digital	DL	200	CD4081BCJ	40-81B	CMS	LC05	Digital	DL
91	CD4042BD	40-42B	CMS	LC26	Digital	MO	201	CD4081BCN	40-81B	CMS	LC05	Digital	DL
92	CD4042BE	40-42B	CMS	LC26	Digital	MO	202	CD4081BD	40-81B	CMS	LC05	Digital	MO
93	CD4042BF	40-42B	CMS	LC26	Digital	MO	203	CD4081BE	40-81B	CMS	LC05	Digital	MO
94	CD4042BMJ	40-42B	CMS	LC26	Digital	DL	204	CD4081BF	40-81B	CMS	LC05	Digital	MO
95	CD4042BMW	40-42B	CMS	LC26	Digital	FL	205	CD4081BMJ	40-81B	CMS	LC05	Digital	DL
96	CD4043AD	40-43B	CMS	LC26	Digital	MO	206	CD4081BMW	40-81B	CMS	LC05	Digital	FL
97	CD4043AE	40-43B	CMS	LC26	Digital	MO	207	CD4082BD	40-82B	CMS	LC05	Digital	MO
98	CD4043AF	40-43B	CMS	LC26	Digital	MO	208	CD4082BE	40-82B	CMS	LC05	Digital	MO
99	CD4043BD	40-43B	CMS	LC26	Digital	MO	209	CD4082BF	40-82B	CMS	LC05	Digital	MO
100	CD4043BE	40-43B	CMS	LC26	Digital	MO	210	CD4085BD	40-85B	CMS	LC05	Digital	MO
101	CD4043BF	40-43B	CMS	LC26	Digital	MO	211	CD4085BE	40-85B	CMS	LC05	Digital	MO
102	CD4043CJ	40-43B	CMS	LC26	Digital	DL	212	CD4085BF	40-85B	CMS	LC05	Digital	MO
103	CD4043CN	40-43B	CMS	LC26	Digital	DL	213	CD4085BD	40-86B	CMS	LC05	Digital	MO
104	CD4043MJ	40-43B	CMS	LC26	Digital	DL	214	CD4088BE	40-86B	CMS			

TYPE TO FUNCTIONAL EQUIVALENCE NUMBER

IN ORDER OF: (1) MFG TYPE NUMBER

LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GP E	LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GP E
1	CD4096BF	74-04N	CMS	LC04	Digital	MO	111	CD40175BF	74-175	CMS	LC04	Digital	DL
2	CD4098BD	40-98B	CMS	LC10	Digital	MO	112	CD40175BH	74-175	CMS	LC04	Digital	CH
3	CD4098BE	40-98B	CMS	LC10	Digital	MO	113	CD40175BM	74-175N	CMS	LC04	Digital	DL
4	CD4098BF	40-98B	CMS	LC10	Digital	MO	114	CD40181BD	74-181	CMS	LC18	Digital	MO
5	CD4099BCJ	40-99B	CMS	LC26	Digital	DL	115	CD40181BF	74-181	CMS	LC18	Digital	DL
6	CD4099BCN	40-99B	CMS	LC26	Digital	DL	116	CD40182BD	74-182	CMS	LC19	Digital	MO
7	CD4099BD	40-99B	CMS	LC26	Digital	MO	117	CD40182BE	74-182	CMS	LC19	Digital	MO
8	CD4099BE	40-99B	CMS	LC26	Digital	MO	118	CD40182BF	74-182	CMS	LC19	Digital	MO
9	CD4099BF	40-99B	CMS	LC26	Digital	MO	119	CD40192BCJ	74-192N	CMS	LC11	Digital	DL
10	CD4099BMJ	40-99B	CMS	LC26	Digital	DL	120	CD40192BCN	74-192N	CMS	LC11	Digital	DL
11	CD4099MMW	40-99B	CMS	LC26	Digital	FL	121	CD40192BD	74-192N	CMS	LC11	Digital	MO
12	CD4508BD	45-08B	CMS	LC26	Digital	MO	122	CD40192BE	74-192N	CMS	LC11	Digital	MO
13	CD4508BE	45-08B	CMS	LC26	Digital	MO	123	CD40192BF	74-192N	CMS	LC11	Digital	MO
14	CD4508BF	45-08B	CMS	LC26	Digital	MO	124	CD40192BMJ	74-192N	CMS	LC11	Digital	DL
15	CD4510BCJ	45-10B	CMS	LC11	Digital	DL	125	CD40192BMW	54-192W	CMS	LC11	Digital	FP
16	CD4510BCN	45-10B	CMS	LC11	Digital	DL	126	CD40193BCJ	74-193N	CMS	LC11	Digital	DL
17	CD4510BD	45-10B	CMS	LC11	Digital	MO	127	CD40193BCN	74-193N	CMS	LC11	Digital	DL
18	CD4510BE	45-10B	CMS	LC11	Digital	MO	128	CD40193BD	74-193N	CMS	LC11	Digital	MO
19	CD4510BF	45-10B	CMS	LC11	Digital	MO	129	CD40193BE	74-193N	CMS	LC11	Digital	MO
20	CD4514BC	45-14B	CMS	LC06	Digital	DL	130	CD40193BF	74-193N	CMS	LC11	Digital	MO
21	CD4514BD	45-14B	CMS	LC06	Digital	MO	131	CD40193BMJ	74-193N	CMS	LC11	Digital	DL
22	CD4514BE	45-14B	CMS	LC06	Digital	MO	132	CD40193BMW	54-193W	CMS	LC11	Digital	FP
23	CD4514BF	45-14B	CMS	LC06	Digital	MO	133	CM4000AD	40-00B		LC05	Digital	DL
24	CD4514BM	45-14B	CMS	LC06	Digital	DL	134	CM4000AE	40-00B		LC05	Digital	DL
25	CD4515BC	45-15B	CMS	LC06	Digital	DL	135	CM4001AD	40-01B		LC05	Digital	DL
26	CD4515BD	45-15B	CMS	LC06	Digital	MO	136	CM4001AE	40-01B		LC05	Digital	DL
27	CD4515BE	45-15B	CMS	LC06	Digital	MO	137	CM4002AD	40-02B		LC05	Digital	DL
28	CD4515BF	45-15B	CMS	LC06	Digital	MO	138	CM4002AE	40-02B		LC05	Digital	DL
29	CD4515BM	45-15B	CMS	LC06	Digital	DL	139	CM4008AD	40-08B	CMS	LC15	Digital	DL
30	CD4516BCJ	45-16B	CMS	LC11	Digital	DL	140	CM4008AE	40-08B	CMS	LC15	Digital	DL
31	CD4516BCN	45-16B	CMS	LC11	Digital	DL	141	CM4011AD	40-11B		LC05	Digital	DL
32	CD4516BD	45-16B	CMS	LC11	Digital	MO	142	CM4011AE	40-11B		LC05	Digital	DL
33	CD4516BE	45-16B	CMS	LC11	Digital	MO	143	CM4012AD	40-12B		LC05	Digital	DL
34	CD4516BF	45-16B	CMS	LC11	Digital	MO	144	CM4012AE	40-12B		LC05	Digital	DL
35	CD4516BMJ	45-16B	CMS	LC11	Digital	DL	145	CM4013AD	40-13B		LC04	Digital	DL
36	CD4516BMW	45-16B	CMS	LC11	Digital	FP	146	CM4013AE	40-13B		LC04	Digital	DL
37	CD4518BCJ	45-18B	CMS	LC11	Digital	DL	147	CM4017AD	40-17B		LC11	Digital	DL
38	CD4518BCN	45-18B	CMS	LC11	Digital	DL	148	CM4017AE	40-17B		LC11	Digital	DL
39	CD4518BD	45-18B	CMS	LC11	Digital	MO	149	CM4018AD	40-18B		LC11	Digital	DL
40	CD4518BE	45-18B	CMS	LC11	Digital	MO	150	CM4018AE	40-18B		LC11	Digital	DL
41	CD4518BF	45-18B	CMS	LC11	Digital	MO	151	CM4019AD	40-19B		LC05	Digital	DL
42	CD4518BMJ	45-18B	CMS	LC11	Digital	DL	152	CM4019AE	40-19B		LC05	Digital	DL
43	CD4518BMW	45-18B	CMS	LC11	Digital	FP	153	CM4022AD	40-22B		LC11	Digital	DL
44	CD4519BC	45-19B	CMS	LC05	Digital	DL	154	CM4022AE	40-22B		LC11	Digital	DL
45	CD4520BCJ	45-20B	CMS	LC11	Digital	DL	155	CM4023AD	40-23B		LC05	Digital	DL
46	CD4520BCN	45-20B	CMS	LC11	Digital	DL	156	CM4023AE	40-23B		LC05	Digital	DL
47	CD4520BD	45-20B	CMS	LC11	Digital	MO	157	CM4024AD	40-24B		LC11	Digital	DL
48	CD4520BE	45-20B	CMS	LC11	Digital	MO	158	CM4024AE	40-24B		LC11	Digital	DL
49	CD4520BF	45-20B	CMS	LC11	Digital	MO	159	CM4025AD	40-25B		LC05	Digital	DL
50	CD4520BMJ	45-20B	CMS	LC11	Digital	DL	160	CM4025AE	40-25B		LC05	Digital	DL
51	CD4520BMW	45-20B	CMS	LC11	Digital	FP	161	CM4026AD	40-26B		LC11	Digital	DL
52	CD4526BC	45-26B	CMS	LC11	Digital	DL	162	CM4026AE	40-26B		LC11	Digital	DL
53	CD4526BM	45-26B	CMS	LC11	Digital	DL	163	CM4027AD	40-27B		LC04	Digital	DL
54	CD4536BD	45-36B	CMS	LC10	Digital	MO	164	CM4027AE	40-27B		LC04	Digital	DL
55	CD4536BE	45-36B	CMS	LC10	Digital	MO	165	CM4028AD	40-28B	CMS	LC06	Digital	DL
56	CD4536BF	45-36B	CMS	LC10	Digital	MO	166	CM4028AE	40-28B	CMS	LC06	Digital	DL
57	CD4541BD	45-41	CMS	LC10	Digital	DL	167	CM4029AD	40-29B		LC11	Digital	DL
58	CD4541BE	45-41	CMS	LC10	Digital	DL	168	CM4029AE	40-29B		LC11	Digital	DL
59	CD4541BF	45-41	CMS	LC10	Digital	DL	169	CM4030AD	74L86N		LC05	Digital	DL
60	CD4541BH	45-41	CMS	LC10	Digital	CH	170	CM4030AE	74L86N		LC05	Digital	DL
61	CD4556BD	74S139N	CMS	LC06	Digital	MO	171	CM4032AD	40-32	CMS	LC15	Digital	DL
62	CD4556BE	74S139N	CMS	LC06	Digital	MO	172	CM4032AE	40-32	CMS	LC15	Digital	DL
63	CD4556BF	74S139N	CMS	LC06	Digital	MO	173	CM4033AD	40-33B		LC11	Digital	DL
64	CD4585BD	45-85B	CMS	LC17	Digital	MO	174	CM4033AE	40-33B		LC11	Digital	DL
65	CD4585BE	45-85B	CMS	LC17	Digital	MO	175	CM4037AD	40-37A	CMS	LC05	Digital	MO
66	CD4585BF	45-85B	CMS	LC17	Digital	MO	176	CM4037AE	40-37A	CMS	LC05	Digital	MO
67	CD40101BD	40-101B	CMS	LC25	Digital	MO	177	CM4038AD	40-32	CMS	LC15	Digital	DL
68	CD40101BE	40-101B	CMS	LC25	Digital	MO	178	CM4038AE	40-38B	CMS	LC15	Digital	DL
69	CD40101BF	40-101B	CMS	LC25	Digital	MO	179	CM4040AD	40-40B		LC11	Digital	DL
70	CD40102BD	40-102B	CMS	LC11	Digital	MO	180	CM4040AE	40-40B		LC11	Digital	DL
71	CD40102BE	40-102B	CMS	LC11	Digital	MO	181	CM4048AD	40-48B	MOS	LC27	Digital	MO
72	CD40102BF	40-102B	CMS	LC11	Digital	MO	182	CM4048AE	40-48B	MOS	LC27	Digital	MO
73	CD40103BE	40-102	CMS	LC11	Digital	MO	183	D3205	74S138N	TTL	LC06	Digital	DL
74	CD40103BF	40-102	CMS	LC11	Digital	MO	184	DM54H00J	74-00N	TTL	LC05	Digital	DL
75	CD40160BCJ	74-160N	CMS	LC11	Digital	DL	185	DM54H01J	74-03N	TTL	LC05	Digital	DL
76	CD40160BCN	74-160N	CMS	LC11	Digital	DL	186	DM54H08J	74-08N	TTL	LC05	Digital	DL
77	CD40160BD	74-160N	CMS	LC11	Digital	MO	187	DM54H10J	74-10N	TTL	LC05	Digital	DL
78	CD40160BE	74-160N	CMS	LC11	Digital	MO	188	DM54H11J	74-11N	TTL	LC05	Digital	DL
79	CD40160BF	74-160N	CMS	LC11	Digital	MO	189	DM54H20J	74-13N	TTL	LC05	Digital	DL
80	CD40160BMJ	74-160N	CMS	LC11	Digital	DL	190	DM54H21J	74H21N	TTL	LC05	Digital	DL
81	CD40160BMW	74-160N	CMS	LC11	Digital	FP	191	DM54H30J	74-30N	TTL	LC05	Digital	DL
82	CD40161BCJ	74-161N	CMS	LC11	Digital	DL	192	DM54H40J	74-13N	TTL	LC05	Digital	DL
83	CD40161BCN	74-161N	CMS	LC11	Digital	DL	193	DM54H50J	74-50N	TTL	LC05	Digital	DL
84	CD40161BD	74-161N	CMS	LC11	Digital	MO	194	DM54H62J	74H62N	TTL	LC05	Digital	DL
85	CD40161BE	74-161N	CMS	LC11	Digital	MO	195	DM54H74J	74-74N	TTL	LC04	Digital	DL
86	CD40161BF	74-161N	CMS	LC11	Digital	MO	196	DM54L00J	74-00N	TTL	LC05	Digital	DL
87	CD40161BMJ	74-161N	CMS	LC11	Digital	DL	197	DM54L02J	74-02N	TTL	LC05	Digital	DL
88	CD40161BMW	74-161N	CMS	LC11	Digital	FP	198	DM54L03J	74-03N	TTL	LC05	Digital	DL
89	CD40162BCJ	74-162N	CMS	LC11	Digital	DL	199	DM54L10J	74-10N	TTL	LC05	Digital	DL
90	CD40162BCN	74-162N	CMS	LC11	Digital	DL	200	DM54L20J	74-13N	TTL	LC05	Digital	DL
91	CD40162BD	74-162N	CMS	LC11	Digital	MO	201	DM54L30J	74-30N	TTL	LC05	Digital	DL
92	CD40162BE	74-162N	CMS	LC11	Digital	MO	202	DM54L42AJ	74-42N	TTL	LC06	Digital	DL
93	CD40162BF	74-162N	CMS	LC11	Digital	MO	203	DM54L51J	74L51N	TTL	LC05	Digital	DL
94	CD40162BMJ	74-162N	CMS	LC11	Digital	DL	204	DM54L54J	74L54N	TTL	LC05	Digital	DL
95	CD40162BMW	54-162W	CMS	LC11	Digital	FP	205	DM54L55J	74L55N	TTL	LC05	Digital	DL
96	CD40163BCJ	74-163N	CMS	LC11	Digital	DL	206	DM54L55W#mil	54L55	TTL	LC05	Digital	FL
97	CD40163BCN	74-163N	CMS	LC11	Digital	DL	207	DM54L71J	74L71N	TTL	LC04	Digital	DL
98	CD40163BD	74-163N	CMS	LC11	Digital	MO	208	DM54L72J	74L71N	TTL	LC04	Digital	DL
99	CD40163BE	74-163N	CMS	LC11	Digital	MO	209	DM54L73J	74-73N	TTL	LC04	Digital	DL
100	CD40163BF	74-163N	CMS	LC11	Digital	MO	210	DM54L74J	74-74N	TTL	LC04	Digital	DL
101	CD40163BMJ	74-163N	CMS	LC11	Digital	DL	211	DM54L78J	74L78N	TTL	LC04	Digital	DL
102	CD40163BMW	54-163W	CMS	LC11	Digital	FP	212	DM54L85J	74L85N	TTL	LC17	Digital	DL
103	CD40174BC	54-174	CMS	LC04	Digital	DL	213	DM54L86J	74L86N	TTL	LC05	Digital	DL
104	CD40174BD	54-174	CMS	LC04	Digital								

TYPE TO FUNCTIONAL EQUIVALENCE NUMBER

IN ORDER OF: (1) MFG TYPE NUMBER

LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GPE	LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GPE
1	DM54S174J#mil	54-174	TTL	LC04	Digital	DL	111	DM5427W	54-27W	TTL	LC05	Digital	FL
2	DM54S174W#mil	54-174	TTL	LC04	Digital	FP	112	DM5430J	74-30N	TTL	LC05	Digital	DL
3	DM74H00N	74-00N	TTL	LC05	Digital	DL	113	DM5430W	54-30W	TTL	LC05	Digital	DL
4	DM74H01J	74-03N	TTL	LC05	Digital	DL	114	DM5432J	74-32N	TTL	LC05	Digital	DL
5	DM74H01N	74-03N	TTL	LC05	Digital	DL	115	DM5432W	54-32W	TTL	LC05	Digital	DL
6	DM74H08N	74-08N	TTL	LC05	Digital	DL	116	DM5437J	74-00N	TTL	LC05	Digital	DL
7	DM74H10N	74-10N	TTL	LC05	Digital	DL	117	DM5437W	54S00W	TTL	LC05	Digital	FL
8	DM74H11N	74-11N	TTL	LC05	Digital	DL	118	DM5438J	74-03N	TTL	LC05	Digital	DL
9	DM74H20N	74-13N	TTL	LC05	Digital	DL	119	DM5438W	54S03W	TTL	LC05	Digital	DL
10	DM74H21N	74H21N	TTL	LC05	Digital	DL	120	DM5440J	74-13N	TTL	LC05	Digital	DL
11	DM74H22N	74-22N	TTL	LC05	Digital	DL	121	DM5440W	54-40W	TTL	LC05	Digital	DL
12	DM74H30N	74-30N	TTL	LC05	Digital	DL	122	DM5441AJ	74-41N	TTL	LC06	Digital	DL
13	DM74H40N	74-13N	TTL	LC05	Digital	DL	123	DM5441AW	54-41W	TTL	LC06	Digital	FL
14	DM74H50N	74-50N	TTL	LC05	Digital	DL	124	DM5442J	74-42N	TTL	LC06	Digital	DL
15	DM74H51N	74-50N	TTL	LC05	Digital	DL	125	DM5442W	54LS42W	TTL	LC06	Digital	FL
16	DM74H62N	74H62N	TTL	LC05	Digital	DL	126	DM5445J	74-45N	TTL	LC06	Digital	DL
17	DM74H74N	74-74N	TTL	LC04	Digital	DL	127	DM5445W	54-45W	TTL	LC06	Digital	DL
18	DM74L00N	74-00N	TTL	LC05	Digital	DL	128	DM5450J	74-50N	TTL	LC05	Digital	DL
19	DM74L02N	74-02N	TTL	LC05	Digital	DL	129	DM5450W	54-50W	TTL	LC05	Digital	DL
20	DM74L03N	74-03N	TTL	LC05	Digital	DL	130	DM5451J	54-51W	TTL	LC05	Digital	DL
21	DM74L10N	74-10N	TTL	LC05	Digital	DL	131	DM5451W	54-51W	TTL	LC05	Digital	DL
22	DM74L20N	74-13N	TTL	LC05	Digital	DL	132	DM5453J	74-53N	TTL	LC05	Digital	DL
23	DM74L30N	74-30N	TTL	LC05	Digital	DL	133	DM5453W	54-53W	TTL	LC05	Digital	DL
24	DM74L42AN	74-42N	TTL	LC06	Digital	DL	134	DM5454J	74-53N	TTL	LC05	Digital	DL
25	DM74L51N	74L51N	TTL	LC05	Digital	DL	135	DM5454W	54-54W	TTL	LC05	Digital	FL
26	DM74L54N	74L54N	TTL	LC05	Digital	DL	136	DM5460J	74-60N	TTL	LC05	Digital	DL
27	DM74L55N	74L55N	TTL	LC05	Digital	DL	137	DM5470J	74-70N	TTL	LC04	Digital	DL
28	DM74L71N	74L71N	TTL	LC04	Digital	DL	138	DM5470W	54-70W	TTL	LC04	Digital	FP
29	DM74L72N	74L71N	TTL	LC04	Digital	DL	139	DM5472J	74L71N	TTL	LC04	Digital	DL
30	DM74L73J	74-73N	TTL	LC04	Digital	DL	140	DM5472W	54L71T	TTL	LC04	Digital	FP
31	DM74L73N	74-73N	TTL	LC04	Digital	DL	141	DM5473J	74-73N	TTL	LC04	Digital	DL
32	DM74L74N	74-74N	TTL	LC04	Digital	DL	142	DM5473W	54-73W	TTL	LC04	Digital	FP
33	DM74L78N	74L78N	TTL	LC04	Digital	DL	143	DM5474J	74-74N	TTL	LC04	Digital	DL
34	DM74L85N	74LS85N	TTL	LC17	Digital	DL	144	DM5474W	54-74W	TTL	LC04	Digital	FP
35	DM74L86N	74L86N	TTL	LC05	Digital	DL	145	DM5475J	74-75N	TTL	LC26	Digital	DL
36	DM74L90N	74-90N	TTL	LC11	Digital	DL	146	DM5475W	54-75W	TTL	LC26	Digital	DL
37	DM74L93N	74L93N	TTL	LC11	Digital	DL	147	DM5476J	74LS76N	TTL	LC04	Digital	DL
38	DM74L123N	74-123	TTL	LC10	Digital	DL	148	DM5476W	54LS76W	TTL	LC04	Digital	FP
39	DM74L154AN	74-154N	TTL	LC06	Digital	DL	149	DM5483J	74-83	TTL	LC15	Digital	DL
40	DM74L192N	74-192N	TTL	LC11	Digital	DL	150	DM5483W	54-83	TTL	LC15	Digital	DL
41	DM74L193N	74-193N	TTL	LC11	Digital	DL	151	DM5486J	74-86N	TTL	LC05	Digital	DL
42	DM74LS174N	54-174	TTL	LC04	Digital	DL	152	DM5486W	54-86W	TTL	LC05	Digital	DL
43	DM74S00N	74-00N	TTL	LC05	Digital	DL	153	DM5490J	74-90N	TTL	LC11	Digital	FP
44	DM74S03N	74-03N	TTL	LC05	Digital	DL	154	DM5490W	54-90W	TTL	LC11	Digital	FP
45	DM74S10N	74-10	TTL	LC05	Digital	DL	155	DM5492J	74-92N	TTL	LC11	Digital	DL
46	DM74S11N	74-11N	TTL	LC05	Digital	DL	156	DM5492W	54-92W	TTL	LC11	Digital	FP
47	DM74S15N	74H15N	TTL	LC05	Digital	DL	157	DM5493J	74LS93N	TTL	LC11	Digital	FP
48	DM74S20N	74-13N	TTL	LC05	Digital	DL	158	DM5493W	54LS93	TTL	LC11	Digital	FP
49	DM74S22N	74-22N	TTL	LC05	Digital	DL	159	DM7280J	74-176N	TTL	LC11	Digital	DL
50	DM74S40N	74-13N	TTL	LC05	Digital	DL	160	DM7280W	54-176W	TTL	LC11	Digital	FP
51	DM74S64N	74S64N	TTL	LC05	Digital	DL	161	DM7281J	74-177N	TTL	LC11	Digital	DL
52	DM74S65N	74S65N	TTL	LC05	Digital	DL	162	DM7281W	54-177W	TTL	LC11	Digital	FP
53	DM74S74N	74-74	TTL	LC04	Digital	DL	163	DM7400N	74-00N	TTL	LC05	Digital	DL
54	DM74S86N	74-86	TTL	LC05	Digital	DL	164	DM7401N	74-01N	TTL	LC05	Digital	DL
55	DM74S112N	74LS112N	TTL	LC04	Digital	DL	165	DM7402N	74-02N	TTL	LC05	Digital	DL
56	DM74S113N	74LS113	TTL	LC04	Digital	DL	166	DM7403N	74-03N	TTL	LC05	Digital	DL
57	DM74S114N	74LS114N	TTL	LC04	Digital	DL	167	DM7408N	74-08N	TTL	LC05	Digital	DL
58	DM74S135N	74S135N	TTL	LC05	Digital	DL	168	DM7409N	74-09N	TTL	LC05	Digital	DL
59	DM74S140N	74-13N	TTL	LC05	Digital	DL	169	DM7410N	74-10N	TTL	LC05	Digital	DL
60	DM74S174N	54-174	TTL	LC04	Digital	DL	170	DM7411N	74-11N	TTL	LC05	Digital	DL
61	DM75L11D	75-11N	TTL	LC04	Digital	DL	171	DM7420N	74-13N	TTL	LC05	Digital	DL
62	DM75L11F	75-11N	TTL	LC04	Digital	FP	172	DM7423N	74-23N	TTL	LC05	Digital	DL
63	DM75L11N	75-11N	TTL	LC04	Digital	DL	173	DM7425N	74-25N	TTL	LC05	Digital	DL
64	DM75L12F	75-12	TTL	LC04	Digital	FP	174	DM7427N	74-27N	TTL	LC05	Digital	DL
65	DM75L12J	75-12	TTL	LC04	Digital	DL	175	DM7430N	74-30N	TTL	LC05	Digital	DL
66	DM75L12N	75-12	TTL	LC04	Digital	DL	176	DM7432N	74-32N	TTL	LC05	Digital	DL
67	DM75L52F	75-52	TTL	LC11	Digital	FP	177	DM7437N	74-00N	TTL	LC05	Digital	DL
68	DM75L52J	75-52	TTL	LC11	Digital	DL	178	DM7438N	74-03N	TTL	LC05	Digital	DL
69	DM75L52N	75-52	TTL	LC11	Digital	DL	179	DM7440N	74-13N	TTL	LC05	Digital	DL
70	DM75L54F	75-54	TTL	LC11	Digital	FP	180	DM7441AN	74-41N	TTL	LC06	Digital	DL
71	DM75L54J	75-54	TTL	LC11	Digital	DL	181	DM7442N	74-42N	TTL	LC06	Digital	DL
72	DM75L54N	75-54	TTL	LC11	Digital	DL	182	DM7445N	74-45N	TTL	LC06	Digital	DL
73	DM76L93F	54L93T	TTL	LC11	Digital	FP	183	DM7450N	74-50N	TTL	LC05	Digital	DL
74	DM76L93J	74L93N	TTL	LC11	Digital	DL	184	DM7451N	74-50N	TTL	LC05	Digital	DL
75	DM76L93N	74L93N	TTL	LC11	Digital	DL	185	DM7453N	74-53N	TTL	LC05	Digital	DL
76	DM85L11D	75-11N	TTL	LC04	Digital	DL	186	DM7454N	74-53N	TTL	LC05	Digital	DL
77	DM85L11F	75-11N	TTL	LC04	Digital	FP	187	DM7460N	74-60N	TTL	LC05	Digital	DL
78	DM85L11N	75-11N	TTL	LC04	Digital	DL	188	DM7470N	74-70N	TTL	LC04	Digital	DL
79	DM85L12F	75-12	TTL	LC04	Digital	FP	189	DM7472N	74L71N	TTL	LC04	Digital	DL
80	DM85L12J	75-12	TTL	LC04	Digital	DL	190	DM7473N	74-73N	TTL	LC04	Digital	DL
81	DM85L12N	75-12	TTL	LC04	Digital	DL	191	DM7474N	74-74N	TTL	LC04	Digital	DL
82	DM85L52F	75-52	TTL	LC11	Digital	FP	192	DM7475N	74-75N	TTL	LC26	Digital	DL
83	DM85L52J	75-52	TTL	LC11	Digital	DL	193	DM7476N	74LS76N	TTL	LC04	Digital	DL
84	DM85L52N	75-52	TTL	LC11	Digital	DL	194	DM7483N	74-83	TTL	LC15	Digital	DL
85	DM85L54F	75-54	TTL	LC11	Digital	FP	195	DM7485N	74-85N	TTL	LC17	Digital	DL
86	DM85L54J	75-54	TTL	LC11	Digital	DL	196	DM7486N	74-86N	TTL	LC05	Digital	DL
87	DM85L54N	75-54	TTL	LC11	Digital	DL	197	DM7490N	74-90N	TTL	LC11	Digital	DL
88	DM86L93F	54L93T	TTL	LC11	Digital	FP	198	DM7492N	74-92N	TTL	LC11	Digital	DL
89	DM86L93J	74L93N	TTL	LC11	Digital	DL	199	DM7493N	74LS93N	TTL	LC11	Digital	DL
90	DM86L93N	74L93N	TTL	LC11	Digital	DL	200	DM7511J	75-11N	TTL	LC04	Digital	DL
91	DM5400J	74-00N	TTL	LC05	Digital	DL	201	DM7511N	75-11N	TTL	LC04	Digital	FP
92	DM5400W	54-00W	TTL	LC05	Digital	FL	202	DM7511W	75-11N	TTL	LC04	Digital	FP
93	DM5401J	74-01	TTL	LC05	Digital	DL	203	DM7512J	75-12	TTL	LC04	Digital	DL
94	DM5401W	54-01W	TTL	LC05	Digital	FL	204	DM7512N	75-12	TTL	LC04	Digital	FP
95	DM5402J	74-02N	TTL	LC05	Digital	DL	205	DM7512W	75-12	TTL	LC04	Digital	FP
96	DM5402W	54-02W	TTL	LC05	Digital	FL	206	DM7553J	75-53N	TTL	LC26	Digital	DL
97	DM5408J	74-08N	TTL	LC05	Digital	DL	207	DM7553W	75-53N	TTL	LC26	Digital	FP
98	DM5408W	54S08	TTL	LC05	Digital	DL	208	DM7554W	75-54	TTL	LC11	Digital	DL
99	DM5409J	74-09N	TTL	LC05	Digital	DL	209	DM7555J#mil	75-55	TTL	LC11	Digital	DL
100	DM5409W	54S09W	TTL	LC05	Digital	DL	210	DM7555N	75-55	TTL	LC11	Digital	FP
101	DM5410J	74-10N	TTL	LC05	Digital	DL	211	DM7555W#mil	75-55	TTL	LC11	Digital	FP
102	DM5410W	54-10W	TTL	LC05	Digital	FL	212	DM7556J#mil	75-56	TTL	LC11	Digital	DL
103	DM5411J	74-11N	TTL	LC05	Digital	DL	213	DM7					

TYPE TO FUNCTIONAL EQUIVALENCE NUMBER

IN ORDER OF: (1) MFG TYPE NUMBER

LINE No.	MANUFACTURER		FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GPE	LINE No.	MANUFACTURER		FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GPE
	TYPE	NUMBER							TYPE	NUMBER					
1	DM7819W		54S08W	TTL	LC05	Digital	FL	111	DM74197N		74-177N	TTL	LC11	Digital	DL
2	DM7853J		74-123	TTL	LC10	Digital	DL	112	DS7819J		74-09N	TTL	LC05	Digital	DL
3	DM7853W		54-123	TTL	LC10	Digital	FL	113	DS7819W		54S09W	TTL	LC05	Digital	DL
4	DM8280J		74-176N	TTL	LC11	Digital	DL	114	DS8619J		74-09N	TTL	LC05	Digital	DL
5	DM8280N		74-176N	TTL	LC11	Digital	DL	115	DS8619N		74-09N	TTL	LC05	Digital	DL
6	DM8280W		54-176W	TTL	LC11	Digital	FP	116#	E302D2		54S00W	DTL	LC05	Digital	FL
7	DM8281J		74-177N	TTL	LC11	Digital	DL	117#	E302D7		54S00W	DTL	LC05	Digital	FL
8	DM8281N		74-177N	TTL	LC11	Digital	DL	118#	E302F2		74-00N	DTL	LC05	Digital	DL
9	DM8281W		54-177W	TTL	LC11	Digital	FP	119#	E302F7		74-00N	DTL	LC05	Digital	DL
10	DM8334J		74-259N	TTL	LC26	Digital	DL	120#	E303D2		54S10W	DTL	LC05	Digital	FL
11	DM8334N		74-259N	TTL	LC26	Digital	DL	121#	E303D7		54S10W	DTL	LC05	Digital	FL
12	DM8334W		54-259W	TTL	LC26	Digital	FP	122#	E303F2		74-10N	DTL	LC05	Digital	DL
13	DM8512W		75-12	TTL	LC04	Digital	FP	123#	E303F7		74-10N	DTL	LC05	Digital	DL
14	DM8552J		75-52	TTL	LC11	Digital	DL	124#	FJH101-7430		74-30N	TTL	LC05	Digital	DL
15	DM8552N		75-52	TTL	LC11	Digital	DL	125#	FJH111-7420		74-13N	TTL	LC05	Digital	DL
16	DM8552W		75-52	TTL	LC11	Digital	FP	126#	FJH121-7410		74-10N	TTL	LC05	Digital	DL
17	DM8553J		75-53N	TTL	LC26	Digital	DL	127#	FJH131-7400		74-00N	TTL	LC05	Digital	DL
18	DM8553N		75-53N	TTL	LC26	Digital	DL	128#	FJH141-7440		74-13N	TTL	LC05	Digital	DL
19	DM8553W		75-53N	TTL	LC26	Digital	FP	129#	FJH151-7450		74-50N	TTL	LC05	Digital	DL
20	DM8554J		75-54	TTL	LC11	Digital	DL	130#	FJH161-7451		74-50N	TTL	LC05	Digital	DL
21	DM8554N		75-54	TTL	LC11	Digital	DL	131#	FJH171-7453		74-53N	TTL	LC05	Digital	DL
22	DM8554W		75-54	TTL	LC11	Digital	FP	132#	FJH181-7454		74-53N	TTL	LC05	Digital	DL
23	DM8555N		75-56	TTL	LC11	Digital	DL	133#	FJH221-7402		74-02N	TTL	LC05	Digital	DL
24	DM8556N		75-56	TTL	LC11	Digital	DL	134#	FJH231-7401		74-01	TTL	LC05	Digital	DL
25	DM8560J		74-192N	TTL	LC11	Digital	DL	135#	FJH291-7403		74-03N	TTL	LC05	Digital	DL
26	DM8560N		74-192N	TTL	LC11	Digital	DL	136#	FJH301-7426		74-03N	TTL	LC05	Digital	DL
27	DM8563J		74-193N	TTL	LC11	Digital	DL	137#	FJH311-7401		74-01N	TTL	LC05	Digital	DL
28	DM8563N		74-193N	TTL	LC11	Digital	DL	138#	FJH311-7401S1		74-01N	TTL	LC05	Digital	DL
29	DM8602J		45-28	TTL	LC10	Digital	DL	139#	FJH311-74121		74-01N	TTL	LC05	Digital	DL
30	DM8602N		45-28	TTL	LC10	Digital	DL	140#	FJH111-7472		74L71N	TTL	LC05	Digital	DL
31	DM8602W		45-28	TTL	LC10	Digital	FP	141#	FJH121-7473		74-73N	TTL	LC04	Digital	DL
32	DM8810N		74-03N	TTL	LC05	Digital	DL	142#	FJH131-7474		74-73N	TTL	LC04	Digital	DL
33	DM8811N		74-03N	TTL	LC05	Digital	DL	143#	FJH141-7490		74H89P	TTL	LC11	Digital	DL
34	DM8819J		74-08N	TTL	LC05	Digital	DL	144#	FJH191-7476		74LS76N	TTL	LC04	Digital	DL
35	DM8819N		74-08N	TTL	LC05	Digital	DL	145#	FJH211-7493		74LS93N	TTL	LC11	Digital	DL
36	DM8819W		54S08W	TTL	LC05	Digital	FL	146#	FJH251-7492		74-92N	TTL	LC11	Digital	DL
37	DM8853J		74-123	TTL	LC10	Digital	DL	147#	FJH261-74107		74-107N	TTL	LC04	Digital	DL
38	DM8853N		74-123	TTL	LC10	Digital	DL	148#	FJK101-74121		74-121	TTL	LC10	Digital	DL
39	DM8853W		54-123	TTL	LC10	Digital	FP	149#	FZL101		74-45N	DTL	LC06	Digital	DL
40	DM9002CJ		74-03N	TTL	LC05	Digital	DL	150#	FZL105		74-42N	DTL	LC06	Digital	DL
41	DM9002CN		74-03N	TTL	LC05	Digital	DL	151#	H112D1		74-04N	HNL	LC05	Digital	DL
42	DM9003CJ		74-10N	TTL	LC05	Digital	DL	152#	H112D6		74-04N	HNL	LC05	Digital	DL
43	DM9003CN		74-10N	TTL	LC05	Digital	DL	153#	H118D1		74-04N	HNL	LC05	Digital	DL
44	DM9004CJ		74-13N	TTL	LC05	Digital	DL	154#	H118D6		74-04N	HNL	LC05	Digital	DL
45	DM9004CN		74-13N	TTL	LC05	Digital	DL	155#	H122D1		74-00N	DTL	LC05	Digital	DL
46	DM9005CJ		74-50N	TTL	LC05	Digital	DL	156#	H122D2		74-00N	DTL	LC05	Digital	DL
47	DM9005CN		74-50N	TTL	LC05	Digital	DL	157#	H122D6		74-00N	DTL	LC05	Digital	DL
48	DM9006CJ		74-60N	TTL	LC05	Digital	DL	158#	H158D1		74-42N	DTL	LC06	Digital	DL
49	DM9006CN		74-60N	TTL	LC05	Digital	DL	159#	H158D2		74-42N	DTL	LC06	Digital	DL
50	DM9008CJ		74H53N	TTL	LC05	Digital	DL	160#	H158D6		74-42N	DTL	LC06	Digital	DL
51	DM9008CN		74H53N	TTL	LC05	Digital	DL	161#	H222B1		74-00N	DTL	LC05	Digital	DL
52	DM9009CJ		74-13N	TTL	LC05	Digital	DL	162#	H258B1		74-42N	DTL	LC06	Digital	DL
53	DM9009CN		74-13N	TTL	LC05	Digital	DL	163#	HBC4000AD		40-00B	CMS	LC05	Digital	MO
54	DM9012CJ		74-03N	TTL	LC05	Digital	DL	164#	HBC4000AF		40-00B	CMS	LC05	Digital	MO
55	DM9012CN		74-03N	TTL	LC05	Digital	DL	165#	HBC4000AK		40-00B	CMS	LC05	Digital	MO
56	DM9334J		74-259N	TTL	LC26	Digital	DL	166#	HBC4001AD		40-01B	CMS	LC05	Digital	MO
57	DM9334W		54-259W	TTL	LC26	Digital	FP	167#	HBC4001AF		40-01B	CMS	LC05	Digital	MO
58	DM9602J		45-28	TTL	LC10	Digital	DL	168#	HBC4001AK		40-01B	CMS	LC05	Digital	MO
59	DM9602N		45-28	TTL	LC10	Digital	DL	169#	HBC4002AD		40-02B	CMS	LC05	Digital	MO
60	DM9602W		45-28	TTL	LC10	Digital	FP	170#	HBC4002AF		40-02B	CMS	LC05	Digital	MO
61	DM54121J		74-121	TTL	LC10	Digital	DL	171#	HBC4002AK		40-02B	CMS	LC05	Digital	MO
62	DM54121W		54-121	TTL	LC10	Digital	FP	172#	HBC4008AD		40-08B	CMS	LC15	Digital	MO
63	DM54174J#mil		54-174	TTL	LC04	Digital	DL	173#	HBC4008AF		40-08B	CMS	LC15	Digital	MO
64	DM54174W#mil		54-174	TTL	LC04	Digital	FP	174#	HBC4008AK		40-08B	CMS	LC15	Digital	MO
65	DM54182J		74-182	TTL	LC19	Digital	DL	175#	HBC4011AD		40-11B	CMS	LC05	Digital	MO
66	DM54192W		54-192W	TTL	LC11	Digital	FP	176#	HBC4011AF		40-11B	CMS	LC05	Digital	MO
67	DM54193W		54-193W	TTL	LC11	Digital	FP	177#	HBC4011AK		40-11B	CMS	LC05	Digital	MO
68	DM54196J		74-176N	TTL	LC11	Digital	DL	178#	HBC4012AD		40-12B	CMS	LC05	Digital	MO
69	DM54197J		74-177N	TTL	LC11	Digital	DL	179#	HBC4012AF		40-12B	CMS	LC05	Digital	MO
70	DM74107J		74-107N	TTL	LC04	Digital	DL	180#	HBC4012AK		40-12B	CMS	LC05	Digital	MO
71	DM74107N		74-107N	TTL	LC04	Digital	DL	181#	HBC4013AD		40-13B	CMS	LC04	Digital	MO
72	DM74121J		74-121	TTL	LC10	Digital	DL	182#	HBC4013AF		40-13B	CMS	LC04	Digital	MO
73	DM74121N		74-121	TTL	LC10	Digital	DL	183#	HBC4013AK		40-13B	CMS	LC04	Digital	MO
74	DM74123N		74-123	TTL	LC10	Digital	DL	184#	HBC4017AD		40-17B	CMS	LC11	Digital	MO
75	DM74141J		74-41N	TTL	LC06	Digital	DL	185#	HBC4017AF		40-17B	CMS	LC11	Digital	MO
76	DM74141N		74-41N	TTL	LC06	Digital	DL	186#	HBC4017AK		40-17B	CMS	LC11	Digital	MO
77	DM74141W		54-41W	TTL	LC06	Digital	FP	187#	HBC4018AD		40-18B	CMS	LC11	Digital	MO
78	DM74145J		74-45N	TTL	LC06	Digital	DL	188#	HBC4018AF		40-18B	CMS	LC11	Digital	MO
79	DM74145N		74-45N	TTL	LC06	Digital	DL	189#	HBC4018AK		40-18B	CMS	LC11	Digital	MO
80	DM74145W		54-45W	TTL	LC06	Digital	FP	190#	HBC4020AD		40-20B	CMS	LC11	Digital	MO
81	DM74154F		54-154W	TTL	LC06	Digital	FP	191#	HBC4020AF		40-20B	CMS	LC11	Digital	MO
82	DM74154J		74-154N	TTL	LC06	Digital	DL	192#	HBC4020AK		40-20B	CMS	LC11	Digital	MO
83	DM74154N		74-154N	TTL	LC06	Digital	DL	193#	HBC4022AD		40-22B	CMS	LC11	Digital	MO
84	DM74160N		74-160N	TTL	LC11	Digital	DL	194#	HBC4022AF		40-22B	CMS	LC11	Digital	MO
85	DM74161N		74-161	TTL	LC11	Digital	DL	195#	HBC4022AK		40-22B	CMS	LC11	Digital	MO
86	DM74162N		74-162N	TTL	LC11	Digital	DL	196#	HBC4023AD		40-23B	CMS	LC05	Digital	MO
87	DM74163N		74-163N	TTL	LC11	Digital	DL	197#	HBC4023AF		40-23B	CMS	LC05	Digital	MO
88	DM74174N		54-174	TTL	LC04	Digital	DL	198#	HBC4023AK		40-23B	CMS	LC05	Digital	MO
89	DM74176J		74-176N	TTL	LC11	Digital	DL	199#	HBC4024AD		40-24B	CMS	LC11	Digital	MO
90	DM74176N		74-176N	TTL	LC11	Digital	DL	200#	HBC4024AF		40-24B	CMS	LC11	Digital	MO
91	DM74176W		54-176W	TTL	LC11	Digital	FP	201#	HBC4024AK		40-24B	CMS	LC11	Digital	MO
92	DM74177J		74-177N	TTL	LC11	Digital	DL	202#	HBC4025AD		40-25B	CMS	LC05	Digital	MO
93	DM74177N		74-177N	TTL	LC11	Digital	DL	203#	HBC4025AF		40-25B	CMS	LC05	Digital	MO
94	DM74177W		54-177W	TTL	LC11	Digital	FP	204#	HBC4025AK		40-25B	CMS	LC05	Digital	MO
95	DM74180J		74-180N	TTL	LC25	Digital	DL	205#	HBC4026AD		40-26B				

TYPE TO FUNCTIONAL EQUIVALENCE NUMBER

IN ORDER OF: (1) MFG TYPE NUMBER

LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GP E	LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GP E
1#	HBC4032AF	40-32B	CMS	LC15	Digital	DL	111#	HCC4013BK	40-13B	CMS	LC04	Digital	FP
2#	HBC4032AK	40-32B	CMS	LC15	Digital	FL	112#	HCC4017BD	40-17B	CMS	LC11	Digital	DL
3#	HBC4033AD	40-33B	CMS	LC11	Digital	MO	113#	HCC4017BF	40-17B	CMS	LC11	Digital	DL
4#	HBC4033AF	40-33B	CMS	LC11	Digital	MO	114#	HCC4017BK	40-17B	CMS	LC11	Digital	FP
5#	HBC4033AK	40-33B	CMS	LC11	Digital	MO	115#	HCC4018BD	40-18B	CMS	LC11	Digital	DL
6#	HBC4037AD	40-37A	CMS	LC05	Digital	MO	116#	HCC4018BF	40-18B	CMS	LC11	Digital	DL
7#	HBC4037AF	40-37A	CMS	LC05	Digital	MO	117#	HCC4018BK	40-18B	CMS	LC11	Digital	FP
8#	HBC4037AK	40-37A	CMS	LC05	Digital	MO	118#	HCC4019BD	40-19B	CMS	LC05	Digital	DL
9#	HBC4038AD	40-38B	CMS	LC15	Digital	DL	119#	HCC4019BF	40-19B	CMS	LC05	Digital	*
10#	HBC4038AF	40-38B	CMS	LC15	Digital	DL	120#	HCC4019BK	40-19B	CMS	LC05	Digital	FL
11#	HBC4038AK	40-38B	CMS	LC15	Digital	DL	121#	HCC4020BD	40-20B	CMS	LC11	Digital	DL
12#	HBC4040AD	40-40B	CMS	LC11	Digital	MO	122#	HCC4020BF	40-20B	CMS	LC11	Digital	FP
13#	HBC4040AF	40-40B	CMS	LC11	Digital	MO	123#	HCC4020BK	40-20B	CMS	LC11	Digital	FP
14#	HBC4040AK	40-40B	CMS	LC11	Digital	MO	124#	HCC4022BD	40-22B	CMS	LC11	Digital	DL
15#	HBC4043AD	40-43B	CMS	LC26	Digital	DL	125#	HCC4022BF	40-22B	CMS	LC11	Digital	DL
16#	HBC4043AF	40-43B	CMS	LC26	Digital	DL	126#	HCC4022BK	40-22B	CMS	LC11	Digital	FP
17#	HBC4043AK	40-43B	CMS	LC26	Digital	DL	127#	HCC4023BD	40-23B	CMS	LC05	Digital	DL
18#	HBC4044AD	40-44B	CMS	LC26	Digital	DL	128#	HCC4023BF	40-23B	CMS	LC05	Digital	DL
19#	HBC4044AF	40-44B	CMS	LC26	Digital	DL	129#	HCC4023BK	40-23B	CMS	LC05	Digital	FL
20#	HBC4044AK	40-44B	CMS	LC26	Digital	FL	130#	HCC4025BD	40-25B	CMS	LC05	Digital	DL
21#	HBC4045AD	40-45	CMS	LC10	Digital	DL	131#	HCC4025BF	40-25B	CMS	LC05	Digital	DL
22#	HBC4045AF	40-45	CMS	LC10	Digital	DL	132#	HCC4025BK	40-25B	CMS	LC05	Digital	FL
23#	HBC4045AK	40-45	CMS	LC10	Digital	FL	133#	HCC4026BD	40-26B	CMS	LC11	Digital	DL
24#	HBC4047AD	40-47	CMS	LC12	Digital	DL	134#	HCC4026BF	40-26B	CMS	LC11	Digital	DL
25#	HBC4047AK	40-47	CMS	LC12	Digital	MO	135#	HCC4026BK	40-26B	CMS	LC11	Digital	FP
26#	HBC4048AD	40-48	MOS	LC27	Digital	DL	136#	HCC4027BD	40-27B	CMS	LC04	Digital	DL
27#	HBC4048AF	40-48	MOS	LC27	Digital	DL	137#	HCC4027BF	40-27B	CMS	LC04	Digital	DL
28#	HBC4048AK	40-48	MOS	LC27	Digital	FL	138#	HCC4027BK	40-27B	CMS	LC04	Digital	FP
29#	HBC4060AD	40-60B	CMS	LC11	Digital	DL	139#	HCC4028BD	40-28B	CMS	LC06	Digital	DL
30#	HBC4060AF	40-60B	CMS	LC11	Digital	DL	140#	HCC4028BF	40-28B	CMS	LC06	Digital	DL
31#	HBC4060AK	40-60B	CMS	LC11	Digital	FP	141#	HCC4028BK	40-28B	CMS	LC06	Digital	FL
32#	HBF4000AE	40-00B	CMS	LC05	Digital	MO	142#	HCC4029BD	40-29B	CMS	LC11	Digital	DL
33#	HBF4000AF	40-00B	CMS	LC05	Digital	MO	143#	HCC4029BF	40-29B	CMS	LC11	Digital	DL
34#	HBF4001AE	40-01B	CMS	LC05	Digital	MO	144#	HCC4029BK	40-29B	CMS	LC11	Digital	FP
35#	HBF4001AF	40-01B	CMS	LC05	Digital	MO	145#	HCC4030BD	74L86N	CMS	LC05	Digital	DL
36#	HBF4002AE	40-02B	CMS	LC05	Digital	MO	146#	HCC4030BF	74L86N	CMS	LC05	Digital	DL
37#	HBF4002AF	40-02B	CMS	LC05	Digital	MO	147#	HCC4030BK	54L86T	CMS	LC05	Digital	FL
38#	HBF4008AE	40-08B	CMS	LC15	Digital	MO	148#	HCC4032BD	40-32B	CMS	LC15	Digital	DL
39#	HBF4008AF	40-08B	CMS	LC15	Digital	MO	149#	HCC4032BF	40-32B	CMS	LC15	Digital	DL
40#	HBF4011AE	40-11B	CMS	LC05	Digital	MO	150#	HCC4032BK	40-32B	CMS	LC15	Digital	FL
41#	HBF4011AF	40-11B	CMS	LC05	Digital	MO	151#	HCC4033BD	40-33B	CMS	LC11	Digital	DL
42#	HBF4012AE	40-12B	CMS	LC05	Digital	MO	152#	HCC4033BF	40-33B	CMS	LC11	Digital	DL
43#	HBF4012AF	40-12B	CMS	LC05	Digital	MO	153#	HCC4033BK	40-33B	CMS	LC11	Digital	FP
44#	HBF4013AE	40-13B	CMS	LC04	Digital	MO	154#	HCC4038BD	40-38B	CMS	LC15	Digital	DL
45#	HBF4013AF	40-13B	CMS	LC04	Digital	MO	155#	HCC4038BF	40-38B	CMS	LC15	Digital	DL
46#	HBF4017AE	40-17B	CMS	LC11	Digital	MO	156#	HCC4038BK	40-38B	CMS	LC15	Digital	FL
47#	HBF4017AF	40-17B	CMS	LC11	Digital	MO	157#	HCC4040BD	40-40B	CMS	LC11	Digital	DL
48#	HBF4018AE	40-18B	CMS	LC11	Digital	MO	158#	HCC4040BF	40-40B	CMS	LC11	Digital	DL
49#	HBF4018AF	40-18B	CMS	LC11	Digital	MO	159#	HCC4040BK	40-40B	CMS	LC11	Digital	FP
50#	HBF4020AE	40-20B	CMS	LC11	Digital	MO	160#	HCC4042BD	40-42B	CMS	LC26	Digital	DL
51#	HBF4020AF	40-20B	CMS	LC11	Digital	MO	161#	HCC4042BF	40-42B	CMS	LC26	Digital	DL
52#	HBF4022AE	40-22B	CMS	LC11	Digital	MO	162#	HCC4042BK	40-42B	CMS	LC26	Digital	FL
53#	HBF4022AF	40-22B	CMS	LC11	Digital	MO	163#	HCC4043BD	40-43B	CMS	LC26	Digital	DL
54#	HBF4023AE	40-23B	CMS	LC05	Digital	MO	164#	HCC4043BF	40-43B	CMS	LC26	Digital	DL
55#	HBF4023AF	40-23B	CMS	LC05	Digital	MO	165#	HCC4043BK	40-43B	CMS	LC26	Digital	FL
56#	HBF4024AE	40-24B	CMS	LC11	Digital	MO	166#	HCC4044BD	40-44B	CMS	LC26	Digital	DL
57#	HBF4024AF	40-24B	CMS	LC11	Digital	MO	167#	HCC4044BF	40-44B	CMS	LC26	Digital	DL
58#	HBF4025AE	40-25B	CMS	LC05	Digital	MO	168#	HCC4044BK	40-44B	CMS	LC26	Digital	FL
59#	HBF4025AF	40-25B	CMS	LC05	Digital	MO	169#	HCC4045BD	40-45	CMS	LC11	Digital	DL
60#	HBF4026AE	40-26B	CMS	LC11	Digital	MO	170#	HCC4045BF	40-45	CMS	LC11	Digital	*
61#	HBF4026AF	40-26B	CMS	LC11	Digital	MO	171#	HCC4045BK	40-45	CMS	LC11	Digital	FP
62#	HBF4027AE	40-27B	CMS	LC04	Digital	MO	172#	HCC4047BD	40-47	CMS	LC12	Digital	DL
63#	HBF4027AF	40-27B	CMS	LC04	Digital	MO	173#	HCC4047BF	40-47	CMS	LC12	Digital	DL
64#	HBF4028AE	40-28B	CMS	LC06	Digital	MO	174#	HCC4047BK	40-47	CMS	LC12	Digital	FL
65#	HBF4028AF	40-28B	CMS	LC06	Digital	MO	175#	HCC4048BD	40-48B	CMS	LC05	Digital	DL
66#	HBF4029AE	40-29B	CMS	LC11	Digital	MO	176#	HCC4048BF	40-48B	CMS	LC05	Digital	*
67#	HBF4029AF	40-29B	CMS	LC11	Digital	MO	177#	HCC4048BK	40-48B	CMS	LC05	Digital	FL
68#	HBF4030AE	74L86N	CMS	LC05	Digital	MO	178#	HCC4060BD	40-60B	CMS	LC11	Digital	DL
69#	HBF4030AF	74L86N	CMS	LC05	Digital	MO	179#	HCC4060BF	40-60B	CMS	LC11	Digital	DL
70#	HBF4032AE	40-32B	CMS	LC15	Digital	DL	180#	HCC4060BK	40-60B	CMS	LC11	Digital	FP
71#	HBF4032AF	40-32B	CMS	LC15	Digital	DL	181#	HCC4063BD	40-63B	CMS	LC17	Digital	DL
72#	HBF4033AE	40-33B	CMS	LC11	Digital	MO	182#	HCC4063BF	40-63B	CMS	LC17	Digital	DL
73#	HBF4033AF	40-33B	CMS	LC11	Digital	MO	183#	HCC4063BK	40-63B	CMS	LC17	Digital	FL
74#	HBF4037AE	40-37A	CMS	LC05	Digital	MO	184#	HCC4068BD	40-68B	CMS	LC05	Digital	DL
75#	HBF4037AF	40-37A	CMS	LC05	Digital	MO	185#	HCC4068BF	40-68B	CMS	LC05	Digital	DL
76#	HBF4038AE	40-38B	CMS	LC15	Digital	DL	186#	HCC4068BK	40-68B	CMS	LC05	Digital	FL
77#	HBF4038AF	40-38B	CMS	LC15	Digital	DL	187#	HCC4070BD	74L86N	CMS	LC05	Digital	DL
78#	HBF4040AE	40-40B	CMS	LC11	Digital	MO	188#	HCC4070BF	74L86N	CMS	LC05	Digital	DL
79#	HBF4040AF	40-40B	CMS	LC11	Digital	MO	189#	HCC4070BK	54L86T	CMS	LC05	Digital	FL
80#	HBF4043AE	40-43B	CMS	LC26	Digital	DL	190#	HCC4071BF	40-72B	CMS	LC05	Digital	MO
81#	HBF4043AF	40-43B	CMS	LC26	Digital	DL	191#	HCC4071BK	40-71B	CMS	LC05	Digital	MO
82#	HBF4044AE	40-44B	CMS	LC26	Digital	DL	192#	HCC4072BD	40-72B	CMS	LC05	Digital	MO
83#	HBF4044AF	40-44B	CMS	LC26	Digital	DL	193#	HCC4073BD	40-73B	CMS	LC05	Digital	DL
84#	HBF4045AE	40-45	CMS	LC10	Digital	DL	194#	HCC4073BF	40-73B	CMS	LC05	Digital	DL
85#	HBF4045AF	40-45	CMS	LC10	Digital	DL	195#	HCC4073BK	40-73B	CMS	LC05	Digital	FL
86#	HBF4047AE	40-47	CMS	LC12	Digital	DL	196#	HCC4075BD	40-75B	CMS	LC05	Digital	MO
87#	HBF4048AE	40-48	MOS	LC27	Digital	DL	197#	HCC4075BF	40-75B	CMS	LC05	Digital	MO
88#	HBF4048AF	40-48	MOS	LC27	Digital	DL	198#	HCC4075BK	40-75B	CMS	LC05	Digital	MO
89#	HBF4060AE	40-60B	CMS	LC11	Digital	DL	199#	HCC4078BD	40-78B	CMS	LC05	Digital	MO
90#	HBF4060AF	40-60B	CMS	LC11	Digital	DL	200#	HCC4078BK	40-78B	CMS	LC05	Digital	MO
91#	HCC4000BD	40-00B	CMS	LC05	Digital	DL	201#	HCC4081BD	40-81B	CMS	LC05	Digital	DL
92#	HCC4000BF	40-00B	CMS	LC05	Digital	DL	202#	HCC4081BF	40-81B	CMS	LC05	Digital	DL
93#	HCC4000BK	40-00B	CMS	LC05	Digital	FL	203#	HCC4081BK	40-81B	CMS	LC05	Digital	DL
94#	HCC4001BD	40-01B	CMS	LC05	Digital	DL	204#	HCC4082BD	40-82B	CMS	LC05	Digital	DL
95#	HCC4001BF	40-01B	CMS	LC05	Digital	DL	205#	HCC4082BF	40-82B	CMS	LC05	Digital	DL
96#	HCC4001BK	40-01B	CMS	LC05	Digital	FL	206#	HCC4082BK	40-82B	CMS	LC05	Digital	FL
97#	HCC4002BD	40-02	CMS	LC05	Digital	DL	207#	HCC4085BD	40-85B	CMS	LC05	Digital	MO
98#	HCC4002BF	40-02B	CMS	LC05	Digital	DL	208#	HCC4085BF	40-85B	CMS	LC05	Digital	MO
99#	HCC4002BK	40-02B	CMS	LC05	Digital	DL	209#	HCC4085BK	40-85B	CMS	LC05	Digital	MO
100#	HCC4008BD	40-08B	CMS	LC15	Digital	DL	210#	HCC4086BD	40-86B	CMS	LC05	Digital	MO
101#	HCC4008BF	40-08B	CMS	LC15	Digital	DL	211#	HCC4086BF	40-86B	CMS	LC05	Digital	MO
102#	HCC4008BK	40-08B	CMS	LC15	Digital	DL	212#	HCC4086BK	40-86B	CMS	LC05	Digital	MO
103#	HCC4011BD	40-11B	CMS	LC05	Digital	DL	213#	HCC4095BD	4				

TYPE TO FUNCTIONAL EQUIVALENCE NUMBER

IN ORDER OF: (1) MFG TYPE NUMBER

LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY G P E	LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY G P E
1#	HCC4099BK	40-99B	CMS	LC26	Digital	FL	111#	HCF4072BF	40-72B	CMS	LC05	Digital	MO
2#	HCC4508BD	45-08B	CMS	LC26	Digital	DL	112#	HCF4073BE	40-73B	CMS	LC05	Digital	DL
3#	HCC4508BK	45-08B	CMS	LC26	Digital	FL	113#	HCF4079BF	40-79B	CMS	LC05	Digital	DL
4#	HCC4510BD	45-10B	CMS	LC11	Digital	DL	114#	HCF4079BE	40-79B	CMS	LC05	Digital	MO
5#	HCC4510BF	45-10B	CMS	LC11	Digital	DL	115#	HCF4079BF	40-79B	CMS	LC05	Digital	MO
6#	HCC4510BK	45-10B	CMS	LC11	Digital	FP	116#	HCF4078BF	40-78B	CMS	LC05	Digital	MO
7#	HCC4514BD	45-14B	CMS	LC06	Digital	DL	117#	HCF4078BE	40-78B	CMS	LC05	Digital	MO
8#	HCC4515BD	45-15B	CMS	LC06	Digital	DL	118#	HCF4081BE	40-81B	CMS	LC05	Digital	DL
9#	HCC4515BD	45-15B	CMS	LC06	Digital	DL	119#	HCF4081BF	40-81B	CMS	LC05	Digital	DL
10#	HCC4515BD	45-15B	CMS	LC11	Digital	DL	120#	HCF4082BE	40-82B	CMS	LC05	Digital	DL
11#	HCC4516BF	45-16B	CMS	LC11	Digital	DL	121#	HCF4082BF	40-82B	CMS	LC05	Digital	DL
12#	HCC4518BD	45-18B	CMS	LC11	Digital	DL	122#	HCF4085BE	40-85B	CMS	LC05	Digital	MO
13#	HCC4518BF	45-18B	CMS	LC11	Digital	DL	123#	HCF4085BF	40-85B	CMS	LC05	Digital	DL
14#	HCC4518BK	45-18B	CMS	LC11	Digital	FP	124#	HCF4086BE	40-86B	CMS	LC05	Digital	MO
15#	HCC4520BD	45-20B	CMS	LC11	Digital	DL	125#	HCF4086BF	40-86B	CMS	LC05	Digital	MO
16#	HCC4520BF	45-20B	CMS	LC11	Digital	FP	126#	HCF4095BE	40-95B	CMS	LC04	Digital	MO
17#	HCC4520BK	45-20B	CMS	LC11	Digital	FP	127#	HCF4095BF	40-95B	CMS	LC04	Digital	MO
18#	HCC4555BD	45-55B	CMS	LC06	Digital	MO	128#	HCF4098BE	40-98	CMS	LC10	Digital	MO
19#	HCC4555BF	45-55B	CMS	LC06	Digital	MO	129#	HCF4098BF	40-98	CMS	LC10	Digital	MO
20#	HCC4555BK	45-55B	CMS	LC06	Digital	MO	130#	HCF4099BE	40-99B	CMS	LC26	Digital	DL
21#	HCC4556BK	54S139W	CMS	LC06	Digital	MO	131#	HCF4099BF	40-99B	CMS	LC26	Digital	DL
22#	HCC40101BD	40-101B	CMS	LC25	Digital	DL	132#	HCF4508BD	45-08B	CMS	LC26	Digital	DL
23#	HCC40101BF	40-101B	CMS	LC25	Digital	DL	133#	HCF4508BE	45-08B	CMS	LC26	Digital	DL
24#	HCC40101BK	40-101B	CMS	LC25	Digital	FL	134#	HCF4510BE	45-10B	CMS	LC11	Digital	DL
25#	HCC40102BD	40-102B	CMS	LC11	Digital	DL	135#	HCF4510BF	45-10B	CMS	LC11	Digital	DL
26#	HCC40102BF	40-102B	CMS	LC11	Digital	FP	136#	HCF4514BE	45-14B	CMS	LC06	Digital	DL
27#	HCC40102BK	40-102B	CMS	LC11	Digital	FP	137#	HCF4515BD	45-15B	CMS	LC06	Digital	DL
28#	HCC40103BD	40-102	CMS	LC11	Digital	DL	138#	HCF4515BE	45-15B	CMS	LC06	Digital	DL
29#	HCC40103BF	40-102	CMS	LC11	Digital	DL	139#	HCF4516BE	45-16B	CMS	LC11	Digital	DL
30#	HCC40103BK	40-102	CMS	LC11	Digital	FP	140#	HCF4516BF	45-16B	CMS	LC11	Digital	DL
31#	HCC40160BD	74-160N	CMS	LC11	Digital	DL	141#	HCF4518BE	45-18B	CMS	LC11	Digital	DL
32#	HCC40160BF	74-160N	CMS	LC11	Digital	DL	142#	HCF4518BF	45-18B	CMS	LC11	Digital	DL
33#	HCC40160BK	54-160W	CMS	LC11	Digital	FP	143#	HCF4520BE	45-20B	CMS	LC11	Digital	DL
34#	HCC40161BD	74-161N	CMS	LC11	Digital	DL	144#	HCF4520BF	45-20B	CMS	LC11	Digital	DL
35#	HCC40161BF	74-161N	CMS	LC11	Digital	DL	145#	HCF4555BE	45-55B	CMS	LC06	Digital	MO
36#	HCC40161BK	54-161W	CMS	LC11	Digital	FP	146#	HCF4555BF	45-55B	CMS	LC06	Digital	MO
37#	HCC40162BD	74-162N	CMS	LC11	Digital	DL	147#	HCF40101BE	40-101B	CMS	LC25	Digital	DL
38#	HCC40162BF	74-162N	CMS	LC11	Digital	DL	148#	HCF40101BF	40-101B	CMS	LC25	Digital	DL
39#	HCC40162BK	54-162W	CMS	LC11	Digital	FP	149#	HCF40102BE	40-102B	CMS	LC11	Digital	DL
40#	HCC40163BD	74-163N	CMS	LC11	Digital	DL	150#	HCF40102BF	40-102B	CMS	LC11	Digital	DL
41#	HCC40163BF	74-163N	CMS	LC11	Digital	DL	151#	HCF40103BE	40-102	CMS	LC11	Digital	DL
42#	HCC40163BK	54-163W	CMS	LC11	Digital	FP	152#	HCF40103BF	40-102	CMS	LC11	Digital	DL
43#	HCC40174BD	54-174	CMS	LC04	Digital	DL	153#	HCF40160BE	74-160N	CMS	LC11	Digital	DL
44#	HCC40174BF	54-174	CMS	LC04	Digital	DL	154#	HCF40160BF	74-160N	CMS	LC11	Digital	DL
45#	HCC40174BK	54-174	CMS	LC04	Digital	FP	155#	HCF40161BE	74-161N	CMS	LC11	Digital	DL
46#	HCF4000BE	40-00B	CMS	LC05	Digital	DL	156#	HCF40161BF	74-161N	CMS	LC11	Digital	DL
47#	HCF4000BF	40-00B	CMS	LC05	Digital	DL	157#	HCF40162BE	74-162N	CMS	LC11	Digital	DL
48#	HCF4001BE	40-01B	CMS	LC05	Digital	DL	158#	HCF40162BF	74-162N	CMS	LC11	Digital	DL
49#	HCF4001BF	40-01B	CMS	LC05	Digital	DL	159#	HCF40163BE	74-163N	CMS	LC11	Digital	DL
50#	HCF4002BE	40-02B	CMS	LC05	Digital	DL	160#	HCF40163BF	74-163N	CMS	LC11	Digital	DL
51#	HCF4002BF	40-02B	CMS	LC05	Digital	DL	161#	HCF40174BE	54-174	CMS	LC04	Digital	DL
52#	HCF4008BF	40-08B	CMS	LC15	Digital	DL	162#	HCF40174BF	54-174	CMS	LC04	Digital	DL
53#	HCF4011BE	40-11B	CMS	LC05	Digital	DL	163#	HD74LS181	54-181	TTL	LC18	Digital	DL
54#	HCF4011BF	40-11B	CMS	LC05	Digital	DL	164#	HD74LS181P	54-181	TTL	LC18	Digital	DL
55#	HCF4012BE	40-12B	CMS	LC05	Digital	DL	165#	HD14002B	40-02	CMS	LC05	Digital	DL
56#	HCF4012BF	40-12B	CMS	LC05	Digital	DL	166#	HD14032B	40-32	CMS	LC15	Digital	DL
57#	HCF4013BE	40-13B	CMS	LC04	Digital	DL	167#	HD14038B	40-32	CMS	LC15	Digital	DL
58#	HCF4013BF	40-13B	CMS	LC04	Digital	DL	168#	HD14501UB	45-01	CMS	LC05	Digital	DL
59#	HCF4017BE	40-17B	CMS	LC11	Digital	DL	169#	HD14506B	45-06	CMS	LC05	Digital	DL
60#	HCF4017BF	40-102	CMS	LC11	Digital	DL	170#	HD14530B	45-30	MOS	LC27	Digital	DL
61#	HCF4018BE	40-18B	CMS	LC11	Digital	DL	171#	HD14534B	45-34	CMS	LC11	Digital	DL
62#	HCF4018BF	40-18B	CMS	LC11	Digital	DL	172#	HD14536B	45-36	CMS	LC10	Digital	DL
63#	HCF4019BE	40-19B	CMS	LC05	Digital	DL	173#	HD14553B	45-53	CMS	LC11	Digital	DL
64#	HCF4019BF	40-19B	CMS	LC05	Digital	DL	174#	HD14554B	45-54	CMS	LC16	Digital	DL
65#	HCF4022BE	40-22B	CMS	LC11	Digital	DL	175#	HD14572UB	45-72	MOS	LC27	Digital	DL
66#	HCF4022BF	40-22B	CMS	LC11	Digital	DL	176#	HEF4000	40-00B	CMS	LC05	Digital	DL
67#	HCF4023BE	40-23B	CMS	LC05	Digital	DL	177#	HEF4000B	40-00B	CMS	LC05	Digital	DL
68#	HCF4023BF	40-23B	CMS	LC05	Digital	DL	178#	HEF4001	40-01B	CMS	LC05	Digital	DL
69#	HCF4025BE	40-25B	CMS	LC05	Digital	DL	179#	HEF4001P	40-01B	CMS	LC05	Digital	DL
70#	HCF4025BF	40-25B	CMS	LC05	Digital	DL	180#	HEF4001U	40-01B	CMS	LC05	Digital	DL
71#	HCF4026BE	40-26B	CMS	LC11	Digital	N	181#	HEF4002	40-02B	CMS	LC05	Digital	DL
72#	HCF4026BF	40-26B	CMS	LC11	Digital	N	182#	HEF4002BDF	40-02	CMS	LC05	Digital	DL
73#	HCF4027BE	40-27B	CMS	LC04	Digital	DL	183#	HEF4002BPN	40-02	CMS	LC05	Digital	DL
74#	HCF4027BF	40-27B	CMS	LC04	Digital	DL	184#	HEF4002BTD	40-02	CMS	LC05	Digital	FL
75#	HCF4028BE	40-28B	CMS	LC06	Digital	DL	185#	HEF4002P	40-02B	CMS	LC05	Digital	DL
76#	HCF4028BF	40-28B	CMS	LC06	Digital	DL	186#	HEF4008	40-08B	CMS	LC15	Digital	DL
77#	HCF4029BF	40-29BF	CMS	LC11	Digital	DL	187#	HEF4008B	40-08B	CMS	LC15	Digital	DL
78#	HCF4030BE	74L86N	CMS	LC05	Digital	DL	188#	HEF4008P	40-08B	CMS	LC15	Digital	DL
79#	HCF4030BF	74L86N	CMS	LC05	Digital	DL	189#	HEF4011	40-11B	CMS	LC05	Digital	DL
80#	HCF4032BE	40-32B	CMS	LC15	Digital	DL	190#	HEF4011P	40-11B	CMS	LC05	Digital	DL
81#	HCF4032BF	40-32B	CMS	LC15	Digital	DL	191#	HEF4011U	40-11B	CMS	LC05	Digital	DL
82#	HCF4033BE	40-33B	CMS	LC11	Digital	DL	192#	HEF4012	40-12B	CMS	LC05	Digital	DL
83#	HCF4033BF	40-33B	CMS	LC11	Digital	DL	193#	HEF4012P	40-12B	CMS	LC05	Digital	DL
84#	HCF4038BE	40-38B	CMS	LC15	Digital	DL	194#	HEF4013P	40-13B	CMS	LC04	Digital	DL
85#	HCF4038BF	40-08B	CMS	LC15	Digital	DL	195#	HEF4017	40-17B	CMS	LC11	Digital	DL
86#	HCF4040BE	40-40B	CMS	LC11	Digital	DL	196#	HEF4017P	40-17B	CMS	LC11	Digital	DL
87#	HCF4040BF	40-40B	CMS	LC11	Digital	DL	197#	HEF4018	40-18B	CMS	LC11	Digital	DL
88#	HCF4042BE	40-42B	CMS	LC26	Digital	DL	198#	HEF4018P	40-18B	CMS	LC11	Digital	DL
89#	HCF4042BF	40-42B	CMS	LC26	Digital	DL	199#	HEF4020	40-20B	CMS	LC11	Digital	DL
90#	HCF4043BE	40-43B	CMS	LC26	Digital	DL	200#	HEF4020P	40-22B	CMS	LC11	Digital	DL
91#	HCF4043BF	40-43B	CMS	LC26	Digital	DL	201#	HEF4022	40-22B	CMS	LC11	Digital	DL
92#	HCF4044BE	40-44B	CMS	LC26	Digital	DL	202#	HEF4022P	40-22B	CMS	LC11	Digital	DL
93#	HCF4044BF	40-44B	CMS	LC26	Digital	DL	203#	HEF4023	40-23B	CMS	LC05	Digital	DL
94#	HCF4045BE	40-45	CMS	LC11	Digital	DL	204#	HEF4023BD	40-23B	CMS	LC05	Digital	DL
95#	HCF4045BF	40-45	CMS	LC11	Digital	DL	205#	HEF4023BP	40-23B	CMS	LC05	Digital	DL
96#	HCF4047BE	40-47	CMS	LC12	Digital	DL	206#	HEF4023P	40-23B	CMS	LC05	Digital	DL
97#	HCF4047BF	40-47	CMS	LC12	Digital	DL	207#	HEF4024	40-24B	CMS	LC11	Digital	DL
98#	HCF4048BE	40-48B	CMS	LC05	Digital	DL	208#	HEF4024BDF	40-24	CMS	LC11	Digital	DL
99#	HCF4048BF	40-48B	CMS	LC05	Digital	DL	209#	HEF4024BPN	40-24	CMS	LC11	Digital	DL
100#	HCF4060BE	40-60B	CMS	LC11	Digital	DL	210#	HEF4024BTD	40-24	CMS	LC11	Digital	FP
101#	HCF4060BF	40-60B	CMS	LC11	Digital	DL	211#	HEF4024P	40-24B	CMS	LC11	Digital	DL
102#	HCF4063BE	40-63B	CMS	LC17	Digital	DL	212#	HEF4025	40-25B	CMS			

TYPE TO FUNCTIONAL EQUIVALENCE NUMBER

IN ORDER OF: (1) MFG TYPE NUMBER

LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GPE	LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GPE
1#	HEF4029P	40-29B	CMS	LC11	Digital	DL	111#	M74ALS20AP	74-13N	TTL	LC05	Digital	DL
2#	HEF4030P	74L86N	CMS	LC05	Digital	DL	112#	M74ALS21P	74-21N	TTL	LC05	Digital	DL
3#	HEF4040	40-40B	CMS	LC11	Digital	DL	113#	M74ALS22AP	74-22N	TTL	LC05	Digital	DL
4#	HEF4040P	40-40B	CMS	LC11	Digital	DL	114#	M74ALS27P	74-27N	TTL	LC05	Digital	DL
5#	HEF4042	40-42B	CMS	LC26	Digital	DL	115#	M74ALS30P	74-30N	TTL	LC05	Digital	DL
6#	HEF4042P	40-42B	CMS	LC26	Digital	DL	116#	M74ALS32P	74-32N	TTL	LC05	Digital	DL
7#	HEF4043	40-43B	CMS	LC26	Digital	DL	117#	M74ALS33P	74-33N	TTL	LC05	Digital	DL
8#	HEF4043P	40-43B	CMS	LC26	Digital	DL	118#	M74ALS40P	74-13N	TTL	LC05	Digital	DL
9#	HEF4044	40-44B	CMS	LC26	Digital	DL	119#	M74ALS74P	74-74N	TTL	LC04	Digital	DL
10#	HEF4044B	40-44B	CMS	LC26	Digital	DL	120#	M74ALS112AP	74LS112N	TTL			DL
11#	HEF4044P	40-44B	CMS	LC26	Digital	DL	121#	M74ALS113AP	74LS113N	TTL	LC04	Digital	DL
12#	HEF4047B	40-47	CMS	LC12	Digital	DL	122#	M74ALS114AP	74LS114N	TTL	LC04	Digital	DL
13#	HEF4068	40-68B	CMS	LC05	Digital	DL	123#	M74ALS1008P	74-08N	TTL	LC05	Digital	DL
14#	HEF4068P	40-68B	CMS	LC05	Digital	DL	124#	M74ALS1020P	74-13N	TTL	LC05	Digital	DL
15#	HEF4069UBDF	40-69	CMS	LC05	Digital	DL	125#	M74LS00P	74-00N	TTL	LC05	Digital	DL
16#	HEF4069UBPN	40-69	CMS	LC05	Digital	DL	126#	M74LS02P	74-02N	TTL	LC05	Digital	DL
17#	HEF4069UBTD	40-69	CMS	LC05	Digital	DL	127#	M74LS03P	74-03N	TTL	LC05	Digital	DL
18#	HEF4070	74L86N	CMS	LC05	Digital	DL	128#	M74LS04P	74-04N	TTL	LC05	Digital	DL
19#	HEF4070P	74L86N	CMS	LC05	Digital	DL	129#	M74LS05P	74-05N	TTL	LC05	Digital	DL
20#	HEF4071	40-71B	CMS	LC05	Digital	DL	130#	M74LS08P	74-08N	TTL	LC05	Digital	DL
21#	HEF4071P	40-71B	CMS	LC05	Digital	DL	131#	M74LS09P	74-09N	TTL	LC05	Digital	DL
22#	HEF4072	40-72B	CMS	LC05	Digital	DL	132#	M74LS10P	74-10N	TTL	LC05	Digital	DL
23#	HEF4072P	40-72B	CMS	LC05	Digital	DL	133#	M74LS11P	74-11N	TTL	LC05	Digital	DL
24#	HEF4073	40-73B	CMS	LC05	Digital	DL	134#	M74LS12P	74-12N	TTL	LC05	Digital	DL
25#	HEF4073B	40-73B	CMS	LC05	Digital	DL	135#	M74LS15P	74H15N	TTL	LC05	Digital	DL
26#	HEF4073P	40-73B	CMS	LC05	Digital	DL	136#	M74LS20P	74-13N	TTL	LC05	Digital	DL
27#	HEF4075	40-75B	CMS	LC05	Digital	DL	137#	M74LS22P	74-22N	TTL	LC05	Digital	DL
28#	HEF4075B	40-75B	CMS	LC05	Digital	DL	138#	M74LS27P	74-27N	TTL	LC05	Digital	DL
29#	HEF4078	40-78B	CMS	LC05	Digital	DL	139#	M74LS30P	74-30N	TTL	LC05	Digital	DL
30#	HEF4078P	40-78B	CMS	LC05	Digital	DL	140#	M74LS32P	74-32N	TTL	LC05	Digital	DL
31#	HEF4081	40-81B	CMS	LC05	Digital	DL	141#	M74LS37P	74-00N	TTL	LC05	Digital	DL
32#	HEF4081P	40-81B	CMS	LC05	Digital	DL	142#	M74LS38P	74-03N	TTL	LC05	Digital	DL
33#	HEF4082P	40-82B	CMS	LC05	Digital	DL	143#	M74LS40P	74-13N	TTL	LC05	Digital	DL
34#	HEF4085	40-85B	CMS	LC05	Digital	DL	144#	M74LS42P	74-42N	TTL	LC06	Digital	DL
35#	HEF4085P	40-85B	CMS	LC05	Digital	DL	145#	M74LS47P	74-46N	TTL	LC06	Digital	DL
36#	HEF4086B	40-86B	CMS	LC05	Digital	DL	146#	M74LS48P	74-48N	TTL	LC06	Digital	DL
37#	HEF4086P	40-86B	CMS	LC05	Digital	DL	147#	M74LS51P	74LS11N	TTL	LC05	Digital	DL
38#	HEF4508	45-08B	CMS	LC26	Digital	DL	148#	M74LS73AP	74-73N	TTL	LC04	Digital	DL
39#	HEF4510	45-10B	CMS	LC11	Digital	DL	149#	M74LS74AP	74-74	TTL	LC04	Digital	DL
40#	HEF4510B	45-10B	CMS	LC11	Digital	DL	150#	M74LS75P	74-75N	TTL	LC26	Digital	DL
41#	HEF4510BDF	45-10	CMS	LC11	Digital	DL	151#	M74LS76AP	74LS76N	TTL	LC04	Digital	DL
42#	HEF4510BPN	45-10	CMS	LC11	Digital	DL	152#	M74LS83AP	74-83	TTL	LC15	Digital	DL
43#	HEF4510BTD	45-10	CMS	LC11	Digital	DL	153#	M74LS85P	74-85N	TTL	LC17	Digital	DL
44#	HEF4516	45-16B	CMS	LC11	Digital	DL	154#	M74LS86P	74-86N	TTL	LC05	Digital	DL
45#	HEF4516B	45-16B	CMS	LC11	Digital	DL	155#	M74LS90P	74-90N	TTL	LC11	Digital	DL
46#	HEF4518	45-18B	CMS	LC11	Digital	DL	156#	M74LS92P	74-92	TTL	LC11	Digital	DL
47#	HEF4518P	45-18B	CMS	LC11	Digital	DL	157#	M74LS93P	74LS93N	TTL	LC11	Digital	DL
48#	HEF4520	45-20B	CMS	LC11	Digital	DL	158#	M74LS107AP	74-107N	TTL	LC04	Digital	DL
49#	HEF4520P	45-20B	CMS	LC11	Digital	DL	159#	M74LS109AP	74-109	TTL	LC04	Digital	DL
50#	HEF4522	45-22B	CMS	LC11	Digital	DL	160#	M74LS112AP	74LS112N	TTL	LC04	Digital	DL
51#	HEF4526	45-26B	CMS	LC11	Digital	DL	161#	M74LS113AP	74LS113N	TTL	LC04	Digital	DL
52#	HEF4528B	45-28	CMS	LC10	Digital	DL	162#	M74LS114AP	74LS114N	TTL	LC04	Digital	DL
53#	HEF4531	45-31B	CMS	LC25	Digital	DL	163#	M74LS122P	74-122	TTL	LC10	Digital	DL
54#	HEF4531B	45-31B	CMS	LC25	Digital	DL	164#	M74LS123P	74-123	TTL	LC10	Digital	DL
55#	HEF4534	45-34B	CMS	LC11	Digital	DL	165#	M74LS133P	74S133N	TTL	LC05	Digital	DL
56#	HEF4541BDF	45-41	CMS	LC10	Digital	DL	166#	M74LS136P	74-136N	TTL	LC05	Digital	DL
57#	HEF4541BPN	45-41	CMS	LC10	Digital	DL	167#	M74LS138P	74S138N	TTL	LC06	Digital	DL
58#	HEF4541BTD	45-41	CMS	LC10	Digital	DL	168#	M74LS139P	74S139N	TTL	LC06	Digital	DL
59#	HEF4585	45-85B	CMS	LC17	Digital	DL	169#	M74LS145P	74-45N	TTL	LC06	Digital	DL
60#	HEF40180	74-160N	CMS	LC11	Digital	DL	170#	M74LS155P	74-155N	TTL	LC06	Digital	DL
61#	HEF40180BDF	74-160N	CMS	LC11	Digital	DL	171#	M74LS156P	74-156N	TTL	LC06	Digital	DL
62#	HEF40180BPN	74-160N	CMS	LC11	Digital	DL	172#	M74LS161AP	74-161N	TTL	LC11	Digital	DL
63#	HEF40180BTD	74-160	CMS	LC11	Digital	DL	173#	M74LS162AP	74-162	TTL	LC11	Digital	DL
64#	HEF40181	74-161N	CMS	LC11	Digital	DL	174#	M74LS163AP	74-163N	TTL	LC11	Digital	DL
65#	HEF40181BDF	74-161N	CMS	LC11	Digital	DL	175#	M74LS173AP	74-173N	TTL	LC04	Digital	DL
66#	HEF40181BPN	74-161N	CMS	LC11	Digital	DL	176#	M74LS175P	54-174	TTL	LC04	Digital	DL
67#	HEF40181BTD	74-161N	CMS	LC11	Digital	DL	177#	M74LS190P	74-190N	TTL	LC11	Digital	DL
68#	HEF40182	74-162	CMS	LC11	Digital	DL	178#	M74LS191P	74-191N	TTL	LC11	Digital	DL
69#	HEF40182B	74-162N	CMS	LC11	Digital	DL	179#	M74LS192P	74-192N	TTL	LC11	Digital	DL
70#	HEF40182BDF	74-162N	CMS	LC11	Digital	DL	180#	M74LS193P	74-193N	TTL	LC11	Digital	DL
71#	HEF40182BPN	74-162N	CMS	LC11	Digital	DL	181#	M74LS227P	74-221	TTL	LC10	Digital	DL
72#	HEF40182BTD	74-162	CMS	LC11	Digital	DL	182#	M74LS247P	74-246	TTL	LC06	Digital	DL
73#	HEF40183	74-163N	CMS	LC11	Digital	DL	183#	M74LS248P	74-248N	TTL	LC06	Digital	DL
74#	HEF40183B	74-163N	CMS	LC11	Digital	DL	184#	M74LS259P	74-259N	TTL	LC26	Digital	DL
75#	HEF40183BDF	74-163N	CMS	LC11	Digital	DL	185#	M74LS279P	74-279N	TTL	LC26	Digital	DL
76#	HEF40183BPN	74-163N	CMS	LC11	Digital	DL	186#	M74LS279P	74-279N	TTL	LC26	Digital	DL
77#	HEF40183BTD	74-163	CMS	LC11	Digital	DL	187#	M74LS280P	74S280N	TTL	LC25	Digital	DL
78#	HEF40174P	54-174	CMS	LC04	Digital	DL	188#	M74LS290P	74-290N	TTL	LC11	Digital	DL
79#	HEF40175BDF	74-175N	CMS	LC04	Digital	DL	189#	M74LS293P	74LS93N	TTL	LC11	Digital	DL
80#	HEF40175BPN	74-175N	CMS	LC04	Digital	DL	190#	M74LS365AP	74-365N	TTL	LC05	Digital	DL
81#	HEF40175BTD	74-175N	CMS	LC04	Digital	DL	191#	M74LS366AP	74-366N	TTL	LC05	Digital	DL
82#	HEF40175BTD	74-175	CMS	LC04	Digital	DL	192#	M74LS367AP	74-367N	TTL	LC05	Digital	DL
83#	HEF40175P	74-175N	CMS	LC04	Digital	DL	193#	M74LS368AP	74-368N	TTL	LC05	Digital	DL
84#	HEF40192	74-192N	CMS	LC11	Digital	DL	194#	M74LS377P	74LS377N	TTL	LC04	Digital	DL
85#	HEF40192BDF	74-192N	CMS	LC11	Digital	DL	195#	M74LS390P	74-390N	TTL	LC11	Digital	DL
86#	HEF40192BPN	74-192N	CMS	LC11	Digital	DL	196#	M74LS383P	74-383N	TTL	LC11	Digital	DL
87#	HEF40192BTD	74-192	CMS	LC11	Digital	DL	197#	M74LS480P	74-490	TTL	LC11	Digital	DL
88#	HEF40192P	74-192N	CMS	LC11	Digital	DL	198#	M4002BP	40-02	CMS	LC05	Digital	DL
89#	HEF40193	74-193N	CMS	LC11	Digital	DL	199#	M4017BP	40-17	CMS	LC11	Digital	DL
90#	HEF40193BDF	74-193N	CMS	LC11	Digital	DL	200#	M4018BP	40-18	CMS	LC11	Digital	DL
91#	HEF40193BPN	74-193N	CMS	LC11	Digital	DL	201#	M4019BP	40-19	CMS	LC05	Digital	DL
92#	HEF40193BTD	74-193	CMS	LC11	Digital	DL	202#	M4020BP	40-20	CMS	LC11	Digital	DL
93#	HEF40193P	74-193N	CMS	LC11	Digital	DL	203#	M4022BP	40-22	CMS	LC11	Digital	DL
94#	HEF40373B(A)	40-373	CMS	LC26	Digital	DL	204#	M4028BP	40-29	CMS	LC11	Digital	DL
95#	HEF40374B(A)	40-374	CMS	LC04	Digital	DL	205#	M4040BP	40-40	CMS	LC11	Digital	DL
96#	K155IE8	54-167	TTL	LC13	DIGITAL	DL	206#	M4063BP	74-85	CMS	LC17	Digital	DL
97#	K155IP3	54-181	TTL	LC18	Digital	DL	207#	M4072BP	40-172	CMS	LC05	Digital	DL
98#	LC4013B	40-13	CMS	LC04	Digital	DL	208#	M4508BP	45-08	CMS	LC26	Digital	DL
99#	LC4019B	40-19	CMS	LC05	Digital	DL	209#	M4516BP	45-16	CMS	LC11	Digital	DL
100#	M74ALS00AP	74-00N	TTL	LC05	Digital	DL	210#	M4520BP	45-20	CMS	LC11	Digital	

TYPE TO FUNCTIONAL EQUIVALENCE NUMBER

IN ORDER OF: (1) MFG TYPE NUMBER

LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY G P E	LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY G P E
1	JANM38510/00101CAA	54-30W	TTL	LC05	Digital	FL	111	JANM38510/00205BDB	54-74W	TTL	LC04	Digital	FP
2	JANM38510/00101CAB	54-30W	TTL	LC05	Digital	FL	112	JANM38510/00205CAB	54-74W	TTL	LC04	Digital	FP
3	JANM38510/00101CAC	54-30W	TTL	LC05	Digital	FL	113	JANM38510/00205CCA	74-74N	TTL	LC04	Digital	DL
4	JANM38510/00101CCA	74-30N	TTL	LC05	Digital	DL	114	JANM38510/00205CCB	74-74N	TTL	LC04	Digital	DL
5	JANM38510/00101CCB	74-30N	TTL	LC05	Digital	DL	115	JANM38510/00205CDA	54-74W	TTL	LC04	Digital	DL
6	JANM38510/00101CDA	54-30W	TTL	LC05	Digital	FL	116	JANM38510/00205CDB	54-74W	TTL	LC04	Digital	FP
7	JANM38510/00101CDB	54-30W	TTL	LC05	Digital	FL	117	JANM38510/00206BAA	54-70W	TTL	LC04	Digital	FP
8	JANM38510/00102BAA	54-20W	TTL	LC05	Digital	FL	118	JANM38510/00206BAB	54-70W	TTL	LC04	Digital	FP
9	JANM38510/00102BAB	54-20W	TTL	LC05	Digital	FL	119	JANM38510/00206BAC	74-70N	TTL	LC04	Digital	DL
10	JANM38510/00102BAC	54-20W	TTL	LC05	Digital	FL	120	JANM38510/00206BCB	74-70N	TTL	LC04	Digital	DL
11	JANM38510/00102BCA	74-13N	TTL	LC05	Digital	DL	121	JANM38510/00206BDA	54-70W	TTL	LC04	Digital	FP
12	JANM38510/00102BCB	74-13N	TTL	LC05	Digital	DL	122	JANM38510/00206CAA	54-70W	TTL	LC04	Digital	FP
13	JANM38510/00102BDA	54-20W	TTL	LC05	Digital	FL	123	JANM38510/00206CAB	54-70W	TTL	LC04	Digital	FP
14	JANM38510/00102BDB	54-20W	TTL	LC05	Digital	FL	124	JANM38510/00206CCA	74-70N	TTL	LC04	Digital	DL
15	JANM38510/00102CAA	54-20W	TTL	LC05	Digital	FL	125	JANM38510/00206CCB	74-70N	TTL	LC04	Digital	DL
16	JANM38510/00102CAB	54-20W	TTL	LC05	Digital	FL	126	JANM38510/00206CDA	54-70W	TTL	LC04	Digital	FP
17	JANM38510/00102CAC	54-20W	TTL	LC05	Digital	FL	127	JANM38510/00207BAA	54S74W	TTL	LC04	Digital	FP
18	JANM38510/00102CCA	74-13N	TTL	LC05	Digital	DL	128	JANM38510/00207BAB	54S74W	TTL	LC04	Digital	FP
19	JANM38510/00102CCB	74-13N	TTL	LC05	Digital	DL	129	JANM38510/00207BAC	74-74N	TTL	LC04	Digital	DL
20	JANM38510/00102CDA	54-20W	TTL	LC05	Digital	FL	130	JANM38510/00207BCB	74-74N	TTL	LC04	Digital	DL
21	JANM38510/00102CDB	54-20W	TTL	LC05	Digital	FL	131	JANM38510/00207CAA	54S74W	TTL	LC04	Digital	FP
22	JANM38510/00103BAA	54-10W	TTL	LC05	Digital	FL	132	JANM38510/00207CAB	54S74W	TTL	LC04	Digital	FP
23	JANM38510/00103BAB	54-10W	TTL	LC05	Digital	FL	133	JANM38510/00207CCA	74-74N	TTL	LC04	Digital	DL
24	JANM38510/00103BAC	54-10W	TTL	LC05	Digital	FL	134	JANM38510/00207CCB	74-74N	TTL	LC04	Digital	DL
25	JANM38510/00103BCA	74-10N	TTL	LC05	Digital	DL	135	JANM38510/00401BAA	54-02W	TTL	LC05	Digital	FL
26	JANM38510/00103BCB	74-10N	TTL	LC05	Digital	DL	136	JANM38510/00401BAB	54-02W	TTL	LC05	Digital	FL
27	JANM38510/00103BDA	54-10W	TTL	LC05	Digital	FL	137	JANM38510/00401BAC	54-02W	TTL	LC05	Digital	FL
28	JANM38510/00103BDB	54-10W	TTL	LC05	Digital	FL	138	JANM38510/00401BCA	74-02N	TTL	LC05	Digital	DL
29	JANM38510/00103CAA	54-10W	TTL	LC05	Digital	FL	139	JANM38510/00401BCB	74-02N	TTL	LC05	Digital	DL
30	JANM38510/00103CAB	54-10W	TTL	LC05	Digital	FL	140	JANM38510/00401BDA	54-02W	TTL	LC05	Digital	DL
31	JANM38510/00103CAC	54-10W	TTL	LC05	Digital	DL	141	JANM38510/00401BDB	54-02W	TTL	LC05	Digital	FL
32	JANM38510/00103CCA	74-10N	TTL	LC05	Digital	DL	142	JANM38510/00401CAA	54-02W	TTL	LC05	Digital	FL
33	JANM38510/00103CCB	74-10N	TTL	LC05	Digital	DL	143	JANM38510/00401CAB	54-02W	TTL	LC05	Digital	FL
34	JANM38510/00103CDA	54-10W	TTL	LC05	Digital	FL	144	JANM38510/00401CAC	54-02W	TTL	LC05	Digital	FL
35	JANM38510/00103CDB	54-10W	TTL	LC05	Digital	FL	145	JANM38510/00401CCA	74-02N	TTL	LC05	Digital	DL
36	JANM38510/00104BAA	54-00W	TTL	LC05	Digital	FL	146	JANM38510/00401CCB	74-02N	TTL	LC05	Digital	DL
37	JANM38510/00104BAB	54-00W	TTL	LC05	Digital	FL	147	JANM38510/00401CDA	54-02W	TTL	LC05	Digital	FL
38	JANM38510/00104BAC	54-00W	TTL	LC05	Digital	FL	148	JANM38510/00401CDB	54-02W	TTL	LC05	Digital	FL
39	JANM38510/00104BCA	74-00N	TTL	LC05	Digital	DL	149	JANM38510/00402BEA	74-23N	TTL	LC05	Digital	DL
40	JANM38510/00104BCB	74-00N	TTL	LC05	Digital	DL	150	JANM38510/00402BEB	74-23N	TTL	LC05	Digital	DL
41	JANM38510/00104BDA	54-00W	TTL	LC05	Digital	FL	151	JANM38510/00402BFA	54-23W	TTL	LC05	Digital	FL
42	JANM38510/00104BDB	54-00W	TTL	LC05	Digital	FL	152	JANM38510/00402BFB	54-23W	TTL	LC05	Digital	FL
43	JANM38510/00104CAA	54-00W	TTL	LC05	Digital	FL	153	JANM38510/00402CEA	74-23N	TTL	LC05	Digital	DL
44	JANM38510/00104CAB	54-00W	TTL	LC05	Digital	FL	154	JANM38510/00402CEB	74-23N	TTL	LC05	Digital	DL
45	JANM38510/00104CAC	54-00W	TTL	LC05	Digital	FL	155	JANM38510/00402CEA	54-23W	TTL	LC05	Digital	FL
46	JANM38510/00104CCA	74-00N	TTL	LC05	Digital	DL	156	JANM38510/00403BAA	54-25W	TTL	LC05	Digital	FL
47	JANM38510/00104CCB	74-00N	TTL	LC05	Digital	DL	157	JANM38510/00403BAB	54-25W	TTL	LC05	Digital	FL
48	JANM38510/00104CDA	54-00W	TTL	LC05	Digital	FL	158	JANM38510/00403BCA	74-25N	TTL	LC05	Digital	FL
49	JANM38510/00104CDB	54-00W	TTL	LC05	Digital	FL	159	JANM38510/00403BCB	74-25N	TTL	LC05	Digital	DL
50	JANM38510/00106BCB	74-12N	TTL	LC05	Digital	DL	160	JANM38510/00403CAA	54-25W	TTL	LC05	Digital	DL
51	JANM38510/00107BAA	54-01W	TTL	LC05	Digital	FL	161	JANM38510/00403CAB	74-25N	TTL	LC05	Digital	DL
52	JANM38510/00107BAB	54-01W	TTL	LC05	Digital	FL	162	JANM38510/00403CCA	74-25N	TTL	LC05	Digital	DL
53	JANM38510/00107BAC	54-01W	TTL	LC05	Digital	FL	163	JANM38510/00403CCB	74-25N	TTL	LC05	Digital	DL
54	JANM38510/00107BCA	74-01N	TTL	LC05	Digital	DL	164	JANM38510/00404BAA	54-27W	TTL	LC05	Digital	FL
55	JANM38510/00107BCB	74-01N	TTL	LC05	Digital	DL	165	JANM38510/00404BAB	54-27W	TTL	LC05	Digital	FL
56	JANM38510/00107BDA	54-01W	TTL	LC05	Digital	FL	166	JANM38510/00404BCA	74-27N	TTL	LC05	Digital	DL
57	JANM38510/00107BDB	54-01W	TTL	LC05	Digital	FL	167	JANM38510/00404BCB	74-27N	TTL	LC05	Digital	DL
58	JANM38510/00107CAA	54-01W	TTL	LC05	Digital	FL	168	JANM38510/00404BDA	54-27W	TTL	LC05	Digital	FL
59	JANM38510/00107CAB	54-01W	TTL	LC05	Digital	FL	169	JANM38510/00404BDB	54-27W	TTL	LC05	Digital	FL
60	JANM38510/00107CAC	54-01W	TTL	LC05	Digital	FL	170	JANM38510/00404CAA	54-27W	TTL	LC05	Digital	FL
61	JANM38510/00107CCA	74-01N	TTL	LC05	Digital	DL	171	JANM38510/00404CAB	54-27W	TTL	LC05	Digital	FL
62	JANM38510/00107CCB	74-01N	TTL	LC05	Digital	DL	172	JANM38510/00404CCA	74-27N	TTL	LC05	Digital	DL
63	JANM38510/00107CDA	54-01W	TTL	LC05	Digital	FL	173	JANM38510/00404CCB	74-27N	TTL	LC05	Digital	DL
64	JANM38510/00107CDB	54-01W	TTL	LC05	Digital	FL	174	JANM38510/00404CDA	54-27W	TTL	LC05	Digital	FL
65	JANM38510/00109BCA	74-03N	TTL	LC05	Digital	DL	175	JANM38510/00501BAA	54-50W	TTL	LC05	Digital	FL
66	JANM38510/00109BCB	74-03N	TTL	LC05	Digital	DL	176	JANM38510/00501BAB	54-50W	TTL	LC05	Digital	FL
67	JANM38510/00109CCA	74-03N	TTL	LC05	Digital	DL	177	JANM38510/00501BAC	54-50W	TTL	LC05	Digital	FL
68	JANM38510/00109CCB	74-03N	TTL	LC05	Digital	DL	178	JANM38510/00501BCA	74-50N	TTL	LC05	Digital	DL
69	JANM38510/00201BAA	54L71T	TTL	LC04	Digital	FP	179	JANM38510/00501BCB	74-50N	TTL	LC05	Digital	DL
70	JANM38510/00201BAC	54L71T	TTL	LC04	Digital	FP	180	JANM38510/00501BDA	54-50W	TTL	LC05	Digital	FL
71	JANM38510/00201BCA	74L71N	TTL	LC04	Digital	DL	181	JANM38510/00501BDB	54-50W	TTL	LC05	Digital	FL
72	JANM38510/00201BCB	74L71N	TTL	LC04	Digital	DL	182	JANM38510/00501CAA	54-50W	TTL	LC05	Digital	FL
73	JANM38510/00201BDA	54L71T	TTL	LC04	Digital	FP	183	JANM38510/00501CAB	54-50W	TTL	LC05	Digital	FL
74	JANM38510/00201BDB	54L71T	TTL	LC04	Digital	FP	184	JANM38510/00501CAC	54-50W	TTL	LC05	Digital	FL
75	JANM38510/00201CAA	54L71T	TTL	LC04	Digital	FP	185	JANM38510/00501CCA	74-50N	TTL	LC05	Digital	DL
76	JANM38510/00201CAC	54L71T	TTL	LC04	Digital	FP	186	JANM38510/00501CCB	74-50N	TTL	LC05	Digital	DL
77	JANM38510/00201CCA	74L71N	TTL	LC04	Digital	DL	187	JANM38510/00501CDA	54-50W	TTL	LC05	Digital	FL
78	JANM38510/00201CCB	74L71N	TTL	LC04	Digital	DL	188	JANM38510/00501CDB	54-50W	TTL	LC05	Digital	FL
79	JANM38510/00201CDA	54L71T	TTL	LC04	Digital	FP	189	JANM38510/00502BAA	54-51W	TTL	LC05	Digital	FL
80	JANM38510/00201CDB	54L71T	TTL	LC04	Digital	FP	190	JANM38510/00502BAB	54-51W	TTL	LC05	Digital	FL
81	JANM38510/00202BAA	54-73W	TTL	LC04	Digital	FP	191	JANM38510/00502BAC	54-51W	TTL	LC05	Digital	FL
82	JANM38510/00202BAB	54-73W	TTL	LC04	Digital	FP	192	JANM38510/00502BCA	74-50N	TTL	LC05	Digital	DL
83	JANM38510/00202BAC	54-73W	TTL	LC04	Digital	FP	193	JANM38510/00502BCB	74-50N	TTL	LC05	Digital	DL
84	JANM38510/00202BCA	74-73N	TTL	LC04	Digital	DL	194	JANM38510/00502BDA	54-51W	TTL	LC05	Digital	DL
85	JANM38510/00202BCB	74-73N	TTL	LC04	Digital	DL	195	JANM38510/00502BDB	54-51W	TTL	LC05	Digital	FL
86	JANM38510/00202BDA	54-73W	TTL	LC04	Digital	FP	196	JANM38510/00502CAA	54-51W	TTL	LC05	Digital	FL
87	JANM38510/00202BDB	54-73W	TTL	LC04	Digital	FP	197	JANM38510/00502CAB	54-51W	TTL	LC05	Digital	FL
88	JANM38510/00202CAA	54-73W	TTL	LC04	Digital	FP	198	JANM38510/00502CAC	54-51W	TTL	LC05	Digital	FL
89	JANM38510/00202CAB	54-73W	TTL	LC04	Digital	FP	199	JANM38510/00502CCA	74-50N	TTL	LC05	Digital	DL
90	JANM38510/00202CAC	54-73W	TTL	LC04	Digital	FP	200	JANM38510/00502CCB	74-50N	TTL	LC05	Digital	DL
91	JANM38510/00202CCA	74-73N	TTL	LC04	Digital	DL	201	JANM38510/00502CDA	5				

TYPE TO FUNCTIONAL EQUIVALENCE NUMBER

IN ORDER OF: (1) MFG TYPE NUMBER

LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GP E	LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GP E
1	JANM38510/00504BDA	54-54W	TTL	LC05	Digital	FL 111	JANM38510/01203CFA	54-123	TTL	LC10	Digital	FL 111	
2	JANM38510/00504BDB	54-54W	TTL	LC05	Digital	FL 112	JANM38510/01203CFB	54-123	TTL	LC10	Digital	FL 112	
3	JANM38510/00504CAA	54-54W	TTL	LC05	Digital	FL 113	JANM38510/01205BEA	45-28	TTL	LC10	Digital	FL 113	
4	JANM38510/00504CAB	54-54W	TTL	LC05	Digital	FL 114	JANM38510/01205BEB	45-28	TTL	LC10	Digital	FL 114	
5	JANM38510/00504CAC	54-54W	TTL	LC05	Digital	FL 115	JANM38510/01205BFA	45-28	TTL	LC10	Digital	FL 115	
6	JANM38510/00504CCA	74-53N	TTL	LC05	Digital	DL 116	JANM38510/01205BFB	45-28	TTL	LC10	Digital	FL 116	
7	JANM38510/00504CCB	74-53N	TTL	LC05	Digital	DL 117	JANM38510/01205CEA	45-28	TTL	LC10	Digital	DL 117	
8	JANM38510/00504CDA	54-54W	TTL	LC05	Digital	FL 118	JANM38510/01205CEB	45-28	TTL	LC10	Digital	FL 118	
9	JANM38510/00504CDB	54-54W	TTL	LC05	Digital	FL 119	JANM38510/01205CFA	45-28	TTL	LC10	Digital	FL 119	
10	JANM38510/00601BAA	54-82W	TTL	LC15	Digital	FL 120	JANM38510/01205CFB	45-28	TTL	LC10	Digital	FL 120	
11	JANM38510/00601BAB	54-82W	TTL	LC15	Digital	FL 121	JANM38510/01301BAA	54-92W	TTL	LC11	Digital	FL 121	
12	JANM38510/00601BACA	74-82N	TTL	LC15	Digital	DL 122	JANM38510/01301BAB	54-92W	TTL	LC11	Digital	DL 122	
13	JANM38510/00601BCB	74-82N	TTL	LC15	Digital	DL 123	JANM38510/01301BCA	74-92N	TTL	LC11	Digital	DL 123	
14	JANM38510/00601CAA	54-82W	TTL	LC15	Digital	FL 124	JANM38510/01301BCB	74-92N	TTL	LC11	Digital	FL 124	
15	JANM38510/00601CAB	54-82W	TTL	LC15	Digital	FL 125	JANM38510/01301BDA	54-92W	TTL	LC11	Digital	FL 125	
16	JANM38510/00601CBA	74-82N	TTL	LC15	Digital	DL 126	JANM38510/01301BDB	54-92W	TTL	LC11	Digital	DL 126	
17	JANM38510/00601CCB	74-82N	TTL	LC15	Digital	DL 127	JANM38510/01301CAA	54-92W	TTL	LC11	Digital	DL 127	
18	JANM38510/00602BEA	74-83	TTL	LC15	Digital	DL 128	JANM38510/01301CAB	54-92W	TTL	LC11	Digital	DL 128	
19	JANM38510/00602BEB	74-83	TTL	LC15	Digital	DL 129	JANM38510/01301CCA	74-92N	TTL	LC11	Digital	DL 129	
20	JANM38510/00602BFA	54-83	TTL	LC15	Digital	FL 130	JANM38510/01301CCB	74-92N	TTL	LC11	Digital	FL 130	
21	JANM38510/00602BFB	54-83	TTL	LC15	Digital	FL 131	JANM38510/01301CDA	54-92W	TTL	LC11	Digital	FL 131	
22	JANM38510/00602CEB	74-83	TTL	LC15	Digital	DL 132	JANM38510/01301CDB	54-92W	TTL	LC11	Digital	DL 132	
23	JANM38510/00602CFB	74-83	TTL	LC15	Digital	DL 133	JANM38510/01302BAA	54LS93	TTL	LC11	Digital	DL 133	
24	JANM38510/00602CFA	54-83	TTL	LC15	Digital	FL 134	JANM38510/01302BAB	54LS93	TTL	LC11	Digital	FL 134	
25	JANM38510/00602CFB	54-83	TTL	LC15	Digital	FL 135	JANM38510/01302BCA	74LS93N	TTL	LC11	Digital	FL 135	
26	JANM38510/00604BAA	54-80W	TTL	LC15	Digital	FL 136	JANM38510/01302BCB	74LS93N	TTL	LC11	Digital	FL 136	
27	JANM38510/00604BAB	54-80W	TTL	LC15	Digital	FL 137	JANM38510/01302BDA	54LS93	TTL	LC11	Digital	FL 137	
28	JANM38510/00604BAC	74-80N	TTL	LC15	Digital	DL 138	JANM38510/01302BDB	54LS93	TTL	LC11	Digital	DL 138	
29	JANM38510/00604BCB	74-80N	TTL	LC15	Digital	DL 139	JANM38510/01302CAA	54LS93	TTL	LC11	Digital	DL 139	
30	JANM38510/00604CAA	54-80W	TTL	LC15	Digital	FL 140	JANM38510/01302CAB	54LS93	TTL	LC11	Digital	FL 140	
31	JANM38510/00604CAB	54-80W	TTL	LC15	Digital	FL 141	JANM38510/01302CCA	74LS93N	TTL	LC11	Digital	FL 141	
32	JANM38510/00604CBA	74-80N	TTL	LC15	Digital	DL 142	JANM38510/01302CCB	74LS93N	TTL	LC11	Digital	DL 142	
33	JANM38510/00604CCB	74-80N	TTL	LC15	Digital	DL 143	JANM38510/01302CDA	54LS93	TTL	LC11	Digital	DL 143	
34	JANM38510/00701BAB	54-86W	TTL	LC05	Digital	FL 144	JANM38510/01302CDB	54LS93	TTL	LC11	Digital	FL 144	
35	JANM38510/00701BAC	54-86W	TTL	LC05	Digital	FL 145	JANM38510/01303BEA	74-160N	TTL	LC11	Digital	FL 145	
36	JANM38510/00701BCA	74-86N	TTL	LC05	Digital	DL 146	JANM38510/01303BEB	74-160N	TTL	LC11	Digital	DL 146	
37	JANM38510/00701BCB	74-86N	TTL	LC05	Digital	DL 147	JANM38510/01303BFA	54-160W	TTL	LC11	Digital	DL 147	
38	JANM38510/00701BDA	54-86W	TTL	LC05	Digital	FL 148	JANM38510/01303BFB	54-160W	TTL	LC11	Digital	FL 148	
39	JANM38510/00701BDB	54-86W	TTL	LC05	Digital	FL 149	JANM38510/01303CEA	74-160N	TTL	LC11	Digital	FL 149	
40	JANM38510/00701CAA	54-86W	TTL	LC05	Digital	FL 150	JANM38510/01303CEB	74-160N	TTL	LC11	Digital	FL 150	
41	JANM38510/00701CAB	54-86W	TTL	LC05	Digital	FL 151	JANM38510/01303CFA	54-160W	TTL	LC11	Digital	FL 151	
42	JANM38510/00701CAC	54-86W	TTL	LC05	Digital	FL 152	JANM38510/01303CFB	54-160W	TTL	LC11	Digital	FL 152	
43	JANM38510/00701CCA	74-86N	TTL	LC05	Digital	DL 153	JANM38510/01304BEA	74-163N	TTL	LC11	Digital	DL 153	
44	JANM38510/00701CCB	74-86N	TTL	LC05	Digital	DL 154	JANM38510/01304BEB	74-163N	TTL	LC11	Digital	DL 154	
45	JANM38510/00701CDA	54-86W	TTL	LC05	Digital	FL 155	JANM38510/01304BFA	54-163W	TTL	LC11	Digital	FL 155	
46	JANM38510/00701CDB	54-86W	TTL	LC05	Digital	FL 156	JANM38510/01304BFB	54-163W	TTL	LC11	Digital	FL 156	
47	JANM38510/01001BEA	74-42N	TTL	LC06	Digital	DL 157	JANM38510/01304CEA	74-163N	TTL	LC11	Digital	DL 157	
48	JANM38510/01001BEB	74-42N	TTL	LC06	Digital	DL 158	JANM38510/01304CEB	74-163N	TTL	LC11	Digital	DL 158	
49	JANM38510/01001BFA	74-42N	TTL	LC06	Digital	DL 159	JANM38510/01304CFA	54-163W	TTL	LC11	Digital	DL 159	
50	JANM38510/01001BFB	54LS42W	TTL	LC06	Digital	FL 160	JANM38510/01304CFB	54-163W	TTL	LC11	Digital	FL 160	
51	JANM38510/01001CEA	74-42N	TTL	LC06	Digital	DL 161	JANM38510/01305BEA	74-162N	TTL	LC11	Digital	DL 161	
52	JANM38510/01001CEB	74-42N	TTL	LC06	Digital	DL 162	JANM38510/01305BEB	74-162N	TTL	LC11	Digital	DL 162	
53	JANM38510/01001CFA	74-42N	TTL	LC06	Digital	DL 163	JANM38510/01305BFA	54-162W	TTL	LC11	Digital	DL 163	
54	JANM38510/01001CFB	54LS42W	TTL	LC06	Digital	FL 164	JANM38510/01305BFB	54-162W	TTL	LC11	Digital	FL 164	
55	JANM38510/01002BEA	74-43N	TTL	LC06	Digital	DL 165	JANM38510/01305CEA	74-162N	TTL	LC11	Digital	DL 165	
56	JANM38510/01002BEB	74-43N	TTL	LC06	Digital	DL 166	JANM38510/01305CEB	74-162N	TTL	LC11	Digital	DL 166	
57	JANM38510/01002BFA	74-43N	TTL	LC06	Digital	DL 167	JANM38510/01305CFA	54-162W	TTL	LC11	Digital	DL 167	
58	JANM38510/01002BFB	54-43W	TTL	LC06	Digital	FL 168	JANM38510/01305CFB	54-162W	TTL	LC11	Digital	FL 168	
59	JANM38510/01002CEA	74-43N	TTL	LC06	Digital	DL 169	JANM38510/01306BEA	74-161N	TTL	LC11	Digital	DL 169	
60	JANM38510/01002CEB	74-43N	TTL	LC06	Digital	DL 170	JANM38510/01306BEB	74-161N	TTL	LC11	Digital	DL 170	
61	JANM38510/01002CFA	74-43N	TTL	LC06	Digital	DL 171	JANM38510/01306BFA	54-161W	TTL	LC11	Digital	DL 171	
62	JANM38510/01002CFB	54-43W	TTL	LC06	Digital	FL 172	JANM38510/01306BFB	54-161W	TTL	LC11	Digital	FL 172	
63	JANM38510/01003BEA	74-44N	TTL	LC06	Digital	DL 173	JANM38510/01306CEA	74-161N	TTL	LC11	Digital	DL 173	
64	JANM38510/01003BEB	74-44N	TTL	LC06	Digital	DL 174	JANM38510/01306CEB	74-161N	TTL	LC11	Digital	DL 174	
65	JANM38510/01003BFA	74-44N	TTL	LC06	Digital	DL 175	JANM38510/01306CFA	54-161W	TTL	LC11	Digital	DL 175	
66	JANM38510/01003BFB	54-44W	TTL	LC06	Digital	FL 176	JANM38510/01306CFB	54-161W	TTL	LC11	Digital	FL 176	
67	JANM38510/01003CEA	74-44N	TTL	LC06	Digital	DL 177	JANM38510/01307BAA	54-90W	TTL	LC11	Digital	DL 177	
68	JANM38510/01003CEB	74-44N	TTL	LC06	Digital	DL 178	JANM38510/01307BAB	54-90W	TTL	LC11	Digital	DL 178	
69	JANM38510/01003CFA	74-44N	TTL	LC06	Digital	DL 179	JANM38510/01307BCA	74-90N	TTL	LC11	Digital	DL 179	
70	JANM38510/01003CFB	54-44W	TTL	LC06	Digital	FL 180	JANM38510/01307BCB	74-90N	TTL	LC11	Digital	FL 180	
71	JANM38510/01101BJA	74-181	TTL	LC18	Digital	DL 181	JANM38510/01307BDA	54-90W	TTL	LC11	Digital	DL 181	
72	JANM38510/01101BJB	74-181	TTL	LC18	Digital	DL 182	JANM38510/01307BDB	54-90W	TTL	LC11	Digital	DL 182	
73	JANM38510/01101BKB	54-181	TTL	LC18	Digital	FL 183	JANM38510/01307CAA	54-90W	TTL	LC11	Digital	FL 183	
74	JANM38510/01101CJA	74-181	TTL	LC18	Digital	DL 184	JANM38510/01307CAB	54-90W	TTL	LC11	Digital	DL 184	
75	JANM38510/01101CJB	74-181	TTL	LC18	Digital	DL 185	JANM38510/01307CCA	74-90N	TTL	LC11	Digital	DL 185	
76	JANM38510/01101CKB	54-181	TTL	LC18	Digital	FL 186	JANM38510/01307CCB	74-90N	TTL	LC11	Digital	FL 186	
77	JANM38510/01102BEA	74-182	TTL	LC19	Digital	DL 187	JANM38510/01307CDA	54-90W	TTL	LC11	Digital	DL 187	
78	JANM38510/01102BEB	74-182	TTL	LC19	Digital	DL 188	JANM38510/01307CDB	54-90W	TTL	LC11	Digital	DL 188	
79	JANM38510/01102BFA	54-182	TTL	LC19	Digital	FL 189	JANM38510/01308BEA	74-192N	TTL	LC11	Digital	FL 189	
80	JANM38510/01102BFB	54-182	TTL	LC19	Digital	FL 190	JANM38510/01308BEB	74-192N	TTL	LC11	Digital	FL 190	
81	JANM38510/01102CEA	74-182	TTL	LC19	Digital	DL 191	JANM38510/01308BFA	54-192W	TTL	LC11	Digital	DL 191	
82	JANM38510/01102CEB	74-182	TTL	LC19	Digital	DL 192	JANM38510/01308BFB	54-192W	TTL	LC11	Digital	DL 192	
83	JANM38510/01102CFA	54-182	TTL	LC19	Digital	FL 193	JANM38510/01308CEA	74-192N	TTL	LC11	Digital	FL 193	
84	JANM38510/01102CFB	54-182	TTL	LC19	Digital	FL 194	JANM38510/01308CEB	74-192N	TTL	LC11	Digital	FL 194	
85	JANM38510/01201BAA	54-121	TTL	LC10	Digital	FL 195	JANM38510/01308CFA	54-192W	TTL	LC11	Digital	FL 195	
86	JANM38510/01201BAB	54-121	TTL	LC10	Digital	FL 196	JANM38510/01308CFB	54-192W	TTL	LC11	Digital	FL 196	
87	JANM38510/01201BCA	74-121	TTL	LC10	Digital	DL 197	JANM38510/01309BEA	74-193N	TTL	LC11	Digital	DL 197	
88	JANM38510/01201BCB	74-121	TTL	LC10	Digital	DL 198	JANM38510/01309BEB	74-193N	TTL	LC11	Digital	DL 198	
89	JANM38510/01201BDA	54-121	TTL	LC10	Digital	FL 199	JANM38510/01309BFA	54-193W	TTL	LC11	Digital	FL 199	
90	JANM38510/01201BDB	54-121	TTL	LC10	Digital	FL 200	JANM38510/01309BFB	54-193W	TTL	LC11	Digital	FL 200	
91	JANM38510/01201CAA	54-12											

TYPE TO FUNCTIONAL EQUIVALENCE NUMBER

IN ORDER OF: (1) MFG TYPE NUMBER

LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GP E	LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GP E
1	JANM38510/01502CCA	74LS77N	TTL	LC26	Digital	DL	111	JANM38510/02101BDA	54L71T	TTL	LC04	Digital	FP
2	JANM38510/01502CCB	74LS77N	TTL	LC26	Digital	DL	112	JANM38510/02101BDB	54L71T	TTL	LC04	Digital	FP
3	JANM38510/01502CDA	54-77W	TTL	LC26	Digital	FL	113	JANM38510/02101CAA	54L71T	TTL	LC04	Digital	FP
4	JANM38510/01502CDB	54-77W	TTL	LC26	Digital	FL	114	JANM38510/02101CAC	54L71T	TTL	LC04	Digital	FP
5	JANM38510/01601BAA	54S08W	TTL	LC05	Digital	FL	115	JANM38510/02101CCA	74L71N	TTL	LC04	Digital	DL
6	JANM38510/01601BAB	54S08W	TTL	LC05	Digital	FL	116	JANM38510/02101CCB	74L71N	TTL	LC04	Digital	DL
7	JANM38510/01601BCA	74-08N	TTL	LC05	Digital	DL	117	JANM38510/02101CDA	54L71T	TTL	LC04	Digital	FP
8	JANM38510/01601BCB	74-08N	TTL	LC05	Digital	DL	118	JANM38510/02101CDB	54L71T	TTL	LC04	Digital	FP
9	JANM38510/01601BDA	54S08W	TTL	LC05	Digital	FL	119	JANM38510/02102BAA	54L71T	TTL	LC04	Digital	FP
10	JANM38510/01601BDB	54S08W	TTL	LC05	Digital	FL	120	JANM38510/02102BAC	54L71T	TTL	LC04	Digital	FP
11	JANM38510/01601CAA	54S08W	TTL	LC05	Digital	FL	121	JANM38510/02102BCA	74L71N	TTL	LC04	Digital	DL
12	JANM38510/01601CAB	54S08W	TTL	LC05	Digital	FL	122	JANM38510/02102BCB	74L71N	TTL	LC04	Digital	DL
13	JANM38510/01601CCA	74-08N	TTL	LC05	Digital	DL	123	JANM38510/02102BDA	54L71T	TTL	LC04	Digital	FP
14	JANM38510/01601CCB	74-08N	TTL	LC05	Digital	DL	124	JANM38510/02102BDB	54L71T	TTL	LC04	Digital	FP
15	JANM38510/01601CDA	54S08W	TTL	LC05	Digital	FL	125	JANM38510/02102CAA	54L71T	TTL	LC04	Digital	FP
16	JANM38510/01601CDB	54S08W	TTL	LC05	Digital	FL	126	JANM38510/02102CAC	54L71T	TTL	LC04	Digital	FP
17	JANM38510/01602BAA	54S09W	TTL	LC05	Digital	FL	127	JANM38510/02102CCA	74L71N	TTL	LC04	Digital	DL
18	JANM38510/01602BAB	54S09W	TTL	LC05	Digital	FL	128	JANM38510/02102CCB	74L71N	TTL	LC04	Digital	DL
19	JANM38510/01602BCA	74-09N	TTL	LC05	Digital	DL	129	JANM38510/02102CDA	54L71T	TTL	LC04	Digital	FP
20	JANM38510/01602BCB	74-09N	TTL	LC05	Digital	DL	130	JANM38510/02102CDB	54L71T	TTL	LC04	Digital	FP
21	JANM38510/01602BDA	54S09W	TTL	LC05	Digital	FL	131	JANM38510/02103BAA	54-73W	TTL	LC04	Digital	FP
22	JANM38510/01602BDB	54S09W	TTL	LC05	Digital	FL	132	JANM38510/02103BAC	54-73W	TTL	LC04	Digital	FP
23	JANM38510/01602CAA	54S09W	TTL	LC05	Digital	FL	133	JANM38510/02103BCA	74-73N	TTL	LC04	Digital	DL
24	JANM38510/01602CAB	54S09W	TTL	LC05	Digital	FL	134	JANM38510/02103BCB	74-73N	TTL	LC04	Digital	DL
25	JANM38510/01602CCA	74-09N	TTL	LC05	Digital	DL	135	JANM38510/02103BDA	74-73N	TTL	LC04	Digital	DL
26	JANM38510/01602CCB	74-09N	TTL	LC05	Digital	DL	136	JANM38510/02103BDB	74-73N	TTL	LC04	Digital	DL
27	JANM38510/01602CDA	54S09W	TTL	LC05	Digital	FL	137	JANM38510/02103CAA	54-73W	TTL	LC04	Digital	FP
28	JANM38510/01602CDB	54S09W	TTL	LC05	Digital	FL	138	JANM38510/02103CAC	54-73W	TTL	LC04	Digital	FP
29	JANM38510/01701BEA	74-174N	TTL	LC04	Digital	DL	139	JANM38510/02103CCA	74-73N	TTL	LC04	Digital	DL
30	JANM38510/01701BEB	74-174N	TTL	LC04	Digital	DL	140	JANM38510/02103CCB	74-73N	TTL	LC04	Digital	DL
31	JANM38510/01701BFA	54-174W	TTL	LC04	Digital	FP	141	JANM38510/02103CDA	54-73W	TTL	LC04	Digital	FP
32	JANM38510/01701BFB	54-174W	TTL	LC04	Digital	FP	142	JANM38510/02103CDB	54-73W	TTL	LC04	Digital	FP
33	JANM38510/01701CEA	74-174N	TTL	LC04	Digital	DL	143	JANM38510/02104BAA	54L78T	TTL	LC04	Digital	FP
34	JANM38510/01701CEB	74-174N	TTL	LC04	Digital	DL	144	JANM38510/02104BAC	54L78T	TTL	LC04	Digital	FP
35	JANM38510/01701CFA	54-174W	TTL	LC04	Digital	FP	145	JANM38510/02104BCA	74L78N	TTL	LC04	Digital	DL
36	JANM38510/01701CFB	54-174W	TTL	LC04	Digital	FP	146	JANM38510/02104BCB	74L78N	TTL	LC04	Digital	DL
37	JANM38510/01702BEA	74-175N	TTL	LC04	Digital	DL	147	JANM38510/02104BDA	54L78T	TTL	LC04	Digital	FP
38	JANM38510/01702BEB	74-175N	TTL	LC04	Digital	DL	148	JANM38510/02104BDB	54L78T	TTL	LC04	Digital	FP
39	JANM38510/01702BFA	54-175W	TTL	LC04	Digital	FP	149	JANM38510/02104CAA	54L78T	TTL	LC04	Digital	FP
40	JANM38510/01702BFB	54-175W	TTL	LC04	Digital	FP	150	JANM38510/02104CCA	74L78N	TTL	LC04	Digital	DL
41	JANM38510/01702CEA	74-175N	TTL	LC04	Digital	DL	151	JANM38510/02104CCB	74L78N	TTL	LC04	Digital	DL
42	JANM38510/01702CEB	74-175N	TTL	LC04	Digital	DL	152	JANM38510/02104CDA	54L78T	TTL	LC04	Digital	FP
43	JANM38510/01702CFA	54-175W	TTL	LC04	Digital	FP	153	JANM38510/02104CDB	54L78T	TTL	LC04	Digital	FP
44	JANM38510/01702CFB	54-175W	TTL	LC04	Digital	FP	154	JANM38510/02105BAA	54-74W	TTL	LC04	Digital	FP
45	JANM38510/01901BAA	54-180W	TTL	LC25	Digital	FL	155	JANM38510/02105BAC	54-74W	TTL	LC04	Digital	FP
46	JANM38510/01901BAB	54-180W	TTL	LC25	Digital	FL	156	JANM38510/02105BCA	74-74N	TTL	LC04	Digital	DL
47	JANM38510/01901BCA	74-180N	TTL	LC25	Digital	DL	157	JANM38510/02105BCB	74-74N	TTL	LC04	Digital	DL
48	JANM38510/01901BCB	74-180N	TTL	LC25	Digital	DL	158	JANM38510/02105BDA	54-74W	TTL	LC04	Digital	FP
49	JANM38510/01901BDA	54-180W	TTL	LC25	Digital	FL	159	JANM38510/02105BDB	54-74W	TTL	LC04	Digital	FP
50	JANM38510/01901BDB	54-180W	TTL	LC25	Digital	FL	160	JANM38510/02105CAA	54-74W	TTL	LC04	Digital	FP
51	JANM38510/01901CAA	54-180W	TTL	LC25	Digital	FL	161	JANM38510/02105CAC	54-74W	TTL	LC04	Digital	FP
52	JANM38510/01901CAB	54-180W	TTL	LC25	Digital	FL	162	JANM38510/02105CCA	74-74N	TTL	LC04	Digital	DL
53	JANM38510/01901CCA	74-180N	TTL	LC25	Digital	DL	163	JANM38510/02105CCB	74-74N	TTL	LC04	Digital	DL
54	JANM38510/01901CCB	74-180N	TTL	LC25	Digital	DL	164	JANM38510/02105CDA	54-74W	TTL	LC04	Digital	FP
55	JANM38510/01901CDA	54-180W	TTL	LC25	Digital	FL	165	JANM38510/02105CDB	54-74W	TTL	LC04	Digital	FP
56	JANM38510/01901CDB	54-180W	TTL	LC25	Digital	FL	166	JANM38510/02201BAA	54L71T	TTL	LC04	Digital	FP
57	JANM38510/02001BAA	54-30W	TTL	LC05	Digital	FL	167	JANM38510/02201BAB	54L71T	TTL	LC04	Digital	FP
58	JANM38510/02001BAC	54-30W	TTL	LC05	Digital	FL	168	JANM38510/02201BCA	74L71N	TTL	LC04	Digital	DL
59	JANM38510/02001BCA	74-30N	TTL	LC05	Digital	DL	169	JANM38510/02201BCB	74L71N	TTL	LC04	Digital	DL
60	JANM38510/02001BCB	74-30N	TTL	LC05	Digital	DL	170	JANM38510/02201BDA	54L71T	TTL	LC04	Digital	FP
61	JANM38510/02001BDA	54-30W	TTL	LC05	Digital	FL	171	JANM38510/02201BDB	54L71T	TTL	LC04	Digital	FP
62	JANM38510/02001BDB	54-30W	TTL	LC05	Digital	FL	172	JANM38510/02201CAA	54L71T	TTL	LC04	Digital	FP
63	JANM38510/02001CAA	54-30W	TTL	LC05	Digital	FL	173	JANM38510/02201CAB	54L71T	TTL	LC04	Digital	FP
64	JANM38510/02001CAC	54-30W	TTL	LC05	Digital	FL	174	JANM38510/02201CCA	74L71N	TTL	LC04	Digital	DL
65	JANM38510/02001CCA	74-30N	TTL	LC05	Digital	DL	175	JANM38510/02201CCB	74L71N	TTL	LC04	Digital	DL
66	JANM38510/02001CCB	74-30N	TTL	LC05	Digital	DL	176	JANM38510/02201CDA	54L71T	TTL	LC04	Digital	FP
67	JANM38510/02001CDA	54-30W	TTL	LC05	Digital	FL	177	JANM38510/02201CDB	54L71T	TTL	LC04	Digital	FP
68	JANM38510/02001CDB	54-30W	TTL	LC05	Digital	FL	178	JANM38510/02202BAA	54-73W	TTL	LC04	Digital	FP
69	JANM38510/02002BAA	54-20W	TTL	LC05	Digital	FL	179	JANM38510/02202BAB	54-73W	TTL	LC04	Digital	FP
70	JANM38510/02002BAC	54-20W	TTL	LC05	Digital	FL	180	JANM38510/02202BCA	74-73N	TTL	LC04	Digital	DL
71	JANM38510/02002BCA	74-13N	TTL	LC05	Digital	DL	181	JANM38510/02202BCB	74-73N	TTL	LC04	Digital	DL
72	JANM38510/02002BCB	74-13N	TTL	LC05	Digital	DL	182	JANM38510/02202BDA	54-73W	TTL	LC04	Digital	FP
73	JANM38510/02002BDA	54-20W	TTL	LC05	Digital	FL	183	JANM38510/02202BDB	54-73W	TTL	LC04	Digital	FP
74	JANM38510/02002BDB	54-20W	TTL	LC05	Digital	FL	184	JANM38510/02202CAA	54-73W	TTL	LC04	Digital	FP
75	JANM38510/02002CAA	54-20W	TTL	LC05	Digital	FL	185	JANM38510/02202CAB	54-73W	TTL	LC04	Digital	FP
76	JANM38510/02002CAC	54-20W	TTL	LC05	Digital	FL	186	JANM38510/02202CCA	74-73N	TTL	LC04	Digital	DL
77	JANM38510/02002CCA	74-13N	TTL	LC05	Digital	DL	187	JANM38510/02202CCB	74-73N	TTL	LC04	Digital	DL
78	JANM38510/02002CCB	74-13N	TTL	LC05	Digital	DL	188	JANM38510/02202CDA	54-73W	TTL	LC04	Digital	FP
79	JANM38510/02002CDA	54-20W	TTL	LC05	Digital	FL	189	JANM38510/02202CDB	54-73W	TTL	LC04	Digital	FP
80	JANM38510/02002CDB	54-20W	TTL	LC05	Digital	FL	190	JANM38510/02203BCA	74-74N	TTL	LC04	Digital	DL
81	JANM38510/02003BAA	54-10W	TTL	LC05	Digital	FL	191	JANM38510/02203BCB	74-74N	TTL	LC04	Digital	DL
82	JANM38510/02003BAC	54-10W	TTL	LC05	Digital	FL	192	JANM38510/02203BDA	54-74W	TTL	LC04	Digital	FP
83	JANM38510/02003BCA	74-10N	TTL	LC05	Digital	DL	193	JANM38510/02203BDB	54-74W	TTL	LC04	Digital	FP
84	JANM38510/02003BCB	74-10N	TTL	LC05	Digital	DL	194	JANM38510/02203CCA	74-74N	TTL	LC04	Digital	DL
85	JANM38510/02003BDA	54-10W	TTL	LC05	Digital	FL	195	JANM38510/02203CCB	74-74N	TTL	LC04	Digital	DL
86	JANM38510/02003BDB	54-10W	TTL	LC05	Digital	FL	196	JANM38510/02203CDA	54-74W	TTL	LC04	Digital	FP
87	JANM38510/02003CAA	54-10W	TTL	LC05	Digital	FL	197	JANM38510/02203CDB	54-74W	TTL	LC04	Digital	FP
88	JANM38510/02003CAC	54-10W	TTL	LC05	Digital	FL	198	JANM38510/02204BEA	74LS76N	TTL	LC04	Digital	DL
89	JANM38510/02003CCA	74-10N	TTL	LC05	Digital	DL	199	JANM38510/02204BEB	74LS76N	TTL	LC04	Digital	DL
90	JANM38510/02003CCB	74-10N	TTL	LC05	Digital	DL	200	JANM38510/02204BFA	54LS76W	TTL	LC04	Digital	FP
91	JANM38510/02003CDA	54-10W	TTL	LC05	Digital								

TYPE TO FUNCTIONAL EQUIVALENCE NUMBER

IN ORDER OF: (1) MFG TYPE NUMBER

LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GP E	LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GP E
1	JANM38510/02206BCB	74H103	TTL	LC04	Digital	DL	111	JANM38510/03004BAC	54S00W	DTL	LC05	Digital	FL
2	JANM38510/02206BDA	54H103	TTL	LC04	Digital	DL	112	JANM38510/03004BCB	74-00N	DTL	LC05	Digital	DL
3	JANM38510/02206BDB	54H103	TTL	LC04	Digital	FP	113	JANM38510/03004CAB	54S00W	DTL	LC05	Digital	FL
4	JANM38510/02206CAA	54H103	TTL	LC04	Digital	FP	114	JANM38510/03004CAC	54S00W	DTL	LC05	Digital	FL
5	JANM38510/02206CAB	54H103	TTL	LC04	Digital	DL	115	JANM38510/03004CCB	74-00N	DTL	LC05	Digital	DL
6	JANM38510/02206CCA	74H103	TTL	LC04	Digital	FP	116	JANM38510/03005BAB	54S10W	DTL	LC05	Digital	FL
7	JANM38510/02206CCB	74H103	TTL	LC04	Digital	DL	117	JANM38510/03005BAC	54S10W	DTL	LC05	Digital	FL
8	JANM38510/02206CDB	54H103	TTL	LC04	Digital	FP	118	JANM38510/03005BCB	74-10N	DTL	LC05	Digital	DL
9	JANM38510/02206CDB	54H103	TTL	LC04	Digital	FP	119	JANM38510/03005CAB	54S10W	DTL	LC05	Digital	FL
10	JANM38510/02301BAA	54-30W	TTL	LC05	Digital	FL	120	JANM38510/03005CAC	54S10W	DTL	LC05	Digital	FL
11	JANM38510/02301BAB	54-30W	TTL	LC05	Digital	FL	121	JANM38510/03005CAB	74-10N	DTL	LC05	Digital	DL
12	JANM38510/02301BAC	54-30W	TTL	LC05	Digital	FL	122	JANM38510/04001BAA	54-50W	TTL	LC05	Digital	FL
13	JANM38510/02301BCA	74-30N	TTL	LC05	Digital	DL	123	JANM38510/04001BAB	54-50W	TTL	LC05	Digital	FL
14	JANM38510/02301BCB	74-30N	TTL	LC05	Digital	DL	124	JANM38510/04001BAC	74-50N	TTL	LC05	Digital	DL
15	JANM38510/02301BDA	54-30W	TTL	LC05	Digital	FL	125	JANM38510/04001BCB	74-50N	TTL	LC05	Digital	DL
16	JANM38510/02301CAA	54-30W	TTL	LC05	Digital	FL	126	JANM38510/04001BDA	54-50W	TTL	LC05	Digital	FL
17	JANM38510/02301CAB	54-30W	TTL	LC05	Digital	FL	127	JANM38510/04001BDB	54-50W	TTL	LC05	Digital	FL
18	JANM38510/02301CAC	54-30W	TTL	LC05	Digital	FL	128	JANM38510/04001CAA	54-50W	TTL	LC05	Digital	FL
19	JANM38510/02301CCA	74-30N	TTL	LC05	Digital	DL	129	JANM38510/04001CAB	54-50W	TTL	LC05	Digital	FL
20	JANM38510/02301CCB	74-30N	TTL	LC05	Digital	DL	130	JANM38510/04001CCA	74-50N	TTL	LC05	Digital	DL
21	JANM38510/02301CDA	54-30W	TTL	LC05	Digital	FL	131	JANM38510/04001CCB	74-50N	TTL	LC05	Digital	DL
22	JANM38510/02302BAA	54-20W	TTL	LC05	Digital	FL	132	JANM38510/04001CDA	54-50W	TTL	LC05	Digital	FL
23	JANM38510/02302BAB	54-20W	TTL	LC05	Digital	FL	133	JANM38510/04001CDB	54-50W	TTL	LC05	Digital	FL
24	JANM38510/02302BAC	74-13N	TTL	LC05	Digital	DL	134	JANM38510/04002BAA	54-51W	TTL	LC05	Digital	FL
25	JANM38510/02302BCB	74-13N	TTL	LC05	Digital	DL	135	JANM38510/04002BAB	54-51W	TTL	LC05	Digital	FL
26	JANM38510/02302BDA	74-13N	TTL	LC05	Digital	FL	136	JANM38510/04002BAC	74-50N	TTL	LC05	Digital	DL
27	JANM38510/02302BDB	74-13N	TTL	LC05	Digital	FL	137	JANM38510/04002BCB	74-50N	TTL	LC05	Digital	DL
28	JANM38510/02302CAA	54-20W	TTL	LC05	Digital	FL	138	JANM38510/04002BDA	54-51W	TTL	LC05	Digital	FL
29	JANM38510/02302CAB	54-20W	TTL	LC05	Digital	FL	139	JANM38510/04002BDB	54-51W	TTL	LC05	Digital	FL
30	JANM38510/02302CAC	74-13N	TTL	LC05	Digital	DL	140	JANM38510/04002CAA	54-51W	TTL	LC05	Digital	FL
31	JANM38510/02302CCB	74-13N	TTL	LC05	Digital	DL	141	JANM38510/04002CAB	54-51W	TTL	LC05	Digital	FL
32	JANM38510/02302CDA	74-13N	TTL	LC05	Digital	FL	142	JANM38510/04002CCA	74-50N	TTL	LC05	Digital	DL
33	JANM38510/02302CDB	74-13N	TTL	LC05	Digital	FL	143	JANM38510/04002CCB	74-50N	TTL	LC05	Digital	DL
34	JANM38510/02303BAA	54-10W	TTL	LC05	Digital	FL	144	JANM38510/04002CDA	54-51W	TTL	LC05	Digital	FL
35	JANM38510/02303BAB	54-10W	TTL	LC05	Digital	FL	145	JANM38510/04002CDB	54-51W	TTL	LC05	Digital	FL
36	JANM38510/02303BAC	74-10N	TTL	LC05	Digital	DL	146	JANM38510/04003BAA	54H53W	TTL	LC05	Digital	FL
37	JANM38510/02303BCB	74-10N	TTL	LC05	Digital	DL	147	JANM38510/04003BAB	54H53W	TTL	LC05	Digital	FL
38	JANM38510/02303BDA	54-10W	TTL	LC05	Digital	FL	148	JANM38510/04003BAC	74H53N	TTL	LC05	Digital	DL
39	JANM38510/02303BDB	54-10W	TTL	LC05	Digital	FL	149	JANM38510/04003BCB	74H53N	TTL	LC05	Digital	DL
40	JANM38510/02303CAA	54-10W	TTL	LC05	Digital	FL	150	JANM38510/04003BDA	54H53W	TTL	LC05	Digital	FL
41	JANM38510/02303CAB	54-10W	TTL	LC05	Digital	FL	151	JANM38510/04003BDB	54H53W	TTL	LC05	Digital	FL
42	JANM38510/02303CCA	74-10N	TTL	LC05	Digital	DL	152	JANM38510/04003CAA	54H53W	TTL	LC05	Digital	FL
43	JANM38510/02303CCB	74-10N	TTL	LC05	Digital	DL	153	JANM38510/04003CAB	54H53W	TTL	LC05	Digital	FL
44	JANM38510/02303CDA	54-10W	TTL	LC05	Digital	FL	154	JANM38510/04003CCA	74H53N	TTL	LC05	Digital	DL
45	JANM38510/02303CDB	54-10W	TTL	LC05	Digital	FL	155	JANM38510/04003CCB	74H53N	TTL	LC05	Digital	DL
46	JANM38510/02304BAA	54-00W	TTL	LC05	Digital	FL	156	JANM38510/04003CDA	54H53W	TTL	LC05	Digital	FL
47	JANM38510/02304BAB	54-00W	TTL	LC05	Digital	FL	157	JANM38510/04003CDB	54H53W	TTL	LC05	Digital	FL
48	JANM38510/02304BAC	74-00N	TTL	LC05	Digital	DL	158	JANM38510/04004BAA	54H54W	TTL	LC05	Digital	FL
49	JANM38510/02304BCB	74-00N	TTL	LC05	Digital	DL	159	JANM38510/04004BAB	54H54W	TTL	LC05	Digital	FL
50	JANM38510/02304BDA	54-00W	TTL	LC05	Digital	FL	160	JANM38510/04004BAC	74H54N	TTL	LC05	Digital	DL
51	JANM38510/02304BDB	54-00W	TTL	LC05	Digital	FL	161	JANM38510/04004BCB	74H54N	TTL	LC05	Digital	DL
52	JANM38510/02304CAA	54-00W	TTL	LC05	Digital	FL	162	JANM38510/04004BDA	54H54W	TTL	LC05	Digital	FL
53	JANM38510/02304CAB	54-00W	TTL	LC05	Digital	FL	163	JANM38510/04004BDB	54H54W	TTL	LC05	Digital	FL
54	JANM38510/02304ACC	74-00N	TTL	LC05	Digital	DL	164	JANM38510/04004CAA	54H54W	TTL	LC05	Digital	FL
55	JANM38510/02304ACB	74-00N	TTL	LC05	Digital	DL	165	JANM38510/04004CAB	54H54W	TTL	LC05	Digital	FL
56	JANM38510/02304ACD	54-00W	TTL	LC05	Digital	FL	166	JANM38510/04004CCA	74H54N	TTL	LC05	Digital	DL
57	JANM38510/02304ACB	54-00W	TTL	LC05	Digital	FL	167	JANM38510/04004CCB	74H54N	TTL	LC05	Digital	DL
58	JANM38510/02306BAA	54-01W	TTL	LC05	Digital	FL	168	JANM38510/04004CDA	54H54W	TTL	LC05	Digital	FL
59	JANM38510/02306BAB	54-01W	TTL	LC05	Digital	FL	169	JANM38510/04005BAA	54H55W	TTL	LC05	Digital	FL
60	JANM38510/02306BAC	74-03N	TTL	LC05	Digital	DL	170	JANM38510/04005BAB	54H55W	TTL	LC05	Digital	FL
61	JANM38510/02306BCB	74-03N	TTL	LC05	Digital	DL	171	JANM38510/04005BCA	74H55N	TTL	LC05	Digital	DL
62	JANM38510/02306BDA	54-01W	TTL	LC05	Digital	FL	172	JANM38510/04005BCB	74H55N	TTL	LC05	Digital	DL
63	JANM38510/02306BDB	54-01W	TTL	LC05	Digital	FL	173	JANM38510/04005BDA	54H55W	TTL	LC05	Digital	FL
64	JANM38510/02306CAA	54-01W	TTL	LC05	Digital	FL	174	JANM38510/04005BDB	54H55W	TTL	LC05	Digital	FL
65	JANM38510/02306CAB	54-01W	TTL	LC05	Digital	FL	175	JANM38510/04005CAA	54H55W	TTL	LC05	Digital	FL
66	JANM38510/02306CCA	74-03N	TTL	LC05	Digital	DL	176	JANM38510/04005CAB	54H55W	TTL	LC05	Digital	FL
67	JANM38510/02306CCB	74-03N	TTL	LC05	Digital	DL	177	JANM38510/04005CCA	74H55N	TTL	LC05	Digital	DL
68	JANM38510/02306CDA	54-01W	TTL	LC05	Digital	FL	178	JANM38510/04005CCB	74H55N	TTL	LC05	Digital	DL
69	JANM38510/02306CDB	54-01W	TTL	LC05	Digital	FL	179	JANM38510/04005CDA	54H55W	TTL	LC05	Digital	FL
70	JANM38510/02307BAA	54H22W	TTL	LC05	Digital	FL	180	JANM38510/05000CDB	54H55W	TTL	LC05	Digital	FL
71	JANM38510/02307BAB	54H22W	TTL	LC05	Digital	FL	181	JANM38510/05001BAA	40-11B	CMS	LC05	Digital	FL
72	JANM38510/02307BAC	74-22N	TTL	LC05	Digital	DL	182	JANM38510/05001BAC	40-11B	CMS	LC05	Digital	FL
73	JANM38510/02307BCB	74-22N	TTL	LC05	Digital	DL	183	JANM38510/05001BCA	40-11B	CMS	LC05	Digital	DL
74	JANM38510/02307CAA	54H22W	TTL	LC05	Digital	FL	184	JANM38510/05001BCB	40-11B	CMS	LC05	Digital	DL
75	JANM38510/02307CAB	54H22W	TTL	LC05	Digital	FL	185	JANM38510/05001BCC	40-11B	CMS	LC05	Digital	DL
76	JANM38510/02307CCA	74-22N	TTL	LC05	Digital	DL	186	JANM38510/05001BDA	40-11B	CMS	LC05	Digital	FL
77	JANM38510/02307CCB	74-22N	TTL	LC05	Digital	DL	187	JANM38510/05001CAA	40-11B	CMS	LC05	Digital	FL
78	JANM38510/02501BCA	74-90N	TTL	LC11	Digital	DL	188	JANM38510/05001CAC	40-11B	CMS	LC05	Digital	FL
79	JANM38510/02501BCB	54-90W	TTL	LC11	Digital	DL	189	JANM38510/05001CCA	74-09N	CMS	LC05	Digital	DL
80	JANM38510/02501BDA	54-90W	TTL	LC11	Digital	FP	190	JANM38510/05001CCB	40-11B	CMS	LC05	Digital	DL
81	JANM38510/02501BDB	54-90W	TTL	LC11	Digital	FP	191	JANM38510/05001CDA	40-11B	CMS	LC05	Digital	FL
82	JANM38510/02501CCA	74-90N	TTL	LC11	Digital	DL	192	JANM38510/05002BAA	40-12B	CMS	LC05	Digital	FL
83	JANM38510/02501CCB	54-90W	TTL	LC11	Digital	DL	193	JANM38510/05002BAC	40-12B	CMS	LC05	Digital	FL
84	JANM38510/02501CDA	54-90W	TTL	LC11	Digital	FP	194	JANM38510/05002BCA	40-12B	CMS	LC05	Digital	FL
85	JANM38510/02501CDB	54-90W	TTL	LC11	Digital	FP	195	JANM38510/05002BCB	40-12B	CMS	LC05	Digital	DL
86	JANM38510/02502BCA	74L93N	TTL	LC11	Digital	DL	196	JANM38510/05002BCC	40-12B	CMS	LC05	Digital	DL
87	JANM38510/02502BCB	74L93N	TTL	LC11	Digital	DL	197	JANM38510/05002BDA	40-12B	CMS	LC05	Digital	FL
88	JANM38510/02502BDA	54L93T	TTL	LC11	Digital	FP	198	JANM38510/05002CAA	40-12B	CMS	LC05	Digital	FL
89	JANM38510/02502BDB	54L93T	TTL	LC11	Digital	FP	199	JANM38510/05002CAC	40-12B	CMS	LC05	Digital	FL
90	JANM38510/02502CCA	74L93N	TTL	LC11	Digital	DL	200	JANM38510/05002CCA	40-12B	CMS	LC05	Digital	FL
91	JANM38510/02502CCB	74L93N	TTL	LC11	Digital	DL	201						

TYPE TO FUNCTIONAL EQUIVALENCE NUMBER

IN ORDER OF: (1) MFG TYPE NUMBER

LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GPE	LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GPE
1	JANM38510/05101CCB	40-13B	CMS	LC04	Digital	DL	111	JANM38510/05604CEC	40-22B	CMS	LC11	Digital	DL
2	JANM38510/05101CDA	40-13B	CMS	LC04	Digital	FP	112	JANM38510/05604CFA	40-22B	CMS	LC11	Digital	FP
3	JANM38510/05102BEA	40-27B	CMS	LC04	Digital	DL	113	JANM38510/05605ACA	40-24B	CMS	LC11	Digital	DL
4	JANM38510/05102BEB	40-27B	CMS	LC04	Digital	DL	114	JANM38510/05605ADA	40-24B	CMS	LC11	Digital	DL
5	JANM38510/05102BEC	40-27B	CMS	LC04	Digital	DL	115	JANM38510/05605BCA	40-24B	CMS	LC11	Digital	DL
6	JANM38510/05102BFA	40-27B	CMS	LC04	Digital	FP	116	JANM38510/05605BCB	40-24B	CMS	LC11	Digital	FP
7	JANM38510/05102BFC	40-27B	CMS	LC04	Digital	FP	117	JANM38510/05605BCC	40-24B	CMS	LC11	Digital	FP
8	JANM38510/05102CEB	40-27B	CMS	LC04	Digital	FP	118	JANM38510/05605BDA	40-24B	CMS	LC11	Digital	FP
9	JANM38510/05102CFA	40-27B	CMS	LC04	Digital	FP	119	JANM38510/05605CCA	40-24B	CMS	LC11	Digital	FP
10	JANM38510/05102CFB	40-27B	CMS	LC04	Digital	FP	120	JANM38510/05605CCB	40-24B	CMS	LC11	Digital	FP
11	JANM38510/05102CFC	40-27B	CMS	LC04	Digital	FP	121	JANM38510/05605CCC	40-24B	CMS	LC11	Digital	FP
12	JANM38510/05201ACA	40-00B	CMS	LC05	Digital	DL	122	JANM38510/05605CDA	40-24B	CMS	LC11	Digital	FP
13	JANM38510/05201BCA	40-00B	CMS	LC05	Digital	DL	123	JANM38510/07001BAB	54S00W	TTL	LC05	Digital	FL
14	JANM38510/05201BCB	40-00B	CMS	LC05	Digital	DL	124	JANM38510/07001BAC	54S00W	TTL	LC05	Digital	FL
15	JANM38510/05201BCC	40-00B	CMS	LC05	Digital	DL	125	JANM38510/07001BCA	74-00N	TTL	LC04	Digital	DL
16	JANM38510/05201CCA	40-00B	CMS	LC05	Digital	DL	126	JANM38510/07001BCB	74-00N	TTL	LC04	Digital	DL
17	JANM38510/05201CCB	40-00B	CMS	LC05	Digital	DL	127	JANM38510/07001BDA	54S00W	TTL	LC04	Digital	FP
18	JANM38510/05202ADA	40-01B	CMS	LC05	Digital	FL	128	JANM38510/07001BDB	54S00W	TTL	LC04	Digital	FP
19	JANM38510/05202BAC	40-01B	CMS	LC05	Digital	FL	129	JANM38510/07001CAB	54S00W	TTL	LC05	Digital	FL
20	JANM38510/05202BCA	40-01B	CMS	LC05	Digital	FL	130	JANM38510/07001CAC	54S00W	TTL	LC05	Digital	FL
21	JANM38510/05202BCB	40-01B	CMS	LC05	Digital	FL	131	JANM38510/07001CCA	74-00N	TTL	LC04	Digital	DL
22	JANM38510/05202BCC	40-01B	CMS	LC05	Digital	DL	132	JANM38510/07001CCB	74-00N	TTL	LC04	Digital	DL
23	JANM38510/05202BDA	40-01B	CMS	LC05	Digital	FL	133	JANM38510/07001CDA	54S00W	TTL	LC04	Digital	FP
24	JANM38510/05202CAA	40-01B	CMS	LC05	Digital	FL	134	JANM38510/07001CDB	54S00W	TTL	LC04	Digital	FP
25	JANM38510/05202CAC	40-01B	CMS	LC05	Digital	DL	135	JANM38510/07002BCA	74-03N	TTL	LC05	Digital	DL
26	JANM38510/05202CCA	40-01B	CMS	LC05	Digital	DL	136	JANM38510/07002BCB	74-03N	TTL	LC05	Digital	DL
27	JANM38510/05202CCB	40-01B	CMS	LC05	Digital	DL	137	JANM38510/07002BDA	54S03W	TTL	LC05	Digital	FL
28	JANM38510/05202CDA	40-01B	CMS	LC05	Digital	FL	138	JANM38510/07002BDB	54S03W	TTL	LC05	Digital	FL
29	JANM38510/05203ACA	40-02B	CMS	LC05	Digital	FL	139	JANM38510/07002CCA	74-03N	TTL	LC05	Digital	DL
30	JANM38510/05203ADA	40-02B	CMS	LC05	Digital	FL	140	JANM38510/07002CCB	74-03N	TTL	LC05	Digital	DL
31	JANM38510/05203BAA	40-02B	CMS	LC05	Digital	FL	141	JANM38510/07002CDA	54S03W	TTL	LC05	Digital	FL
32	JANM38510/05203BAC	40-02B	CMS	LC05	Digital	FL	142	JANM38510/07002CDB	54S03W	TTL	LC05	Digital	FL
33	JANM38510/05203BCA	40-02B	CMS	LC05	Digital	DL	143	JANM38510/07005BAB	54S10W	TTL	LC05	Digital	FL
34	JANM38510/05203BCB	40-02B	CMS	LC05	Digital	DL	144	JANM38510/07005BAC	54S10W	TTL	LC05	Digital	FL
35	JANM38510/05203BCC	40-02B	CMS	LC05	Digital	DL	145	JANM38510/07005BCA	74-10N	TTL	LC05	Digital	DL
36	JANM38510/05203BDA	40-02B	CMS	LC05	Digital	DL	146	JANM38510/07005BCB	74-10N	TTL	LC05	Digital	DL
37	JANM38510/05203CAA	40-02B	CMS	LC05	Digital	FL	147	JANM38510/07005BDA	54S10W	TTL	LC05	Digital	FL
38	JANM38510/05203CAC	40-02B	CMS	LC05	Digital	FL	148	JANM38510/07005BDB	54S10W	TTL	LC05	Digital	FL
39	JANM38510/05203CCA	40-02B	CMS	LC05	Digital	DL	149	JANM38510/07005CAB	54S10W	TTL	LC05	Digital	FL
40	JANM38510/05203CCB	40-02B	CMS	LC05	Digital	DL	150	JANM38510/07005CAC	54S10W	TTL	LC05	Digital	FL
41	JANM38510/05203CDA	40-02B	CMS	LC05	Digital	DL	151	JANM38510/07005CCA	74-10N	TTL	LC05	Digital	DL
42	JANM38510/05204ACA	40-25B	CMS	LC05	Digital	DL	152	JANM38510/07005CCB	74-10N	TTL	LC05	Digital	DL
43	JANM38510/05204ADA	40-25B	CMS	LC05	Digital	FL	153	JANM38510/07005CDA	54S10W	TTL	LC05	Digital	FL
44	JANM38510/05204BAC	40-25B	CMS	LC05	Digital	FL	154	JANM38510/07005CDB	54S10W	TTL	LC05	Digital	FL
45	JANM38510/05204BCA	40-25B	CMS	LC05	Digital	DL	155	JANM38510/07006BAB	54-13W	TTL	LC05	Digital	FL
46	JANM38510/05204BCB	40-25B	CMS	LC05	Digital	DL	156	JANM38510/07006BAC	54-13W	TTL	LC05	Digital	FL
47	JANM38510/05204BCC	40-25B	CMS	LC05	Digital	DL	157	JANM38510/07006BCA	74-13N	TTL	LC05	Digital	DL
48	JANM38510/05204BDA	40-25B	CMS	LC05	Digital	DL	158	JANM38510/07006BCB	74-13N	TTL	LC05	Digital	DL
49	JANM38510/05204CAC	40-25B	CMS	LC05	Digital	DL	159	JANM38510/07006BDA	54-13W	TTL	LC05	Digital	FL
50	JANM38510/05204CCA	40-25B	CMS	LC05	Digital	DL	160	JANM38510/07006BDB	54-13W	TTL	LC05	Digital	FL
51	JANM38510/05204CCB	40-25B	CMS	LC05	Digital	DL	161	JANM38510/07006CAB	54-13W	TTL	LC05	Digital	FL
52	JANM38510/05204CDA	40-25B	CMS	LC05	Digital	FL	162	JANM38510/07006CAC	54-13W	TTL	LC05	Digital	FL
53	JANM38510/05302AFA	40-19B	CMS	LC05	Digital	FL	163	JANM38510/07006CCA	74-13N	TTL	LC05	Digital	DL
54	JANM38510/05302BEA	40-19B	CMS	LC05	Digital	FL	164	JANM38510/07006CCB	74-13N	TTL	LC05	Digital	DL
55	JANM38510/05302BEB	40-19B	CMS	LC05	Digital	DL	165	JANM38510/07006CDA	54-13W	TTL	LC05	Digital	FL
56	JANM38510/05302BEC	40-19B	CMS	LC05	Digital	DL	166	JANM38510/07006CDB	54-13W	TTL	LC05	Digital	FL
57	JANM38510/05302BFA	40-19B	CMS	LC05	Digital	DL	167	JANM38510/07007BCA	74-22N	TTL	LC05	Digital	DL
58	JANM38510/05302CEB	40-19B	CMS	LC05	Digital	DL	168	JANM38510/07007BCB	74-22N	TTL	LC05	Digital	DL
59	JANM38510/05302CFA	40-19	CMS	LC05	Digital	FL	169	JANM38510/07007BDA	54-22W	TTL	LC05	Digital	FL
60	JANM38510/05303BAA	54L86T	CMS	LC05	Digital	FL	170	JANM38510/07007BDB	54-22W	TTL	LC05	Digital	FL
61	JANM38510/05303BAB	54L86T	CMS	LC05	Digital	FL	171	JANM38510/07007CCA	74-22N	TTL	LC05	Digital	FL
62	JANM38510/05303BAC	54L86T	CMS	LC05	Digital	FL	172	JANM38510/07007CCB	74-22N	TTL	LC05	Digital	FL
63	JANM38510/05303BCA	74L86N	CMS	LC05	Digital	DL	173	JANM38510/07007CDA	54-22W	TTL	LC05	Digital	FL
64	JANM38510/05303BCB	74L86N	CMS	LC05	Digital	DL	174	JANM38510/07007CDB	54-22W	TTL	LC05	Digital	FL
65	JANM38510/05303BCC	74L86N	CMS	LC05	Digital	DL	175	JANM38510/07008BAB	54S30W	TTL	LC05	Digital	FL
66	JANM38510/05303CAA	54L86T	CMS	LC05	Digital	DL	176	JANM38510/07008BAC	54S30W	TTL	LC05	Digital	FL
67	JANM38510/05303CAB	54L86T	CMS	LC05	Digital	FL	177	JANM38510/07008BCB	74-30N	TTL	LC05	Digital	DL
68	JANM38510/05303CAC	54L86T	CMS	LC05	Digital	FL	178	JANM38510/07008CAB	54S30W	TTL	LC05	Digital	DL
69	JANM38510/05303CCA	74L86N	CMS	LC05	Digital	DL	179	JANM38510/07008CAC	54S30W	TTL	LC05	Digital	FL
70	JANM38510/05333CCB	74L86N	CMS	LC05	Digital	DL	180	JANM38510/07008CCB	74-30N	TTL	LC05	Digital	DL
71	JANM38510/05401BEA	40-08B	CMS	LC15	Digital	DL	181	JANM38510/07009BEA	74S133N	TTL	LC05	Digital	DL
72	JANM38510/05401BEB	40-08B	CMS	LC15	Digital	DL	182	JANM38510/07009BEB	74S133N	TTL	LC05	Digital	DL
73	JANM38510/05401BFA	40-08B	CMS	LC15	Digital	FL	183	JANM38510/07009BFA	54S133W	TTL	LC05	Digital	DL
74	JANM38510/05401BFC	40-08B	CMS	LC15	Digital	FL	184	JANM38510/07009BFB	54S133W	TTL	LC05	Digital	DL
75	JANM38510/05401CEB	40-08B	CMS	LC15	Digital	DL	185	JANM38510/07009CEA	74S133N	TTL	LC05	Digital	DL
76	JANM38510/05401CFA	40-08B	CMS	LC15	Digital	FL	186	JANM38510/07009CEB	74S133N	TTL	LC05	Digital	DL
77	JANM38510/05401CFC	40-08B	CMS	LC15	Digital	FL	187	JANM38510/07009CFA	54S133W	TTL	LC05	Digital	FL
78	JANM38510/05601AFA	40-17B	CMS	LC11	Digital	FP	188	JANM38510/07009CFB	54S133W	TTL	LC05	Digital	FL
79	JANM38510/05601BEA	40-17B	CMS	LC11	Digital	DL	189	JANM38510/07010BEA	74S134N	TTL	LC05	Digital	DL
80	JANM38510/05601BEB	40-17B	CMS	LC11	Digital	DL	190	JANM38510/07010BEB	74S134N	TTL	LC05	Digital	DL
81	JANM38510/05601BEC	40-17B	CMS	LC11	Digital	DL	191	JANM38510/07010BFA	54S134W	TTL	LC05	Digital	FL
82	JANM38510/05601BFA	40-17B	CMS	LC11	Digital	FP	192	JANM38510/07010BFB	54S134W	TTL	LC05	Digital	FL
83	JANM38510/05601CEA	40-17B	CMS	LC11	Digital	DL	193	JANM38510/07010CEA	74S134N	TTL	LC05	Digital	DL
84	JANM38510/05601CEB	40-17B	CMS	LC11	Digital	DL	194	JANM38510/07010CEB	54S134W	TTL	LC05	Digital	DL
85	JANM38510/05601CFA	40-17B	CMS	LC11	Digital	DL	195	JANM38510/07010CFA	54S134W	TTL	LC05	Digital	FL
86	JANM38510/05601CFC	40-17B	CMS	LC11	Digital	FP	196	JANM38510/07010CFB	54S134W	TTL	LC05	Digital	FL
87	JANM38510/05602AFA	40-18B	CMS	LC11	Digital	DL	197	JANM38510/07101BAB	54S74W	TTL	LC04	Digital	FP
88	JANM38510/05602AFA	40-18B	CMS	LC11	Digital	FP	198	JANM38510/07101BCA	74-74N	TTL	LC04	Digital	DL
89	JANM38510/05602BEA	40-18B	CMS	LC11	Digital	DL	199	JANM38510/07101BCB	74-74N	TTL	LC04	Digital	DL
90	JANM38510/05602BEB	40-18B	CMS	LC11	Digital	DL	200	JANM38510/07101BDA	54S74W	TTL	LC04	Digital	FP
91	JANM38510/05602BFA	40-18B	CMS	LC11	Digital	FP	2						

TYPE TO FUNCTIONAL EQUIVALENCE NUMBER

IN ORDER OF: (1) MFG TYPE NUMBER

LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GPE	LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GPE
1	JANM38510/07401CCA	74-50N	TTL	LC05	Digital	DL	111	JANM38510/17003BCC	40-73B	CMS	LC05	Digital	DL
2	JANM38510/07401CCB	74-50N	TTL	LC05	Digital	DL	112	JANM38510/17103BCA	40-75B	CMS	LC05	Digital	DL
3	JANM38510/07401CDA	54551W	TTL	LC05	Digital	DL	113	JANM38510/17103BCC	40-75B	CMS	LC05	Digital	DL
4	JANM38510/07401CDB	54551W	TTL	LC05	Digital	DL	114	JANM38510/17103CCA	40-75B	CMS	LC05	Digital	DL
5	JANM38510/07402BCA	74564N	TTL	LC05	Digital	DL	115	JANM38510/17103CCC	40-75B	CMS	LC05	Digital	DL
6	JANM38510/07402BCB	74564N	TTL	LC05	Digital	DL	116	JANM38510/17202BCA	40-86B	CMS	LC05	Digital	DL
7	JANM38510/07402BDA	54564W	TTL	LC05	Digital	DL	117	JANM38510/17202BCC	40-86B	CMS	LC05	Digital	DL
8	JANM38510/07402BDB	54564W	TTL	LC05	Digital	DL	118	JANM38510/17202CCA	40-86B	CMS	LC05	Digital	DL
9	JANM38510/07402CCA	74564N	TTL	LC05	Digital	DL	119	JANM38510/17202CCC	40-86B	CMS	LC05	Digital	DL
10	JANM38510/07402CCB	74564N	TTL	LC05	Digital	DL	120	JANM38510/30001BAA	54S00W	TTL	LC05	Digital	FL
11	JANM38510/07402CDA	54564W	TTL	LC05	Digital	DL	121	JANM38510/30001BAB	54S00W	TTL	LC05	Digital	FL
12	JANM38510/07402CDB	54564W	TTL	LC05	Digital	DL	122	JANM38510/30001BAC	54S00W	TTL	LC05	Digital	FL
13	JANM38510/07501BCA	74-86N	TTL	LC05	Digital	DL	123	JANM38510/30001BCA	74-00N	TTL	LC05	Digital	DL
14	JANM38510/07501BCB	74-86N	TTL	LC05	Digital	DL	124	JANM38510/30001BCC	74-00N	TTL	LC05	Digital	DL
15	JANM38510/07501BDA	54-86W	TTL	LC05	Digital	DL	125	JANM38510/30001BDA	54S00W	TTL	LC05	Digital	FL
16	JANM38510/07501BDB	54-86W	TTL	LC05	Digital	DL	126	JANM38510/30001BDB	54S00W	TTL	LC05	Digital	FL
17	JANM38510/07501CCA	74-86N	TTL	LC05	Digital	DL	127	JANM38510/30001BDC	54S00W	TTL	LC05	Digital	FL
18	JANM38510/07501CCB	74-86N	TTL	LC05	Digital	DL	128	JANM38510/30001CAA	54S00W	TTL	LC05	Digital	FL
19	JANM38510/07501CDA	54-86W	TTL	LC05	Digital	DL	129	JANM38510/30001CAB	54S00W	TTL	LC05	Digital	FL
20	JANM38510/07501CDB	54-86W	TTL	LC05	Digital	DL	130	JANM38510/30001CAC	54S00W	TTL	LC05	Digital	FL
21	JANM38510/07801CBA	74-181	TTL	LC18	Digital	DL	131	JANM38510/30001CCA	74-00N	TTL	LC05	Digital	DL
22	JANM38510/07801CBB	74-181	TTL	LC18	Digital	DL	132	JANM38510/30001CCC	74-00N	TTL	LC05	Digital	DL
23	JANM38510/08001BAB	54511W	TTL	LC05	Digital	DL	133	JANM38510/30001CDA	74-03N	TTL	LC05	Digital	DL
24	JANM38510/08001BAC	54511W	TTL	LC05	Digital	DL	134	JANM38510/30001CDB	54S00W	TTL	LC05	Digital	FL
25	JANM38510/08001BCA	74-11N	TTL	LC05	Digital	DL	135	JANM38510/30001CDD	54S00W	TTL	LC05	Digital	FL
26	JANM38510/08001BCB	74-11N	TTL	LC05	Digital	DL	136	JANM38510/30002BAA	54S03W	TTL	LC05	Digital	FL
27	JANM38510/08001BDA	54511W	TTL	LC05	Digital	DL	137	JANM38510/30002BAB	54S03W	TTL	LC05	Digital	FL
28	JANM38510/08001BDB	54511W	TTL	LC05	Digital	DL	138	JANM38510/30002BAC	54S03W	TTL	LC05	Digital	FL
29	JANM38510/08001CAB	54511W	TTL	LC05	Digital	DL	139	JANM38510/30002BCA	74-03N	TTL	LC05	Digital	DL
30	JANM38510/08001CAC	54511W	TTL	LC05	Digital	DL	140	JANM38510/30002BCB	74-03N	TTL	LC05	Digital	DL
31	JANM38510/08001CCA	74-11N	TTL	LC05	Digital	DL	141	JANM38510/30002BCC	74-03N	TTL	LC05	Digital	DL
32	JANM38510/08001CCB	74-11N	TTL	LC05	Digital	DL	142	JANM38510/30002BDA	54S03W	TTL	LC05	Digital	FL
33	JANM38510/08001CDA	54511W	TTL	LC05	Digital	DL	143	JANM38510/30002BDB	54S03W	TTL	LC05	Digital	FL
34	JANM38510/08001CDB	54511W	TTL	LC05	Digital	DL	144	JANM38510/30002BDC	54S03W	TTL	LC05	Digital	FL
35	JANM38510/08002BCA	74H15N	TTL	LC05	Digital	DL	145	JANM38510/30002CAB	54S03W	TTL	LC05	Digital	FL
36	JANM38510/08002BCB	74H15N	TTL	LC05	Digital	DL	146	JANM38510/30002CAC	54S03W	TTL	LC05	Digital	FL
37	JANM38510/08002BDA	54H15W	TTL	LC05	Digital	DL	147	JANM38510/30002CCA	74-03N	TTL	LC05	Digital	DL
38	JANM38510/08002BDB	54H15W	TTL	LC05	Digital	DL	148	JANM38510/30002CCB	74-03N	TTL	LC05	Digital	DL
39	JANM38510/08002CCA	74H15N	TTL	LC05	Digital	DL	149	JANM38510/30002CCC	74-03N	TTL	LC05	Digital	DL
40	JANM38510/08002CCB	74H15N	TTL	LC05	Digital	DL	150	JANM38510/30002CDA	54S03W	TTL	LC05	Digital	FL
41	JANM38510/08002CDA	54H15W	TTL	LC05	Digital	DL	151	JANM38510/30002CDC	54S03W	TTL	LC05	Digital	FL
42	JANM38510/08002CDB	54H15W	TTL	LC05	Digital	DL	152	JANM38510/30005BAA	54S10W	TTL	LC05	Digital	FL
43	JANM38510/08003BAB	54S08W	TTL	LC05	Digital	DL	153	JANM38510/30005BAB	54S10W	TTL	LC05	Digital	FL
44	JANM38510/08003BAC	54S08W	TTL	LC05	Digital	DL	154	JANM38510/30005BAC	54S10W	TTL	LC05	Digital	FL
45	JANM38510/08003BCA	74-08N	TTL	LC05	Digital	DL	155	JANM38510/30005BACA	74-10N	TTL	LC05	Digital	DL
46	JANM38510/08003BCB	74-08N	TTL	LC05	Digital	DL	156	JANM38510/30005BCCB	74-10N	TTL	LC05	Digital	DL
47	JANM38510/08003BDA	54S08W	TTL	LC05	Digital	DL	157	JANM38510/30005BCCC	74-10N	TTL	LC05	Digital	DL
48	JANM38510/08003BDB	54S08W	TTL	LC05	Digital	DL	158	JANM38510/30005BDD	54S10W	TTL	LC05	Digital	FL
49	JANM38510/08003CAB	54S08W	TTL	LC05	Digital	DL	159	JANM38510/30005BDB	54S10W	TTL	LC05	Digital	FL
50	JANM38510/08003CAC	54S08W	TTL	LC05	Digital	DL	160	JANM38510/30005CAA	54S10W	TTL	LC05	Digital	FL
51	JANM38510/08003CCA	74-08N	TTL	LC05	Digital	DL	161	JANM38510/30005CAB	54S10W	TTL	LC05	Digital	FL
52	JANM38510/08003CCB	74-08N	TTL	LC05	Digital	DL	162	JANM38510/30005CAC	54S10W	TTL	LC05	Digital	FL
53	JANM38510/08003CDA	54S08W	TTL	LC05	Digital	DL	163	JANM38510/30005CCA	74-10N	TTL	LC05	Digital	DL
54	JANM38510/08003CDB	54S08W	TTL	LC05	Digital	DL	164	JANM38510/30005CCB	74-10N	TTL	LC05	Digital	DL
55	JANM38510/08201BEA	74-85N	TTL	LC17	Digital	DL	165	JANM38510/30005CCC	74-10N	TTL	LC05	Digital	DL
56	JANM38510/08201BEB	74-85N	TTL	LC17	Digital	DL	166	JANM38510/30005CDA	54S10W	TTL	LC05	Digital	FL
57	JANM38510/08201CEA	74-85N	TTL	LC17	Digital	DL	167	JANM38510/30005CDB	54S10W	TTL	LC05	Digital	FL
58	JANM38510/08201CEB	74-85N	TTL	LC17	Digital	DL	168	JANM38510/30006BAA	54-12W	TTL	LC05	Digital	FL
59	JANM38510/15001BEA	74-85N	TTL	LC17	Digital	DL	169	JANM38510/30006BAB	54-12W	TTL	LC05	Digital	FL
60	JANM38510/15001BEB	74-85N	TTL	LC17	Digital	DL	170	JANM38510/30006BAC	54-12W	TTL	LC05	Digital	FL
61	JANM38510/15001BFA	54-85W	TTL	LC17	Digital	DL	171	JANM38510/30006BCA	74-12N	TTL	LC05	Digital	DL
62	JANM38510/15001BFB	54-85W	TTL	LC17	Digital	DL	172	JANM38510/30006BCB	74-12N	TTL	LC05	Digital	DL
63	JANM38510/15001CEA	74-85N	TTL	LC17	Digital	DL	173	JANM38510/30006BCC	74-12N	TTL	LC05	Digital	DL
64	JANM38510/15001CEB	74-85N	TTL	LC17	Digital	DL	174	JANM38510/30006BDA	54-12W	TTL	LC05	Digital	FL
65	JANM38510/15001CFA	54-85W	TTL	LC17	Digital	DL	175	JANM38510/30006BDC	54-12W	TTL	LC05	Digital	FL
66	JANM38510/15001CFB	54-85W	TTL	LC17	Digital	DL	176	JANM38510/30006CAA	54-12W	TTL	LC05	Digital	FL
67	JANM38510/15202BEA	74-156N	TTL	LC06	Digital	DL	177	JANM38510/30006CAB	54-12W	TTL	LC05	Digital	FL
68	JANM38510/15202BEB	74-156N	TTL	LC06	Digital	DL	178	JANM38510/30006CAC	54-12W	TTL	LC05	Digital	FL
69	JANM38510/15202BFA	54-155W	TTL	LC06	Digital	DL	179	JANM38510/30006CCA	74-12N	TTL	LC05	Digital	DL
70	JANM38510/15202BFB	54-155W	TTL	LC06	Digital	DL	180	JANM38510/30006CCB	74-12N	TTL	LC05	Digital	DL
71	JANM38510/15202CEA	74-156N	TTL	LC06	Digital	DL	181	JANM38510/30006CCC	74-12N	TTL	LC05	Digital	DL
72	JANM38510/15202CEB	74-156N	TTL	LC06	Digital	DL	182	JANM38510/30006CDA	54-12W	TTL	LC05	Digital	FL
73	JANM38510/15202CFA	54-155W	TTL	LC06	Digital	DL	183	JANM38510/30006CDC	54-12W	TTL	LC05	Digital	FL
74	JANM38510/15202CFB	54-155W	TTL	LC06	Digital	DL	184	JANM38510/30007BAA	54-13W	TTL	LC05	Digital	FL
75	JANM38510/15203BEA	74-156N	TTL	LC06	Digital	DL	185	JANM38510/30007BAB	54-13W	TTL	LC05	Digital	FL
76	JANM38510/15203BEB	74-156N	TTL	LC06	Digital	DL	186	JANM38510/30007BAC	54-13W	TTL	LC05	Digital	FL
77	JANM38510/15203BFA	54-156W	TTL	LC06	Digital	DL	187	JANM38510/30007BCA	74-13N	TTL	LC05	Digital	DL
78	JANM38510/15203BFB	54-156W	TTL	LC06	Digital	DL	188	JANM38510/30007BCC	74-13N	TTL	LC05	Digital	DL
79	JANM38510/15203CEA	74-156N	TTL	LC06	Digital	DL	189	JANM38510/30007BDA	54-13W	TTL	LC05	Digital	FL
80	JANM38510/15203CEB	74-156N	TTL	LC06	Digital	DL	190	JANM38510/30007BDB	54-13W	TTL	LC05	Digital	FL
81	JANM38510/15203CFA	54-156W	TTL	LC06	Digital	DL	191	JANM38510/30007BDC	54-13W	TTL	LC05	Digital	FL
82	JANM38510/15203CFB	54-156W	TTL	LC06	Digital	DL	192	JANM38510/30007CAA	54-13W	TTL	LC05	Digital	FL
83	JANM38510/15501BCA	74-08N	TTL	LC05	Digital	DL	193	JANM38510/30007CAB	54-13W	TTL	LC05	Digital	FL
84	JANM38510/15501BCB	74-08N	TTL	LC05	Digital	DL	194	JANM38510/30007CAC	54-13W	TTL	LC05	Digital	FL
85	JANM38510/15501CCA	74-08N	TTL	LC05	Digital	DL	195	JANM38510/30007CCA	74-13N	TTL	LC05	Digital	DL
86	JANM38510/15501CCB	74-08N	TTL	LC05	Digital	DL	196	JANM38510/30007CCC	74-13N	TTL	LC05	Digital	DL
87	JANM38510/15502BCA	74-11N	TTL	LC05	Digital	DL	197	JANM38510/30007CDB	54-13W	TTL	LC05	Digital	FL
88	JANM38510/15502BCB	74-11N	TTL	LC05	Digital	DL	198	JANM38510/30007CDB	54-13W	TTL	LC05	Digital	FL
89	JANM38510/15502CCA	74-11N	TTL	LC05	Digital	DL	199	JANM38510/30007CDC	54-13W	TTL	LC05	Digital	FL
90	JANM38510/15502CCB	74-11N	TTL	LC05	Digital	DL	200	JANM38510/30008BAA	54-22W	TTL	LC05	Digital	FL
91	JANM38510/15503BCA	74H21N	TTL	LC05	Digital								

TYPE TO FUNCTIONAL EQUIVALENCE NUMBER

IN ORDER OF: (1) MFG TYPE NUMBER

LINE No.	1	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GP E	LINE No.	1	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GP E
1		JANM38510/30009BCC	74-30N	TTL	LC05	Digital	DL	111		JANM38510/30303BDA	54LS266W	TTL	LC05	Digital	FL
2		JANM38510/30009BDA	54S30W	TTL	LC05	Digital	FL	112		JANM38510/30303BDB	54LS266W	TTL	LC05	Digital	FL
3		JANM38510/30009BDB	54S30W	TTL	LC05	Digital	FL	113		JANM38510/30303CCA	74LS266N	TTL	LC05	Digital	DL
4		JANM38510/30009BDC	54S30W	TTL	LC05	Digital	FL	114		JANM38510/30303CCB	74LS266N	TTL	LC05	Digital	DL
5		JANM38510/30009CAA	54S30W	TTL	LC05	Digital	FL	115		JANM38510/30303CCC	74LS266N	TTL	LC05	Digital	DL
6		JANM38510/30009CAB	54S30W	TTL	LC05	Digital	FL	116		JANM38510/30303CDA	54LS266W	TTL	LC05	Digital	FL
7		JANM38510/30009CAC	54S30W	TTL	LC05	Digital	FL	117		JANM38510/30303CDB	54LS266W	TTL	LC05	Digital	FL
8		JANM38510/30009CCA	74-30N	TTL	LC05	Digital	DL	118		JANM38510/30401BAA	54LS51W	TTL	LC05	Digital	FL
9		JANM38510/30009CCB	74-30N	TTL	LC05	Digital	DL	119		JANM38510/30401BAB	54LS51W	TTL	LC05	Digital	FL
10		JANM38510/30009CCC	74-30N	TTL	LC05	Digital	DL	120		JANM38510/30401BAC	54LS51W	TTL	LC05	Digital	FL
11		JANM38510/30009CDA	54S30W	TTL	LC05	Digital	FL	121		JANM38510/30401BCA	74LS1N	TTL	LC05	Digital	DL
12		JANM38510/30009CDB	54S30W	TTL	LC05	Digital	FL	122		JANM38510/30401BCB	74LS1N	TTL	LC05	Digital	DL
13		JANM38510/30009CDC	54S30W	TTL	LC05	Digital	FL	123		JANM38510/30401BCC	74LS1N	TTL	LC05	Digital	DL
14		JANM38510/30101BCA	74-73N	TTL	LC04	Digital	DL	124		JANM38510/30401BDA	54LS51W	TTL	LC05	Digital	FL
15		JANM38510/30101BCB	74-73N	TTL	LC04	Digital	DL	125		JANM38510/30401BDB	54LS51W	TTL	LC05	Digital	FL
16		JANM38510/30101BDA	54-73W	TTL	LC04	Digital	FP	126		JANM38510/30401BDC	54LS51W	TTL	LC05	Digital	FL
17		JANM38510/30101CCA	74-73N	TTL	LC04	Digital	DL	127		JANM38510/30401CAA	54LS51W	TTL	LC05	Digital	FL
18		JANM38510/30101CCB	74-73N	TTL	LC04	Digital	DL	128		JANM38510/30401CAB	54LS51W	TTL	LC05	Digital	FL
19		JANM38510/30101CDA	54-73W	TTL	LC04	Digital	FP	129		JANM38510/30401CAC	54LS51W	TTL	LC05	Digital	FL
20		JANM38510/30102BAA	54S74W	TTL	LC04	Digital	FP	130		JANM38510/30401CCA	74LS1N	TTL	LC05	Digital	DL
21		JANM38510/30102BAB	54S74W	TTL	LC04	Digital	FP	131		JANM38510/30401CCB	74LS1N	TTL	LC05	Digital	DL
22		JANM38510/30102BAC	54S74W	TTL	LC04	Digital	FP	132		JANM38510/30401CCC	74LS1N	TTL	LC05	Digital	DL
23		JANM38510/30102BCA	74-74N	TTL	LC04	Digital	DL	133		JANM38510/30401CDA	54LS51W	TTL	LC05	Digital	FL
24		JANM38510/30102BCB	74-74N	TTL	LC04	Digital	DL	134		JANM38510/30401CDB	54LS51W	TTL	LC05	Digital	FL
25		JANM38510/30102BDA	54S74W	TTL	LC04	Digital	FP	135		JANM38510/30401CDC	54LS51W	TTL	LC05	Digital	FL
26		JANM38510/30102BDB	54S74W	TTL	LC04	Digital	FP	136		JANM38510/30402BAA	54LS54W	TTL	LC05	Digital	FL
27		JANM38510/30102CAA	54S74W	TTL	LC04	Digital	FP	137		JANM38510/30402BAB	54LS54W	TTL	LC05	Digital	FL
28		JANM38510/30102CAB	54S74W	TTL	LC04	Digital	FP	138		JANM38510/30402BAC	54LS54W	TTL	LC05	Digital	FL
29		JANM38510/30102CAC	54S74W	TTL	LC04	Digital	FP	139		JANM38510/30402BCA	74LS4N	TTL	LC05	Digital	DL
30		JANM38510/30102CCA	74-74N	TTL	LC04	Digital	DL	140		JANM38510/30402BCB	74LS4N	TTL	LC05	Digital	DL
31		JANM38510/30102CCB	74-74N	TTL	LC04	Digital	DL	141		JANM38510/30402BCC	74LS4N	TTL	LC05	Digital	DL
32		JANM38510/30102CDA	54S74W	TTL	LC04	Digital	FP	142		JANM38510/30402BDA	54LS54W	TTL	LC05	Digital	FL
33		JANM38510/30103BEA	74LS112N	TTL	LC04	Digital	DL	143		JANM38510/30402BDB	54LS54W	TTL	LC05	Digital	FL
34		JANM38510/30103BEB	74LS112N	TTL	LC04	Digital	DL	144		JANM38510/30402BDC	54LS54W	TTL	LC05	Digital	FL
35		JANM38510/30103BFA	54S112W	TTL	LC04	Digital	FP	145		JANM38510/30402CAA	54LS54W	TTL	LC05	Digital	FL
36		JANM38510/30103BFB	54S112W	TTL	LC04	Digital	FP	146		JANM38510/30402CAB	54LS54W	TTL	LC05	Digital	FL
37		JANM38510/30103CEA	74LS112N	TTL	LC04	Digital	DL	147		JANM38510/30402CAC	54LS54W	TTL	LC05	Digital	FL
38		JANM38510/30103CEB	74LS112N	TTL	LC04	Digital	DL	148		JANM38510/30402CCA	74LS4N	TTL	LC05	Digital	DL
39		JANM38510/30103CFA	54S112W	TTL	LC04	Digital	FP	149		JANM38510/30402CCB	74LS4N	TTL	LC05	Digital	DL
40		JANM38510/30104BAB	54S113W	TTL	LC04	Digital	FP	150		JANM38510/30402CCC	74LS4N	TTL	LC05	Digital	DL
41		JANM38510/30104BAC	54S113W	TTL	LC04	Digital	FP	151		JANM38510/30402CDA	54LS54W	TTL	LC05	Digital	FL
42		JANM38510/30104BCA	74LS113N	TTL	LC04	Digital	DL	152		JANM38510/30402CDB	54LS54W	TTL	LC05	Digital	FL
43		JANM38510/30104BCB	74LS113N	TTL	LC04	Digital	DL	153		JANM38510/30402CDC	54LS54W	TTL	LC05	Digital	FL
44		JANM38510/30104BDA	54S113W	TTL	LC04	Digital	FP	154		JANM38510/30501BAA	54-32W	TTL	LC05	Digital	FL
45		JANM38510/30104BDB	54S113W	TTL	LC04	Digital	FP	155		JANM38510/30501BAB	54-32W	TTL	LC05	Digital	FL
46		JANM38510/30104CAB	54S113W	TTL	LC04	Digital	FP	156		JANM38510/30501BAC	54-32W	TTL	LC05	Digital	FL
47		JANM38510/30104CAC	54S113W	TTL	LC04	Digital	FP	157		JANM38510/30501BCA	74-32N	TTL	LC05	Digital	DL
48		JANM38510/30104CCA	74LS113N	TTL	LC04	Digital	DL	158		JANM38510/30501BCB	74-32N	TTL	LC05	Digital	DL
49		JANM38510/30104CCB	74LS113N	TTL	LC04	Digital	DL	159		JANM38510/30501BCC	74-32N	TTL	LC05	Digital	DL
50		JANM38510/30104CDA	54S113W	TTL	LC04	Digital	FP	160		JANM38510/30501BDA	54-32W	TTL	LC05	Digital	FL
51		JANM38510/30105BCA	74LS114N	TTL	LC04	Digital	DL	161		JANM38510/30501BDB	54-32W	TTL	LC05	Digital	FL
52		JANM38510/30105BCB	74LS114N	TTL	LC04	Digital	DL	162		JANM38510/30501BDC	54-32W	TTL	LC05	Digital	FL
53		JANM38510/30105BDA	54S114W	TTL	LC04	Digital	FP	163		JANM38510/30501CAA	54-32W	TTL	LC05	Digital	FL
54		JANM38510/30105CCA	74LS114N	TTL	LC04	Digital	DL	164		JANM38510/30501CAB	54-32W	TTL	LC05	Digital	FL
55		JANM38510/30105CCB	74LS114N	TTL	LC04	Digital	DL	165		JANM38510/30501CAC	54-32W	TTL	LC05	Digital	FL
56		JANM38510/30105CDA	54S114W	TTL	LC04	Digital	FP	166		JANM38510/30501CCA	74-32N	TTL	LC05	Digital	DL
57		JANM38510/30108BCA	74-107N	TTL	LC04	Digital	DL	167		JANM38510/30501CCB	74-32N	TTL	LC05	Digital	DL
58		JANM38510/30108BCB	74-107N	TTL	LC04	Digital	DL	168		JANM38510/30501CCC	74-32N	TTL	LC05	Digital	DL
59		JANM38510/30108BDA	54-107F	TTL	LC04	Digital	FP	169		JANM38510/30501CDA	54-32W	TTL	LC05	Digital	FL
60		JANM38510/30108BDB	54-107F	TTL	LC04	Digital	FP	170		JANM38510/30501CDB	54-32W	TTL	LC05	Digital	FL
61		JANM38510/30108CCA	74-107N	TTL	LC04	Digital	DL	171		JANM38510/30501CDC	54-32W	TTL	LC05	Digital	FL
62		JANM38510/30108CCB	74-107N	TTL	LC04	Digital	DL	172		JANM38510/30502BAA	54-86W	TTL	LC05	Digital	FL
63		JANM38510/30108CDA	54-107F	TTL	LC04	Digital	FP	173		JANM38510/30502BAB	54-86W	TTL	LC05	Digital	FL
64		JANM38510/30109BEA	74-109N	TTL	LC04	Digital	DL	174		JANM38510/30502BAC	54-86W	TTL	LC05	Digital	FL
65		JANM38510/30109BEB	74-109N	TTL	LC04	Digital	DL	175		JANM38510/30502BCA	74-86N	TTL	LC05	Digital	DL
66		JANM38510/30109BFA	54-109W	TTL	LC04	Digital	FP	176		JANM38510/30502BCB	74-86N	TTL	LC05	Digital	DL
67		JANM38510/30109BFB	54-109W	TTL	LC04	Digital	FP	177		JANM38510/30502BCC	74-86N	TTL	LC05	Digital	DL
68		JANM38510/30109CEA	74-109N	TTL	LC04	Digital	FP	178		JANM38510/30502BDA	54-86W	TTL	LC05	Digital	FL
69		JANM38510/30109CFA	54-109W	TTL	LC04	Digital	FP	179		JANM38510/30502BDB	54-86W	TTL	LC05	Digital	FL
70		JANM38510/30110BEA	74LS76N	TTL	LC04	Digital	DL	180		JANM38510/30502BDC	54-86W	TTL	LC05	Digital	FL
71		JANM38510/30110BEB	74LS76N	TTL	LC04	Digital	DL	181		JANM38510/30502CAA	54-86W	TTL	LC05	Digital	FL
72		JANM38510/30110BFA	54LS76W	TTL	LC04	Digital	FP	182		JANM38510/30502CAB	54-86W	TTL	LC05	Digital	FL
73		JANM38510/30110CEA	74LS76N	TTL	LC04	Digital	DL	183		JANM38510/30502CAC	54-86W	TTL	LC05	Digital	FL
74		JANM38510/30110CEB	74LS76N	TTL	LC04	Digital	DL	184		JANM38510/30502CCA	74-86N	TTL	LC05	Digital	DL
75		JANM38510/30110CFA	54LS76W	TTL	LC04	Digital	FP	185		JANM38510/30502CCB	74-86N	TTL	LC05	Digital	DL
76		JANM38510/30301BAA	54S02W	TTL	LC05	Digital	FL	186		JANM38510/30502CCC	74-86N	TTL	LC05	Digital	DL
77		JANM38510/30301BAB	54S02W	TTL	LC05	Digital	FL	187		JANM38510/30502CDA	54-86W	TTL	LC05	Digital	FL
78		JANM38510/30301BAC	54S02W	TTL	LC05	Digital	FL	188		JANM38510/30502CDB	54-86W	TTL	LC05	Digital	FL
79		JANM38510/30301BCA	74-02N	TTL	LC05	Digital	DL	189		JANM38510/30502CDC	54-86W	TTL	LC05	Digital	FL
80		JANM38510/30301BCB	74-02N	TTL	LC05	Digital	DL	190		JANM38510/30703BEA	74-42N	TTL	LC06	Digital	DL
81		JANM38510/30301BCC	74-02N	TTL	LC05	Digital	DL	191		JANM38510/30703BEB	74-42N	TTL	LC06	Digital	DL
82		JANM38510/30301BDA	54S02W	TTL	LC05	Digital	FL	192		JANM38510/30703BFA	54LS42W	TTL	LC06	Digital	FL
83		JANM38510/30301BDB	54S02W	TTL	LC05	Digital	FL	193		JANM38510/30703BFB	54LS42W	TTL	LC06	Digital	FL
84		JANM38510/30301CAA	54S02W	TTL	LC05	Digital	FL	194		JANM38510/30703CEB	74-42N	TTL	LC06	Digital	DL
85		JANM38510/303													

TYPE TO FUNCTIONAL EQUIVALENCE NUMBER

IN ORDER OF: (1) MFG TYPE NUMBER

LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GP E	LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GP E
1	JANM38510/31002BCC	74H15N	TTL	LC05	Digital	DL	111#	M40161BP	40H161	CMS	LC11	Digital	DL
2	JANM38510/31002BDA	54H15W	TTL	LC05	Digital	FL	112#	M40162BP	40H162	CMS	LC11	Digital	DL
3	JANM38510/31002BDB	54H15W	TTL	LC05	Digital	FL	113#	M40163BP	40H163	CMS	LC11	Digital	DL
4	JANM38510/31002BDC	54H15W	TTL	LC05	Digital	FL	114#	M40174BP	54-174	CMS	LC04	Digital	DL
5	JANM38510/31002CAA	54H15W	TTL	LC05	Digital	FL	115#	M53200P	74-00N	TTL	LC05	Digital	DL
6	JANM38510/31002CAB	54H15W	TTL	LC05	Digital	FL	116#	M53201P	74-01N	TTL	LC05	Digital	DL
7	JANM38510/31002CAC	54H15W	TTL	LC05	Digital	FL	117#	M53202P	74-02N	TTL	LC05	Digital	DL
8	JANM38510/31002CCA	74H15N	TTL	LC05	Digital	DL	118#	M53203P	74-03N	TTL	LC05	Digital	DL
9	JANM38510/31002CCB	74H15N	TTL	LC05	Digital	DL	119#	M53208P	74-08N	TTL	LC05	Digital	DL
10	JANM38510/31002CCC	74H15N	TTL	LC05	Digital	DL	120#	M53209P	74-09N	TTL	LC05	Digital	DL
11	JANM38510/31002CDA	54H15W	TTL	LC05	Digital	FL	121#	M53210P	74-10N	TTL	LC05	Digital	DL
12	JANM38510/31002CDB	54H15W	TTL	LC05	Digital	FL	122#	M53220P	74-13N	TTL	LC05	Digital	DL
13	JANM38510/31002CDC	54H15W	TTL	LC05	Digital	FL	123#	M53225P	74-25N	TTL	LC05	Digital	DL
14	JANM38510/31003BAA	54LS21W	TTL	LC05	Digital	FL	124#	M53227P	74-27N	TTL	LC05	Digital	DL
15	JANM38510/31003BAB	54LS21W	TTL	LC05	Digital	FL	125#	M53230P	74-30N	TTL	LC05	Digital	DL
16	JANM38510/31003BAC	54LS21W	TTL	LC05	Digital	FL	126#	M53237P	74-00N	TTL	LC05	Digital	DL
17	JANM38510/31003BCA	74H21N	TTL	LC05	Digital	DL	127#	M53238P	74-03N	TTL	LC05	Digital	DL
18	JANM38510/31003BCC	74H21N	TTL	LC05	Digital	DL	128#	M53240P	74-13N	TTL	LC05	Digital	DL
19	JANM38510/31003BDA	54LS21W	TTL	LC05	Digital	FL	129#	M53241P	74-41N	TTL	LC06	Digital	DL
20	JANM38510/31003BDB	54LS21W	TTL	LC05	Digital	FL	130#	M53242P	74-42N	TTL	LC06	Digital	DL
21	JANM38510/31003BDC	54LS21W	TTL	LC05	Digital	FL	131#	M53243P	74-43N	TTL	LC06	Digital	DL
22	JANM38510/31003CAA	54LS21W	TTL	LC05	Digital	FL	132#	M53244P	74-44N	TTL	LC06	Digital	DL
23	JANM38510/31003CAB	54LS21W	TTL	LC05	Digital	FL	133#	M53245P	74-45N	TTL	LC06	Digital	DL
24	JANM38510/31003CAC	54LS21W	TTL	LC05	Digital	FL	134#	M53250P	74-50N	TTL	LC05	Digital	DL
25	JANM38510/31003CCA	74H21N	TTL	LC05	Digital	DL	135#	M53253P	74-53N	TTL	LC05	Digital	DL
26	JANM38510/31003CCC	74H21N	TTL	LC05	Digital	DL	136#	M53260P	74-60N	TTL	LC05	Digital	DL
27	JANM38510/31003CDA	54LS21W	TTL	LC05	Digital	FL	137#	M53270P	74-70N	TTL	LC04	Digital	DL
28	JANM38510/31003CDB	54LS21W	TTL	LC05	Digital	FL	138#	M53272P	74L71N	TTL	LC04	Digital	DL
29	JANM38510/31003CDC	54LS21W	TTL	LC05	Digital	FL	139#	M53273P	74-73N	TTL	LC04	Digital	DL
30	JANM38510/31004BAA	54S08W	TTL	LC05	Digital	FL	140#	M53274P	74-74N	TTL	LC04	Digital	DL
31	JANM38510/31004BAB	54S08W	TTL	LC05	Digital	FL	141#	M53275P	74-75N	TTL	LC26	Digital	DL
32	JANM38510/31004BAC	54S08W	TTL	LC05	Digital	FL	142#	M53276P	74L576N	TTL	LC04	Digital	DL
33	JANM38510/31004BCA	74-08N	TTL	LC05	Digital	DL	143#	M53285P	74-85N	TTL	LC17	Digital	DL
34	JANM38510/31004BCC	74-08N	TTL	LC05	Digital	DL	144#	M53286P	74-86N	TTL	LC05	Digital	DL
35	JANM38510/31004BDA	54S08W	TTL	LC05	Digital	FL	145#	M53307P	74-107	TTL	LC04	Digital	DL
36	JANM38510/31004BDB	54S08W	TTL	LC05	Digital	FL	146#	M53321P	74-121	TTL	LC10	Digital	DL
37	JANM38510/31004BDC	54S08W	TTL	LC05	Digital	FL	147#	M53322P	74-122	TTL	LC10	Digital	DL
38	JANM38510/31004CAA	54S08W	TTL	LC05	Digital	FL	148#	M53323P	54-122	TTL	LC10	Digital	DL
39	JANM38510/31004CAB	54S08W	TTL	LC05	Digital	FL	149#	M53345P	74-45N	TTL	LC06	Digital	DL
40	JANM38510/31004CAC	54S08W	TTL	LC05	Digital	FL	150#	M53354P	74-154N	TTL	LC06	Digital	DL
41	JANM38510/31004CCA	74-08N	TTL	LC05	Digital	DL	151#	M53355P	74-155N	TTL	LC06	Digital	DL
42	JANM38510/31004CCC	74-08N	TTL	LC05	Digital	DL	152#	M53356P	74-156N	TTL	LC06	Digital	DL
43	JANM38510/31004CDA	54S08W	TTL	LC05	Digital	FL	153#	M53360P	74-160N	TTL	LC11	Digital	DL
44	JANM38510/31004CDB	54S08W	TTL	LC05	Digital	FL	154#	M53361P	74-161N	TTL	LC11	Digital	DL
45	JANM38510/31004CDC	54S08W	TTL	LC05	Digital	FL	155#	M53362P	74-162N	TTL	LC11	Digital	DL
46	JANM38510/31101BEA	74-85N	TTL	LC17	Digital	DL	156#	M53363P	74-163N	TTL	LC11	Digital	DL
47	JANM38510/31101BEB	74-85N	TTL	LC17	Digital	DL	157#	M53380P	74-180N	TTL	LC25	Digital	DL
48	JANM38510/31101BEF	54-85W	TTL	LC17	Digital	FL	158#	M53381P	74-181	TTL	LC18	Digital	DL
49	JANM38510/31101CEA	74-85N	TTL	LC17	Digital	DL	159#	M53382P	74-182	TTL	LC19	Digital	DL
50	JANM38510/31101CEB	74-85N	TTL	LC17	Digital	DL	160#	M53390P	74-190N	TTL	LC11	Digital	DL
51	JANM38510/31201BEA	74-83	TTL	LC15	Digital	DL	161#	M53391P	74-190N	TTL	LC11	Digital	DL
52	JANM38510/31201BEB	74-83	TTL	LC15	Digital	DL	162#	M53392P	74-192N	TTL	LC11	Digital	DL
53	JANM38510/31201BEF	54-83	TTL	LC15	Digital	FL	163#	M53393P	74-193N	TTL	LC11	Digital	DL
54	JANM38510/31201BFA	54-83	TTL	LC15	Digital	FL	164#	M54406P	74-006	TTL	LC06	Digital	DL
55	JANM38510/31201CEA	74-83	TTL	LC15	Digital	DL	165#	MB74LS00	74-00N	TTL	LC05	Digital	DL
56	JANM38510/31201CEB	74-83	TTL	LC15	Digital	DL	166#	MB74LS00M	74-00N	TTL	LC05	Digital	DL
57	JANM38510/31201CFA	54-83	TTL	LC15	Digital	FL	167#	MB74LS01	74-01N	TTL	LC05	Digital	DL
58	JANM38510/31201CFB	54-83	TTL	LC15	Digital	FL	168#	MB74LS01M	74-01N	TTL	LC05	Digital	DL
59	JANM38510/31202BEA	74-283	TTL	LC15	Digital	DL	169#	MB74LS02	74-02N	TTL	LC05	Digital	DL
60	JANM38510/31202BEB	74-283	TTL	LC15	Digital	DL	170#	MB74LS02M	74-02N	TTL	LC05	Digital	DL
61	JANM38510/31202BFA	54-283	TTL	LC15	Digital	FL	171#	MB74LS03	74-03N	TTL	LC05	Digital	DL
62	JANM38510/31202BFB	54-283	TTL	LC15	Digital	FL	172#	MB74LS03M	74-03N	TTL	LC05	Digital	DL
63	JANM38510/31202CEA	74-283	TTL	LC15	Digital	DL	173#	MB74LS08	74-08N	TTL	LC05	Digital	DL
64	JANM38510/31202CEB	74-283	TTL	LC15	Digital	DL	174#	MB74LS08M	74-08N	TTL	LC05	Digital	DL
65	JANM38510/31202CFA	54-283	TTL	LC15	Digital	FL	175#	MB74LS09	74-09N	TTL	LC05	Digital	DL
66	JANM38510/31401BEA	74-123	TTL	LC10	Digital	DL	176#	MB74LS09M	74-09N	TTL	LC05	Digital	DL
67	JANM38510/31401BEB	74-123	TTL	LC10	Digital	DL	177#	MB74LS10	74-10N	TTL	LC05	Digital	DL
68	JANM38510/31401BFA	54-123	TTL	LC10	Digital	FL	178#	MB74LS10M	74-10N	TTL	LC05	Digital	DL
69	JANM38510/31401CEA	74-123	TTL	LC10	Digital	DL	179#	MB74LS11	74-11N	TTL	LC05	Digital	DL
70	JANM38510/31401CEB	74-123	TTL	LC10	Digital	DL	180#	MB74LS11M	74-11N	TTL	LC05	Digital	DL
71	JANM38510/31401CFA	54-123	TTL	LC10	Digital	FL	181#	MB74LS12	74-12N	TTL	LC05	Digital	DL
72	JANM38510/31402BEB	74-221	TTL	LC10	Digital	DL	182#	MB74LS12M	74-12N	TTL	LC05	Digital	DL
73	JANM38510/31402CEB	74-221	TTL	LC10	Digital	DL	183#	MB74LS15	74H15N	TTL	LC05	Digital	DL
74	JANM38510/31403BAA	54-122	TTL	LC10	Digital	FL	184#	MB74LS15M	74H15N	TTL	LC05	Digital	DL
75	JANM38510/31403BAB	54-122	TTL	LC10	Digital	FL	185#	MB74LS20	74-13N	TTL	LC05	Digital	DL
76	JANM38510/31403BCA	74-122	TTL	LC10	Digital	DL	186#	MB74LS20M	74-13N	TTL	LC05	Digital	DL
77	JANM38510/31403BCB	74-122	TTL	LC10	Digital	DL	187#	MB74LS21	54LS21W	TTL	LC05	Digital	DL
78	JANM38510/31403CAA	54-122	TTL	LC10	Digital	FL	188#	MB74LS21M	74H21N	TTL	LC05	Digital	DL
79	JANM38510/31403CAB	54-122	TTL	LC10	Digital	FL	189#	MB74LS22	74-22N	TTL	LC05	Digital	DL
80	JANM38510/31403CCA	74-122	TTL	LC10	Digital	DL	190#	MB74LS22M	74-22N	TTL	LC05	Digital	DL
81	JANM38510/31403CCB	74-122	TTL	LC10	Digital	DL	191#	MB74LS26	74-02N	TTL	LC05	Digital	DL
82	JANM38510/31502BCA	74LS93N	TTL	LC11	Digital	DL	192#	MB74LS26M	74-03N	TTL	LC05	Digital	DL
83	JANM38510/31502BCB	74LS93N	TTL	LC11	Digital	DL	193#	MB74LS27	74-27N	TTL	LC05	Digital	DL
84	JANM38510/31502BDA	54LS93	TTL	LC11	Digital	FP	194#	MB74LS27M	74-27N	TTL	LC05	Digital	DL
85	JANM38510/31502CCA	74LS93N	TTL	LC11	Digital	DL	195#	MB74LS28	74-02N	TTL	LC05	Digital	DL
86	JANM38510/31502CCB	74LS93N	TTL	LC11	Digital	DL	196#	MB74LS28M	74-02N	TTL	LC05	Digital	DL
87	JANM38510/31502CDA	54LS93	TTL	LC11	Digital	FP	197#	MB74LS30	74-30N	TTL	LC05	Digital	DL
88	JANM38510/31503BEB	74-160N	TTL	LC11	Digital	DL	198#	MB74LS30M	74-30N	TTL	LC05	Digital	DL
89	JANM38510/31503CEB	74-160N	TTL	LC11	Digital	DL	199#	MB74LS32	74-32N	TTL	LC05	Digital	DL
90	JANM38510/31504BEB	74-161N	TTL	LC11	Digital	DL	200#	MB74LS32M	74-32N	TTL	LC05	Digital	DL
91	JANM38510/31504BFB	54-161W	TTL	LC11	Digital	FP	201#	MB74LS33	74-33N	TTL	LC05	Digital	DL
92	JANM38510/31504CEB	74-161N	TTL	LC11	Digital	DL	202#	MB74LS33M	74-33N	TTL	LC05	Digital	DL
93	JANM38510/31504CFB	54-161W	TTL	LC11	Digital	FP	203#	MB74LS37	74-00N	TTL	LC05	Digital	DL
94	JANM38510/31508BEB	74-193N	TTL	LC11	Digital	DL	204#	MB74LS37M	74-00N	TTL	LC05	Digital	DL
95	JANM38510/31508CEB	74-193N	TTL	LC11	Digital	DL	205#	MB74LS38	74-03N	TTL	LC05	Digital	DL
96	JANM												

TYPE TO FUNCTIONAL EQUIVALENCE NUMBER

IN ORDER OF: (1) MFG TYPE NUMBER

LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GP E	LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GP E
1#	MB74LS76A	74LS76	TTL	LC04	Digital	DL	111#	MB448M	74L85N	TTL	LC17	Digital	DL
2#	MB74LS76AM	74LS76	TTL	LC04	Digital	DL	112#	MB449	74-86N	TTL	LC05	Digital	DL
3#	MB74LS78	74H78	TTL	LC04	Digital	DL	113#	MB449M	74-86N	TTL	LC05	Digital	DL
4#	MB74LS78AM	74H78	TTL	LC04	Digital	DL	114#	MB450	74-160N	TTL	LC11	Digital	DL
5#	MB74LS83A	74-83	TTL	LC15	Digital	DL	115#	MB450M	74-160N	TTL	LC11	Digital	DL
6#	MB74LS83AM	74-83	TTL	LC15	Digital	DL	116#	MB451	74-160N	TTL	LC11	Digital	DL
7#	MB74LS85	74-85N	TTL	LC17	Digital	DL	117#	MB451M	74-160N	TTL	LC11	Digital	DL
8#	MB74LS85M	74-85N	TTL	LC17	Digital	DL	118#	MB456	74-190N	TTL	LC11	Digital	DL
9#	MB74LS86	74-86N	TTL	LC05	Digital	DL	119#	MB456M	74-190N	TTL	LC11	Digital	DL
10#	MB74LS86M	74-86N	TTL	LC05	Digital	DL	120#	MB457	74-190N	TTL	LC11	Digital	DL
11#	MB74LS107	74-107N	TTL	LC04	Digital	DL	121#	MB457M	74-190N	TTL	LC11	Digital	DL
12#	MB74LS107A	74-107	TTL	LC04	Digital	DL	122#	MB458	74-181	TTL	LC18	Digital	DL
13#	MB74LS107AM	74-107	TTL	LC04	Digital	DL	123#	MB458M	74-181	TTL	LC18	Digital	DL
14#	MB74LS107M	74-107N	TTL	LC04	Digital	DL	124#	MB459	74-182	TTL	LC19	Digital	DL
15#	MB74LS109A	74LS109	TTL	LC04	Digital	DL	125#	MB459M	74-182	TTL	LC19	Digital	DL
16#	MB74LS109AM	74LS109	TTL	LC04	Digital	DL	126#	MB601	74-00N	TTL	LC05	Digital	DL
17#	MB74LS112A	74LS112	TTL	LC04	Digital	DL	127#	MB602	74-10N	TTL	LC05	Digital	DL
18#	MB74LS112AM	74LS112	TTL	LC04	Digital	DL	128#	MB603	74-13N	TTL	LC05	Digital	DL
19#	MB74LS113A	74LS113	TTL	LC04	Digital	DL	129#	MB604	74-30N	TTL	LC05	Digital	DL
20#	MB74LS113AM	74LS113	TTL	LC04	Digital	DL	130#	MB605	74-13N	TTL	LC05	Digital	DL
21#	MB74LS114A	74LS114	TTL	LC04	Digital	DL	131#	MB606	74-50N	TTL	LC05	Digital	DL
22#	MB74LS114AM	74LS114	TTL	LC04	Digital	DL	132#	MB607	74-60N	TTL	LC05	Digital	DL
23#	MB74LS122	74-122	TTL	LC10	Digital	DL	133#	MB609	74L71N	TTL	LC04	Digital	DL
24#	MB74LS122M	74-122	TTL	LC10	Digital	DL	134#	MB614	74H21N	TTL	LC05	Digital	DL
25#	MB74LS123	74-123	TTL	LC10	Digital	DL	135#	MB618	74H78N	TTL	LC04	Digital	DL
26#	MB74LS123M	74-123	TTL	LC10	Digital	DL	136#	MB84002B	40-02	CMS	LC05	Digital	DL
27#	MB74LS136	74-136N	TTL	LC05	Digital	DL	137#	MB84002BM	40-02	CMS	LC05	Digital	DL
28#	MB74LS136M	74-136N	TTL	LC05	Digital	DL	138#	MB84023B	40-23B	CMS	LC05	Digital	DL
29#	MB74LS138	74S138N	TTL	LC06	Digital	DL	139#	MB84070B	74L86	CMS	LC05	Digital	DL
30#	MB74LS138M	74S138N	TTL	LC06	Digital	DL	140#	MB84070BM	74L86	CMS	LC05	Digital	DL
31#	MB74LS139	74S139N	TTL	LC06	Digital	DL	141#	MB84072B	40-172	CMS	LC05	Digital	DL
32#	MB74LS139M	74S139N	TTL	LC06	Digital	DL	142#	MB84072BM	40-172	CMS	LC05	Digital	DL
33#	MB74LS145	74-45N	TTL	LC06	Digital	DL	143#	MC54F64J(A)	74S64	TTL	LC05	Digital	DL
34#	MB74LS145M	74-45N	TTL	LC06	Digital	DL	144#	MC54F64N(A)	74S64	TTL	LC05	Digital	DL
35#	MB74LS155	74-155N	TTL	LC06	Digital	DL	145#	MC54F74J(A)	74-74	TTL	LC04	Digital	DL
36#	MB74LS155M	74-155N	TTL	LC06	Digital	DL	146#	MC54F74N(A)	74-74	TTL	LC04	Digital	DL
37#	MB74LS156	74-156N	TTL	LC06	Digital	DL	147#	MC54F86J(A)	74-86	TTL	LC05	Digital	DL
38#	MB74LS156M	74-156N	TTL	LC06	Digital	DL	148#	MC54F86N(A)	74-86	TTL	LC05	Digital	DL
39#	MB74LS160A	74-160N	TTL	LC11	Digital	DL	149#	MC54F109J(A)	74-109	TTL	LC04	Digital	DL
40#	MB74LS160AM	74-160N	TTL	LC11	Digital	DL	150#	MC54F109N(A)	74-109	TTL	LC04	Digital	DL
41#	MB74LS161A	74-161N	TTL	LC11	Digital	DL	151#	MC54F175J(A)	74-175	TTL	LC04	Digital	DL
42#	MB74LS161AM	74-161N	TTL	LC11	Digital	DL	152#	MC54F175N(A)	74-175	TTL	LC04	Digital	DL
43#	MB74LS162A	74-162N	TTL	LC11	Digital	DL	153#	MC54F181J(A)	74-181	TTL	LC18	Digital	DL
44#	MB74LS162AM	74-162N	TTL	LC11	Digital	DL	154#	MC54F181N(A)	74-181	TTL	LC18	Digital	DL
45#	MB74LS163A	74-163N	TTL	LC11	Digital	DL	155#	MC54F182J(A)	74-182	TTL	LC19	Digital	DL
46#	MB74LS163AM	74-163N	TTL	LC11	Digital	DL	156#	MC54F182N(A)	74-182	TTL	LC19	Digital	DL
47#	MB74LS174	74-174N	TTL	LC04	Digital	DL	157#	MC54F190J(A)	74-190	TTL	LC11	Digital	DL
48#	MB74LS174M	74-174N	TTL	LC04	Digital	DL	158#	MC54F190N(A)	74-190	TTL	LC11	Digital	DL
49#	MB74LS175	74-175N	TTL	LC04	Digital	DL	159#	MC54F191J(A)	74-191	TTL	LC11	Digital	DL
50#	MB74LS175M	74-175N	TTL	LC04	Digital	DL	160#	MC54F191N(A)	74-191	TTL	LC11	Digital	DL
51#	MB74LS181	74-181	TTL	LC18	Digital	DL	161#	MC54F283J(A)	74-283	TTL	LC15	Digital	DL
52#	MB74LS181M	74-181	TTL	LC18	Digital	DL	162#	MC54F283N(A)	74-283	TTL	LC15	Digital	DL
53#	MB74LS183	74H183N	TTL	LC15	Digital	DL	163#	MC54F374J(A)	74LS364	TTL	LC04	Digital	DL
54#	MB74LS183M	74H183N	TTL	LC15	Digital	DL	164#	MC54F374N(A)	74LS364	TTL	LC04	Digital	DL
55#	MB74LS190	74-190N	TTL	LC11	Digital	DL	165#	MC54F521J(A)	74ALS521	TTL	LC17	Digital	DL
56#	MB74LS190M	74-190N	TTL	LC11	Digital	DL	166#	MC54F521N(A)	74ALS521	TTL	LC17	Digital	DL
57#	MB74LS191	74-191N	TTL	LC11	Digital	DL	167#	MC54F533J(A)	74LS533	TTL	LC26	Digital	DL
58#	MB74LS192	74-192N	TTL	LC11	Digital	DL	168#	MC54F533N(A)	74LS533	TTL	LC26	Digital	DL
59#	MB74LS192M	74-192N	TTL	LC11	Digital	DL	169#	MC54HC27J(A)	74-27	CMS	LC05	Digital	DL
60#	MB74LS193	74-193N	TTL	LC11	Digital	DL	170#	MC54HC73J(A)	74-73	CMS	LC04	Digital	DL
61#	MB74LS193M	74-193N	TTL	LC11	Digital	DL	171#	MC54HC75J(A)	74-75	CMS	LC26	Digital	DL
62#	MB74LS221	74-221	TTL	LC10	Digital	DL	172#	MC54HC76J(A)	74LS76	CMS	LC04	Digital	DL
63#	MB74LS221M	74-221	TTL	LC10	Digital	DL	173#	MC54HC85J(A)	74-85	CMS	LC17	Digital	DL
64#	MB74LS266	74LS266N	TTL	LC05	Digital	DL	174#	MC54HC107J(A)	74-107	CMS	LC04	Digital	DL
65#	MB74LS266M	74LS266N	TTL	LC05	Digital	DL	175#	MC54HC112J(A)	74LS112	CMS	LC04	Digital	DL
66#	MB74LS280	74S280N	TTL	LC25	Digital	DL	176#	MC54HC390J(A)	74-390	CMS	LC11	Digital	DL
67#	MB74LS280M	74S280N	TTL	LC25	Digital	DL	177#	MC54HC393J(A)	74-393	CMS	LC11	Digital	DL
68#	MB74LS283	74-283	TTL	LC15	Digital	DL	178#	MC74F64J(A)	74S64	TTL	LC05	Digital	DL
69#	MB74LS283M	74-283	TTL	LC15	Digital	DL	179#	MC74F64N(A)	74S64	TTL	LC05	Digital	DL
70#	MB74LS386	74L86N	TTL	LC05	Digital	DL	180#	MC74F74J(A)	74-74	TTL	LC04	Digital	DL
71#	MB74LS386M	74L86N	TTL	LC05	Digital	DL	181#	MC74F74N(A)	74-74	TTL	LC04	Digital	DL
72#	MB400	74-00N	TTL	LC05	Digital	DL	182#	MC74F86J(A)	74-86	TTL	LC05	Digital	DL
73#	MB400M	74-00N	TTL	LC05	Digital	DL	183#	MC74F86N(A)	74-86	TTL	LC05	Digital	DL
74#	MB401	74-00N	TTL	LC05	Digital	DL	184#	MC74F109J(A)	74-109	TTL	LC04	Digital	DL
75#	MB401M	74-00N	TTL	LC05	Digital	DL	185#	MC74F109N(A)	74-109	TTL	LC04	Digital	DL
76#	MB402	74-22N	TTL	LC05	Digital	DL	186#	MC74F175J(A)	74-175	TTL	LC04	Digital	DL
77#	MB402M	74-22N	TTL	LC05	Digital	DL	187#	MC74F175N(A)	74-175	TTL	LC04	Digital	DL
78#	MB403	74-30N	TTL	LC05	Digital	DL	188#	MC74F181J(A)	74-181	TTL	LC18	Digital	DL
79#	MB403M	74-30N	TTL	LC05	Digital	DL	189#	MC74F181N(A)	74-181	TTL	LC18	Digital	DL
80#	MB404	74-13N	TTL	LC05	Digital	DL	190#	MC74F182J(A)	74-182	TTL	LC19	Digital	DL
81#	MB404M	74-13N	TTL	LC05	Digital	DL	191#	MC74F182N(A)	74-182	TTL	LC19	Digital	DL
82#	MB405	74-50N	TTL	LC05	Digital	DL	192#	MC74F190J(A)	74-190	TTL	LC11	Digital	DL
83#	MB405M	74-50N	TTL	LC05	Digital	DL	193#	MC74F190N(A)	74-190	TTL	LC11	Digital	DL
84#	MB407	74L71N	TTL	LC04	Digital	DL	194#	MC74F191J(A)	74-191	TTL	LC11	Digital	DL
85#	MB407M	74L71N	TTL	LC04	Digital	DL	195#	MC74F191N(A)	74-191	TTL	LC11	Digital	DL
86#	MB408	74-80N	TTL	LC15	Digital	DL	196#	MC74F283J(A)	74-283	TTL	LC15	Digital	DL
87#	MB408M	74-80N	TTL	LC15	Digital	DL	197#	MC74F283N(A)	74-283	TTL	LC15	Digital	DL
88#	MB410	74-107N	TTL	LC04	Digital	DL	198#	MC74F374J(A)	74LS364	TTL	LC04	Digital	DL
89#	MB410M	74-107N	TTL	LC04	Digital	DL	199#	MC74F374N(A)	74LS364	TTL	LC04	Digital	DL
90#	MB411	74-53N	TTL	LC05	Digital	DL	200#	MC74F521J(A)	74ALS521	TTL	LC17	Digital	DL
91#	MB411M	74-53N	TTL	LC05	Digital	DL	201#	MC74F521N(A)	74ALS521	TTL	LC17	Digital	DL
92#	MB416	74-03N	TTL	LC05	Digital	DL	202#	MC74F533J(A)	74LS533	TTL	LC26	Digital	DL
93#	MB416M	74-03N	TTL	LC05	Digital	DL	203#	MC74F533N(A)	74LS533	TTL	LC26	Digital	DL
94#	MB430	74LS77N	TTL	LC26	Digital	DL	204#	MC74HC27J(A)	74-27	CMS	LC05	Digital	DL
95#	MB430M	74LS77N	TTL	LC26	Digital	DL	205#	MC74HC27N(A)	74-27	CMS	LC05	Digital	DL
96#	MB431	74-03N	TTL	LC05	Digital	DL	206#	MC74HC73J(A)	74-73	CMS	LC04	Digital	DL
97#	MB431M	74-03N	TTL	LC05	Digital	DL	207#	MC74HC73N(A)	74-73	CMS	LC04	Digital	DL
98#	MB433	74-03N	TTL	LC05	Digital	DL	208#	MC74HC75J(A)	74-75	CMS	LC26	Digital	DL
99#	MB433M	74-03N	TTL	LC05	Digital	DL	209#	MC74HC75N(A)	74-75	CMS	LC26	Digital	DL
100#	MB435	74-00N	TTL	LC05	Digital	DL	210#	MC74HC76J(A)	74LS76	CMS	LC04	Digital	DL
101#	MB435M	74-00N	TTL	LC05	Digital	DL	211#	MC74HC76N(A)	74LS				

TYPE TO FUNCTIONAL EQUIVALENCE NUMBER

IN ORDER OF: (1) MFG TYPE NUMBER

LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GP E	LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GP E
1	MC74HC353(A)	74-393	CMS	LC11	Digital	DL	111	MC14028BCP	40-28B	CMS	LC06	Digital	DL
2	MC846L.P%	74-00N	DTL	LC05	Digital	DL	112	MC14029BAL	40-29B	CMS	LC11	Digital	DL
3	MC862L.P%	74-10N	DTL	LC05	Digital	DL	113	MC14029BCL	40-29B	CMS	LC11	Digital	DL
4	MC863L.P%	74-10N	DTL	LC05	Digital	DL	114	MC14029BCP	40-29B	CMS	LC11	Digital	DL
5	MC946L	74-00N	DTL	LC05	Digital	DL	115	MC14032BAL	40-32B	CMS	LC15	Digital	DL
6	MC962L	74-10N	DTL	LC05	Digital	DL	116	MC14032BCL	40-32B	CMS	LC15	Digital	DL
7	MC963L	74-10N	DTL	LC05	Digital	DL	117	MC14032BCP	40-32B	CMS	LC15	Digital	DL
8	MC1807L.P%	74-08N	DTL	LC05	Digital	DL	118	MC14038BAL	40-38B	CMS	LC15	Digital	DL
9	MC1808L.P%	74-32N	DTL	LC05	Digital	DL	119	MC14038BCL	40-38B	CMS	LC15	Digital	DL
10	MC1809L.P%	74-32N	DTL	LC05	Digital	DL	120	MC14038BCP	40-38B	CMS	LC15	Digital	DL
11	MC1818L.P%	74-03N	DTL	LC05	Digital	DL	121	MC14040BAL	40-40B	CMS	LC11	Digital	DL
12	MC1906F	54S08W	DTL	LC05	Digital	FL	122	MC14040BCL	40-40B	CMS	LC11	Digital	DL
13	MC1906L	74-08N	DTL	LC05	Digital	DL	123	MC14040BCP	40-40B	CMS	LC11	Digital	DL
14	MC1907F	54S08W	DTL	LC05	Digital	FL	124	MC14042BAL	40-42B	CMS	LC26	Digital	DL
15	MC1907L	74-08N	DTL	LC05	Digital	DL	125	MC14042BCL	40-42B	CMS	LC26	Digital	DL
16	MC1908F	54-32W	DTL	LC05	Digital	FL	126	MC14042BCP	40-42B	CMS	LC26	Digital	DL
17	MC1908L	74-32N	DTL	LC05	Digital	DL	127	MC14043BAL	40-43B	CMS	LC26	Digital	DL
18	MC1909F	54-32W	DTL	LC05	Digital	FL	128	MC14043BCL	40-43B	CMS	LC26	Digital	DL
19	MC1909L	74-32N	DTL	LC05	Digital	DL	129	MC14043BCP	40-43B	CMS	LC26	Digital	DL
20	MC1912F	54-86W	DTL	LC05	Digital	FL	130	MC14044BAL	40-44B	CMS	LC26	Digital	DL
21	MC1912L	74-86N	DTL	LC05	Digital	DL	131	MC14044BCL	40-44B	CMS	LC26	Digital	DL
22	MC1918F	54S03W	DTL	LC05	Digital	FL	132	MC14044BCP	40-44B	CMS	LC26	Digital	DL
23	MC1918L	74-03N	DTL	LC05	Digital	DL	133	MC14068BAL	40-68B	CMS	LC05	Digital	DL
24	MC3001L.P%	74-08N	TTL	LC05	Digital	DL	134	MC14068BCL	40-68B	CMS	LC05	Digital	DL
25	MC3025L.P%	74-13N	TTL	LC05	Digital	DL	135	MC14068BCP	40-68B	CMS	LC05	Digital	DL
26	MC3026L.P%	74H21N	TTL	LC05	Digital	DL	136	MC14069UBCL	74-04N	CMS	LC05	Digital	DL
27	MC3101F	54S09W	TTL	LC05	Digital	FL	137	MC14069UBCP	74-04N	CMS	LC05	Digital	DL
28	MC3101L	74-08N	TTL	LC05	Digital	DL	138	MC14070BAL	74L86N	CMS	LC05	Digital	DL
29	MC3102F	54S02W	TTL	LC05	Digital	FL	139	MC14070BCL	74L86N	CMS	LC05	Digital	DL
30	MC3102L	74H02P	TTL	LC05	Digital	DL	140	MC14070BCP	74L86N	CMS	LC05	Digital	DL
31	MC3121F	54-86W	TTL	LC05	Digital	FL	141	MC14071BAL	40-71B	CMS	LC05	Digital	DL
32	MC3121L	74-86N	TTL	LC05	Digital	DL	142	MC14071BCL	40-71B	CMS	LC05	Digital	DL
33	MC3122L	74H89P	TTL	LC05	Digital	DL	143	MC14071BCP	40-71B	CMS	LC05	Digital	DL
34	MC3126F	74H21	TTL	LC05	Digital	FL	144	MC14072BAL	40-72B	CMS	LC05	Digital	DL
35	MC3126L	74H21	TTL	LC05	Digital	DL	145	MC14072BCL	40-72B	CMS	LC05	Digital	DL
36	MC3160L	74-74N	TTL	LC04	Digital	DL	146	MC14072BCP	40-72B	CMS	LC05	Digital	DL
37	MC3161L	74H119P	TTL	LC04	Digital	DL	147	MC14073BAL	40-73B	CMS	LC05	Digital	DL
38	MC3162L	74LS113N	TTL	LC04	Digital	DL	148	MC14073BCL	40-73B	CMS	LC05	Digital	DL
39	MC4006L.P%	74-406	TTL	LC06	Digital	DL	149	MC14073BCP	40-73B	CMS	LC05	Digital	DL
40	MC4008L	74-408P	TTL	LC25	Digital	DL	150	MC14075BAL	40-75B	CMS	LC05	Digital	DL
41	MC4008P	74-408P	TTL	LC25	Digital	DL	151	MC14075BCL	40-75B	CMS	LC05	Digital	DL
42	MC4015L	74-415N	TTL	LC04	Digital	DL	152	MC14075BCP	40-75B	CMS	LC05	Digital	DL
43	MC4015P	74-415N	TTL	LC04	Digital	DL	153	MC14078BAL	40-78B	CMS	LC05	Digital	DL
44	MC4021P	74-421	TTL	LC17	Digital	DL	154	MC14078BCL	40-78B	CMS	LC05	Digital	DL
45	MC4022P	74-422	TTL	LC17	Digital	DL	155	MC14078BCP	40-78B	CMS	LC05	Digital	DL
46	MC4042L.P%	74LS442N	TTL	LC27	Digital	DL	156	MC14081BAL	40-81B	CMS	LC05	Digital	DL
47	MC4050L	74-450	TTL	LC11	Digital	DL	157	MC14081BCL	40-81B	CMS	LC05	Digital	DL
48	MC4050P	74-450	TTL	LC11	Digital	DL	158	MC14081BCP	40-81B	CMS	LC05	Digital	DL
49	MC4306F	54-406	TTL	LC06	Digital	FL	159	MC14082BAL	40-82B	CMS	LC05	Digital	DL
50	MC4306L	74-406	TTL	LC06	Digital	DL	160	MC14082BCL	40-82B	CMS	LC05	Digital	DL
51	MC4308F	54-408W	TTL	LC25	Digital	DL	161	MC14099BAL	40-99B	CMS	LC26	Digital	DL
52	MC4308L	74-408P	TTL	LC25	Digital	DL	162	MC14099BCL	40-99B	CMS	LC26	Digital	DL
53	MC14000UBAL	40-00B	CMS	LC05	Digital	DL	163	MC14099BCP	40-99B	CMS	LC26	Digital	DL
54	MC14000UBCL	40-00B	CMS	LC05	Digital	DL	164	MC14160BAL	74-160N	CMS	LC11	Digital	DL
55	MC14000UBCP	40-00B	CMS	LC05	Digital	DL	165	MC14160BCL	74-160N	CMS	LC11	Digital	DL
56	MC14001BAL	40-01B	CMS	LC05	Digital	DL	166	MC14160BCP	74-160N	CMS	LC11	Digital	DL
57	MC14001BCL	40-01B	CMS	LC05	Digital	DL	167	MC14161BAL	74-161N	CMS	LC11	Digital	DL
58	MC14001BCP	40-01B	CMS	LC05	Digital	DL	168	MC14161BCL	74-161N	CMS	LC11	Digital	DL
59	MC14001UBAL	40-01B	CMS	LC05	Digital	DL	169	MC14161BCP	74-161N	CMS	LC11	Digital	DL
60	MC14001UBCL	40-01B	CMS	LC05	Digital	DL	170	MC14162BAL	74-162N	CMS	LC11	Digital	DL
61	MC14001UBCP	40-01B	CMS	LC05	Digital	DL	171	MC14162BCL	74-162N	CMS	LC11	Digital	DL
62	MC14002BAL	40-02B	CMS	LC05	Digital	DL	172	MC14162BCP	74-162N	CMS	LC11	Digital	DL
63	MC14002BCL	40-02B	CMS	LC05	Digital	DL	173	MC14163BAL	74-163N	CMS	LC11	Digital	DL
64	MC14002BCP	40-02B	CMS	LC05	Digital	DL	174	MC14163BCL	74-163N	CMS	LC11	Digital	DL
65	MC14002UBAL	40-02B	CMS	LC05	Digital	DL	175	MC14163BCP	74-163N	CMS	LC11	Digital	DL
66	MC14002UBCL	40-02B	CMS	LC05	Digital	DL	176	MC14408L	44-08	MOS	LC27	Digital	DL
67	MC14002UBCP	40-02	CMS	LC05	Digital	DL	177	MC14408P	44-08	MOS	LC27	Digital	DL
68	MC14008BAL	40-08B	CMS	LC15	Digital	DL	178	MC14409L	44-09	MOS	LC27	Digital	DL
69	MC14008BCL	40-08B	CMS	LC15	Digital	DL	179	MC14409P	44-09	MOS	LC27	Digital	DL
70	MC14008BCP	40-08B	CMS	LC15	Digital	DL	180	MC14411L	44-11	MOS	LC27	Digital	DL
71	MC14011BAL	40-11B	CMS	LC04	Digital	DL	181	MC14411P	44-11	MOS	LC27	Digital	DL
72	MC14011BCL	40-11B	CMS	LC05	Digital	DL	182	MC14415EFL	45-15P	CMS	LC10	Digital	DL
73	MC14011BCP	40-11B	CMS	LC05	Digital	DL	183	MC14415EVL	45-15	CMS	LC10	Digital	DL
74	MC14011UBAL	40-11B	CMS	LC05	Digital	DL	184	MC14415FL	45-15P	CMS	LC10	Digital	DL
75	MC14011UBCL	40-11B	CMS	LC05	Digital	DL	185	MC14415FP	45-15P	CMS	LC10	Digital	DL
76	MC14011UBCP	40-11B	CMS	LC05	Digital	DL	186	MC14415VL	45-15P	CMS	LC10	Digital	DL
77	MC14012BAL	40-12B	CMS	LC05	Digital	DL	187	MC14415VP	45-15P	CMS	LC10	Digital	DL
78	MC14012BCL	40-12B	CMS	LC05	Digital	DL	188	MC14419L	44-19P	MOS	LC27	Digital	DL
79	MC14012BCP	40-12B	CMS	LC05	Digital	DL	189	MC14419P	44-19P	MOS	LC27	Digital	DL
80	MC14012UBAL	40-12B	CMS	LC05	Digital	DL	190	MC14490EFL	44-90P	MOS	LC27	Digital	DL
81	MC14012UBCL	40-12B	CMS	LC05	Digital	DL	191	MC14490EVL	44-90P	MOS	LC27	Digital	DL
82	MC14013BAL	40-13B	CMS	LC04	Digital	DL	192	MC14490FL	44-90P	MOS	LC27	Digital	DL
83	MC14013BCL	40-13B	CMS	LC04	Digital	DL	193	MC14490FP	44-90P	MOS	LC27	Digital	DL
84	MC14013BCP	40-13B	CMS	LC04	Digital	DL	194	MC14490VL	44-90P	MOS	LC27	Digital	DL
85	MC14018BAL	40-18B	CMS	LC11	Digital	DL	195	MC14490VP	44-90P	MOS	LC27	Digital	DL
86	MC14018BCL	40-18B	CMS	LC11	Digital	DL	196	MC14501UBAL	45-01A	CMS	LC05	Digital	DL
87	MC14018BCP	40-18B	CMS	LC11	Digital	DL	197	MC14501UBCL	45-01A	CMS	LC05	Digital	DL
88	MC14020BAL	40-20B	CMS	LC11	Digital	DL	198	MC14501UBCP	45-01A	CMS	LC05	Digital	DL
89	MC14020BCL	40-20B	CMS	LC11	Digital	DL	199	MC14506BAL	45-06B	CMS	LC05	Digital	DL
90	MC14020BCP	40-20B	CMS	LC11	Digital	DL	200	MC14506BCL	45-06B	CMS	LC05	Digital	DL
91	MC14022BAL	40-22B	CMS	LC11	Digital	DL	201	MC14506BCP	45-06B	CMS	LC05	Digital	DL
92	MC14022BCL	40-22B	CMS	LC11	Digital	DL	202	MC14510BAL	45-10B	CMS	LC11	Digital	DL
93	MC14022BCP	40-22B	CMS	LC11	Digital	DL	203	MC14510BCP	45-10B	CMS	LC11	Digital	DL
94	MC14023BAL	40-23B	CMS	LC05	Digital	DL	204	MC14516BAL	45-16B	CMS	LC11	Digital	DL
95	MC14023BCL	40-23B	CMS	LC05	Digital	DL	205	MC14516BCL	45-16B	CMS	LC11	Digital	DL
96	MC14023BCP	40-23B	CMS	LC05	Digital	DL	206	MC14516BCP	45-16B	CMS	LC11	Digital	DL
97	MC14023UBAL	40-23B	CMS	LC05	Digital	DL	207	MC14518BAL	45-18B	CMS	LC11	Digital	DL
98	MC14023UBCL	40-23B	CMS	LC05	Digital	DL	208	MC14518BCL	45-18B	CMS	LC11	Digital	DL
99	MC14023UBCP	40-23B	CMS	LC05	Digital	DL	209	MC14518BCP	45-18B	CMS	LC11	Digital	DL
100	MC14024BAL	40-24B	CMS	LC11	Digital	DL	210	MC14520BAL	45-20B	CMS	LC11	Digital	DL
101	MC14024BCL	40-24B	CMS	LC11	Digital	DL	211	MC14520BCL	45-20B	CMS	LC11	Digital	DL
102	MC14025BAL	40-25B	CMS	LC05	Digital	DL	212	MC14520BCP	45-20B</				

TYPE TO FUNCTIONAL EQUIVALENCE NUMBER

IN ORDER OF: (1) MFG TYPE NUMBER

LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GPE	LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GPE
1	MC14528BCP	45-28	CMS	LC10	Digital	DL	111	MM74C373N	74LS363	CMS	LC26	Digital	DL
2	MC14530BAL	45-30B	MOS	LC27	Digital	DL	112	MM74C922N	74C922		LC27	Digital	DL
3	MC14530BCL	45-30B	MOS	LC27	Digital	DL	113	MM74C923N	74C923		LC27	Digital	DL
4	MC14530BCP	45-30B	MOS	LC27	Digital	DL	114	MM74HC00J(A)	74-00	CMS	LC05	Digital	DL
5	MC14531BAL	45-31B	CMS	LC25	Digital	DL	115	MM74HC00N	74-00	CMS	LC05	Digital	DL
6	MC14531BCL	45-31B	CMS	LC25	Digital	DL	116	MM74HC10J	74-10	CMS	LC05	Digital	DL
7	MC14531BCP	45-31B	CMS	LC25	Digital	DL	117	MM74HC10N(A)	74-10	CMS	LC05	Digital	DL
8	MC14534BAL	45-34B	CMS	LC11	Digital	DL	118	MM74HC20J	74H20	CMS	LC05	Digital	DL
9	MC14534BCL	45-34B	CMS	LC11	Digital	DL	119	MM74HC20N(A)	74H20	CMS	LC05	Digital	DL
10	MC14534BCP	45-34B	CMS	LC11	Digital	DL	120	MM74HC30J	74-30	CMS	LC05	Digital	DL
11	MC14536BAL	45-36B	CMS	LC10	Digital	DL	121	MM74HC30N(A)	74-30	CMS	LC05	Digital	DL
12	MC14536BCL	45-36B	CMS	LC10	Digital	DL	122	MM74HC133J	74-133	CMS	LC05	Digital	DL
13	MC14536BCP	45-36B	CMS	LC10	Digital	DL	123	MM74HC133N(A)	74-133	CMS	LC05	Digital	DL
14	MC14538BAL	45-28	CMS	LC10	Digital	DL	124	MM74PC00J	74-00	PCH	LC05	Digital	DL
15	MC14538BCL	45-28	CMS	LC10	Digital	DL	125	MM74PC00N	74-00	PCH	LC05	Digital	DL
16	MC14538BCP	45-28	CMS	LC10	Digital	DL	126	MM74PC00N	74-00	PCH	LC05	Digital	DL
17	MC14541BAL	45-41B	CMS	LC10	Digital	DL	127	MM74PC00N!	74-00	PCH	LC05	Digital	DL
18	MC14541BCL	45-41B	CMS	LC10	Digital	DL	128	MM74PC02J	74-02	PCH	LC05	Digital	DL
19	MC14541BCP	45-41B	CMS	LC10	Digital	DL	129	MM74PC02J!	74-02	PCH	LC05	Digital	DL
20	MC14553BAL	45-53B	CMS	LC11	Digital	DL	130	MM74PC02N	74-02	PCH	LC05	Digital	DL
21	MC14553BCL	45-53B	CMS	LC11	Digital	DL	131	MM74PC02N!	74-02	PCH	LC05	Digital	DL
22	MC14553BCP	45-53B	CMS	LC11	Digital	DL	132	MM74PC04J	74-04	PCH	LC05	Digital	DL
23	MC14554BAL	45-54B	CMS	LC16	Digital	DL	133	MM74PC04J!	74-04	PCH	LC05	Digital	DL
24	MC14554BCL	45-54B	CMS	LC16	Digital	DL	134	MM74PC04N	74-04	PCH	LC05	Digital	DL
25	MC14554BCP	45-54	CMS	LC16	Digital	DL	135	MM74PC04N!	74-04	PCH	LC05	Digital	DL
26	MC14560BAL	45-60B	CMS	LC15	Digital	DL	136	MM74PC08J	74-08	PCH	LC05	Digital	DL
27	MC14560BCL	45-60B	CMS	LC15	Digital	DL	137	MM74PC08J!	74-08	PCH	LC05	Digital	DL
28	MC14560BCP	45-60B	CMS	LC15	Digital	DL	138	MM74PC08N	74-08	PCH	LC05	Digital	DL
29	MC14566BAL	45-66	MOS	LC27	Digital	DL	139	MM74PC08N!	74-08	PCH	LC05	Digital	DL
30	MC14566BCL	45-66	MOS	LC27	Digital	DL	140	MM74PC32J	74-32	PCH	LC05	Digital	DL
31	MC14566BCP	45-66	MOS	LC27	Digital	DL	141	MM74PC32J!	74-32	PCH	LC05	Digital	DL
32	MC14572UBAL	45-72U	MOS	LC27	Digital	DL	142	MM74PC32N	74-32	PCH	LC05	Digital	DL
33	MC14572UBCL	45-72U	MOS	LC27	Digital	DL	143	MM74PC32N!	74-32	PCH	LC05	Digital	DL
34	MC14572UBCP	45-72	MOS	LC27	Digital	DL	144	MM4601AD	40-01B	TTL	LC05	Digital	DL
35	MC14581BAL	74-181	CMS	LC18	Digital	DL	145	MM4602AD	40-02B	CMS	LC05	Digital	DL
36	MC14581BCL	74-181	CMS	LC18	Digital	DL	146	MM4602AF	40-02B	CMS	LC05	Digital	DL
37	MC14581BCP	74-181	CMS	LC18	Digital	DL	147	MM4611AD	40-11B	CMS	LC05	Digital	DL
38	MC14582BAL	74-182	CMS	LC19	Digital	DL	148	MM4611AF	40-11B	CMS	LC05	Digital	FL
39	MC14582BCL	74-182	CMS	LC19	Digital	DL	149	MM4612AD	40-12B	CMS	LC05	Digital	DL
40	MC14582BCP	74-182	CMS	LC19	Digital	DL	150	MM4612AF	40-12B	CMS	LC05	Digital	FL
41	MC14585BAL	45-85B	CMS	LC17	Digital	DL	151	MM4613AD	40-13B	CMS	LC04	Digital	DL
42	MC14585BCL	45-85B	CMS	LC17	Digital	DL	152	MM4613AF	40-13B	CMS	LC04	Digital	FL
43	MC14585BCP	45-85B	CMS	LC17	Digital	DL	153	MM4617AD	40-17B	CMS	LC11	Digital	DL
44	MC14597BAL	45-97B	CMS	LC26	Digital	DL	154	MM4617AF	40-17B	CMS	LC11	Digital	DL
45	MC14597BCL	45-97B	CMS	LC26	Digital	DL	155	MM4619AD	40-19B	CMS	LC05	Digital	DL
46	MC14597BCP	45-97B	CMS	LC26	Digital	DL	156	MM4619AF	40-19B	CMS	LC05	Digital	DL
47	MC14598BAL	45-98B	CMS	LC26	Digital	DL	157	MM4620AD	40-20B	CMS	LC11	Digital	DL
48	MC14598BCL	45-98B	CMS	LC26	Digital	DL	158	MM4620AF	40-20B	CMS	LC11	Digital	DL
49	MC14598BCP	45-98B	CMS	LC26	Digital	DL	159	MM4622AD	40-22B	CMS	LC11	Digital	DL
50	MC14599BAL	45-99B	CMS	LC26	Digital	DL	160	MM4622AF	40-22B	CMS	LC11	Digital	DL
51	MC14599BCL	45-99B	CMS	LC26	Digital	DL	161	MM4623AD	40-23B	CMS	LC05	Digital	DL
52	MC14599BCP	45-99B	CMS	LC26	Digital	DL	162	MM4623AF	40-23B	CMS	LC05	Digital	FL
53	MC145000	45-000	MOS	LC27	Digital	DL	163	MM4624AD	40-24B	CMS	LC11	Digital	DL
54	MC145001	45-001	MOS	LC27	Digital	DL	164	MM4624AF	40-24B	CMS	LC11	Digital	DL
55	MM54C00D	74-00N	CMS	LC05	Digital	DL	165	MM4625AF	40-25B	CMS	LC05	Digital	FL
56	MM54C02D	74-02N	CMS	LC05	Digital	DL	166	MM4627AD	40-27B	CMS	LC04	Digital	DL
57	MM54C08D	74-08N	CMS	LC05	Digital	DL	167	MM4627AF	40-27B	CMS	LC04	Digital	DL
58	MM54C10D	74-10N	CMS	LC05	Digital	DL	168	MM4630AD	74L86N	CMS	LC05	Digital	DL
59	MM54C20D	74-20N	CMS	LC05	Digital	DL	169	MM4630AF	74L86N	CMS	LC05	Digital	DL
60	MM54C30D	74-30N	CMS	LC05	Digital	DL	170	MM5601AN	40-01B	TTL	LC05	Digital	DL
61	MM54C32D	74-32N	CMS	LC05	Digital	DL	171	MM5602AN	40-02B	CMS	LC05	Digital	DL
62	MM54C42D	74-42N	CMS	LC06	Digital	DL	172	MM5611AN	40-11B	CMS	LC05	Digital	DL
63	MM54C48D	74-48	CMS	LC06	Digital	DL	173	MM5612AN	40-12B	CMS	LC05	Digital	DL
64	MM54C73D	74-73N	CMS	LC04	Digital	DL	174	MM5613AN	40-13B	CMS	LC04	Digital	DL
65	MM54C74D	74-74	CMS	LC04	Digital	DL	175	MM5617AN	40-17B	CMS	LC11	Digital	DL
66	MM54C76D	74LS76N	CMS	LC04	Digital	DL	176	MM5619AN	40-19B	CMS	LC05	Digital	DL
67	MM54C83D	74-83	CMS	LC15	Digital	DL	177	MM5620AN	40-20B	CMS	LC11	Digital	DL
68	MM54C86D	74L86N	CMS	LC05	Digital	DL	178	MM5622AN	40-22B	CMS	LC11	Digital	DL
69	MM54C90D	74-90N	CMS	LC11	Digital	DL	179	MM5623AN	40-23B	CMS	LC05	Digital	DL
70	MM54C93D	74L93N	CMS	LC11	Digital	DL	180	MM5624AN	40-24B	CMS	LC11	Digital	DL
71	MM54C107D	74-107N	CMS	LC04	Digital	DL	181	MM5625AN	40-25B	CMS	LC05	Digital	DL
72	MM54C173D	74-173N	CMS	LC04	Digital	DL	182	MM5627AN	40-27B	CMS	LC04	Digital	DL
73	MM54C174D	74-174N	CMS	LC04	Digital	DL	183#	MSM500	40-11B	CMS	LC05	Digital	DL
74	MM54C175D	74-175N	CMS	LC04	Digital	DL	184#	MSM505	40-01B	CMS	LC05	Digital	DL
75	MM54C192D	74-192N	CMS	LC11	Digital	DL	185#	MSM4001	40-01B	CMS	LC05	Digital	DL
76	MM54C193D	74-193N	CMS	LC11	Digital	DL	186#	MSM4002	40-02B	CMS	LC05	Digital	DL
77	MM54C221D	74-221	CMS	LC10	Digital	DL	187#	MSM4002RS	40-02	CMS	LC05	Digital	DL
78	MM54C922N	74C922	CMS	LC27	Digital	DL	188#	MSM4008	40-08B	CMS	LC15	Digital	DL
79	MM54HC00J(A)	74-00	CMS	LC05	Digital	DL	189#	MSM4011	40-11B	CMS	LC05	Digital	DL
80	MM54HC10J(A)	74-10	CMS	LC05	Digital	DL	190#	MSM4012	40-12B	CMS	LC05	Digital	DL
81	MM54HC20J(A)	74H20	CMS	LC05	Digital	DL	191#	MSM4013	40-13B	CMS	LC04	Digital	DL
82	MM54HC30J(A)	74-30	CMS	LC05	Digital	DL	192#	MSM4017	40-17B	CMS	LC11	Digital	DL
83	MM54HC133J(A)	74-133	CMS	LC05	Digital	DL	193#	MSM4019	40-19	CMS	LC05	Digital	DL
84	MM74C00N	74-00N	CMS	LC05	Digital	DL	194#	MSM4020	40-20B	CMS	LC11	Digital	DL
85	MM74C02N	74-02	CMS	LC05	Digital	DL	195#	MSM4023	40-23B	CMS	LC05	Digital	DL
86	MM74C08N	74-08N	CMS	LC05	Digital	DL	196#	MSM4027	40-27B	CMS	LC04	Digital	DL
87	MM74C10N	74-10N	CMS	LC05	Digital	DL	197#	MSM4028	40-28B	CMS	LC06	Digital	DL
88	MM74C20N	74-20N	CMS	LC05	Digital	DL	198#	MSM4040	40-40B	CMS	LC11	Digital	DL
89	MM74C30N	74-30N	CMS	LC05	Digital	DL	199#	MSM4043	40-43B	CMS	LC26	Digital	DL
90	MM74C32N	74-32N	CMS	LC05	Digital	DL	200#	MSM4044	40-44B	CMS	LC26	Digital	DL
91	MM74C42N	74-42N	CMS	LC06	Digital	DL	201#	MSM4068	40-68B	CMS	LC05	Digital	DL
92	MM74C48N	74-48N	CMS	LC06	Digital	DL	202#	MSM4069RS	74-04N	CMS	LC05	Digital	DL
93	MM74C73N	74-73	CMS	LC04	Digital	DL	203#	MSM4071	40-71B	CMS	LC05	Digital	DL
94	MM74C74N	74-74N	CMS	LC04	Digital	DL	204#	MSM4072	40-72B	CMS	LC05	Digital	DL
95	MM74C76N	74LS76	CMS	LC04	Digital	DL	205#	MSM4072RS	40-72	CMS	LC05	Digital	DL
96	MM74C83N	74-83	CMS	LC15	Digital	DL	206#	MSM4075	40-75B	CMS	LC05	Digital	DL
97	MM74C85N	74L85N	CMS	LC17	Digital	DL	207#	MSM4078	40-78B	CMS	LC05	Digital	DL
98	MM74C90N	74-90N	CMS	LC11	Digital	DL	208#	MSM4081	40-81B	CMS	LC05	Digital	DL
99	MM74C93N	74L93N	CMS	LC11	Digital	DL	209#	MSM4082	40-82B	CMS	LC05	Digital	DL
100	MM74C107N	74-107N	CMS	LC04	Digital	DL	210#	MSM4085	40-85B	CMS	LC05	Digital	DL
101	MM74C160N	74-160N	CMS	LC11	Digital	DL	211#	MSM4086	40-86B	CMS	LC05	Digital	DL
102	MM74C161N	74-161N	CMS	LC11	Digital	DL	212#	MSM4518	45-18B	CMS	LC05	Digital	DL
103	MM74C162N	74-162N	CMS	LC11	Digital	DL	213#	MSM4520	45-20B				

TYPE TO FUNCTIONAL EQUIVALENCE NUMBER

IN ORDER OF: (1) MFG TYPE NUMBER

LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GP E	LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GP E
1	N8H70J	54S10W	TTL	LC05	Digital	FL	111	N74LS11N	74-11N	TTL	LC05	Digital	DL
2	N8H80A	74-00N	TTL	LC05	Digital	DL	112	N74LS12F	74-12N	TTL	LC05	Digital	DL
3	N8H80J	54S00W	TTL	LC05	Digital	FL	113	N74LS12N	74-12N	TTL	LC05	Digital	DL
4	N8T22A	74-122	TTL	LC10	Digital	DL	114	N74LS15F	74H15N	TTL	LC05	Digital	DL
5	N8T22F	74-122	TTL	LC10	Digital	DL	115	N74LS15N	74H15N	TTL	LC05	Digital	DL
6	N8T22N	74-122	TTL	LC10	Digital	DL	116	N74LS20D	74-13N	TTL	LC05	Digital	DL
7	N74F00F	74-00	TTL	LC05	Digital	DL	117	N74LS20N	74-13	TTL	LC05	Digital	DL
8	N74F00N	74-00	TTL	LC05	Digital	DL	118	N74LS21D	74-21N	TTL	LC05	Digital	DL
9	N74F02F	74-02	TTL	LC05	Digital	DL	119	N74LS21N	74H21N	TTL	LC05	Digital	DL
10	N74F02N	74-02	TTL	LC05	Digital	DL	120	N74LS22F	74-22N	TTL	LC05	Digital	DL
11	N74F04F	74-04	TTL	LC05	Digital	DL	121	N74LS22N	74-22N	TTL	LC05	Digital	DL
12	N74F04N	74-04	TTL	LC05	Digital	DL	122	N74LS26D	74-03N	TTL	LC05	Digital	DL
13	N74F08N	74-08	TTL	LC05	Digital	DL	123	N74LS26N	74-03N	TTL	LC05	Digital	DL
14	N74F10F	74-10	TTL	LC05	Digital	DL	124	N74LS27F	74-27N	TTL	LC05	Digital	DL
15	N74F10N	74-10	TTL	LC05	Digital	DL	125	N74LS27N	74-27N	TTL	LC05	Digital	DL
16	N74F11F	74-11	TTL	LC05	Digital	DL	126	N74LS30D	74-30N	TTL	LC05	Digital	DL
17	N74F11N	74-11	TTL	LC05	Digital	DL	127	N74LS30N	74-30N	TTL	LC05	Digital	DL
18	N74F20F	74H20	TTL	LC05	Digital	DL	128	N74LS32D	74-32N	TTL	LC05	Digital	DL
19	N74F20N	74H20	TTL	LC05	Digital	DL	129	N74LS32N	74-32N	TTL	LC05	Digital	DL
20	N74F32N	74-32	TTL	LC05	Digital	DL	130	N74LS42D	74-42N	TTL	LC06	Digital	DL
21	N74F64F	74S64	TTL	LC05	Digital	DL	131	N74LS42N	74-42N	TTL	LC06	Digital	DL
22	N74F64N	74S64	TTL	LC05	Digital	DL	132	N74LS51D	74L51N	TTL	LC05	Digital	DL
23	N74F74F	74-74	TTL	LC04	Digital	DL	133	N74LS51N	74L51N	TTL	LC05	Digital	DL
24	N74F74N	74-74	TTL	LC04	Digital	DL	134	N74LS54D	74L54N	TTL	LC05	Digital	DL
25	N74F86F	74-86	TTL	LC05	Digital	DL	135	N74LS54N	74L54N	TTL	LC05	Digital	DL
26	N74F86N	74-86	TTL	LC05	Digital	DL	136	N74LS55F	74L55N	TTL	LC05	Digital	DL
27	N74F109F	74-109	TTL	LC04	Digital	DL	137	N74LS55N	74L55N	TTL	LC05	Digital	DL
28	N74F109N	74-109	TTL	LC04	Digital	DL	138	N74LS73F	74-73N	TTL	LC04	Digital	DL
29	N74F280AN	74S280	TTL	LC25	Digital	DL	139	N74LS73N	74-73N	TTL	LC04	Digital	DL
30	N74F374F	74-374	TTL	LC04	Digital	DL	140	N74LS74AF	74-74	TTL	LC04	Digital	DL
31	N74F374N	74-374	TTL	LC04	Digital	DL	141	N74LS74AN	54-74	TTL	LC04	Digital	DL
32	N74F521F	74LS521	TTL	LC17	Digital	DL	142	N74LS75F	74-75N	TTL	LC26	Digital	DL
33	N74F521N	74LS521	TTL	LC17	Digital	DL	143	N74LS75N	74-75N	TTL	LC26	Digital	DL
34	N74F534F	74LS534	TTL	LC04	Digital	DL	144	N74LS76F	74L576N	TTL	LC04	Digital	DL
35	N74F534N	74LS534	TTL	LC04	Digital	DL	145	N74LS76N	74L576N	TTL	LC04	Digital	DL
36	N74H00A	74-00N	TTL	LC05	Digital	DL	146	N74LS78F	74L78N	TTL	LC04	Digital	DL
37	N74H00N	74-00N	TTL	LC05	Digital	DL	147	N74LS78N	74L78N	TTL	LC04	Digital	DL
38	N74H01F	74-03N	TTL	LC05	Digital	DL	148	N74LS83AF	74-83	TTL	LC15	Digital	DL
39	N74H01N	74-03N	TTL	LC05	Digital	DL	149	N74LS83AN	74-83	TTL	LC15	Digital	DL
40	N74H08F	74-08N	TTL	LC05	Digital	DL	150	N74LS83F	74-83	TTL	LC15	Digital	DL
41	N74H08N	74-08N	TTL	LC05	Digital	DL	151	N74LS85F	74-85N	TTL	LC17	Digital	DL
42	N74H10F	74-10N	TTL	LC05	Digital	DL	152	N74LS85N	74-85N	TTL	LC17	Digital	DL
43	N74H10N	74-10N	TTL	LC05	Digital	DL	153	N74LS86F	74-86N	TTL	LC05	Digital	DL
44	N74H11F	74-11N	TTL	LC05	Digital	DL	154	N74LS86N	74-86N	TTL	LC05	Digital	DL
45	N74H11N	74-11N	TTL	LC05	Digital	DL	155	N74LS90F	54-90	TTL	LC11	Digital	DL
46	N74H20F	74-13N	TTL	LC05	Digital	DL	156	N74LS90N	74-90N	TTL	LC11	Digital	DL
47	N74H20N	74-13N	TTL	LC05	Digital	DL	157	N74LS92F	74-92N	TTL	LC11	Digital	DL
48	N74H21F	54H21W	TTL	LC05	Digital	DL	158	N74LS92N	74-92N	TTL	LC11	Digital	DL
49	N74H21N	74H21N	TTL	LC05	Digital	DL	159	N74LS93F	74LS93N	TTL	LC11	Digital	DL
50	N74H22F	74-22N	TTL	LC05	Digital	DL	160	N74LS93N	74LS93N	TTL	LC11	Digital	DL
51	N74H22N	74-22N	TTL	LC05	Digital	DL	161	N74LS107F	74-107N	TTL	LC04	Digital	DL
52	N74H30F	74-30N	TTL	LC05	Digital	DL	162	N74LS107N	74-107N	TTL	LC04	Digital	DL
53	N74H30N	74-30N	TTL	LC05	Digital	DL	163	N74LS109AF	54-109	TTL	LC04	Digital	DL
54	N74H30W	54S30W	TTL	LC05	Digital	FL	164	N74LS109AN	54-109	TTL	LC04	Digital	DL
55	N74H50F	74-50N	TTL	LC05	Digital	DL	165	N74LS109F	74-109N	TTL	LC04	Digital	DL
56	N74H50N	74-50N	TTL	LC05	Digital	DL	166	N74LS109N	54-109	TTL	LC04	Digital	DL
57	N74H51F	74-50N	TTL	LC05	Digital	DL	167	N74LS112F	74LS112N	TTL	LC04	Digital	DL
58	N74H51N	74-50N	TTL	LC05	Digital	DL	168	N74LS112N	74LS112N	TTL	LC04	Digital	DL
59	N74H52F	74H52N	TTL	LC05	Digital	DL	169	N74LS113F	74LS113N	TTL	LC04	Digital	DL
60	N74H52N	74H52N	TTL	LC05	Digital	DL	170	N74LS113N	74LS113N	TTL	LC04	Digital	DL
61	N74H53F	74H53N	TTL	LC05	Digital	DL	171	N74LS114F	74LS114N	TTL	LC04	Digital	DL
62	N74H53N	74H53N	TTL	LC05	Digital	DL	172	N74LS114N	74LS114N	TTL	LC04	Digital	DL
63	N74H54F	74H54N	TTL	LC05	Digital	DL	173	N74LS123AF	74-123	TTL	LC10	Digital	DL
64	N74H54N	74H54N	TTL	LC05	Digital	DL	174	N74LS123AN	74-123	TTL	LC10	Digital	DL
65	N74H55F	74H55N	TTL	LC05	Digital	DL	175	N74LS136F	74-136N	TTL	LC05	Digital	DL
66	N74H55N	74H55N	TTL	LC05	Digital	DL	176	N74LS136N	74-136N	TTL	LC05	Digital	DL
67	N74H60F	74-60N	TTL	LC05	Digital	DL	177	N74LS138F	74S138N	TTL	LC06	Digital	DL
68	N74H60N	74-60N	TTL	LC05	Digital	DL	178	N74LS138N	74S138N	TTL	LC06	Digital	DL
69	N74H61F	74H61N	TTL	LC05	Digital	DL	179	N74LS156N	74-156N	TTL	LC06	Digital	DL
70	N74H61N	74H61N	TTL	LC05	Digital	DL	180	N74LS156W	54-156W	TTL	LC06	Digital	FL
71	N74H62F	74H62N	TTL	LC05	Digital	DL	181	N74LS160AF	74-160N	TTL	LC11	Digital	DL
72	N74H62N	74H62N	TTL	LC05	Digital	DL	182	N74LS160AN	74-160	TTL	LC11	Digital	DL
73	N74H71F	74H71N	TTL	LC04	Digital	DL	183	N74LS161AD	74-161N	TTL	LC11	Digital	DL
74	N74H71N	74H71N	TTL	LC04	Digital	DL	184	N74LS161AN	74-161N	TTL	LC11	Digital	DL
75	N74H72F	74L71N	TTL	LC04	Digital	DL	185	N74LS162AF	74-162N	TTL	LC11	Digital	DL
76	N74H72N	74L71N	TTL	LC04	Digital	DL	186	N74LS162AN	74-162N	TTL	LC11	Digital	DL
77	N74H73F	74-73N	TTL	LC04	Digital	DL	187	N74LS163AD	74-163N	TTL	LC11	Digital	DL
78	N74H73N	74-73N	TTL	LC04	Digital	DL	188	N74LS163AN	74-163N	TTL	LC11	Digital	DL
79	N74H74N	74-74N	TTL	LC04	Digital	DL	189	N74LS168AF	74S168N	TTL	LC11	Digital	DL
80	N74H76F	74LS76N	TTL	LC04	Digital	DL	190	N74LS168AN	74S168N	TTL	LC11	Digital	DL
81	N74H76N	74LS76N	TTL	LC04	Digital	DL	191	N74LS169AF	74S169N	TTL	LC11	Digital	DL
82	N74H101F	74H71N	TTL	LC04	Digital	DL	192	N74LS169AN	74S169N	TTL	LC11	Digital	DL
83	N74H101N	74H71N	TTL	LC04	Digital	DL	193	N74LS173F	74-173	TTL	LC04	Digital	DL
84	N74H102F	74L71N	TTL	LC04	Digital	DL	194	N74LS173N	74-173	TTL	LC04	Digital	DL
85	N74H102N	74L71N	TTL	LC04	Digital	DL	195	N74LS174F	74-174N	TTL	LC04	Digital	DL
86	N74H103F	74H103	TTL	LC04	Digital	DL	196	N74LS174N	74-174N	TTL	LC04	Digital	DL
87	N74H103N	74H103	TTL	LC04	Digital	DL	197	N74LS175F	74-175N	TTL	LC04	Digital	DL
88	N74H106F	74LS76N	TTL	LC04	Digital	DL	198	N74LS175N	74-175N	TTL	LC04	Digital	DL
89	N74H106N	74LS76N	TTL	LC04	Digital	DL	199	N74LS181F	74-181	TTL	LC18	Digital	DL
90	N74H108F	74H78N	TTL	LC04	Digital	DL	200	N74LS181N	74-181	TTL	LC18	Digital	DL
91	N74H108N	74H78N	TTL	LC04	Digital	DL	201	N74LS190F	74-190N	TTL	LC11	Digital	DL
92	N74LS00D	74-00N	TTL	LC05	Digital	DL	202	N74LS190N	74-190N	TTL	LC11	Digital	DL
93	N74LS00N	74-00N	TTL	LC05	Digital	DL	203	N74LS191D	74-191N	TTL	LC11	Digital	DL
94	N74LS01F	74-01N	TTL	LC05	Digital	DL	204	N74LS191N	74-191N	TTL	LC11	Digital	DL
95	N74LS01N	74-01N	TTL	LC05	Digital	DL	205	N74LS192F	74-192N	TTL	LC11	Digital	DL
96	N74LS02D	74-02N	TTL	LC05	Digital	DL	206	N74LS192N	74-192N	TTL	LC11	Digital	DL
97	N74LS02N	74-02N	TTL	LC05	Digital	DL	207	N74LS193D	74-193N	TTL	LC11	Digital	DL
98	N74LS03F	74-03N	TTL	LC05	Digital	DL	208	N74LS193N	74-193N	TTL	LC11	Digital	DL
99	N74LS03N	74-03N	TTL	LC05	Digital	DL	209	N74LS196F	74-176N	TTL	LC11	Digital	DL
100	N74LS04F	74-04N	TTL	LC05	Digital	DL	210	N74LS196N	74-176N	TTL	LC11	Digital	DL
101	N74LS04N	74-04N	TTL	LC05	Digital	DL	211	N74LS197D	74-177N	TTL	LC11	Digital	DL
102	N74LS05F	74-05N	TTL	LC05	Digital	DL	212	N74LS197N	74-177N	TTL	LC11	Digital	DL
103	N74LS05N	74-05N	TTL	LC05	Digital	DL	213	N74LS221F</					

TYPE TO FUNCTIONAL EQUIVALENCE NUMBER

IN ORDER OF: (1) MFG TYPE NUMBER

LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GP E	LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GP E
1	N74LS261F	74LS261	TTL	LC16	Digital	DL	111	N74S260N	74S260N	TTL	LC05	Digital	DL
2	N74LS261N	74LS261	TTL	LC16	Digital	DL	112	N74S273F	74-273N	TTL	LC04	Digital	DL
3	N74LS266F	74LS266N	TTL	LC05	Digital	DL	113	N74S273N	74-273N	TTL	LC04	Digital	DL
4	N74LS266N	74LS266N	TTL	LC05	Digital	DL	114	N74S280F	74S280N	TTL	LC25	Digital	DL
5	N74LS273D	74-273N	TTL	LC04	Digital	DL	115	N74S280N	74S280N	TTL	LC25	Digital	DL
6	N74LS279F	74-279N	TTL	LC26	Digital	DL	116#	N74S373F	74LS363	TTL	LC26	Digital	DL
7	N74LS279N	74-279N	TTL	LC26	Digital	DL	117#	N74S373N	74LS363	TTL	LC26	Digital	DL
8	N74LS283D	74-283	TTL	LC15	Digital	DL	118	N82S41F	74L86N	TTL	LC05	Digital	DL
9	N74LS283N	74-283	TTL	LC15	Digital	DL	119	N82S41N	74L86N	TTL	LC05	Digital	DL
10	N74LS290D	74-290N	TTL	LC11	Digital	DL	120	N82S62A	40-101B	TTL	LC25	Digital	DL
11	N74LS290N	74-290	TTL	LC11	Digital	DL	121	N82S62F	40-101B	TTL	LC25	Digital	DL
12	N74LS293D	74-293N	TTL	LC11	Digital	DL	122	N82S62N	40-101B	TTL	LC25	Digital	DL
13	N74LS293N	74-293N	TTL	LC11	Digital	DL	123	N82S90F	74-176N	TTL	LC11	Digital	DL
14	N74LS363F	74LS363N	TTL	LC26	Digital	DL	124	N82S90N	74-176N	TTL	LC11	Digital	DL
15	N74LS363N	74LS363N	TTL	LC26	Digital	DL	125	N82S91F	74-177N	TTL	LC11	Digital	DL
16	N74LS364F	74LS364N	TTL	LC04	Digital	DL	126	N82S91N	74-177N	TTL	LC11	Digital	DL
17	N74LS364N	74LS364	TTL	LC04	Digital	DL	127	N7400F	74-00N	TTL	LC05	Digital	DL
18	N74LS373D	74LS363N	TTL	LC26	Digital	DL	128	N7400N	74-00N	TTL	LC05	Digital	DL
19	N74LS373N	74LS363N	TTL	LC26	Digital	DL	129	N7401F	74-01N	TTL	LC05	Digital	DL
20	N74LS374D	74LS364N	TTL	LC04	Digital	DL	130	N7401N	74-01N	TTL	LC05	Digital	DL
21	N74LS374N	74LS364N	TTL	LC04	Digital	DL	131	N7402F	74-02N	TTL	LC05	Digital	DL
22	N74LS375F	74LS375N	TTL	LC26	Digital	DL	132	N7402N	74-02N	TTL	LC05	Digital	DL
23	N74LS375N	74LS375N	TTL	LC26	Digital	DL	133	N7403F	74-03N	TTL	LC05	Digital	DL
24	N74LS377D	74LS377N	TTL	LC04	Digital	DL	134	N7403N	74-03N	TTL	LC05	Digital	DL
25	N74LS377N	74LS377N	TTL	LC04	Digital	DL	135	N7404F	74-04N	TTL	LC05	Digital	DL
26	N74LS378F	74LS378N	TTL	LC04	Digital	DL	136#	N7404N	74-04N	TTL	LC05	Digital	DL
27	N74LS378N	74LS378N	TTL	LC04	Digital	DL	137#	N7405F	74-05N	TTL	LC05	Digital	DL
28	N74LS386F	74L86N	TTL	LC05	Digital	DL	138#	N7405N	74-05N	TTL	LC05	Digital	DL
29	N74LS386N	74L86N	TTL	LC05	Digital	DL	139#	N7406N	74-06	TTL	LC05	Digital	DL
30	N74LS390D	74-390N	TTL	LC11	Digital	DL	140	N7408F	74-08N	TTL	LC05	Digital	DL
31	N74LS390N	74-390N	TTL	LC11	Digital	DL	141	N7408N	74-08	TTL	LC05	Digital	DL
32	N74LS393D	74-393N	TTL	LC11	Digital	DL	142	N7409F	74-09N	TTL	LC05	Digital	DL
33	N74LS393N	74-393N	TTL	LC11	Digital	DL	143	N7409N	74-09N	TTL	LC05	Digital	DL
34	N74LS490F	74-490N	TTL	LC11	Digital	DL	144	N7410F	74-10N	TTL	LC05	Digital	DL
35	N74LS490N	74-490N	TTL	LC11	Digital	DL	145	N7410N	74-10N	TTL	LC05	Digital	DL
36	N74LS568AN	74LS568	TTL	LC11	Digital	DL	146	N7411F	74-11N	TTL	LC05	Digital	DL
37	N74LS568F	74LS568N	TTL	LC11	Digital	DL	147	N7411N	74-11N	TTL	LC05	Digital	DL
38	N74LS568N	74LS568N	TTL	LC11	Digital	DL	148	N7412F	74-12N	TTL	LC05	Digital	DL
39	N74LS569F	74LS569N	TTL	LC11	Digital	DL	149	N7412N	74-12N	TTL	LC05	Digital	DL
40	N74LS569N	74LS569N	TTL	LC11	Digital	DL	150#	N7416F	74-16	TTL	LC05	Digital	DL
41	N74S00D	74-00N	TTL	LC05	Digital	DL	151#	N7416N	74-16	TTL	LC05	Digital	DL
42	N74S00N	74-00N	TTL	LC05	Digital	DL	152	N7420F	74-13N	TTL	LC05	Digital	DL
43	N74S02D	74-02N	TTL	LC05	Digital	DL	153	N7420N	74-13N	TTL	LC05	Digital	DL
44	N74S02N	74-02N	TTL	LC05	Digital	DL	154	N7421F	74H21N	TTL	LC05	Digital	DL
45	N74S03F	74-03N	TTL	LC05	Digital	DL	155	N7421N	74H21N	TTL	LC05	Digital	DL
46	N74S03N	74-03N	TTL	LC05	Digital	DL	156	N7423F	74-23N	TTL	LC05	Digital	DL
47	N74S04F	74-04N	TTL	LC05	Digital	DL	157	N7423N	74-23N	TTL	LC05	Digital	DL
48	N74S04N	74-04N	TTL	LC05	Digital	DL	158	N7425F	74-25N	TTL	LC05	Digital	DL
49	N74S05F	74-05N	TTL	LC05	Digital	DL	159	N7425N	74-25N	TTL	LC05	Digital	DL
50	N74S05N	74-05N	TTL	LC05	Digital	DL	160	N7426F	74-03N	TTL	LC05	Digital	DL
51	N74S08F	74-08N	TTL	LC05	Digital	DL	161	N7426N	74-03N	TTL	LC05	Digital	DL
52	N74S08N	74-08N	TTL	LC05	Digital	DL	162	N7427F	74-27N	TTL	LC05	Digital	DL
53	N74S09F	74-09N	TTL	LC05	Digital	DL	163	N7427N	74-27N	TTL	LC05	Digital	DL
54	N74S09N	74-09N	TTL	LC05	Digital	DL	164	N7430F	74-30N	TTL	LC05	Digital	DL
55	N74S10D	74-10N	TTL	LC05	Digital	DL	165	N7430N	74-30N	TTL	LC05	Digital	DL
56	N74S10N	74-10N	TTL	LC05	Digital	DL	166	N7432F	74-32N	TTL	LC05	Digital	DL
57	N74S11D	74-11N	TTL	LC05	Digital	DL	167	N7432N	74-32N	TTL	LC05	Digital	DL
58	N74S11N	74-11N	TTL	LC05	Digital	DL	168	N7442F	74-42N	TTL	LC06	Digital	DL
59	N74S15F	74H15N	TTL	LC05	Digital	DL	169	N7442N	74-42N	TTL	LC06	Digital	DL
60	N74S15N	74H15N	TTL	LC05	Digital	DL	170	N7443F	74-43N	TTL	LC06	Digital	DL
61	N74S20D	74-13N	TTL	LC05	Digital	DL	171	N7443N	74-43N	TTL	LC06	Digital	DL
62	N74S20N	74-13N	TTL	LC05	Digital	DL	172	N7444F	74-44N	TTL	LC06	Digital	DL
63	N74S22F	74-22N	TTL	LC05	Digital	DL	173	N7444N	74-44N	TTL	LC06	Digital	DL
64	N74S22N	74-22N	TTL	LC05	Digital	DL	174	N7450F	74-50N	TTL	LC05	Digital	DL
65	N74S32D	74-32N	TTL	LC05	Digital	DL	175	N7450N	74-50N	TTL	LC05	Digital	DL
66	N74S32N	74-32N	TTL	LC05	Digital	DL	176	N7451F	74-50N	TTL	LC05	Digital	DL
67	N74S51D	74-50N	TTL	LC05	Digital	DL	177	N7451N	74-50N	TTL	LC05	Digital	DL
68	N74S51N	74-50N	TTL	LC05	Digital	DL	178	N7453F	74-53N	TTL	LC05	Digital	DL
69	N74S64F	74S64N	TTL	LC05	Digital	DL	179	N7453N	74-53N	TTL	LC05	Digital	DL
70	N74S64N	74S64N	TTL	LC05	Digital	DL	180	N7454F	74-53N	TTL	LC05	Digital	DL
71	N74S65F	74S65N	TTL	LC05	Digital	DL	181	N7454N	74-53N	TTL	LC05	Digital	DL
72	N74S65N	74S65N	TTL	LC05	Digital	DL	182	N7460F	74-60N	TTL	LC05	Digital	DL
73	N74S74D	74-74N	TTL	LC04	Digital	DL	183	N7460N	74-60N	TTL	LC05	Digital	DL
74	N74S74N	74-74	TTL	LC04	Digital	DL	184	N7470F	74-70N	TTL	LC04	Digital	DL
75	N74S85D	74-85N	TTL	LC17	Digital	DL	185	N7470N	74-70N	TTL	LC04	Digital	DL
76	N74S85N	74-85N	TTL	LC17	Digital	DL	186	N7472F	74L71N	TTL	LC04	Digital	DL
77	N74S86D	74-86N	TTL	LC05	Digital	DL	187	N7472N	74L71N	TTL	LC04	Digital	DL
78	N74S86N	74-86N	TTL	LC05	Digital	DL	188	N7473F	74-73N	TTL	LC04	Digital	DL
79	N74S86W	54-86W	TTL	LC05	Digital	FL	189	N7473N	74-73N	TTL	LC04	Digital	DL
80	N74S112D	74LS112N	TTL	LC04	Digital	DL	190	N7474F	74-74N	TTL	LC04	Digital	DL
81	N74S112N	74LS112N	TTL	LC04	Digital	DL	191	N7474N	74-74N	TTL	LC04	Digital	DL
82	N74S113F	74LS113	TTL	LC04	Digital	DL	192	N7475F	74-75N	TTL	LC26	Digital	DL
83	N74S113N	74LS113N	TTL	LC04	Digital	DL	193	N7475N	74-75N	TTL	LC26	Digital	DL
84	N74S114F	74LS114N	TTL	LC04	Digital	DL	194	N7476F	74LS76N	TTL	LC04	Digital	DL
85	N74S114N	74LS114N	TTL	LC04	Digital	DL	195	N7476N	74LS76N	TTL	LC04	Digital	DL
86	N74S133F	74S133N	TTL	LC05	Digital	DL	196	N7480F	74-80N	TTL	LC15	Digital	DL
87	N74S133N	74S133N	TTL	LC05	Digital	DL	197	N7480N	74-80N	TTL	LC15	Digital	DL
88	N74S133W	54S133W	TTL	LC05	Digital	FL	198	N7483F	74-83	TTL	LC15	Digital	DL
89	N74S134F	74S134N	TTL	LC05	Digital	DL	199	N7483N	74-83	TTL	LC15	Digital	DL
90	N74S134N	74S134N	TTL	LC05	Digital	DL	200	N7485F	74-85N	TTL	LC17	Digital	DL
91	N74S134W	54S134W	TTL	LC05	Digital	FL	201	N7485N	74-85N	TTL	LC17	Digital	DL
92	N74S135F	74S135N	TTL	LC05	Digital	DL	202	N7486F	74-86N	TTL	LC05	Digital	DL
93	N74S135N	74S135N	TTL	LC05	Digital	DL	203	N7486N	74-86N	TTL	LC05	Digital	DL
94	N74S138F	74S138N	TTL	LC06	Digital	DL	204	N7490F	74-90N	TTL	LC11	Digital	DL
95	N74S138N	74S138N	TTL	LC06	Digital	DL	205	N7490N	74-90N	TTL	LC11	Digital	DL
96	N74S168F	74S168	TTL	LC11	Digital	DL	206	N7492F	74-92N	TTL	LC11	Digital	DL
97	N74S168N	74S168	TTL	LC11	Digital	DL	207	N7492N	74-92N	TTL	LC11	Digital	DL
98	N74S169F	74S169	TTL	LC11	Digital	DL	208	N7493F	74LS93N	TTL	LC11	Digital	DL
99	N74S169N	74S169	TTL	LC11	Digital	DL	209	N7493N	74LS93N	TTL	LC11	Digital	DL
100	N74S174F	74-174N	TTL	LC04	Digital	DL	210	N8241F	54L86	TTL	LC05	Digital	DL
101	N74S174N	74-174N	TTL	LC04	Digital	DL	211	N8241N	54L86	TTL	LC05	Digital	DL
102	N74S175F	74-175N	TTL	LC04	Digital	DL	212	N8241Q	54L86T	TTL	LC05	Digital	FL
103	N74S175N	74-175N	TTL	LC04	Digital	DL	213	N8262F	40-101B	TTL	LC25	Digital	DL
104	N74S181F	74-181	TTL	LC18	Digital	DL	214	N8262N	40-101B	TTL	LC25	Digital	

TYPE TO FUNCTIONAL EQUIVALENCE NUMBER

IN ORDER OF: (1) MFG TYPE NUMBER

LINE No.	1 MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GP E	LINE No.	1 MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GP E
1	N8281N	74-177N	TTL	LC11	Digital	DL	111	N74182F	74-182	TTL	LC19	Digital	DL
2	N8281Q	54-177W	TTL	LC11	Digital	FL	112	N74182N	74-182	TTL	LC19	Digital	DL
3	N8288F	74-176N	TTL	LC11	Digital	DL	113	N74190F	74-190N	TTL	LC11	Digital	DL
4	N8288Q	54-176W	TTL	LC11	Digital	FL	114	N74190N	74-190N	TTL	LC11	Digital	DL
5	N8290F	74-176N	TTL	LC11	Digital	DL	115	N74190W	54-190W	TTL	LC11	Digital	FP
6	N8290N	74-176N	TTL	LC11	Digital	DL	116	N74191F	74-191N	TTL	LC11	Digital	DL
7	N8290Q	54-176W	TTL	LC11	Digital	FL	117	N74191N	74-191N	TTL	LC11	Digital	DL
8	N8291F	74-177N	TTL	LC11	Digital	DL	118	N74191W	54-191W	TTL	LC11	Digital	FP
9	N8291N	74-177N	TTL	LC11	Digital	DL	119	N74192F	74-192N	TTL	LC11	Digital	DL
10	N8292F	74-176N	TTL	LC11	Digital	DL	120	N74192N	74-192N	TTL	LC11	Digital	DL
11	N8292Q	54-176W	TTL	LC11	Digital	FL	121	N74193F	74-193N	TTL	LC11	Digital	DL
12	N8293F	74-177N	TTL	LC11	Digital	DL	122	N74193N	74-193N	TTL	LC11	Digital	DL
13	N8293N	74-177N	TTL	LC11	Digital	DL	123	N74222F	74-221	TTL	LC10	Digital	DL
14	N8415A	74-22N	DTL	LC05	Digital	DL	124	N74222N	74-221	TTL	LC10	Digital	DL
15	N8415F	74-22N	DTL	LC05	Digital	DL	125	N74279F	74-279N	TTL	LC26	Digital	DL
16	N8415J	74-22N	DTL	LC05	Digital	FL	126	N74279N	74-279N	TTL	LC26	Digital	DL
17	N8455A	74-13N	TTL	LC05	Digital	DL	127	RG110CJ	54H55W	TTL	LC05	Digital	FL
18	N8455F	74-13N	TTL	LC05	Digital	DL	128	RG110CK	54H55W	TTL	LC05	Digital	FL
19	N8455J	54-20W	TTL	LC05	Digital	FL	129	RG111CJ	54H55W	TTL	LC05	Digital	FL
20	N8470A	74-10N	TTL	LC05	Digital	DL	130	RG111CJ	54H55W	TTL	LC05	Digital	FL
21	N8470F	74-10N	TTL	LC05	Digital	DL	131	RG112CJ	54H55W	TTL	LC05	Digital	FL
22	N8470J	54S10W	TTL	LC05	Digital	FL	132	RG112CK	54H55W	TTL	LC05	Digital	FL
23	N8471A	74-12N	TTL	LC05	Digital	DL	133	RG113CJ	54H55W	TTL	LC05	Digital	FL
24	N8471J	54-12W	TTL	LC05	Digital	FL	134	RG113CK	54H55W	TTL	LC05	Digital	FL
25	N8480A	74-00N	TTL	LC05	Digital	DL	135	S8H16A	74-13N	TTL	LC05	Digital	DL
26	N8480F	74-00N	TTL	LC05	Digital	DL	136	S8H16F	74-13N	TTL	LC05	Digital	DL
27	N8480J	74-00	TTL	LC05	Digital	FL	137	S8H16J	54-13W	TTL	LC05	Digital	DL
28	N8481A	74-03N	TTL	LC05	Digital	DL	138	S8H70A	74-10N	TTL	LC05	Digital	DL
29	N8481F	74-03N	TTL	LC05	Digital	DL	139	S8H70J	54S10W	TTL	LC05	Digital	DL
30	N8481J	54S03W	TTL	LC05	Digital	FL	140	S8H80A	74-00N	TTL	LC05	Digital	DL
31	N8806A	74-60N	TTL	LC05	Digital	DL	141	S8H80J	54S00W	TTL	LC05	Digital	DL
32	N8806F	74-60N	TTL	LC05	Digital	DL	142	S8T22F	74-122	TTL	LC10	Digital	DL
33	N8806J	74-60	TTL	LC05	Digital	FL	143	S8T22N	74-122	TTL	LC10	Digital	DL
34	N8808A	74-30N	TTL	LC05	Digital	DL	144	S54F00F	74-00	TTL	LC05	Digital	DL
35	N8808J	54S30W	TTL	LC05	Digital	FL	145	S54F00W	54-00	TTL	LC05	Digital	DL
36	N8815A	74-25N	TTL	LC05	Digital	DL	146	S54F02F	74-02	TTL	LC05	Digital	DL
37	N8815N	74-25N	TTL	LC05	Digital	FL	147	S54F02W	54S02	TTL	LC05	Digital	DL
38	N8824B	74-74N	TTL	LC04	Digital	DL	148	S54F04F	74-04	TTL	LC05	Digital	DL
39	N8825A	74-70N	TTL	LC04	Digital	DL	149	S54F08F	74-08	TTL	LC05	Digital	DL
40	N8825F	74-70N	TTL	LC04	Digital	DL	150	S54F08W	54S08	TTL	LC05	Digital	DL
41	N8825J	54-70W	TTL	LC04	Digital	FL	151	S54F10F	74-10	TTL	LC05	Digital	DL
42	N8828A	74-74N	TTL	LC04	Digital	DL	152	S54F10W	54-10	TTL	LC05	Digital	DL
43	N8828F	74-74N	TTL	LC04	Digital	DL	153	S54F11F	74-11	TTL	LC05	Digital	DL
44	N8828J	54-74W	TTL	LC04	Digital	FL	154	S54F11W	54S11	TTL	LC05	Digital	DL
45	N8829A	74L71N	TTL	LC04	Digital	DL	155	S54F20F	74-13	TTL	LC05	Digital	DL
46	N8829F	74L71N	TTL	LC04	Digital	DL	156	S54F20W	54-20	TTL	LC05	Digital	DL
47	N8829J	54L71T	TTL	LC04	Digital	FL	157	S54F32F	74-32	TTL	LC05	Digital	DL
48	N8840A	74-50N	TTL	LC05	Digital	DL	158	S54F32W	54-32	TTL	LC05	Digital	DL
49	N8840F	74-50N	TTL	LC05	Digital	DL	159	S54F64F	74S64	TTL	LC05	Digital	DL
50	N8840J	54-50W	TTL	LC05	Digital	FL	160	S54F64W	54S64	TTL	LC05	Digital	DL
51	N8848A	74H53N	TTL	LC05	Digital	DL	161	S54F74F	74-175	CMS	LC04	Digital	FP
52	N8848F	74H53N	TTL	LC05	Digital	DL	162	S54F74W	54-74W	TTL	LC04	Digital	FP
53	N8848J	54H53W	TTL	LC05	Digital	FL	163	S54F86F	74-86	TTL	LC05	Digital	DL
54	N8855A	54-20	TTL	LC05	Digital	DL	164	S54F86W	54-86	TTL	LC05	Digital	DL
55	N8855F	54-20	TTL	LC05	Digital	DL	165	S54F109F	74-109	TTL	LC04	Digital	DL
56	N8855J	54-20	TTL	LC05	Digital	FL	166	S54F109W	54-109	TTL	LC04	Digital	FP
57	N8870A	74-10N	TTL	LC05	Digital	DL	167	S54F280AF	54S280	TTL	LC25	Digital	DL
58	N8870F	74-10N	TTL	LC05	Digital	DL	168	S54F280AW	74S280	TTL	LC25	Digital	DL
59	N8870J	54S10W	TTL	LC05	Digital	FL	169	S54F374F	74-374	TTL	LC04	Digital	DL
60	N8875A	74-27N	TTL	LC05	Digital	DL	170	S54F521F	74LS521	TTL	LC17	Digital	DL
61	N8875F	74-27N	TTL	LC05	Digital	DL	171	S54F521W	54-521	TTL	LC17	Digital	DL
62	N8880A	74-01N	TTL	LC05	Digital	DL	172	S54F534F	74LS534	TTL	LC04	Digital	DL
63	N8880F	74-01N	TTL	LC05	Digital	DL	173	S54F534W	54LS534	TTL	LC04	Digital	FP
64	N8880J	74-01N	TTL	LC05	Digital	FL	174	S54H00F	74-00N	TTL	LC05	Digital	DL
65	N8881F	74-01N	TTL	LC05	Digital	DL	175	S54H00W	54-00W	TTL	LC05	Digital	DL
66	N8881J	74-01N	TTL	LC05	Digital	FL	176	S54H01F	74-03N	TTL	LC05	Digital	DL
67	N8881N	74-01N	TTL	LC05	Digital	DL	177	S54H01W	54-01W	TTL	LC05	Digital	DL
68	N9308F	74-116N	TTL	LC26	Digital	DL	178	S54H08F	74-08N	TTL	LC05	Digital	DL
69	N9308N	74-116N	TTL	LC26	Digital	DL	179	S54H08W	54S08	TTL	LC05	Digital	DL
70	N9334F	74-259N	TTL	LC26	Digital	DL	180	S54H10F	74-10N	TTL	LC05	Digital	DL
71	N9334N	74-259N	TTL	LC26	Digital	DL	181	S54H10W	54-10W	TTL	LC05	Digital	DL
72	N9602B	45-28	TTL	LC10	Digital	DL	182	S54H11F	74-11N	TTL	LC05	Digital	DL
73	N9602F	45-28	TTL	LC10	Digital	DL	183	S54H11W	54H11W	TTL	LC05	Digital	DL
74	N9602W	45-28	TTL	LC10	Digital	FL	184	S54H20F	74-13N	TTL	LC05	Digital	DL
75	N74100F	74-100N	TTL	LC26	Digital	DL	185	S54H20W	54-20W	TTL	LC05	Digital	DL
76	N74100N	74-100N	TTL	LC26	Digital	DL	186	S54H21F	74H21N	TTL	LC05	Digital	DL
77	N74107F	74-107N	TTL	LC04	Digital	DL	187	S54H21W	54H21W	TTL	LC05	Digital	DL
78	N74107N	74-107	TTL	LC04	Digital	DL	188	S54H22F	74-22N	TTL	LC05	Digital	DL
79	N74109F	74-109N	TTL	LC04	Digital	DL	189	S54H22W	54-22	TTL	LC05	Digital	DL
80	N74109N	74-109N	TTL	LC04	Digital	DL	190	S54H30F	74-30N	TTL	LC05	Digital	DL
81	N74109W	54-109W	TTL	LC04	Digital	FP	191	S54H30W	54-30W	TTL	LC05	Digital	DL
82	N74116F	74-116N	TTL	LC26	Digital	DL	192	S54H50F	74-50N	TTL	LC05	Digital	DL
83	N74116N	74-116N	TTL	LC26	Digital	DL	193	S54H50W	54-50W	TTL	LC05	Digital	DL
84	N74121F	74-121	TTL	LC10	Digital	DL	194	S54H51F	74-50N	TTL	LC05	Digital	DL
85	N74121N	74-121	TTL	LC10	Digital	DL	195	S54H51W	54-51W	TTL	LC05	Digital	DL
86	N74121W	54-121	TTL	LC10	Digital	FL	196	S54H52F	74H52N	TTL	LC05	Digital	DL
87	N74122F	74-122	TTL	LC10	Digital	DL	197	S54H52W	54H52W	TTL	LC05	Digital	DL
88	N74122N	74-122	TTL	LC10	Digital	DL	198	S54H53F	74H53N	TTL	LC05	Digital	DL
89	N74123F	74-123	TTL	LC10	Digital	DL	199	S54H53W	54H53W	TTL	LC05	Digital	DL
90	N74123N	74-123	TTL	LC10	Digital	DL	200	S54H54F	74H54N	TTL	LC05	Digital	DL
91#	N74156F	74-156N	TTL	LC06	Digital	DL	201	S54H54W	54H54W	TTL	LC05	Digital	DL
92#	N74156N	74-156N	TTL	LC06	Digital	DL	202	S54H55F	74H55N	TTL	LC05	Digital	DL
93	N74160F	74-160N	TTL	LC11	Digital	DL	203	S54H55W	54H55W	TTL	LC05	Digital	DL
94	N74160N	74-160N	TTL	LC11	Digital	DL	204	S54H60F	74-60N	TTL	LC05	Digital	DL
95	N74161F	74-161N	TTL	LC11	Digital	DL	205	S54H60W	54-60W	TTL	LC05	Digital	DL
96	N74161N	74-161N	TTL	LC11	Digital	DL	206	S54H61F	74H61N	TTL	LC05	Digital	DL
97	N74162F	74-162N	TTL	LC11	Digital	DL	207	S54H61W	54H61W	TTL	LC05	Digital	DL
98	N74162N	74-162N	TTL	LC11	Digital	DL	208	S54H62F	74H62N	TTL	LC05	Digital	DL
99	N74163F	74-163N	TTL	LC11	Digital	DL	209	S54H62W	54H62W	TTL	LC05	Digital	DL
100	N74163N	74-163N	TTL	LC11	Digital	DL	210	S54H71F	74H71N	TTL	LC04	Digital	DL
101#	N74173F	74-173	TTL	LC04	Digital	DL	211	S54H71W	54H71W	TTL	LC04	Digital	FP
102#	N74173N	74-173	TTL	LC04	Digital	DL	212	S54H72F	74L71N	TTL	LC04	Digital	DL
103#	N74174F	74-174N	TTL	LC04	Digital	DL	213	S54H72W	54L71T	TTL	LC04	Digital	FP
104#	N74174N	74-174N	TTL	LC04	Digital	DL	214	S54H73F					

TYPE TO FUNCTIONAL EQUIVALENCE NUMBER

IN ORDER OF: (1) MFG TYPE NUMBER

LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GP E	LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GP E
1	S54H101W	54H71W	TTL	LC04	Digital	FP	111	S54LS174F	74-174N	TTL	LC04	Digital	DL
2	S54H102F	74L71N	TTL	LC04	Digital	DL	112	S54LS174W	54-174W	TTL	LC04	Digital	FP
3	S54H102W	54L71T	TTL	LC04	Digital	FP	113	S54LS175F	74-175	TTL	LC04	Digital	DL
4	S54H103F	74H103	TTL	LC04	Digital	DL	114	S54LS175W	54-175W	TTL	LC04	Digital	FP
5	S54H103W	54H103	TTL	LC04	Digital	FP	115	S54LS181F	74-181	TTL	LC18	Digital	DL
6	S54H106F	74LS76N	TTL	LC04	Digital	DL	116	S54LS181N	74-181	TTL	LC18	Digital	DL
7	S54H106W	54LS76W	TTL	LC04	Digital	FP	117	S54LS181Q	54-181	TTL	LC18	Digital	DL
8	S54H108F	74H78	TTL	LC04	Digital	DL	118	S54LS181W	54-181	TTL	LC18	Digital	DL
9	S54H108W	54H78W	TTL	LC04	Digital	FP	119	S54LS190F	74-190N	TTL	LC11	Digital	DL
10	S54LS00F	74-00N	TTL	LC05	Digital	DL	120	S54LS190W	54-190W	TTL	LC11	Digital	FP
11	S54LS00W	54S00W	TTL	LC05	Digital	FP	121	S54LS191F	74-191N	TTL	LC11	Digital	DL
12	S54LS01F	74-01N	TTL	LC05	Digital	DL	122	S54LS191W	54-191W	TTL	LC11	Digital	FP
13	S54LS01W	54LS01W	TTL	LC05	Digital	FP	123	S54LS192F	74-192N	TTL	LC11	Digital	DL
14	S54LS02F	74-02N	TTL	LC05	Digital	DL	124	S54LS192W	54-192W	TTL	LC11	Digital	FP
15	S54LS02W	54S02W	TTL	LC05	Digital	FP	125	S54LS193F	74-193N	TTL	LC11	Digital	DL
16	S54LS03F	74-03N	TTL	LC05	Digital	DL	126	S54LS193W	54-193W	TTL	LC11	Digital	FP
17	S54LS03W	54S03W	TTL	LC05	Digital	FP	127	S54LS196F	74-176N	TTL	LC11	Digital	DL
18	S54LS04F	74-04N	TTL	LC05	Digital	DL	128	S54LS196W	54-176W	TTL	LC11	Digital	FP
19	S54LS04W	54S04W	TTL	LC05	Digital	FP	129	S54LS197F	74-177N	TTL	LC11	Digital	DL
20	S54LS08F	74-08N	TTL	LC05	Digital	DL	130	S54LS197W	54-177W	TTL	LC11	Digital	FP
21	S54LS08W	54S08W	TTL	LC05	Digital	FP	131	S54LS221F	74-221	TTL	LC10	Digital	DL
22	S54LS09F	74-09N	TTL	LC05	Digital	DL	132	S54LS221W	54-221	TTL	LC10	Digital	FP
23	S54LS09W	54S09W	TTL	LC05	Digital	FP	133	S54LS256F	74LS256N	TTL	LC26	Digital	DL
24	S54LS10F	74-10	TTL	LC05	Digital	DL	134	S54LS256W	54LS256W	TTL	LC26	Digital	FP
25	S54LS10W	54S10W	TTL	LC05	Digital	FP	135	S54LS259F	74-259N	TTL	LC26	Digital	DL
26	S54LS11F	74-11N	TTL	LC05	Digital	DL	136	S54LS259W	54-259W	TTL	LC26	Digital	FP
27	S54LS11W	54S11W	TTL	LC05	Digital	FP	137	S54LS260F	74S260N	TTL	LC05	Digital	DL
28	S54LS12F	74-12N	TTL	LC05	Digital	DL	138	S54LS260W	54S260W	TTL	LC05	Digital	FP
29	S54LS12W	54-12W	TTL	LC05	Digital	FP	139	S54LS261F	74LS261	TTL	LC16	Digital	DL
30	S54LS15F	74H15N	TTL	LC05	Digital	DL	140	S54LS261W	54LS261	TTL	LC16	Digital	FP
31	S54LS15W	54H15W	TTL	LC05	Digital	FP	141	S54LS266F	74LS266N	TTL	LC05	Digital	DL
32	S54LS20F	74-13N	TTL	LC05	Digital	DL	142	S54LS266W	54LS266W	TTL	LC05	Digital	FP
33	S54LS20W	54-13W	TTL	LC05	Digital	FP	143	S54LS273F	74-273N	TTL	LC04	Digital	DL
34	S54LS21F	74H21N	TTL	LC05	Digital	DL	144	S54LS279F	74-279N	TTL	LC26	Digital	DL
35	S54LS21W	54LS21W	TTL	LC05	Digital	FP	145	S54LS279W	54-279W	TTL	LC26	Digital	FP
36	S54LS22F	74-22N	TTL	LC05	Digital	DL	146	S54LS283F	74-283	TTL	LC15	Digital	DL
37	S54LS22W	54-22W	TTL	LC05	Digital	FP	147	S54LS283W	54-283	TTL	LC15	Digital	FP
38	S54LS26F	74-03N	TTL	LC05	Digital	DL	148	S54LS290F	74-290N	TTL	LC11	Digital	DL
39	S54LS26W	54S03W	TTL	LC05	Digital	FP	149	S54LS290W	54-290W	TTL	LC11	Digital	FP
40	S54LS27F	74-27N	TTL	LC05	Digital	DL	150	S54LS293F	74-293N	TTL	LC11	Digital	DL
41	S54LS27W	54-27W	TTL	LC05	Digital	FP	151	S54LS293W	54-293W	TTL	LC11	Digital	FP
42	S54LS30F	74-30N	TTL	LC05	Digital	DL	152	S54LS363F	74LS363N	TTL	LC26	Digital	DL
43	S54LS30W	54S30W	TTL	LC05	Digital	FP	153	S54LS364F	74LS364N	TTL	LC04	Digital	DL
44	S54LS32F	74-32N	TTL	LC05	Digital	DL	154	S54LS373F	74LS363N	TTL	LC26	Digital	DL
45	S54LS32W	54-32W	TTL	LC05	Digital	FP	155	S54LS374F	74LS364N	TTL	LC04	Digital	DL
46	S54LS42F	74-42N	TTL	LC06	Digital	DL	156	S54LS375F	74LS375N	TTL	LC26	Digital	DL
47	S54LS42W	54LS42W	TTL	LC06	Digital	FP	157	S54LS375W	54LS375W	TTL	LC26	Digital	FP
48	S54LS51F	74LS1N	TTL	LC05	Digital	DL	158	S54LS377F	74LS377N	TTL	LC04	Digital	DL
49	S54LS51W	54LS51W	TTL	LC05	Digital	FP	159	S54LS378F	74LS378N	TTL	LC04	Digital	DL
50	S54LS54F	74LS4N	TTL	LC05	Digital	DL	160	S54LS378W	54LS378W	TTL	LC04	Digital	FP
51	S54LS54W	54LS54W	TTL	LC05	Digital	FP	161	S54LS386F	74L86N	TTL	LC05	Digital	DL
52	S54LS55F	74LS5N	TTL	LC05	Digital	DL	162	S54LS386W	54LS386W	TTL	LC05	Digital	FP
53	S54LS55W	54LS55W	TTL	LC05	Digital	FP	163	S54LS390F	74-390	TTL	LC11	Digital	DL
54	S54LS73F	74-73N	TTL	LC04	Digital	DL	164	S54LS390W	54-390W	TTL	LC11	Digital	FP
55	S54LS73W	54-73W	TTL	LC04	Digital	FP	165	S54LS393F	74-393N	TTL	LC11	Digital	DL
56	S54LS74AF	74-74N	TTL	LC04	Digital	DL	166	S54LS393W	54-393W	TTL	LC11	Digital	FP
57	S54LS74AW	54S74N	TTL	LC04	Digital	FP	167	S54LS490F	74-490	TTL	LC11	Digital	DL
58	S54LS74F	74-74N	TTL	LC04	Digital	DL	168	S54LS490W	54-490W	TTL	LC11	Digital	FP
59	S54LS74W	54S74W	TTL	LC04	Digital	FP	169	S54LS568AF	74LS568	TTL	LC11	Digital	DL
60	S54LS75F	74-75N	TTL	LC26	Digital	DL	170	S54LS568F	74LS568N	TTL	LC11	Digital	FP
61	S54LS75W	54-75W	TTL	LC26	Digital	FP	171	S54LS569AF	74LS569	TTL	LC11	Digital	DL
62	S54LS76F	74LS76N	TTL	LC04	Digital	DL	172	S54LS569F	74LS569N	TTL	LC11	Digital	FP
63	S54LS76W	54LS76W	TTL	LC04	Digital	FP	173	S54S00F	74-00N	TTL	LC05	Digital	DL
64	S54LS77W	54-77W	TTL	LC26	Digital	FP	174	S54S00W	54S00W	TTL	LC05	Digital	FP
65	S54LS78F	74H78	TTL	LC04	Digital	DL	175	S54S02F	74-02N	TTL	LC05	Digital	DL
66	S54LS78W	54L78T	TTL	LC04	Digital	FP	176	S54S02W	54S02W	TTL	LC05	Digital	FP
67	S54LS83AF	74-83	TTL	LC15	Digital	DL	177	S54S03F	74-03N	TTL	LC05	Digital	DL
68	S54LS83W	54-83	TTL	LC15	Digital	FP	178	S54S03W	54S03W	TTL	LC05	Digital	FP
69	S54LS85F	74-85N	TTL	LC17	Digital	DL	179	S54S04F	74-04N	TTL	LC05	Digital	DL
70	S54LS85W	54-85W	TTL	LC17	Digital	FP	180	S54S04W	54S04W	TTL	LC05	Digital	FP
71	S54LS86F	74-86N	TTL	LC05	Digital	DL	181	S54S08F	74-08N	TTL	LC05	Digital	DL
72	S54LS86W	54-86W	TTL	LC05	Digital	FP	182	S54S08W	54S08W	TTL	LC05	Digital	FP
73	S54LS90F	74-90N	TTL	LC11	Digital	DL	183	S54S09F	74-09N	TTL	LC05	Digital	DL
74	S54LS90W	54-90W	TTL	LC11	Digital	FP	184	S54S09W	54S09W	TTL	LC05	Digital	FP
75	S54LS92F	74-92N	TTL	LC11	Digital	DL	185	S54S10F	74-10N	TTL	LC05	Digital	DL
76	S54LS92W	54-92W	TTL	LC11	Digital	FP	186	S54S10W	54S10W	TTL	LC05	Digital	FP
77	S54LS93F	74LS93N	TTL	LC11	Digital	DL	187	S54S11F	74-11N	TTL	LC05	Digital	DL
78	S54LS93W	54LS93	TTL	LC11	Digital	FP	188	S54S11W	54S11W	TTL	LC05	Digital	FP
79	S54LS107F	74-107N	TTL	LC04	Digital	DL	189	S54S15F	74H15N	TTL	LC05	Digital	DL
80	S54LS107W	54-107F	TTL	LC04	Digital	FP	190	S54S15W	54H15W	TTL	LC05	Digital	FP
81	S54LS109F	74-109N	TTL	LC04	Digital	DL	191	S54S20F	74-13N	TTL	LC05	Digital	DL
82	S54LS109W	54-109W	TTL	LC04	Digital	FP	192	S54S20W	54-13W	TTL	LC05	Digital	FP
83	S54LS112F	74LS112N	TTL	LC04	Digital	DL	193	S54S22F	74-22N	TTL	LC05	Digital	DL
84	S54LS112W	54S112W	TTL	LC04	Digital	FP	194	S54S22W	54-22W	TTL	LC05	Digital	FP
85	S54LS113F	74LS113N	TTL	LC04	Digital	DL	195	S54S32F	74-32N	TTL	LC05	Digital	DL
86	S54LS113W	54S113W	TTL	LC04	Digital	FP	196	S54S32W	54-32W	TTL	LC05	Digital	FP
87	S54LS114F	74LS114N	TTL	LC04	Digital	DL	197	S54S51F	74-50N	TTL	LC05	Digital	DL
88	S54LS114W	54S114W	TTL	LC04	Digital	FP	198	S54S51W	54S51W	TTL	LC05	Digital	FP
89	S54LS123AF	74-123	TTL	LC10	Digital	DL	199	S54S64F	54S65W	TTL	LC05	Digital	DL
90	S54LS123AW	54-123	TTL	LC10	Digital	FP	200	S54S64W	54S64W	TTL	LC05	Digital	FP
91	S54LS136F	74-136N	TTL	LC05	Digital	DL	201	S54S65F	74S65N	TTL	LC05	Digital	DL
92	S54LS136W	54-136W	TTL	LC05	Digital	FP	202	S54S65W	54S65W	TTL	LC05	Digital	FP
93#	S54LS138F	74S138	TTL	LC06	Digital	DL	203	S54S74F	74-74N	TTL	LC04	Digital	DL
94#	S54LS138W	54S138W	TTL	LC06	Digital	FP	204	S54S74W	54S74W	TTL	LC04	Digital	FP
95#	S54LS156F	74-156N	TTL	LC06	Digital	DL	205	S54S85F	74-85N	TTL	LC17	Digital	DL
96#	S54LS156W	54-156W	TTL	LC06	Digital	FP	206	S54S85W	54-85W	TTL	LC17	Digital	FP
97	S54LS160AF	74-160N	TTL	LC11	Digital	DL	207	S54S86F	74-86N	TTL	LC05	Digital	DL
98	S54LS160AW	54-160W	TTL	LC11	Digital	FP	208	S54S86W	54-86W	TTL	LC05	Digital	FP
99	S54LS161AF	54-161W	TTL	LC11	Digital	DL	209	S54S112F	74LS112	TTL	LC04	Digital	DL
100	S54LS161AW	54-161W	TTL	LC11	Digital	FP	210	S54S112W	54S112W	TTL	LC04	Digital	FP
101	S54LS162AF	74-162N	TTL	LC11	Digital	DL	211	S54S113F	74LS113N	TTL	LC04	Digital	DL
102	S54LS162AW	54-162W	TTL	LC11	Digital	FP	212	S54S113W	54S113W	TTL	LC04	Digital	FP
103	S54LS163AF	74-163N	TTL	LC11	Digital	DL	213	S54S114F	74LS114	TTL	LC04	Digital	

TYPE TO FUNCTIONAL EQUIVALENCE NUMBER

IN ORDER OF: (1) MFG TYPE NUMBER

LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GP E	LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GP E
1#	S54S138F	74S138N	TTL	LC06	Digital	DL	111	S8293F	74-177N	TTL	LC11	Digital	DL
2#	S54S138W	54S138W	TTL	LC06	Digital	DL	112	S8415A	74-22N	DTL	LC05	Digital	DL
3	S54S140A	74-13	TTL	LC05	Digital	DL	113	S8415F	74-22N	DTL	LC05	Digital	DL
4	S54S168F	74S168	TTL	LC11	Digital	DL	114	S8415J	54-22W	DTL	LC05	Digital	FL
5#	S54S169F	74S169	TTL	LC11	Digital	DL	115	S8455A	74-13N	TTL	LC05	Digital	FL
6	S54S174E	74-174	TTL	LC04	Digital	DL	116	S8455F	74-13N	TTL	LC05	Digital	DL
7	S54S174W	54-174	TTL	LC04	Digital	FP	117	S8455J	54-20W	TTL	LC05	Digital	FL
8	S54S181F	74-181	TTL	LC18	Digital	DL	118	S8470A	74-10N	TTL	LC05	Digital	FL
9	S54S181N	74-181	TTL	LC18	Digital	DL	119	S8470F	74-10N	TTL	LC05	Digital	DL
10	S54S181W	54-181	TTL	LC18	Digital	DL	120	S8470J	54S10W	TTL	LC05	Digital	FL
11	S54S182F	54-182	TTL	LC19	Digital	DL	121	S8471A	74-12N	TTL	LC05	Digital	DL
12	S54S260F	74S260N	TTL	LC05	Digital	DL	122	S8471J	54-12W	TTL	LC05	Digital	FL
13	S54S260W	54S260W	TTL	LC05	Digital	DL	123	S8481A	74-03N	TTL	LC05	Digital	DL
14	S54S280F	74S280	TTL	LC25	Digital	DL	124	S8481F	74-03N	TTL	LC05	Digital	FL
15	S54S280W	54S280W	TTL	LC25	Digital	FL	125	S8481J	54S03W	TTL	LC05	Digital	DL
16	S54S373F	74LS573	TTL	LC26	Digital	DL	126	S8806A	74-60N	TTL	LC05	Digital	DL
17	S82S62A	40-101B	TTL	LC25	Digital	DL	127	S8806F	74-60N	TTL	LC05	Digital	DL
18	S82S62F	40-101B	TTL	LC25	Digital	DL	128	S8806J	54-60W	TTL	LC05	Digital	FL
19	S5400F	74-00N	TTL	LC05	Digital	DL	129	S8808A	74-30N	TTL	LC05	Digital	DL
20	S5400W	54-00W	TTL	LC05	Digital	FL	130	S8808J	54S30W	TTL	LC05	Digital	FL
21	S5401F	74-01N	TTL	LC05	Digital	DL	131	S8815A	74-25N	TTL	LC05	Digital	DL
22	S5401W	54-01W	TTL	LC05	Digital	FL	132	S8815J	74-25N	TTL	LC05	Digital	FL
23	S5402F	74-02N	TTL	LC05	Digital	DL	133	S8824B	74-74N	TTL	LC04	Digital	DL
24	S5402W	54-02W	TTL	LC05	Digital	FL	134	S8825A	74-70N	TTL	LC04	Digital	DL
25	S5403F	74-03N	TTL	LC05	Digital	DL	135	S8825F	74-70N	TTL	LC04	Digital	DL
26	S5403W	54S03W	TTL	LC05	Digital	FL	136	S8825J	54-70W	TTL	LC04	Digital	FL
27	S5404F	74-04N	TTL	LC05	Digital	DL	137	S8828A	74-74N	TTL	LC04	Digital	DL
28	S5404W	54-04W	TTL	LC05	Digital	FL	138	S8828F	74-74N	TTL	LC04	Digital	DL
29	S5408F	74-08N	TTL	LC05	Digital	DL	139	S8828J	54-74W	TTL	LC04	Digital	FL
30	S5408W	54S08W	TTL	LC05	Digital	FL	140	S8829A	74L71N	TTL	LC04	Digital	DL
31	S5409F	74-09N	TTL	LC05	Digital	DL	141	S8829F	74L71N	TTL	LC04	Digital	DL
32	S5409W	54S09W	TTL	LC05	Digital	FL	142	S8829J	54L71T	TTL	LC04	Digital	FL
33	S5410F	74-10N	TTL	LC05	Digital	DL	143	S8840A	74-50N	TTL	LC05	Digital	DL
34	S5410W	54-10W	TTL	LC05	Digital	FL	144	S8840F	74-50N	TTL	LC05	Digital	DL
35	S5411F	74-11N	TTL	LC05	Digital	DL	145	S8840J	54-50W	TTL	LC05	Digital	FL
36	S5411W	54H11W	TTL	LC05	Digital	FL	146	S8848A	74H53N	TTL	LC05	Digital	DL
37	S5412F	74-12N	TTL	LC05	Digital	DL	147	S8848F	74H53N	TTL	LC05	Digital	DL
38	S5412W	54-12W	TTL	LC05	Digital	FL	148	S8848J	54H53W	TTL	LC05	Digital	FL
39	S5420F	74-13N	TTL	LC05	Digital	DL	149	S8855J	54-20W	TTL	LC05	Digital	FL
40	S5420W	54-20W	TTL	LC05	Digital	FL	150	S8870A	74-10N	TTL	LC05	Digital	DL
41	S5421F	74H21N	TTL	LC05	Digital	DL	151	S8870F	74-10N	TTL	LC05	Digital	DL
42	S5421W	54H21W	TTL	LC05	Digital	FL	152	S8870J	54S10W	TTL	LC05	Digital	FL
43	S5423F	74-23N	TTL	LC05	Digital	DL	153	S8875A	74-27N	TTL	LC05	Digital	DL
44	S5423W	54-23W	TTL	LC05	Digital	FL	154	S8880A	74-01N	TTL	LC05	Digital	DL
45	S5425F	74-25N	TTL	LC05	Digital	DL	155	S8880F	74-01N	TTL	LC05	Digital	DL
46	S5425W	54-25W	TTL	LC05	Digital	FL	156	S8880J	74-01N	TTL	LC05	Digital	FL
47	S5426F	74-03N	TTL	LC05	Digital	DL	157	S8881A	74-01N	TTL	LC05	Digital	DL
48	S5427F	74-27N	TTL	LC05	Digital	DL	158	S8881F	74-01N	TTL	LC05	Digital	DL
49	S5427W	54-27W	TTL	LC05	Digital	FL	159	S8881J	54-01W	TTL	LC05	Digital	DL
50	S5430F	74-30N	TTL	LC05	Digital	DL	160	S9308F	74-116N	TTL	LC26	Digital	FL
51	S5430W	54-30W	TTL	LC05	Digital	FL	161	S9308Q	54-116W	TTL	LC26	Digital	DL
52	S5432F	74-32N	TTL	LC05	Digital	DL	162	S9334F	74-259N	TTL	LC26	Digital	DL
53	S5432W	54-32W	TTL	LC05	Digital	FL	163	S9334W	54-259W	TTL	LC26	Digital	FL
54	S5442F	74-42N	TTL	LC06	Digital	DL	164	S9602B	45-28	TTL	LC10	Digital	DL
55	S5442W	54LS42W	TTL	LC06	Digital	FL	165	S9602F	45-28	TTL	LC10	Digital	DL
56	S5443F	74-43	TTL	LC06	Digital	DL	166	S9602W	45-28	TTL	LC10	Digital	FL
57	S5443W	54-43W	TTL	LC06	Digital	FL	167	S54100F	74-100N	TTL	LC26	Digital	DL
58	S5444F	74-44N	TTL	LC06	Digital	DL	168	S54100Q	54-100W	TTL	LC26	Digital	FL
59	S5444W	54-44W	TTL	LC06	Digital	FL	169	S54100W	54-100W	TTL	LC26	Digital	FL
60	S5445F	74-45N	TTL	LC06	Digital	DL	170	S54107F	74-107N	TTL	LC04	Digital	DL
61	S5445W	54-45W	TTL	LC06	Digital	FL	171	S54107W	54-107F	TTL	LC04	Digital	FP
62	S5450F	74-50N	TTL	LC05	Digital	DL	172	S54109F	74-109N	TTL	LC04	Digital	DL
63	S5450W	54-50W	TTL	LC05	Digital	FL	173	S54109W	54-109W	TTL	LC04	Digital	FP
64	S5451F	74-50N	TTL	LC05	Digital	DL	174	S54116F	74-116N	TTL	LC26	Digital	DL
65	S5451W	54-51W	TTL	LC05	Digital	FL	175	S54116W	54-116W	TTL	LC26	Digital	FL
66	S5453F	74-53	TTL	LC05	Digital	DL	176	S54121F	74-121	TTL	LC10	Digital	DL
67	S5453W	54H53W	TTL	LC05	Digital	FL	177	S54121Q	54-121	TTL	LC10	Digital	FL
68	S5454F	74-53N	TTL	LC05	Digital	DL	178	S54121W	54-121	TTL	LC10	Digital	FL
69	S5454W	54H54W	TTL	LC05	Digital	FL	179	S54122F	74-122	TTL	LC10	Digital	DL
70	S5460F	74-60N	TTL	LC05	Digital	DL	180	S54122Q	54-122	TTL	LC10	Digital	FL
71	S5460W	54-60W	TTL	LC05	Digital	FL	181	S54122W	54-122	TTL	LC10	Digital	FL
72	S5470F	74-70N	TTL	LC04	Digital	DL	182	S54123E	74-123	TTL	LC10	Digital	DL
73	S5470W	54-70W	TTL	LC04	Digital	FL	183	S54123F	74-123	TTL	LC10	Digital	DL
74	S5472F	74L71N	TTL	LC04	Digital	DL	184	S54123W	54-123	TTL	LC10	Digital	FL
75	S5472W	54L71T	TTL	LC04	Digital	FL	185	S54145E	74-45N	TTL	LC06	Digital	DL
76	S5473F	74-73N	TTL	LC04	Digital	DL	186	S54145F	74-45N	TTL	LC06	Digital	DL
77	S5473W	54-73W	TTL	LC04	Digital	FL	187	S54145R	54-45W	TTL	LC06	Digital	FL
78	S5474F	74-74N	TTL	LC04	Digital	DL	188	S54145W	54-45W	TTL	LC06	Digital	FL
79	S5474W	54-74W	TTL	LC04	Digital	FL	189	S54160F	74-160N	TTL	LC11	Digital	DL
80	S5475F	74-75N	TTL	LC26	Digital	DL	190	S54160W	54-160W	TTL	LC11	Digital	FP
81	S5475W	54-75W	TTL	LC26	Digital	FL	191	S54161F	74-161N	TTL	LC11	Digital	DL
82	S5476F	74LS76N	TTL	LC04	Digital	DL	192	S54161W	54-161W	TTL	LC11	Digital	FP
83	S5476W	54LS76W	TTL	LC04	Digital	FL	193	S54162E	74-162N	TTL	LC11	Digital	DL
84	S5477W	54-77W	TTL	LC26	Digital	FL	194	S54162F	74-162N	TTL	LC11	Digital	DL
85	S5480F	74-80N	TTL	LC15	Digital	DL	195	S54163E	74-163N	TTL	LC11	Digital	DL
86	S5480W	54-80W	TTL	LC15	Digital	FL	196	S54163R	54-163W	TTL	LC11	Digital	FP
87	S5483W	54-83	TTL	LC15	Digital	FL	197	S54163W	54-163W	TTL	LC11	Digital	FP
88	S5485F	74-85N	TTL	LC17	Digital	DL	198	S54174F	74-174N	TTL	LC04	Digital	DL
89	S5485W	54-85W	TTL	LC17	Digital	FL	199	S54174W	54-174W	TTL	LC04	Digital	FP
90	S5486F	74-86N	TTL	LC05	Digital	DL	200	S54175F	74-175	TTL	LC04	Digital	DL
91	S5486W	54-86W	TTL	LC05	Digital	FL	201	S54175W	54-175W	TTL	LC04	Digital	FP
92	S5490F	74-90N	TTL	LC11	Digital	DL	202	S54180F	74-180N	TTL	LC25	Digital	DL
93	S5490W	54-90W	TTL	LC11	Digital	FL	203	S54180W	54-180W	TTL	LC25	Digital	FL
94	S5492F	74-92N	TTL	LC11	Digital	DL	204	S54181F	74-181	TTL	LC18	Digital	DL
95	S5492W	54-92W	TTL	LC11	Digital	FL	205	S54181N	74-181	TTL	LC18	Digital	DL
96	S5493F	74LS93N	TTL	LC11	Digital	DL	206	S54181Q	54-181	TTL	LC18	Digital	DL
97	S5493W	54LS93	TTL	LC11	Digital	FL	207	S54182F	54-182	TTL	LC19	Digital	DL
98	S8241F	54L86	TTL	LC05	Digital	DL	208	S54182W	54-182	TTL	LC19	Digital	FL
99	S8241W	54L86T	TTL	LC05	Digital	FL	209	S54190F	74-190N	TTL	LC11	Digital	DL
100	S8242W	54LS266	TTL	LC05	Digital	FL	210	S54190W	54-190W	TTL	LC11	Digital	FP
101	S8262F	40-101B	TTL	LC25	Digital	DL	211	S54191F	74-191N	TTL	LC11	Digital	DL
102	S8280F	74-176N	TTL	LC11	Digital	DL	212	S54191W	54-191	TTL	LC11	Digital	DL
103	S8280W	54-176W	TTL	LC11	Digital	FL	213	S54192E	74-192N	TTL	LC11	Digital	DL
104	S8281F	74-177N	TTL	LC11	Digital	DL	214	S54192F	74-192N	TTL	LC11	Digital	DL

TYPE TO FUNCTIONAL EQUIVALENCE NUMBER

IN ORDER OF: (1) MFG TYPE NUMBER

LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GPE	LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GPE
1	S54221F	74-221	TTL	LC10	Digital	DL	111#	SFC401LSEM	74-01N	TTL	LC05	Digital	DL
2	S54221W	54-221	TTL	LC10	Digital	FL	112#	SFC401PM	54-00W	TTL	LC05	Digital	FL
3	S54279F	74-279N	TTL	LC26	Digital	DL	113#	SFC402E	74-02N	TTL	LC05	Digital	DL
4	S54279W	54-279	TTL	LC26	Digital	FL	114#	SFC402EM	74-02N	TTL	LC05	Digital	DL
5	SCL4000B	40-00B	CMS	LC05	Digital	MO	115#	SFC402ET	74-02N	TTL	LC05	Digital	DL
6	SCL4001B	40-01B	CMS	LC05	Digital	DL	116#	SFC402EV	74-02N	TTL	LC05	Digital	DL
7	SCL4001UB	40-01B	CMS	LC05	Digital	MO	117#	SFC402P	54-02W	TTL	LC05	Digital	DL
8	SCL4002B	40-02B	CMS	LC05	Digital	MO	118#	SFC402PM	54-02W	TTL	LC05	Digital	FL
9	SCL4008B	40-08B	CMS	LC15	Digital	DL	119#	SFC403E	74-03N	TTL	LC05	Digital	DL
10	SCL4011B	40-11B	CMS	LC05	Digital	MO	120#	SFC403EM	74-03N	TTL	LC05	Digital	DL
11	SCL4011UB	40-11B	CMS	LC05	Digital	MO	121#	SFC403ET	74-03N	TTL	LC05	Digital	DL
12	SCL4012B	40-12B	CMS	LC05	Digital	MO	122#	SFC403EV	74-03N	TTL	LC05	Digital	DL
13	SCL4017B	40-17B	CMS	LC11	Digital	DL	123#	SFC408E	74-08N	TTL	LC05	Digital	DL
14	SCL4018B	40-18B	CMS	LC11	Digital	DL	124#	SFC408EM	74-08N	TTL	LC05	Digital	DL
15	SCL4019BC	40-19	CMS	LC05	Digital	MO	125#	SFC408ET	74-08N	TTL	LC05	Digital	DL
16	SCL4019BD	40-19	CMS	LC05	Digital	MO	126#	SFC408EV	74-08N	TTL	LC05	Digital	DL
17	SCL4019BE	40-19	CMS	LC05	Digital	MO	127#	SFC408P	54S08W	TTL	LC05	Digital	FL
18	SCL4019BF	40-19	CMS	LC05	Digital	FL	128#	SFC408PM	54S08W	TTL	LC05	Digital	FL
19	SCL4019BH	40-19	CMS	LC05	Digital	CH	129#	SFC409E	74-09N	TTL	LC05	Digital	DL
20	SCL4020B	40-20B	CMS	LC11	Digital	DL	130#	SFC409EM	74-09N	TTL	LC05	Digital	DL
21	SCL4022B	40-22B	CMS	LC11	Digital	DL	131#	SFC409ET	74-09N	TTL	LC05	Digital	DL
22	SCL4023B	40-23B	CMS	LC05	Digital	MO	132#	SFC409EV	74-09N	TTL	LC05	Digital	DL
23	SCL4024B	40-24B	CMS	LC11	Digital	DL	133#	SFC409P	54S09W	TTL	LC05	Digital	FL
24	SCL4025B	40-25B	CMS	LC05	Digital	MO	134#	SFC409PM	54S09W	TTL	LC05	Digital	FL
25	SCL4027B	40-27B	CMS	LC04	Digital	DL	135#	SFC410E	74-10N	TTL	LC05	Digital	DL
26	SCL4028B	40-28B	CMS	LC06	Digital	DL	136#	SFC410EM	74-10N	TTL	LC05	Digital	DL
27	SCL4029B	40-29B	CMS	LC11	Digital	DL	137#	SFC410ET	74-10N	TTL	LC05	Digital	DL
28	SCL4030B	74L86N	CMS	LC05	Digital	MO	138#	SFC410HEM	74-10N	TTL	LC05	Digital	DL
29	SCL4042B	40-42B	CMS	LC26	Digital	DL	139#	SFC410HE	74-10N	TTL	LC05	Digital	DL
30	SCL4043B	40-43B	CMS	LC26	Digital	DL	140#	SFC410HP	54-10W	TTL	LC05	Digital	FL
31	SCL4044B	40-44B	CMS	LC26	Digital	DL	141#	SFC410HPM	54-10W	TTL	LC05	Digital	DL
32	SCL4047B	40-47B	CMS	LC12	Digital	DL	142#	SFC410LE	74-10N	TTL	LC05	Digital	DL
33	SCL4068B	40-68B	CMS	LC05	Digital	DL	143#	SFC410LEM	74-10N	TTL	LC05	Digital	DL
34	SCL4069UB	74-03N	CMS	LC05	Digital	MO	144#	SFC410LPM	74-10N	TTL	LC05	Digital	DL
35	SCL4070B	74L86N	CMS	LC05	Digital	MO	145#	SFC410PM	54-10	TTL	LC05	Digital	ZB
36	SCL4071B	40-71B	CMS	LC05	Digital	MO	146#	SFC411HE	74-10N	TTL	LC05	Digital	DL
37	SCL4072B	40-72B	CMS	LC05	Digital	MO	147#	SFC411HEM	74-10N	TTL	LC05	Digital	DL
38	SCL4073B	40-73B	CMS	LC05	Digital	MO	148#	SFC411HP	54-10W	TTL	LC05	Digital	FL
39	SCL4075B	40-75B	CMS	LC05	Digital	DL	149#	SFC411HPM	54-10W	TTL	LC05	Digital	FL
40	SCL4076B	74-173N	CMS	LC04	Digital	MO	150#	SFC420E	74-13N	TTL	LC05	Digital	DL
41	SCL4077B	74L5266N	CMS	LC05	Digital	MO	151#	SFC420EM	74-13N	TTL	LC05	Digital	DL
42	SCL4078B	40-78B	CMS	LC05	Digital	MO	152#	SFC420ET	74-13N	TTL	LC05	Digital	DL
43	SCL4081B	40-81B	CMS	LC05	Digital	MO	153#	SFC420HE	74-13N	TTL	LC05	Digital	DL
44	SCL4082B	40-82B	CMS	LC05	Digital	MO	154#	SFC420HEM	74-13N	TTL	LC05	Digital	DL
45	SCL4085B	40-85B	CMS	LC05	Digital	DL	155#	SFC420LE	74-13N	TTL	LC05	Digital	DL
46	SCL4086B	40-86B	CMS	LC05	Digital	DL	156#	SFC420LEM	74-13N	TTL	LC05	Digital	DL
47	SCL4093BC	40-11B	CMS	LC05	Digital	MO	157#	SFC420PM	54-20W	TTL	LC05	Digital	ZB
48	SCL4093BD	40-11B	CMS	LC05	Digital	DL	158#	SFC430E	74-30N	TTL	LC05	Digital	DL
49	SCL4093BE	40-11B	CMS	LC05	Digital	MO	159#	SFC430EM	74-30N	TTL	LC05	Digital	DL
50	SCL4093BF	40-11B	CMS	LC05	Digital	FL	160#	SFC430ET	74-30N	TTL	LC05	Digital	DL
51	SCL4093BH	40-11B	CMS	LC05	Digital	CH	161#	SFC430HE	74-30N	TTL	LC05	Digital	DL
52	SCL4099B	40-99	CMS	LC26	Digital	MO	162#	SFC430LE	74-30N	TTL	LC05	Digital	DL
53	SCL4160B	74-160N	CMS	LC11	Digital	DL	163#	SFC430LEM	74-30N	TTL	LC05	Digital	DL
54	SCL4161B	74-161	CMS	LC11	Digital	DL	164#	SFC437E	74-00N	TTL	LC05	Digital	DL
55	SCL4162B	74-162	CMS	LC11	Digital	DL	165#	SFC437EM	74-00N	TTL	LC05	Digital	DL
56	SCL4163B	74-163	CMS	LC11	Digital	DL	166#	SFC437ET	74-00N	TTL	LC05	Digital	DL
57	SCL4174B	74-174N	CMS	LC04	Digital	DL	167#	SFC438E	74-03N	TTL	LC05	Digital	DL
58	SCL4192B	74-192	CMS	LC11	Digital	MO	168#	SFC438EM	74-03N	TTL	LC05	Digital	DL
59	SCL4193B	74-193	CMS	LC11	Digital	MO	169#	SFC438ET	74-03N	TTL	LC05	Digital	DL
60	SCL4402B	44-02B	CMS	LC05	Digital	DL	170#	SFC440E	74-13N	TTL	LC05	Digital	DL
61	SCL4412B	44-12B	CMS	LC05	Digital	DL	171#	SFC440EM	74-13N	TTL	LC05	Digital	DL
62	SCL4488B	44-28B	CMS	LC06	Digital	MO	172#	SFC440ET	74-13N	TTL	LC05	Digital	DL
63	SCL4489UB	40-09A	CMS	LC05	Digital	MO	173#	SFC440HE	74-13N	TTL	LC05	Digital	DL
64	SCL4508B	45-08B	CMS	LC26	Digital	DL	174#	SFC440HEM	74-13N	TTL	LC05	Digital	DL
65	SCL4510B	45-10B	CMS	LC11	Digital	DL	175#	SFC442E	74-42N	TTL	LC06	Digital	DL
66	SCL4514B	45-14B	CMS	LC06	Digital	DL	176#	SFC442EM	74-42N	TTL	LC06	Digital	DL
67	SCL4516B	45-16B	CMS	LC11	Digital	DL	177#	SFC442ET	74-42N	TTL	LC06	Digital	DL
68	SCL4518B	45-18B	CMS	LC11	Digital	DL	178#	SFC450EM	74-50N	TTL	LC05	Digital	DL
69	SCL4520B	45-20B	CMS	LC11	Digital	DL	179#	SFC451EM	74-50N	TTL	LC05	Digital	DL
70	SCL4522B	45-22B	CMS	LC11	Digital	DL	180#	SFC451ET	74-50N	TTL	LC05	Digital	DL
71	SCL4526B	45-26B	CMS	LC11	Digital	DL	181#	SFC451HE	74-50N	TTL	LC05	Digital	DL
72	SCL4531B	45-31B	CMS	LC26	Digital	DL	182#	SFC451HEM	74-50N	TTL	LC05	Digital	DL
73	SCL4555B	45-55B	CMS	LC06	Digital	DL	183#	SFC451HPM	54-51W	TTL	LC05	Digital	FL
74	SCL4556B	74S139N	CMS	LC06	Digital	DL	184#	SFC451LE	74-50N	TTL	LC05	Digital	DL
75	SCL4581B	74-181N	CMS	LC18	Digital	DL	185#	SFC451LEM	74-50N	TTL	LC05	Digital	DL
76	SCL4582B	74-182N	CMS	LC19	Digital	DL	186#	SFC453E	74-53N	TTL	LC05	Digital	DL
77	SCL4585B	45-85B	CMS	LC17	Digital	DL	187#	SFC453EM	74-53N	TTL	LC05	Digital	DL
78	SFC400E	74-00N	TTL	LC05	Digital	DL	188#	SFC453ET	74-53N	TTL	LC05	Digital	DL
79	SFC400EM	74-00N	TTL	LC05	Digital	DL	189#	SFC454E	74-53N	TTL	LC05	Digital	DL
80	SFC400ET	74-00N	TTL	LC05	Digital	DL	190#	SFC454EM	74-53N	TTL	LC05	Digital	DL
81	SFC400HE	74-00N	TTL	LC05	Digital	DL	191#	SFC454HE	74H54N	TTL	LC05	Digital	DL
82	SFC400HEM	74-00N	TTL	LC05	Digital	DL	192#	SFC454HEM	74H54N	TTL	LC05	Digital	DL
83	SFC400HJM	74-00N	TTL	LC05	Digital	DL	193#	SFC454HPM	54H54W	TTL	LC05	Digital	FL
84	SFC400HKM	74-00N	TTL	LC05	Digital	DL	194#	SFC454LE	74L54N	TTL	LC05	Digital	DL
85	SFC400HPM	54-00W	TTL	LC05	Digital	FL	195#	SFC454LEM	74L54N	TTL	LC05	Digital	DL
86	SFC400JM	74-00N	TTL	LC05	Digital	DL	196#	SFC460EM	54-60	TTL	LC05	Digital	DL
87	SFC400KM	74-00N	TTL	LC05	Digital	DL	197#	SFC460ET	54-60	TTL	LC05	Digital	DL
88	SFC400LE	74-00N	TTL	LC05	Digital	DL	198#	SFC460PM	54-60W	TTL	LC05	Digital	ZB
89	SFC400LEM	74-00N	TTL	LC05	Digital	DL	199#	SFC472E	74L71N	TTL	LC04	Digital	DL
90	SFC400LJM	74-00N	TTL	LC05	Digital	DL	200#	SFC472EM	74L71N	TTL	LC04	Digital	DL
91	SFC400LKM	74-00N	TTL	LC05	Digital	DL	201#	SFC472ET	74L71N	TTL	LC04	Digital	DL
92	SFC400LPM	54-00W	TTL	LC05	Digital	FL	202#	SFC472LE	74L71N	TTL	LC04	Digital	DL
93	SFC400LSE	74-00N	TTL	LC05	Digital	DL	203#	SFC472LEM	74L71N	TTL	LC04	Digital	DL
94	SFC400LSEM	74-00N	TTL	LC05	Digital	DL	204#	SFC473E	74-73N	TTL	LC04	Digital	DL
95	SFC400PM	54-00W	TTL	LC05	Digital	FL	205#	SFC473EM	74-73N	TTL	LC04	Digital	DL
96	SFC400SE	74-00N	TTL	LC05	Digital	DL	206#	SFC473ET	74-73N	TTL	LC04	Digital	DL
97	SFC400SKM	74-00N	TTL	LC05	Digital	DL	207#	SFC473LE	74-73N	TTL	LC04	Digital	DL
98	SFC400SKM	74-00N	TTL	LC05	Digital	DL	208#	SFC473LEM	74-73N	TTL	LC04	Digital	DL
99	SFC401AE	74-03N	TTL	LC05	Digital	DL	209#	SFC473PM	74-73N	TTL	LC04	Digital	ZB
100	SFC401E	74-01N	TTL	LC05	Digital	DL	210#	SFC474E	74-74N	TTL	LC04	Digital	DL
101	SFC401EM	74-01N	TTL	LC05	Digital	DL	211#	SFC474EM	74-74N	TTL	LC04	Digital	DL
102	SFC401ET	74-01N	TTL	LC05	Digital	DL	212#	SFC474ET	74-74N	TTL	LC04	Digital	DL
103	SFC401HE	74-03N	TTL	LC05	Digital	DL	213#	SFC474HE	74-74N	TTL	LC04	Digital	DL
104	SFC401HEM	74-03N	TTL	LC05	Digital	DL	214#	SFC474HEM	74-74N	TTL	LC04	Digital	DL
105	SFC401HJM	74-03N	TTL										

TYPE TO FUNCTIONAL EQUIVALENCE NUMBER

IN ORDER OF: (1) MFG TYPE NUMBER

LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GP E	LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GP E
1#	SFC475ET	74-75N	TTL	LC26	Digital	DL	111	SN54ALS08J#	74-08	TTL	LC05	Digital	DL
2#	SFC475JM	74-75	TTL	LC26	Digital	DL	112	SN54ALS08J#mil	74-09N	TTL	LC05	Digital	DL
3#	SFC475KM	74-75N	TTL	LC26	Digital	DL	113	SN54ALS08N	74-08	TTL	LC05	Digital	DL
4#	SFC476E	74LS76N	TTL	LC04	Digital	DL	114	SN54ALS09J	74-09	TTL	LC05	Digital	DL
5#	SFC476EM	74LS76N	TTL	LC04	Digital	DL	115	SN54ALS09J#	74-09	TTL	LC05	Digital	DL
6#	SFC476ET	74LS76N	TTL	LC04	Digital	DL	116	SN54ALS09N	74-09	TTL	LC05	Digital	DL
7#	SFC483ALSE	74-83	TTL	LC15	Digital	DL	117	SN54ALS10J#	74-10	TTL	LC05	Digital	DL
8#	SFC483ALSEM	74-83	TTL	LC15	Digital	DL	118	SN54ALS10J#mil	54-12	TTL	LC05	Digital	DL
9#	SFC483E	74-83	TTL	LC15	Digital	DL	119	SN54ALS10N	74-10	TTL	LC05	Digital	DL
10#	SFC483EM	74-83	TTL	LC15	Digital	DL	120	SN54ALS11J#	74-11	TTL	LC05	Digital	DL
11#	SFC483ET	74-83	TTL	LC15	Digital	DL	121	SN54ALS11J#mil	74-11	TTL	LC05	Digital	DL
12#	SFC483JM	74-83	TTL	LC15	Digital	DL	122	SN54ALS11N	74-11	TTL	LC05	Digital	DL
13#	SFC483KM	74-83	TTL	LC15	Digital	DL	123	SN54ALS12J	74-12	TTL	LC05	Digital	DL
14#	SFC485E	74-85N	TTL	LC17	Digital	DL	124	SN54ALS12N	74-12	TTL	LC05	Digital	DL
15#	SFC485EM	74-85N	TTL	LC17	Digital	DL	125	SN54ALS15J	74H15	TTL	LC05	Digital	DL
16#	SFC485ET	74-85N	TTL	LC17	Digital	DL	126	SN54ALS15J#	74-15	TTL	LC05	Digital	DL
17#	SFC485JM	74-85N	TTL	LC17	Digital	DL	127	SN54ALS15N	74-15	TTL	LC05	Digital	DL
18#	SFC485KM	74-85N	TTL	LC17	Digital	DL	128	SN54ALS20J#	74-20	TTL	LC05	Digital	DL
19#	SFC486E	74-86N	TTL	LC05	Digital	DL	129	SN54ALS20N	74-20	TTL	LC05	Digital	DL
20#	SFC486EM	74-86N	TTL	LC05	Digital	DL	130	SN54ALS21J#	74-21	TTL	LC05	Digital	DL
21#	SFC486ET	74-86N	TTL	LC05	Digital	DL	131	SN54ALS22J#	74-22	TTL	LC05	Digital	DL
22#	SFC486PM	54-86W	TTL	LC05	Digital	FL	132	SN54ALS22J#mil	74-22	TTL	LC05	Digital	DL
23#	SFC490E	74-90N	TTL	LC11	Digital	DL	133	SN54ALS27J	74-27	TTL	LC05	Digital	DL
24#	SFC490EM	74-90N	TTL	LC11	Digital	DL	134	SN54ALS27N	74-27	TTL	LC05	Digital	DL
25#	SFC490ET	74-90N	TTL	LC11	Digital	DL	135	SN54ALS33J#mil	74-33	TTL	LC05	Digital	DL
26#	SFC490PM	54-90W	TTL	LC11	Digital	FL	136	SN54ALS74J	74-74	TTL	LC04	Digital	DL
27#	SFC492E	74-92J	TTL	LC11	Digital	DL	137	SN54ALS74J#mil	74-74	TTL	LC04	Digital	DL
28#	SFC492EM	74-92N	TTL	LC11	Digital	DL	138	SN54ALS74N	74-74	TTL	LC04	Digital	DL
29#	SFC492ET	74-92N	TTL	LC11	Digital	DL	139	SN54ALS74W	54S74W	TTL	LC04	Digital	DL
30#	SFC492PM	54-92	TTL	LC11	Digital	FL	140	SN54ALS109J#mil	74-109	TTL	LC04	Digital	DL
31#	SFC493E	74LS93N	TTL	LC11	Digital	DL	141	SN54ALS160J	74-160	TTL	LC11	Digital	DL
32#	SFC493EM	74LS93N	TTL	LC11	Digital	DL	142	SN54ALS160N	74-160	TTL	LC11	Digital	DL
33#	SFC493ET	74LS93N	TTL	LC11	Digital	DL	143	SN54ALS161J	74-161	TTL	LC11	Digital	DL
34#	SFC493LE	74L93N	TTL	LC11	Digital	DL	144	SN54ALS161N	74-161	TTL	LC11	Digital	DL
35#	SFC493LEM	74L93N	TTL	LC11	Digital	DL	145	SN54ALS162J	74-162	TTL	LC11	Digital	DL
36#	SFC493PM	54LS93	TTL	LC11	Digital	FL	146	SN54ALS162N	74-162	TTL	LC11	Digital	DL
37	SFC946E	74-00N	DTL	LC05	Digital	DL	147	SN54ALS163J	74-163	TTL	LC11	Digital	DL
38	SFC962E	74-10N	DTL	LC05	Digital	DL	148	SN54ALS163N	74-163	TTL	LC11	Digital	DL
39#	SFC4107E	74-107N	TTL	LC04	Digital	DL	149	SN54ALS190J	74-190	TTL	LC11	Digital	DL
40#	SFC4107EM	74-107N	TTL	LC04	Digital	DL	150	SN54ALS190N	74-190	TTL	LC11	Digital	DL
41#	SFC4107ET	74-107N	TTL	LC04	Digital	DL	151	SN54ALS191J	74-191	TTL	LC11	Digital	DL
42#	SFC4122E	74-122	TTL	LC10	Digital	DL	152	SN54ALS191N	74-191	TTL	LC11	Digital	DL
43#	SFC4122EM	74-122	TTL	LC10	Digital	DL	153	SN54ALS192J	74-192	TTL	LC11	Digital	DL
44#	SFC4122ET	74-122	TTL	LC10	Digital	DL	154	SN54ALS192N	74-192	TTL	LC11	Digital	DL
45#	SFC4122PM	54-122	TTL	LC10	Digital	FL	155	SN54ALS193J	74-193	TTL	LC11	Digital	DL
46#	SFC4123E	74-123	TTL	LC10	Digital	DL	156	SN54ALS193N	74-193	TTL	LC11	Digital	DL
47#	SFC4123EM	74-123	TTL	LC10	Digital	DL	157	SN54ALS1020J#mil	74-22N	TTL	LC05	Digital	DL
48#	SFC4123ET	74-123	TTL	LC10	Digital	DL	158	SN54AS882JT(A)	74AS882	TTL	LC19	Digital	DL
49#	SFC4141E	74-41N	TTL	LC06	Digital	DL	159	SN54AS882NT(A)	74AS882	TTL	LC19	Digital	DL
50#	SFC4154E	74-154N	TTL	LC06	Digital	DL	160	SN54H00J	74-00N	TTL	LC05	Digital	DL
51#	SFC4154EM	74-154N	TTL	LC06	Digital	DL	161	SN54H00W	54-00W	TTL	LC05	Digital	MO
52#	SFC4154ET	74-154N	TTL	LC06	Digital	DL	162	SN54H01J	74-03N	TTL	LC05	Digital	DL
53#	SFC4155E	74-155N	TTL	LC06	Digital	DL	163	SN54H01W	54-01W	TTL	LC05	Digital	MO
54#	SFC4155EM	74-155N	TTL	LC06	Digital	DL	164	SN54H10J	74-10N	TTL	LC05	Digital	DL
55#	SFC4155ET	74-155N	TTL	LC06	Digital	DL	165	SN54H10W	54-10W	TTL	LC05	Digital	MO
56#	SFC4156E	74-156N	TTL	LC06	Digital	DL	166	SN54H11J	74-11N	TTL	LC05	Digital	DL
57#	SFC4156EM	74-156N	TTL	LC06	Digital	DL	167	SN54H11W	54H11W	TTL	LC05	Digital	MO
58#	SFC4156ET	74-156N	TTL	LC06	Digital	DL	168	SN54H15J	74H15N	TTL	LC05	Digital	DL
59#	SFC4180E	74-180N	TTL	LC25	Digital	DL	169	SN54H15W	54H15W	TTL	LC05	Digital	MO
60#	SFC4180EM	74-180N	TTL	LC25	Digital	DL	170	SN54H20J	74-13N	TTL	LC05	Digital	DL
61#	SFC4180ET	74-180N	TTL	LC25	Digital	DL	171	SN54H20W	54-20W	TTL	LC05	Digital	MO
62#	SFC4180JM	74-180N	TTL	LC25	Digital	DL	172	SN54H21J	74H21N	TTL	LC05	Digital	DL
63#	SFC4180KM	74-180N	TTL	LC25	Digital	DL	173	SN54H21W	54H21W	TTL	LC05	Digital	MO
64#	SFC4180PM	54-180W	TTL	LC25	Digital	FL	174	SN54H22J	74-22N	TTL	LC05	Digital	DL
65#	SFC4181E	74-181	TTL	LC18	Digital	DL	175	SN54H22W	54H22W	TTL	LC05	Digital	MO
66#	SFC4181EM	74-181	TTL	LC18	Digital	DL	176	SN54H30J	74-30N	TTL	LC05	Digital	DL
67#	SFC4181ET	74-181	TTL	LC18	Digital	DL	177	SN54H30W	54-30W	TTL	LC05	Digital	MO
68#	SFC4181JM	74-181	TTL	LC18	Digital	DL	178	SN54H40J	74-13N	TTL	LC05	Digital	DL
69#	SFC4181KM	74-181	TTL	LC18	Digital	DL	179	SN54H40W	54-40W	TTL	LC05	Digital	MO
70#	SFC4192E	74-192N	TTL	LC11	Digital	DL	180	SN54H50J	74-50N	TTL	LC05	Digital	DL
71#	SFC4192EM	74-192N	TTL	LC11	Digital	DL	181	SN54H50W	54-50W	TTL	LC05	Digital	MO
72#	SFC4192ET	74-192N	TTL	LC11	Digital	DL	182	SN54H51J	74L51	TTL	LC05	Digital	DL
73#	SFC4193E	74-193N	TTL	LC11	Digital	DL	183	SN54H51W	54-51W	TTL	LC05	Digital	MO
74#	SFC4193EM	74-193N	TTL	LC11	Digital	DL	184	SN54H52J	74H52N	TTL	LC05	Digital	DL
75#	SFC4193ET	74-193N	TTL	LC11	Digital	DL	185	SN54H52W	54H52W	TTL	LC05	Digital	MO
76#	SFC4283LSE	74-283	TTL	LC15	Digital	DL	186	SN54H53J	74H53N	TTL	LC05	Digital	DL
77#	SFC4283LSEM	74-283	TTL	LC15	Digital	DL	187	SN54H53W	74H53N	TTL	LC05	Digital	DL
78#	SFF24000AEV	40-00B	CMS	LC05	Digital	DL	188	SN54H54J	74H54N	TTL	LC05	Digital	DL
79#	SFF24000AKM	40-00B	CMS	LC05	Digital	DL	189	SN54H54W	54H54W	TTL	LC05	Digital	MO
80#	SFF24001AEV	40-01B	CMS	LC05	Digital	DL	190	SN54H55J	74H55N	TTL	LC05	Digital	DL
81#	SFF24001AKM	40-01B	CMS	LC05	Digital	DL	191	SN54H55W	54H55W	TTL	LC05	Digital	MO
82#	SFF24002AKM	40-02B	CMS	LC05	Digital	DL	192	SN54H60J	74-60N	TTL	LC05	Digital	DL
83#	SFF24011AEV	40-11B	CMS	LC05	Digital	DL	193	SN54H60W	54-60W	TTL	LC05	Digital	MO
84#	SFF24011AKM	40-11B	CMS	LC05	Digital	DL	194	SN54H61J	74H61	TTL	LC05	Digital	DL
85#	SFF24012AEV	40-12B	CMS	LC05	Digital	DL	195	SN54H61W	54H61W	TTL	LC05	Digital	MO
86#	SFF24012AKM	40-12B	CMS	LC05	Digital	DL	196	SN54H62J	74H62N	TTL	LC05	Digital	DL
87#	SFF24017AEV	40-17B	CMS	LC11	Digital	DL	197	SN54H62W	54H62W	TTL	LC05	Digital	MO
88#	SFF24017AKM	40-17B	CMS	LC11	Digital	DL	198	SN54H71J	74H71N	TTL	LC04	Digital	DL
89#	SFF24018AEV	40-18B	CMS	LC11	Digital	DL	199	SN54H71W	54H71W	TTL	LC04	Digital	MO
90#	SFF24018AKM	40-18B	CMS	LC11	Digital	DL	200	SN54H72J	74L71N	TTL	LC04	Digital	DL
91#	SFF24023AEV	40-23B	CMS	LC05	Digital	DL	201	SN54H72W	54L71T	TTL	LC04	Digital	MO
92#	SFF24023AKM	40-23B	CMS	LC05	Digital	DL	202	SN54H73J	74-73N	TTL	LC04	Digital	DL
93#	SFF24024AEV	40-24B	MOS	LC11	Digital	DL	203	SN54H73W	54-73W	TTL	LC04	Digital	MO
94#	SFF24024AKM	40-24B	CMS	LC11	Digital	DL	204	SN54H74J	74-74N	TTL	LC04	Digital	DL
95#	SFF24025AEV	40-25B	CMS	LC05	Digital	DL	205	SN54H74W	54-74W	TTL	LC04	Digital	MO
96#	SFF24025AKM	40-25B	CMS	LC05	Digital	DL	206	SN54H76J	74LS76N	TTL	LC04	Digital	DL
97#	SFF24027AEV	40-27B	CMS	LC04	Digital	DL	207	SN54H76W	54LS76N	TTL	LC04	Digital	MO
98#	SFF24027AKM	40-27B	CMS	LC04	Digital	DL	208	SN54H78J	74H78N	TTL	LC04	Digital	DL
99#	SFF24029AEV	40-29B	CMS	LC11	Digital	DL	209	SN54H78W	54H78W	TTL	LC04	Digital	MO
100#	SFF24029AKM	40-29B	CMS	LC11	Digital	DL	210	SN54H87J	74H87N	MON	LC27	Digital	DL
101#	SFF24030AEV	74L86N	CMS	LC05	Digital	DL	211	SN54H87W	54H87W	MON	LC27	Digital	MO
102#	SFF24030AKM												

TYPE TO FUNCTIONAL EQUIVALENCE NUMBER

IN ORDER OF: (1) MFG TYPE NUMBER

LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GPE	LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GPE
1	SN54H108W	54H78W	TTL	LC04	Digital	MO	111	SN54LS75W	54-75W	TTL	LC26	Digital	MO
2	SN54H183J	74H183N	TTL	LC15	Digital	DL	112	SN54LS76AJ	74LS76N	TTL	LC04	Digital	DL
3	SN54H183W	54H183W	TTL	LC15	Digital	MO	113	SN54LS76AW	54LS76W	TTL	LC04	Digital	MO
4	SN54L00J	74-00N	TTL	LC05	Digital	DL	114	SN54LS77J	74LS77N	TTL	LC26	Digital	DL
5	SN54L00W	54-00W	TTL	LC05	Digital	FL	115	SN54LS77W	54-77W	TTL	LC26	Digital	MO
6	SN54L01W	54-01W	TTL	LC05	Digital	FL	116	SN54LS78AJ	74L78N	TTL	LC04	Digital	DL
7	SN54L02J	74-02N	TTL	LC05	Digital	DL	117	SN54LS78AW	54L78T	TTL	LC04	Digital	MO
8	SN54L02W	54-02W	TTL	LC05	Digital	FL	118	SN54LS83AJ	74-83	TTL	LC15	Digital	DL
9	SN54L03J	74-03N	TTL	LC05	Digital	DL	119	SN54LS83AW	54-83	TTL	LC15	Digital	MO
10	SN54L10J	74-10N	TTL	LC05	Digital	DL	120	SN54LS85J	74-85N	TTL	LC17	Digital	DL
11	SN54L10W	54-10W	TTL	LC05	Digital	FL	121	SN54LS85W	54-85W	TTL	LC17	Digital	MO
12	SN54L20J	74-13N	TTL	LC05	Digital	DL	122	SN54LS86J	74-86N	TTL	LC05	Digital	DL
13	SN54L20W	54-20W	TTL	LC05	Digital	FL	123	SN54LS86W	54-86	TTL	LC05	Digital	MO
14	SN54L30J	74-30N	TTL	LC05	Digital	DL	124	SN54LS90J	74-90N	TTL	LC11	Digital	DL
15	SN54L30W	54S30W	TTL	LC05	Digital	FL	125	SN54LS90W	54-90W	TTL	LC11	Digital	MO
16	SN54L42J	74-42N	TTL	LC06	Digital	DL	126	SN54LS92J	74-92N	TTL	LC11	Digital	DL
17	SN54L51J	74L51N	TTL	LC05	Digital	DL	127	SN54LS92W	54-92W	TTL	LC11	Digital	MO
18	SN54L51W	54L51T	TTL	LC05	Digital	DL	128	SN54LS93J	74LS93N	TTL	LC11	Digital	DL
19	SN54L54J	74L54N	TTL	LC05	Digital	DL	129	SN54LS93W	54LS93	TTL	LC11	Digital	MO
20	SN54L54W	54L54T	TTL	LC05	Digital	FL	130	SN54LS107AJ	74-107	TTL	LC04	Digital	DL
21	SN54L55J	74L55N	TTL	LC05	Digital	DL	131	SN54LS107AW	54-107F	TTL	LC04	Digital	MO
22	SN54L55W	54L55T	TTL	LC05	Digital	FL	132	SN54LS109AJ	74-109N	TTL	LC04	Digital	DL
23	SN54L71J	74L71N	TTL	LC04	Digital	DL	133	SN54LS109AW	54-109W	TTL	LC04	Digital	MO
24	SN54L71W	54L71T	TTL	LC04	Digital	FP	134	SN54LS112AJ	74LS112N	TTL	LC04	Digital	DL
25	SN54L72J	74L72N	TTL	LC04	Digital	DL	135	SN54LS112AW	54S112W	TTL	LC04	Digital	MO
26	SN54L72W	54L72T	TTL	LC04	Digital	FP	136	SN54LS113AJ	74LS113N	TTL	LC04	Digital	DL
27	SN54L73J	74-73N	TTL	LC04	Digital	DL	137	SN54LS113AW	54S113W	TTL	LC04	Digital	MO
28	SN54L73W	54-73W	TTL	LC04	Digital	FP	138	SN54LS114AJ	74LS114N	TTL	LC04	Digital	DL
29	SN54L74J	74-74N	TTL	LC04	Digital	DL	139	SN54LS114AW	54S114W	TTL	LC04	Digital	MO
30	SN54L74W	54-74W	TTL	LC04	Digital	FP	140	SN54LS122J	74-122	TTL	LC10	Digital	DL
31	SN54L75J	74-75N	TTL	LC26	Digital	DL	141	SN54LS122W	54-122	TTL	LC10	Digital	MO
32	SN54L77W	54-77W	TTL	LC26	Digital	FL	142	SN54LS123J	74-123	TTL	LC10	Digital	DL
33	SN54L78J	74L78N	TTL	LC04	Digital	DL	143	SN54LS123W	54-123	TTL	LC10	Digital	MO
34	SN54L85J	74L85N	TTL	LC17	Digital	DL	144	SN54LS124J	74LS124	TTL	LC12	Digital	DL
35	SN54L86J	74L86N	TTL	LC05	Digital	DL	145	SN54LS124W	54LS124	TTL	LC12	Digital	MO
36	SN54L86W	54L86T	TTL	LC05	Digital	MO	146	SN54LS133J	74S133N	TTL	LC05	Digital	DL
37	SN54L86W #	54L86T	TTL	LC05	Digital	FL	147	SN54LS136J	74-136N	TTL	LC05	Digital	DL
38	SN54L90J	74-90N	TTL	LC11	Digital	DL	148	SN54LS136W	54-136W	TTL	LC05	Digital	MO
39	SN54L90W	54-90W	TTL	LC11	Digital	FP	149	SN54LS138J	74S138N	TTL	LC06	Digital	DL
40	SN54L93J	74L93N	TTL	LC11	Digital	DL	150	SN54LS138W	54S138W	TTL	LC06	Digital	MO
41	SN54L93W	54L93T	TTL	LC11	Digital	FP	151	SN54LS139J	74S139N	TTL	LC06	Digital	DL
42	SN54L121J	74-121	TTL	LC10	Digital	DL	152	SN54LS139W	54S139W	TTL	LC06	Digital	MO
43	SN54L121W	54-121	TTL	LC10	Digital	FL	153	SN54LS160AJ	74-160N	TTL	LC11	Digital	DL
44	SN54L122J	74-122	TTL	LC10	Digital	DL	154	SN54LS160AW	54-160W	TTL	LC11	Digital	MO
45	SN54L122W	54-122	TTL	LC10	Digital	FL	155	SN54LS160J	74-160N	TTL	LC11	Digital	DL
46	SN54L123J	74-123	TTL	LC10	Digital	DL	156	SN54LS160W	54-160W	TTL	LC11	Digital	MO
47	SN54L154J	74-154N	TTL	LC06	Digital	MO	157	SN54LS161AJ	74-161N	TTL	LC11	Digital	DL
48	SN54L192J	74-192N	TTL	LC11	Digital	DL	158	SN54LS161AW	54-161W	TTL	LC11	Digital	MO
49	SN54L193J	74-193N	TTL	LC11	Digital	DL	159	SN54LS161J	74-161N	TTL	LC11	Digital	DL
50	SN54LS00J	74-00N	TTL	LC05	Digital	DL	160	SN54LS161W	54-161W	TTL	LC11	Digital	MO
51	SN54LS00W	54S00W	TTL	LC05	Digital	FL	161	SN54LS162AJ	74-162N	TTL	LC11	Digital	DL
52	SN54LS01J	74-01N	TTL	LC05	Digital	DL	162	SN54LS162AW	54-162W	TTL	LC11	Digital	MO
53	SN54LS01W	54LS01W	TTL	LC05	Digital	FL	163	SN54LS162J	74-162N	TTL	LC11	Digital	DL
54	SN54LS02J	74-02N	TTL	LC05	Digital	DL	164	SN54LS162W	54-162W	TTL	LC11	Digital	MO
55	SN54LS02W	54S02W	TTL	LC05	Digital	FL	165	SN54LS163AJ	74-163N	TTL	LC11	Digital	DL
56	SN54LS03J	74-03N	TTL	LC05	Digital	DL	166	SN54LS163AW	54-163W	TTL	LC11	Digital	MO
57	SN54LS03W	54S03W	TTL	LC05	Digital	FL	167	SN54LS163J	74-163N	TTL	LC11	Digital	DL
58	SN54LS08J	74-08N	TTL	LC05	Digital	DL	168	SN54LS163W	54-163W	TTL	LC11	Digital	MO
59	SN54LS08W	54S08W	TTL	LC05	Digital	FL	169	SN54LS168J	74S168N	TTL	LC11	Digital	DL
60	SN54LS09J	74-09N	TTL	LC05	Digital	DL	170	SN54LS168J	74S168N	TTL	LC11	Digital	DL
61	SN54LS09W	54S09W	TTL	LC05	Digital	FL	171	SN54LS173AJ	74-173N	TTL	LC04	Digital	DL
62	SN54LS10J	74-10N	TTL	LC05	Digital	DL	172	SN54LS173AW	54-173	TTL	LC04	Digital	MO
63	SN54LS10W	54S10W	TTL	LC05	Digital	FL	173	SN54LS181J	74-181	TTL	LC18	Digital	DL
64	SN54LS11J	74-11N	TTL	LC05	Digital	DL	174	SN54LS181W	54-181	TTL	LC18	Digital	MO
65	SN54LS11W	54S11W	TTL	LC05	Digital	FL	175	SN54LS182J	74-182	TTL	LC19	Digital	DL
66	SN54LS12J	74-12N	TTL	LC05	Digital	DL	176	SN54LS183J	74H183N	TTL	LC15	Digital	DL
67	SN54LS12W	54-12W	TTL	LC05	Digital	MO	177	SN54LS183W	54H183W	TTL	LC15	Digital	MO
68	SN54LS15J	74H15N	TTL	LC05	Digital	DL	178	SN54LS190J	74-190N	TTL	LC11	Digital	DL
69	SN54LS15W	54H15W	TTL	LC05	Digital	FL	179	SN54LS190W	54-190W	TTL	LC11	Digital	MO
70	SN54LS18J #mil	54-18	TTL	LC05	Digital	DL	180	SN54LS191J	74-191N	TTL	LC11	Digital	DL
71	SN54LS18W #mil	54-18	TTL	LC05	Digital	FL	181	SN54LS191W	54-191W	TTL	LC11	Digital	MO
72	SN54LS19J #mil	54L19J	TTL	LC05	Digital	DL	182	SN54LS192J	74-192N	TTL	LC11	Digital	DL
73	SN54LS19W #mil	54L19W	TTL	LC05	Digital	FL	183	SN54LS192W	54-192W	TTL	LC11	Digital	MO
74	SN54LS20J	74-13N	TTL	LC05	Digital	DL	184	SN54LS193J	74-193N	TTL	LC11	Digital	DL
75	SN54LS20W	54-20W	TTL	LC05	Digital	FL	185	SN54LS193W	54-193W	TTL	LC11	Digital	DL
76	SN54LS21J	74H21N	TTL	LC05	Digital	DL	186	SN54LS196W	54-176W	TTL	LC11	Digital	MO
77	SN54LS21W	54LS21W	TTL	LC05	Digital	FL	187	SN54LS197J	74-177N	TTL	LC11	Digital	DL
78	SN54LS22J	74-22N	TTL	LC05	Digital	DL	188	SN54LS197W	54-177W	TTL	LC11	Digital	MO
79	SN54LS22W	54-22W	TTL	LC05	Digital	FL	189	SN54LS221J	74-221	TTL	LC10	Digital	DL
80	SN54LS26J	74-03N	TTL	LC05	Digital	DL	190	SN54LS221W	54-221	TTL	LC10	Digital	MO
81	SN54LS26W	54S03W	TTL	LC05	Digital	MO	191	SN54LS240J	74S240N	PCH	LC06	Digital	DL
82	SN54LS27J	74-27N	TTL	LC05	Digital	DL	192	SN54LS241J	74S241N	PCH	LC06	Digital	DL
83	SN54LS27W	54-27W	TTL	LC05	Digital	FL	193	SN54LS256J	74LS256N	TTL	LC26	Digital	DL
84	SN54LS28J	74-02N	TTL	LC05	Digital	DL	194	SN54LS259J	74-259N	TTL	LC26	Digital	DL
85	SN54LS28W	54S02W	TTL	LC05	Digital	FL	195	SN54LS259W	54-259W	TTL	LC26	Digital	MO
86	SN54LS30J	74-30N	TTL	LC05	Digital	DL	196	SN54LS260J	74S260N	TTL	LC05	Digital	DL
87	SN54LS30W	54S30W	TTL	LC05	Digital	FL	197	SN54LS261J	74LS261	TTL	LC16	Digital	DL
88	SN54LS32J	74-32N	TTL	LC05	Digital	DL	198	SN54LS261W	54LS261	TTL	LC18	Digital	MO
89	SN54LS32W	54-32W	TTL	LC05	Digital	FL	199	SN54LS266J	74LS266N	TTL	LC05	Digital	DL
90	SN54LS33J	74-33N	TTL	LC05	Digital	DL	200	SN54LS266W	54LS266W	TTL	LC05	Digital	MO
91	SN54LS33W	54-33W	TTL	LC05	Digital	FL	201	SN54LS275J	74S275	MON	LC27	Digital	DL
92	SN54LS37J	74-00N	TTL	LC05	Digital	DL	202	SN54LS279J	74-279N	TTL	LC26	Digital	DL
93	SN54LS37W	54S00W	TTL	LC05	Digital	FL	203	SN54LS279W	54-279W	TTL	LC26	Digital	MO
94	SN54LS38J	74-03N	TTL	LC05	Digital	DL	204	SN54LS280J	74S280N	TTL	LC25	Digital	DL
95	SN54LS38W	54S03W	TTL	LC05	Digital	FL	205	SN54LS280W	54S280W	TTL	LC25	Digital	MO
96	SN54LS40J	74-13N	TTL	LC05	Digital	DL	206	SN54LS283J	74-283	TTL	LC15	Digital	DL
97	SN54LS40W	54-13W	TTL	LC05	Digital	FL	207	SN54LS283W	54-283	TTL	LC15	Digital	MO
98	SN54LS42J	74-42N	TTL	LC06	Digital	DL	208	SN54LS290J	74-290N	TTL	LC11	Digital	DL
99	SN54LS42W	54LS42W	TTL	LC06	Digital	MO	209	SN54LS290W	54-290W	TTL	LC11	Digital	MO
100	SN54LS51J	74L51N	TTL	LC05	Digital	DL	210	SN54LS292W #mil	54LS292	TTL	LC13	DIGITAL	FL
101	SN54LS51W	54LS51W	TTL	LC05	Digital	FL	211	SN54LS293J	74-293N	TTL	LC11	Digital	DL
102	SN54LS54J</												

TYPE TO FUNCTIONAL EQUIVALENCE NUMBER

IN ORDER OF: (1) MFG TYPE NUMBER

LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GP E	LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GP E
1	SN54LS325W	54LS325	TTL	LC12	Digital	MO	111	SN54S175W	54-175W	TTL	LC04	Digital	FP
2	SN54LS326J	74LS326	TTL	LC12	Digital	DL	112	SN54S181J	54-181	TTL	LC18	Digital	MO
3	SN54LS326W	54LS326	TTL	LC12	Digital	MO	113	SN54S181W	54-181	TTL	LC18	Digital	MO
4	SN54LS327J	74LS327	TTL	LC12	Digital	DL	114	SN54S182J	74-182	TTL	LC19	Digital	DL
5	SN54LS327W	54LS327	TTL	LC12	Digital	MO	115	SN54S182W	54-182	TTL	LC19	Digital	MO
6	SN54LS373J	74LS363N	TTL	LC26	Digital	DL	116	SN54S196J	74-176N	TTL	LC11	Digital	DL
7	SN54LS374J	74LS364N	TTL	LC26	Digital	DL	117	SN54S196W	54-176	TTL	LC11	Digital	MO
8	SN54LS374J#	74LS364N	TTL	LC04	Digital	DL	118	SN54S197J	74-177N	TTL	LC11	Digital	DL
9	SN54LS375W	54LS375W	TTL	LC26	Digital	MO	119	SN54S197W	54-177W	TTL	LC11	Digital	MO
10	SN54LS381J	74S381	TTL	LC18	Digital	DL	120	SN54S240J	74S240N	PCH	LC06	Digital	DL
11	SN54LS381W	54LS381	TTL	LC18	Digital	FL	121	SN54S241J	74S241	PCH	LC06	Digital	DL
12	SN54LS382J	74LS382	TTL	LC18	Digital	DL	122	SN54S244J	74LS244	PCH	LC06	Digital	DL
13	SN54LS384J	74LS384	TTL	LC16	Digital	DL	123	SN54S260J	74S260N	TTL	LC05	Digital	DL
14	SN54LS384W	54LS384	TTL	LC16	Digital	MO	124	SN54S260W	54S260W	TTL	LC05	Digital	MO
15	SN54LS385J	74LS385N	TTL	LC15	Digital	DL	125	SN54S280J	74S280N	TTL	LC25	Digital	DL
16	SN54LS386J	74LS86N	TTL	LC05	Digital	DL	126	SN54S280W	54S280W	TTL	LC25	Digital	MO
17	SN54LS386W	54LS386W	TTL	LC05	Digital	MO	127	SN54S283J	74-283	TTL	LC15	Digital	DL
18	SN54LS390J	74-390N	TTL	LC11	Digital	DL	128	SN54S373J	74LS363N	TTL	LC26	Digital	DL
19	SN54LS390W	54-390W	TTL	LC11	Digital	MO	129	SN54S374J	74LS364N	TTL	LC26	Digital	DL
20	SN54LS393J	74-393N	TTL	LC11	Digital	DL	130	SN54S374J#	74LS364N	TTL	LC04	Digital	DL
21	SN54LS393W	54-393W	TTL	LC11	Digital	MO	131	SN54S381J	74S381	TTL	LC18	Digital	DL
22	SN54LS422J	74-422	TTL	LC12	Digital	DL	132	SN74ALS00J	74-00N	TTL	LC05	Digital	DL
23	SN54LS490J	74-490N	TTL	LC11	Digital	DL	133	SN74ALS00J#	74-00	TTL	LC05	Digital	DL
24	SN54LS490W	54-490W	TTL	LC11	Digital	MO	134	SN74ALS00N	74-00N	TTL	LC05	Digital	DL
25	SN54LS533J	74LS533	TTL	LC26	Digital	DL	135	SN74ALS00N#	74-00	TTL	LC05	Digital	DL
26	SN54LS534J	74LS534	TTL	LC04	Digital	DL	136	SN74ALS01J	74-01N	TTL	LC05	Digital	DL
27	SN54LS568J	74LS568N	TTL	LC11	Digital	DL	137	SN74ALS01N	74-01N	TTL	LC05	Digital	DL
28	SN54LS569J	74LS569N	TTL	LC11	Digital	DL	138	SN74ALS02J	74-02N	TTL	LC05	Digital	DL
29	SN54LS604J	74LS604	TTL	LC26	Digital	DL	139	SN74ALS02J#	74-02	TTL	LC05	Digital	DL
30	SN54LS605J	74LS605	TTL	LC26	Digital	DL	140	SN74ALS02N	74-02N	TTL	LC05	Digital	DL
31	SN54LS606J	74LS606	TTL	LC26	Digital	DL	141	SN74ALS02N#	74-02	TTL	LC05	Digital	DL
32	SN54LS607J	74LS607	TTL	LC26	Digital	DL	142	SN74ALS03J	74-03N	TTL	LC05	Digital	DL
33	SN54LS668W	54S168W	TTL	LC11	Digital	MO	143	SN74ALS03J#	74-03	TTL	LC05	Digital	DL
34	SN54LS669W	54S169W	TTL	LC11	Digital	MO	144	SN74ALS03N	74-03N	TTL	LC05	Digital	DL
35	SN54S00J	74-00N	TTL	LC05	Digital	DL	145	SN74ALS03N#	74-03	TTL	LC05	Digital	DL
36	SN54S00W	54S00W	TTL	LC05	Digital	MO	146	SN74ALS05J	74-05N	TTL	LC05	Digital	DL
37	SN54S02W	54S02W	TTL	LC05	Digital	MO	147	SN74ALS05J#	74-05	TTL	LC05	Digital	DL
38	SN54S03J	74-03N	TTL	LC05	Digital	DL	148	SN74ALS05N	74-05N	TTL	LC05	Digital	DL
39	SN54S03W	54S03W	TTL	LC05	Digital	MO	149	SN74ALS05N#	74-05	TTL	LC05	Digital	DL
40	SN54S08J	74-08N	TTL	LC05	Digital	DL	150	SN74ALS08J	74-08N	TTL	LC05	Digital	DL
41	SN54S08W	54S08W	TTL	LC05	Digital	MO	151	SN74ALS08J#	74-08	TTL	LC05	Digital	DL
42	SN54S09J	74-09N	TTL	LC05	Digital	DL	152	SN74ALS08N	74-08N	TTL	LC05	Digital	DL
43	SN54S09W	54S09W	TTL	LC05	Digital	MO	153	SN74ALS08N#	74-08	TTL	LC05	Digital	DL
44	SN54S10J	74-10N	TTL	LC05	Digital	DL	154	SN74ALS09J	74-09	TTL	LC05	Digital	DL
45	SN54S10W	54S10W	TTL	LC05	Digital	MO	155	SN74ALS09N	74-09	TTL	LC05	Digital	DL
46	SN54S11J	74-11N	TTL	LC05	Digital	DL	156	SN74ALS10J	74-10N	TTL	LC05	Digital	DL
47	SN54S11W	54S11W	TTL	LC05	Digital	MO	157	SN74ALS10J#	74-10	TTL	LC05	Digital	DL
48	SN54S15J	74H15N	TTL	LC05	Digital	DL	158	SN74ALS10N	74-10N	TTL	LC05	Digital	DL
49	SN54S15W	74H15N	TTL	LC05	Digital	MO	159	SN74ALS10N#	74-10	TTL	LC05	Digital	DL
50	SN54S20J	74-13N	TTL	LC05	Digital	DL	160	SN74ALS11J	74-11N	TTL	LC05	Digital	DL
51	SN54S20W	54-13W	TTL	LC05	Digital	MO	161	SN74ALS11J#	74-11	TTL	LC05	Digital	DL
52	SN54S22J	74-22N	TTL	LC05	Digital	DL	162	SN74ALS11N	74-11N	TTL	LC05	Digital	DL
53	SN54S22W	54-22W	TTL	LC05	Digital	MO	163	SN74ALS11N#	74-11	TTL	LC05	Digital	DL
54	SN54S30J	74-30N	TTL	LC05	Digital	DL	164	SN74ALS12J	74-12	TTL	LC05	Digital	DL
55	SN54S30W	54S30W	TTL	LC05	Digital	MO	165	SN74ALS12N	74-12	TTL	LC05	Digital	DL
56	SN54S32J	74-32N	TTL	LC05	Digital	DL	166	SN74ALS15J	74-15	TTL	LC05	Digital	DL
57	SN54S32W	54-32W	TTL	LC05	Digital	MO	167	SN74ALS15N	74-15	TTL	LC05	Digital	DL
58	SN54S37J	74-00N	TTL	LC05	Digital	DL	168	SN74ALS20J	74-13N	TTL	LC05	Digital	DL
59	SN54S37W	54S00W	TTL	LC05	Digital	MO	169	SN74ALS20J#	74-20	TTL	LC05	Digital	DL
60	SN54S38J	74-03N	TTL	LC05	Digital	DL	170	SN74ALS20N	74-13N	TTL	LC05	Digital	DL
61	SN54S38W	54S03W	TTL	LC05	Digital	MO	171	SN74ALS20N#	74-20	TTL	LC05	Digital	DL
62	SN54S40J	74-13N	TTL	LC05	Digital	DL	172	SN74ALS21J	74H21N	TTL	LC05	Digital	DL
63	SN54S40W	54-13W	TTL	LC05	Digital	MO	173	SN74ALS21J#	74-21	TTL	LC05	Digital	DL
64	SN54S51J	74-50	TTL	LC05	Digital	DL	174	SN74ALS21N	74H21N	TTL	LC05	Digital	DL
65	SN54S51W	54S51W	TTL	LC05	Digital	MO	175	SN74ALS21N#	74-21	TTL	LC05	Digital	DL
66	SN54S64J	74S64N	TTL	LC05	Digital	DL	176	SN74ALS22J	74-22N	TTL	LC05	Digital	DL
67	SN54S64W	54S64W	TTL	LC05	Digital	MO	177	SN74ALS22J#	74-22	TTL	LC05	Digital	DL
68	SN54S65J	74S65N	TTL	LC05	Digital	DL	178	SN74ALS22N	74-22N	TTL	LC05	Digital	DL
69	SN54S65W	54S65W	TTL	LC05	Digital	MO	179	SN74ALS22N#	74-22	TTL	LC05	Digital	DL
70	SN54S74J	54S74W	TTL	LC04	Digital	DL	180	SN74ALS27J	74-27N	TTL	LC05	Digital	DL
71	SN54S74W	54S74W	TTL	LC04	Digital	MO	181	SN74ALS27N	74-27N	TTL	LC05	Digital	DL
72	SN54S85J	74-85N	TTL	LC17	Digital	DL	182	SN74ALS30J	74-30N	TTL	LC05	Digital	DL
73	SN54S85W	54-85W	TTL	LC17	Digital	MO	183	SN74ALS30N	74-30N	TTL	LC05	Digital	DL
74	SN54S86J	74-86N	TTL	LC05	Digital	DL	184	SN74ALS32J	74-32N	TTL	LC05	Digital	DL
75	SN54S86W	54-86W	TTL	LC05	Digital	MO	185	SN74ALS33J	74-33N	TTL	LC05	Digital	DL
76	SN54S112J	74LS112N	TTL	LC04	Digital	DL	186	SN74ALS33N	74-33N	TTL	LC05	Digital	DL
77	SN54S112W	54S112W	TTL	LC04	Digital	MO	187	SN74ALS38J	74-03N	TTL	LC05	Digital	DL
78	SN54S113J	74LS113N	TTL	LC04	Digital	DL	188	SN74ALS38N	74-03N	TTL	LC05	Digital	DL
79	SN54S113W	54S113W	TTL	LC04	Digital	MO	189	SN74ALS74J	74-74N	TTL	LC04	Digital	DL
80	SN54S114J	74LS114N	TTL	LC04	Digital	DL	190	SN74ALS74J#	74-74N	TTL	LC04	Digital	DL
81	SN54S114W	54S114W	TTL	LC04	Digital	MO	191	SN74ALS74N	74-74N	TTL	LC04	Digital	DL
82	SN54S124J	74LS124	TTL	LC12	Digital	DL	192	SN74ALS74N#	74-74N	TTL	LC04	Digital	DL
83	SN54S124W	54LS124	TTL	LC12	Digital	MO	193	SN74ALS109J	74-109N	TTL	LC04	Digital	DL
84	SN54S133J	74S133N	TTL	LC05	Digital	DL	194	SN74ALS109N	74-109N	TTL	LC04	Digital	DL
85	SN54S133W	54S133W	TTL	LC05	Digital	MO	195	SN74ALS112J	74LS112N	TTL	LC04	Digital	DL
86	SN54S134J	74S134N	TTL	LC05	Digital	DL	196	SN74ALS112N	74LS112N	TTL	LC04	Digital	DL
87	SN54S134W	54S134W	TTL	LC05	Digital	MO	197	SN74ALS113J	74LS113N	TTL	LC04	Digital	DL
88	SN54S135J	74S135N	TTL	LC05	Digital	DL	198	SN74ALS113N	74LS113N	TTL	LC04	Digital	DL
89	SN54S135W	54S135W	TTL	LC05	Digital	MO	199	SN74ALS114J	74LS114N	TTL	LC04	Digital	DL
90	SN54S138J	74S138	TTL	LC06	Digital	DL	200	SN74ALS114N	74LS114N	TTL	LC04	Digital	DL
91	SN54S138W	54S138W	TTL	LC06	Digital	MO	201	SN74ALS133J	74S133N	TTL	LC05	Digital	DL
92	SN54S139J	74S139N	TTL	LC06	Digital	DL	202	SN74ALS133N	74S133N	TTL	LC05	Digital	DL
93	SN54S139W	54S139W	TTL	LC06	Digital	MO	203	SN74ALS160J	74-160	TTL	LC11	Digital	DL
94	SN54S140J	74-13N	TTL	LC05	Digital	DL	204	SN74ALS160N	74-160	TTL	LC11	Digital	DL
95	SN54S140W	54-13W	TTL	LC05	Digital	MO	205	SN74ALS161J	74-161	TTL	LC11	Digital	DL
96	SN54S160J	74-160N	TTL	LC11	Digital	DL	206	SN74ALS161N	74-161	TTL	LC11	Digital	DL
97	SN54S160W	54-160W	TTL	LC11	Digital	FP	207	SN74ALS162J	74-162	TTL	LC11	Digital	DL
98	SN54S161J	74-161N	TTL	LC11	Digital	DL	208	SN74ALS162N	74-162	TTL	LC11	Digital	DL
99	SN54S161W	54-161	TTL	LC11	Digital	FP	209	SN74ALS163J	74-163	TTL	LC11	Digital	DL
100	SN54S162J	74-162	TTL	LC11	Digital	DL	210	SN74ALS163N	74-163	TTL	LC11	Digital	DL
101	SN54S162W	54-162W	TTL</										

TYPE TO FUNCTIONAL EQUIVALENCE NUMBER

IN ORDER OF: (1) MFG TYPE NUMBER

LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GP E	LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GP E
1	SN74ALS574J	74LS574N		LC04	Digital	DL	111	SN74LS15N	74H15N	TTL	LC05	Digital	DL
2	SN74ALS574N	74LS574N		LC04	Digital	DL	112	SN74LS18J	74LS18	TTL	LC05	Digital	DL
3	SN74ALS576J	74AS576		LC04	Digital	DL	113	SN74LS18N	74LS18	TTL	LC05	Digital	DL
4	SN74ALS576N	74AS576		LC04	Digital	DL	114	SN74LS19J	74LS19	TTL	LC05	Digital	DL
5	SN74ALS580J	74AS580	TTL	LC26	Digital	DL	115	SN74LS19N	74LS19	TTL	LC05	Digital	DL
6	SN74ALS580N	74AS580	TTL	LC26	Digital	DL	116	SN74LS20J	74-13N	TTL	LC05	Digital	DL
7	SN74ALS1000J	74ALS1000	TTL	LC05	Digital	DL	117	SN74LS20N	74-13N	TTL	LC05	Digital	DL
8	SN74ALS1000N	74ALS1000	TTL	LC05	Digital	DL	118	SN74LS21J	74H21N	TTL	LC05	Digital	DL
9	SN74ALS1002J	74ALS1002	TTL	LC05	Digital	DL	119	SN74LS21N	74H21N	TTL	LC05	Digital	DL
10	SN74ALS1002N	74ALS1002	TTL	LC05	Digital	DL	120	SN74LS22J	74-22N	TTL	LC05	Digital	DL
11	SN74ALS1003J	74ALS1003	TTL	LC05	Digital	DL	121	SN74LS22N	74-22N	TTL	LC05	Digital	DL
12	SN74ALS1020J	74ALS1020	TTL	LC05	Digital	DL	122	SN74LS24J	74LS24	TTL	LC05	Digital	DL
13	SN74ALS1020N	74ALS1020	TTL	LC05	Digital	DL	123	SN74LS24N	74LS24	TTL	LC05	Digital	DL
14	SN74AS800J	74AS800	TTL	LC05	Digital	DL	124	SN74LS26J	74-03N	TTL	LC05	Digital	DL
15	SN74AS800N	74AS800	TTL	LC05	Digital	DL	125	SN74LS26N	74-03N	TTL	LC05	Digital	DL
16	SN74AS802J	74AS802	TTL	LC05	Digital	DL	126	SN74LS27J	74-27N	TTL	LC05	Digital	DL
17	SN74AS802N	74AS802	TTL	LC05	Digital	DL	127	SN74LS27N	74-27N	TTL	LC05	Digital	DL
18	SN74AS804J	74AS804	TTL	LC05	Digital	DL	128	SN74LS28J	74-02N	TTL	LC05	Digital	DL
19	SN74AS804N	74AS804	TTL	LC05	Digital	DL	129	SN74LS28N	74-02N	TTL	LC05	Digital	DL
20	SN74AS808J	74AS808	TTL	LC05	Digital	DL	130	SN74LS30J	74-30N	TTL	LC05	Digital	DL
21	SN74AS808N	74AS808	TTL	LC05	Digital	DL	131	SN74LS30N	74-30N	TTL	LC05	Digital	DL
22	SN74AS832J	74AS832	TTL	LC05	Digital	DL	132	SN74LS32J	74-32N	TTL	LC05	Digital	DL
23	SN74AS832N	74AS832	TTL	LC05	Digital	DL	133	SN74LS32N	74-32N	TTL	LC05	Digital	DL
24	SN74AS882JT(A)	74AS882	TTL	LC19	Digital	DL	134	SN74LS33J	74-33N	TTL	LC05	Digital	DL
25	SN74AS882NT(A)	74AS882N	TTL	LC19	Digital	DL	135	SN74LS33N	74-33N	TTL	LC05	Digital	DL
26	SN74AS885NT	74AS885	TTL	LC17	Digital	DL	136	SN74LS37J	74-00N	TTL	LC05	Digital	DL
27	SN74H00J	74-00N	TTL	LC05	Digital	DL	137	SN74LS37N	74-00N	TTL	LC05	Digital	DL
28	SN74H00N	74-00N	TTL	LC05	Digital	DL	138	SN74LS38J	74-03N	TTL	LC05	Digital	DL
29	SN74H01J	74-03N	TTL	LC05	Digital	DL	139	SN74LS38N	74-03N	TTL	LC05	Digital	DL
30	SN74H01N	74-03N	TTL	LC05	Digital	DL	140	SN74LS40J	74-13N	TTL	LC05	Digital	DL
31	SN74H10J	74-10N	TTL	LC05	Digital	DL	141	SN74LS40N	74-13N	TTL	LC05	Digital	DL
32	SN74H10N	74-10N	TTL	LC05	Digital	DL	142	SN74LS42J	74-42N	TTL	LC06	Digital	DL
33	SN74H11J	74-11N	TTL	LC05	Digital	DL	143	SN74LS42N	74-42N	TTL	LC06	Digital	DL
34	SN74H11N	74-11N	TTL	LC05	Digital	DL	144	SN74LS47J	74-46N	TTL	LC06	Digital	DL
35	SN74H15J	74H15N	TTL	LC05	Digital	DL	145	SN74LS47N	74-46N	TTL	LC06	Digital	DL
36	SN74H15N	74H15N	TTL	LC05	Digital	DL	146	SN74LS48J	74-48N	TTL	LC06	Digital	DL
37	SN74H20J	74-13N	TTL	LC05	Digital	DL	147	SN74LS48N	74-48N	TTL	LC06	Digital	DL
38	SN74H20N	74-13N	TTL	LC05	Digital	DL	148	SN74LS49J	74LS49N	TTL	LC06	Digital	DL
39	SN74H21J	74H21N	TTL	LC05	Digital	DL	149	SN74LS49N	74LS49N	TTL	LC06	Digital	DL
40	SN74H21N	74H21N	TTL	LC05	Digital	DL	150	SN74LS51J	74LS51N	TTL	LC05	Digital	DL
41	SN74H22J	74-22N	TTL	LC05	Digital	DL	151	SN74LS51N	74LS51N	TTL	LC05	Digital	DL
42	SN74H22N	74-22N	TTL	LC05	Digital	DL	152	SN74LS54J	74LS54N	TTL	LC05	Digital	DL
43	SN74H30J	74-30N	TTL	LC05	Digital	DL	153	SN74LS54N	74LS54N	TTL	LC05	Digital	DL
44	SN74H30N	74-30N	TTL	LC05	Digital	DL	154	SN74LS55J	74LS55N	TTL	LC05	Digital	DL
45	SN74H40J	74-13N	TTL	LC05	Digital	DL	155	SN74LS55N	74LS55N	TTL	LC05	Digital	DL
46	SN74H40N	74-13N	TTL	LC05	Digital	DL	156	SN74LS73AJ	74-73N	TTL	LC04	Digital	DL
47	SN74H50J	74-50	TTL	LC05	Digital	DL	157	SN74LS73AN	74-73N	TTL	LC04	Digital	DL
48	SN74H50N	74-50N	TTL	LC05	Digital	DL	158	SN74LS74AJ	74-74N	TTL	LC04	Digital	DL
49	SN74H51J	74-50N	TTL	LC05	Digital	DL	159	SN74LS74AN	74-74N	TTL	LC04	Digital	MO
50	SN74H51N	74-50N	TTL	LC05	Digital	DL	160	SN74LS75J	74-75N	TTL	LC26	Digital	DL
51	SN74H52J	74H52N	TTL	LC05	Digital	DL	161	SN74LS75N	74-75N	TTL	LC26	Digital	DL
52	SN74H52N	74H52N	TTL	LC05	Digital	DL	162	SN74LS76AJ	74LS76N	TTL	LC04	Digital	DL
53	SN74H53J	74H53N	TTL	LC05	Digital	DL	163	SN74LS76AN	74LS76N	TTL	LC04	Digital	DL
54	SN74H53N	74H53N	TTL	LC05	Digital	MO	164	SN74LS77J	74LS77N	TTL	LC26	Digital	DL
55	SN74H54J	74H54N	TTL	LC05	Digital	DL	165	SN74LS77N	74LS77N	TTL	LC26	Digital	DL
56	SN74H54N	74H54N	TTL	LC05	Digital	DL	166	SN74LS78AJ	74L78N	TTL	LC04	Digital	DL
57	SN74H55J	74H55N	TTL	LC05	Digital	DL	167	SN74LS78AN	74L78N	TTL	LC04	Digital	DL
58	SN74H55N	74H55N	TTL	LC05	Digital	DL	168	SN74LS83AJ	74-83	TTL	LC15	Digital	DL
59	SN74H60J	74-60N	TTL	LC05	Digital	DL	169	SN74LS83AN	74-83	TTL	LC15	Digital	DL
60	SN74H60N	74-60N	TTL	LC05	Digital	DL	170	SN74LS85J	74-85	TTL	LC17	Digital	DL
61	SN74H61J	74H61N	TTL	LC05	Digital	DL	171	SN74LS85N	74-85N	TTL	LC17	Digital	DL
62	SN74H61N	74H61N	TTL	LC05	Digital	DL	172	SN74LS86J	74-86N	TTL	LC05	Digital	DL
63	SN74H62J	74H62N	TTL	LC05	Digital	DL	173	SN74LS86N	74-86N	TTL	LC05	Digital	DL
64	SN74H62N	74H62N	TTL	LC05	Digital	DL	174	SN74LS90J	74-90N	TTL	LC11	Digital	DL
65	SN74H71J	74H71N	TTL	LC04	Digital	DL	175	SN74LS90N	74-90N	TTL	LC11	Digital	DL
66	SN74H71N	74H71N	TTL	LC04	Digital	DL	176	SN74LS92J	74-92N	TTL	LC11	Digital	DL
67	SN74H72J	74L71N	TTL	LC04	Digital	DL	177	SN74LS92N	74-92N	TTL	LC11	Digital	DL
68	SN74H72N	74L71N	TTL	LC04	Digital	DL	178	SN74LS93J	74LS93N	TTL	LC11	Digital	DL
69	SN74H73J	74-73N	TTL	LC04	Digital	DL	179	SN74LS93N	74LS93N	TTL	LC11	Digital	DL
70	SN74H73N	74-73N	TTL	LC04	Digital	DL	180	SN74LS107AJ	74-107N	TTL	LC04	Digital	DL
71	SN74H74J	74-74N	TTL	LC04	Digital	DL	181	SN74LS107AN	74-107N	TTL	LC04	Digital	DL
72	SN74H74N	74-74N	TTL	LC04	Digital	DL	182	SN74LS109AJ	74-109N	TTL	LC04	Digital	DL
73	SN74H76J	74LS76N	TTL	LC04	Digital	DL	183	SN74LS109AN	74-109N	TTL	LC04	Digital	DL
74	SN74H76N	74LS76N	TTL	LC04	Digital	DL	184	SN74LS112AJ	74LS112	TTL	LC04	Digital	DL
75	SN74H78J	74H78N	TTL	LC04	Digital	DL	185	SN74LS112AN	74LS112	TTL	LC04	Digital	DL
76	SN74H78N	74H78N	TTL	LC04	Digital	DL	186	SN74LS113AJ	74LS113N	TTL	LC04	Digital	DL
77	SN74H87J	74H87N	MON	LC27	Digital	DL	187	SN74LS113AN	74LS113N	TTL	LC04	Digital	DL
78	SN74H87N	74H87N	MON	LC27	Digital	DL	188	SN74LS114AJ	74LS114N	TTL	LC04	Digital	DL
79	SN74H101J	74H71	TTL	LC04	Digital	DL	189	SN74LS114AN	74LS114N	TTL	LC04	Digital	DL
80	SN74H101N	74H71N	TTL	LC04	Digital	DL	190	SN74LS122J	54S114W	TTL	LC10	Digital	DL
81	SN74H102J	74L71N	TTL	LC04	Digital	DL	191	SN74LS122N	74-122	TTL	LC10	Digital	DL
82	SN74H102N	74L71N	TTL	LC04	Digital	DL	192	SN74LS125J	74-125	TTL	LC10	Digital	DL
83	SN74H103J	74H103	TTL	LC04	Digital	DL	193	SN74LS125N	74-125	TTL	LC10	Digital	DL
84	SN74H103N	74H103	TTL	LC04	Digital	DL	194	SN74LS126J	74LS126	TTL	LC12	Digital	DL
85	SN74H106J	74LS76N	TTL	LC04	Digital	DL	195	SN74LS124J	74LS124	TTL	LC12	Digital	DL
86	SN74H106N	74LS76N	TTL	LC04	Digital	DL	196	SN74LS124N	74LS124	TTL	LC12	Digital	DL
87	SN74H108J	74H78N	TTL	LC04	Digital	DL	197	SN74LS133J	74S133N	TTL	LC05	Digital	DL
88	SN74H108N	74H78N	TTL	LC04	Digital	DL	198	SN74LS133N	74S133N	TTL	LC05	Digital	DL
89	SN74H183J	74H183N	TTL	LC15	Digital	DL	199	SN74LS136J	74-136N	TTL	LC05	Digital	DL
90	SN74H183N	74H183N	TTL	LC15	Digital	DL	200	SN74LS136N	74-136N	TTL	LC05	Digital	DL
91	SN74L77W	54-77W	TTL	LC26	Digital	FL	201	SN74LS138J	74S138N	TTL	LC06	Digital	DL
92	SN74LS00J	74-00N	TTL	LC05	Digital	DL	202	SN74LS138N	74S138N	TTL	LC06	Digital	DL
93	SN74LS00N	74-00N	TTL	LC05	Digital	DL	203	SN74LS139J	74S139N	TTL	LC06	Digital	DL
94	SN74LS01J	74-01N	TTL	LC05	Digital	DL	204	SN74LS139N	74S139N	TTL	LC06	Digital	DL
95	SN74LS01N	74-01N	TTL	LC05	Digital	DL	205	SN74LS160AJ	74-160N	TTL	LC11	Digital	DL
96	SN74LS02J	74-02N	TTL	LC05	Digital	DL	206	SN74LS160AN	74-160N	TTL	LC11	Digital	DL
97	SN74LS02N	74-02N	TTL	LC05	Digital	DL	207	SN74LS160J	74-160N	TTL	LC11	Digital	DL
98	SN74LS03J	74-03N	TTL	LC05	Digital	DL	208	SN74LS161AJ	74-161N	TTL	LC11	Digital	DL
99	SN74LS03N	74-03N	TTL	LC05	Digital	DL	209	SN74LS161AN	74-161N	TTL	LC11	Digital	DL
100	SN74LS08J	74-08N	TTL	LC05	Digital	DL	210	SN74LS161J	74-161N	TTL	LC11	Digital	DL
101	SN74LS08N	74-08	TTL	LC05	Digital	DL	211	SN74LS161N	74-161N	TTL	LC11	Digital	DL
102	SN74LS09J	74-09N	TTL	LC05	Digital	DL	212	SN74LS162AJ					

TYPE TO FUNCTIONAL EQUIVALENCE NUMBER

IN ORDER OF: (1) MFG TYPE NUMBER

LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GP E	LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GP E
1	SN74LS168N	74S168N	TTL	LC11	Digital	DL	111	SN74S09N	74-09N	TTL	LC05	Digital	DL
2	SN74LS169AJ	74S169N	TTL	LC11	Digital	DL	112	SN74S10J	74-10N	TTL	LC05	Digital	DL
3	SN74LS169AN	74S169N	TTL	LC11	Digital	DL	113	SN74S10N	74-10N	TTL	LC05	Digital	DL
4	SN74LS169J	74S169N	TTL	LC11	Digital	DL	114	SN74S11J	74-11N	TTL	LC05	Digital	DL
5	SN74LS169N	74S169N	TTL	LC11	Digital	DL	115	SN74S11N	74-11N	TTL	LC05	Digital	DL
6	SN74LS173AJ	74-173N	TTL	LC04	Digital	DL	116	SN74S15J	74H15N	TTL	LC05	Digital	DL
7	SN74LS173AN	74-173N	TTL	LC04	Digital	DL	117	SN74S15N	74H15N	TTL	LC05	Digital	DL
8	SN74LS181J	74-181	TTL	LC18	Digital	MO	118	SN74S20J	74-13N	TTL	LC05	Digital	DL
9	SN74LS181N	74-181	TTL	LC18	Digital	DL	119	SN74S20N	74-13N	TTL	LC05	Digital	DL
10	SN74LS182J	74-182	TTL	LC19	Digital	DL	120	SN74S22J	74-22N	TTL	LC05	Digital	DL
11	SN74LS182N	74-182	TTL	LC19	Digital	DL	121	SN74S22N	74-22N	TTL	LC05	Digital	DL
12	SN74LS183J	74H183N	TTL	LC15	Digital	DL	122	SN74S30J	74-30N	TTL	LC05	Digital	DL
13	SN74LS183N	74H183N	TTL	LC15	Digital	DL	123	SN74S30N	74-30N	TTL	LC05	Digital	DL
14	SN74LS190J	74-190N	TTL	LC11	Digital	DL	124	SN74S32J	74-32N	TTL	LC05	Digital	DL
15	SN74LS190N	74-190N	TTL	LC11	Digital	DL	125	SN74S32N	74-32N	TTL	LC05	Digital	DL
16	SN74LS191J	74-191N	TTL	LC11	Digital	DL	126	SN74S37J	74-00N	TTL	LC05	Digital	DL
17	SN74LS191N	74-191N	TTL	LC11	Digital	DL	127	SN74S37N	74-00N	TTL	LC05	Digital	DL
18	SN74LS192J	74-192N	TTL	LC11	Digital	DL	128	SN74S38J	74-03N	TTL	LC05	Digital	DL
19	SN74LS192N	74-192N	TTL	LC11	Digital	MO	129	SN74S38N	74-03N	TTL	LC05	Digital	DL
20	SN74LS193J	74-193N	TTL	LC11	Digital	DL	130	SN74S40J	74-13N	TTL	LC05	Digital	DL
21	SN74LS193N	74-193N	TTL	LC11	Digital	DL	131	SN74S40N	74-13N	TTL	LC05	Digital	DL
22	SN74LS196J	74-176	TTL	LC11	Digital	DL	132	SN74S51J	74-50N	TTL	LC05	Digital	DL
23	SN74LS196N	74-176	TTL	LC11	Digital	DL	133	SN74S51N	74-50N	TTL	LC05	Digital	DL
24	SN74LS197J	74-177N	TTL	LC11	Digital	DL	134	SN74S64J	74S64N	TTL	LC05	Digital	DL
25	SN74LS197N	74-177N	TTL	LC11	Digital	DL	135	SN74S64N	74S64N	TTL	LC05	Digital	DL
26	SN74LS221J	74-221	TTL	LC10	Digital	DL	136	SN74S65J	74S65N	TTL	LC05	Digital	DL
27	SN74LS221N	74-221	TTL	LC10	Digital	DL	137	SN74S65N	74S65N	TTL	LC05	Digital	DL
28	SN74LS240J	74S240N	PCH	LC06	Digital	DL	138	SN74S74J	74-74N	TTL	LC04	Digital	DL
29	SN74LS241J	74S241N	PCH	LC06	Digital	DL	139	SN74S74N	74-74N	TTL	LC04	Digital	DL
30	SN74LS244J	74LS244N	PCH	LC06	Digital	DL	140	SN74S85J	74-85N	TTL	LC17	Digital	DL
31	SN74LS256J	74LS256N	TTL	LC26	Digital	DL	141	SN74S85N	74-85N	TTL	LC17	Digital	DL
32	SN74LS256N	74LS256N	TTL	LC26	Digital	DL	142	SN74S86J	74-86N	TTL	LC05	Digital	DL
33	SN74LS259J	74-259N	TTL	LC26	Digital	DL	143	SN74S86N	74-86N	TTL	LC05	Digital	DL
34	SN74LS259N	74-259N	TTL	LC26	Digital	DL	144	SN74S112J	74LS112N	TTL	LC04	Digital	DL
35	SN74LS260J	74S260N	TTL	LC05	Digital	DL	145	SN74S112N	74LS112N	TTL	LC04	Digital	DL
36	SN74LS260N	74S260N	TTL	LC05	Digital	DL	146	SN74S113J	74LS113N	TTL	LC04	Digital	DL
37	SN74LS261J	74LS261	TTL	LC16	Digital	DL	147	SN74S113N	74LS113N	TTL	LC04	Digital	DL
38	SN74LS261N	74LS261	TTL	LC16	Digital	DL	148	SN74S114J	74LS114N	TTL	LC04	Digital	DL
39	SN74LS266J	74LS266N	TTL	LC05	Digital	DL	149	SN74S114N	74LS114N	TTL	LC04	Digital	DL
40	SN74LS266N	74LS266N	TTL	LC05	Digital	DL	150	SN74S124J	74LS124	TTL	LC12	Digital	DL
41	SN74LS275J	74S275	MON	LC27	Digital	DL	151	SN74S124N	74LS124	TTL	LC12	Digital	DL
42	SN74LS275N	74S275	MON	LC27	Digital	DL	152	SN74S133J	74S133N	TTL	LC05	Digital	DL
43	SN74LS279J	74-279N	TTL	LC26	Digital	DL	153	SN74S133N	74S133N	TTL	LC05	Digital	DL
44	SN74LS279N	74-279N	TTL	LC26	Digital	DL	154	SN74S134J	74S134N	TTL	LC05	Digital	DL
45	SN74LS280J	74S280N	TTL	LC25	Digital	DL	155	SN74S134N	74S134N	TTL	LC05	Digital	DL
46	SN74LS280N	74S280N	TTL	LC25	Digital	DL	156	SN74S135J	74S135N	TTL	LC05	Digital	DL
47	SN74LS283J	74-283	TTL	LC15	Digital	DL	157	SN74S135N	74S135N	TTL	LC05	Digital	DL
48	SN74LS283N	74-283	TTL	LC15	Digital	DL	158	SN74S138J	74S138N	TTL	LC06	Digital	DL
49	SN74LS290J	74-290N	TTL	LC11	Digital	DL	159	SN74S138N	74S138N	TTL	LC06	Digital	DL
50	SN74LS290N	74-290N	TTL	LC11	Digital	DL	160	SN74S139J	74S139N	TTL	LC06	Digital	DL
51	SN74LS292J	74LS292	TTL	LC13	DIGITAL	DL	161	SN74S139N	74S139N	TTL	LC06	Digital	DL
52	SN74LS292N	74LS292	TTL	LC13	DIGITAL	DL	162	SN74S140J	74-13N	TTL	LC05	Digital	DL
53	SN74LS293J	74-293N	TTL	LC11	Digital	DL	163	SN74S140N	74-13N	TTL	LC05	Digital	DL
54	SN74LS293N	74-293N	TTL	LC11	Digital	DL	164	SN74S160J	74-160N	TTL	LC11	Digital	DL
55	SN74LS294J	74LS294	TTL	LC13	DIGITAL	DL	165	SN74S160N	74-160N	TTL	LC11	Digital	DL
56	SN74LS294N	74LS294	TTL	LC13	DIGITAL	DL	166	SN74S161J	74-161N	TTL	LC11	Digital	DL
57	SN74LS320J	74LS320	TTL	LC12	Digital	DL	167	SN74S161N	74-161N	TTL	LC11	Digital	DL
58	SN74LS320N	74LS320	TTL	LC12	Digital	DL	168	SN74S162J	74-162N	TTL	LC11	Digital	DL
59	SN74LS321J	74LS321	TTL	LC12	Digital	DL	169	SN74S162N	74-162N	TTL	LC11	Digital	DL
60	SN74LS321N	74LS321	TTL	LC12	Digital	DL	170	SN74S163J	74-163N	TTL	LC11	Digital	DL
61	SN74LS373J	74LS363N	TTL	LC26	Digital	DL	171	SN74S163N	74-163N	TTL	LC11	Digital	DL
62	SN74LS373N	74LS363N	TTL	LC26	Digital	DL	172	SN74S168J	74S168N	TTL	LC11	Digital	DL
63	SN74LS374J	74LS364N	TTL	LC26	Digital	DL	173	SN74S168N	74S168N	TTL	LC11	Digital	DL
64	SN74LS374J#	74LS364N	TTL	LC04	Digital	DL	174	SN74S169J	74S169N	TTL	LC11	Digital	DL
65	SN74LS374N	74LS364N	TTL	LC04	Digital	DL	175	SN74S169N	74S169N	TTL	LC11	Digital	DL
66	SN74LS375J	74LS375N	TTL	LC26	Digital	DL	176	SN74S174J	74-174N	TTL	LC04	Digital	DL
67	SN74LS375N	74LS375N	TTL	LC26	Digital	DL	177	SN74S174N	74-174N	TTL	LC04	Digital	DL
68	SN74LS381J	74S381	TTL	LC18	Digital	DL	178	SN74S175J	74-175N	TTL	LC04	Digital	DL
69	SN74LS381N	74S381	TTL	LC18	Digital	DL	179	SN74S175N	74-175	TTL	LC04	Digital	DL
70	SN74LS382J	74LS382	TTL	LC18	Digital	DL	180	SN74S181J	74-181	TTL	LC18	Digital	MO
71	SN74LS382N	74LS382	TTL	LC18	Digital	DL	181	SN74S181N	74-181	TTL	LC18	Digital	DL
72	SN74LS384J	74LS384	TTL	LC16	Digital	DL	182	SN74S182J	74-182	TTL	LC19	Digital	DL
73	SN74LS384N	74LS384	TTL	LC16	Digital	DL	183	SN74S182N	74-182	TTL	LC19	Digital	DL
74	SN74LS385J	74LS385N	TTL	LC15	Digital	DL	184	SN74S196J	74-176N	TTL	LC11	Digital	DL
75	SN74LS385N	74LS385N	TTL	LC15	Digital	DL	185	SN74S196N	74-176N	TTL	LC11	Digital	DL
76	SN74LS386J	74L86N	TTL	LC05	Digital	DL	186	SN74S197J	74-177N	TTL	LC11	Digital	DL
77	SN74LS386N	74L86N	TTL	LC05	Digital	DL	187	SN74S197N	74-177N	TTL	LC11	Digital	DL
78	SN74LS390J	74-390N	TTL	LC11	Digital	DL	188	SN74S240J	74S240N	PCH	LC06	Digital	DL
79	SN74LS390N	74-390N	TTL	LC11	Digital	DL	189	SN74S240N	74S240N	TTL	LC05	Digital	DL
80	SN74LS393J	74-393N	TTL	LC11	Digital	DL	190	SN74S241J	74S241N	PCH	LC06	Digital	DL
81	SN74LS393N	74-393N	TTL	LC11	Digital	DL	191	SN74S241N	74S241N	TTL	LC05	Digital	DL
82	SN74LS424J	74LS424	TTL	LC12	Digital	DL	192	SN74S244J	74LS244	PCH	LC06	Digital	DL
83	SN74LS424N	74LS424	TTL	LC12	Digital	DL	193	SN74S260J	74S260N	TTL	LC05	Digital	DL
84	SN74LS490J	74-490N	TTL	LC11	Digital	DL	194	SN74S260N	74S260N	TTL	LC05	Digital	DL
85	SN74LS490N	74-490N	TTL	LC11	Digital	DL	195	SN74S274J	74S274	TTL	LC16	Digital	DL
86	SN74LS533J	74LS533	TTL	LC26	Digital	DL	196	SN74S274N	74S274	TTL	LC16	Digital	DL
87	SN74LS533N	74LS533	TTL	LC26	Digital	DL	197	SN74S275J	74S275	MON	LC27	Digital	DL
88	SN74LS534J	74LS534	TTL	LC04	Digital	DL	198	SN74S275N	74S275	MON	LC27	Digital	DL
89	SN74LS534N	74LS534	TTL	LC04	Digital	DL	199	SN74S280J	74S280N	TTL	LC25	Digital	DL
90	SN74LS568J	74LS568N	TTL	LC11	Digital	DL	200	SN74S280N	74S280N	TTL	LC25	Digital	DL
91	SN74LS568N	74LS568N	TTL	LC11	Digital	DL	201	SN74S283J	74-283	TTL	LC15	Digital	DL
92	SN74LS569J	74LS569N	TTL	LC11	Digital	DL	202	SN74S373J	74LS363N	TTL	LC26	Digital	DL
93	SN74LS569N	74LS569N	TTL	LC11	Digital	DL	203	SN74S374J#	74LS364N	TTL	LC26	Digital	DL
94	SN74LS604J	74LS604	TTL	LC26	Digital	DL	204	SN74S374J#	74LS364N	TTL	LC04	Digital	DL
95	SN74LS604N	74LS604	TTL	LC26	Digital	DL	205	SN74S381J	74S381	TTL	LC18	Digital	DL
96	SN74LS605J	74LS605	TTL	LC26	Digital	DL	206	SN74S381N	74S381	TTL	LC18	Digital	DL
97	SN74LS605N	74LS605	TTL	LC26	Digital	DL	207	SN74S412J	74S412N	TTL	LC26	Digital	MO
98	SN74LS606J	74LS606	TTL	LC26	Digital	DL	208	SN74S412N	74S412N	TTL	LC26	Digital	DL
99	SN74LS606N	74LS606	TTL	LC26	Digital	DL	209	SN74S533N	74LS533	TTL	LC26	Digital	DL
100	SN74LS607J	74LS607	TTL	LC26	Digital	DL	210	SN74S534J	74LS534	TTL	LC04	Digital	DL
101	SN74												

TYPE TO FUNCTIONAL EQUIVALENCE NUMBER

IN ORDER OF: (1) MFG TYPE NUMBER

LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GPE	LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GPE
1	SN5408W	54S08W	TTL	LC05	Digital	MO	111	SN7428J	74-02N	TTL	LC05	Digital	DL
2	SN5409J	74-09N	TTL	LC05	Digital	DL	112	SN7428N	74-02N	TTL	LC05	Digital	DL
3	SN5409W	54S09W	TTL	LC05	Digital	MO	113	SN7430J	74-30N	TTL	LC05	Digital	DL
4	SN5410J	74-10N	TTL	LC05	Digital	DL	114	SN7430N	74-13N	TTL	LC05	Digital	DL
5	SN5410W	54-10W	TTL	LC05	Digital	MO	115	SN7432J	74-32N	TTL	LC05	Digital	DL
6	SN5412J	74-12N	TTL	LC05	Digital	DL	116	SN7432N	74-32N	TTL	LC05	Digital	DL
7	SN5412W	54-12W	TTL	LC05	Digital	MO	117	SN7433J	74-33N	TTL	LC05	Digital	DL
8	SN5420J	74-13N	TTL	LC05	Digital	DL	118	SN7433N	74-33N	TTL	LC05	Digital	DL
9	SN5420W	54-20W	TTL	LC05	Digital	MO	119	SN7437J	74-00N	TTL	LC05	Digital	DL
10	SN5422J	74-22N	TTL	LC05	Digital	DL	120	SN7437N	74-00N	TTL	LC05	Digital	DL
11	SN5422W	54-22W	TTL	LC05	Digital	MO	121	SN7438J	74-03N	TTL	LC05	Digital	DL
12	SN5423J	74-23N	TTL	LC05	Digital	DL	122	SN7438N	74-03N	TTL	LC05	Digital	DL
13	SN5423W	54-23W	TTL	LC05	Digital	MO	123	SN7440J	74-13N	TTL	LC05	Digital	DL
14	SN5425J	74-25N	TTL	LC05	Digital	DL	124	SN7440N	74-13N	TTL	LC05	Digital	DL
15	SN5425W	54-25W	TTL	LC05	Digital	MO	125	SN7442AJ	74-42N	TTL	LC06	Digital	DL
16	SN5426J	74-03N	TTL	LC05	Digital	DL	126	SN7442AN	74-42N	TTL	LC06	Digital	DL
17	SN5426W	54S03W	TTL	LC05	Digital	MO	127	SN7443AJ	74-43N	TTL	LC06	Digital	DL
18	SN5427J	74-27N	TTL	LC05	Digital	DL	128	SN7443AN	74-43	TTL	LC06	Digital	MO
19	SN5427W	54-27W	TTL	LC05	Digital	MO	129	SN7444AJ	74-44N	TTL	LC06	Digital	DL
20	SN5428J	74-02N	TTL	LC05	Digital	DL	130	SN7444AN	74-44N	TTL	LC06	Digital	DL
21	SN5428W	54S02W	TTL	LC05	Digital	MO	131	SN7445J	74-45N	TTL	LC06	Digital	DL
22	SN5430J	74-30N	TTL	LC05	Digital	DL	132	SN7445N	74-45N	TTL	LC06	Digital	DL
23	SN5430W	54-30W	TTL	LC05	Digital	MO	133	SN7447J	74-46N	TTL	LC06	Digital	DL
24	SN5432J	74-32N	TTL	LC05	Digital	DL	134	SN7447N	74-46N	TTL	LC06	Digital	DL
25	SN5432W	54-32W	TTL	LC05	Digital	MO	135	SN7450J	74-50N	TTL	LC05	Digital	DL
26	SN5433J	74-33N	TTL	LC05	Digital	DL	136	SN7450N	74-50N	TTL	LC05	Digital	DL
27	SN5433W	54-33W	TTL	LC05	Digital	MO	137	SN7451	74-50N	TTL	LC05	Digital	FL
28	SN5437J	74-00N	TTL	LC05	Digital	DL	138	SN7451J	74-50N	TTL	LC05	Digital	DL
29	SN5437W	54S00W	TTL	LC05	Digital	MO	139	SN7451N	74-50N	TTL	LC05	Digital	DL
30	SN5438J	74-03N	TTL	LC05	Digital	DL	140	SN7453	54-53W	TTL	LC05	Digital	FL
31	SN5438W	54S03W	TTL	LC05	Digital	MO	141	SN7453J	74-53N	TTL	LC05	Digital	DL
32	SN5440J	74-13N	TTL	LC05	Digital	DL	142	SN7453N	74-53N	TTL	LC05	Digital	DL
33	SN5440W	54-40W	TTL	LC05	Digital	MO	143	SN7454	54-54W	TTL	LC05	Digital	FL
34	SN5442AJ	74-42N	TTL	LC06	Digital	DL	144	SN7454J	74-53N	TTL	LC05	Digital	DL
35	SN5442AW	54LS42W	TTL	LC06	Digital	MO	145	SN7454N	74-53N	TTL	LC05	Digital	DL
36	SN5443AJ	74-43	TTL	LC06	Digital	DL	146	SN7460J	74-60N	TTL	LC05	Digital	DL
37	SN5443AW	54-43W	TTL	LC06	Digital	MO	147	SN7460N	74-60N	TTL	LC05	Digital	DL
38	SN5444AJ	74-44N	TTL	LC06	Digital	DL	148	SN7470J	74-70N	TTL	LC04	Digital	DL
39	SN5444AW	54-44W	TTL	LC06	Digital	MO	149	SN7470N	74-70N	TTL	LC04	Digital	DL
40	SN5445J	74-45N	TTL	LC06	Digital	DL	150	SN7472J	74L71N	TTL	LC04	Digital	DL
41	SN5445W	54-45W	TTL	LC06	Digital	MO	151	SN7472N	74L71N	TTL	LC04	Digital	DL
42	SN5450J	74-50N	TTL	LC05	Digital	DL	152	SN7473J	74-73N	TTL	LC04	Digital	DL
43	SN5450W	54-50W	TTL	LC05	Digital	MO	153	SN7473N	74-73N	TTL	LC04	Digital	DL
44	SN5451J	74-50N	TTL	LC05	Digital	DL	154	SN7474J	74-74N	TTL	LC04	Digital	DL
45	SN5451W	54-51W	TTL	LC05	Digital	MO	155	SN7474N	74-74N	TTL	LC04	Digital	DL
46	SN5453J	74-53N	TTL	LC05	Digital	DL	156	SN7475J	74-75N	TTL	LC26	Digital	DL
47	SN5453W	54-53W	TTL	LC05	Digital	MO	157	SN7475N	74-75N	TTL	LC26	Digital	DL
48	SN5454J	74-53N	TTL	LC05	Digital	DL	158	SN7476J	74LS76	TTL	LC04	Digital	DL
49	SN5454W	54-54W	TTL	LC05	Digital	MO	159	SN7476N	74LS76N	TTL	LC04	Digital	MO
50	SN5460J	74-60N	TTL	LC05	Digital	DL	160	SN7480J	74-80N	TTL	LC15	Digital	DL
51	SN5460W	54-60W	TTL	LC05	Digital	MO	161	SN7480N	74-80N	TTL	LC15	Digital	DL
52	SN5470J	74-70N	TTL	LC04	Digital	DL	162	SN7482J	74-82N	TTL	LC15	Digital	DL
53	SN5470W	54-70W	TTL	LC04	Digital	MO	163	SN7482N	74-82N	TTL	LC15	Digital	DL
54	SN5472J	74L71N	TTL	LC04	Digital	DL	164	SN7483AJ	74-83	TTL	LC15	Digital	DL
55	SN5472W	54L71W	TTL	LC04	Digital	MO	165	SN7483AN	74-83	TTL	LC15	Digital	DL
56	SN5473J	74-73N	TTL	LC04	Digital	DL	166	SN7485J	74-85N	TTL	LC17	Digital	DL
57	SN5473W	54-73W	TTL	LC04	Digital	MO	167	SN7485N	74-85N	TTL	LC17	Digital	DL
58	SN5475J	74-75N	TTL	LC26	Digital	DL	168	SN7486J	74-86N	TTL	LC05	Digital	DL
59	SN5475W	54-75W	TTL	LC26	Digital	MO	169#	SN7486N	74-86N	TTL	LC05	Digital	DL
60	SN5476J	74LS76N	TTL	LC04	Digital	DL	170	SN7490AJ	74-90N	TTL	LC11	Digital	DL
61	SN5476W	54LS76W	TTL	LC04	Digital	MO	171	SN7490AN	74-90N	TTL	LC11	Digital	DL
62	SN5477W	54-77W	TTL	LC26	Digital	MO	172	SN7492AJ	74-92N	TTL	LC11	Digital	DL
63	SN5480J	74-80N	TTL	LC15	Digital	DL	173	SN7492AN	74-92N	TTL	LC11	Digital	DL
64	SN5480W	54-80W	TTL	LC15	Digital	MO	174	SN7493AJ	74LS93N	TTL	LC11	Digital	DL
65	SN5482J	74-82N	TTL	LC15	Digital	DL	175	SN7493AN	74LS93N	TTL	LC11	Digital	DL
66	SN5482W	54-82W	TTL	LC15	Digital	MO	176	SN7497J	74-97N	TTL	LC13	DIGITAL	DL
67	SN5483AJ	74-83	TTL	LC15	Digital	DL	177	SN7497N	74-97N	TTL	LC13	DIGITAL	DL
68	SN5483AW	54-83	TTL	LC15	Digital	MO	178	SN15846	54S00W	DTL	LC05	Digital	FL
69	SN5485J	74-85N	TTL	LC17	Digital	DL	179	SN15846N	74-00N	DTL	LC05	Digital	FL
70	SN5485W	54-85W	TTL	LC17	Digital	MO	180	SN15848F,R	74-00N	DTL	LC05	Digital	FL
71	SN5486J	74-86N	TTL	LC05	Digital	DL	181	SN15849N	74-00N	DTL	LC05	Digital	FL
72	SN5486W	54-86W	TTL	LC05	Digital	MO	182	SN15862	74-10N	DTL	LC05	Digital	FL
73	SN5490AJ	74-90N	TTL	LC11	Digital	DL	183	SN15862N	74-10N	DTL	LC05	Digital	FL
74	SN5490AW	54-90W	TTL	LC11	Digital	MO	184	SN15863F,R	54S10W	DTL	LC05	Digital	FL
75	SN5490N	74-90	TTL	LC11	Digital	DL	185	SN15863J	74-10N	DTL	LC05	Digital	FL
76	SN5492AJ	74-92N	TTL	LC11	Digital	DL	186	SN15863N	74-10N	DTL	LC05	Digital	FL
77	SN5492AW	54-92W	TTL	LC11	Digital	MO	187	SN15946	54S00W	DTL	LC05	Digital	FL
78	SN5493AJ	74LS93N	TTL	LC11	Digital	DL	188	SN15946N	74-00N	DTL	LC05	Digital	FL
79	SN5493AW	54LS93	TTL	LC11	Digital	MO	189	SN15949J	74-00N	DTL	LC05	Digital	DL
80	SN5497J	74-97N	TTL	LC13	DIGITAL	DL	190	SN15949N	74-00N	DTL	LC05	Digital	DL
81	SN5497W	54-97	TTL	LC13	DIGITAL	MO	191	SN15962	74-10N	DTL	LC05	Digital	FL
82	SN7400J	74-00N	TTL	LC05	Digital	DL	192	SN15962N	74-10N	DTL	LC05	Digital	FL
83	SN7400N	74-00N	TTL	LC05	Digital	DL	193	SN15963F,R	54S10W	DTL	LC05	Digital	FL
84	SN7401J	74-01N	TTL	LC05	Digital	DL	194	SN15963J	74-10	DTL	LC05	Digital	FL
85	SN7401N	74-01N	TTL	LC05	Digital	DL	195	SN15963N	74-10N	DTL	LC05	Digital	FL
86	SN7402J	74-02N	TTL	LC05	Digital	DL	196	SN29000J	74-104N	TTL	LC04	Digital	DL
87	SN7402N	74-02N	TTL	LC05	Digital	DL	197	SN29000N	74-109N	TTL	LC04	Digital	DL
88	SN7403J	74-03N	TTL	LC05	Digital	DL	198	SN29002J	74-00N	TTL	LC05	Digital	DL
89	SN7403N	74-03N	TTL	LC05	Digital	DL	199	SN29002N	74-00N	TTL	LC05	Digital	DL
90	SN7408J	74-08N	TTL	LC05	Digital	DL	200	SN29003J	74-10N	TTL	LC05	Digital	DL
91	SN7408N	74-08N	TTL	LC05	Digital	DL	201	SN29003N	74-10N	TTL	LC05	Digital	DL
92	SN7409J	74-09N	TTL	LC05	Digital	DL	202	SN29004J	74-13N	TTL	LC05	Digital	DL
93	SN7409N	74-09N	TTL	LC05	Digital	DL	203	SN29004N	74-13N	TTL	LC05	Digital	DL
94	SN7410J	74-10N	TTL	LC05	Digital	DL	204	SN29005J	74-50N	TTL	LC05	Digital	DL
95	SN7410N	74-10N	TTL	LC05	Digital	DL	205	SN29005N	74-50N	TTL	LC05	Digital	DL
96	SN7412J	74-12N	TTL	LC05	Digital	DL	206	SN29008J	74-13N	TTL	LC05	Digital	DL
97	SN7412N	74-12N	TTL	LC05	Digital	DL	207	SN29008N	74-13N	TTL	LC05	Digital	DL
98	SN7412W	54-12W	TTL	LC05	Digital	MO	208	SN29012J	74-03N	TTL	LC05	Digital	DL
99	SN7420J	74-13N	TTL	LC05	Digital	DL	209	SN29012N	74-03N	TTL	LC05	Digital	DL
100	SN7420N	74-13N	TTL	LC05	Digital	DL	210	SN29024J	74-109N	TTL	LC04	Digital	DL
101	SN7422J	74-22N	TTL	LC05	Digital	DL	211	SN29024N	74-109N	TTL	LC04	Digital	DL
102	SN7422N	74-22N	TTL	LC05	Digital	DL	212	SN29301J	74-42N	TTL	LC06	Digital	DL
103	SN7423J	74-23N	TTL	LC05	Digital	DL	213	SN29301N	74-42N	TTL	LC06	Digital	DL
104	SN7423N	74-23N	TTL	LC05	Digital	DL	214	SN29310J	74-160N	TTL	LC11	Digital	

TYPE TO FUNCTIONAL EQUIVALENCE NUMBER

IN ORDER OF: (1) MFG TYPE NUMBER

LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GP E	LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GP E
1	SN54100J	74-100	TTL	LC26	Digital	DL	111	SN74136J	74-136N	TTL	LC05	Digital	DL
2	SN54100W	54-100W	TTL	LC26	Digital	MO	112	SN74136N	74-136N	TTL	LC05	Digital	DL
3	SN54107J	74-107N	TTL	LC04	Digital	DL	113	SN74141J	74-41N	TTL	LC06	Digital	DL
4	SN54109J	74-109N	TTL	LC04	Digital	DL	114	SN74141N	74-41N	TTL	LC06	Digital	DL
5	SN54109W	54-109W	TTL	LC04	Digital	DL	115	SN74145J	74-45N	TTL	LC06	Digital	DL
6	SN54110J	74L71N	TTL	LC04	Digital	DL	116	SN74145N	74-45N	TTL	LC06	Digital	DL
7	SN54110W	54-110W	TTL	LC04	Digital	MO	117	SN74154J	74-154N	TTL	LC06	Digital	MO
8	SN54111J	74-111N	TTL	LC04	Digital	DL	118	SN74154N	74-154N	TTL	LC06	Digital	DL
9	SN54111W	54-111W	TTL	LC04	Digital	MO	119	SN74155J	74-155N	TTL	LC06	Digital	DL
10	SN54116J	74-116N	TTL	LC26	Digital	MO	120	SN74155N	74-155N	TTL	LC06	Digital	DL
11	SN54116W	54-116W	TTL	LC26	Digital	MO	121	SN74156J	74-156N	TTL	LC06	Digital	DL
12	SN54122J	74-122	TTL	LC10	Digital	DL	122	SN74156N	74-156N	TTL	LC06	Digital	DL
13	SN54122W	54-122	TTL	LC10	Digital	MO	123	SN74160J	74-160N	TTL	LC11	Digital	DL
14	SN54123J	74-123	TTL	LC10	Digital	DL	124	SN74160N	74-160N	TTL	LC11	Digital	DL
15	SN54123W	54-123	TTL	LC10	Digital	MO	125	SN74161J	74-161N	TTL	LC11	Digital	DL
16	SN54128J	74-02N	TTL	LC05	Digital	DL	126	SN74161N	74-161N	TTL	LC11	Digital	DL
17	SN54128W	54S02W	TTL	LC05	Digital	MO	127	SN74162J	74-162N	TTL	LC11	Digital	DL
18	SN54136J	74-136N	TTL	LC05	Digital	DL	128	SN74162N	74-162N	TTL	LC11	Digital	DL
19	SN54136W	54-136W	TTL	LC05	Digital	MO	129	SN74163J	74-163N	TTL	LC11	Digital	DL
20	SN54145J	74-45N	TTL	LC06	Digital	DL	130	SN74163N	74-163N	TTL	LC11	Digital	DL
21	SN54154J	74-154N	TTL	LC06	Digital	MO	131	SN74167J	74-167	TTL	LC13	DIGITAL	DL
22	SN54154W	54-154W	TTL	LC06	Digital	MO	132	SN74167N	74-167	TTL	LC13	DIGITAL	DL
23	SN54155J	74-155N	TTL	LC06	Digital	DL	133	SN74176J	74-176	TTL	LC11	Digital	DL
24	SN54155W	54-155W	TTL	LC06	Digital	MO	134	SN74176N	74-176	TTL	LC11	Digital	DL
25	SN54156J	74-156N	TTL	LC06	Digital	DL	135	SN74177J	74-177N	TTL	LC11	Digital	DL
26	SN54156W	54-156W	TTL	LC06	Digital	MO	136	SN74177N	74-177	TTL	LC11	Digital	DL
27	SN54160J	74-160N	TTL	LC11	Digital	DL	137	SN74180J	74-180N	TTL	LC25	Digital	DL
28	SN54160W	54-160W	TTL	LC11	Digital	MO	138	SN74180N	74-180N	TTL	LC25	Digital	DL
29	SN54161J	74-161N	TTL	LC11	Digital	DL	139	SN74181J	74-181	TTL	LC18	Digital	MO
30	SN54161W	54-161W	TTL	LC11	Digital	MO	140	SN74181N	74-181	TTL	LC18	Digital	DL
31	SN54162J	74-162N	TTL	LC11	Digital	DL	141	SN74182J	74-182	TTL	LC19	Digital	DL
32	SN54162W	54-162	TTL	LC11	Digital	DL	142	SN74182N	74-182	TTL	LC19	Digital	DL
33	SN54183J	74-163N	TTL	LC11	Digital	DL	143	SN74190J	74-190N	TTL	LC11	Digital	DL
34	SN54163W	54-163W	TTL	LC11	Digital	MO	144	SN74190N	74-190N	TTL	LC11	Digital	DL
35	SN54167J	74-167	TTL	LC13	DIGITAL	DL	145	SN74191J	74-191N	TTL	LC11	Digital	DL
36	SN54167W	54-167	TTL	LC13	DIGITAL	MO	146	SN74191N	74-191N	TTL	LC11	Digital	DL
37	SN54176J	74-176N	TTL	LC11	Digital	DL	147	SN74192J	74-192N	TTL	LC11	Digital	DL
38	SN54176W	54-176W	TTL	LC11	Digital	MO	148	SN74192N	74-192N	TTL	LC11	Digital	DL
39	SN54177J	74-177N	TTL	LC11	Digital	DL	149	SN74193J	74-193N	TTL	LC11	Digital	DL
40	SN54177W	54-177W	TTL	LC11	Digital	MO	150	SN74193N	74-193N	TTL	LC11	Digital	DL
41	SN54180J	74-180N	TTL	LC25	Digital	DL	151	SN74196J	74-176	TTL	LC11	Digital	DL
42	SN54180W	54-180W	TTL	LC25	Digital	MO	152	SN74196N	74-176	TTL	LC11	Digital	DL
43	SN54181J	74-181	TTL	LC18	Digital	MO	153	SN74197J	74-177N	TTL	LC11	Digital	DL
44	SN54181W	54-181	TTL	LC18	Digital	MO	154	SN74197N	74-177N	TTL	LC11	Digital	DL
45	SN54182J	74-182	TTL	LC19	Digital	DL	155	SN74221J	74-221	TTL	LC10	Digital	DL
46	SN54182W	54-182	TTL	LC19	Digital	MO	156	SN74221N	74-221	TTL	LC10	Digital	DL
47	SN54190J	74-190N	TTL	LC11	Digital	DL	157	SN74259J	74-259N	TTL	LC26	Digital	DL
48	SN54190W	54-190W	TTL	LC11	Digital	MO	158	SN74259N	74-259N	TTL	LC26	Digital	DL
49	SN54191J	74-191N	TTL	LC11	Digital	DL	159	SN74265J	74-265N	MON	LC27	Digital	DL
50	SN54191W	54-191W	TTL	LC11	Digital	MO	160	SN74265N	74-265N	MON	LC27	Digital	DL
51	SN54192J	74-192N	TTL	LC11	Digital	DL	161 #	SN74276J	74-276N	TTL	LC04	Digital	DL
52	SN54192W	54-192W	TTL	LC11	Digital	MO	162 #	SN74276N	74-276N	TTL	LC04	Digital	DL
53	SN54193J	74-193N	TTL	LC11	Digital	DL	163	SN74279J	74-279N	TTL	LC26	Digital	DL
54	SN54193W	54-193	TTL	LC11	Digital	MO	164	SN74279N	74-279N	TTL	LC26	Digital	DL
55	SN54196J	74-176	TTL	LC11	Digital	DL	165	SN74283J	74-283	TTL	LC15	Digital	DL
56	SN54196W	54-176W	TTL	LC11	Digital	MO	166	SN74283N	74-283	TTL	LC15	Digital	DL
57	SN54197J	74-177N	TTL	LC11	Digital	DL	167	SN74284J	74-284	TTL	LC16	Digital	DL
58	SN54197W	54-177	TTL	LC11	Digital	MO	168	SN74284N	74-284	TTL	LC16	Digital	DL
59	SN54221J	74-221	TTL	LC10	Digital	DL	169	SN74285J	74-285	TTL	LC16	Digital	DL
60	SN54221W	54-221	TTL	LC10	Digital	MO	170	SN74285N	74-285	TTL	LC16	Digital	DL
61	SN54259J	74-259N	TTL	LC26	Digital	DL	171	SN74290J	74-290N	TTL	LC11	Digital	DL
62	SN54259W	54-259W	TTL	LC26	Digital	MO	172	SN74290N	74-290N	TTL	LC11	Digital	DL
63	SN54265J	74-265N	MON	LC27	Digital	DL	173	SN74293J	74-293N	TTL	LC11	Digital	DL
64	SN54265W	54-265W	MON	LC27	Digital	MO	174	SN74293N	74-293N	TTL	LC11	Digital	DL
65 #	SN54276J	74-276N	TTL	LC04	Digital	DL	175	SN74376J	74-376N	TTL	LC04	Digital	DL
66	SN54279J	74-279N	TTL	LC26	Digital	DL	176	SN74390J	74-390N	TTL	LC11	Digital	DL
67	SN54279W	54-279W	TTL	LC26	Digital	MO	177	SN74390N	74-390N	TTL	LC11	Digital	DL
68	SN54283J	74-283	TTL	LC15	Digital	DL	178	SN74393J	74-393N	TTL	LC11	Digital	DL
69	SN54283W	54-283	TTL	LC15	Digital	MO	179	SN74393N	74-393N	TTL	LC11	Digital	DL
70	SN54284J	74-284	TTL	LC16	Digital	DL	180	SN74490J	74-490N	TTL	LC11	Digital	DL
71	SN54284W	54-284	TTL	LC16	Digital	MO	181	SN74490N	74-490N	TTL	LC11	Digital	DL
72	SN54285J	74-285	TTL	LC16	Digital	DL	182	SN158093J	54-73w	DTL	LC04	Digital	DL
73	SN54285W	54-285	TTL	LC16	Digital	MO	183	SN158093N	74-73N	DTL	LC04	Digital	DL
74	SN54290J	74-290N	TTL	LC11	Digital	DL	184	SN158093R	54-73w	DTL	LC04	Digital	FL
75	SN54290W	54-290W	TTL	LC11	Digital	MO	185	SN158094J	74-73N	DTL	LC04	Digital	DL
76	SN54293J	74-293N	TTL	LC11	Digital	DL	186	SN158094N	74-73N	DTL	LC04	Digital	DL
77	SN54293W	54-293W	TTL	LC11	Digital	MO	187	SN158094R	54-73W	DTL	LC04	Digital	FL
78	SN54376J	74-376N	TTL	LC04	Digital	DL	188	SN159093F	54-73	DTL	LC04	Digital	FL
79	SN54376W	54-376W	TTL	LC04	Digital	MO	189	SN159093J	74-73N	DTL	LC04	Digital	DL
80	SN54390J	74-390N	TTL	LC11	Digital	DL	190	SN159093N	74-73N	DTL	LC04	Digital	DL
81	SN54390W	54-390W	TTL	LC11	Digital	MO	191	SN159093R	54-73W	DTL	LC04	Digital	FL
82	SN54393J	74-393N	TTL	LC11	Digital	DL	192	SN159094F	54-73W	DTL	LC04	Digital	FL
83	SN54393W	54-393W	TTL	LC11	Digital	MO	193	SN159094J	54-73W	DTL	LC04	Digital	DL
84	SN54490J	74-490N	TTL	LC11	Digital	DL	194	SN159094N	74-73N	DTL	LC04	Digital	DL
85	SN54490W	54-490W	TTL	LC11	Digital	MO	195	SN159094R	54-73W	DTL	LC04	Digital	FL
86 #	SN64107N	74-107N	TTL	LC04	Digital	DL	196 #	T54LS00D2	74-00N	TTL	LC05	Digital	DL
87	SN74100J	74-100N	TTL	LC26	Digital	MO	197 #	T54LS02D2	74-02N	TTL	LC05	Digital	DL
88	SN74100N	74-100N	TTL	LC26	Digital	DL	198 #	T54LS03D2	74-03N	TTL	LC05	Digital	DL
89	SN74104J	74-104N	TTL	LC04	Digital	DL	199 #	T54LS08D2	74-08N	TTL	LC05	Digital	DL
90	SN74104N	74-104N	TTL	LC04	Digital	DL	200 #	T54LS09D2	74-09N	TTL	LC05	Digital	DL
91	SN74105J	74-105N	TTL	LC04	Digital	DL	201 #	T54LS10D2	74-10N	TTL	LC05	Digital	DL
92	SN74105N	74-105N	TTL	LC04	Digital	DL	202 #	T54LS11D2	74-11N	TTL	LC05	Digital	DL
93	SN74107J	74-107N	TTL	LC04	Digital	DL	203 #	T54LS15D2	74H15N	TTL	LC05	Digital	DL
94	SN74107N	74-107N	TTL	LC04	Digital	DL	204 #	T54LS20D2	74-13N	TTL	LC05	Digital	DL
95	SN74109J	74-109N	TTL	LC04	Digital	DL	205 #	T54LS21D2	54LS21W	TTL	LC05	Digital	DL
96	SN74109N	74-109N	TTL	LC04	Digital	DL	206 #	T54LS26D2	74-03N	TTL	LC05	Digital	DL
97	SN74110J	74L71N	TTL	LC04	Digital	DL	207 #	T54LS27D2	74-27N	TTL	LC05	Digital	DL
98	SN74110N	74L71N	TTL	LC04	Digital	DL	208 #	T54LS30D2	74-30N	TTL	LC05	Digital	DL
99	SN74111J	74-111N	TTL	LC04	Digital	DL	209 #	T54LS32D2	74-32N	TTL	LC05	Digital	DL
100	SN74111N	74-111N	TTL	LC04	Digital	DL	210 #	T54LS51D2	74L51N	TTL	LC05	Digital	DL
101	SN7												

TYPE TO FUNCTIONAL EQUIVALENCE NUMBER

IN ORDER OF: (1) MFG TYPE NUMBER

LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GP E	LINE No.	MANUFACTURER TYPE NUMBER	FUNCTIONAL EQUIVALENCE NUMBER	TECH FMLY	USE CODE	BOOK NAME	PT KY GP E
1#	T74LS00D1	74-00N	TTL	LC05	Digital	DL	111#	TC4047BP	40-47	CMS	LC12	Digital	DL
2#	T74LS02B1	74-02N	TTL	LC05	Digital	DL	112#	TC4063BP	40-63B	CMS	LC17	Digital	DL
3#	T74LS02D1	74-02	TTL	LC05	Digital	DL	113#	TC4068BP	40-68B	CMS	LC05	Digital	DL
4#	T74LS03B1	74-03N	TTL	LC05	Digital	DL	114#	TC4071BP	40-71B	CMS	LC05	Digital	DL
5#	T74LS03D1	74-03N	TTL	LC05	Digital	DL	115#	TC4072BP	40-72B	CMS	LC05	Digital	DL
6#	T74LS08B1	74-08N	TTL	LC05	Digital	DL	116#	TC4073BP	40-73B	CMS	LC05	Digital	DL
7#	T74LS08D1	74-08N	TTL	LC05	Digital	DL	117#	TC4075BP	40-75B	CMS	LC05	Digital	DL
8#	T74LS09B1	74-09N	TTL	LC05	Digital	DL	118#	TC4078BP	40-78B	CMS	LC05	Digital	DL
9#	T74LS09D1	74-09N	TTL	LC05	Digital	DL	119#	TC4081BP	40-81B	CMS	LC05	Digital	DL
10#	T74LS10B1	74-10N	TTL	LC05	Digital	DL	120#	TC4082BP	40-82B	CMS	LC05	Digital	DL
11#	T74LS10D1	74-10N	TTL	LC05	Digital	DL	121#	TC4085BP	40-85B	CMS	LC05	Digital	DL
12#	T74LS11B1	74-11N	TTL	LC05	Digital	DL	122#	TC4086BP	40-86B	CMS	LC05	Digital	DL
13#	T74LS11D1	74-11N	TTL	LC05	Digital	DL	123#	TC4099BP	40-99B	CMS	LC26	Digital	DL
14#	T74LS15B1	74H15N	TTL	LC05	Digital	DL	124#	TC4516BP	45-16B	CMS	LC11	Digital	DL
15#	T74LS15D1	74H15N	TTL	LC05	Digital	DL	125#	TC4518BP	45-18B	CMS	LC11	Digital	DL
16#	T74LS20B1	74-13N	TTL	LC05	Digital	DL	126#	TC4520BP	45-20B	CMS	LC11	Digital	DL
17#	T74LS20D1	74-13N	TTL	LC05	Digital	DL	127#	TC4522BP	45-22B	CMS	LC11	Digital	DL
18#	T74LS21B1	54LS21W	TTL	LC05	Digital	DL	128#	TC4526BP	45-26B	CMS	LC11	Digital	DL
19#	T74LS21D1	54LS21W	TTL	LC05	Digital	DL	129#	TC4528BP	45-28	CMS	LC10	Digital	DL
20#	T74LS22B1	74-22N	TTL	LC05	Digital	DL	130#	TC4530BP	45-30	MOS	LC27	Digital	DL
21#	T74LS22D1	74-22N	TTL	LC05	Digital	DL	131#	TC4560BP	45-60B	CMS	LC15	Digital	DL
22#	T74LS26B1	74-03N	TTL	LC05	Digital	DL	132#	TC4572BP	45-72U	MOS	LC27	Digital	DL
23#	T74LS26D1	74-03N	TTL	LC05	Digital	DL	133#	TC4585BP	45-85B	CMS	LC17	Digital	DL
24#	T74LS27D1	74-27N	TTL	LC05	Digital	DL	134#	TC4700BP	74-00N	CMS	LC05	Digital	DL
25#	T74LS30B1	74-30N	TTL	LC05	Digital	DL	135#	TC4765BP	74LS76N	CMS	LC04	Digital	DL
26#	T74LS30D1	74-30N	TTL	LC05	Digital	DL	136#	TC40102BP	40-102	MOS	LC11	Digital	DL
27#	T74LS32B1	74-32N	TTL	LC05	Digital	DL	137#	TC40103BP	40-102	MOS	LC11	Digital	DL
28#	T74LS32D1	74-32N	TTL	LC05	Digital	DL	138#	TC40160BP	74-160N	CMS	LC11	Digital	DL
29#	T74LS51B1	74L51N	TTL	LC05	Digital	DL	139#	TC40161BP	74-161N	CMS	LC11	Digital	DL
30#	T74LS51D1	74L51N	TTL	LC05	Digital	DL	140#	TC40162BP	74-162N	CMS	LC11	Digital	DL
31#	T74LS54B1	74L54N	TTL	LC05	Digital	DL	141#	TC40163BP	74-163N	CMS	LC11	Digital	DL
32#	T74LS54D1	74L54N	TTL	LC05	Digital	DL	142#	TC40174BP	74-174	CMS	LC04	Digital	DL
33#	T74LS55B1	74L55N	TTL	LC05	Digital	DL	143#	TC40175BP	74-175	CMS	LC04	Digital	DL
34#	T74LS55D1	74L55N	TTL	LC05	Digital	DL	144#	TC40193BP	74-193N	CMS	LC11	Digital	DL
35#	T74LS74B1	74-74N	TTL	LC04	Digital	DL	145#	ZN5403E	74-03N	TTL	LC05	Digital	DL
36#	T74LS74D1	74-74N	TTL	LC04	Digital	DL	146#	ZN5403J	74-03N	TTL	LC05	Digital	DL
37#	T74LS83B1	74-83	TTL	LC15	Digital	DL	147#	ZN5408E	74-08N	TTL	LC05	Digital	DL
38#	T74LS83D1	74-83	TTL	LC15	Digital	DL	148#	ZN5408J	74-08N	TTL	LC05	Digital	DL
39#	T74LS86B1	74-86N	TTL	LC05	Digital	DL	149#	ZN5409E	74-09N	TTL	LC05	Digital	DL
40#	T74LS86D1	74-86N	TTL	LC05	Digital	DL	150#	ZN5409J	74-09N	TTL	LC05	Digital	DL
41#	T74LS109B1	74-109N	TTL	LC04	Digital	DL	151#	ZN5412E	74-12N	TTL	LC05	Digital	DL
42#	T74LS109D1	74-109N	TTL	LC04	Digital	DL	152#	ZN5412J	74-12N	TTL	LC05	Digital	DL
43#	T74LS112B1	74LS112N	TTL	LC04	Digital	DL	153#	ZN5425E	74-25N	TTL	LC05	Digital	DL
44#	T74LS112D1	74LS112N	TTL	LC04	Digital	DL	154#	ZN5425J	74-25N	TTL	LC05	Digital	DL
45#	T74LS113B1	74LS113N	TTL	LC04	Digital	DL	155#	ZN5427E	74-27N	TTL	LC05	Digital	DL
46#	T74LS113D1	74LS113N	TTL	LC04	Digital	DL	156#	ZN5427J	74-27N	TTL	LC05	Digital	DL
47#	T74LS114B1	74LS114N	TTL	LC04	Digital	DL	157#	ZN5428E	74-02N	TTL	LC05	Digital	DL
48#	T74LS114D1	74LS114N	TTL	LC04	Digital	DL	158#	ZN5428J	74-02N	TTL	LC05	Digital	DL
49#	T74LS136B1	74-136N	TTL	LC05	Digital	DL	159#	ZN5432E	74-32N	TTL	LC05	Digital	DL
50#	T74LS136D1	74-136N	TTL	LC05	Digital	DL	160#	ZN5432J	74-32N	TTL	LC05	Digital	DL
51#	T74LS283B1	74-283	TTL	LC15	Digital	DL	161#	ZN5438E	74-03N	TTL	LC05	Digital	DL
52#	TA6179W	40-20B	CMS	LC11	Digital	MO	162#	ZN5438J	74-03N	TTL	LC05	Digital	DL
53#	TC40H000P	40H000	CMS	LC05	Digital	DL	163#	ZN5442E	74-42N	TTL	LC06	Digital	DL
54#	TC40H002P	40H002	CMS	LC05	Digital	DL	164#	ZN5442J	74-42N	TTL	LC06	Digital	DL
55#	TC40H004P	40H004	CMS	LC05	Digital	DL	165#	ZN5486E	74-86N	TTL	LC05	Digital	DL
56#	TC40H008P	40H008	CMS	LC05	Digital	DL	166#	ZN5486J	74-86N	TTL	LC05	Digital	DL
57#	TC40H010P	40H010	CMS	LC05	Digital	DL	167#	ZN5492AE	74-92N	TTL	LC11	Digital	DL
58#	TC40H011P	40H011	CMS	LC05	Digital	DL	168#	ZN5492AJ	74-92N	TTL	LC11	Digital	DL
59#	TC40H020P	40H020	CMS	LC05	Digital	DL	169#	ZN5493AE	74LS93N	TTL	LC11	Digital	DL
60#	TC40H021P	40H021	CMS	LC05	Digital	DL	170#	ZN5493AJ	74LS93N	TTL	LC11	Digital	DL
61#	TC40H027P	40H027	CMS	LC05	Digital	DL	171#	ZN7403E	74-03N	TTL	LC05	Digital	DL
62#	TC40H032P	40H032	CMS	LC05	Digital	DL	172#	ZN7403J	74-03N	TTL	LC05	Digital	DL
63#	TC40H042P	40H042	CMS	LC06	Digital	DL	173#	ZN7408E	74-08N	TTL	LC05	Digital	DL
64#	TC40H051P	40H051	CMS	LC05	Digital	DL	174#	ZN7408J	74-08N	TTL	LC05	Digital	DL
65#	TC40H074P	40H074	CMS	LC04	Digital	DL	175#	ZN7409E	74-09N	TTL	LC05	Digital	DL
66#	TC40H076AP	40H076	CMS	LC04	Digital	DL	176#	ZN7409J	74-09N	TTL	LC05	Digital	DL
67#	TC40H076P	40H076	CMS	LC04	Digital	DL	177#	ZN7412E	74-12N	TTL	LC05	Digital	DL
68#	TC40H107AP	40-107B	CMS	LC04	Digital	DL	178#	ZN7412J	74-12N	TTL	LC05	Digital	DL
69#	TC40H107P	40-107B	CMS	LC04	Digital	DL	179#	ZN7425E	74-25N	TTL	LC05	Digital	DL
70#	TC40H138P	40H138	CMS	LC06	Digital	DL	180#	ZN7425J	74-25N	TTL	LC05	Digital	DL
71#	TC40H139P	40H139	CMS	LC06	Digital	DL	181#	ZN7427E	74-27N	TTL	LC05	Digital	DL
72#	TC40H155P	40H155	CMS	LC06	Digital	DL	182#	ZN7427J	74-27N	TTL	LC05	Digital	DL
73#	TC40H160P	40H160	CMS	LC11	Digital	DL	183#	ZN7428E	74-02N	TTL	LC05	Digital	DL
74#	TC40H161P	40H161	CMS	LC11	Digital	DL	184#	ZN7428J	74-02N	TTL	LC05	Digital	DL
75#	TC40H162P	40H162	CMS	LC11	Digital	DL	185#	ZN7432E	74-32N	TTL	LC05	Digital	DL
76#	TC40H163P	40H163	CMS	LC11	Digital	DL	186#	ZN7432J	74-32N	TTL	LC05	Digital	DL
77#	TC40H175P	40-175	CMS	LC04	Digital	DL	187#	ZN7438E	74-03N	TTL	LC05	Digital	DL
78#	TC40H192P	40H192	CMS	LC11	Digital	DL	188#	ZN7438J	74-03N	TTL	LC05	Digital	DL
79#	TC40H193P	40H193	CMS	LC11	Digital	DL	189#	ZN7442E	74-42N	TTL	LC06	Digital	DL
80#	TC40H259P	40H259	CMS	LC26	Digital	DL	190#	ZN7442J	74-42N	TTL	LC06	Digital	DL
81#	TC40H373P	40H373	CMS	LC26	Digital	DL	191#	ZN7486E	74-86N	TTL	LC05	Digital	DL
82#	TC40H374P	40H374	CMS	LC04	Digital	DL	192#	ZN7486J	74-86N	TTL	LC05	Digital	DL
83#	TC40H375P	40H375	CMS	LC26	Digital	DL	193#	ZN7490E	74-90N	TTL	LC11	Digital	DL
84#	TC40H386P	40H386	CMS	LC05	Digital	DL	194#	ZN7490F	54-90W	TTL	LC11	Digital	FL
85#	TC40H390P	40H390	CMS	LC11	Digital	DL	195#	ZN7492AE	74-92N	TTL	LC11	Digital	DL
86#	TC40H393P	40H393	CMS	LC11	Digital	DL	196#	ZN7492AJ	74-92N	TTL	LC11	Digital	DL
87#	TC4001BP	40-11B	CMS	LC05	Digital	DL	197#	ZN7492E	74-92N	TTL	LC11	Digital	DL
88#	TC4001UBP	40-11B	CMS	LC05	Digital	DL	198#	ZN7492F	54-92W	TTL	LC11	Digital	FL
89#	TC4002BP	40-12B	CMS	LC05	Digital	DL	199#	ZN7493AE	74LS93N	TTL	LC11	Digital	DL
90#	TC4011BP	40-11B	CMS	LC05	Digital	DL	200#	ZN7493AJ	74LS93N	TTL	LC11	Digital	DL
91#	TC4011UBP	40-11B	CMS	LC05	Digital	DL	201#	ZN7493E	74LS93N	TTL	LC11	Digital	DL
92#	TC4012BP	40-12B	CMS	LC05	Digital	DL	202#	ZN7493F	54LS93	TTL	LC11	Digital	FL
93#	TC4013BP	40-13B	CMS	LC04	Digital	DL	203#	ZN54122E	74-122	TTL	LC10	Digital	DL
94#	TC4017BP	40-17B	CMS	LC11	Digital	DL	204#	ZN54122J	74-122	TTL	LC10	Digital	DL
95#	TC4018BP	40-18B	CMS	LC11	Digital	DL	205#	ZN54123E	74-123	TTL	LC10	Digital	DL
96#	TC4020BP	40-20B	CMS	LC11	Digital	DL	206#	ZN54123J	74-123	TTL	LC10	Digital	DL
97#	TC4022BP	40-22B	CMS	LC11	Digital	DL	207#	ZN54154E	74-154N	TTL	LC06	Digital	DL
98#	TC4023BP	40-23B	CMS	LC05	Digital	DL	208#	ZN54154J	74-154N	TTL	LC06	Digital	DL
99#	TC4024BP	40-24B	CMS	LC11	Digital	DL	209#	ZN54155E	74-155N	TTL	LC06	Digital	DL
100#	TC4025BP	40-25B	CMS	LC05	Digital	DL	210#	ZN54155J	74-155N	TTL	LC06	Digital	DL
101#	TC4027BP	40-27B	CMS	LC04	Digital	DL	211#	ZN54161E	74-161N	TTL	LC11	Digital	DL
102#	TC4028BP												

GENERIC PRODUCT INDEX

IN ORDER OF: (1)GENERIC NO. (2)MFR TYPE NO.

LINE No.	1	GENERIC NO.	2	MANUFACTURER TYPE NO.	MFR. CODE	PRODUCT CLASS	PAGE & LINE	LINE No.	1	GENERIC NO.	2	MANUFACTURER TYPE NO.	MFR. CODE	PRODUCT CLASS	PAGE & LINE
1	1		HD1-6600-2	HAS	GATE	55-37	111	8H21	S8H21A	PHIN	FLIP FLOP	47-80			
2	1		HD1-6600-5	HAS	GATE	55-38	112	8H21	S8H21F	MULB	FLIP FLOP	47-81			
3	1		HD1-15530-2#mil	HAS	SPECIAL	184-82	113	8H21	S8H21F	PHIN	FLIP FLOP	47-81			
4	1		HD1-15530-9	HAS	SPECIAL	184-83	114	8H21	S8H21Q	MULB	FLIP FLOP	47-82			
5	1		HD1-15531-2#mil	HAS	SPECIAL	182-1	115	8H21	S8H21Q	PHIN	FLIP FLOP	47-82			
6	1		HD1-15531-9	HAS	SPECIAL	184-84	116	8H22	N8H22B	MULB	FLIP FLOP	47-80			
7	1		ZNFCM1CE	FERB	SPECIAL	184-78	117	8H22	N8H22B	PHIN	FLIP FLOP	47-60			
8	1F42		57558-1F42#mil	MMI	MULTIPLIER	163-58	118	8H22	N8H22E	MULB	FLIP FLOP	47-61			
9	1F42		67558-1F42	MMI	MULTIPLIER	163-62	119	8H22	N8H22E	PHIN	FLIP FLOP	47-61			
10	1J40		57558-1J40#mil	MMI	MULTIPLIER	163-59	120	8H22	S8H22B	MULB	FLIP FLOP	47-83			
11	1J40		67558-1J40	MMI	MULTIPLIER	163-63	121	8H22	S8H22B	PHIN	FLIP FLOP	47-83			
12	2		SXQ02	STK	CLOCK/MV	154-106	122	8H22	S8H22E	MULB	FLIP FLOP	47-84			
13	3		HD3-4702-2#mil	HAS	SPECIAL	182-29	123	8H22	S8H22E	PHIN	FLIP FLOP	47-84			
14	3		HD3-4702-9	HAS	SPECIAL	182-30	124	8H70	N8H70A	MULB	GATE	110-98			
15	4		HD4-4702-2#mil	HAS	SPECIAL	182-31	125	8H70	N8H70A	PHIN	GATE	110-98			
16	4		HD4-4702-9	HAS	SPECIAL	182-32	126	8H70	N8H70J	MULB	GATE	110-99			
17	4		HD4-6440-2#mil	HAS	DECODER	116-74	127	8H70	N8H70J	PHIN	GATE	110-99			
18	4		HD4-6440-9	HAS	DECODER	116-75	128	8H70	S8H70A	MULB	GATE	110-108			
19	4		HD4-15530-2#mil	HAS	SPECIAL	184-85	129	8H70	S8H70A	PHIN	GATE	110-108			
20	4		HD4-15530-9	HAS	SPECIAL	184-86	130	8H70	S8H70J	MULB	GATE	110-109			
21	4		HD4-15531-2#mil	HAS	SPECIAL	184-87	131	8H70	S8H70J	PHIN	GATE	110-109			
22	4		HD4-15531-9	HAS	SPECIAL	184-88	132	8H80	N8H80A	MULB	GATE	110-100			
23	5		EDS	STX	SPECIAL	184-44	133	8H80	N8H80A	PHIN	GATE	110-100			
24	5		RED5/6	SC	FREQ DIVID	156-61	134	8H80	N8H80J	MULB	GATE	110-101			
25	6		6N126	III	GATE	98-18	135	8H80	N8H80J	PHIN	GATE	110-110			
26	6		6N127	III	GATE	98-19	136	8H80	S8H80A	MULB	GATE	110-110			
27	6		6N128	III	GATE	110-67	137	8H80	S8H80A	PHIN	GATE	110-110			
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90	25LS181	AM25LS181FM	AMD	ALU	169- 28	200	40H193	TC40H193P	TOSJ	COUNTER	132- 80
91	25LS181	AM25LS181PC	AMD	ALU	169- 29	201	40H259	TC40H259P	TOSJ	LATCHES	175-101
92	25LS190	AM25LS190DC	AMD	COUNTER	142- 5	202	40H373	TC40H373P	TOSJ	LATCHES	175- 91
93	25LS190	AM25LS190DM	AMD	COUNTER	142- 6	203	40H374	TC40H374P	TOSJ	FLIP FLOP	37- 1
94	25LS190	AM25LS190FM	AMD	COUNTER	142- 7	204	40H375	TC40H375P	TOSJ	LATCHES	174- 55
95	25LS190	AM25LS190PC	AMD	COUNTER	142- 8	205	40H386	TC40H386P	TOSJ	GATE	65- 10
96	25LS191	AM25LS191DC	AMD	COUNTER	147- 76	206	40H390	TC40H390P	TOSJ	COUNTER	130- 71
97	25LS191	AM25LS191DM	AMD	COUNTER	147- 77	207	40H393	TC40H393P	TOSJ	COUNTER	134- 20
98	25LS191	AM25LS191FM	AMD	COUNTER	147- 78	208	41	RG41CJ	RTN	GATE	109- 63
99	25LS191	AM25LS191PC	AMD	COUNTER	147- 79	209	41	RG41CK	RTN	GATE	109- 64
100	25LS192	AM25LS192DC	AMD	COUNTER	142- 88	210	41	RG41DC	RTN	GATE	109- 65
101	25LS192	AM25LS192DM	AMD	COUNTER	142- 89	211	42	RG42CJ	RTN	GATE	109- 66
102	25LS192	AM25LS192FM	AMD	COUNTER	142- 90	212	42	RG42CK	RTN	GATE	109- 67
103	25LS192	AM25LS192PC	AMD	COUNTER	142- 91	213	42	RG42DC	RTN	GATE	109- 68
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2	50	RG50CK	RTN	GATE	89-57	112	54	SN54ALS08J#mil	TII	GATE	80-56
3	50	RG50DC	RTN	GATE	88-58	113	54	SN54ALS08N	MOTA	GATE	80-57
4	51	ZSD51A	FERRB	GATE	70-87	114	54	SN54ALS09J	TII	GATE	80-58
5	51	ZSF51B	FERRB	FLIP FLOP	37-50	115	54	SN54ALS09J#	MOTA	GATE	80-59
6	51	ZSF51CT	FERRB	FLIP FLOP	37-51	116	54	SN54ALS09N	MOTA	GATE	80-60
7	51	ZSS51A	FERRB	GATE	67-65	117	54	SN54ALS10J#	MOTA	GATE	106-60
8	51	ZSS51B	FERRB	GATE	67-66	118	54	SN54ALS10J#mil	TII	GATE	106-61
9	51	ZST51A	FERRB	GATE	67-81	119	54	SN54ALS10N	MOTA	GATE	106-62
10	51	RF51CJ	RTN	FLIP FLOP	48-14	120	54	SN54ALS11J#	MOTA	GATE	80-61
11	51	RF51CK	RTN	FLIP FLOP	48-15	121	54	SN54ALS11J#mil	TII	GATE	80-62
12	51	RF51DC	RTN	FLIP FLOP	48-16	122	54	SN54ALS11N	MOTA	GATE	80-63
13	51	RG51CJ	RTN	GATE	88-59	123	54	SN54ALS12J	MOTA	GATE	106-63
14	51	RG51CK	RTN	GATE	88-60	124	54	SN54ALS12N	MOTA	GATE	106-64
15	51	RG51DC	RTN	GATE	88-61	125	54	SN54ALS15J	TII	GATE	80-64
16	52	ZST52A	FERRB	GATE	67-82	126	54	SN54ALS15J#	MOTA	GATE	80-65
17	52	ZST52B	FERRB	GATE	67-83	127	54	SN54ALS15N	MOTA	GATE	80-66
18	52	RF52CJ	RTN	FLIP FLOP	48-17	128	54	SN54ALS20J#	MOTA	GATE	106-65
19	52	RF52CK	RTN	FLIP FLOP	48-18	129	54	SN54ALS20J#mil	TII	GATE	106-66
20	52	RF52DC	RTN	FLIP FLOP	48-19	130	54	SN54ALS20N	MOTA	GATE	106-67
21	52	RG52CJ	RTN	GATE	88-50	131	54	SN54ALS21J#	MOTA	GATE	80-67
22	52	RG52CK	RTN	GATE	88-51	132	54	SN54ALS21J#mil	TII	GATE	80-68
23	52	RG52DC	RTN	GATE	88-52	133	54	SN54ALS22J#	MOTA	GATE	106-68
24	53	ZSS53A	FERRB	GATE	67-67	134	54	SN54ALS22J#mil	TII	GATE	106-69
25	53	ZSS53B	FERRB	GATE	67-68	135	54	SN54ALS27J	MOTA	GATE	92-60
26	53	ZST53A	FERRB	GATE	67-84	136	54	SN54ALS27J#mil	TII	GATE	92-61
27	53	ZST53B	FERRB	GATE	67-85	137	54	SN54ALS27N	MOTA	GATE	92-62
28	53	RF53CJ	RTN	FLIP FLOP	48-20	138	54	SN54ALS28J	TII	GATE	92-63
29	53	RF53CK	RTN	FLIP FLOP	48-21	139	54	SN54ALS30J#mil	TII	GATE	106-70
30	53	RF53DC	RTN	FLIP FLOP	48-22	140	54	SN54ALS32J#mil	TII	GATE	88-27
31	53	RG53CJ	RTN	GATE	88-53	141	54	SN54ALS33J#mil	TII	GATE	92-64
32	53	RG53CK	RTN	GATE	88-54	142	54	SN54ALS37J	TII	GATE	106-71
33	53	RG53DC	RTN	GATE	88-55	143	54	SN54ALS38J	TII	GATE	106-72
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35	54	54HCT373C	STX	LATCHES	175-70	145	54	SN54ALS74J#mil	MOTA	FLIP FLOP	54-66
36	54	54HCT373D	STX	LATCHES	175-71	146	54	SN54ALS74N	MOTA	FLIP FLOP	54-31
37	54	54HCT374C	STX	FLIP FLOP	36-16	147	54	SN54ALS74W	TII	FLIP FLOP	53-2
38	54	54HCT374D	STX	FLIP FLOP	36-17	148	54	SN54ALS108J#mil	MOTA	FLIP FLOP	49-31
39	54	54HCT533C	STX	LATCHES	175-72	149	54	SN54ALS109J#mil	TII	FLIP FLOP	49-31
40	54	54HCT534C	STX	FLIP FLOP	36-18	150	54	SN54ALS112J#mil	TII	FLIP FLOP	34-7
41	54	54HCT534D	STX	FLIP FLOP	36-19	151	54	SN54ALS113J#mil	TII	FLIP FLOP	34-8
42	54	54HCT563C	STX	LATCHES	175-73	152	54	SN54ALS114J#mil	TII	FLIP FLOP	34-9
43	54	54HCT563D	STX	LATCHES	175-74	153	54	SN54ALS133J#mil	TII	GATE	106-73
44	54	54HCT564C	STX	FLIP FLOP	36-20	154	54	SN54ALS160J	MOTA	COUNTER	144-46
45	54	54HCT564D	STX	FLIP FLOP	36-21	155	54	SN54ALS160N	MOTA	COUNTER	144-47
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47	54	54HCT573D	STX	LATCHES	175-76	157	54	SN54ALS161N	MOTA	COUNTER	144-49
48	54	54HCT574C	STX	FLIP FLOP	36-22	158	54	SN54ALS162J	MOTA	COUNTER	144-50
49	54	54HCT574D	STX	FLIP FLOP	36-23	159	54	SN54ALS162N	MOTA	COUNTER	144-51
50	54	MC54HC00J#mil	MOTA	GATE	64-92	160	54	SN54ALS163J	MOTA	COUNTER	144-52
51	54	MC54HC02J#mil	MOTA	GATE	61-57	161	54	SN54ALS163N	MOTA	COUNTER	144-53
52	54	MC54HC03J(A)	MOTA	GATE	61-107	162	54	SN54ALS190J	MOTA	COUNTER	144-34
53	54	MC54HC08BCAJ(A)	MOTA	GATE	55-41	163	54	SN54ALS190N	MOTA	COUNTER	144-35
54	54	MC54HC08BCAN(A)	MOTA	GATE	55-42	164	54	SN54ALS191J	MOTA	COUNTER	144-36
55	54	MC54HC10J#mil	MOTA	GATE	64-93	165	54	SN54ALS191N	MOTA	COUNTER	144-37
56	54	MC54HC20J(A)	MOTA	GATE	61-108	166	54	SN54ALS192J	MOTA	COUNTER	144-38
57	54	MC54HC27J(A)	MOTA	GATE	58-74	167	54	SN54ALS192N	MOTA	COUNTER	144-39
58	54	MC54HC42J(A)	MOTA	DECODER	117-27	168	54	SN54ALS193J	MOTA	COUNTER	147-12
59	54	MC54HC51J(A)	MOTA	GATE	57-2	169	54	SN54ALS193N	MOTA	COUNTER	147-13
60	54	MC54HC58J(A)	MOTA	GATE	56-57	170	54	SN54ALS273J#mil	MOTA	FLIP FLOP	39-92
61	54	MC54HC73J(A)	MOTA	FLIP FLOP	34-89	171	54	SN54ALS377J#mil	MOTA	FLIP FLOP	54-67
62	54	MC54HC74J(A)	MOTA	FLIP FLOP	36-48	172	54	SN54ALS573J#mil	TII	LATCHES	179-92
63	54	MC54HC75J(A)	MOTA	LATCHES	174-11	173	54	SN54ALS574J#mil	TII	FLIP FLOP	34-23
64	54	MC54HC76J(A)	MOTA	FLIP FLOP	34-90	174	54	SN54ALS576J#mil	TII	FLIP FLOP	34-24
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66	54	MC54HC86J#mil	MOTA	GATE	65-79	176	54	SN54ALS696J#mil	MOTA	COUNTER	152-8
67	54	MC54HC107J(A)	MOTA	FLIP FLOP	34-91	177	54	SN54ALS697J#mil	MOTA	COUNTER	149-87
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69	54	MC54HC112J(A)	MOTA	FLIP FLOP	34-92	179	54	SN54ALS699J#mil	MOTA	COUNTER	149-88
70	54	MC54HC138J(A)	MOTA	DECODER	117-54	180	54	SN54ALS873J#mil	TII	LATCHES	178-42
71	54	MC54HC139J(A)	MOTA	DECODER	116-81	181	54	SN54ALS874J#mil	TII	FLIP FLOP	34-25
72	54	MC54HC160J#mil	MOTA	COUNTER	136-69	182	54	SN54ALS876J#mil	TII	FLIP FLOP	34-26
73	54	MC54HC161J#mil	MOTA	COUNTER	135-28	183	54	SN54ALS880J#mil	TII	LATCHES	178-53
74	54	MC54HC162J#mil	MOTA	COUNTER	136-70	184	54	SN54ALS1000J#mil	TII	GATE	106-74
75	54	MC54HC163J#mil	MOTA	COUNTER	135-29	185	54	SN54ALS1002J#mil	TII	GATE	92-65
76	54	MC54HC174J(A)	MOTA	FLIP FLOP	36-49	186	54	SN54ALS1003J#mil	TII	GATE	106-75
77	54	MC54HC175J(A)	MOTA	FLIP FLOP	36-50	187	54	SN54ALS1020J#mil	TII	GATE	106-76
78	54	MC54HC266J#mil	MOTA	GATE	55-1	188	54	SN54ALS181AJT#mil	TII	ALU	168-108
79	54	MC54HC273J(A)	MOTA	FLIP FLOP	36-51	189	54	SN54AS800J	TII	GATE	87-42
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81	54	MC54HC373J#mil	MOTA	LATCHES	176-27	191	54	SN54AS804J	TII	GATE	106-77
82	54	MC54HC374J(A)	MOTA	FLIP FLOP	36-52	192	54	SN54AS808J	TII	GATE	80-69
83	54	MC54HC390J(A)	MOTA	COUNTER	134-83	193	54	SN54AS832J	TII	GATE	88-28
84	54	MC54HC393J(A)	MOTA	COUNTER	134-84	194	54	SN54AS867FC#mil	TII	SPECIAL	183-37
85	54	MC54HC533J#mil	MOTA	LATCHES	176-28	195	54	SN54AS867JT	TII	COUNTER	149-68
86	54	MC54HC534J(A)	MOTA	FLIP FLOP	36-53	196	54	SN54AS867JT#mil	TII	COUNTER	149-69
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89	54	MC54HC4020J(A)	MOTA	COUNTER	134-85	199	54	SN54AS869JT#mil	TII	COUNTER	149-71
90	54	MC54HC4024J(A)	MOTA	COUNTER	134-86	200	54	SN54AS873	TII	LATCHES	178-24
91	54	MC54HC4040J(A)	MOTA	COUNTER	134-87	201	54	SN54AS873J#mil	TII	LATCHES	174-1
92	54	MC54HC4075J#mil	MOTA	GATE	58-71	202	54	SN54AS874JT	TII	LATCHES	178-25
93	54	MC54HC4514J(A)	MOTA	DECODER	116-82	203	54	SN54AS876JT#mil	TII	FLIP FLOP	54-32
94	54	MC54HC4538J(A)	MOTA	CLOCK/MV	155-89	204	54	SN54AS880	TII	LATCHES	178-26
95	54	MC54HC4004J(A)	MOTA	GATE	66-13	205	54	SN54AS880JT#mil	TII	LATCHES	178-27
96	54	ZST54A	FERRB	GATE	67-86	206	54	SN54AS881AJT#mil	TII	ALU	169-1
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98	54	SN54ALS00J#mil	TII	GATE	106-54	208	54	SN54AS882NT(A)	TII	CARRY GEN	171-3
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100	54	SN54ALS01J#mil	TII	GATE	106-56	210	54	SN54AS885JT#mil	TII	MAGN COMP	166-104
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105	54	SN54ALS03J#mil	TII	GATE	106-58	215	54	MM54HC30J(A)	NSC	GATE	61-95
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12	54C86	MM54C86D	NSC	GATE	64-101	122	54F160	54F160DM	FSC	COUNTER	143- 31
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46	54F04	MC54F04J(A)	MOTA	GATE	75- 90	156	54F373	S54F373F	SIC	LATCHES	179- 73
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48	54F04	S54F04F	SIC	GATE	115- 59	158	54F374	54F374DM	FSC	FLIP FLOP	51- 11
49	54F04	S54F04F	VALG	GATE	115- 59	159	54F374	54F374FM	FSC	FLIP FLOP	51- 12
50	54F04	S54F04W	SIC	GATE	115- 60	160	54F374	MC54F374J(A)	MOTA	FLIP FLOP	53- 73
51	54F04	S54F04W	VALG	GATE	115- 60	161	54F374	MC54F374N(A)	MOTA	FLIP FLOP	53- 74
52	54F08	54F08DM	FSC	GATE	77- 45	162	54F374	S54F374F	SIC	FLIP FLOP	54- 20
53	54F08	54F08FM	FSC	GATE	77- 46	163	54F374	S54F374F	VALG	FLIP FLOP	54- 20
54	54F08	MC54F08J	MOTA	GATE	75- 62	164	54F521	MC54F521J(A)	MOTA	MAGN COMP	165- 93
55	54F08	MC54F08N	MOTA	GATE	75- 63	165	54F521	MC54F521N(A)	MOTA	MAGN COMP	165- 94
56	54F08	S54F08F	SIC	GATE	80- 11	166	54F521	S54F521F	SIC	MAGN COMP	165- 97
57	54F08	S54F08F	VALG	GATE	80- 11	167	54F521	S54F521F	VALG	MAGN COMP	165- 97
58	54F08	S54F08W	SIC	GATE	80- 12	168	54F521	S54F521W	SIC	MAGN COMP	165- 98
59	54F08	S54F08W	VALG	GATE	80- 12	169	54F521	S54F521W	VALG	MAGN COMP	165- 98
60	54F10	54F10DM	FSC	GATE	98- 22	170	54F533	54F533DM	FSC	LATCHES	179- 55
61	54F10	54F10FM	FSC	GATE	98- 23	171	54F533	54F533FM	FSC	LATCHES	179- 56
62	54F10	MC54F10J(A)	MOTA	GATE	75- 80	172	54F533	MC54F533J(A)	MOTA	LATCHES	179- 79
63	54F10	MC54F10N(A)	MOTA	GATE	75- 81	173	54F533	MC54F533N(A)	MOTA	LATCHES	179- 80
64	54F10	S54F10F	VALG	GATE	105- 43	174	54F533	S54F533F	SIC	LATCHES	179- 50
65	54F10	S54F10W	VALG	GATE	105- 44	175	54F533	S54F533F	VALG	LATCHES	179- 50
66	54F11	54F11DM	FSC	GATE	77- 47	176	54F533	S54F533W	SIC	LATCHES	179- 51
67	54F11	54F11FM	FSC	GATE	77- 48	177	54F533	S54F533W	VALG	LATCHES	179- 51
68	54F11	MC54F11J(A)	MOTA	GATE	75- 64	178	54F534	54F534DM	FSC	FLIP FLOP	51- 13
69	54F11	MC54F11N(A)	MOTA	GATE	75- 65	179	54F534	54F534FM	FSC	FLIP FLOP	51- 14
70	54F11	S54F11F	VALG	GATE	80- 13	180	54F534	S54F534F	SIC	FLIP FLOP	54- 21
71	54F11	S54F11W	VALG	GATE	80- 14	181	54F534	S54F534F	VALG	FLIP FLOP	54- 21
72	54F20	54F20DM	FSC	GATE	98- 24	182	54F534	S54F534W	SIC	FLIP FLOP	54- 22
73	54F20	54F20FM	FSC	GATE	98- 25	183	54F534	S54F534W	VALG	FLIP FLOP	54- 22
74	54F20	MC54F20J(A)	MOTA	GATE	75- 82	184	54H00	54H00DM	FSC	GATE	98- 26
75	54F20	MC54F20N(A)	MOTA	GATE	75- 83	185	54H00	54H00FM	FSC	GATE	98- 27
76	54F20	S54F20F	SIC	GATE	105- 45	186	54H00	SN54H00J	TII	GATE	106- 78
77	54F20	S54F20W	VALG	GATE	105- 45	187	54H00	SN54H00W	TII	GATE	106- 79
78	54F20	S54F20W	SIC	GATE	105- 46	188	54H00	DM54H00J	NSC	GATE	99- 16
79	54F20	S54F20W	VALG	GATE	105- 46	189	54H00	S54H00F	MULB	GATE	105- 47
80	54F32	54F32DM	FSC	GATE	87- 73	190	54H00	S54H00F	PHIN	GATE	105- 47
81	54F32	54F32FM	FSC	GATE	87- 74	191	54H00	S54H00F	VALG	GATE	105- 47
82	54F32	MC54F32J(A)	MOTA	GATE	75- 70	192	54H00	S54H00W	MULB	GATE	105- 48
83	54F32	MC54F32N(A)	MOTA	GATE	75- 71	193	54H00	S54H00W	PHIN	GATE	105- 48
84	54F32	S54F32F	SIC	GATE	88- 19	194	54H00	S54H00W	VALG	GATE	105- 48
85	54F32	S54F32F	VALG	GATE	88- 19	195	54H01	54H01DM	FSC	GATE	98- 28
86	54F32	S54F32W	SIC	GATE	88- 20	196	54H01	54H01FM	FSC	GATE	98- 29
87	54F32	S54F32W	VALG	GATE	88- 20	197	54H01	SN54H01J	TII	GATE	106- 80
88	54F64	54F64DM	FSC	GATE	83- 49	198	54H01	SN54H01J	TII	GATE	106- 81
89	54F64	54F64FM	FSC	GATE	83- 50	199	54H01	DM54H01J	NSC	GATE	99- 17
90	54F64	MC54F64J(A)	MOTA	GATE	87- 38	200	54H01	S54H01F	MULB	GATE	105- 49
91	54F64	MC54F64N(A)	MOTA	GATE	87- 39	201	54H01	S54H01F	PHIN	GATE	105- 49
92	54F64	S54F64F	SIC	GATE	82- 65	202	54H01	S54H01W	VALG	GATE	105- 49
93	54F64	S54F64F	VALG	GATE	82- 65	203	54H01	S54H01W	MULB	GATE	105- 50
94	54F64	S54F64W	SIC	GATE	82- 66	204	54H01	S54H01W	PHIN	GATE	105- 50
95	54F64	S54F64W	VALG	GATE	82- 66	205	54H01	S54H01W	VALG	GATE	105- 50
96	54F74	54F74DM	FSC	FLIP FLOP	51- 7	206	54H08	S54H08F	VALG	GATE	80- 15
97	54F74	54F74FM	FSC	FLIP FLOP	51- 8	207	54H08	S54H08W	MULB	GATE	80- 16
98	54F74	MC54F74J(A)	MOTA	FLIP FLOP	53- 69	208	54H08	S54H08W	PHIN	GATE	80- 16
99	54F74	MC54F74N(A)	MOTA	FLIP FLOP	53- 70	209	54H08	S54H08W	VALG	GATE	80- 16
100	54F74	S54F74F	SIC	FLIP FLOP	36- 5	210	54H08	54H08DM	FSC	GATE	75-100
101	54F74	S54F74F	VALG	FLIP FLOP	36- 5	211	54H08	54H08FM	FSC	GATE	75-101
102	54F74	S54F74W	SIC	FLIP FLOP	54- 19	212	54H08	DM54H08J	NSC	GATE	77- 80
103	54F74	S54F74W	VALG	FLIP FLOP	54- 19	213	54H08	S54H08F	MULB	GATE	80- 15
104	54F86	MC54F86J(A)	MOTA	GATE	112- 37	214	54H10	S54H10F	PHIN	GATE	80- 15
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8	54H11	S54H11F	VALG	GATE	80-17	118	54H55	S54H55F	VALG	GATE	114-10
9	54H11	S54H11W	MULB	GATE	80-18	119	54H55	S54H55W	MULB	GATE	86-40
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11	54H11	S54H11W	VALG	GATE	80-18	121	54H55	S54H55W	VALG	GATE	86-40
12	54H11	54H11DM	FSC	GATE	77-49	122	54H55	54H55FM	FSC	GATE	83-58
13	54H11	54H11FM	FSC	GATE	77-50	123	54H55	SN54H55J	TII	GATE	86-75
14	54H11	SN54H11J	TII	GATE	80-70	124	54H55	SN54H55W	TII	GATE	86-76
15	54H11	SN54H11W	TII	GATE	90-71	125	54H60	S54H60F	MULB	GATE	114-11
16	54H11	DM54H11J	NSC	GATE	77-81	126	54H60	S54H60F	PHIN	GATE	114-11
17	54H15	SN54H15J	TII	GATE	80-72	127	54H60	S54H60F	VALG	GATE	114-11
18	54H15	SN54H15W	TII	GATE	80-73	128	54H60	S54H60W	MULB	GATE	114-12
19	54H20	S54H20F	MULB	GATE	105-53	129	54H60	S54H60W	PHIN	GATE	114-12
20	54H20	S54H20F	PHIN	GATE	105-53	130	54H60	S54H60W	VALG	GATE	114-12
21	54H20	S54H20F	VALG	GATE	105-53	131	54H60	54H60FM	FSC	GATE	113-73
22	54H20	S54H20W	MULB	GATE	105-54	132	54H60	SN54H60J	TII	GATE	114-27
23	54H20	S54H20W	PHIN	GATE	105-54	133	54H60	SN54H60W	TII	GATE	114-28
24	54H20	S54H20W	VALG	GATE	105-54	134	54H61	S54H61F	MULB	GATE	114-13
25	54H20	54H20DM	FSC	GATE	98-32	135	54H61	S54H61F	PHIN	GATE	114-13
26	54H20	54H20FM	FSC	GATE	98-33	136	54H61	S54H61F	VALG	GATE	114-13
27	54H20	SN54H20J	TII	GATE	106-84	137	54H61	S54H61W	MULB	GATE	114-14
28	54H20	SN54H20W	TII	GATE	106-85	138	54H61	S54H61W	PHIN	GATE	114-14
29	54H20	DM54H20J	NSC	GATE	99-19	139	54H61	S54H61W	VALG	GATE	114-14
30	54H21	S54H21F	MULB	GATE	80-19	140	54H61	54H61DM	FSC	GATE	113-74
31	54H21	S54H21F	PHIN	GATE	80-19	141	54H61	54H61FM	FSC	GATE	113-75
32	54H21	S54H21F	VALG	GATE	80-19	142	54H61	SN54H61J	TII	GATE	114-29
33	54H21	S54H21W	MULB	GATE	80-20	143	54H61	SN54H61W	TII	GATE	114-30
34	54H21	S54H21W	PHIN	GATE	80-20	144	54H62	S54H62F	MULB	GATE	114-15
35	54H21	S54H21W	VALG	GATE	80-20	145	54H62	S54H62F	PHIN	GATE	114-15
36	54H21	54H21DM	FSC	GATE	77-51	146	54H62	S54H62F	VALG	GATE	114-15
37	54H21	54H21FM	FSC	GATE	77-52	147	54H62	54H62FM	FSC	GATE	113-76
38	54H21	SN54H21J	TII	GATE	80-74	148	54H62	S54H62W	MULB	GATE	114-16
39	54H21	SN54H21W	TII	GATE	80-75	149	54H62	S54H62W	PHIN	GATE	114-16
40	54H21	DM54H21J	NSC	GATE	77-82	150	54H62	S54H62W	VALG	GATE	114-16
41	54H22	S54H22F	MULB	GATE	105-55	151	54H62	SN54H62J	TII	GATE	114-31
42	54H22	S54H22F	PHIN	GATE	105-55	152	54H62	SN54H62W	TII	GATE	114-32
43	54H22	S54H22F	VALG	GATE	105-55	153	54H62	DM54H62J	NSC	GATE	113-85
44	54H22	S54H22W	MULB	GATE	105-56	154	54H71	54H71FM	FSC	FLIP FLOP	42-46
45	54H22	S54H22W	PHIN	GATE	105-56	155	54H71	54H71F	MULB	FLIP FLOP	45-93
46	54H22	S54H22W	VALG	GATE	105-56	156	54H71	S54H71F	PHIN	FLIP FLOP	45-93
47	54H22	54H22DM	FSC	GATE	98-34	157	54H71	S54H71F	VALG	FLIP FLOP	45-93
48	54H22	54H22FM	FSC	GATE	98-35	158	54H71	S54H71W	MULB	FLIP FLOP	45-94
49	54H22	SN54H22J	TII	GATE	106-86	159	54H71	S54H71W	PHIN	FLIP FLOP	45-94
50	54H22	SN54H22W	TII	GATE	106-87	160	54H71	S54H71W	VALG	FLIP FLOP	45-94
51	54H30	S54H30F	MULB	GATE	105-57	161	54H71	SN54H71J	TII	FLIP FLOP	46-39
52	54H30	S54H30F	PHIN	GATE	105-57	162	54H71	SN54H71W	TII	FLIP FLOP	46-40
53	54H30	S54H30F	VALG	GATE	105-57	163	54H72	54H72DM	FSC	FLIP FLOP	42-47
54	54H30	S54H30W	MULB	GATE	105-58	164	54H72	54H72FM	FSC	FLIP FLOP	42-48
55	54H30	S54H30W	PHIN	GATE	105-58	165	54H72	S54H72F	MULB	FLIP FLOP	45-95
56	54H30	S54H30W	VALG	GATE	105-58	166	54H72	S54H72F	PHIN	FLIP FLOP	45-95
57	54H30	54H30DM	FSC	GATE	98-36	167	54H72	S54H72F	VALG	FLIP FLOP	45-95
58	54H30	54H30FM	FSC	GATE	98-37	168	54H72	S54H72W	MULB	FLIP FLOP	45-96
59	54H30	SN54H30J	TII	GATE	106-88	169	54H72	S54H72W	PHIN	FLIP FLOP	45-96
60	54H30	SN54H30W	TII	GATE	106-89	170	54H72	S54H72W	VALG	FLIP FLOP	45-96
61	54H30	DM54H30J	NSC	GATE	99-20	171	54H72	SN54H72J	TII	FLIP FLOP	46-41
62	54H40	SN54H40J	TII	GATE	106-90	172	54H72	SN54H72W	TII	FLIP FLOP	46-42
63	54H40	SN54H40W	TII	GATE	106-91	173	54H73	54H73DM	FSC	FLIP FLOP	42-49
64	54H40	DM54H40J	NSC	GATE	99-21	174	54H73	54H73FM	FSC	FLIP FLOP	42-50
65	54H50	S54H50F	MULB	GATE	114-4	175	54H73	S54H73F	MULB	FLIP FLOP	45-97
66	54H50	S54H50F	PHIN	GATE	114-4	176	54H73	S54H73F	PHIN	FLIP FLOP	45-97
67	54H50	S54H50F	VALG	GATE	114-4	177	54H73	S54H73F	VALG	FLIP FLOP	45-97
68	54H50	S54H50W	MULB	GATE	114-5	178	54H73	S54H73W	MULB	FLIP FLOP	45-98
69	54H50	S54H50W	PHIN	GATE	114-5	179	54H73	S54H73W	PHIN	FLIP FLOP	45-98
70	54H50	S54H50W	VALG	GATE	114-5	180	54H73	S54H73W	VALG	FLIP FLOP	45-98
71	54H50	54H50DM	FSC	GATE	83-51	181	54H73	SN54H73J	TII	FLIP FLOP	46-43
72	54H50	54H50FM	FSC	GATE	83-52	182	54H73	SN54H73W	TII	FLIP FLOP	46-44
73	54H50	SN54H50J	TII	GATE	86-67	183	54H74	54H74DM	FSC	FLIP FLOP	51-15
74	54H50	SN54H50W	TII	GATE	86-68	184	54H74	54H74FM	FSC	FLIP FLOP	51-16
75	54H50	DM54H50J	NSC	GATE	83-93	185	54H74	54H74F	MULB	FLIP FLOP	52-57
76	54H51	S54H51F	MULB	GATE	86-36	186	54H74	S54H74F	PHIN	FLIP FLOP	52-57
77	54H51	S54H51F	PHIN	GATE	86-36	187	54H74	S54H74F	VALG	FLIP FLOP	52-57
78	54H51	S54H51F	VALG	GATE	86-36	188	54H74	S54H74W	MULB	FLIP FLOP	52-58
79	54H51	S54H51W	MULB	GATE	86-37	189	54H74	S54H74W	PHIN	FLIP FLOP	52-58
80	54H51	S54H51W	PHIN	GATE	86-37	190	54H74	S54H74W	VALG	FLIP FLOP	52-58
81	54H51	S54H51W	VALG	GATE	86-37	191	54H74	SN54H74J	TII	FLIP FLOP	53-3
82	54H51	54H51DM	FSC	GATE	83-53	192	54H74	SN54H74W	TII	FLIP FLOP	53-4
83	54H51	54H51FM	FSC	GATE	83-54	193	54H74	DM54H74J	NSC	FLIP FLOP	51-57
84	54H51	SN54H51J	TII	GATE	86-69	194	54H76	54H76FM	FSC	FLIP FLOP	42-51
85	54H51	SN54H51W	TII	GATE	86-70	195	54H76	S54H76F	MULB	FLIP FLOP	46-1
86	54H52	S54H52F	MULB	GATE	114-6	196	54H76	S54H76F	PHIN	FLIP FLOP	46-1
87	54H52	S54H52F	PHIN	GATE	114-6	197	54H76	S54H76F	VALG	FLIP FLOP	46-1
88	54H52	S54H52F	VALG	GATE	114-6	198	54H76	S54H76W	MULB	FLIP FLOP	46-2
89	54H52	S54H52W	MULB	GATE	114-7	199	54H76	S54H76W	PHIN	FLIP FLOP	46-2
90	54H52	S54H52W	PHIN	GATE	114-7	200	54H76	S54H76W	VALG	FLIP FLOP	46-2
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95	54H52	SN54H52W	TII	GATE	82-52	205	54H78	SN54H78W	TII	FLIP FLOP	46-48
96	54H53	S54H53F	MULB	GATE	114-8	206	54H87	54H87DM	FSC	SPECIAL	182-73
97	54H53	S54H53F	PHIN	GATE	114-8	207	54H87	54H87FM	FSC	SPECIAL	182-74
98	54H53	S54H53F	VALG	GATE	114-8	208	54H87	SN54H87J	TII	SPECIAL	182-82
99	54H53	S54H53W	MULB	GATE	114-9	209	54H87	SN54H87W	TII	SPECIAL	182-83
100	54H53	S54H53W	PHIN	GATE	114-9	210	54H101	54H101FM	FSC	FLIP FLOP	42-53
101	54H53	S54H53W	VALG	GATE	114-9	211	54H101	S54H101F	MULB	FLIP FLOP	46-3
102	54H53	54H53DM	FSC	GATE	83-55	212	54H101	S54H101F	PHIN	FLIP FLOP	46-3
103	54H53	54H53FM	FSC	GATE	82-70	213	54H101	S54H101F	VALG	FLIP FLOP	46-3
104	54H53	SN54H53J	TII	GATE	86-71	214	54H101	S54H101W	MULB	FLIP FLOP	46-4
105	54H53	SN54H53W	TII	GATE	86-72	215	54H101	S54H101W	PHIN	FLIP FLOP	46-4
106	54H54	S54H54F	MULB	GATE	86-38	216	54H101	S54H101W	VALG	FLIP FLOP	46-4
107	54H54	S54H54F	PHIN	GATE	86-38	217	54H101	SN54H101J	TII	FLIP FLOP	46-49
108	54H54	S54H54F	VALG	GATE	86-38	218	54H101	SN54H101W	TII	FLIP FLOP	46-50
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3	54H102	S54H102W	MULB	FLIP FLOP	46- 6	113	54L93	DM54L93W#mil	NSC	COUNTER	152- 44
4	54H102	S54H102W	PHIN	FLIP FLOP	46- 6	114	54L93	SN54L93J	TII	COUNTER	149- 95
5	54H102	S54H102W	VALG	FLIP FLOP	46- 6	115	54L93	SN54L93W	TII	COUNTER	150- 1
6	54H102	SN54H102J	TII	FLIP FLOP	46- 51	116	54L121	SN54L121J	TII	TIME DELAY	124- 43
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10	54H103	S54H103F	MULB	FLIP FLOP	46- 7	120	54L123	SN54L123J	TII	TIME DELAY	126- 50
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13	54H103	S54H103W	MULB	FLIP FLOP	46- 8	123	54L154	DM54L154AJ#mil	NSC	DECODER	120-102
14	54H103	S54H103W	PHIN	FLIP FLOP	46- 8	124	54L154	SN54L154J	TII	DECODER	120- 83
15	54H103	S54H103W	VALG	FLIP FLOP	46- 8	125	54L192	DM54L192J	NSC	COUNTER	140- 24
16	54H103	SN54H103J	TII	FLIP FLOP	46- 53	126	54L192	DM54L192J#mil	NSC	COUNTER	145- 17
17	54H103	SN54H103W	TII	FLIP FLOP	46- 54	127	54L192	DM54L192W#mil	NSC	COUNTER	140- 25
18	54H106	54H106DM	FSC	FLIP FLOP	42- 57	128	54L192	SN54L192J	TII	COUNTER	139- 98
19	54H106	54H106FM	FSC	FLIP FLOP	42- 58	129	54L193	DM54L193J	NSC	COUNTER	145- 18
20	54H106	S54H106F	MULB	FLIP FLOP	46- 9	130	54L193	DM54L193J#mil	NSC	COUNTER	145- 19
21	54H106	S54H106F	PHIN	FLIP FLOP	46- 9	131	54L193	DM54L193W#mil	NSC	COUNTER	145- 20
22	54H106	S54H106F	VALG	FLIP FLOP	46- 9	132	54L193	SN54L193J	TII	COUNTER	144- 89
23	54H106	S54H106W	MULB	FLIP FLOP	46- 10	133	54LS00	T54LS00D2	SGAI	GATE	98- 11
24	54H106	S54H106W	PHIN	FLIP FLOP	46- 10	134	54LS00	54LS00DM	FSC	GATE	94- 32
25	54H106	S54H106W	VALG	FLIP FLOP	46- 10	135	54LS00	54LS00FM	FSC	GATE	94- 33
26	54H106	SN54H106J	TII	FLIP FLOP	46- 55	136	54LS00	S54LS00F	MULB	GATE	97- 30
27	54H106	SN54H106W	TII	FLIP FLOP	46- 56	137	54LS00	S54LS00F	PHIN	GATE	97- 30
28	54H108	54H108DM	FSC	FLIP FLOP	42- 59	138	54LS00	S54LS00F	RTCF	GATE	97- 30
29	54H108	54H108FM	FSC	FLIP FLOP	42- 60	139	54LS00	S54LS00F	SIC	GATE	97- 30
30	54H108	S54H108F	MULB	FLIP FLOP	46- 11	140	54LS00	S54LS00F	VALG	GATE	97- 30
31	54H108	S54H108F	PHIN	FLIP FLOP	46- 11	141	54LS00	S54LS00W	MULB	GATE	97- 31
32	54H108	S54H108F	VALG	FLIP FLOP	46- 11	142	54LS00	S54LS00W	PHIN	GATE	97- 31
33	54H108	S54H108W	MULB	FLIP FLOP	46- 12	143	54LS00	S54LS00W	RTCF	GATE	97- 31
34	54H108	S54H108W	PHIN	FLIP FLOP	46- 12	144	54LS00	S54LS00W	SIC	GATE	97- 31
35	54H108	SN54H108J	TII	FLIP FLOP	46- 57	145	54LS00	S54LS00W	VALG	GATE	97- 31
36	54H108	SN54H108W	TII	FLIP FLOP	46- 58	146	54LS00	SN54LS00J	MOTA	GATE	97- 67
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40	54L00	SN54L00J	TII	GATE	97- 59	150	54LS01	S54LS01F	PHIN	GATE	97- 32
41	54L00	SN54L00W	TII	GATE	97- 60	151	54LS01	S54LS01F	RTCF	GATE	97- 32
42	54L00	DM54L00J	NSC	GATE	94- 47	152	54LS01	S54LS01F	VALG	GATE	97- 32
43	54L00	DM54L00W#mil	NSC	GATE	94- 48	153	54LS01	S54LS01W	MULB	GATE	97- 33
44	54L01	SN54L01W	TII	GATE	94- 30	154	54LS01	S54LS01W	PHIN	GATE	97- 33
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46	54L02	SN54L02W	TII	GATE	90- 38	156	54LS01	S54LS01W	VALG	GATE	97- 33
47	54L02	DM54L02J	NSC	GATE	89- 88	157	54LS01	SN54LS01J	MOTA	GATE	97- 69
48	54L02	DM54L02W#mil	NSC	GATE	89- 89	158	54LS01	SN54LS01J	TII	GATE	97- 69
49	54L03	SN54L03J	TII	GATE	94- 31	159	54LS01	SN54LS01W	TII	GATE	97- 70
50	54L03	DM54L03J	NSC	GATE	94- 49	160	54LS02	T54LS02D2	SGAI	GATE	90- 48
51	54L10	SN54L10J	TII	GATE	97- 61	161	54LS02	54LS02DM	FSC	GATE	89- 81
52	54L10	SN54L10W	TII	GATE	97- 62	162	54LS02	54LS02FM	FSC	GATE	89- 82
53	54L10	DM54L10J	NSC	GATE	94- 50	163	54LS02	S54LS02F	MULB	GATE	90- 31
54	54L10	DM54L10W#mil	NSC	GATE	94- 51	164	54LS02	S54LS02F	PHIN	GATE	90- 31
55	54L20	SN54L20J	TII	GATE	97- 63	165	54LS02	S54LS02F	RTCF	GATE	90- 31
56	54L20	SN54L20W	TII	GATE	97- 64	166	54LS02	S54LS02F	SIC	GATE	90- 31
57	54L20	DM54L20J	NSC	GATE	94- 52	167	54LS02	S54LS02F	VALG	GATE	90- 31
58	54L20	DM54L20W#mil	NSC	GATE	94- 53	168	54LS02	S54LS02W	MULB	GATE	90- 32
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60	54L30	SN54L30W	TII	GATE	97- 66	170	54LS02	S54LS02W	RTCF	GATE	90- 32
61	54L30	DM54L30J	NSC	GATE	94- 54	171	54LS02	S54LS02W	SIC	GATE	90- 32
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64	54L42	DM54L42AJ	NSC	DECODER	119- 11	174	54LS02	SN54LS02J	TII	GATE	90- 39
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66	54L51	SN54L51J	TII	GATE	83- 34	176	54LS03	T54LS03D2	SGAI	GATE	98- 12
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68	54L54	DM54L54J	NSC	GATE	83- 19	178	54LS03	54LS03FM	FSC	GATE	94- 35
69	54L54	DM54L54W#mil	NSC	GATE	113- 71	179	54LS03	S54LS03F	MULB	GATE	97- 34
70	54L54	SN54L54J	TII	GATE	83- 36	180	54LS03	S54LS03F	PHIN	GATE	97- 34
71	54L54	SN54L54W	TII	GATE	83- 37	181	54LS03	S54LS03F	RTCF	GATE	97- 34
72	54L55	DM54L55J	NSC	GATE	83- 20	182	54LS03	S54LS03F	VALG	GATE	97- 34
73	54L55	DM54L55W#mil	NSC	GATE	113- 72	183	54LS03	S54LS03W	MULB	GATE	97- 35
74	54L55	SN54L55J	TII	GATE	83- 38	184	54LS03	S54LS03W	PHIN	GATE	97- 35
75	54L55	SN54L55W	TII	GATE	83- 39	185	54LS03	S54LS03W	RTCF	GATE	97- 35
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79	54L71	SN54L71W	TII	FLIP FLOP	49- 94	189	54LS03	SN54LS03W	TII	GATE	97- 72
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84	54L73	DM54L73J	NSC	FLIP FLOP	40- 69	194	54LS08	54LS08FM	FSC	GATE	76- 7
85	54L73	DM54L73W#mil	NSC	FLIP FLOP	47- 33	195	54LS08	S54LS08F	MULB	GATE	77- 20
86	54L73	SN54L73J	TII	FLIP FLOP	49- 50	196	54LS08	S54LS08F	PHIN	GATE	77- 20
87	54L73	SN54L73W	TII	FLIP FLOP	49- 51	197	54LS08	S54LS08F	RTCF	GATE	77- 20
88	54L74	DM54L74J	NSC	FLIP FLOP	50- 38	198	54LS08	S54LS08F	SIC	GATE	77- 20
89	54L74	DM54L74W#mil	NSC	FLIP FLOP	53- 28	199	54LS08	S54LS08F	VALG	GATE	77- 20
90	54L74	SN54L74J	TII	FLIP FLOP	50- 79	200	54LS08	S54LS08W	MULB	GATE	77- 21
91	54L74	SN54L74W	TII	FLIP FLOP	50- 80	201	54LS08	S54LS08W	PHIN	GATE	77- 21
92	54L75	DM54L75AJ#mil	NSC	LATCHES	179- 27	202	54LS08	S54LS08W	RTCF	GATE	77- 21
93	54L75	DM54L75AW#mil	NSC	LATCHES	179- 28	203	54LS08	S54LS08W	SIC	GATE	77- 21
94	54L75	SN54L75J	TII	LATCHES	178- 7	204	54LS08	S54LS08W	VALG	GATE	77- 21
95	54L77	SN54L77W	TII	LATCHES	178- 9	205	54LS08	SN54LS08J	MOTA	GATE	77- 30
96	54L78	DM54L78J	NSC	FLIP FLOP	40- 70	206	54LS08	SN54LS08J	TII	GATE	77- 30
97	54L78	DM54L78W#mil	NSC	FLIP FLOP	53- 29	207	54LS08	SN54LS08W	TII	GATE	77- 31
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102	54L85	SN54L85J	TII	MAGN COMP	168- 83	212	54LS09	S54LS09F	RTCF	GATE	77- 22
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71	54LS21	T54LS21D2	SGAI	GATE	77- 44	181	54LS42	SN54LS42J	TII	DECODER	120- 33
72	54LS21	54LS21DM	FSC	GATE	76- 11	182	54LS42	SN54LS42W	TII	DECODER	120- 34
73	54LS21	54LS21FM	FSC	GATE	76- 12	183	54LS51	T54LS51D2	SGAI	GATE	83- 46
74	54LS21	54LS21F	MULB	GATE	77- 28	184	54LS51	54LS51DM	FSC	GATE	83- 13
75	54LS21	54LS21F	PHIN	GATE	77- 28	185	54LS51	54LS51FM	FSC	GATE	83- 14
76	54LS21	54LS21F	RTCF	GATE	77- 28	186	54LS51	54LS51F	MULB	GATE	83- 24
77	54LS21	54LS21F	VALG	GATE	77- 28	187	54LS51	54LS51F	PHIN	GATE	83- 24
78	54LS21	54LS21W	MULB	GATE	77- 29	188	54LS51	54LS51F	RTCF	GATE	83- 24
79	54LS21	54LS21W	PHIN	GATE	77- 29	189	54LS51	54LS51F	SIC	GATE	83- 24
80	54LS21	54LS21W	RTCF	GATE	77- 29	190	54LS51	54LS51F	VALG	GATE	83- 24
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82	54LS21	SN54LS21J	MOTA	GATE	77- 38	192	54LS51	54LS51W	PHIN	GATE	83- 25
83	54LS21	SN54LS21J	TII	GATE	77- 38	193	54LS51	54LS51W	RTCF	GATE	83- 25
84	54LS21	SN54LS21W	TII	GATE	77- 39	194	54LS51	54LS51W	SIC	GATE	83- 25
85	54LS22	T54LS22D2	SGAI	GATE	98- 15	195	54LS51	54LS51W	VALG	GATE	83- 25
86	54LS22	54LS22FM	FSC	GATE	94- 40	196	54LS51	SN54LS51J	MOTA	GATE	83- 40
87	54LS22	54LS22F	MULB	GATE	97- 42	197	54LS51	SN54LS51J	TII	GATE	83- 40
88	54LS22	54LS22F	PHIN	GATE	97- 42	198	54LS51	SN54LS51W	TII	GATE	83- 41
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90	54LS22	54LS22W	MULB	GATE	97- 43	200	54LS54	54LS54DM	FSC	GATE	83- 15
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93	54LS22	SN54LS22J	MOTA	GATE	97- 79	203	54LS54	54LS54F	PHIN	GATE	83- 26
94	54LS22	SN54LS22J	TII	GATE	97- 79	204	54LS54	54LS54F	RTCF	GATE	83- 26
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97	54LS24	SN54LS24W#mil	TII	GATE	108- 102	207	54LS54	54LS54W	PHIN	GATE	83- 27
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99	54LS26	54LS26DM	FSC	GATE	94- 41	209	54LS54	54LS54W	VALG	GATE	83- 27
100	54LS26	54LS26FM	FSC	GATE	94- 42	210	54LS54	SN54LS54J	MOTA	GATE	83- 42
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105	54LS26	54LS26W	MULB	GATE	97- 45	215	54LS55	54LS55F	MULB	GATE	83- 28
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11	54LS73	S54LS73W	RTCF	FLIP FLOP	42- 4	121	54LS85	SN54LS85W	TII	MAGN COMP	166- 45
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16	54LS73	SN54LS73AW	TII	FLIP FLOP	42- 24	126	54LS86	S54LS86F	SIC	GATE	111- 46
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20	54LS74	S54LS74AF	SIC	FLIP FLOP	53- 35	130	54LS86	S54LS86W	RTCF	GATE	111- 47
21	54LS74	S54LS74AW	SIC	FLIP FLOP	53- 36	131	54LS86	S54LS86W	SIC	GATE	111- 47
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25	54LS74	S54LS74F	SIC	FLIP FLOP	50- 75	135	54LS86	SN54LS86W	TII	GATE	111- 56
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28	54LS74	S54LS74W	PHIN	FLIP FLOP	50- 76	138	54LS90	S54LS90F	FSC	COUNTER	142- 32
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31	54LS74	S54LS74W	VALG	FLIP FLOP	50- 76	141	54LS90	S54LS90F	RTCF	COUNTER	140- 45
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44	54LS75	S54LS75W	VALG	LATCHES	177- 55	154	54LS92	S54LS92F	FSC	COUNTER	153- 25
45	54LS75	SN54LS75J	MOTA	LATCHES	177- 59	155	54LS92	S54LS92F	MULB	COUNTER	153- 21
46	54LS75	SN54LS75J	TII	LATCHES	177- 59	156	54LS92	S54LS92F	PHIN	COUNTER	153- 21
47	54LS75	SN54LS75W	TII	LATCHES	177- 60	157	54LS92	S54LS92F	RTCF	COUNTER	153- 21
48	54LS76	54LS76DM	FSC	FLIP FLOP	40- 56	158	54LS92	S54LS92F	SIC	COUNTER	153- 21
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50	54LS76	S54LS76F	MULB	FLIP FLOP	42- 5	160	54LS92	S54LS92W	MULB	COUNTER	153- 22
51	54LS76	S54LS76F	PHIN	FLIP FLOP	42- 5	161	54LS92	S54LS92W	PHIN	COUNTER	153- 22
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53	54LS76	S54LS76F	SIC	FLIP FLOP	42- 5	163	54LS92	S54LS92W	SIC	COUNTER	153- 22
54	54LS76	S54LS76F	VALG	FLIP FLOP	42- 5	164	54LS92	S54LS92W	VALG	COUNTER	153- 22
55	54LS76	S54LS76W	MULB	FLIP FLOP	42- 6	165	54LS92	SN54LS92J	MOTA	COUNTER	153- 33
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58	54LS76	S54LS76W	SIC	FLIP FLOP	42- 6	168	54LS93	DM54LS93J#mil	NSC	COUNTER	152- 18
59	54LS76	S54LS76W	VALG	FLIP FLOP	42- 6	169	54LS93	DM54LS93W#mil	NSC	COUNTER	152- 19
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65	54LS77	S54LS77W	PHIN	LATCHES	177- 46	175	54LS93	S54LS93F	SIC	COUNTER	145- 57
66	54LS77	S54LS77W	SIC	LATCHES	177- 46	176	54LS93	S54LS93F	VALG	COUNTER	145- 57
67	54LS77	S54LS77W	VALG	LATCHES	177- 46	177	54LS93	S54LS93W	MULB	COUNTER	145- 58
68	54LS77	SN54LS77J	MOTA	LATCHES	177- 40	178	54LS93	S54LS93W	PHIN	COUNTER	145- 58
69	54LS77	SN54LS77W	TII	LATCHES	177- 41	179	54LS93	S54LS93W	RTCF	COUNTER	145- 58
70	54LS78	54LS78DM	FSC	FLIP FLOP	40- 58	180	54LS93	S54LS93W	SIC	COUNTER	145- 58
71	54LS78	54LS78FM	FSC	FLIP FLOP	40- 59	181	54LS93	S54LS93W	VALG	COUNTER	145- 58
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73	54LS78	S54LS78F	PHIN	FLIP FLOP	42- 7	183	54LS93	SN54LS93J	TII	COUNTER	150- 2
74	54LS78	S54LS78F	VALG	FLIP FLOP	42- 7	184	54LS93	SN54LS93W	TII	COUNTER	150- 3
75	54LS78	S54LS78W	MULB	FLIP FLOP	42- 8	185	54LS107	54LS107DM	FSC	FLIP FLOP	40- 60
76	54LS78	S54LS78W	PHIN	FLIP FLOP	42- 8	186	54LS107	54LS107FM	FSC	FLIP FLOP	40- 61
77	54LS78	S54LS78W	VALG	FLIP FLOP	42- 8	187	54LS107	S54LS107F	MULB	FLIP FLOP	42- 9
78	54LS78	SN54LS78AJ	MOTA	FLIP FLOP	42- 27	188	54LS107	S54LS107F	PHIN	FLIP FLOP	42- 9
79	54LS78	SN54LS78AJ	TII	FLIP FLOP	42- 27	189	54LS107	S54LS107F	SIC	FLIP FLOP	42- 9
80	54LS78	SN54LS78AW	TII	FLIP FLOP	42- 28	190	54LS107	S54LS107F	VALG	FLIP FLOP	42- 9
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84	54LS83	54LS83ADM	FSC	ADDER	161- 34	194	54LS107	S54LS107W	VALG	FLIP FLOP	42- 10
85	54LS83	54LS83AFM	FSC	ADDER	161- 35	195	54LS107	SN54LS107AJ	MOTA	FLIP FLOP	42- 29
86	54LS83	S54LS83AF	MULB	ADDER	161- 50	196	54LS107	SN54LS107AJ	TII	FLIP FLOP	42- 29
87	54LS83	S54LS83AF	PHIN	ADDER	161- 50	197	54LS107	SN54LS107AW	TII	FLIP FLOP	42- 30
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91	54LS83	S54LS83AW	MULB	ADDER	161- 51	201	54LS109	S54LS109F	MULB	FLIP FLOP	42- 11
92	54LS83	S54LS83AW	PHIN	ADDER	161- 51	202	54LS109	S54LS109F	PHIN	FLIP FLOP	42- 11
93	54LS83	S54LS83AW	RTCF	ADDER	161- 51	203	54LS109	S54LS109F	SIC	FLIP FLOP	42- 11
94	54LS83	S54LS83AW	SIC	ADDER	161- 51	204	54LS109	S54LS109F	VALG	FLIP FLOP	42- 11
95	54LS83	S54LS83AW	VALG	ADDER	161- 51	205	54LS109	S54LS109W	MULB	FLIP FLOP	42- 12
96	54LS83	S54LS83F	MULB	ADDER	161- 52	206	54LS109	S54LS109W	PHIN	FLIP FLOP	42- 12
97	54LS83	S54LS83F	PHIN	ADDER	161- 52	207	54LS109	S54LS109W	SIC	FLIP FLOP	42- 12
98	54LS83	S54LS83F	SIC	ADDER	161- 52	208	54LS109	S54LS109W	VALG	FLIP FLOP	42- 12
99	54LS83	S54LS83W	MULB	ADDER	161- 53	209	54LS109	SN54LS109AJ	MOTA	FLIP FLOP	42- 31
100	54LS83	S54LS83W	PHIN	ADDER	161- 53	210	54LS109	SN54LS109AJ	TII	FLIP FLOP	42- 31
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10	54LS113	S54LS113F	MULB	FLIP FLOP	42- 15	120	54LS162	S54LS162AF	PHIN	COUNTER	141- 57
11	54LS113	S54LS113F	PHIN	FLIP FLOP	42- 15	121	54LS162	S54LS162AF	SIC	COUNTER	141- 57
12	54LS113	S54LS113F	SIC	FLIP FLOP	42- 15	122	54LS162	S54LS162AF	VALG	COUNTER	141- 57
13	54LS113	S54LS113F	VALG	FLIP FLOP	42- 15	123	54LS162	S54LS162AW	MULB	COUNTER	141- 58
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19	54LS113	SN54LS113AJ	TII	FLIP FLOP	42- 35	129	54LS162	SN54LS162AW	TII	COUNTER	142- 48
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90	54LS221	S54LS221W	VALG	TIME DELAY	127- 4	200	54LS290	54LS290DM		FSC	COUNTER	151- 71
91	54LS221	SN54LS221J	MOTA	TIME DELAY	127- 70	201	54LS290	54LS290FM		FSC	COUNTER	151- 72
92	54LS221	SN54LS221J	TII	TIME DELAY	127- 70	202	54LS290	54LS290F		MULB	COUNTER	142- 26
93	54LS221	SN54LS221W	TII	TIME DELAY	127- 27	203	54LS290	54LS290F		PHIN	COUNTER	142- 26
94	54LS240	SN54LS240J	MMI	DECODER	117-100	204	54LS290	54LS290F		RTCF	COUNTER	142- 26
95	54LS241	SN54LS241J	MMI	DECODER	117-101	205	54LS290	54LS290F		SIC	COUNTER	142- 26
96	54LS256	54LS256DM	FSC	LATCHES	178- 66	206	54LS290	54LS290F		VALG	COUNTER	142- 26
97	54LS256	54LS256FM	FSC	LATCHES	178- 67	207	54LS290	54LS290W		MULB	COUNTER	142- 27
98	54LS256	54LS256F	MULB	LATCHES	179- 9	208	54LS290	54LS290W		PHIN	COUNTER	142- 27
99	54LS256	54LS256F	PHIN	LATCHES	179- 9	209	54LS290	54LS290W		RTCF	COUNTER	142- 27
100	54LS256	54LS256F	SIC	LATCHES	179- 9	210	54LS290	54LS290W		SIC	COUNTER	142- 27
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2	54LS293	S54LS293F	PHIN	COUNTER	145- 59	112	54LS390	S54LS390W	MULB	COUNTER	141- 4
3	54LS293	S54LS293F	RTCF	COUNTER	145- 59	113	54LS390	S54LS390W	PHIN	COUNTER	141- 4
4	54LS293	S54LS293F	SIC	COUNTER	145- 59	114	54LS390	S54LS390W	RTCF	COUNTER	141- 4
5	54LS293	S54LS293F	VALG	COUNTER	145- 59	115	54LS390	S54LS390W	VALG	COUNTER	141- 4
6	54LS293	S54LS293W	MULB	COUNTER	145- 60	116	54LS390	SN54LS390J	MOTA	COUNTER	141- 9
7	54LS293	S54LS293W	PHIN	COUNTER	145- 60	117	54LS390	SN54LS390J	TII	COUNTER	141- 9
8	54LS293	S54LS293W	RTCF	COUNTER	145- 60	118	54LS390	SN54LS390W	TII	COUNTER	141- 10
9	54LS293	S54LS293W	SIC	COUNTER	145- 60	119	54LS393	DM54LS393J#mil	NSC	COUNTER	148- 47
10	54LS293	S54LS293W	VALG	COUNTER	145- 60	120	54LS393	DM54LS393W#mil	NSC	COUNTER	148- 48
11	54LS293	SN54LS293J	MOTA	COUNTER	150- 26	121	54LS393	54LS393DM	FSC	COUNTER	145- 63
12	54LS293	SN54LS293J	TII	COUNTER	150- 26	122	54LS393	54LS393FM	FSC	COUNTER	145- 64
13	54LS293	SN54LS293W	TII	COUNTER	150- 27	123	54LS393	S54LS393F	MULB	COUNTER	147- 2
14	54LS294	SN54LS294J#mil	TII	FREQ DIVID	157-105	124	54LS393	S54LS393F	PHIN	COUNTER	147- 2
15	54LS294	SN54LS294W#mil	TII	FREQ DIVID	157-106	125	54LS393	S54LS393F	RTCF	COUNTER	147- 2
16	54LS320	SN54LS320J	TII	CLOCK/MV	155- 8	126	54LS393	S54LS393F	SIC	COUNTER	147- 2
17	54LS320	SN54LS320W	TII	CLOCK/MV	155- 9	127	54LS393	S54LS393F	VALG	COUNTER	147- 2
18	54LS321	SN54LS321J	TII	CLOCK/MV	155- 10	128	54LS393	S54LS393W	MULB	COUNTER	147- 3
19	54LS321	SN54LS321W	TII	CLOCK/MV	155- 11	129	54LS393	S54LS393W	PHIN	COUNTER	147- 3
20	54LS324	SN54LS324J	TII	CLOCK/MV	155- 24	130	54LS393	S54LS393W	RTCF	COUNTER	147- 3
21	54LS324	SN54LS324W	TII	CLOCK/MV	155- 25	131	54LS393	S54LS393W	SIC	COUNTER	147- 3
22	54LS325	SN54LS325J	TII	CLOCK/MV	155- 18	132	54LS393	S54LS393W	VALG	COUNTER	147- 3
23	54LS325	SN54LS325W	TII	CLOCK/MV	155- 19	133	54LS393	SN54LS393J	MOTA	COUNTER	146- 15
24	54LS326	SN54LS326J	TII	CLOCK/MV	155- 20	134	54LS393	SN54LS393J	TII	COUNTER	146- 15
25	54LS326	SN54LS326W	TII	CLOCK/MV	155- 21	135	54LS393	SN54LS393W	TII	COUNTER	146- 16
26	54LS327	SN54LS327J	TII	CLOCK/MV	155- 22	136	54LS422	SN54LS422J	TII	CLOCK/MV	155- 69
27	54LS327	SN54LS327W	TII	CLOCK/MV	155- 23	137	54LS422	SN54LS422W	TII	CLOCK/MV	155- 70
28	54LS363	S54LS363F	MULB	LATCHES	180- 61	138	54LS423	SN54LS423J	TII	CLOCK/MV	155- 71
29	54LS363	S54LS363F	PHIN	LATCHES	180- 61	139	54LS423	SN54LS423W	TII	CLOCK/MV	155- 72
30	54LS363	S54LS363F	RTCF	LATCHES	180- 61	140	54LS461	SN54LS461JS	TII	COUNTER	144- 28
31	54LS363	S54LS363F	SIC	LATCHES	180- 61	141	54LS490	54LS490DM	MMI	COUNTER	142- 75
32	54LS363	S54LS363F	VALG	LATCHES	180- 61	142	54LS490	54LS490FM	FSC	COUNTER	142- 76
33	54LS364	S54LS364F	MULB	FLIP FLOP	53- 44	143	54LS490	S54LS490F	MULB	COUNTER	141- 59
34	54LS364	S54LS364F	RTCF	FLIP FLOP	53- 44	144	54LS490	S54LS490F	PHIN	COUNTER	141- 59
35	54LS364	S54LS364F	SIC	FLIP FLOP	53- 44	145	54LS490	S54LS490F	RTCF	COUNTER	141- 59
36	54LS364	S54LS364F	VALG	FLIP FLOP	53- 44	146	54LS490	S54LS490F	SIC	COUNTER	141- 59
37	54LS373	DM54LS373J#mil	NSC	LATCHES	179- 97	147	54LS490	S54LS490F	VALG	COUNTER	141- 59
38	54LS373	DM54LS373W#mil	NSC	LATCHES	179- 98	148	54LS490	S54LS490W	MULB	COUNTER	141- 60
39	54LS373	54LS373DM	FSC	LATCHES	178- 11	149	54LS490	S54LS490W	PHIN	COUNTER	141- 60
40	54LS373	54LS373FM	FSC	LATCHES	178- 12	150	54LS490	S54LS490W	RTCF	COUNTER	141- 60
41	54LS373	Am54LS373X#ai	AMD	LATCHES	181- 15	151	54LS490	S54LS490W	SIC	COUNTER	141- 60
42	54LS373	S54LS373F	MULB	LATCHES	181- 8	152	54LS490	S54LS490W	VALG	COUNTER	141- 60
43	54LS373	S54LS373F	PHIN	LATCHES	181- 8	153	54LS490	SN54LS490J	MOTA	COUNTER	141- 11
44	54LS373	S54LS373F	RTCF	LATCHES	181- 8	154	54LS490	SN54LS490J	TII	COUNTER	141- 11
45	54LS373	S54LS373F	SIC	LATCHES	181- 8	155	54LS490	SN54LS490W	TII	COUNTER	141- 12
46	54LS373	S54LS373F	VALG	LATCHES	181- 8	156	54LS491	SN54LS491JS	MMI	COUNTER	144- 31
47	54LS373	AM54LS373J	AMD	LATCHES	180- 84	157	54LS533	54LS533DM	FSC	LATCHES	178- 18
48	54LS373	AM54LS373W	AMD	LATCHES	180- 85	158	54LS533	54LS533FM	FSC	LATCHES	178- 19
49	54LS373	SN54LS373J	MMI	LATCHES	180- 93	159	54LS533	Am54LS533X#ai	AMD	LATCHES	181- 16
50	54LS373	SN54LS373J	MOTA	LATCHES	180- 93	160	54LS533	AM54LS533J	AMD	LATCHES	180- 86
51	54LS373	SN54LS373J	TII	LATCHES	180- 93	161	54LS533	AM54LS533W	AMD	LATCHES	180- 87
52	54LS374	DM54LS374J#mil	NSC	LATCHES	180- 38	162	54LS533	SN54LS533J	MMI	LATCHES	180- 19
53	54LS374	DM54LS374W#mil	NSC	LATCHES	180- 39	163	54LS534	54LS534DM	FSC	FLIP FLOP	51- 19
54	54LS374	54LS374DM	FSC	FLIP FLOP	51- 17	164	54LS534	54LS534FM	FSC	FLIP FLOP	51- 20
55	54LS374	54LS374FM	FSC	FLIP FLOP	51- 18	165	54LS534	SN54LS534J	MMI	FLIP FLOP	50- 21
56	54LS374	S54LS374F	MULB	FLIP FLOP	53- 45	166	54LS563	54LS563DC	FSC	LATCHES	178- 13
57	54LS374	S54LS374F	SIC	FLIP FLOP	53- 45	167	54LS563	54LS563DM	FSC	LATCHES	178- 14
58	54LS374	SN54LS374J	MMI	LATCHES	180- 44	168	54LS563	54LS563FM	FSC	LATCHES	178- 15
59	54LS374	SN54LS374J#	TII	FLIP FLOP	51- 2	169	54LS563	54LS563PC	FSC	LATCHES	178- 16
60	54LS375	54LS375DM	FSC	LATCHES	177- 38	170	54LS564	54LS564DM	FSC	FLIP FLOP	51- 21
61	54LS375	54LS375FM	FSC	LATCHES	177- 39	171	54LS564	54LS564FM	FSC	FLIP FLOP	51- 22
62	54LS375	S54LS375F	MULB	LATCHES	177- 56	172	54LS568	S54LS568AF	SIC	COUNTER	142- 70
63	54LS375	S54LS375F	PHIN	LATCHES	177- 56	173	54LS568	S54LS568F	MULB	COUNTER	144- 6
64	54LS375	S54LS375F	RTCF	LATCHES	177- 56	174	54LS568	S54LS568F	PHIN	COUNTER	144- 6
65	54LS375	S54LS375F	SIC	LATCHES	177- 56	175	54LS568	S54LS568F	SIC	COUNTER	144- 6
66	54LS375	S54LS375F	VALG	LATCHES	177- 56	176	54LS568	S54LS568F	VALG	COUNTER	144- 6
67	54LS375	S54LS375W	MULB	LATCHES	177- 57	177	54LS568	SN54LS568J	MOTA	COUNTER	141- 72
68	54LS375	S54LS375W	PHIN	LATCHES	177- 57	178	54LS568	S54LS568AF	SIC	COUNTER	148- 70
69	54LS375	S54LS375W	RTCF	LATCHES	177- 57	179	54LS569	S54LS569F	MULB	COUNTER	150- 79
70	54LS375	S54LS375W	SIC	LATCHES	177- 57	180	54LS569	S54LS569F	PHIN	COUNTER	150- 79
71	54LS375	S54LS375W	VALG	LATCHES	177- 57	181	54LS569	S54LS569F	SIC	COUNTER	150- 79
72	54LS375	SN54LS375J	MOTA	LATCHES	177- 61	182	54LS569	S54LS569F	VALG	COUNTER	150- 79
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75	54LS377	54LS377DM	FSC	FLIP FLOP	50- 10	185	54LS573	54LS573FM	FSC	LATCHES	178- 21
76	54LS377	54LS377FM	FSC	FLIP FLOP	50- 11	186	54LS574	54LS574DM	FSC	FLIP FLOP	51- 23
77	54LS377	S54LS377F	MULB	FLIP FLOP	53- 46	187	54LS574	54LS574FM	FSC	FLIP FLOP	51- 24
78	54LS377	S54LS377F	RTCF	FLIP FLOP	53- 46	188	54LS590	SN54LS590J#mil	TII	COUNTER	146- 17
79	54LS377	S54LS377F	SIC	FLIP FLOP	53- 46	189	54LS590	SN54LS590W#mil	TII	COUNTER	146- 18
80	54LS377	S54LS377F	VALG	FLIP FLOP	53- 46	190	54LS591	SN54LS591J#mil	TII	COUNTER	146- 18
81	54LS378	54LS378DM	FSC	FLIP FLOP	50- 12	191	54LS591	SN54LS591W#mil	TII	COUNTER	146- 20
82	54LS378	54LS378FM	FSC	FLIP FLOP	50- 13	192	54LS592	SN54LS592J#mil	TII	COUNTER	146- 21
83	54LS378	S54LS378F	SIC	FLIP FLOP	53- 47	193	54LS592	SN54LS592W#mil	TII	COUNTER	146- 22
84	54LS378	S54LS378W	SIC	FLIP FLOP	53- 48	194	54LS593	SN54LS593J#mil	TII	COUNTER	146- 23
85	54LS381	SN54LS381J	AMD	ALU	168- 64	195	54LS604	SN54LS604J	TII	LATCHES	180- 10
86	54LS381	SN54LS381J	TII	ALU	168- 64	196	54LS605	SN54LS605J	TII	LATCHES	179- 38
87	54LS381	SN54LS381W	AMD	ALU	168- 65	197	54LS606	SN54LS606J	TII	LATCHES	180- 11
88	54LS382	SN54LS382J	TII	ALU	168- 70	198	54LS607	SN54LS607J	TII	LATCHES	179- 39
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90	54LS384	54LS384FM	FSC	MULTIPLIER	163- 84	200	54LS624	SN54LS624W	TII	CLOCK/MV	155- 27
91	54LS384	SN54LS384J	TII	MULTIPLIER	163- 79	201	54LS625	SN54LS625J	TII	CLOCK/MV	155- 28
92	54LS384	SN54LS384W	TII	MULTIPLIER	163- 80	202	54LS625	SN54LS625W	TII	CLOCK/MV	155- 29
93	54LS385	SN54LS385J	MOTA	ADDER	162- 45	203	54LS626	SN54LS626J	TII	CLOCK/MV	155- 30
94	54LS385	SN54LS385J	TII	ADDER	162- 45	204	54LS626	SN54LS626W	TII	CLOCK/MV	155- 31
95	54LS386	54LS386DM	FSC	GATE	111- 15	205	54LS627	SN54LS627J	TII	CLOCK/MV	155- 32
96	54LS386	54LS386FM	FSC	GATE	111- 16	206	54LS627	SN54LS627W	TII	CLOCK/MV	155- 33
97	54LS386	S54LS386F	MULB	GATE	111- 50	207	54LS628	SN54LS628J	TII	CLOCK/MV	155- 34
98	54LS386	S54LS386F	PHIN	GATE	111- 50	208	54LS628	SN54LS628W	TII	CLOCK/MV	155- 35
99	54LS386	S54LS386W	MULB	GATE	111- 51	209	54LS629	SN54LS629J	TII	CLOCK/MV	155- 36
100	54LS386	S54LS386W	PHIN	GATE	111- 51	210	54LS629	SN54LS629W	TII	CLOCK/MV	155- 37
101	54LS386	SN54LS386J	MOTA	GATE	111- 59	211	54LS630	SN54LS630J	TII	SPECIAL	182- 46
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4	54LS685	SN54LS685J #mil	TII	MAGN COMP	165- 15	114	54S20	SN54S20W	TII	GATE	106- 99
5	54LS686	SN54LS686JT #mil	TII	MAGN COMP	166-105	115	54S22	54S22DM	FSC	GATE	98- 45
6	54LS687	SN54LS687JT #mil	TII	MAGN COMP	166-108	116	54S22	54S22FM	FSC	GATE	94- 25
7	54LS688	SN54LS688J #mil	TII	MAGN COMP	165- 1	117	54S22	S54S22F	MULB	GATE	105- 67
8	54LS689	SN54LS689J #mil	TII	MAGN COMP	165- 11	118	54S22	S54S22F	PHIN	GATE	105- 67
9	54LS690	SN54LS690J	TII	COUNTER	143- 78	119	54S22	S54S22F	VALG	GATE	105- 67
10	54LS691	SN54LS691J	TII	COUNTER	150- 37	120	54S22	S54S22W	MULB	GATE	105- 68
11	54LS692	SN54LS692J	TII	COUNTER	143- 79	121	54S22	S54S22W	PHIN	GATE	105- 68
12	54LS693	SN54LS693J	TII	COUNTER	150- 38	122	54S22	S54S22W	VALG	GATE	105- 68
13	54LS696	SN54LS696J	TII	COUNTER	143- 80	123	54S22	SN54S22J	TII	GATE	106-100
14	54LS697	SN54LS697J	TII	COUNTER	150- 39	124	54S22	SN54S22W	TII	GATE	106-101
15	54LS698	SN54LS698J	TII	COUNTER	143- 81	125	54S30	54S30DM	FSC	GATE	98- 46
16	54LS699	SN54LS699J	TII	COUNTER	150- 40	126	54S30	54S30FM	FSC	GATE	98- 47
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20	54S00	S54S00F	PHIN	GATE	105- 59	130	54S32	54S32FM	FSC	GATE	87- 76
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22	54S00	S54S00F	VALG	GATE	105- 59	132	54S32	S54S32F	PHIN	GATE	88- 21
23	54S00	S54S00W	MULB	GATE	105- 60	133	54S32	S54S32F	VALG	GATE	88- 21
24	54S00	S54S00W	PHIN	GATE	105- 60	134	54S32	S54S32W	MULB	GATE	88- 22
25	54S00	S54S00W	SIC	GATE	105- 60	135	54S32	S54S32W	PHIN	GATE	88- 22
26	54S00	S54S00W	VALG	GATE	105- 60	136	54S32	S54S32W	VALG	GATE	88- 22
27	54S00	SN54S00J	TII	GATE	106- 92	137	54S32	SN54S32J	TII	GATE	88- 29
28	54S00	SN54S00W	TII	GATE	106- 93	138	54S32	SN54S32W	TII	GATE	88- 30
29	54S02	S54S02F	MULB	GATE	92- 40	139	54S37	SN54S37J	TII	GATE	106-104
30	54S02	S54S02F	PHIN	GATE	92- 40	140	54S37	SN54S37W	TII	GATE	106-105
31	54S02	S54S02F	SIC	GATE	92- 40	141	54S38	SN54S38J	TII	GATE	106-106
32	54S02	S54S02F	VALG	GATE	92- 40	142	54S38	SN54S38W	TII	GATE	106-107
33	54S02	S54S02W	MULB	GATE	92- 41	143	54S40	SN54S40J	TII	GATE	107- 1
34	54S02	S54S02W	PHIN	GATE	92- 41	144	54S40	SN54S40W	TII	GATE	107- 2
35	54S02	S54S02W	SIC	GATE	92- 41	145	54S51	54S51DM	FSC	GATE	82- 71
36	54S02	S54S02W	VALG	GATE	92- 41	146	54S51	54S51FM	FSC	GATE	82- 72
37	54S02	SN54S02J	TII	GATE	92- 66	147	54S51	S54S51F	MULB	GATE	82- 49
38	54S02	SN54S02W	TII	GATE	92- 67	148	54S51	S54S51F	PHIN	GATE	82- 49
39	54S03	54S03DM	FSC	GATE	98- 40	149	54S51	S54S51F	SIC	GATE	82- 49
40	54S03	S54S03F	MULB	GATE	105- 61	150	54S51	S54S51F	VALG	GATE	82- 49
41	54S03	S54S03F	PHIN	GATE	105- 61	151	54S51	S54S51W	MULB	GATE	82- 50
42	54S03	S54S03W	MULB	GATE	105- 62	152	54S51	S54S51W	PHIN	GATE	82- 50
43	54S03	S54S03W	PHIN	GATE	105- 62	153	54S51	S54S51W	SIC	GATE	82- 50
44	54S03	S54S03W	SIC	GATE	105- 62	154	54S51	S54S51W	VALG	GATE	82- 50
45	54S03	SN54S03J	TII	GATE	106- 94	155	54S51	SN54S51J	TII	GATE	86- 77
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47	54S04	S54S04F	SIC	GATE	115- 61	157	54S64	54S64DM	FSC	GATE	83- 59
48	54S04	S54S04W	SIC	GATE	115- 62	158	54S64	54S64FM	FSC	GATE	83- 60
49	54S08	S54S08F	MULB	GATE	80- 21	159	54S64	S54S64F	MULB	GATE	86- 41
50	54S08	S54S08F	PHIN	GATE	80- 21	160	54S64	S54S64F	PHIN	GATE	86- 41
51	54S08	S54S08F	SIC	GATE	80- 21	161	54S64	S54S64F	VALG	GATE	86- 41
52	54S08	S54S08F	VALG	GATE	80- 21	162	54S64	S54S64W	MULB	GATE	86- 42
53	54S08	S54S08W	MULB	GATE	80- 22	163	54S64	S54S64W	PHIN	GATE	86- 42
54	54S08	S54S08W	PHIN	GATE	80- 22	164	54S64	S54S64W	VALG	GATE	86- 42
55	54S08	S54S08W	SIC	GATE	80- 22	165	54S64	SN54S64J	TII	GATE	86- 79
56	54S08	S54S08W	VALG	GATE	80- 22	166	54S64	SN54S64W	TII	GATE	86- 80
57	54S08	SN54S08J	TII	GATE	80- 76	167	54S65	54S65FM	FSC	GATE	82- 73
58	54S08	SN54S08W	TII	GATE	80- 77	168	54S65	S54S65F	MULB	GATE	86- 43
59	54S09	54S09FM	FSC	GATE	76- 1	169	54S65	S54S65F	PHIN	GATE	86- 43
60	54S09	S54S09F	MULB	GATE	80- 23	170	54S65	S54S65F	VALG	GATE	86- 43
61	54S09	S54S09F	PHIN	GATE	80- 23	171	54S65	S54S65W	MULB	GATE	86- 44
62	54S09	S54S09F	SIC	GATE	80- 23	172	54S65	S54S65W	PHIN	GATE	86- 44
63	54S09	S54S09F	VALG	GATE	80- 23	173	54S65	S54S65W	VALG	GATE	86- 44
64	54S09	S54S09W	MULB	GATE	80- 24	174	54S65	SN54S65J	TII	GATE	86- 81
65	54S09	S54S09W	PHIN	GATE	80- 24	175	54S65	SN54S65W	TII	GATE	86- 82
66	54S09	S54S09W	VALG	GATE	80- 24	176	54S74	54S74DM	FSC	FLIP FLOP	51- 25
67	54S09	SN54S09J	TII	GATE	80- 78	177	54S74	54S74FM	FSC	FLIP FLOP	51- 26
68	54S09	SN54S09W	TII	GATE	80- 79	178	54S74	S54S74F	MULB	FLIP FLOP	52- 59
69	54S10	54S10DM	FSC	GATE	98- 41	179	54S74	S54S74F	PHIN	FLIP FLOP	52- 59
70	54S10	54S10FM	FSC	GATE	98- 42	180	54S74	S54S74F	SIC	FLIP FLOP	52- 59
71	54S10	S54S10F	MULB	GATE	105- 63	181	54S74	S54S74F	VALG	FLIP FLOP	52- 59
72	54S10	S54S10F	PHIN	GATE	105- 63	182	54S74	S54S74W	MULB	FLIP FLOP	52- 60
73	54S10	S54S10F	SIC	GATE	105- 63	183	54S74	S54S74W	PHIN	FLIP FLOP	52- 60
74	54S10	S54S10F	VALG	GATE	105- 63	184	54S74	S54S74W	SIC	FLIP FLOP	52- 60
75	54S10	S54S10W	MULB	GATE	105- 64	185	54S74	S54S74W	VALG	FLIP FLOP	52- 60
76	54S10	S54S10W	PHIN	GATE	105- 64	186	54S74	SN54S74J	TII	FLIP FLOP	53- 5
77	54S10	S54S10W	SIC	GATE	105- 64	187	54S74	SN54S74W	TII	FLIP FLOP	53- 6
78	54S10	S54S10W	VALG	GATE	105- 64	188	54S85	S54S85F	MULB	MAGN COMP	166- 7
79	54S10	SN54S10J	TII	GATE	106- 96	189	54S85	S54S85F	PHIN	MAGN COMP	166- 7
80	54S10	SN54S10W	TII	GATE	106- 97	190	54S85	S54S85F	RTCF	MAGN COMP	166- 7
81	54S11	54S11DM	FSC	GATE	77- 54	191	54S85	S54S85F	SIC	MAGN COMP	166- 7
82	54S11	54S11FM	FSC	GATE	77- 55	192	54S85	S54S85F	VALG	MAGN COMP	166- 7
83	54S11	S54S11F	MULB	GATE	80- 25	193	54S85	S54S85W	MULB	MAGN COMP	166- 8
84	54S11	S54S11F	PHIN	GATE	80- 25	194	54S85	S54S85W	PHIN	MAGN COMP	166- 8
85	54S11	S54S11F	SIC	GATE	80- 25	195	54S85	S54S85W	RTCF	MAGN COMP	166- 8
86	54S11	S54S11F	VALG	GATE	80- 25	196	54S85	S54S85W	SIC	MAGN COMP	166- 8
87	54S11	S54S11W	MULB	GATE	80- 26	197	54S85	S54S85W	VALG	MAGN COMP	166- 8
88	54S11	S54S11W	PHIN	GATE	80- 26	198	54S85	SN54S85J	TII	MAGN COMP	166- 9
89	54S11	S54S11W	SIC	GATE	80- 26	199	54S85	SN54S85W	TII	MAGN COMP	166- 10
90	54S11	S54S11W	VALG	GATE	80- 26	200	54S86	54S86DM	TII	GATE	111- 63
91	54S11	SN54S11J	TII	GATE	80- 80	201	54S86	54S86FM	FSC	GATE	111- 64
92	54S11	SN54S11W	TII	GATE	80- 81	202	54S86	S54S86F	MULB	GATE	112- 55
93	54S15	54S15DM	FSC	GATE	76- 2	203	54S86	S54S86F	PHIN	GATE	112- 55
94	54S15	54S15FM	FSC	GATE	76- 3	204	54S86	S54S86F	SIC	GATE	112- 55
95	54S15	S54S15F	MULB	GATE	80- 27	205	54S86	S54S86F	VALG	GATE	112- 55
96	54S15	S54S15F	PHIN	GATE	80- 27	206	54S86	S54S86W	MULB	GATE	112- 56
97	54S15	S54S15F	VALG	GATE	80- 27	207	54S86	S54S86W	PHIN	GATE	112- 56
98	54S15	S54S15W	MULB	GATE	80- 28	208	54S86	S54S86W	SIC	GATE	112- 56
99	54S15	S54S15W	PHIN	GATE	80- 28	209	54S86	S54S86W	VALG	GATE	112- 56
100	54S15	S54S15W	VALG	GATE	80- 28	210	54S86	SN54S86J	TII	GATE	112- 68
101	54S15	SN54S15J	TII	GATE	80- 82	211	54S86	SN54S86W	TII	GATE	112- 69
102	54S15	SN54S15W	TII	GATE	80- 83	212	54S109	54S109DM	FSC	FLIP FLOP	42- 61
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106	54S20	S54S20F	PHIN	GATE	105- 65	216	54S112	S54S112F	MULB	FLIP FLOP	46- 13
107	54S20	S54S20F	SIC	GATE	105- 65	217	54S112	S54S112F	PHIN	FLIP FLOP	46- 13
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2		54S112		S54S112W	SIC	FLIP FLOP	46- 14	112		54S181		54S181FM	FSC	ALU	168- 98
3		54S112		S54S112W	VALG	FLIP FLOP	46- 14	113		54S181		54S181F	MULB	ALU	169- 12
4		54S112		SN54S112J	TII	FLIP FLOP	46- 59	114		54S181		54S181F	PHIN	ALU	169- 12
5		54S112		SN54S112W	TII	FLIP FLOP	46- 60	115		54S181		54S181F	SIC	ALU	169- 12
6		54S113		54S113FM	FSC	FLIP FLOP	42- 65	116		54S181		54S181F	VALG	ALU	169- 12
7		54S113		S54S113F	MULB	FLIP FLOP	46- 15	117		54S181		54S181N	MULB	ALU	168-106
8		54S113		S54S113F	PHIN	FLIP FLOP	46- 15	118		54S181		54S181N	PHIN	ALU	168-106
9		54S113		S54S113F	SIC	FLIP FLOP	46- 15	119		54S181		54S181N	SIC	ALU	168-106
10		54S113		S54S113F	VALG	FLIP FLOP	46- 15	120		54S181		54S181W	MULB	ALU	168-107
11		54S113		S54S113W	MULB	FLIP FLOP	46- 16	121		54S181		54S181W	PHIN	ALU	168-107
12		54S113		S54S113W	PHIN	FLIP FLOP	46- 16	122		54S181		SN54S181J	AMD	ALU	169- 13
13		54S113		S54S113W	SIC	FLIP FLOP	46- 16	123		54S181		SN54S181J	TII	ALU	169- 13
14		54S113		S54S113W	VALG	FLIP FLOP	46- 16	124		54S181		SN54S181W	AMD	ALU	169- 14
15		54S113		SN54S113J	TII	FLIP FLOP	46- 61	125		54S181		SN54S181W	TII	ALU	169- 14
16		54S113		SN54S113W	TII	FLIP FLOP	46- 62	126		54S182		DM54S182J#mil	NSC	CARRY GEN	170- 43
17		54S114		54S114FM	FSC	FLIP FLOP	42- 66	127		54S182		54S182DM	FSC	CARRY GEN	170- 58
18		54S114		S54S114F	MULB	FLIP FLOP	46- 17	128		54S182		54S182FM	FSC	CARRY GEN	170- 59
19		54S114		S54S114F	PHIN	FLIP FLOP	46- 17	129		54S182		54S182F	MULB	CARRY GEN	170- 64
20		54S114		S54S114F	VALG	FLIP FLOP	46- 17	130		54S182		54S182F	PHIN	CARRY GEN	170- 64
21		54S114		S54S114W	MULB	FLIP FLOP	46- 18	131		54S182		54S182F	SIC	CARRY GEN	170- 64
22		54S114		S54S114W	PHIN	FLIP FLOP	46- 18	132		54S182		54S182F	VALG	CARRY GEN	170- 64
23		54S114		S54S114W	VALG	FLIP FLOP	46- 18	133		54S182		54S182W	MULB	CARRY GEN	170- 65
24		54S114		SN54S114J	TII	FLIP FLOP	46- 63	134		54S182		54S182W	PHIN	CARRY GEN	170- 65
25		54S114		SN54S114W	TII	FLIP FLOP	46- 64	135		54S182		54S182W	SIC	CARRY GEN	170- 65
26		54S124		SN54S124J	TII	CLOCK/MV	155- 54	136		54S182		54S182W	VALG	CARRY GEN	170- 65
27		54S124		SN54S124W	TII	CLOCK/MV	155- 55	137		54S182		SN54S182F16	MMI	CARRY GEN	170- 53
28		54S133		54S133DM	FSC	GATE	98- 48	138		54S182		SN54S182J	MMI	CARRY GEN	170- 66
29		54S133		54S133FM	FSC	GATE	98- 49	139		54S182		SN54S182J	TII	CARRY GEN	170- 66
30		54S133		S54S133F	MULB	GATE	105- 69	140		54S182		SN54S182J16	MMI	CARRY GEN	170- 54
31		54S133		S54S133F	PHIN	GATE	105- 69	141		54S182		SN54S182W	TII	CARRY GEN	170- 67
32		54S133		S54S133F	SIC	GATE	105- 69	142		54S196		DM54S196J#mil	NSC	COUNTER	149- 54
33		54S133		S54S133F	VALG	GATE	105- 69	143		54S196		DM54S196W#mil	NSC	COUNTER	149- 55
34		54S133		S54S133W	MULB	GATE	105- 70	144		54S196		SN54S196J	TII	COUNTER	143- 25
35		54S133		S54S133W	PHIN	GATE	105- 70	145		54S196		SN54S196W	TII	COUNTER	143- 26
36		54S133		S54S133W	SIC	GATE	105- 70	146		54S197		DM54S197J#mil	NSC	COUNTER	149- 56
37		54S133		S54S133W	VALG	GATE	105- 70	147		54S197		DM54S197W#mil	NSC	COUNTER	129- 3
38		54S133		SN54S133J	TII	GATE	107- 3	148		54S197		SN54S197J	TII	COUNTER	149- 62
39		54S133		SN54S133W	TII	GATE	107- 4	149		54S197		SN54S197W	TII	COUNTER	149- 63
40		54S134		54S134FM	FSC	GATE	98- 50	150		54S240		SN54S240J	MMI	DECODER	117-102
41		54S134		S54S134F	MULB	GATE	105- 71	151		54S241		SN54S241J	MMI	DECODER	117-103
42		54S134		S54S134F	PHIN	GATE	105- 71	152		54S244		SN54S244J	MMI	DECODER	117-104
43		54S134		S54S134F	SIC	GATE	105- 71	153		54S260		54S260DM	FSC	GATE	90- 52
44		54S134		S54S134F	VALG	GATE	105- 71	154		54S260		54S260FM	FSC	GATE	90- 53
45		54S134		S54S134W	MULB	GATE	105- 72	155		54S260		54S260F	MULB	GATE	92- 42
46		54S134		S54S134W	PHIN	GATE	105- 72	156		54S260		54S260F	PHIN	GATE	92- 42
47		54S134		S54S134W	SIC	GATE	105- 72	157		54S260		54S260F	SIC	GATE	92- 42
48		54S134		S54S134W	VALG	GATE	105- 72	158		54S260		54S260F	VALG	GATE	92- 42
49		54S134		SN54S134J	TII	GATE	107- 5	159		54S260		54S260W	MULB	GATE	92- 43
50		54S134		SN54S134W	TII	GATE	107- 6	160		54S260		54S260W	PHIN	GATE	92- 43
51		54S135		54S135FM	FSC	GATE	89- 72	161		54S260		54S260W	SIC	GATE	92- 43
52		54S135		S54S135F	MULB	GATE	113- 42	162		54S260		54S260W	VALG	GATE	92- 43
53		54S135		S54S135F	PHIN	GATE	113- 42	163		54S260		SN54S260J	TII	GATE	92- 68
54		54S135		S54S135F	SIC	GATE	113- 42	164		54S260		SN54S260W	TII	GATE	92- 69
55		54S135		S54S135F	VALG	GATE	113- 42	165		54S275		SN54S275J	TII	SPECIAL	182- 85
56		54S135		S54S135W	MULB	GATE	113- 43	166		54S280		DM54S280J#mil	NSC	PARITY GEN	173- 17
57		54S135		S54S135W	PHIN	GATE	113- 43	167		54S280		DM54S280W#mil	NSC	PARITY GEN	173- 18
58		54S135		S54S135W	SIC	GATE	113- 43	168		54S280		54S280DM	FSC	PARITY GEN	172- 98
59		54S135		S54S135W	VALG	GATE	113- 43	169		54S280		54S280FM	FSC	PARITY GEN	173- 1
60		54S135		SN54S135J	TII	GATE	113- 44	170		54S280		54S280F	MULB	PARITY GEN	173- 4
61		54S135		SN54S135W	TII	GATE	113- 45	171		54S280		54S280F	PHIN	PARITY GEN	173- 4
62		54S138		S54S138F	MULB	DECODER	121- 85	172		54S280		54S280F	SIC	PARITY GEN	173- 4
63		54S138		S54S138W	MULB	DECODER	121- 86	173		54S280		54S280F	VALG	PARITY GEN	173- 4
64		54S138		SN54S138J	AMD	DECODER	121- 89	174		54S280		54S280W	MULB	PARITY GEN	173- 5
65		54S138		SN54S138J	TII	DECODER	121- 89	175		54S280		54S280W	PHIN	PARITY GEN	173- 5
66		54S138		SN54S138W	AMD	DECODER	121- 90	176		54S280		54S280W	SIC	PARITY GEN	173- 5
67		54S138		SN54S138W	TII	DECODER	121- 90	177		54S280		54S280W	VALG	PARITY GEN	173- 5
68		54S139		SN54S139J	AMD	DECODER	121- 47	178		54S280		SN54S280J	TII	PARITY GEN	173- 6
69		54S139		SN54S139J	TII	DECODER	121- 47	179		54S280		SN54S280W	TII	PARITY GEN	173- 7
70		54S139		SN54S139W	AMD	DECODER	121- 48	180		54S283		DM54S283J#mil	NSC	ADDER	161- 19
71		54S139		SN54S139W	TII	DECODER	121- 48	181		54S283		DM54S283W#mil	NSC	ADDER	161- 20
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73		54S140		S54S140A	PHIN	GATE	105- 73	183		54S373		DM54S373J#mil	NSC	LATCHES	179- 52
74		54S140		SN54S140J	TII	GATE	107- 7	184		54S373		DM54S373W#mil	NSC	LATCHES	179- 53
75		54S140		SN54S140W	TII	GATE	107- 8	185		54S373		S54S373F	MULB	LATCHES	179- 70
76		54S160		DM54S160J#mil	NSC	COUNTER	151- 83	186		54S373		S54S373F	SIC	LATCHES	179- 70
77		54S160		DM54S160W#mil	NSC	COUNTER	151- 84	187		54S373		SN54S373J	MMI	LATCHES	179- 87
78		54S160		SN54S160J	AMD	COUNTER	143- 23	188		54S373		SN54S373J	TII	LATCHES	179- 87
79		54S160		SN54S160W	AMD	COUNTER	143- 24	189		54S374		S54S374F	MULB	FLIP FLOP	54- 25
80		54S161		SN54S161J	AMD	COUNTER	149- 60	190		54S374		S54S374F	SIC	FLIP FLOP	54- 25
81		54S161		SN54S161W	AMD	COUNTER	149- 61	191		54S374		SN54S374J	MMI	LATCHES	180- 45
82		54S162		DM54S162J#mil	NSC	COUNTER	151- 85	192		54S374		SN54S374J#	TII	FLIP FLOP	51- 3
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85		54S162		SN54S162W	TII	COUNTER	142- 85	195		54S381		SN54S381J	MMI	ALU	168- 88
86		54S163		DM54S163J#mil	NSC	COUNTER	149- 47	196		54S381		SN54S381J20	MMI	ALU	168- 81
87		54S163		DM54S163W#mil	NSC	COUNTER	149- 48	197		54S508		SN54S508TD24	MMI	MULTIPLIER	164- 4
88		54S163		SN54S163J	TII	COUNTER	148- 88	198		54S516		SN54S516T24	MMI	MULTIPLIER	163-104
89		54S163		SN54S163W	TII	COUNTER	148- 89	199		54S533		SN54S533J	MMI	LATCHES	179-100
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6	57S307	57S307J	MMI	DECODER	117- 89	116	62	62Z14A150H	SPR	TIME DELAY	124- 6
7	57S373	57S373J	MMI	LATCHES	179- 81	117	62	62Z14A200F	SPR	TIME DELAY	124- 7
8	57S374	57S374J	MMI	LATCHES	180- 27	118	62	62Z14A200H	SPR	TIME DELAY	124- 8
9	57S376	57S376J	MMI	LATCHES	180- 28	119	62	62Z14A250F	SPR	TIME DELAY	124- 9
10	57S378	57S378J	MMI	LATCHES	180- 29	120	62	62Z14A250H	SPR	TIME DELAY	124- 10
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22	61	61Z14A030	SPR	TIME DELAY	124- 14	132	63	RG63DC	RTN	GATE	109- 83
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26	61	61Z14A050	SPR	TIME DELAY	124- 18	136	67LS306	67LS306J	MMI	DECODER	117- 93
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29	61	61Z14A150	SPR	TIME DELAY	124- 21	139	67LS380	67LS380J	MMI	LATCHES	179- 96
30	61	61Z14A200	SPR	TIME DELAY	124- 22	140	67S300	67S300J	MMI	DECODER	117- 95
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53	61	RG61CK	RTN	GATE	109- 76	163	74	MM74PC02N	NSC	TII	107- 9
54	61	RG61DC	RTN	GATE	109- 77	164	74	SN74ALS00J	TII	GATE	107- 10
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56	62	62Z03A002H	SPR	TIME DELAY	123- 56	166	74	SN74ALS00J#	MOTA	GATE	107- 10
57	62	62Z03A003H	SPR	TIME DELAY	123- 57	167	74	MM74PC04J	NSC	TII	107- 11
58	62	62Z03A004H	SPR	TIME DELAY	123- 58	168	74	SN74ALS00N	TII	GATE	107- 11
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63	62	62Z03A009H	SPR	TIME DELAY	123- 63	173	74	MM74PC04N	NSC	TII	107- 14
64	62	62Z03A010H	SPR	TIME DELAY	123- 64	174	74	SN74ALS01N	TII	GATE	107- 14
65	62	62Z07A005H	SPR	TIME DELAY	123- 65	175	74	MM74PC08J	NSC	TII	107- 15
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67	62	62Z07A020F	SPR	TIME DELAY	123- 67	177	74	MM74PC08J	NSC	TII	92- 71
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70	62	62Z07A025H	SPR	TIME DELAY	123- 70	180	74	SN74ALS02N	TII	GATE	92- 72
71	62	62Z07A030F	SPR	TIME DELAY	123- 71	181	74	MM74PC08N	NSC	TII	92- 73
72	62	62Z07A030H	SPR	TIME DELAY	123- 72	182	74	SN74ALS02N#	MOTA	GATE	92- 73
73	62	62Z07A040F	SPR	TIME DELAY	123- 73	183	74	MM74PC32J	NSC	TII	107- 15
74	62	62Z07A040H	SPR	TIME DELAY	123- 74	184	74	SN74ALS03J	TII	GATE	107- 15
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79	62	62Z07A075H	SPR	TIME DELAY	123- 79	189	74	MM74PC32N	NSC	TII	107- 18
80	62	62Z07A080H	SPR	TIME DELAY	123- 80	190	74	SN74ALS03N#	MOTA	GATE	107- 18
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96	62	62Z14A040H	SPR	TIME DELAY	123- 96	206	74	SN74ALS10N#	MOTA	GATE	107- 22
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2	74			SN74ALS21J#	MOTA	GATE	80-97	112	74			SN74AS876NT	TII	FLIP FLOP	54-34
3	74			SN74ALS21N	TII	GATE	80-98	113	74			SN74AS880	TII	LATCHES	178-33
4	74			SN74ALS21N#	MOTA	GATE	80-99	114	74			SN74AS880JT	TII	LATCHES	178-34
5	74			SN74ALS22J	TII	GATE	107-29	115	74			SN74AS880NT	TII	LATCHES	178-35
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7	74			SN74ALS22N	TII	GATE	107-31	117	74			SN74AS882J(A)	TII	CARRY GEN	170-102
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68	74			SN74ALS696N#ai	MOTA	COUNTER	149-89	178	74			MC74HC20N(A)	MOTA	GATE	62-2
69	74			SN74ALS697J#ai	MOTA	COUNTER	152-11	179	74			MC74HC27J(A)	MOTA	GATE	58-75
70	74			SN74ALS697N#ai	MOTA	COUNTER	149-90	180	74			MC74HC27N(A)	MOTA	GATE	58-76
71	74			SN74ALS698J#ai	MOTA	COUNTER	152-12	181	74			MC74HC42J(A)	MOTA	DECODER	117-28
72	74			SN74ALS698N#ai	MOTA	COUNTER	152-13	182	74			MC74HC42N(A)	MOTA	DECODER	117-29
73	74			SN74ALS699J#ai	MOTA	COUNTER	149-91	183	74			MC74HC51J(A)	MOTA	GATE	57-3
74	74			SN74ALS699N#ai	MOTA	COUNTER	149-92	184	74			MC74HC51N(A)	MOTA	GATE	57-4
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89	74			SN74ALS1020N	TII	GATE	107-45	199	74			MC74HC107J(A)	MOTA	FLIP FLOP	34-97
90	74			SN74AS800J	TII	GATE	87-43	200	74			MC74HC107N(A)	MOTA	FLIP FLOP	35-1
91	74			SN74AS800N	TII	GATE	87-44	201	74			MC74HC109J(A)	MOTA	FLIP FLOP	34-87
92	74			SN74AS802J	TII	GATE	87-46	202	74			MC74HC109N(A)	MOTA	FLIP FLOP	34-88
93	74			SN74AS802N	TII	GATE	87-47	203	74			MC74HC112J(A)	MOTA	FLIP FLOP	35-2
94	74			SN74AS804J	TII	GATE	107-46	204	74			MC74HC112N(A)	MOTA	FLIP FLOP	35-3
95	74			SN74AS804N	TII	GATE	107-47	205	74			MC74HC138J(A)	MOTA	DECODER	117-55
96	74			SN74AS808J	TII	GATE	80-100	206	74			MC74HC138N(A)	MOTA	DECODER	117-56
97	74			SN74AS808N	TII	GATE	80-101	207	74			MC74HC139N(A)	MOTA	DECODER	117-51
98	74			SN74AS83											

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1	74		MC74HC268N#ai		MOTA	GATE	66- 12	111	74		MM74PC02J		NSC	GATE	75- 17
2	74		MC74HC273J(A)		MOTA	FLIP FLOP	36- 60	112	74C00		MM74C00N		NSC	GATE	62- 16
3	74		MC74HC273N(A)		MOTA	FLIP FLOP	36- 61	113	74C02		MM74C02N		NSC	GATE	58- 83
4	74		MC74HC280J(A)		MOTA	PARITY GEN	172- 4	114	74C08		MM74C08N		NSC	GATE	55- 49
5	74		MC74HC280N(A)		MOTA	PARITY GEN	172- 5	115	74C10		HD9-74C10		HAS	GATE	63- 12
6	74		MC74HC373J#ai		MOTA	LATCHES	176- 29	116	74C10		MM74C10N		NSC	GATE	62- 17
7	74		MC74HC373N#ai		MOTA	LATCHES	176- 30	117	74C20		MM74C20N		NSC	GATE	62- 18
8	74		MC74HC374J(A)		MOTA	FLIP FLOP	36- 62	118	74C30		MM74C30N		NSC	GATE	62- 19
9	74		MC74HC374N(A)		MOTA	FLIP FLOP	36- 63	119	74C32		MM74C32N		NSC	GATE	57- 74
10	74		MC74HC390J(A)		MOTA	COUNTER	134- 88	120	74C42		MM74C42N		NSC	DECODER	117- 33
11	74		MC74HC390N(A)		MOTA	COUNTER	134- 89	121	74C48		MM74C48N		NSC	DECODER	117- 41
12	74		MC74HC393J(A)		MOTA	COUNTER	134- 90	122	74C73		MM74C73N		NSC	FLIP FLOP	35- 8
13	74		MC74HC393N(A)		MOTA	COUNTER	134- 91	123	74C74		MM74C74N		NSC	FLIP FLOP	36- 72
14	74		MC74HC533J#ai		MOTA	LATCHES	176- 31	124	74C76		MM74C76N		NSC	FLIP FLOP	35- 9
15	74		MC74HC533N#ai		MOTA	LATCHES	176- 32	125	74C83		MM74C83N		NSC	ADDER	159- 64
16	74		MC74HC534J(A)		MOTA	FLIP FLOP	36- 64	126	74C85		MM74C85N		NSC	MAGN COMP	165- 22
17	74		MC74HC534N(A)		MOTA	FLIP FLOP	36- 65	127	74C86		MM74C86N		NSC	GATE	64- 102
18	74		MC74HC4002J#ai		MOTA	GATE	61- 61	128	74C90		MM74C90N		NSC	COUNTER	135- 69
19	74		MC74HC4002N#ai		MOTA	GATE	61- 62	129	74C93		MM74C93N		NSC	COUNTER	131- 56
20	74		MC74HC4017J(A)		MOTA	COUNTER	130-104	130	74C107		MM74C107N		NSC	FLIP FLOP	35- 10
21	74		MC74HC4017N(A)		MOTA	COUNTER	130-105	131	74C160		MM74C160N		NSC	COUNTER	135- 82
22	74		MC74HC4020J(A)		MOTA	COUNTER	134- 92	132	74C161		MM74C161N		NSC	COUNTER	132- 1
23	74		MC74HC4020N(A)		MOTA	COUNTER	134- 93	133	74C162		MM74C162N		NSC	COUNTER	135- 83
24	74		MC74HC4024J(A)		MOTA	COUNTER	134- 94	134	74C163		MM74C163N		NSC	COUNTER	132- 2
25	74		MC74HC4024N(A)		MOTA	COUNTER	134- 95	135	74C173		MM74C173N		NSC	FLIP FLOP	37- 17
26	74		MC74HC4040J(A)		MOTA	COUNTER	134- 96	136	74C174		MM74C174N		NSC	FLIP FLOP	37- 18
27	74		MC74HC4040N(A)		MOTA	COUNTER	135- 1	137	74C175		MM74C175N		NSC	FLIP FLOP	37- 19
28	74		MC74HC4075J#ai		MOTA	GATE	61- 63	138	74C192		MM74C192N		NSC	COUNTER	135- 85
29	74		MC74HC4075N#ai		MOTA	GATE	58- 72	139	74C193		MM74C193N		NSC	COUNTER	132- 25
30	74		MC74HC4514J(A)		MOTA	DECODER	116- 83	140	74C221		MM74C221N		NSC	TIME DELAY	122- 36
31	74		MC74HC4514N(A)		MOTA	DECODER	116- 84	141	74C373		MM74C373N		NSC	LATCHES	175- 56
32	74		MC74HC4538J(A)		MOTA	CLOCK/MV	155- 90	142	74C915		MM74C915N		NSC	DECODER	117- 53
33	74		MC74HC4538N(A)		MOTA	CLOCK/MV	155- 91	143	74C922		MM74C922N		NSC	SPECIAL	184- 42
34	74		MC74HC04J		MOTA	GATE	66- 14	144	74C923		MM74C923N		NSC	SPECIAL	184- 43
35	74		MC74HC04N(A)		MOTA	GATE	66- 15	145	74F00		N74F00F		SIC	GATE	104- 71
36	74		74SC373C		STX	LATCHES	175- 77	146	74F00		N74F00F		VALG	GATE	104- 71
37	74		74SC373D		STX	LATCHES	175- 78	147	74F00		N74F00N		SIC	GATE	104- 72
38	74		74SC373P		STX	LATCHES	175- 79	148	74F00		74F00DC		SIC	GATE	98- 51
39	74		74SC374C		STX	FLIP FLOP	36- 36	149	74F00		74F00PC		FSC	GATE	98- 52
40	74		74SC374D		STX	FLIP FLOP	36- 37	150	74F00		MC74F00J(A)		MOTA	GATE	75- 84
41	74		74SC374P		STX	FLIP FLOP	36- 38	151	74F00		MC74F00N(A)		MOTA	GATE	75- 85
42	74		74SC533C		STX	LATCHES	175- 80	152	74F02		N74F02F		SIC	GATE	92- 18
43	74		74SC533D		STX	LATCHES	175- 81	153	74F02		N74F02N		SIC	GATE	92- 19
44	74		74SC533P		STX	LATCHES	175- 82	154	74F02		74F02DC		FSC	GATE	90- 54
45	74		74SC534C		STX	FLIP FLOP	36- 39	155	74F02		74F02PC		FSC	GATE	90- 55
46	74		74SC534D		STX	FLIP FLOP	36- 40	156	74F02		MC74F02J(A)		MOTA	GATE	75- 76
47	74		74SC534P		STX	FLIP FLOP	36- 41	157	74F02		MC74F02N(A)		MOTA	GATE	75- 77
48	74		74SC563C		STX	LATCHES	175- 83	158	74F04		N74F04F		SIC	GATE	115- 42
49	74		74SC563D		STX	LATCHES	175- 84	159	74F04		N74F04F		VALG	GATE	115- 42
50	74		74SC563P		STX	LATCHES	175- 85	160	74F04		N74F04N		SIC	GATE	115- 43
51	74		74SC564C		STX	FLIP FLOP	36- 42	161	74F04		N74F04N		VALG	GATE	115- 43
52	74		74SC564D		STX	FLIP FLOP	36- 43	162	74F04		74F04DC		FSC	GATE	115- 32
53	74		74SC564P		STX	FLIP FLOP	36- 44	163	74F04		74F04PC		FSC	GATE	115- 33
54	74		74SC573C		STX	LATCHES	175- 86	164	74F04		MC74F04J		MOTA	GATE	75- 92
55	74		74SC573D		STX	LATCHES	175- 87	165	74F04		MC74F04N		MOTA	GATE	75- 93
56	74		74SC573P		STX	LATCHES	175- 88	166	74F08		N74F08N		SIC	GATE	79- 51
57	74		74SC574C		STX	FLIP FLOP	36- 45	167	74F08		N74F08N		VALG	GATE	79- 51
58	74		74SC574D		STX	FLIP FLOP	36- 46	168	74F08		74F08DC		FSC	GATE	77- 56
59	74		74SC574P		STX	FLIP FLOP	36- 47	169	74F08		74F08PC		FSC	GATE	77- 57
60	74		G74SC373D		GTE	LATCHES	175- 89	170	74F08		MC74F08J(A)		MOTA	GATE	75- 66
61	74		G74SC373P		GTE	LATCHES	175- 90	171	74F08		MC74F08N(A)		MOTA	GATE	75- 67
62	74		G74SC374D		GTE	FLIP FLOP	36- 14	172	74F10		N74F10F		VALG	GATE	104- 73
63	74		G74SC374P		GTE	FLIP FLOP	36- 15	173	74F10		N74F10N		VALG	GATE	104- 74
64	74		M74ALS00AP		MITJ	GATE	99-109	174	74F10		74F10DC		FSC	GATE	98- 53
65	74		M74ALS01P		MITJ	GATE	99-110	175	74F10		74F10PC		FSC	GATE	98- 54
66	74		M74ALS02P		MITJ	GATE	91- 15	176	74F10		MC74F10J(A)		MOTA	GATE	75- 86
67	74		M74ALS03AP		MITJ	GATE	100- 1	177	74F10		MC74F10N(A)		MOTA	GATE	75- 87
68	74		M74ALS04P		MITJ	GATE	115- 38	178	74F11		N74F11F		VALG	GATE	79- 52
69	74		M74ALS05P		MITJ	GATE	115- 39	179	74F11		N74F11N		VALG	GATE	79- 53
70	74		M74ALS08P		MITJ	GATE	78- 25	180	74F11		74F11DC		FSC	GATE	77- 58
71	74		M74ALS09P		MITJ	GATE	78- 26	181	74F11		74F11PC		FSC	GATE	77- 59
72	74		M74ALS10P		MITJ	GATE	100- 2	182	74F11		MC74F11J(A)		MOTA	GATE	75- 68
73	74		M74ALS11P		MITJ	GATE	78- 27	183	74F11		MC74F11N(A)		MOTA	GATE	75- 69
74	74		M74ALS12P		MITJ	GATE	100- 3	184	74F20		N74F20F		SIC	GATE	104- 75
75	74		M74ALS15P		MITJ	GATE	78- 28	185	74F20		N74F20F		VALG	GATE	104- 75
76	74		M74ALS20AP		MITJ	GATE	100- 4	186	74F20		N74F20N		SIC	GATE	104- 76
77	74		M74ALS21P		MITJ	GATE	78- 29	187	74F20		N74F20N		VALG	GATE	104- 76
78	74		M74ALS22AP		MITJ	GATE	100- 5	188	74F20		74F20DC		FSC	GATE	98- 55
79	74		M74ALS27P		MITJ	GATE	91- 16	189	74F20		74F20PC		FSC	GATE	98- 56
80	74		M74ALS28P		MITJ	GATE	91- 17	190	74F20		MC74F20J(A)		MOTA	GATE	75- 88
81	74		M74ALS30P		MITJ	GATE	100- 6	191	74F20		MC74F20N(A)		MOTA	GATE	75- 89
82	74		M74ALS32P		MITJ	GATE	87- 92	192	74F32		N74F32N		SIC	GATE	88- 12
83	74		M74ALS33P		MITJ	GATE	91- 18	193	74F32		N74F32N		VALG	GATE	88- 12
84	74		M74ALS37P		MITJ	GATE	100- 7	194	74F32		74F32DC		FSC	GATE	87- 77
85	74		M74ALS38P		MITJ	GATE	100- 8	195	74F32		74F32PC		FSC	GATE	87- 78
86	74		M74ALS40P		MITJ	GATE	100- 9	196	74F32		MC74F32J(A)		MOTA	GATE	75- 72
87	74		M74ALS74P		MITJ	FLIP FLOP	54- 35	197	74F32		MC74F32N(A)		MOTA	GATE	75- 73
88	74		M74ALS112AP		MITJ	FLIP FLOP	47- 45	198	74F64		N74F64F		SIC	GATE	82- 63
89	74		M74ALS113AP		MITJ	FLIP FLOP	47- 46	199	74F64		N74F64F		VALG	GATE	82- 63
90	74		M74ALS114AP		MITJ	FLIP FLOP	47- 47	200	74F64		N74F64N		SIC	GATE	82- 64
91	74		M74ALS1000P		MITJ	GATE	100- 10	201	74F64		N74F64N		VALG	GATE	82- 64
92	74		M74ALS1002P		MITJ	GATE	91- 19	202	74F64		74F64DC		FSC	GATE	83- 61
93	74		M74ALS1003P		MITJ	GATE	100- 11	203	74F64		74F64PC		FSC	GATE	83- 62
94	74		M74ALS1008P		MITJ	GATE	78- 30	204	74F64		MC74F64J(A)		MOTA	GATE	87- 40
95	74		M74ALS1020P		MITJ	GATE	100- 12	205	74F64		MC74F64N(A)		MOTA	GATE	87- 41

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1	74F109	N74F109N	SIC	FLIP FLOP	47- 41	111	74H10	N74H10F	PHIN	GATE	104- 82
2	74F109	N74F109N	VALG	FLIP FLOP	47- 41	112	74H10	N74H10F	VALG	GATE	104- 82
3	74F109	74F109DC	FSC	FLIP FLOP	42- 67	113	74H10	N74H10N	MULB	GATE	104- 83
4	74F109	74F109PC	FSC	FLIP FLOP	42- 68	114	74H10	N74H10N	PHIN	GATE	104- 83
5	74F109	MC74F109J(A)	MOTA	FLIP FLOP	47- 38	115	74H10	N74H10N	VALG	GATE	104- 83
6	74F109	MC74F109N(A)	MOTA	FLIP FLOP	47- 39	116	74H10	74H10DC	FSC	GATE	98- 61
7	74F138	MC74F138J(A)	MOTA	DECODER	118- 7	117	74H10	74H10PC	FSC	GATE	98- 62
8	74F138	MC74F138N(A)	MOTA	DECODER	118- 8	118	74H11	DM74H11N	NSC	GATE	77- 84
9	74F138	MC74F138J(A)	MOTA	DECODER	118- 3	119	74H11	SN74H11J	TII	GATE	80-102
10	74F139	MC74F139N(A)	MOTA	DECODER	118- 4	120	74H11	SN74H11N	TII	GATE	80-103
11	74F160	74F160DC	FSC	COUNTER	143- 35	121	74H11	N74H11F	MULB	GATE	79- 56
12	74F160	74F160PC	FSC	COUNTER	143- 36	122	74H11	N74H11F	PHIN	GATE	79- 56
13	74F161	74F161DC	FSC	COUNTER	148- 80	123	74H11	N74H11F	VALG	GATE	78- 57
14	74F161	74F161PC	FSC	COUNTER	148- 81	124	74H11	N74H11N	PHIN	GATE	78- 57
15	74F162	74F162DC	FSC	COUNTER	143- 37	125	74H11	N74H11N	VALG	GATE	78- 57
16	74F162	74F162PC	FSC	COUNTER	143- 38	126	74H11	N74H11N	PHIN	GATE	78- 57
17	74F163	74F163DC	FSC	COUNTER	149- 82	127	74H11	74H11DC	FSC	GATE	77- 81
18	74F163	74F163PC	FSC	COUNTER	149- 83	128	74H11	74H11PC	FSC	GATE	77- 81
19	74F175	74F175DC	FSC	FLIP FLOP	51- 31	129	74H15	SN74H15J	TII	GATE	80-104
20	74F175	74F175PC	FSC	FLIP FLOP	51- 32	130	74H15	SN74H15N	TII	GATE	80-105
21	74F175	MC74F175J(A)	MOTA	FLIP FLOP	53- 77	131	74H20	DM74H20N	NSC	GATE	99- 26
22	74F175	MC74F175N(A)	MOTA	FLIP FLOP	53- 78	132	74H20	SN74H20J	TII	GATE	107- 54
23	74F181	74F181DC	FSC	ALLU	168- 90	133	74H20	SN74H20N	TII	GATE	107- 55
24	74F181	74F181PC	FSC	ALLU	168- 91	134	74H20	N74H20F	MULB	GATE	104- 84
25	74F181	MC74F181J(A)	MOTA	ALLU	168- 92	135	74H20	N74H20F	PHIN	GATE	104- 84
26	74F181	MC74F181N(A)	MOTA	ALLU	168- 93	136	74H20	N74H20F	VALG	GATE	104- 84
27	74F182	74F182DC	FSC	CARRY GEN	170- 47	137	74H20	N74H20N	MULB	GATE	104- 85
28	74F182	74F182PC	FSC	CARRY GEN	170- 48	138	74H20	N74H20N	PHIN	GATE	104- 85
29	74F182	MC74F182J(A)	MOTA	CARRY GEN	170- 49	139	74H20	N74H20N	VALG	GATE	104- 85
30	74F182	MC74F182N(A)	MOTA	CARRY GEN	170- 50	140	74H20	74H20DC	FSC	GATE	98- 63
31	74F190	MC74F190J(A)	MOTA	COUNTER	143- 12	141	74H20	74H20PC	FSC	GATE	98- 64
32	74F190	MC74F190N(A)	MOTA	COUNTER	143- 13	142	74H21	DM74H21N	NSC	GATE	77- 85
33	74F191	MC74F191J(A)	MOTA	COUNTER	149- 52	143	74H21	SN74H21J	TII	GATE	80-106
34	74F191	MC74F191N(A)	MOTA	COUNTER	149- 53	144	74H21	SN74H21N	TII	GATE	80-107
35	74F280	N74F280AN	SIC	PARITY GEN	172- 95	145	74H21	N74H21F	MULB	GATE	79- 58
36	74F280	74F280DC	FSC	PARITY GEN	173- 12	146	74H21	N74H21F	PHIN	GATE	79- 58
37	74F280	74F280PC	FSC	PARITY GEN	173- 13	147	74H21	N74H21F	VALG	GATE	79- 58
38	74F283	74F283DC	FSC	ADDER	161- 17	148	74H21	N74H21N	MULB	GATE	79- 59
39	74F283	74F283PC	FSC	ADDER	161- 18	149	74H21	N74H21N	PHIN	GATE	79- 59
40	74F283	MC74F283J(A)	MOTA	ADDER	160- 36	150	74H21	N74H21N	VALG	GATE	79- 59
41	74F283	MC74F283N(A)	MOTA	ADDER	160- 37	151	74H21	74H21DC	FSC	GATE	77- 82
42	74F373	N74F373F	SIC	LATCHES	179- 71	152	74H21	74H21PC	FSC	GATE	77- 83
43	74F373	N74F373F	VALG	LATCHES	179- 71	153	74H22	DM74H22N	NSC	GATE	99- 27
44	74F373	N74F373N	SIC	LATCHES	179- 72	154	74H22	SN74H22J	TII	GATE	107- 56
45	74F373	N74F373N	VALG	LATCHES	179- 72	155	74H22	SN74H22N	TII	GATE	107- 57
46	74F373	74F373DC	FSC	LATCHES	179- 46	156	74H22	N74H22F	MULB	GATE	104- 86
47	74F373	74F373PC	FSC	LATCHES	179- 47	157	74H22	N74H22F	PHIN	GATE	104- 86
48	74F374	N74F374F	SIC	FLIP FLOP	53- 87	158	74H22	N74H22F	VALG	GATE	104- 86
49	74F374	N74F374F	VALG	FLIP FLOP	53- 87	159	74H22	N74H22N	MULB	GATE	104- 87
50	74F374	N74F374N	SIC	FLIP FLOP	53- 88	160	74H22	N74H22N	PHIN	GATE	104- 87
51	74F374	N74F374N	VALG	FLIP FLOP	53- 88	161	74H22	N74H22N	VALG	GATE	104- 87
52	74F374	74F374DC	FSC	FLIP FLOP	51- 33	162	74H22	74H22DC	FSC	GATE	98- 65
53	74F374	74F374PC	FSC	FLIP FLOP	51- 34	163	74H22	74H22PC	FSC	GATE	98- 66
54	74F374	MC74F374J(A)	MOTA	FLIP FLOP	53- 79	164	74H30	DM74H30N	NSC	GATE	99- 28
55	74F374	MC74F374N(A)	MOTA	FLIP FLOP	53- 80	165	74H30	SN74H30J	TII	GATE	107- 58
56	74F521	N74F521F	SIC	MAGN COMP	165- 95	166	74H30	SN74H30N	TII	GATE	107- 59
57	74F521	N74F521F	VALG	MAGN COMP	165- 95	167	74H30	N74H30F	MULB	GATE	104- 88
58	74F521	N74F521N	SIC	MAGN COMP	165- 96	168	74H30	N74H30F	PHIN	GATE	104- 88
59	74F521	N74F521N	VALG	MAGN COMP	165- 96	169	74H30	N74H30F	VALG	GATE	104- 88
60	74F521	MC74F521J(A)	MOTA	MAGN COMP	165- 99	170	74H30	N74H30N	MULB	GATE	104- 89
61	74F521	MC74F521N(A)	MOTA	MAGN COMP	165- 100	171	74H30	N74H30N	PHIN	GATE	104- 89
62	74F533	N74F533F	SIC	LATCHES	179- 48	172	74H30	N74H30N	VALG	GATE	104- 89
63	74F533	N74F533F	VALG	LATCHES	179- 48	173	74H30	N74H30W	MULB	GATE	104- 90
64	74F533	N74F533N	SIC	LATCHES	179- 49	174	74H30	N74H30W	PHIN	GATE	104- 90
65	74F533	N74F533N	VALG	LATCHES	179- 49	175	74H30	74H30DC	FSC	GATE	98- 67
66	74F533	74F533DC	FSC	LATCHES	179- 57	176	74H30	74H30PC	FSC	GATE	98- 68
67	74F533	74F533PC	FSC	LATCHES	179- 58	177	74H40	DM74H40N	NSC	GATE	99- 29
68	74F533	MC74F533J(A)	MOTA	LATCHES	179- 59	178	74H40	SN74H40J	TII	GATE	107- 60
69	74F533	MC74F533N(A)	MOTA	LATCHES	179- 60	179	74H40	SN74H40N	TII	GATE	107- 61
70	74F534	N74F534F	SIC	FLIP FLOP	53- 89	180	74H50	DM74H50N	NSC	GATE	83- 94
71	74F534	N74F534N	SIC	FLIP FLOP	53- 90	181	74H50	SN74H50J	TII	GATE	86- 83
72	74F534	N74F534N	VALG	FLIP FLOP	53- 90	182	74H50	SN74H50N	TII	GATE	86- 84
73	74F534	74F534DC	FSC	FLIP FLOP	51- 35	183	74H50	N74H50F	MULB	GATE	113- 95
74	74F534	74F534PC	FSC	FLIP FLOP	51- 36	184	74H50	N74H50F	PHIN	GATE	113- 95
75	74F2960	MC74F2960J(A)	MOTA	SPECIAL	182- 52	185	74H50	N74H50F	VALG	GATE	113- 95
76	74H00	DM74H00N	NSC	GATE	99- 22	186	74H50	N74H50N	NSC	GATE	113- 96
77	74H00	SN74H00J	TII	GATE	107- 48	187	74H50	N74H50N	PHIN	GATE	113- 96
78	74H00	SN74H00N	TII	GATE	107- 49	188	74H50	N74H50N	VALG	GATE	113- 96
79	74H00	N74H00A	PHIN	GATE	104- 77	189	74H50	74H50DC	FSC	GATE	83- 63
80	74H00	N74H00F	MULB	GATE	104- 78	190	74H50	74H50FC	FSC	GATE	83- 64
81	74H00	N74H00F	PHIN	GATE	104- 78	191	74H50	74H50PC	FSC	GATE	83- 65
82	74H00	N74H00F	VALG	GATE	104- 78	192	74H51	DM74H51N	NSC	GATE	83- 95
83	74H00	N74H00N	MULB	GATE	104- 79	193	74H51	SN74H51J	TII	GATE	86- 85
84	74H00	N74H00N	PHIN	GATE	104- 79	194	74H51	SN74H51N	TII	GATE	86- 86
85	74H00	N74H00N	VALG	GATE	104- 79	195	74H51	N74H51F	MULB	GATE	86- 19
86	74H00	74H00DC	FSC	GATE	98- 57	196	74H51	N74H51F	PHIN	GATE	86- 19
87	74H00	74H00PC	FSC	GATE	98- 58	197	74H51	N74H51F	VALG	GATE	86- 19
88	74H01	DM74H01J	NSC	GATE	99- 23	198	74H51	N74H51N	MULB	GATE	86- 20
89	74H01	DM74H01N	NSC	GATE	99- 24	199	74H51	N74H51N	PHIN	GATE	86- 20
90	74H01	SN74H01J	TII	GATE	107- 50	200	74H51	N74H51N	VALG	GATE	86- 20
91	74H01	SN74H01N	TII	GATE	107- 51	201	74H51	74H51DC	FSC	GATE	83- 66
92	74H01	N74H01F	MULB	GATE	104- 80	202	74H51	74H51PC	FSC	GATE	83- 67
93	74H01	N74H01F	PHIN	GATE	104- 80	203	74H52	SN74H52J	TII	GATE	82- 53
94	74H01	N74H01F	VALG	GATE	104- 80	204	74H52	SN74H52N	TII	GATE	82- 54
95	74H01	N74H01N	MULB	GATE	104- 81	205	74H52	N74H52F	MULB	GATE	113- 97
96	74H01	N74H01N	PHIN	GATE	104- 81	206	74H52	N74H52F	PHIN	GATE	113- 97
97	74H01	N74H01N	VALG	GATE	104- 81	207	74H52	N74H52F	VALG	GATE	113- 97
98	74H01	74H01DC	FSC	GATE	98- 59	208	74H52	N74H52N	MULB	GATE	113- 98
99	74H01	74H01PC	FSC	GATE	98- 60	209	74H52	N74H52N	PHIN	GATE	113- 98
100	74H08	DM74H08N	NSC	GATE	77- 83	210	74H52	N74H52N	VALG	GATE	113- 98
101	74H08	N74H08F	MULB	GATE	79- 54	211	74H52	74H52PC	FSC	GATE	82- 23
102	74H08	N74H08F	PHIN	GATE	79- 54	212	74H53	SN74H53J	TII	GATE	86- 87
103	74H08	N74H08F	VALG	GATE	79- 54	213	74H53	SN74H53N	TII	GATE	86- 88
104	74H08	N74H08N	MULB	GATE	79- 55	214	74H53	N74H53F	MULB	GATE	113- 99
105	74H08	N74H08N	PHIN	GATE	79- 55	215	74H53	74H53DC	FSC	GATE	83- 68
106	74H08	N74H08N	VALG	GATE	79- 55	216	74H53	N74H53F	PHIN	GATE	113- 99
107	74H10	DM74H10N	NSC	GATE</							

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1	74H53	N74H53N	VALG	GATE	113-100	111	74H102	SN74H102J	TII	FLIP FLOP	46- 77
2	74H54	SN74H54J	TII	GATE	86- 89	112	74H102	SN74H102N	TII	FLIP FLOP	46- 78
3	74H54	SN74H54N	TII	GATE	86- 90	113	74H102	N74H102F	MULB	FLIP FLOP	45- 50
4	74H54	74H54DC	FSC	GATE	83- 70	114	74H102	N74H102F	PHIN	FLIP FLOP	45- 50
5	74H54	74H54PC	FSC	GATE	83- 71	115	74H102	N74H102F	VALG	FLIP FLOP	45- 50
6	74H54	N74H54F	MULB	GATE	86- 21	116	74H102	N74H102N	MULB	FLIP FLOP	45- 51
7	74H54	N74H54F	PHIN	GATE	86- 21	117	74H102	N74H102N	PHIN	FLIP FLOP	45- 51
8	74H54	N74H54F	VALG	GATE	86- 21	118	74H102	N74H102N	VALG	FLIP FLOP	45- 51
9	74H54	N74H54N	MULB	GATE	86- 22	119	74H103	SN74H103J	TII	FLIP FLOP	46- 79
10	74H54	N74H54N	PHIN	GATE	86- 22	120	74H103	SN74H103N	TII	FLIP FLOP	46- 80
11	74H54	N74H54N	VALG	GATE	86- 22	121	74H103	74H103DC	FSC	FLIP FLOP	42- 74
12	74H55	SN74H55J	TII	GATE	86- 91	122	74H103	74H103PC	FSC	FLIP FLOP	42- 75
13	74H55	SN74H55N	TII	GATE	86- 92	123	74H103	N74H103F	MULB	FLIP FLOP	45- 52
14	74H55	74H55PC	FSC	GATE	83- 72	124	74H103	N74H103F	PHIN	FLIP FLOP	45- 52
15	74H55	N74H55F	MULB	GATE	86- 23	125	74H103	N74H103F	VALG	FLIP FLOP	45- 52
16	74H55	N74H55F	PHIN	GATE	86- 23	126	74H103	N74H103N	MULB	FLIP FLOP	45- 53
17	74H55	N74H55F	VALG	GATE	86- 23	127	74H103	N74H103N	PHIN	FLIP FLOP	45- 53
18	74H55	N74H55N	MULB	GATE	113-101	128	74H103	N74H103N	VALG	FLIP FLOP	45- 53
19	74H55	N74H55N	PHIN	GATE	113-101	129	74H106	SN74H106J	TII	FLIP FLOP	46- 81
20	74H55	N74H55N	VALG	GATE	113-101	130	74H106	SN74H106N	TII	FLIP FLOP	46- 82
21	74H60	SN74H60J	TII	GATE	114- 33	131	74H106	74H106DC	FSC	FLIP FLOP	42- 76
22	74H60	SN74H60N	TII	GATE	114- 34	132	74H106	74H106PC	FSC	FLIP FLOP	42- 77
23	74H60	N74H60F	MULB	GATE	113-102	133	74H106	N74H106F	MULB	FLIP FLOP	45- 54
24	74H60	N74H60F	PHIN	GATE	113-102	134	74H106	N74H106F	PHIN	FLIP FLOP	45- 54
25	74H60	N74H60F	VALG	GATE	113-102	135	74H106	N74H106F	VALG	FLIP FLOP	45- 54
26	74H60	N74H60N	MULB	GATE	113-103	136	74H106	N74H106N	MULB	FLIP FLOP	45- 55
27	74H60	N74H60N	PHIN	GATE	113-103	137	74H106	N74H106N	PHIN	FLIP FLOP	45- 55
28	74H60	N74H60N	VALG	GATE	113-103	138	74H106	N74H106N	VALG	FLIP FLOP	45- 55
29	74H61	SN74H61J	TII	GATE	114- 35	139	74H108	SN74H108J	TII	FLIP FLOP	46- 83
30	74H61	SN74H61N	TII	GATE	114- 36	140	74H108	SN74H108N	TII	FLIP FLOP	46- 84
31	74H61	74H61DC	FSC	GATE	113- 77	141	74H108	74H108DC	FSC	FLIP FLOP	42- 78
32	74H61	74H61PC	FSC	GATE	113- 78	142	74H108	74H108PC	FSC	FLIP FLOP	42- 79
33	74H61	N74H61F	MULB	GATE	113-104	143	74H108	N74H108F	MULB	FLIP FLOP	45- 56
34	74H61	N74H61F	PHIN	GATE	113-104	144	74H108	N74H108F	PHIN	FLIP FLOP	45- 56
35	74H61	N74H61F	VALG	GATE	113-104	145	74H108	N74H108F	VALG	FLIP FLOP	45- 56
36	74H61	N74H61N	MULB	GATE	113-105	146	74H108	N74H108N	MULB	FLIP FLOP	45- 57
37	74H61	N74H61N	PHIN	GATE	113-105	147	74H108	N74H108N	PHIN	FLIP FLOP	45- 57
38	74H61	N74H61N	VALG	GATE	113-105	148	74H108	N74H108N	VALG	FLIP FLOP	45- 57
39	74H62	DM74H62N	NSC	GATE	113- 86	149	74H183	SN74H183J	TII	ADDER	160- 45
40	74H62	SN74H62J	TII	GATE	114- 37	150	74H183	SN74H183N	TII	ADDER	160- 46
41	74H62	SN74H62N	TII	GATE	114- 38	151	74H183	74H183PC	FSC	ADDER	160- 77
42	74H62	74H62PC	FSC	GATE	113- 79	152	74L00	DM74L00N	NSC	GATE	94- 55
43	74H62	N74H62F	MULB	GATE	113-106	153	74L02	DM74L02N	NSC	GATE	89- 90
44	74H62	N74H62F	PHIN	GATE	113-106	154	74L03	DM74L03N	NSC	GATE	94- 56
45	74H62	N74H62F	VALG	GATE	113-106	155	74L10	DM74L10N	NSC	GATE	94- 57
46	74H62	N74H62N	MULB	GATE	113-107	156	74L20	DM74L20N	NSC	GATE	94- 58
47	74H62	N74H62N	PHIN	GATE	113-107	157	74L30	DM74L30N	NSC	GATE	94- 59
48	74H62	N74H62N	VALG	GATE	113-107	158	74L42	DM74L42AN	NSC	DECODER	119- 12
49	74H71	SN74H71J	TII	FLIP FLOP	46- 65	159	74L51	DM74L51N	NSC	GATE	83- 21
50	74H71	SN74H71N	TII	FLIP FLOP	46- 66	160	74L54	DM74L54N	NSC	GATE	83- 22
51	74H71	N74H71F	MULB	FLIP FLOP	45- 40	161	74L55	DM74L55N	NSC	GATE	83- 23
52	74H71	N74H71F	PHIN	FLIP FLOP	45- 40	162	74L71	DM74L71N	NSC	FLIP FLOP	49- 81
53	74H71	N74H71F	VALG	FLIP FLOP	45- 40	163	74L72	DM74L72N	NSC	FLIP FLOP	40- 71
54	74H71	N74H71N	MULB	FLIP FLOP	45- 41	164	74L73	DM74L73J	NSC	FLIP FLOP	40- 72
55	74H71	N74H71N	PHIN	FLIP FLOP	45- 41	165	74L73	DM74L73N	NSC	FLIP FLOP	40- 73
56	74H71	N74H71N	VALG	FLIP FLOP	45- 41	166	74L74	DM74L74N	NSC	FLIP FLOP	50- 39
57	74H72	SN74H72J	TII	FLIP FLOP	46- 67	167	74L77	SN74L77W	TII	LATCHES	178- 8
58	74H72	SN74H72N	TII	FLIP FLOP	46- 68	168	74L78	DM74L78N	NSC	FLIP FLOP	40- 74
59	74H72	74H72DC	FSC	FLIP FLOP	42- 69	169	74L85	DM74L85N	NSC	MAGN COMP	166- 78
60	74H72	74H72PC	FSC	FLIP FLOP	42- 70	170	74L85	DM74L85W	NSC	MAGN COMP	166- 75
61	74H72	N74H72F	MULB	FLIP FLOP	45- 42	171	74L86	DM74L86N	NSC	GATE	111- 19
62	74H72	N74H72F	PHIN	FLIP FLOP	45- 42	172	74L90	DM74L90N	NSC	COUNTER	140- 23
63	74H72	N74H72F	VALG	FLIP FLOP	45- 42	173	74L93	DM74L93N	NSC	COUNTER	145- 44
64	74H72	N74H72N	MULB	FLIP FLOP	45- 43	174	74L123	DM74L123N	NSC	TIME DELAY	124- 67
65	74H72	N74H72N	PHIN	FLIP FLOP	45- 43	175	74L154	DM74L154AN	NSC	DECODER	118- 44
66	74H72	N74H72N	VALG	FLIP FLOP	45- 43	176	74L192	DM74L192N	NSC	COUNTER	140- 26
67	74H73	SN74H73J	TII	FLIP FLOP	46- 69	177	74L193	DM74L193N	NSC	COUNTER	145- 21
68	74H73	SN74H73N	TII	FLIP FLOP	46- 70	178	74LS00	MB74LS00	FCAJ	GATE	104- 20
69	74H73	74H73DC	FSC	FLIP FLOP	42- 71	179	74LS00	MB74LS00M	FCAJ	GATE	104- 21
70	74H73	74H73PC	FSC	FLIP FLOP	42- 72	180	74LS00	T74LS00B1	SGAI	GATE	108- 47
71	74H73	N74H73F	MULB	FLIP FLOP	45- 44	181	74LS00	T74LS00D1	SGAI	GATE	108- 48
72	74H73	N74H73F	PHIN	FLIP FLOP	45- 44	182	74LS00	SN74LS00J	MOTA	GATE	107- 62
73	74H73	N74H73F	VALG	FLIP FLOP	45- 44	183	74LS00	SN74LS00J	TII	GATE	107- 62
74	74H73	N74H73N	MULB	FLIP FLOP	45- 45	184	74LS00	SN74LS00N	MOTA	GATE	107- 63
75	74H73	N74H73N	PHIN	FLIP FLOP	45- 45	185	74LS00	SN74LS00N	TII	GATE	107- 63
76	74H73	N74H73N	VALG	FLIP FLOP	45- 45	186	74LS00	HD74LS00	HITJ	GATE	99- 85
77	74H74	DM74H74N	NSC	FLIP FLOP	51- 58	187	74LS00	HD74LS00P	HITJ	GATE	99- 86
78	74H74	SN74H74J	TII	FLIP FLOP	53- 13	188	74LS00	74LS00DC	FSC	GATE	98- 69
79	74H74	SN74H74N	TII	FLIP FLOP	53- 14	189	74LS00	74LS00PC	FSC	GATE	98- 70
80	74H74	74H74DC	FSC	FLIP FLOP	51- 37	190	74LS00	N74LS00D	SIC	GATE	104- 91
81	74H74	74H74PC	FSC	FLIP FLOP	51- 38	191	74LS00	N74LS00N	MULB	GATE	104- 92
82	74H74	N74H74F	MULB	FLIP FLOP	52- 50	192	74LS00	N74LS00N	PHIN	GATE	104- 92
83	74H74	N74H74F	PHIN	FLIP FLOP	52- 50	193	74LS00	N74LS00N	SIC	GATE	104- 92
84	74H74	N74H74F	VALG	FLIP FLOP	52- 50	194	74LS00	N74LS00N	VALG	GATE	104- 92
85	74H74	N74H74N	MULB	FLIP FLOP	52- 51	195	74LS00	M74LS00P	MITJ	GATE	100- 13
86	74H74	N74H74N	PHIN	FLIP FLOP	52- 51	196	74LS01	MB74LS01	FCAJ	GATE	104- 22
87	74H74	N74H74N	VALG	FLIP FLOP	52- 51	197	74LS01	MB74LS01M	FCAJ	GATE	104- 23
88	74H76	SN74H76J	TII	FLIP FLOP	46- 71	198	74LS01	SN74LS01J	MOTA	GATE	107- 64
89	74H76	SN74H76N	TII	FLIP FLOP	46- 72	199	74LS01	SN74LS01J	TII	GATE	107- 64
90	74H76	N74H76F	MULB	FLIP FLOP	45- 46	200	74LS01	SN74LS01N	MOTA	GATE	107- 65
91	74H76	N74H76F	PHIN	FLIP FLOP	45- 46	201	74LS01	SN74LS01N	TII	GATE	107- 65
92	74H76	N74H76F	VALG	FLIP FLOP	45- 46	202	74LS01	HD74LS01	HITJ	GATE	99- 87
93	74H76	N74H76N	MULB	FLIP FLOP	45- 47	203	74LS01	HD74LS01P	HITJ	GATE	99- 88
94	74H76	N74H76N	PHIN	FLIP FLOP	45- 47	204	74LS01	N74LS01F	MULB	GATE	104- 93
95	74H76	N74H76N	VALG	FLIP FLOP	45- 47	205	74LS01	N74LS01F	PHIN	GATE	104- 93
96	74H78	SN74H78J	TII	FLIP FLOP	46- 73	206	74LS01	N74LS01F	VALG	GATE	104- 93
97	74H78	SN74H78N	TII	FLIP FLOP	46- 74	207	74LS01	N74LS01N	MULB	GATE	104- 94
98	74H87	SN74H87J	TII	SPECIAL	182- 86	208	74LS01	N74LS01N	PHIN	GATE	104- 94
99	74H87	SN74H87N	TII	SPECIAL	182- 87	209	74LS01	N74LS01N	SIC	GATE	104- 94
100	74H87	74H87DC	FSC	SPECIAL	182- 76	210	74LS01	N74LS01N	VALG	GATE	104- 94
101	74H87	74H87PC	FSC	SPECIAL	182- 76	211	74LS02	MB74LS02	FCAJ	GATE	92- 8
102	74H101	SN74H101J	TII	FLIP FLOP	46- 75	212	74LS02	MB74LS02M	FCAJ	GATE	92- 9
103	74H101	SN74H101N	TII	FLIP FLOP	46- 76	213	74LS02	T74LS02B1	SGAI	GATE	93- 19
104	74H101	74H101PC	FSC	FLIP FLOP	42- 73	214	74LS02	T74LS02P1	SGAI	GATE	93- 20
105	74H101	N74H101F	MULB	FLIP FLOP	45- 48	215	74LS02	SN74LS			

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2	74LS02	74LS02PC	FSC	GATE	90-57	112	74LS11	N74LS11N	RTCF	GATE	79-65
3	74LS02	N74LS02D	SIC	GATE	92-20	113	74LS11	N74LS11N	SIC	GATE	79-65
4	74LS02	N74LS02N	MULB	GATE	92-21	114	74LS11	N74LS11P	VALG	GATE	79-65
5	74LS02	N74LS02N	PHIN	GATE	92-21	115	74LS11	N74LS11P	MITJ	GATE	78-33
6	74LS02	N74LS02N	SIC	GATE	92-21	116	74LS12	MB74LS12	FCAJ	GATE	104-28
7	74LS02	N74LS02N	VALG	GATE	92-21	117	74LS12	MB74LS12M	FCAJ	GATE	104-29
8	74LS02	M74LS02P	MITJ	GATE	91-20	118	74LS12	SN74LS12J	MOTA	GATE	107-70
9	74LS03	MB74LS03	FCAJ	GATE	104-24	119	74LS12	SN74LS12J	TII	GATE	107-70
10	74LS03	MB74LS03M	FCAJ	GATE	104-25	120	74LS12	SN74LS12N	MOTA	GATE	107-71
11	74LS03	T74LS03B1	SGAI	GATE	108-49	121	74LS12	SN74LS12N	TII	GATE	107-71
12	74LS03	T74LS03D1	SGAI	GATE	108-50	122	74LS12	HD74LS12	HITJ	GATE	99-93
13	74LS03	SN74LS03J	MOTA	GATE	107-66	123	74LS12	HD74LS12P	HITJ	GATE	99-94
14	74LS03	SN74LS03J	TII	GATE	107-66	124	74LS12	N74LS12F	MULB	GATE	104-99
15	74LS03	SN74LS03N	MOTA	GATE	107-67	125	74LS12	N74LS12F	PHIN	GATE	104-99
16	74LS03	SN74LS03N	TII	GATE	107-67	126	74LS12	N74LS12F	VALG	GATE	104-99
17	74LS03	HD74LS03	HITJ	GATE	99-89	127	74LS12	N74LS12N	MULB	GATE	104-100
18	74LS03	HD74LS03P	HITJ	GATE	99-90	128	74LS12	N74LS12N	PHIN	GATE	104-100
19	74LS03	74LS03DC	FSC	GATE	98-71	129	74LS12	N74LS12N	VALG	GATE	104-100
20	74LS03	74LS03PC	FSC	GATE	98-72	130	74LS12	M74LS12P	MITJ	GATE	100-16
21	74LS03	N74LS03F	MULB	GATE	104-95	131	74LS14	HD74LS14	HITJ	GATE	115-24
22	74LS03	N74LS03F	PHIN	GATE	104-95	132	74LS14	HD74LS14P	HITJ	GATE	115-25
23	74LS03	N74LS03J	VALG	GATE	104-95	133	74LS15	T74LS15B1	SGAI	GATE	79-42
24	74LS03	N74LS03N	MULB	GATE	104-96	134	74LS15	MB74LS15	FCAJ	GATE	79-42
25	74LS03	N74LS03N	PHIN	GATE	104-96	135	74LS15	N74LS15D1	SGAI	GATE	81-23
26	74LS03	N74LS03N	VALG	GATE	104-96	136	74LS15	MB74LS15M	FCAJ	GATE	79-43
27	74LS03	M74LS03P	MITJ	GATE	100-14	137	74LS15	SN74LS15J	MOTA	GATE	81-4
28	74LS04	HD74LS04	HITJ	GATE	115-34	138	74LS15	SN74LS15J	TII	GATE	81-4
29	74LS04	HD74LS04P	HITJ	GATE	115-35	139	74LS15	SN74LS15N	MOTA	GATE	81-5
30	74LS04	N74LS04F	SIC	GATE	115-44	140	74LS15	SN74LS15N	TII	GATE	81-5
31	74LS04	N74LS04F	VALG	GATE	115-44	141	74LS15	HD74LS15	HITJ	GATE	78-21
32	74LS04	N74LS04N	SIC	GATE	115-45	142	74LS15	HD74LS15P	HITJ	GATE	78-22
33	74LS04	N74LS04N	VALG	GATE	115-45	143	74LS15	74LS15PC	FSC	GATE	77-69
34	74LS04	M74LS04P	MITJ	GATE	115-21	144	74LS15	N74LS15F	MULB	GATE	79-66
35	74LS05	HD74LS05	HITJ	GATE	115-36	145	74LS15	N74LS15F	PHIN	GATE	79-66
36	74LS05	HD74LS05P	HITJ	GATE	115-37	146	74LS15	N74LS15F	VALG	GATE	79-66
37	74LS05	N74LS05F	SIC	GATE	115-46	147	74LS15	N74LS15N	MULB	GATE	79-67
38	74LS05	N74LS05F	VALG	GATE	115-46	148	74LS15	N74LS15N	PHIN	GATE	79-67
39	74LS05	N74LS05N	SIC	GATE	115-47	149	74LS15	N74LS15N	VALG	GATE	79-67
40	74LS05	N74LS05N	VALG	GATE	115-47	150	74LS15	N74LS15P	MITJ	GATE	78-34
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47	74LS08	SN74LS08J	TII	GATE	80-108	157	74LS20	T74LS20D1	SGAI	GATE	108-54
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49	74LS08	SN74LS08N	TII	GATE	80-109	159	74LS20	SN74LS20J	MOTA	GATE	107-72
50	74LS08	HD74LS08	HITJ	GATE	78-15	160	74LS20	SN74LS20J	TII	GATE	107-72
51	74LS08	HD74LS08P	HITJ	GATE	78-16	161	74LS20	SN74LS20N	MOTA	GATE	107-73
52	74LS08	74LS08DC	FSC	GATE	77-64	162	74LS20	SN74LS20N	TII	GATE	107-73
53	74LS08	74LS08PC	FSC	GATE	77-65	163	74LS20	HD74LS20	HITJ	GATE	99-95
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55	74LS08	N74LS08N	MULB	GATE	79-61	165	74LS20	74LS20DC	FSC	GATE	98-75
56	74LS08	N74LS08N	PHIN	GATE	79-61	166	74LS20	74LS20PC	FSC	GATE	98-76
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59	74LS08	N74LS08N	VALG	GATE	79-61	169	74LS20	N74LS20N	PHIN	GATE	105-2
60	74LS08	M74LS08P	MITJ	GATE	78-31	170	74LS20	N74LS20N	RTCF	GATE	105-2
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62	74LS09	MB74LS09M	FCAJ	GATE	79-39	172	74LS20	N74LS20N	VALG	GATE	105-2
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71	74LS09	74LS09PC	FSC	GATE	77-66	181	74LS21	SN74LS21N	TII	GATE	81-7
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83	74LS37	SN74LS37J	TII	GATE	107- 80	193	74LS73	N74LS73F	VALG	FLIP FLOP	45- 58
84	74LS37	SN74LS37N	TII	GATE	107- 81	194	74LS73	N74LS73N	MULB	FLIP FLOP	45- 59
85	74LS37	HD74LS37	HITJ	GATE	99-103	195	74LS73	N74LS73N	PHIN	FLIP FLOP	45- 59
86	74LS37	HD74LS37P	HITJ	GATE	99-104	196	74LS73	N74LS73N	RTCF	FLIP FLOP	45- 59
87	74LS37	74LS37DC	FSC	GATE	98- 82	197	74LS73	N74LS73N	SIC	FLIP FLOP	45- 59
88	74LS37	74LS37PC	FSC	GATE	98- 83	198	74LS73	N74LS73N	VALG	FLIP FLOP	45- 59
89	74LS37	M74LS37P	MITJ	GATE	100- 20	199	74LS73	M74LS73AP	MITJ	FLIP FLOP	43- 29
90	74LS38	MB74LS38	FCAJ	GATE	104- 40	200	74LS74	T74LS74B1	SGAI	FLIP FLOP	53- 26
91	74LS38	MB74LS38M	FCAJ	GATE	104- 41	201	74LS74	T74LS74D1	SGAI	FLIP FLOP	53- 27
92	74LS38	SN74LS38J	TII	GATE	107- 82	202	74LS74	MB74LS74A	FCAJ	FLIP FLOP	52- 42
93	74LS38	SN74LS38N	TII	GATE	107- 83	203	74LS74	MB74LS74AM	FCAJ	FLIP FLOP	52- 43
94	74LS38	HD74LS38	HITJ	GATE	99-105	204	74LS74	SN74LS74AJ	MOTA	FLIP FLOP	51- 4
95	74LS38	HD74LS38P	HITJ	GATE	99-106	205	74LS74	SN74LS74AJ	TII	FLIP FLOP	51- 4
96	74LS38	M74LS38P	MITJ	GATE	100- 21	206	74LS74	SN74LS74AN	MOTA	FLIP FLOP	51- 5
97	74LS40	MB74LS40	FCAJ	GATE	104- 42	207	74LS74	SN74LS74AN	TII	FLIP FLOP	51- 5
98	74LS40	MB74LS40M	FCAJ	GATE	104- 43	208	74LS74	HD74LS74A	HITJ	FLIP FLOP	51- 70
99	74LS40	SN74LS40J	TII	GATE	107- 84	209	74LS74	HD74LS74AP	HITJ	FLIP FLOP	51- 71
100	74LS40	SN74LS40N	TII	GATE	107- 85	210	74LS74	N74LS74AF	MULB	FLIP FLOP	52- 52
101	74LS40	HD74LS40	HITJ	GATE	99-107	211	74LS74	N74LS74AF	PHIN	FLIP FLOP	52- 52
102	74LS40	HD74LS40P	HITJ	GATE	99-108	212	74LS74	N74LS74AF	RTCF	FLIP FLOP	52- 52
103	74LS40	M74LS40P	MITJ	GATE	100- 22	213	74LS74	N74LS74AF	VALG	FLIP FLOP	52- 52
104	74LS42	MB74LS42	FCAJ	DECODER	121- 62	214	74LS74	N74LS74AN	PHIN	FLIP FLOP	52- 53
105	74LS42	MB74LS42M	FCAJ	DECODER	121- 63	215	74LS74	N74LS74AN	RTCF	FLIP FLOP	52- 53
106	74LS42	SN74LS42J	MOTA	DECODER	120- 35	216	74LS74	N74LS74AN	SIC	FLIP FLOP	52- 53
107	74LS42	SN74LS42J	TII	DECODER	120- 35	217	74LS74	N74LS74AN	VALG	FLIP FLOP	52- 53
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5	74LS75	HD74LS75P	HITJ	FLIP FLOP	51- 73	115	74LS86	N74LS86F	VALG	GATE	112- 43
6	74LS75	N74LS75F	MULB	LATCHES	177- 50	116	74LS86	N74LS86N	MULB	GATE	112- 44
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9	74LS75	N74LS75F	VALG	LATCHES	177- 50	119	74LS86	N74LS86N	SIC	GATE	112- 44
10	74LS75	N74LS75N	MULB	LATCHES	177- 51	120	74LS86	N74LS86N	VALG	GATE	112- 44
11	74LS75	N74LS75N	PHIN	LATCHES	177- 51	121	74LS86	M74LS86P	MITJ	GATE	112- 2
12	74LS75	N74LS75N	RTCF	LATCHES	177- 51	122	74LS86	SN74LS90J	MOTA	COUNTER	143- 52
13	74LS75	N74LS75N	SIC	LATCHES	177- 51	123	74LS90	SN74LS90J	TII	COUNTER	143- 52
14	74LS75	N74LS75N	VALG	LATCHES	177- 51	124	74LS90	SN74LS90N	MOTA	COUNTER	143- 53
15	74LS75	M74LS75P	MITJ	LATCHES	177- 44	125	74LS90	SN74LS90N	TII	COUNTER	143- 53
16	74LS76	MB74LS76A	FCAJ	FLIP FLOP	45- 18	126	74LS90	HD74LS90	HITJ	COUNTER	151- 48
17	74LS76	MB74LS76AM	FCAJ	FLIP FLOP	45- 19	127	74LS90	HD74LS90P	HITJ	COUNTER	151- 49
18	74LS76	SN74LS76AJ	MOTA	FLIP FLOP	46- 87	128	74LS90	74LS90DC	FSC	COUNTER	143- 59
19	74LS76	SN74LS76AJ	TII	FLIP FLOP	46- 87	129	74LS90	74LS90PC	FSC	COUNTER	143- 60
20	74LS76	SN74LS76AN	MOTA	FLIP FLOP	46- 88	130	74LS90	N74LS90F	MULB	COUNTER	140- 43
21	74LS76	SN74LS76AN	TII	FLIP FLOP	46- 88	131	74LS90	N74LS90F	PHIN	COUNTER	140- 43
22	74LS76	HD74LS76	HITJ	FLIP FLOP	43- 15	132	74LS90	N74LS90F	RTCF	COUNTER	140- 43
23	74LS76	HD74LS76P	HITJ	FLIP FLOP	43- 16	133	74LS90	N74LS90F	VALG	COUNTER	140- 43
24	74LS76	74LS76DC	FSC	FLIP FLOP	42- 80	134	74LS90	N74LS90N	MULB	COUNTER	140- 44
25	74LS76	74LS76PC	FSC	FLIP FLOP	42- 81	135	74LS90	N74LS90N	PHIN	COUNTER	140- 44
26	74LS76	N74LS76F	MULB	FLIP FLOP	45- 60	136	74LS90	N74LS90N	RTCF	COUNTER	140- 44
27	74LS76	N74LS76F	PHIN	FLIP FLOP	45- 60	137	74LS90	N74LS90N	SIC	COUNTER	140- 44
28	74LS76	N74LS76F	RTCF	FLIP FLOP	45- 60	138	74LS90	N74LS90N	VALG	COUNTER	140- 44
29	74LS76	N74LS76F	VALG	FLIP FLOP	45- 60	139	74LS90	M74LS90P	MITJ	COUNTER	143- 75
30	74LS76	N74LS76N	MULB	FLIP FLOP	45- 61	140	74LS92	DM74LS92N	NSC	COUNTER	152- 20
31	74LS76	N74LS76N	PHIN	FLIP FLOP	45- 61	141	74LS92	SN74LS92J	MOTA	COUNTER	153- 35
32	74LS76	N74LS76N	RTCF	FLIP FLOP	45- 61	142	74LS92	SN74LS92J	TII	COUNTER	153- 35
33	74LS76	N74LS76N	SIC	FLIP FLOP	45- 61	143	74LS92	SN74LS92N	MOTA	COUNTER	153- 36
34	74LS76	N74LS76N	VALG	FLIP FLOP	45- 61	144	74LS92	SN74LS92N	TII	COUNTER	153- 36
35	74LS76	M74LS76AP	MITJ	FLIP FLOP	43- 31	145	74LS92	HD74LS92	HITJ	COUNTER	153- 31
36	74LS77	SN74LS77J	MOTA	LATCHES	177- 42	146	74LS92	HD74LS92P	HITJ	COUNTER	153- 32
37	74LS77	SN74LS77N	MOTA	LATCHES	177- 43	147	74LS92	74LS92PC	FSC	COUNTER	153- 26
38	74LS77	HD74LS77	HITJ	LATCHES	178- 43	148	74LS92	N74LS92F	MULB	COUNTER	153- 19
39	74LS77	HD74LS77P	HITJ	LATCHES	178- 44	149	74LS92	N74LS92F	PHIN	COUNTER	153- 19
40	74LS78	MB74LS78	FCAJ	FLIP FLOP	45- 20	150	74LS92	N74LS92F	RTCF	COUNTER	153- 19
41	74LS78	MB74LS78AM	FCAJ	FLIP FLOP	45- 21	151	74LS92	N74LS92F	VALG	COUNTER	153- 19
42	74LS78	SN74LS78AJ	MOTA	FLIP FLOP	46- 89	152	74LS92	N74LS92N	MULB	COUNTER	153- 20
43	74LS78	SN74LS78AJ	TII	FLIP FLOP	46- 89	153	74LS92	N74LS92N	PHIN	COUNTER	153- 20
44	74LS78	SN74LS78AN	MOTA	FLIP FLOP	46- 90	154	74LS92	N74LS92N	RTCF	COUNTER	153- 20
45	74LS78	SN74LS78AN	TII	FLIP FLOP	46- 90	155	74LS92	N74LS92N	SIC	COUNTER	153- 20
46	74LS78	HD74LS78	HITJ	FLIP FLOP	43- 17	156	74LS92	N74LS92N	VALG	COUNTER	153- 20
47	74LS78	HD74LS78P	HITJ	FLIP FLOP	43- 18	157	74LS92	M74LS92P	MITJ	COUNTER	153- 45
48	74LS78	N74LS78F	MULB	FLIP FLOP	45- 62	158	74LS93	DM74LS93N	NSC	COUNTER	152- 21
49	74LS78	N74LS78F	PHIN	FLIP FLOP	45- 62	159	74LS93	SN74LS93J	MOTA	COUNTER	150- 4
50	74LS78	N74LS78F	VALG	FLIP FLOP	45- 62	160	74LS93	SN74LS93J	TII	COUNTER	150- 4
51	74LS78	N74LS78N	MULB	FLIP FLOP	45- 63	161	74LS93	SN74LS93N	MOTA	COUNTER	150- 5
52	74LS78	N74LS78N	PHIN	FLIP FLOP	45- 63	162	74LS93	SN74LS93N	TII	COUNTER	150- 5
53	74LS78	N74LS78N	VALG	FLIP FLOP	45- 63	163	74LS93	HD74LS93	HITJ	COUNTER	148- 19
54	74LS83	T74LS83B1	SGAI	ADDER	161- 76	164	74LS93	HD74LS93P	HITJ	COUNTER	148- 20
55	74LS83	T74LS83D1	SGAI	ADDER	161- 77	165	74LS93	74LS93DC	FSC	COUNTER	147-102
56	74LS83	DM74LS83AN	NSC	ADDER	161- 84	166	74LS93	74LS93PC	FSC	COUNTER	148- 1
57	74LS83	MB74LS83A	FCAJ	ADDER	161- 42	167	74LS93	N74LS93F	MULB	COUNTER	145- 53
58	74LS83	MB74LS83AM	FCAJ	ADDER	161- 43	168	74LS93	N74LS93F	PHIN	COUNTER	145- 53
59	74LS83	SN74LS83AJ	MOTA	ADDER	161- 62	169	74LS93	N74LS93F	RTCF	COUNTER	145- 53
60	74LS83	SN74LS83AJ	TII	ADDER	161- 62	170	74LS93	N74LS93F	VALG	COUNTER	145- 53
61	74LS83	SN74LS83AN	MOTA	ADDER	161- 63	171	74LS93	N74LS93N	MULB	COUNTER	145- 54
62	74LS83	SN74LS83AN	TII	ADDER	161- 63	172	74LS93	N74LS93N	PHIN	COUNTER	145- 54
63	74LS83	HD74LS83A	HITJ	ADDER	161- 32	173	74LS93	N74LS93N	RTCF	COUNTER	145- 54
64	74LS83	HD74LS83AP	HITJ	ADDER	161- 33	174	74LS93	N74LS93N	SIC	COUNTER	145- 54
65	74LS83	74LS83ADC	FSC	ADDER	161- 37	175	74LS93	N74LS93N	VALG	COUNTER	145- 54
66	74LS83	74LS83APC	FSC	ADDER	160- 33	176	74LS93	M74LS93P	MITJ	COUNTER	150- 34
67	74LS83	N74LS83AF	MULB	ADDER	161- 46	177	74LS107	MB74LS107	FCAJ	FLIP FLOP	45- 22
68	74LS83	N74LS83AF	PHIN	ADDER	161- 46	178	74LS107	MB74LS107A	FCAJ	FLIP FLOP	45- 23
69	74LS83	N74LS83AF	RTCF	ADDER	161- 46	179	74LS107	MB74LS107AM	FCAJ	FLIP FLOP	45- 24
70	74LS83	N74LS83AF	VALG	ADDER	161- 46	180	74LS107	MB74LS107M	FCAJ	FLIP FLOP	45- 25
71	74LS83	N74LS83AN	MULB	ADDER	161- 47	181	74LS107	SN74LS107AJ	MOTA	FLIP FLOP	46- 91
72	74LS83	N74LS83AN	PHIN	ADDER	161- 47	182	74LS107	SN74LS107AJ	TII	FLIP FLOP	46- 91
73	74LS83	N74LS83AN	RTCF	ADDER	161- 47	183	74LS107	SN74LS107AN	MOTA	FLIP FLOP	46- 92
74	74LS83	N74LS83AN	SIC	ADDER	161- 47	184	74LS107	SN74LS107AN	TII	FLIP FLOP	46- 92
75	74LS83	N74LS83AN	VALG	ADDER	161- 47	185	74LS107	HD74LS107	HITJ	FLIP FLOP	43- 19
76	74LS83	N74LS83F	MULB	ADDER	161- 48	186	74LS107	HD74LS107P	HITJ	FLIP FLOP	43- 20
77	74LS83	N74LS83F	PHIN	ADDER	161- 48	187	74LS107	N74LS107F	MULB	FLIP FLOP	45- 64
78	74LS83	M74LS83AP	MITJ	ADDER	161- 26	188	74LS107	N74LS107F	PHIN	FLIP FLOP	45- 64
79	74LS85	DM74LS85N	NSC	MAGN COMP	166- 17	189	74LS107	N74LS107F	RTCF	FLIP FLOP	45- 64
80	74LS85	MB74LS85	FCAJ	MAGN COMP	166- 61	190	74LS107	N74LS107F	VALG	FLIP FLOP	45- 64
81	74LS85	MB74LS85M	FCAJ	MAGN COMP	166- 62	191	74LS107	N74LS107N	MULB	FLIP FLOP	45- 65
82	74LS85	SN74LS85J	MOTA	MAGN COMP	166- 46	192	74LS107	N74LS107N	PHIN	FLIP FLOP	45- 65
83	74LS85	SN74LS85J	TII	MAGN COMP	166- 46	193	74LS107	N74LS107N	RTCF	FLIP FLOP	45- 65
84	74LS85	SN74LS85N	MOTA	MAGN COMP	166- 47	194	74LS107	N74LS107N	SIC	FLIP FLOP	45- 65
85	74LS85	SN74LS85N	TII	MAGN COMP	166- 47	195	74LS107	N74LS107N	VALG	FLIP FLOP	45- 65
86	74LS85	HD74LS85	HITJ	MAGN COMP	166- 3	196	74LS107	M74LS107AP	MITJ	FLIP FLOP	43- 32
87	74LS85	HD74LS85P	HITJ	MAGN COMP	166- 4	197	74LS109	T74LS109B1	HITJ	FLIP FLOP	47- 24
88	74LS85	74LS85DC	FSC	MAGN COMP	166- 41	198	74LS109	T74LS109D1	SGAI	FLIP FLOP	47- 25
89	74LS85	74LS85PC	FSC	MAGN COMP	166- 42	199	74LS109	MB74LS109A	FCAJ	FLIP FLOP	45- 26
90	74LS85	N74LS85F	MULB	MAGN COMP	166- 63	200	74LS109	MB74LS109AM	FCAJ	FLIP FLOP	45- 27
91	74LS85	N74LS85F	PHIN	MAGN COMP	166- 63	201	74LS109	SN74LS109AJ	MOTA	FLIP FLOP	46- 93
92	74LS85	N74LS85F	RTCF	MAGN COMP	166- 63	202	74LS109	SN74LS109AJ	TII	FLIP FLOP	46- 93
93	74LS85	N74LS85F	VALG	MAGN COMP	166- 63	203	74LS109	SN74LS109AN	MOTA	FLIP FLOP	46- 94
94	74LS85	N74LS85N	MULB	MAGN COMP	166- 64	204	74LS109	SN74LS109AN	TII	FLIP FLOP	46- 94
95	74LS85	N74LS85N	PHIN	MAGN COMP	166- 64	205	74LS109	HD74LS109A	HITJ	FLIP FLOP	43- 21
96	74LS85	N74LS85N	RTCF	MAGN COMP	166- 64	206	74LS109	HD74LS109AP	HITJ	FLIP FLOP	43- 22
97	74LS85	N74LS85N	SIC	MAGN COMP	166- 64	207	74LS109	74LS109DC	FSC	FLIP FLOP	42- 82
98	74LS85	N74LS85N	VALG	MAGN COMP	166- 64	208	74LS109	74LS109PC	FSC	FLIP FLOP	42- 83
99	74LS85	M74LS85P	MITJ	MAGN COMP	166- 43	209	74LS109	N74LS109AF	MULB	FLIP FLOP	45- 66
100	74LS86	T74LS86B1	SGAI	GATE	112- 86	210	74LS109	N74LS109AF	PHIN	FLIP FLOP	45- 66
101	74LS86	T74LS86D1	SGAI	GATE	112- 87	211	74LS109	N74LS109AF	VALG	FLIP FLOP	45- 66
102	74LS86	MB74LS86	FCAJ	GATE	112- 29	212	74LS109	N74LS109AN	MULB	FLIP FLOP	45- 67
103	74LS86	MB74LS86M	FCAJ	GATE	112- 30	213	74LS109	N74LS109AN	PHIN	FLIP FLOP	45- 67
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9	74LS112	SN74LS112AN	MOTA	FLIP FLOP	46- 96	119	74LS138	SN74LS138J	AMD	DECODER	121- 91
10	74LS112	SN74LS112AN	TII	FLIP FLOP	46- 96	120	74LS138	SN74LS138J	TII	DECODER	121- 91
11	74LS112	HD74LS112	HITJ	FLIP FLOP	43- 23	121	74LS138	SN74LS138N	AMD	DECODER	121- 92
12	74LS112	HD74LS112P	HITJ	FLIP FLOP	43- 24	122	74LS138	SN74LS138N	TII	DECODER	121- 92
13	74LS112	74LS112DC	FSC	FLIP FLOP	42- 64	123	74LS138	HD74LS138	HITJ	DECODER	118- 45
14	74LS112	74LS112PC	FSC	FLIP FLOP	42- 85	124	74LS138	HD74LS138P	HITJ	DECODER	118- 46
15	74LS112	N74LS112F	MULB	FLIP FLOP	45- 69	125	74LS138	N74LS138F	MULB	DECODER	121- 79
16	74LS112	N74LS112F	PHIN	FLIP FLOP	45- 69	126	74LS138	N74LS138N	MULB	DECODER	121- 80
17	74LS112	N74LS112F	RTCF	FLIP FLOP	45- 69	127	74LS138	M74LS138P	MITJ	DECODER	118- 15
18	74LS112	N74LS112F	VALG	FLIP FLOP	45- 69	128	74LS139	MB74LS139	FCAJ	DECODER	121- 39
19	74LS112	N74LS112N	MULB	FLIP FLOP	45- 70	129	74LS139	MB74LS139M	FCAJ	DECODER	121- 40
20	74LS112	N74LS112N	PHIN	FLIP FLOP	45- 70	130	74LS139	SN74LS139J	AMD	DECODER	121- 49
21	74LS112	N74LS112N	RTCF	FLIP FLOP	45- 70	131	74LS139	SN74LS139J	TII	DECODER	121- 49
22	74LS112	N74LS112N	SIC	FLIP FLOP	45- 70	132	74LS139	SN74LS139N	AMD	DECODER	121- 50
23	74LS112	N74LS112N	VALG	FLIP FLOP	45- 70	133	74LS139	SN74LS139N	TII	DECODER	121- 50
24	74LS112	M74LS112AP	MITJ	FLIP FLOP	43- 33	134	74LS139	HD74LS139	HITJ	DECODER	118- 47
25	74LS113	T74LS113B1	SGAI	FLIP FLOP	47- 28	135	74LS139	HD74LS139P	HITJ	DECODER	118- 48
26	74LS113	T74LS113D1	SGAI	FLIP FLOP	47- 29	136	74LS139	M74LS139P	MITJ	DECODER	121- 36
27	74LS113	MB74LS113A	FCAJ	FLIP FLOP	45- 30	137	74LS145	MB74LS145	FCAJ	DECODER	121- 64
28	74LS113	MB74LS113AM	FCAJ	FLIP FLOP	45- 31	138	74LS145	MB74LS145M	FCAJ	DECODER	120- 2
29	74LS113	SN74LS113AJ	MOTA	FLIP FLOP	46- 97	139	74LS145	M74LS145P	MITJ	DECODER	119- 59
30	74LS113	SN74LS113AJ	TII	FLIP FLOP	46- 97	140	74LS154	DM74LS154N	NSC	DECODER	120-105
31	74LS113	SN74LS113AN	MOTA	FLIP FLOP	46- 98	141	74LS155	DM74LS155N	NSC	DECODER	119- 26
32	74LS113	SN74LS113AN	TII	FLIP FLOP	46- 98	142	74LS155	MB74LS155	FCAJ	DECODER	121- 41
33	74LS113	HD74LS113	HITJ	FLIP FLOP	43- 25	143	74LS155	MB74LS155M	FCAJ	DECODER	121- 42
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4	74LS241	SN74LS241J	MMI	DECODER	117-106	114	74LS280	SN74LS280N	TII	PARITY GEN	173-34
5	74LS244	SN74LS244J	MMI	DECODER	117-107	115	74LS280	M74LS280P	MITJ	PARITY GEN	173-28
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7	74LS248	M74LS248P	MITJ	DECODER	120-93	117	74LS283	T74LS283D1	SGAI	ADDER	161-79
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9	74LS256	SN74LS256N	MOTA	LATCHES	178-88	119	74LS283	MB74LS283	FCAJ	ADDER	161-44
10	74LS256	74LS256DC	FSC	LATCHES	178-68	120	74LS283	MB74LS283M	FCAJ	ADDER	161-45
11	74LS256	74LS256PC	FSC	LATCHES	178-69	121	74LS283	HD74LS283	HITJ	ADDER	161-40
12	74LS256	N74LS256F	MULB	LATCHES	179-7	122	74LS283	HD74LS283P	HITJ	ADDER	161-41
13	74LS256	N74LS256F	PHIN	LATCHES	179-7	123	74LS283	SN74LS283J	MOTA	ADDER	161-64
14	74LS256	N74LS256F	RTCF	LATCHES	179-7	124	74LS283	SN74LS283J	TII	ADDER	161-64
15	74LS256	N74LS256F	SIC	LATCHES	179-7	125	74LS283	SN74LS283N	MOTA	ADDER	161-65
16	74LS256	N74LS256F	VALG	LATCHES	179-7	126	74LS283	SN74LS283N	TII	ADDER	161-65
17	74LS256	N74LS256N	MULB	LATCHES	179-8	127	74LS283	74LS283DC	FSC	ADDER	160-34
18	74LS256	N74LS256N	PHIN	LATCHES	179-8	128	74LS283	74LS283PC	FSC	ADDER	160-35
19	74LS256	N74LS256N	RTCF	LATCHES	179-8	129	74LS283	N74LS283D	SIC	ADDER	160-40
20	74LS256	N74LS256N	SIC	LATCHES	179-8	130	74LS283	N74LS283N	MULB	ADDER	161-49
21	74LS256	N74LS256N	VALG	LATCHES	179-8	131	74LS283	N74LS283N	PHIN	ADDER	161-49
22	74LS256	M74LS256P	MITJ	LATCHES	179-31	132	74LS283	N74LS283N	RTCF	ADDER	161-49
23	74LS259	DM74LS259N	NSC	LATCHES	180-102	133	74LS283	N74LS283N	SIC	ADDER	161-49
24	74LS259	SN74LS259J	MOTA	LATCHES	180-12	134	74LS283	N74LS283N	VALG	ADDER	161-49
25	74LS259	SN74LS259J	TII	LATCHES	180-12	135	74LS283	M74LS283P	MITJ	ADDER	161-27
26	74LS259	SN74LS259N	MOTA	LATCHES	180-13	136	74LS290	DM74LS290N	NSC	COUNTER	149-2
27	74LS259	SN74LS259N	TII	LATCHES	180-13	137	74LS290	HD74LS290	HITJ	COUNTER	151-7
28	74LS259	HD74LS259	HITJ	LATCHES	181-21	138	74LS290	HD74LS290P	HITJ	COUNTER	151-8
29	74LS259	HD74LS259P	HITJ	LATCHES	180-58	139	74LS290	SN74LS290J	MOTA	COUNTER	143-66
30	74LS259	74LS259DC	FSC	LATCHES	180-56	140	74LS290	SN74LS290J	TII	COUNTER	143-66
31	74LS259	74LS259PC	FSC	LATCHES	180-57	141	74LS290	SN74LS290N	MOTA	COUNTER	143-67
32	74LS259	N74LS259F	MULB	LATCHES	180-104	142	74LS290	SN74LS290N	TII	COUNTER	143-67
33	74LS259	N74LS259F	PHIN	LATCHES	180-104	143	74LS290	74LS290DC	FSC	COUNTER	151-73
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36	74LS259	N74LS259F	VALG	LATCHES	180-104	146	74LS290	N74LS290N	MULB	COUNTER	140-42
37	74LS259	N74LS259N	MULB	LATCHES	180-105	147	74LS290	N74LS290N	PHIN	COUNTER	140-42
38	74LS259	N74LS259N	PHIN	LATCHES	180-105	148	74LS290	N74LS290N	RTCF	COUNTER	140-42
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45	74LS260	74LS260DC	FSC	GATE	90-61	155	74LS293	HD74LS293	HITJ	COUNTER	145-51
46	74LS260	74LS260PC	FSC	GATE	90-62	156	74LS293	HD74LS293P	HITJ	COUNTER	145-52
47	74LS260	N74LS260D	SIC	GATE	92-24	157	74LS293	SN74LS293J	MOTA	COUNTER	150-28
48	74LS260	N74LS260N	MULB	GATE	92-25	158	74LS293	SN74LS293J	TII	COUNTER	150-28
49	74LS260	N74LS260N	PHIN	GATE	92-25	159	74LS293	SN74LS293N	MOTA	COUNTER	150-29
50	74LS260	N74LS260N	RTCF	GATE	92-25	160	74LS293	SN74LS293N	TII	COUNTER	150-29
51	74LS260	N74LS260N	SIC	GATE	92-25	161	74LS293	74LS293DC	FSC	COUNTER	149-20
52	74LS260	N74LS260N	VALG	GATE	92-25	162	74LS293	74LS293PC	FSC	COUNTER	149-21
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54	74LS261	SN74LS261N	TII	MULTIPLIER	163-32	164	74LS293	N74LS293N	MULB	COUNTER	145-56
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56	74LS261	N74LS261F	PHIN	MULTIPLIER	163-25	166	74LS293	N74LS293N	RTCF	COUNTER	145-56
57	74LS261	N74LS261F	VALG	MULTIPLIER	163-25	167	74LS293	N74LS293N	SIC	COUNTER	145-56
58	74LS261	N74LS261N	MULB	MULTIPLIER	163-26	168	74LS293	N74LS293N	VALG	COUNTER	145-56
59	74LS261	N74LS261N	PHIN	MULTIPLIER	163-26	169	74LS293	M74LS293P	MITJ	COUNTER	150-35
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67	74LS266	SN74LS266N	MOTA	GATE	115-17	177	74LS363	N74LS363F	PHIN	LATCHES	180-59
68	74LS266	SN74LS266N	TII	GATE	115-17	178	74LS363	N74LS363F	RTCF	LATCHES	180-59
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70	74LS266	74LS266PC	FSC	GATE	115-5	180	74LS363	N74LS363N	MULB	LATCHES	180-60
71	74LS266	N74LS266F	MULB	GATE	115-14	181	74LS363	N74LS363N	PHIN	LATCHES	180-60
72	74LS266	N74LS266F	PHIN	GATE	115-14	182	74LS363	N74LS363N	RTCF	LATCHES	180-60
73	74LS266	N74LS266F	RTCF	GATE	115-14	183	74LS363	N74LS363N	SIC	LATCHES	180-60
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91	74LS275	SN74LS275N	TII	SPECIAL	182-89	201	74LS373	SN74LS373J	TII	LATCHES	180-94
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95	74LS279	SN74LS279J	TII	LATCHES	177-36	205	74LS373	74LS373DC	FSC	LATCHES	178-17
96	74LS279	SN74LS279N	MOTA	LATCHES	177-37	206	74LS373	74LS373PC	FSC	LATCHES	180-75
97	74LS279	SN74LS279N	TII	LATCHES	177-37	207	74LS373	AM74LS373J	AMD	LATCHES	180-88
98	74LS279	74LS279DC	FSC	LATCHES	177-23	208	74LS373	AM74LS373N	AMD	LATCHES	180-89
99	74LS279	74LS279PC	FSC	LATCHES	177-24	209	74LS373	N74LS373D	SIC	LATCHES	181-6
100	74LS279	N74LS279F	MULB	LATCHES	177-26	210	74LS373	N74LS373N	MULB	LATCHES	181-7
101	74LS279	N74LS279F	PHIN	LATCHES	177-26	211	74LS373	N74LS373N	PHIN	LATCHES	181-7
102	74LS279	N74LS279F	VALG	LATCHES	177-26	212	74LS373	N74LS373N	RTCF	LATCHES	181-7
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59	74LS386	SN74LS386N	MOTA	GATE	112- 75	169	74LS593	SN74LS593N	TII	COUNTER	146- 33
60	74LS386	SN74LS386N	TII	GATE	112- 75	170	74LS604	SN74LS604J	TII	LATCHES	180- 14
61	74LS386	N74LS386F	MULB	GATE	112- 47	171	74LS604	SN74LS604N	TII	LATCHES	180- 15
62	74LS386	N74LS386F	PHIN	GATE	112- 47	172	74LS605	SN74LS605J	TII	LATCHES	179- 40
63	74LS386	N74LS386N	MULB	GATE	112- 48	173	74LS605	SN74LS605N	TII	LATCHES	179- 41
64	74LS386	N74LS386N	PHIN	GATE	112- 48	174	74LS606	SN74LS606J	TII	LATCHES	180- 16
65	74LS386	M74LS386P	MITJ	GATE	112- 5	175	74LS606	SN74LS606N	TII	LATCHES	180- 17
66	74LS390	DM74LS390N	NSC	COUNTER	142- 64	176	74LS607	SN74LS607J	TII	LATCHES	179- 42
67	74LS390	HD74LS390	HITJ	COUNTER	152- 45	177	74LS607	SN74LS607N	TII	LATCHES	179- 43
68	74LS390	HD74LS390P	HITJ	COUNTER	152- 46	178	74LS624	SN74LS624J	TII	CLOCK/MV	155- 38
69	74LS390	SN74LS390J	MOTA	COUNTER	141- 13	179	74LS624	SN74LS624N	TII	CLOCK/MV	155- 39
70	74LS390	SN74LS390J	TII	COUNTER	141- 13	180	74LS625	SN74LS625J	TII	CLOCK/MV	155- 40
71	74LS390	SN74LS390N	MOTA	COUNTER	141- 14	181	74LS625	SN74LS625N	TII	CLOCK/MV	155- 41
72	74LS390	SN74LS390N	TII	COUNTER	141- 14	182	74LS626	SN74LS626J	TII	CLOCK/MV	155- 42
73	74LS390	74LS390DC	FSC	COUNTER	140- 58	183	74LS626	SN74LS626N	TII	CLOCK/MV	155- 43
74	74LS390	74LS390PC	FSC	COUNTER	140- 59	184	74LS627	SN74LS627J	TII	CLOCK/MV	155- 44
75	74LS390	N74LS390D	SIC	COUNTER	140- 78	185	74LS627	SN74LS627N	TII	CLOCK/MV	155- 45
76	74LS390	N74LS390N	MULB	COUNTER	140- 79	186	74LS628	SN74LS628J	TII	CLOCK/MV	155- 46
77	74LS390	N74LS390N	PHIN	COUNTER	140- 79	187	74LS628	SN74LS628N	TII	CLOCK/MV	155- 47
78	74LS390	N74LS390N	RTCF	COUNTER	140- 79	188	74LS629	SN74LS629J	TII	CLOCK/MV	155- 48
79	74LS390	N74LS390N	SIC	COUNTER	140- 79	189	74LS629	SN74LS629N	TII	CLOCK/MV	155- 49
80	74LS390	N74LS390N	VALG	COUNTER	140- 79	190	74LS630	SN74LS630J	TII	SPECIAL	182- 48
81	74LS390	M74LS390P	MITJ	COUNTER	143- 77	191	74LS630	SN74LS630N	TII	SPECIAL	182- 49
82	74LS393	DM74LS393N	NSC	COUNTER	148- 49	192	74LS631	SN74LS631J	TII	SPECIAL	182- 50
83	74LS393	HD74LS393	HITJ	COUNTER	146- 66	193	74LS631	SN74LS631N	TII	SPECIAL	182- 51
84	74LS393	HD74LS393P	HITJ	COUNTER	146- 67	194	74LS668	HD74LS668	HITJ	COUNTER	151- 27
85	74LS393	SN74LS393J	MOTA	COUNTER	146- 24	195	74LS668	HD74LS668P	HITJ	COUNTER	151- 28
86	74LS393	SN74LS393J	TII	COUNTER	146- 24	196	74LS668	SN74LS668J	TII	COUNTER	141- 85
87	74LS393	SN74LS393N	MOTA	COUNTER	146- 25	197	74LS668	SN74LS668J#	MOTA	COUNTER	152- 2
88	74LS393	SN74LS393N	TII	COUNTER	146- 25	198	74LS668	SN74LS668N	TII	COUNTER	141- 86
89	74LS393	74LS393DC	FSC	COUNTER	145- 65	199	74LS668	SN74LS668N#	MOTA	COUNTER	152- 3
90	74LS393	74LS393PC	FSC	COUNTER	145- 66	200	74LS668	M74LS668P	MITJ	COUNTER	139- 83
91	74LS393	N74LS393D	SIC	COUNTER	146- 77	201	74LS669	HD74LS669	HITJ	COUNTER	146- 68
92	74LS393	N74LS393N	MULB	COUNTER	146- 78	202	74LS669	HD74LS669P	HITJ	COUNTER	146- 69
93	74LS393	N74LS393N	PHIN	COUNTER	146- 78	203	74LS669	SN74LS669J	TII	COUNTER	147- 36
94	74LS393	N74LS393N	RTCF	COUNTER	146- 78	204	74LS669	SN74LS669J#	MOTA	COUNTER	149- 85
95	74LS393	N74LS393N	SIC	COUNTER	146- 78	205	74LS669	SN74LS669N	TII	COUNTER	147- 37
96	74LS393	N74LS393N	VALG	COUNTER	146- 78	206	74LS669	SN74LS669N#	MOTA	COUNTER	149- 86
97	74LS393	M74LS393P	MITJ	COUNTER	150- 36	207	74LS669	M74LS669P	MITJ	COUNTER	144- 70
98	74LS422	SN74LS422J	TII	CLOCK/MV	155- 73	208	74LS681	SN74LS681J	TII	ALU	168- 86
99	74LS422	SN74LS422N	TII	CLOCK/MV	155- 74	209	74LS681	SN74LS681N	TII	ALU	168- 87
100	74LS423	SN74LS423J	TII	CLOCK/MV	155- 75	210	74LS682	SN74LS682J	TII	MAGN COMP	165- 6
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3	74LS686	SN74LS686NT	TII	MAGN COMP	166-107	113	74S11	N74S11N	MULB	GATE	79- 75
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7	74LS687	SN74LS687NT	TII	MAGN COMP	166-110	117	74S11	N74S11N	VALG	GATE	79- 75
8	74LS688	SN74LS688J	TII	MAGN COMP	165- 2	118	74S15	DM74S15N	NSC	GATE	77- 87
9	74LS688	SN74LS688N	TII	MAGN COMP	165- 3	119	74S15	74S15PC	FSC	GATE	75-102
10	74LS689	SN74LS689J	TII	MAGN COMP	165- 12	120	74S15	SN74S15J	TII	GATE	81- 14
11	74LS689	SN74LS689N	TII	MAGN COMP	165- 13	121	74S15	SN74S15N	TII	GATE	81- 15
12	74LS690	SN74LS690J	TII	COUNTER	143- 82	122	74S15	N74S15F	MULB	GATE	80- 1
13	74LS690	SN74LS690N	TII	COUNTER	143- 83	123	74S15	N74S15F	PHIN	GATE	80- 1
14	74LS691	SN74LS691J	TII	COUNTER	150- 41	124	74S15	N74S15F	VALG	GATE	80- 1
15	74LS691	SN74LS691N	TII	COUNTER	150- 42	125	74S15	N74S15N	MULB	GATE	80- 2
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17	74LS692	SN74LS692N	TII	COUNTER	143- 85	127	74S15	N74S15N	VALG	GATE	80- 2
18	74LS693	SN74LS693J	TII	COUNTER	150- 43	128	74S20	DM74S20N	NSC	GATE	99- 33
19	74LS693	SN74LS693N	TII	COUNTER	150- 44	129	74S20	74S20DC	FSC	GATE	98- 90
20	74LS696	SN74LS696J	TII	COUNTER	143- 86	130	74S20	74S20PC	FSC	GATE	98- 91
21	74LS696	SN74LS696N	TII	COUNTER	143- 87	131	74S20	SN74S20J	TII	GATE	107- 94
22	74LS697	SN74LS697J	TII	COUNTER	150- 45	132	74S20	SN74S20N	TII	GATE	107- 95
23	74LS697	SN74LS697N	TII	COUNTER	150- 46	133	74S20	N74S20D	SIC	GATE	105- 15
24	74LS698	SN74LS698J	TII	COUNTER	143- 88	134	74S20	N74S20N	MULB	GATE	105- 16
25	74LS698	SN74LS698N	TII	COUNTER	143- 89	135	74S20	N74S20N	PHIN	GATE	105- 16
26	74LS699	SN74LS699J	TII	COUNTER	150- 47	136	74S20	N74S20N	SIC	GATE	105- 16
27	74LS699	SN74LS699N	TII	COUNTER	150- 48	137	74S20	N74S20N	VALG	GATE	105- 16
28	74LS716	SN74LS716J	MOTA	COUNTER	152- 4	138	74S22	DM74S22N	NSC	GATE	99- 34
29	74LS716	SN74LS716N	MOTA	COUNTER	152- 5	139	74S22	74S22DC	FSC	GATE	98- 92
30	74LS718	SN74LS718J	MOTA	COUNTER	152- 6	140	74S22	74S22PC	FSC	GATE	98- 93
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33	74S00	74S00DC	FSC	GATE	98- 86	143	74S22	N74S22F	MULB	GATE	105- 17
34	74S00	74S00PC	FSC	GATE	98- 87	144	74S22	N74S22F	PHIN	GATE	105- 17
35	74S00	SN74S00J	TII	GATE	107- 88	145	74S22	N74S22F	VALG	GATE	105- 17
36	74S00	SN74S00N	TII	GATE	107- 89	146	74S22	N74S22N	MULB	GATE	105- 18
37	74S00	N74S00D	SIC	GATE	105- 9	147	74S22	N74S22N	PHIN	GATE	105- 18
38	74S00	N74S00N	MULB	GATE	105- 10	148	74S22	N74S22N	VALG	GATE	105- 18
39	74S00	N74S00N	PHIN	GATE	105- 10	149	74S30	74S30DC	FSC	GATE	98- 94
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45	74S02	SN74S02N	TII	GATE	92- 93	155	74S32	SN74S32J	TII	GATE	88- 36
46	74S02	N74S02D	SIC	GATE	92- 26	156	74S32	SN74S32N	TII	GATE	88- 37
47	74S02	N74S02N	MULB	GATE	92- 27	157	74S32	N74S32D	SIC	GATE	88- 15
48	74S02	N74S02N	PHIN	GATE	92- 27	158	74S32	N74S32N	MULB	GATE	88- 16
49	74S02	N74S02N	RTCF	GATE	92- 27	159	74S32	N74S32N	PHIN	GATE	88- 16
50	74S02	N74S02N	SIC	GATE	92- 27	160	74S32	N74S32N	RTCF	GATE	88- 16
51	74S02	N74S02N	VALG	GATE	92- 27	161	74S32	N74S32N	SIC	GATE	88- 16
52	74S03	DM74S03N	NSC	GATE	99- 31	162	74S32	N74S32N	VALG	GATE	88- 16
53	74S03	74S03DC	FSC	GATE	98- 88	163	74S37	SN74S37J	TII	GATE	107-100
54	74S03	74S03PC	FSC	GATE	94- 26	164	74S37	SN74S37N	TII	GATE	107-101
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57	74S03	N74S03F	MULB	GATE	105- 11	167	74S40	DM74S40N	NSC	GATE	99- 35
58	74S03	N74S03F	PHIN	GATE	105- 11	168	74S40	SN74S40J	TII	GATE	107-104
59	74S03	N74S03F	RTCF	GATE	105- 11	169	74S40	SN74S40N	TII	GATE	107-105
60	74S03	N74S03F	SIC	GATE	105- 11	170	74S51	74S51DC	FSC	GATE	82- 74
61	74S03	N74S03F	VALG	GATE	105- 11	171	74S51	74S51PC	FSC	GATE	83- 1
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63	74S03	N74S03N	PHIN	GATE	105- 12	173	74S51	SN74S51N	TII	GATE	86-100
64	74S03	N74S03N	RTCF	GATE	105- 12	174	74S51	N74S51D	SIC	GATE	86- 30
65	74S03	N74S03N	VALG	GATE	105- 12	175	74S51	N74S51N	MULB	GATE	86- 31
66	74S04	N74S04F	SIC	GATE	115- 48	176	74S51	N74S51N	PHIN	GATE	86- 31
67	74S04	N74S04F	VALG	GATE	115- 48	177	74S51	N74S51N	RTCF	GATE	86- 31
68	74S04	N74S04N	SIC	GATE	115- 49	178	74S51	N74S51N	SIC	GATE	86- 31
69	74S04	N74S04N	VALG	GATE	115- 49	179	74S51	N74S51N	VALG	GATE	86- 31
70	74S05	N74S05F	SIC	GATE	115- 50	180	74S64	DM74S64N	NSC	GATE	83- 96
71	74S05	N74S05F	VALG	GATE	115- 50	181	74S64	74S64DC	FSC	GATE	83- 78
72	74S05	N74S05N	SIC	GATE	115- 51	182	74S64	74S64PC	FSC	GATE	83- 79
73	74S05	N74S05N	VALG	GATE	115- 51	183	74S64	SN74S64J	TII	GATE	86-101
74	74S08	74S08DC	FSC	GATE	76- 4	184	74S64	SN74S64N	TII	GATE	86-102
75	74S08	74S08PC	FSC	GATE	76- 5	185	74S64	N74S64F	MULB	GATE	82- 45
76	74S08	SN74S08J	TII	GATE	81- 8	186	74S64	N74S64F	PHIN	GATE	82- 45
77	74S08	SN74S08N	TII	GATE	81- 9	187	74S64	N74S64F	RTCF	GATE	82- 45
78	74S08	N74S08F	MULB	GATE	79- 70	188	74S64	N74S64F	VALG	GATE	82- 45
79	74S08	N74S08F	PHIN	GATE	79- 70	189	74S64	N74S64N	MULB	GATE	82- 46
80	74S08	N74S08F	RTCF	GATE	79- 70	190	74S64	N74S64N	PHIN	GATE	82- 46
81	74S08	N74S08F	SIC	GATE	79- 70	191	74S64	N74S64N	RTCF	GATE	82- 46
82	74S08	N74S08F	VALG	GATE	79- 70	192	74S64	N74S64N	SIC	GATE	82- 46
83	74S08	N74S08N	MULB	GATE	79- 71	193	74S64	N74S64N	VALG	GATE	82- 46
84	74S08	N74S08N	PHIN	GATE	79- 71	194	74S65	DM74S65N	NSC	GATE	83- 97
85	74S08	N74S08N	RTCF	GATE	79- 71	195	74S65	74S65PC	FSC	GATE	83- 80
86	74S08	N74S08N	SIC	GATE	79- 71	196	74S65	SN74S65J	TII	GATE	86-103
87	74S08	N74S08N	VALG	GATE	79- 71	197	74S65	SN74S65N	TII	GATE	86-104
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89	74S09	SN74S09N	TII	GATE	81- 11	199	74S65	N74S65F	PHIN	GATE	82- 47
90	74S09	N74S09F	MULB	GATE	79- 72	200	74S65	N74S65F	VALG	GATE	82- 47
91	74S09	N74S09F	PHIN	GATE	79- 72	201	74S65	N74S65N	MULB	GATE	82- 48
92	74S09	N74S09F	VALG	GATE	79- 72	202	74S65	N74S65N	PHIN	GATE	82- 48
93	74S09	N74S09N	MULB	GATE	79- 73	203	74S65	N74S65N	VALG	GATE	82- 48
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95	74S09	N74S09N	VALG	GATE	79- 73	205	74S74	74S74DC	FSC	FLIP FLOP	51- 43
96	74S10	DM74S10N	NSC	GATE	99- 32	206	74S74	74S74PC	FSC	FLIP FLOP	51- 44
97	74S10	74S10DC	FSC	GATE	98- 89	207	74S74	SN74S74J	TII	FLIP FLOP	53- 17
98	74S10	74S10PC	FSC	GATE	94- 27	208	74S74	SN74S74N	TII	FLIP FLOP	53- 18
99	74S10	SN74S10J	TII	GATE	107- 92	209	74S74	N74S74D	SIC	FLIP FLOP	54- 39
100	74S10	SN74S10N	TII	GATE	107- 93	210	74S74	N74S74N	MULB	FLIP FLOP	52- 54
101	74S10	N74S10D	SIC	GATE	105- 13	211	74S74	N74S74N	PHIN	FLIP FLOP	52- 54
102	74S10	N74S10N	MULB	GATE	105- 14	212	74S74	N74S74N	RTCF	FLIP FLOP	52- 54
103	74S10	N74S10N	PHIN	GATE	105- 14	213	74S74	N74S74N	SIC	FLIP FLOP	52- 54
104	74S10	N74S10N	RTCF	GATE	105- 14	214	74S74	N74S74N	VALG	FLIP FLOP	52- 54
105	74S10	N74S10N	SIC	GATE	105- 14	215	74S85	SN74S85J	TII	MAGN COMP	166- 11
106	74S10	N74S10N	VALG	GATE	105- 14	216	74S85	SN74S85N	TII	MAGN COMP	166- 12
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8	74S86	N74S86D	SIC	GATE	112- 49	118	74S168	N74S168N	SIC	COUNTER	148- 85
9	74S86	N74S86N	MULB	GATE	112- 50	119	74S169	SN74S169J	TII	COUNTER	150- 88
10	74S86	N74S86N	PHIN	GATE	112- 50	120	74S169	SN74S169N	TII	COUNTER	150- 89
11	74S86	N74S86N	RTCF	GATE	112- 50	121	74S169	N74S169F	MULB	COUNTER	144- 10
12	74S86	N74S86N	SIC	GATE	112- 50	122	74S169	N74S169F	SIC	COUNTER	144- 10
13	74S86	N74S86N	VALG	GATE	112- 50	123	74S169	N74S169N	MULB	COUNTER	148- 86
14	74S86	N74S86W	MULB	GATE	113- 39	124	74S169	N74S169N	SIC	COUNTER	148- 86
15	74S86	N74S86W	PHIN	GATE	113- 39	125	74S174	DM74S174N	NSC	FLIP FLOP	53- 59
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17	74S109	74S109PC	FSC	FLIP FLOP	42- 89	127	74S174	SN74S174N	AMD	FLIP FLOP	53- 20
18	74S112	DM74S112N	NSC	FLIP FLOP	42-105	128	74S174	N74S174F	SIC	FLIP FLOP	54- 2
19	74S112	74S112DC	FSC	FLIP FLOP	42- 90	129	74S174	N74S174F	VALG	FLIP FLOP	54- 2
20	74S112	74S112PC	FSC	FLIP FLOP	42- 91	130	74S174	N74S174N	SIC	FLIP FLOP	54- 3
21	74S112	SN74S112J	TII	FLIP FLOP	46-101	131	74S174	N74S174N	VALG	FLIP FLOP	54- 3
22	74S112	SN74S112N	TII	FLIP FLOP	46-102	132	74S175	DM74S175N	NSC	FLIP FLOP	53- 60
23	74S112	N74S112D	SIC	FLIP FLOP	47- 48	133	74S175	74S175DC	FSC	FLIP FLOP	51- 45
24	74S112	N74S112N	MULB	FLIP FLOP	45- 75	134	74S175	74S175PC	FSC	FLIP FLOP	51- 46
25	74S112	N74S112N	PHIN	FLIP FLOP	45- 75	135	74S175	SN74S175J	AMD	FLIP FLOP	53- 21
26	74S112	N74S112N	RTCF	FLIP FLOP	45- 75	136	74S175	SN74S175N	AMD	FLIP FLOP	53- 22
27	74S112	N74S112N	SIC	FLIP FLOP	45- 75	137	74S175	N74S175F	SIC	FLIP FLOP	54- 4
28	74S112	N74S112N	VALG	FLIP FLOP	45- 75	138	74S175	N74S175F	VALG	FLIP FLOP	54- 4
29	74S113	DM74S113N	NSC	FLIP FLOP	42-106	139	74S175	N74S175N	SIC	FLIP FLOP	54- 5
30	74S113	74S113PC	FSC	FLIP FLOP	42- 92	140	74S175	N74S175N	VALG	FLIP FLOP	54- 5
31	74S113	SN74S113J	TII	FLIP FLOP	46-103	141	74S181	DM74S181N	NSC	ALU	169- 79
32	74S113	SN74S113N	TII	FLIP FLOP	46-104	142	74S181	74S181DC	FSC	ALU	168- 99
33	74S113	N74S113F	MULB	FLIP FLOP	45- 76	143	74S181	74S181PC	FSC	ALU	168-100
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35	74S113	N74S113F	RTCF	FLIP FLOP	45- 76	145	74S181	SN74S181J	TII	ALU	169- 15
36	74S113	N74S113F	VALG	FLIP FLOP	45- 76	146	74S181	SN74S181N	AMD	ALU	169- 16
37	74S113	N74S113N	MULB	FLIP FLOP	45- 77	147	74S181	SN74S181N	TII	ALU	169- 16
38	74S113	N74S113N	PHIN	FLIP FLOP	45- 77	148	74S181	N74S181F	MULB	ALU	169- 10
39	74S113	N74S113N	RTCF	FLIP FLOP	45- 77	149	74S181	N74S181F	PHIN	ALU	169- 10
40	74S113	N74S113N	SIC	FLIP FLOP	45- 77	150	74S181	N74S181F	RTCF	ALU	169- 10
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46	74S114	N74S114F	PHIN	FLIP FLOP	45- 78	156	74S181	N74S181N	VALG	ALU	169- 11
47	74S114	N74S114F	VALG	FLIP FLOP	45- 78	157	74S181	N74S181W	MULB	ALU	168-105
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49	74S114	N74S114N	PHIN	FLIP FLOP	45- 79	159	74S181	N74S181W	SIC	ALU	168-105
50	74S114	N74S114N	VALG	FLIP FLOP	45- 79	160	74S182	DM74S182N	NSC	CARRY GEN	170- 44
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52	74S124	SN74S124N	TII	CLOCK/MV	155- 57	162	74S182	74S182PC	FSC	CARRY GEN	170- 61
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54	74S133	74S133PC	FSC	GATE	98- 97	164	74S182	SN74S182J	TII	CARRY GEN	170- 68
55	74S133	SN74S133J	TII	GATE	107-106	165	74S182	SN74S182J16	MMI	CARRY GEN	170- 55
56	74S133	SN74S133N	TII	GATE	107-107	166	74S182	SN74S182N	TII	CARRY GEN	170- 69
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59	74S133	N74S133F	VALG	GATE	105- 19	169	74S182	N74S182F	VALG	CARRY GEN	170- 62
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62	74S133	N74S133N	SIC	GATE	105- 20	172	74S182	N74S182N	SIC	CARRY GEN	170- 63
63	74S133	N74S133N	VALG	GATE	105- 20	173	74S182	N74S182N	VALG	CARRY GEN	170- 63
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70	74S134	N74S134F	VALG	GATE	105- 22	180	74S197	SN74S197J	TII	COUNTER	148- 66
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56		75L52		DM75L52N	NSC	COUNTER	144- 18	166		82S62		N82S62F		VALG	ADDER	162- 13
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60		75L54		DM75L54N	NSC	COUNTER	150- 92	170		82S62		N82S62N		VALG	ADDER	162- 14
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60	121		RF121CJ		RTN	FLIP FLOP	48- 62	170	155		K155IP3		USSR	ALU	168- 43
61	121		RF121CK		RTN	FLIP FLOP	48- 63	171	155		K155LA1		USSR	GATE	108- 77
62	121		RF121DC		RTN	FLIP FLOP	48- 64	172	155		K155LA2		USSR	GATE	108- 78
63	121		FZJ121		SIEG	FLIP FLOP	38- 36	173	155		K155LA3		USSR	GATE	108- 79
64	121		FZJ121		VALG	FLIP FLOP	38- 36	174	155		K155LA6		USSR	GATE	108- 80
65	121		RG121CJ		RTN	GATE	109- 51	175	155		K155LA7		USSR	GATE	93- 79
66	121		RG121CK		RTN	GATE	109- 52	176	155		K155LA8		USSR	GATE	93- 80
67	121		RG121DC		RTN	GATE	109- 53	177	155		K155LA11		USSR	GATE	93- 81
68	121		SNF121W		TIJ	FLIP FLOP	48- 4	178	155		K155LA12		USSR	GATE	108- 81
69	122		RF122CJ		RTN	FLIP FLOP	48- 65	179	155		K155LD1		USSR	GATE	89- 74
70	122		RF122CK		RTN	FLIP FLOP	48- 66	180	155		K155LD3		USSR	GATE	89- 75
71	122		RF122DC		RTN	FLIP FLOP	48- 67	181	155		K155LE1		USSR	GATE	93- 34
72	122		RG122CJ		RTN	GATE	109- 30	182	155		K155LE2		USSR	GATE	93- 68
73	122		RG122CK		RTN	GATE	109- 31	183	155		K155LE3		USSR	GATE	93- 35
74	122		RG122DC		RTN	GATE	109- 32	184	155		K155LE6		USSR	GATE	93- 67
75	122		H122D1		SGAI	GATE	69- 78	185	155		K155L1		USSR	GATE	81- 26
76	122		H122D2		SGAI	GATE	69- 79	186	155		K155L5		USSR	GATE	81- 72
77	122		H122D6		SGAI	GATE	69- 80	187	155		K155L11		USSR	GATE	88- 48
78	122		LM122F		NSC	TIME DELAY	124- 95	188	155		K155LN1		USSR	GATE	115- 73
79	122		LM122H		NSC	TIME DELAY	124- 96	189	155		K155LN2		USSR	GATE	115- 23
80	123		RF123CJ		RTN	FLIP FLOP	48- 68	190	155		K155LN3		USSR	GATE	115- 81
81	123		RF123CK		RTN	FLIP FLOP	48- 69	191	155		K155LN4		USSR	GATE	87- 31
82	123		RF123DC		RTN	FLIP FLOP	48- 70	192	155		K155LP7		USSR	GATE	108- 82
83	123		RG123CJ		RTN	GATE	109- 33	193	155		K155LR1		USSR	GATE	82- 67
84	123		RG123CK		RTN	GATE	109- 34	194	155		K155LR3		USSR	GATE	82- 68
85	123		RG123DC		RTN	GATE	109- 35	195	155		K155LR4		USSR	GATE	82- 69
86	124		H124D1		SGAI	GATE	69- 81	196	155		K155TM2		USSR	FLIP FLOP	54- 47
87	124		H124D2		SGAI	GATE	69- 82	197	155		K155TM5		USSR	FLIP FLOP	54- 48
88	124		H124D6		SGAI	GATE	69- 83	198	155		K155TM7		USSR	FLIP FLOP	54- 46
89	125		FZH125		SIEG	GATE	69- 69	199	155		K155TV1		USSR	FLIP FLOP	47- 53
90	125		FZJ125		SIEG	FLIP FLOP	38- 37	200	156		H156D1		SGAI	COUNTER	138- 77
91	130		RF130CJ		RTN	FLIP FLOP	48- 71	201	156		H156D2		SGAI	COUNTER	138- 78
92	130		RF130CK		RTN	FLIP FLOP	48- 72	202	156		H156D6		SGAI	COUNTER	138- 79
93	130		RF130DC		RTN	FLIP FLOP	48- 73	203	157		H157D1		SGAI	COUNTER	138- 64
94	131		FCH131		PHIN	GATE	67- 96	204	157		H157D2		SGAI	COUNTER	138- 65
95	131		FCJ131		PHIN	FLIP FLOP	34- 17	205	157		H157D6		SGAI	COUNTER	138- 66
96	131		FJH131-7400		PHIN	GATE	99- 78	206	158		H158D1		SGAI	DECODER	117- 59
97	131		FJJ131-7474		PHIN	FLIP FLOP	51- 69	207	158		H158D2		SGAI	DECODER	117- 60
98	131		FZH131		SIEG	GATE	69- 70	208	158		H158D6				

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1	171	FZH171	SIEG	GATE	55-24	111	213	RF213CJ	RTN	FLIP FLOP	48-104
2	171	FZH171	VALG	GATE	55-24	112	213	RF213CK	RTN	FLIP FLOP	48-105
3	171	RG171CJ	RTN	GATE	114-58	113	213	RF213DC	RTN	FLIP FLOP	48-106
4	171	RG171CK	RTN	GATE	114-59	114	213	RG213CJ	RTN	GATE	89-5
5	171	RG171DC	RTN	GATE	114-60	115	213	RG213CK	RTN	GATE	89-6
6	172	RG172CJ	RTN	GATE	114-61	116	213	RG213DC	RTN	GATE	89-7
7	172	RG172CK	RTN	GATE	114-62	117	215	FZH215B	SIEG	GATE	69-98
8	173	RG173CJ	RTN	GATE	114-63	118	219	ZN219	FERB	GATE	66-91
9	173	RG173CK	RTN	GATE	114-64	119	219	ZN219E	FERB	GATE	66-92
10	173	RG173DC	RTN	GATE	114-65	120	220	ZN220	FERB	GATE	66-93
11	173	RG173DC	RTN	GATE	114-66	121	220	ZN220E	FERB	GATE	66-94
12	175	FZH175	SIEG	GATE	55-25	122	220	HXA220-402	RTCF	MAGN COMP	165-76
13	175	LM175D	NSC	CLOCK/MV	154-15	123	220	RG220CJ	RTN	GATE	109-108
14	176	K176ID1	USSR	DECODER	117-77	124	220	RG220CK	RTN	GATE	109-109
15	176	K176IE1	USSR	COUNTER	139-56	125	220	RG220DC	RTN	GATE	109-110
16	176	K176IE2	USSR	COUNTER	139-51	126	221	ZN221	FERB	FLIP FLOP	37-34
17	176	K176IE3	USSR	COUNTER	139-52	127	221	ZN221E	FERB	FLIP FLOP	37-35
18	176	K176IE4	USSR	COUNTER	139-50	128	221	FCH221	PHIN	GATE	67-103
19	176	K176IE8	USSR	COUNTER	139-57	129	221	FCJ221	PHIN	FLIP FLOP	38-110
20	176	K176LA7	USSR	GATE	75-3	130	221	FJH221-7402	PHIN	GATE	91-10
21	176	K176LA8	USSR	GATE	75-4	131	221	RG221CJ	RTN	GATE	110-1
22	176	K176LA9	USSR	GATE	75-5	132	221	RG221CK	RTN	GATE	110-2
23	176	K176LE5	USSR	GATE	74-105	133	221	RG221DC	RTN	GATE	110-3
24	176	K176LE6	USSR	GATE	74-106	134	222	ZN222	FERB	FLIP FLOP	37-36
25	176	K176LE10	USSR	GATE	75-1	135	222	ZN222E	FERB	FLIP FLOP	37-37
26	176	K176LI1	USSR	GATE	74-102	136	222	RG222CJ	RTN	GATE	110-4
27	176	K176LP2	USSR	GATE	115-85	137	222	RG222CK	RTN	GATE	110-5
28	176	K176LP4	USSR	GATE	115-84	138	222	RG222DC	RTN	GATE	110-6
29	176	K176LP11	USSR	GATE	74-104	139	222	LM222H	NSC	TIME DELAY	124-97
30	176	K176LP12	USSR	GATE	74-103	140	222	H222B1	SGAI	GATE	69-84
31	176	K176LS1	USSR	GATE	74-101	141	223	RG223CJ	RTN	GATE	110-7
32	176	K176TM2	USSR	FLIP FLOP	39-95	142	223	RG223CK	RTN	GATE	110-8
33	176	K176TV1	USSR	FLIP FLOP	39-94	143	223	RG223DC	RTN	GATE	110-9
34	180	RG180CJ	RTN	GATE	81-46	144	224	ZN224	FERB	GATE	67-6
35	180	RG180CK	RTN	GATE	81-47	145	224	ZN224E	FERB	GATE	67-4
36	180	RG180DC	RTN	GATE	81-48	146	224	H224B1	SGAI	GATE	69-85
37	181	FCH181	PHIN	GATE	67-101	147	227	H227B1	SGAI	CLOCK/MV	154-69
38	181	FJH181-7454	PHIN	GATE	82-27	148	229	ZN229	FERB	GATE	67-2
39	181	RG181CJ	RTN	GATE	81-49	149	229	ZN229E	FERB	GATE	67-5
40	181	RG181CK	RTN	GATE	81-50	150	230	ZN230	FERB	GATE	67-7
41	181	RG181DC	RTN	GATE	81-51	151	230	ZN230E	FERB	GATE	67-8
42	182	RG182CJ	RTN	GATE	81-52	152	230	RG230CJ	RTN	GATE	89-8
43	182	RG182CK	RTN	GATE	81-53	153	230	RG230CK	RTN	GATE	89-9
44	182	RG182DC	RTN	GATE	81-54	154	230	RG230DC	RTN	GATE	89-10
45	183	RG183CJ	RTN	GATE	81-55	155	231	FCH231	PHIN	GATE	70-26
46	183	RG183CK	RTN	GATE	81-56	156	231	FJH231-7401	PHIN	GATE	99-80
47	183	RG183DC	RTN	GATE	81-57	157	231	FZH231	SIEG	GATE	55-27
48	191	FCH191	PHIN	GATE	67-102	158	231	FZH231	VALG	GATE	55-27
49	191	FCJ191	PHIN	FLIP FLOP	34-18	159	231	RG231CJ	RTN	GATE	89-11
50	191	FJJ191-7476	PHIN	FLIP FLOP	43-11	160	231	RG231CK	RTN	GATE	89-12
51	191	FZH191	SIEG	GATE	69-74	161	231	RG231DC	RTN	GATE	89-13
52	191	FZH191	VALG	GATE	69-74	162	232	ZN232	FERB	GATE	67-9
53	195	FZH195	SIEG	GATE	69-75	163	232	ZN232E	FERB	GATE	67-10
54	200	RF200CJ	RTN	FLIP FLOP	48-83	164	232	RG232CJ	RTN	GATE	89-14
55	200	RF200CK	RTN	FLIP FLOP	48-84	165	232	RG232CK	RTN	GATE	89-15
56	200	RF200DC	RTN	FLIP FLOP	48-85	166	232	RG232DC	RTN	GATE	89-16
57	200	RG200CJ	RTN	GATE	109-36	167	233	ZN233	FERB	GATE	66-95
58	200	RG200CK	RTN	GATE	109-37	168	233	ZN233E	FERB	GATE	66-96
59	200	RG200DC	RTN	GATE	109-38	169	233	RG233CJ	RTN	GATE	89-17
60	201	FCJ201	PHIN	FLIP FLOP	37-110	170	233	RG233CK	RTN	GATE	89-18
61	201	FZH201	SIEG	GATE	69-76	171	233	RG233DC	RTN	GATE	89-19
62	201	FZH201	VALG	GATE	69-76	172	235	FZH235	SIEG	GATE	55-28
63	201	RF201CJ	RTN	FLIP FLOP	48-86	173	240	RG240CJ	RTN	GATE	110-10
64	201	RF201CK	RTN	FLIP FLOP	48-87	174	240	RG240CK	RTN	GATE	110-11
65	201	RF201DC	RTN	FLIP FLOP	48-88	175	240	RG240DC	RTN	GATE	110-12
66	201	RG201CJ	RTN	GATE	109-39	176	241	RG241CJ	RTN	GATE	110-13
67	201	RG201CK	RTN	GATE	109-40	177	241	RG241CK	RTN	GATE	110-14
68	201	RG201DC	RTN	GATE	109-41	178	241	RG241DC	RTN	GATE	110-15
69	202	RF202CJ	RTN	FLIP FLOP	48-89	179	242	RG242CJ	RTN	GATE	110-16
70	202	RF202CK	RTN	FLIP FLOP	48-90	180	242	RG242CK	RTN	GATE	110-17
71	202	RF202DC	RTN	FLIP FLOP	48-91	181	242	RG242DC	RTN	GATE	110-18
72	202	RG202CJ	RTN	GATE	109-24	182	243	RG243CJ	RTN	GATE	110-19
73	202	RG202CK	RTN	GATE	109-25	183	243	RG243CK	RTN	GATE	110-20
74	202	RG202DC	RTN	GATE	109-26	184	243	RG243DC	RTN	GATE	110-21
75	202	H202B1	SGAI	GATE	70-60	185	244	ZN244	FERB	GATE	67-11
76	203	RF203CJ	RTN	FLIP FLOP	48-92	186	244	ZN244E	FERB	GATE	67-12
77	203	RF203CK	RTN	FLIP FLOP	48-93	187	246	ZN246	FERB	GATE	67-13
78	203	RF203DC	RTN	FLIP FLOP	48-94	188	246	ZN246E	FERB	GATE	67-14
79	203	RG203CJ	RTN	GATE	109-27	189	248	ZN248	FERB	FLIP FLOP	37-38
80	203	RG203CK	RTN	GATE	109-28	190	248	ZN248E	FERB	FLIP FLOP	37-39
81	203	RG203DC	RTN	GATE	109-29	191	250	SAJ250A	PHIN	CLOCK/MV	154-5
82	203	H203B1	SGAI	GATE	70-61	192	250	SAJ250B	PHIN	CLOCK/MV	154-6
83	204	H204B1	SGAI	GATE	70-62	193	250	RF250CJ	RTN	FLIP FLOP	47-108
84	205	FZH205	SIEG	GATE	69-77	194	250	RF250CK	RTN	FLIP FLOP	47-109
85	205	H205B1	SGAI	GATE	66-85	195	250	RF250DC	RTN	FLIP FLOP	47-110
86	209	H209B1	SGAI	GATE	66-78	196	250	RG250CJ	RTN	GATE	89-20
87	210	RF210CJ	RTN	FLIP FLOP	48-95	197	250	RG250CK	RTN	GATE	89-21
88	210	RF210CK	RTN	FLIP FLOP	48-96	198	250	RG250DC	RTN	GATE	89-22
89	210	RF210DC	RTN	FLIP FLOP	48-97	199	251	FJJ251-7492	PHIN	COUNTER	144-91
90	210	RG210CJ	RTN	GATE	88-98	200	251	FZH251	SIEG	GATE	66-74
91	210	RG210CK	RTN	GATE	88-99	201	251	FZH251	VALG	GATE	66-74
92	210	RG210DC	RTN	GATE	88-100	202	251	RF251CJ	RTN	FLIP FLOP	48-1
93	210	H210B1	SGAI	FLIP FLOP	38-51	203	251	RF251CK	RTN	FLIP FLOP	48-2
94	211	FCJ211	PHIN	FLIP FLOP	34-19	204	251	RF251DC	RTN	FLIP FLOP	48-3
95	211	FJJ211-7493	PHIN	COUNTER	144-90	205	251	RG251CJ	RTN	GATE	89-23
96	211	FZH211	SIEG	GATE	55-26	206	251	RG251CK	RTN	GATE	89-24
97	211	FZH211	VALG	GATE	55-26	207	251	RG251DC	RTN	GATE	89-25
98	211	RF211CJ	RTN	FLIP FLOP	48-98	208	252	RF252CJ	RTN	FLIP FLOP	47-102
99	211	RF211CK	RTN	FLIP FLOP	48-99	209	252	RF252CK	RTN	FLIP FLOP	47-103
100	211	RF211DC	RTN	FLIP FLOP	48-100	210	252	RF252DC	RTN	FLIP FLOP	47-104
101	211	RG211CJ	RTN	GATE	88-101	211	252	RG252CJ	RTN	GATE	89-26
102	211	RG211CK	RTN	GATE	88-102	212	252	RG252CK	RTN	GATE	89-27
103	211	RG211DC	RTN	GATE	89-1	213	252	RG252DC	RTN	GATE	89-28
104	211	H211B1	SGAI	FLIP FLOP	38-52	214	253	RF253CJ	RTN	FLIP FLOP	47-105
105	212	RF212CJ	RTN	FLIP FLOP	48-101	215	253	RF253CK	RTN	FLIP FLOP	47-106
106	212	RF212CK	RTN	FLIP FLOP	48-102	216	253	RF253DC	RTN	FLIP FLOP	47-107
107	212	RF212DC	RTN	FLIP FLOP	48-103	217	253	RG253CJ	RTN	GATE	89-29
108	212	RG212CJ	RTN	GATE	89-2	218	253	RG253CK	RTN	GATE	89-30
109	212	RG212CK	RTN	GATE	89-3	219	253	RG253DC	RTN	GATE	89-31
110	212	RG212DC	RTN	GATE	89-4	220	255	FZH255B	SIEG	GATE	66-79

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2	257	H257B1	SGAI	COUNTER	138- 67	112	302	E302F7	SGAI	GATE	69-110
3	258	H258B1	SGAI	DECODER	117- 62	113	302	302AL	TSC	GATE	74- 84
4	260	RF260CJ	RTN	FLIP FLOP	48-107	114	302	302CL	TSC	GATE	74- 85
5	260	RF260CK	RTN	FLIP FLOP	48-108	115	302	LCE302	FERB	GATE	75- 36
6	260	RF260DC	RTN	FLIP FLOP	48-109	116	302	RG302CJ	RTN	GATE	89- 50
7	260	RG260CJ	RTN	GATE	110- 22	117	302	RG302CK	RTN	GATE	89- 51
8	260	RG260CK	RTN	GATE	110- 23	118	302	RG302DC	RTN	GATE	89- 52
9	260	RG260DC	RTN	GATE	110- 24	119	302	SP302A	MULB	GATE	81- 70
10	261	FJH261-7442	PHIN	DECODER	119- 54	120	302	E303D2	PHIN	GATE	81- 70
11	261	FJH261-74107	PHIN	FLIP FLOP	43- 12	121	303	E303D7	SGAI	GATE	70- 1
12	261	FZH261	SIEG	GATE	69- 99	122	303	E303F2	SGAI	GATE	70- 2
13	261	FZH261	VALG	GATE	69- 99	123	303	E303F7	SGAI	GATE	70- 3
14	261	RF261CJ	RTN	FLIP FLOP	48-110	124	303	303AL	TSC	GATE	70- 4
15	261	RF261CK	RTN	FLIP FLOP	49- 1	125	303	303CL	TSC	GATE	74- 86
16	261	RF261DC	RTN	FLIP FLOP	49- 2	126	303	LCE303	TSC	GATE	74- 87
17	261	RG261CJ	RTN	GATE	110- 25	127	303	RG303CJ	FERB	GATE	75- 52
18	261	RG261CK	RTN	GATE	110- 26	128	303	RG303CK	RTN	GATE	89- 53
19	261	RG261DC	RTN	GATE	110- 27	129	303	RG303DC	RTN	GATE	89- 54
20	262	ZN262	FERB	GATE	67- 15	130	303	E304D2	SGAI	GATE	89- 55
21	262	ZN262E	FERB	GATE	67- 16	131	304	E304D7	SGAI	GATE	70- 5
22	262	RF262CJ	RTN	FLIP FLOP	49- 3	132	304	E304F2	SGAI	GATE	70- 6
23	262	RF262CK	RTN	FLIP FLOP	49- 4	133	304	E304F7	SGAI	GATE	70- 7
24	262	RF262DC	RTN	FLIP FLOP	49- 5	134	304	304AL	TSC	GATE	70- 8
25	262	RG262CJ	RTN	GATE	110- 28	135	304	304CL	TSC	GATE	74- 88
26	262	RG262CK	RTN	GATE	110- 29	136	304	SP304A	TSC	GATE	74- 89
27	262	RG262DC	RTN	GATE	110- 30	137	304	E305D2	MULB	GATE	81- 71
28	263	RF263CJ	RTN	FLIP FLOP	49- 6	138	304	E305D7	PHIN	GATE	81- 71
29	263	RF263CK	RTN	FLIP FLOP	49- 7	139	305	E305F2	SGAI	GATE	70- 9
30	263	RF263DC	RTN	FLIP FLOP	49- 8	140	305	E305F7	SGAI	GATE	70- 10
31	263	RG263CJ	RTN	GATE	110- 31	141	305	FZH305	SGAI	GATE	70- 11
32	263	RG263CK	RTN	GATE	110- 32	142	305	LCE305	SGAI	GATE	70- 12
33	263	RG263DC	RTN	GATE	110- 33	143	305	SP305A	SIEG	GATE	67- 56
34	265	FZH265B	SIEG	GATE	69-100	144	305	SP305A	FERB	CLOCK/MV	154- 88
35	270	RG270CJ	RTN	GATE	89- 32	145	305	SP305A	PHIN	GATE	66- 66
36	270	RG270CK	RTN	GATE	89- 33	146	305	E306D2	SGAI	GATE	66- 66
37	270	RG270DC	RTN	GATE	89- 34	147	306	E306D7	SGAI	GATE	70- 13
38	271	FZH271	SIEG	GATE	70- 66	148	306	E306F2	SGAI	GATE	70- 14
39	271	FZH271	VALG	GATE	70- 66	149	306	E306F7	SGAI	GATE	70- 15
40	271	RG271CJ	RTN	GATE	89- 35	150	306	306AL	SGAI	GATE	70- 16
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42	271	RG271DC	RTN	GATE	89- 37	152	306	LCE306	TSC	GATE	93- 63
43	272	RG272CJ	RTN	GATE	89- 38	153	306	SP306A	FERB	TIME DELAY	123- 48
44	272	RG272CK	RTN	GATE	89- 39	154	306	SP306A	MULB	GATE	66- 67
45	272	RG272DC	RTN	GATE	89- 40	155	306	307AL	PHIN	GATE	66- 67
46	273	RG273CJ	RTN	GATE	89- 41	156	307	307CL	TSC	GATE	93- 64
47	273	RG273CK	RTN	GATE	89- 42	157	307	LCE308	TSC	GATE	67- 52
48	273	RG273DC	RTN	GATE	89- 43	158	308	LCE309	FERB	GATE	75- 28
49	275	FZH275	SIEG	GATE	70- 67	159	309	LCE310	FERB	GATE	75- 30
50	275	LM275D	NSC	CLOCK/MV	154- 16	160	310	RG310CJ	RTN	GATE	75- 37
51	280	RG280CJ	RTN	GATE	81- 58	161	310	RG310DC	RTN	GATE	89- 56
52	280	RG280CK	RTN	GATE	81- 59	162	310	311AL	RTN	GATE	89- 57
53	280	RG280DC	RTN	GATE	81- 60	163	310	311CL	RTN	GATE	89- 58
54	281	FZH281	SIEG	GATE	67- 53	164	311	FJH311-7401	TSC	FLIP FLOP	38- 34
55	281	FZH281	VALG	GATE	67- 53	165	311	FJH311-7401S1	TSC	FLIP FLOP	38- 35
56	281	RG281CJ	RTN	GATE	81- 61	166	311	RG311CJ	PHIN	GATE	99- 83
57	281	RG281CK	RTN	GATE	81- 62	167	311	RG311CK	PHIN	GATE	99- 84
58	281	RG281DC	RTN	GATE	81- 63	168	311	RG311DC	RTN	GATE	89- 59
59	282	RG282CJ	RTN	GATE	81- 64	169	311	312AJ	RTN	GATE	89- 60
60	282	RG282CK	RTN	GATE	81- 65	170	311	312AL	RTN	GATE	89- 61
61	282	RG282DC	RTN	GATE	81- 66	171	312	312CJ	TSC	FLIP FLOP	38- 26
62	283	RG283CJ	RTN	GATE	81- 67	172	312	312CL	TSC	FLIP FLOP	38- 27
63	283	RG283CK	RTN	GATE	81- 68	173	312	RG312CJ	TSC	FLIP FLOP	38- 28
64	283	RG283DC	RTN	GATE	81- 69	174	312	RG312CK	TSC	FLIP FLOP	38- 29
65	285	FZH285B	SIEG	GATE	67- 54	175	312	RG312DC	RTN	GATE	89- 62
66	290	RG290CJ	RTN	GATE	114- 67	176	312	313AJ	RTN	GATE	89- 63
67	290	RG290CK	RTN	GATE	114- 68	177	312	313AL	RTN	GATE	89- 64
68	290	RG290DC	RTN	GATE	114- 69	178	313	313CJ	TSC	FLIP FLOP	38- 30
69	291	FJH291-7403	PHIN	GATE	99- 81	179	313	313CL	TSC	FLIP FLOP	38- 31
70	291	FZH291	SIEG	GATE	66-110	180	313	RG313CJ	TSC	FLIP FLOP	38- 32
71	291	FZH291	VALG	GATE	66-110	181	313	RG313CK	TSC	FLIP FLOP	38- 33
72	291	RG291CJ	RTN	GATE	114- 70	182	313	RG313DC	RTN	GATE	89- 65
73	291	RG291CK	RTN	GATE	114- 71	183	313	SP314AA	RTN	GATE	89- 66
74	291	RG291DC	RTN	GATE	114- 72	184	313	SP314AA	RTN	GATE	89- 67
75	292	RG292CJ	RTN	GATE	114- 73	185	314	SP317A	MULB	GATE	67- 47
76	292	RG292CK	RTN	GATE	114- 74	186	314	SP317A	PHIN	GATE	67- 48
77	292	RG292DC	RTN	GATE	114- 75	187	317	ZN319	MULB	GATE	67- 48
78	293	RG293CJ	RTN	GATE	114- 76	188	317	ZN319E	PHIN	GATE	67- 48
79	293	RG293CK	RTN	GATE	114- 77	189	319	XR320P#1	FERB	GATE	66- 97
80	293	RG293DC	RTN	GATE	114- 78	190	319	XR320P#2	FERB	GATE	66- 98
81	294	ZN294E	FERB	FLIP FLOP	37- 40	191	320	ZN320	EXR	TIME DELAY	127- 28
82	295	FZH295B	SIEG	GATE	67- 1	192	320	ZN320E	EXR	CLOCK/MV	154- 91
83	297	ZN297E	FERB	FLIP FLOP	37- 41	193	320	RG320CJ	FERB	GATE	66- 99
84	300	E300D2	SGAI	FLIP FLOP	38-105	194	320	RG320CK	FERB	GATE	66-100
85	300	E300D7	SGAI	FLIP FLOP	38-106	195	320	RG320DC	RTN	GATE	109- 54
86	300	E300F2	SGAI	FLIP FLOP	38-107	196	320	ZN321	RTN	GATE	109- 55
87	300	E300F7	SGAI	FLIP FLOP	38-108	197	320	ZN321E	RTN	GATE	109- 56
88	300	RED300/360	LSC	FREQ DIVID	156- 72	198	321	321AJ	FERB	FLIP FLOP	37- 42
89	300	RG300CJ	RTN	GATE	89- 44	199	321	321AL	FERB	FLIP FLOP	37- 43
90	300	RG300CK	RTN	GATE	89- 45	200	321	321CJ	TSC	GATE	69- 46
91	300	RG300DC	RTN	GATE	89- 46	201	321	321CL	TSC	GATE	69- 47
92	300	SP300A	MULB	GATE	70- 85	202	321	RG321CJ	TSC	GATE	69- 47
93	300	SP300A	PHIN	GATE	70- 85	203	321	RG321CK	TSC	GATE	69- 48
94	301	E301D2	SGAI	GATE	69-103	204	321	RG321DC	RTN	GATE	109- 57
95	301	E301D7	SGAI	GATE	69-104	205	321	SP321A	RTN	GATE	109- 58
96	301	E301F2	SGAI	GATE	69-105	206	321	ZN322	RTN	GATE	109- 59
97	301	E301F7	SGAI	GATE	69-106	207	321	322AJ	MULB	FLIP FLOP	38- 24
98	301	301AL	TSC	GATE	74- 82	208	321	322AL	PHIN	FLIP FLOP	38- 24
99	301	301CL	TSC	GATE	74- 83	209	322	322CJ	FERB	FLIP FLOP	37- 44
100	301	FCH301	PHIN	DECODER	116- 8	210	322	322CL	FERB	FLIP FLOP	37- 45
101	301	FJH301-7426	PHIN	GATE	99- 82	211	322	LM322H	TSC	GATE	69- 48
102	301	FZH301	SIEG	GATE	67- 55	212	322	LM322N	TSC	GATE	69- 50
103	301	LCE301	FERB	FLIP FLOP	39- 99	213	322	RG322CJ	TSC	GATE	69- 88
104	301	RG301CJ	RTN	GATE	89- 47	214	322	RG322CK	TSC	GATE	69- 88
105	301	RG301CK	RTN	GATE	89- 48	215	322	RG322DC	TSC	GATE	69- 89
106	301	RG301DC	RTN	GATE	89- 49	216	322	SP322B	NSC	TIME DELAY	124- 98
107	301	SP301A	MULB	GATE	70- 92	217	322	LM322N	NSC	TIME DELAY	122- 2
108	301	SP301A	PHIN	GATE	70- 92	218	322	RG322CJ	RTN	GATE	109- 42
109	302	E302D2	SGAI	GATE	69-107	219	322	RG322CK	RTN	GATE	109- 43
110	302	E302D7	SGAI	GATE	69-108	220	322	RG322DC	RTN	GATE	109- 44
								SP322B	MULB	FLIP FLOP	38- 23

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IN ORDER OF: (1)GENERIC NO. (2)MFR TYPE NO.

LINE No.	1 GENERIC NO.	2 MANUFACTURER TYPE NO.	MFR. CODE	PRODUCT CLASS	PAGE & LINE	LINE No.	1 GENERIC NO.	2 MANUFACTURER TYPE NO.	MFR. CODE	PRODUCT CLASS	PAGE & LINE
1	322	SP322B	PHIN	FLIP FLOP	38- 23	111	375	LM375D	NSC	CLOCK/MV	154- 17
2	323	323AJ	TSC	GATE	69- 52	112	375	LM375N	NSC	CLOCK/MV	154- 18
3	323	323AL	TSC	GATE	69- 53	113	375	SP375A	MULB	GATE	89- 70
4	323	323CJ	TSC	GATE	69- 54	114	375	SP375A	PHIN	GATE	89- 70
5	323	323CL	TSC	GATE	69- 55	115	377	SP377A	MULB	GATE	69- 43
6	323	RG323CJ	RTN	GATE	109- 45	116	377	SP377A	PHIN	GATE	69- 43
7	323	RG323CK	RTN	GATE	109- 46	117	380	SP380A	MULB	GATE	67- 50
8	323	RG323DC	RTN	GATE	109- 47	118	380	SP380A	PHIN	GATE	67- 50
9	324	ZN324	FERB	GATE	67- 17	119	381	ESM381	THEF	SPECIAL	182- 2
10	324	ZN324E	FERB	GATE	67- 18	120	381	SP381A	MULB	GATE	67- 3
11	324	324AL	TSC	GATE	69- 56	121	381	SP381A	PHIN	GATE	67- 3
12	324	324CL	TSC	GATE	69- 57	122	382	ESM382	THEF	SPECIAL	183- 33
13	325	325AJ	TSC	GATE	69- 58	123	383	ESM383	THEF	GATE	66- 90
14	325	325AL	TSC	GATE	69- 59	124	384	SP384A	MULB	GATE	89- 71
15	325	325CJ	TSC	GATE	69- 89	125	384	SP384A	PHIN	GATE	89- 71
16	325	325CL	TSC	GATE	69- 60	126	387	SP387A	MULB	GATE	69- 44
17	326	326AJ	TSC	GATE	69- 61	127	387	SP387A	PHIN	GATE	69- 44
18	326	326AL	TSC	GATE	69- 62	128	394	ZN394E	FERB	FLIP FLOP	37- 48
19	326	326CJ	TSC	GATE	69- 86	129	397	ZN397E	FERB	FLIP FLOP	37- 49
20	326	326CL	TSC	GATE	69- 63	130	400	MB400	FCAJ	GATE	104- 44
21	328	SP328A	MULB	FLIP FLOP	54- 64	131	400	MB400M	FCAJ	GATE	104- 45
22	328	SP328A	PHIN	FLIP FLOP	54- 64	132	400	SFC400E	THEF	GATE	105- 89
23	329	ZN329	FERB	GATE	67- 19	133	400	SFC400EM	THEF	GATE	105- 90
24	329	ZN329E	FERB	GATE	67- 20	134	400	SFC400ET	THEF	GATE	105- 91
25	330	ZN330	FERB	GATE	67- 21	135	400	SFC400HE	THEF	GATE	105- 92
26	330	ZN330E	FERB	GATE	67- 22	136	400	SFC400HEM	THEF	GATE	105- 93
27	331	331AL	TSC	GATE	70- 93	137	400	SFC400HJM	THEF	GATE	105- 94
28	331	331CL	TSC	GATE	70- 94	138	400	SFC400HKM	THEF	GATE	105- 95
29	332	ZN332	FERB	GATE	67- 23	139	400	SFC400HPM	THEF	GATE	105- 96
30	332	ZN332E	FERB	GATE	67- 24	140	400	SFC400JM	THEF	GATE	105- 97
31	332	332AJ	TSC	GATE	108- 83	141	400	SFC400KM	THEF	GATE	105- 98
32	332	332AL	TSC	GATE	108- 84	142	400	SFC400LE	THEF	GATE	97- 48
33	332	332CJ	TSC	GATE	108- 85	143	400	SFC400LEM	THEF	GATE	97- 49
34	332	332CL	TSC	GATE	108- 86	144	400	SFC400LJM	THEF	GATE	97- 50
35	333	ZN333	FERB	GATE	66-101	145	400	SFC400LKM	THEF	GATE	97- 51
36	333	ZN333E	FERB	GATE	66-102	146	400	SFC400LPM	THEF	GATE	97- 52
37	333	333AJ	TSC	GATE	74- 91	147	400	SFC400LSE	THEF	GATE	105- 99
38	333	333AL	TSC	GATE	108- 87	148	400	SFC400LSEM	THEF	GATE	105-100
39	333	333CJ	TSC	GATE	108- 88	149	400	SFC400PM	THEF	GATE	105-101
40	333	333CL	TSC	GATE	108- 89	150	400	SFC400SE	THEF	GATE	105-102
41	333	SP333A	MULB	GATE	66-109	151	400	SFC400SJM	THEF	GATE	105-103
42	333	SP333A	PHIN	GATE	66-109	152	400	SFC400SKM	THEF	GATE	105-104
43	334	334AL	TSC	GATE	108- 90	153	401	MB401	FCAJ	GATE	104- 46
44	334	334CL	TSC	GATE	108- 91	154	401	MB401M	FCAJ	GATE	104- 47
45	334	SP334A	MULB	GATE	89- 68	155	401	SFC401AE	THEF	GATE	105-105
46	334	SP334A	PHIN	GATE	89- 68	156	401	SFC401E	THEF	GATE	105-106
47	335	335AJ	TSC	GATE	108- 92	157	401	SFC401EM	THEF	GATE	105-107
48	335	335AL	TSC	GATE	108- 93	158	401	SFC401ET	THEF	GATE	105-108
49	335	335CJ	TSC	GATE	108- 94	159	401	SFC401HE	THEF	GATE	105-109
50	335	335CL	TSC	GATE	108- 95	160	401	SFC401HEM	THEF	GATE	105-110
51	337	SP337A	MULB	GATE	69- 42	161	401	SFC401HJM	THEF	GATE	106- 1
52	337	SP337A	PHIN	GATE	69- 42	162	401	SFC401HKM	THEF	GATE	106- 2
53	341	341AL	TSC	GATE	66- 86	163	401	SFC401HPM	THEF	GATE	106- 3
54	341	341CL	TSC	GATE	66- 87	164	401	SFC401JM	THEF	GATE	106- 4
55	342	342AJ	TSC	TIME DELAY	122-108	165	401	SFC401KM	THEF	GATE	106- 5
56	342	342AL	TSC	TIME DELAY	123- 1	166	401	SFC401LSE	THEF	GATE	106- 6
57	342	342CJ	TSC	TIME DELAY	123- 2	167	401	SFC401LSEM	THEF	GATE	106- 7
58	342	342CL	TSC	TIME DELAY	123- 3	168	401	SFC401PM	THEF	GATE	106- 8
59	343	343AJ	TSC	MAGN COMP	165- 63	169	401	LCE401	FERB	FLIP FLOP	39-100
60	343	343AL	TSC	MAGN COMP	165- 64	170	402	MB402	FCAJ	GATE	104- 48
61	343	343CJ	TSC	MAGN COMP	165- 65	171	402	MB402M	FCAJ	GATE	104- 49
62	343	343CL	TSC	MAGN COMP	165- 66	172	402	SFC402E	THEF	GATE	92- 52
63	344	ZN344	FERB	GATE	67- 25	173	402	SFC402EM	THEF	GATE	92- 53
64	344	ZN344E	FERB	GATE	67- 26	174	402	SFC402ET	THEF	GATE	92- 54
65	346	ZN346	FERB	GATE	67- 27	175	402	SFC402EV	THEF	GATE	92- 55
66	346	ZN346E	FERB	GATE	67- 28	176	402	SFC402P	THEF	GATE	92- 56
67	347	347AL	TSC	TIME DELAY	123- 4	177	402	SFC402PM	THEF	GATE	92- 57
68	347	347CL	TSC	TIME DELAY	123- 5	178	402	LCE402	FERB	GATE	75- 38
69	348	ZN348	FERB	FLIP FLOP	37- 46	179	403	MB403	FCAJ	GATE	104- 50
70	348	ZN348E	FERB	FLIP FLOP	37- 47	180	403	MB403M	FCAJ	GATE	104- 51
71	349	349AL	TSC	TIME DELAY	122- 3	181	403	SFC403E	THEF	GATE	106- 9
72	349	349CL	TSC	TIME DELAY	122- 4	182	403	SFC403EM	THEF	GATE	106- 10
73	352	SP352A	MULB	GATE	93- 86	183	403	SFC403ET	THEF	GATE	106- 11
74	352	SP352A	PHIN	GATE	93- 86	184	403	SFC403EV	THEF	GATE	106- 12
75	355	355AJ	TSC	TIME DELAY	123- 12	185	403	SFC403LE	THEF	GATE	94- 28
76	355	355AL	TSC	TIME DELAY	123- 13	186	403	SFC403LEM	THEF	GATE	94- 29
77	355	355CJ	TSC	TIME DELAY	123- 10	187	403	LCE403	FERB	GATE	75- 53
78	355	355CL	TSC	TIME DELAY	123- 11	188	404	MB404	FCAJ	GATE	104- 52
79	356	SP356A	MULB	GATE	69- 45	189	404	MB404M	FCAJ	GATE	104- 53
80	356	SP356A	PHIN	GATE	69- 45	190	405	MB405	FCAJ	GATE	86- 14
81	357	SP357A	MULB	GATE	110- 58	191	405	MB405M	FCAJ	GATE	86- 15
82	357	SP357A	PHIN	GATE	110- 58	192	406	MB406	FCAJ	GATE	113- 92
83	358	SP358A	MULB	GATE	93- 87	193	406	MB406M	FCAJ	GATE	113- 93
84	358	SP358A	PHIN	GATE	93- 87	194	406	LCE406	FERB	TIME DELAY	123- 49
85	360	S360B110	SIEG	COUNTER	139- 48	195	407	MB407	FCAJ	FLIP FLOP	45- 34
86	360	S360B110C	SIEG	COUNTER	139- 49	196	407	MB407M	FCAJ	FLIP FLOP	45- 35
87	362	ZN362	FERB	GATE	67- 29	197	407	LCE407	FERB	CLOCK/MV	154- 89
88	362	ZN362E	FERB	GATE	67- 30	198	408	MB408	FCAJ	ADDER	160- 41
89	362	SP362A	MULB	TIME DELAY	122-107	199	408	MB408M	FCAJ	ADDER	160- 42
90	362	SP362A	PHIN	TIME DELAY	122-107	200	408	SFC408E	THEF	GATE	80- 37
91	363	363AL	TSC	GATE	108- 96	201	408	SFC408EM	THEF	GATE	80- 38
92	363	363CL	TSC	GATE	108- 97	202	408	SFC408ET	THEF	GATE	80- 39
93	370	370AJ	TSC	FLIP FLOP	54- 43	203	408	SFC408EV	THEF	GATE	80- 40
94	370	370AL	TSC	FLIP FLOP	54- 44	204	408	SFC408P	THEF	GATE	80- 41
95	370	370CJ	TSC	FLIP FLOP	54- 45	205	408	SFC408PM	THEF	GATE	80- 42
96	370	370CL	TSC	FLIP FLOP	54- 46	206	408	LCE408/A	FERB	GATE	75- 58
97	370	SP370A	MULB	GATE	67- 49	207	408	LCE408/O	FERB	GATE	75- 59
98	370	SP370A	PHIN	GATE	67- 49	208	409	SFC409E	THEF	GATE	80- 43
99	371	371AJ	TSC	COUNTER	138- 59	209	409	SFC409EM	THEF	GATE	80- 44
100	371	371AL	TSC	COUNTER	138- 60	210	409	SFC409ET	THEF	GATE	80- 45
101	371	371CJ	TSC	COUNTER	138- 68	211	409	SFC409EV	THEF	GATE	80- 46
102	371	371CL	TSC	COUNTER	138- 61	212	409	SFC409P	THEF	GATE	80- 47
103	372	372AL	TSC	COUNTER	138- 87	213	409	SFC409PM	THEF	GATE	80- 48
104	372	372CL	TSC	COUNTER	138- 88	214	410	MB410	FCAJ	FLIP FLOP	45- 36
105	373	373AL	TSC	COUNTER	138- 62	215	410	MB410M	FCAJ	FLIP FLOP	45- 37
106	373	373CL	TSC	COUNTER	138- 63	216	410	SFC410E	THEF	GATE	106- 13
107	374	374AL	TSC	COUNTER	138- 89	217	410	SFC410EM	THEF	GATE	106- 14
108	374	374CL	TSC	COUNTER	138- 90	218	410	SFC410ET	THEF	GATE	106- 15
109	374	SP374A	MULB	GATE	89- 69	219	410	SFC410HE	THEF	GATE	106- 16
110	374	SP374A	PHIN	GATE	89- 69	220	410	SFC410HEM	THEF	GATE	106- 17

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IN ORDER OF: (1)GENERIC NO. (2)MFR TYPE NO.

LINE No.	1 GENERIC NO.	2 MANUFACTURER TYPE NO.	MFR. CODE	PRODUCT CLASS	PAGE & LINE	LINE No.	1 GENERIC NO.	2 MANUFACTURER TYPE NO.	MFR. CODE	PRODUCT CLASS	PAGE & LINE
1	410	SFC410HP	THEF	GATE	106- 18	111	454	SFC454LE	THEF	GATE	83- 32
2	410	SFC410HPM	THEF	GATE	106- 19	112	454	SFC454LEM	THEF	GATE	83- 33
3	410	SFC410LE	THEF	GATE	97- 53	113	454	SFC454PM	THEF	GATE	86- 66
4	410	SFC410LEM	THEF	GATE	97- 54	114	456	MB456	FCAJ	COUNTER	147- 89
5	410	SFC410LPM	THEF	GATE	97- 55	115	456	MB456M	FCAJ	COUNTER	147- 90
6	410	SFC410PM	THEF	GATE	106- 20	116	457	MB457	FCAJ	COUNTER	142- 18
7	410	LCE410	FERB	GATE	75- 29	117	457	MB457M	FCAJ	COUNTER	142- 19
8	411	MB411	FCAJ	GATE	82- 44	118	458	MB458	FCAJ	ALU	168- 83
9	411	MB411M	FCAJ	GATE	86- 16	119	458	MB458M	FCAJ	ALU	168- 84
10	411	SFC411HE	THEF	GATE	80- 49	120	459	MB459	FCAJ	CARRY GEN	170- 56
11	411	SFC411HEM	THEF	GATE	80- 50	121	459	MB459M	FCAJ	CARRY GEN	170- 57
12	411	SFC411HP	THEF	GATE	80- 51	122	460	SFC460E	THEF	GATE	114- 23
13	411	SFC411HPM	THEF	GATE	80- 52	123	460	SFC460EM	THEF	GATE	114- 24
14	411	LCE411	FERB	GATE	75- 31	124	460	SFC460ET	THEF	GATE	114- 25
15	416	MB416	FCAJ	GATE	104- 54	125	460	SFC460PM	THEF	GATE	114- 26
16	416	MB416M	FCAJ	GATE	104- 55	126	472	SFC472E	THEF	FLIP FLOP	49- 68
17	417	MB417	FCAJ	GATE	92- 16	127	472	SFC472EM	THEF	FLIP FLOP	49- 69
18	417	MB417M	FCAJ	GATE	92- 17	128	472	SFC472ET	THEF	FLIP FLOP	49- 70
19	420	MB420	FCAJ	FLIP FLOP	52- 48	129	472	SFC472HE	THEF	FLIP FLOP	37- 30
20	420	MB420M	FCAJ	FLIP FLOP	52- 49	130	472	SFC472HPM	THEF	FLIP FLOP	37- 31
21	420	SFC420E	THEF	GATE	106- 21	131	472	SFC472LE	THEF	FLIP FLOP	42- 19
22	420	SFC420EM	THEF	GATE	106- 22	132	472	SFC472LEM	THEF	FLIP FLOP	42- 20
23	420	SFC420ET	THEF	GATE	106- 23	133	472	SFC472PM	THEF	FLIP FLOP	37- 32
24	420	SFC420HE	THEF	GATE	106- 24	134	473	SFC473E	THEF	FLIP FLOP	49- 71
25	420	SFC420HEM	THEF	GATE	106- 25	135	473	SFC473EM	THEF	FLIP FLOP	46- 31
26	420	SFC420HPM	THEF	GATE	106- 26	136	473	SFC473ET	THEF	FLIP FLOP	46- 32
27	420	SFC420LE	THEF	GATE	97- 56	137	473	SFC473LE	THEF	FLIP FLOP	42- 21
28	420	SFC420LEM	THEF	GATE	97- 57	138	473	SFC473LEM	THEF	FLIP FLOP	42- 22
29	420	SFC420PM	THEF	GATE	106- 27	139	473	SFC473PM	THEF	FLIP FLOP	37- 33
30	421	SFC421HE	THEF	GATE	80- 53	140	474	SFC474E	THEF	FLIP FLOP	52- 63
31	421	SFC421HEM	THEF	GATE	80- 54	141	474	SFC474EM	THEF	FLIP FLOP	52- 64
32	426	SFC426E	THEF	GATE	106- 28	142	474	SFC474ET	THEF	FLIP FLOP	52- 65
33	426	SFC426EM	THEF	GATE	106- 29	143	474	SFC474EV	THEF	FLIP FLOP	52- 66
34	426	SFC426ET	THEF	GATE	106- 30	144	474	SFC474HE	THEF	FLIP FLOP	52- 67
35	430	MB430	FCAJ	LATCHES	174- 2	145	474	SFC474HEM	THEF	FLIP FLOP	52- 68
36	430	MB430M	FCAJ	LATCHES	174- 3	146	474	SFC474HPM	THEF	FLIP FLOP	52- 69
37	430	SFC430E	THEF	GATE	106- 31	147	474	SFC474LE	THEF	FLIP FLOP	50- 77
38	430	SFC430EM	THEF	GATE	106- 32	148	474	SFC474LEM	THEF	FLIP FLOP	50- 78
39	430	SFC430ET	THEF	GATE	106- 33	149	474	SFC474PM	THEF	FLIP FLOP	52- 70
40	430	SFC430HE	THEF	GATE	106- 34	150	475	SFC475E	THEF	LATCHES	177- 72
41	430	SFC430HEM	THEF	GATE	106- 35	151	475	SFC475EM	THEF	LATCHES	177- 73
42	430	SFC430HPM	THEF	GATE	106- 36	152	475	SFC475ET	THEF	LATCHES	177- 74
43	430	SFC430LE	THEF	GATE	106- 37	153	475	SFC475JM	THEF	LATCHES	177- 75
44	430	SFC430LEM	THEF	GATE	97- 58	154	475	SFC475KM	THEF	LATCHES	177- 76
45	430	SFC430PM	THEF	GATE	106- 38	155	476	SFC476E	THEF	FLIP FLOP	46- 33
46	431	MB431	FCAJ	GATE	104- 56	156	476	SFC476EM	THEF	FLIP FLOP	46- 34
47	431	MB431M	FCAJ	GATE	104- 57	157	476	SFC476ET	THEF	FLIP FLOP	46- 35
48	433	MB433	FCAJ	GATE	104- 58	158	480	MM480	NSC	GATE	93- 65
49	433	MB433M	FCAJ	GATE	104- 59	159	481	MM481	NSC	GATE	113- 36
50	435	MB435	FCAJ	GATE	104- 60	160	483	MM483	NSC	FLIP FLOP	40- 9
51	435	MB435M	FCAJ	GATE	104- 61	161	483	SFC483ALSE	THEF	ADDER	162- 24
52	437	SFC437E	THEF	GATE	106- 39	162	483	SFC483ALSEM	THEF	ADDER	162- 25
53	437	SFC437EM	THEF	GATE	106- 40	163	483	SFC483E	THEF	ADDER	162- 26
54	437	SFC437ET	THEF	GATE	106- 41	164	483	SFC483EM	THEF	ADDER	162- 27
55	438	SFC438E	THEF	GATE	106- 42	165	483	SFC483ET	THEF	ADDER	162- 28
56	438	SFC438EM	THEF	GATE	106- 43	166	483	SFC483JM	THEF	ADDER	162- 29
57	438	SFC438ET	THEF	GATE	106- 44	167	483	SFC483KM	THEF	ADDER	162- 30
58	440	MB440	FCAJ	TIME DELAY	124- 69	168	485	SFC485E	THEF	MAGN COMP	166- 30
59	440	MB440M	FCAJ	TIME DELAY	124- 70	169	485	SFC485EM	THEF	MAGN COMP	166- 31
60	440	SFC440E	THEF	GATE	106- 45	170	485	SFC485ET	THEF	MAGN COMP	166- 32
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62	440	SFC440ET	THEF	GATE	106- 47	172	485	SFC485KM	THEF	MAGN COMP	166- 34
63	440	SFC440HE	THEF	GATE	106- 48	173	486	SFC486E	THEF	GATE	112- 64
64	440	SFC440HEM	THEF	GATE	106- 49	174	486	SFC486EM	THEF	GATE	112- 65
65	440	SFC440HPM	THEF	GATE	106- 50	175	486	SFC486ET	THEF	GATE	112- 66
66	440	SFC440PM	THEF	GATE	106- 51	176	486	SFC486PM	THEF	GATE	112- 67
67	442	MB442	FCAJ	DECODER	116- 24	177	490	SFC490E	THEF	COUNTER	140- 49
68	442	MB442M	FCAJ	DECODER	116- 25	178	490	SFC490EM	THEF	COUNTER	140- 50
69	442	SFC442E	THEF	DECODER	120- 28	179	490	SFC490ET	THEF	COUNTER	140- 51
70	442	SFC442EM	THEF	DECODER	120- 29	180	490	SFC490PM	THEF	COUNTER	140- 52
71	442	SFC442ET	THEF	DECODER	120- 30	181	492	SFC492E	THEF	COUNTER	150- 16
72	443	MB443	FCAJ	DECODER	116- 26	182	492	SFC492EM	THEF	COUNTER	150- 17
73	443	MB443M	FCAJ	DECODER	116- 27	183	492	SFC492ET	THEF	COUNTER	150- 18
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75	447	MB447M	FCAJ	PARITY GEN	172- 68	185	493	SFC493E	THEF	COUNTER	150- 20
76	448	MB448	FCAJ	MAGN COMP	166- 1	186	493	SFC493EM	THEF	COUNTER	150- 21
77	448	MB448M	FCAJ	MAGN COMP	166- 2	187	493	SFC493ET	THEF	COUNTER	150- 22
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79	449	MB449M	FCAJ	GATE	112- 36	189	493	SFC493LEM	THEF	COUNTER	149- 94
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81	450	MB450M	FCAJ	COUNTER	147- 88	191	500	MSM500	OKJ	GATE	62- 20
82	450	SFC450E	THEF	GATE	112- 57	192	501	MSM501RS	OKJ	GATE	62- 21
83	450	SFC450EM	THEF	GATE	86- 49	193	501	LCE501	FERB	FLIP FLOP	39-101
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86	450	SFC450HPM	THEF	GATE	112- 60	196	503	MSM503RS	OKJ	GATE	62- 23
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92	451	SFC451ET	THEF	GATE	86- 51	202	506	MSM506RS	OKJ	GATE	58- 87
93	451	SFC451HE	THEF	GATE	86- 52	203	506	LCE506	FERB	TIME DELAY	123- 50
94	451	SFC451HEM	THEF	GATE	86- 53	204	507	MSM507	OKJ	GATE	58- 88
95	451	SFC451HPM	THEF	GATE	86- 54	205	507	MSM507RS	OKJ	GATE	58- 89
96	451	SFC451LE	THEF	GATE	83- 31	206	507	LCE507	FERB	CLOCK/MV	154- 90
97	451	SFC451LEM	THEF	GATE	83- 31	207	508	MSM508RS	OKJ	GATE	66- 26
98	451	SFC451PM	THEF	GATE	112- 63	208	508	LCE508	FERB	GATE	75- 60
99	453	SFC453E	THEF	GATE	86- 55	209	509	MSM509RS	OKJ	GATE	66- 27
100	453	SFC453EM	THEF	GATE	86- 56	210	510	MSM510	OKJ	GATE	66- 28
101	453	SFC453ET	THEF	GATE	86- 57	211	510	MSM510RS	OKJ	GATE	66- 29
102	453	SFC453HE	THEF	GATE	86- 58	212	512	MSM512	OKJ	GATE	56- 64
103	453	SFC453HPM	THEF	GATE	86- 59	213	512	MSM512RS	OKJ	GATE	56- 65
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105	454	SFC454E	THEF	GATE	86- 60	215	514	MSM514RS	OKJ	GATE	56- 67
106	454	SFC454EM	THEF	GATE	86- 61	216	530	MSM530	OKJ	FLIP FLOP	36- 75
107	454	SFC454ET	THEF	GATE	86- 62	217	530	MSM530RS	OKJ	FLIP FLOP	36- 76
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3	551	MSM551RS	OKIJ	COUNTER	136- 84	113	556	XR556M	EXR	TIME DELAY	128- 53
4	552	MSM552RS	OKIJ	COUNTER	136- 76	114	556	XRL556CN	EXR	SPECIAL	183- 51
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6	553	SE553BA	PHIN	TIME DELAY	124- 89	116	556	XRL556M	EXR	SPECIAL	183- 53
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8	553	SE553F	PHIN	TIME DELAY	124- 90	118	556	SE556-1CN	SIC	TIME DELAY	128- 44
9	553	NE553BA	MULB	TIME DELAY	124- 87	119	556	SE556-1F	SIC	TIME DELAY	128- 45
10	553	NE553BA	PHIN	TIME DELAY	124- 87	120	556	SE556-1N	SIC	TIME DELAY	128- 46
11	553	NE553F	MULB	TIME DELAY	124- 88	121	556	SE556A	MULB	TIME DELAY	128- 11
12	553	NE553F	PHIN	TIME DELAY	124- 88	122	556	SE556A	PHIN	TIME DELAY	128- 11
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14	554	SE554BA	PHIN	TIME DELAY	124- 93	124	556	SE556CA	PHIN	TIME DELAY	128- 12
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20	554	NE554F	PHIN	TIME DELAY	124- 92	130	556	SE556F	VALG	TIME DELAY	128- 54
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22	0555	TDA0555D	VALG	TIME DELAY	127- 36	132	556	SE556N	RTCF	TIME DELAY	128- 55
23	0555	TDB0555	SIEG	TIME DELAY	128- 14	133	556	SE556N	SIC	TIME DELAY	128- 55
24	0555	TDB0555B	SIEG	TIME DELAY	128- 15	134	556	SE556N	VALG	TIME DELAY	128- 55
25	0555	TDB0555CM	THEF	TIME DELAY	127- 48	135	556	NE556-1F	SIC	TIME DELAY	128- 38
26	0555	TDB0555DPB	THEF	TIME DELAY	127- 49	136	556	NE556-1N	SIC	TIME DELAY	128- 39
27	0555	TDC0555	SIEG	TIME DELAY	128- 17	137	556	NE556A	FSC	TIME DELAY	128- 8
28	0555	TDC0555CM#mil	THEF	TIME DELAY	127- 51	138	556	NE556A	MULB	TIME DELAY	128- 8
29	555	JA555HC	FSC	TIME DELAY	128- 18	139	556	NE556A	PHIN	TIME DELAY	128- 8
30	555	JA555HM	FSC	TIME DELAY	128- 19	140	556	NE556F	SIC	TIME DELAY	128- 40
31	555	JA555TC	FSC	TIME DELAY	128- 20	141	556	NE556F	SIC	TIME DELAY	128- 72
32	555	XR555CM	EXR	TIME DELAY	128- 6	142	556	NE556F	VALG	TIME DELAY	128- 72
33	555	XR555CN	EXR	TIME DELAY	128- 34	143	556	NE556J	TII	TIME DELAY	128- 31
34	555	XR555CP	EXR	TIME DELAY	128- 35	144	556	NE556N	SIC	TIME DELAY	128- 32
35	555	XR555M	EXR	TIME DELAY	128- 52	145	556	NE556N	TII	TIME DELAY	128- 32
36	555	XRL555CN	EXR	TIME DELAY	128- 9	146	556	NE556N	VALG	TIME DELAY	128- 32
37	555	XRL555CP	EXR	TIME DELAY	128- 10	147	556	LM556CJ	NSC	TIME DELAY	123- 52
38	555	XRL555M	EXR	TIME DELAY	128- 13	148	556	LM556CN	NSC	TIME DELAY	123- 52
39	555	SE555C	SIC	TIME DELAY	128- 66	149	556	LM556J	NSC	TIME DELAY	123- 54
40	555	SE555CF	VALG	TIME DELAY	128- 66	150	558	SA558F	RTCF	TIME DELAY	123- 44
41	555	SE555CFE	RTCF	TIME DELAY	128- 67	151	558	SA558F	SIC	TIME DELAY	123- 44
42	555	SE555CFE	SIC	TIME DELAY	128- 67	152	558	SA558F	VALG	TIME DELAY	123- 44
43	555	SE555CFE	VALG	TIME DELAY	128- 67	153	558	SA558N	RTCF	TIME DELAY	123- 45
44	555	SE555CH	SIC	TIME DELAY	128- 68	154	558	SA558N	SIC	TIME DELAY	123- 45
45	555	SE555CH	VALG	TIME DELAY	128- 68	155	558	SA558N	VALG	TIME DELAY	123- 45
46	555	SE555CN	RTCF	TIME DELAY	128- 69	156	558	XR558CN	EXR	SPECIAL	183- 45
47	555	SE555CN	SIC	TIME DELAY	128- 69	157	558	XR558CP	EXR	SPECIAL	183- 46
48	555	SE555CN	VALG	TIME DELAY	128- 69	158	558	XR558M	EXR	SPECIAL	183- 47
49	555	SE555F	SIC	TIME DELAY	128- 56	159	558	SE558F	RTCF	TIME DELAY	123- 46
50	555	SE555F	VALG	TIME DELAY	128- 56	160	558	SE558F	SIC	TIME DELAY	123- 46
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53	555	SE555FE	VALG	TIME DELAY	128- 57	163	558	SE558N	SIC	TIME DELAY	123- 47
54	555	SE555H	SIC	TIME DELAY	128- 58	164	558	SE558N	VALG	TIME DELAY	123- 47
55	555	SE555H	VALG	TIME DELAY	128- 58	165	558	NE558F	SIC	TIME DELAY	128- 2
56	555	SE555JG	TII	TIME DELAY	128- 49	166	558	NE558N	SIC	TIME DELAY	128- 3
57	555	SE555L	TII	TIME DELAY	128- 50	167	559	XR559CN	EXR	SPECIAL	183- 48
58	555	SE555N	RTCF	TIME DELAY	128- 59	168	559	XR559CP	EXR	SPECIAL	183- 49
59	555	SE555N	SIC	TIME DELAY	128- 59	169	559	XR559M	EXR	SPECIAL	183- 50
60	555	SE555N	VALG	TIME DELAY	128- 59	170	584	MSM564RS	OKIJ	DECODER	117- 34
61	555	SE555P	TII	TIME DELAY	128- 51	171	580	MM580	NSC	GATE	93- 66
62	555	SE555T	AMD	TIME DELAY	128- 70	172	580	MSM580RS	OKIJ	ADDER	159- 13
63	555	SE555T	MULB	TIME DELAY	128- 70	173	581	MM581	NSC	GATE	113- 37
64	555	SE555T	PHIN	TIME DELAY	128- 70	174	581	MSM581	OKIJ	GATE	64-103
65	555	SE555V	MULB	TIME DELAY	128- 71	175	581	MSM581RS	OKIJ	GATE	64-104
66	555	SE555V	PHIN	TIME DELAY	128- 71	176	582	MSM582RS	OKIJ	MAGN COMP	165- 61
67	555	CA555CE#mil	RCA	TIME DELAY	127- 98	177	583	MM583	NSC	FLIP FLOP	40- 10
68	555	CA555CG#mil	RCA	TIME DELAY	127- 99	178	601	MB601	FCAJ	GATE	104- 62
69	555	CA555CS#mil	RCA	TIME DELAY	127-100	179	602	MB602	FCAJ	GATE	104- 63
70	555	CA555CT#mil	RCA	TIME DELAY	127-101	180	603	MB603	FCAJ	GATE	104- 64
71	555	CA555E#mil	RCA	TIME DELAY	127-102	181	604	MB604	FCAJ	GATE	104- 65
72	555	CA555G#mil	RCA	TIME DELAY	127-103	182	605	MB605	FCAJ	GATE	104- 66
73	555	CA555S#mil	RCA	TIME DELAY	127-104	183	606	MB606	FCAJ	GATE	86- 17
74	555	CA555T#mil	RCA	TIME DELAY	128- 1	184	607	MB607	FCAJ	GATE	113- 94
75	555	NE555D	SIC	TIME DELAY	128- 27	185	609	MB609	FCAJ	FLIP FLOP	45- 38
76	555	NE555F	SIC	TIME DELAY	128- 60	186	613	MB613	FCAJ	GATE	86- 18
77	555	NE555F	VALG	TIME DELAY	128- 60	187	614	MB614	FCAJ	GATE	79- 46
78	555	NE555FE	RTCF	TIME DELAY	128- 61	188	616	SP616A	MULB	GATE	67-104
79	555	NE555FE	SIC	TIME DELAY	128- 61	189	616	SP616A	PHIN	GATE	67-104
80	555	NE555FE	VALG	TIME DELAY	128- 61	190	617	uPC617C	NECJ	TIME DELAY	128- 4
81	555	NE555H	VALG	TIME DELAY	128- 62	191	618	MB618	FCAJ	FLIP FLOP	45- 39
82	555	NE555JG	TII	TIME DELAY	128- 28	192	620	SP620A	MULB	FLIP FLOP	38- 56
83	555	NE555L	TII	TIME DELAY	128- 29	193	620	SP620A	PHIN	FLIP FLOP	38- 56
84	555	NE555N	RTCF	TIME DELAY	128- 63	194	629	H629B1	SGAI	SPECIAL	182- 77
85	555	NE555N	SIC	TIME DELAY	128- 63	195	629	SP629A	MULB	FLIP FLOP	38- 81
86	555	NE555N	VALG	TIME DELAY	128- 63	196	629	SP629A	PHIN	FLIP FLOP	38- 81
87	555	NE555P	TII	TIME DELAY	128- 30	197	631	SP631A	MULB	GATE	70- 86
88	555	NE555T	AMD	TIME DELAY	128- 64	198	631	SP631A	PHIN	GATE	70- 86
89	555	NE555T	MULB	TIME DELAY	128- 64	199	632	H632B1	SGAI	SPECIAL	182- 78
90	555	NE555T	PHIN	TIME DELAY	128- 64	200	659	SP659A	MULB	GATE	69-101
91	555	NE555V	AMD	TIME DELAY	128- 65	201	659	SP659A	PHIN	GATE	69-101
92	555	NE555V	FSC	TIME DELAY	128- 65	202	660	MC660L,P%	MOTA	GATE	69- 90
93	555	NE555V	MULB	TIME DELAY	128- 65	203	661	MC661L,P%	MOTA	GATE	69- 91
94	555	NE555V	PHIN	TIME DELAY	128- 65	204	662	MC662L,P%	MOTA	GATE	69- 92
95	555	LM555CH	NSC	TIME DELAY	128- 24	205	663	MC663L,P%	MOTA	FLIP FLOP	37-106
96	555	LM555CJ	NSC	TIME DELAY	128- 25	206	664	MC664L,P%	MOTA	FLIP FLOP	38- 73
97	555	LM555CN	NSC	TIME DELAY	128- 26	207	667	MC667L,P%	MOTA	TIME DELAY	122-100
98	555	LM555H	NSC	TIME DELAY	128- 47	208	668	MC668L,P%	MOTA	GATE	69- 93
99	555	LM555J	NSC	TIME DELAY	128- 48	209	669	MC669L,P%	MOTA	GATE	70- 95
100	0556	TDB0556A	SIEG	TIME DELAY	128- 16	210	670	MC670L,P%	MOTA	GATE	69- 94
101	0556	TDB0556DP	THEF	TIME DELAY	127- 50	211	670	SP670A	MULB	GATE	67-105
102	0556	TDC0556DP#mil	THEF	TIME DELAY	127- 52	212	670	SP670A	PHIN	GATE	67-105
103	556	uA556DC	FSC	TIME DELAY	128- 21	213	671	MC671L,P%	MOTA	GATE	69- 95
104	556	uA556DM	FSC	TIME DELAY	128- 22	214	672	MC672L,P%	MOTA	GATE	69- 96
105	556	uA556PC	FSC	TIME DELAY	128- 23	215	673	MC673L,P%	MOTA	GATE	66- 88
106	556	SA556-1F	SIC	TIME DELAY	128- 41	216	674	MC674L,P%	MOTA	GATE	66- 89
107	556	SA556-1N	SIC	TIME DELAY	128- 42	217	675	MC675L,P%	MOTA	SPECIAL	183- 34
108	556	SA556N	RTCF	TIME DELAY	128- 73	218	676	MC676L	MOTA	DECODER	117- 63
109	556	SA556N	SIC	TIME DELAY	128- 73	219	676	MC676P	MOTA	DECODER	117- 64
110	556	SA556N	VALG	TIME DELAY	128- 73	220	680	SP680A	PHIN	GATE	67-106

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IN ORDER OF: (1)GENERIC NO. (2)MFR TYPE NO.

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1	662	MC682L	MOTA	LATCHES	179- 29	111	883	883/4160B	SSS	COUNTER	130- 51
2	662	MC682P	MOTA	LATCHES	179- 30	112	883	883/4161B	SSS	COUNTER	133- 84
3	663	MC683L_P%	MOTA	GATE	70- 69	113	883	883/4162B	SSS	COUNTER	133- 85
4	664	MC684L	MOTA	COUNTER	138- 82	114	883	883/4163B	SSS	COUNTER	133- 86
5	664	MC684P	MOTA	COUNTER	138- 83	115	883	883/4174B	SSS	FLIP FLOP	37- 22
6	665	MC685L	MOTA	COUNTER	138- 75	116	883	883/4192B	SSS	COUNTER	130- 40
7	665	MC685P	MOTA	COUNTER	138- 76	117	883	883/4193B	SSS	COUNTER	133- 72
8	668	MC688L	MOTA	FLIP FLOP	37-107	118	883	883/4402B	SSS	GATE	59- 62
9	668	MC688P	MOTA	FLIP FLOP	37-108	119	883	883/4404B	SSS	COUNTER	133- 54
10	701	LCE702	FERB	FLIP FLOP	39-102	120	883	883/4412B	SSS	GATE	63- 18
11	702	LCE702	FERB	GATE	75- 40	121	883	883/4428B	SSS	DECODER	116- 32
12	702	M702B1	SGAI	COUNTER	133- 59	122	883	883/4445B	SSS	FREQ DIVID	156- 60
13	702	M702D1	SGAI	COUNTER	133- 60	123	883	883/4449UB	SSS	GATE	66- 45
14	702	M702D2	SGAI	COUNTER	132- 73	124	883	883/4508B	SSS	LATCHES	175- 2
15	703	LCE703	FERB	GATE	75- 55	125	883	883/4510B	SSS	COUNTER	130- 41
16	706	LCE706	FERB	TIME DELAY	123- 51	126	883	883/4514B	SSS	DECODER	117- 47
17	706	M706B1	SGAI	COUNTER	135- 13	127	883	883/4515B	SSS	DECODER	117- 48
18	707	LCE707	FERB	CLOCK/MV	154- 87	128	883	883/4516B	SSS	COUNTER	133- 73
19	708	LCE708	FERB	GATE	75- 61	129	883	883/4518B	SSS	COUNTER	130- 20
20	714	M714B1	SGAI	COUNTER	135- 14	130	883	883/4520B	SSS	COUNTER	133- 19
21	714	M714D1	SGAI	COUNTER	135- 21	131	883	883/4522B	SSS	COUNTER	130- 14
22	730	M730B1	SGAI	COUNTER	135- 15	132	883	883/4526B	SSS	COUNTER	132- 96
23	730	M730D1	SGAI	COUNTER	135- 16	133	883	883/4527B	SSS	FREQ DIVID	156- 29
24	731	M731B1	SGAI	COUNTER	135- 0	134	883	883/4528B	SSS	CLOCK/MV	155- 84
25	731	M731D1	SGAI	COUNTER	135- 11	135	883	883/4531B	SSS	PARITY GEN	172- 25
26	750	M750B1	SGAI	COUNTER	135- 17	136	883	883/4555B	SSS	DECODER	116- 92
27	750	M750D1	SGAI	COUNTER	135- 18	137	883	883/4556B	SSS	DECODER	116- 93
28	752	M752B1	SGAI	COUNTER	135- 12	138	883	883/4581B	SSS	ALLU	168- 7
29	752	M752D1	SGAI	COUNTER	135- 9	139	883	883/4582B	SSS	CARRY GEN	170- 3
30	754	M754B1	SGAI	COUNTER	135- 19	140	883	883/4584BC	SSS	GATE	66- 50
31	754	M754D1	SGAI	COUNTER	135- 20	141	883	883/4584BD	SSS	GATE	66- 51
32	802	OM802#1	MULB	TIME DELAY	122- 1	142	883	883/4584BE	SSS	GATE	66- 52
33	802	OM802#2	MULB	CLOCK/MV	154- 1	143	883	883/4584BF	SSS	GATE	66- 53
34	811	DN811	MATJ	COUNTER	138- 86	144	883	883/4584BH	SSS	GATE	66- 54
35	819	DN819	MATJ	FLIP FLOP	39- 91	145	883	883/4585B	SSS	MAGN COMP	165- 44
36	830	MC830L_P%	MOTA	GATE	69- 7	146	903	903HM	FSC	GATE	75- 42
37	832	MC832L_P%	MOTA	GATE	69- 8	147	905	905HM	FSC	FLIP FLOP	39-104
38	833	MC833L_P%	MOTA	GATE	70- 78	148	907	907HM	FSC	GATE	75- 43
39	838	MC838L_P%	MOTA	COUNTER	138- 69	149	909	909HC	FSC	GATE	75- 32
40	839	MC839L_P%	MOTA	COUNTER	138- 84	150	909	909HM	FSC	GATE	75- 33
41	844	MC844L_P%	MOTA	GATE	69- 9	151	910	910HM	FSC	GATE	75- 44
42	845	MC845L_P%	MOTA	FLIP FLOP	38-102	152	911	911HM	FSC	GATE	75- 49
43	846	MC846L_P%	MOTA	GATE	69- 10	153	913	913HM	FSC	FLIP FLOP	39-103
44	848	MC848L_P%	MOTA	FLIP FLOP	38-103	154	914	914HM	FSC	GATE	75- 45
45	849	MC849L_P%	MOTA	GATE	69- 11	155	915	915HM	FSC	GATE	75- 50
46	850	DN850	MATJ	CLOCK/MV	154- 86	156	921	921HM	FSC	GATE	75- 56
47	850	MC850L_P%	MOTA	FLIP FLOP	38- 78	157	923	923HM	FSC	FLIP FLOP	39- 96
48	851	DN851	MATJ	COUNTER	138- 71	158	926	926FM	FSC	FLIP FLOP	39- 97
49	851	MC851L_P%	MOTA	TIME DELAY	122-105	159	926	926HM	FSC	FLIP FLOP	39- 98
50	852	DN852	MATJ	DECODER	116- 11	160	930	SFC930E	THEF	GATE	70- 36
51	852	MC852L_P%	MOTA	FLIP FLOP	38- 13	161	930	MC930L	MOTA	GATE	68- 89
52	853	MC853L_P%	MOTA	FLIP FLOP	38- 14	162	930	930DM	FSC	GATE	68- 12
53	855	MC855L_P%	MOTA	FLIP FLOP	38- 15	163	930	930FM	FSC	GATE	68- 13
54	856	MC856L_P%	MOTA	FLIP FLOP	38- 16	164	930	930HM	FSC	GATE	70- 27
55	857	MC857L_P%	MOTA	GATE	69- 15	165	931	931FM	FSC	FLIP FLOP	38- 86
56	858	MC858L_P%	MOTA	GATE	69- 16	166	932	SFC932E	THEF	GATE	70- 37
57	861	MC861L_P%	MOTA	GATE	69- 12	167	932	MC932L	MOTA	GATE	68- 90
58	862	MC862L_P%	MOTA	GATE	69- 13	168	932	932DM	FSC	GATE	68- 14
59	863	MC863L_P%	MOTA	GATE	69- 14	169	932	932FM	FSC	GATE	68- 15
60	883	883/4000B	SSS	GATE	61- 91	170	932	932HM	FSC	GATE	70- 28
61	883	883/4001B	SSS	GATE	59- 57	171	933	SFC933E	THEF	GATE	70- 89
62	883	883/4001UB	SSS	GATE	59- 58	172	933	MC933L	MOTA	GATE	70- 79
63	883	883/4002B	SSS	GATE	59- 60	173	933	933DM	FSC	GATE	70- 70
64	883	883/4008B	SSS	ADDER	159- 4	174	933	933FM	FSC	GATE	70- 71
65	883	883/4011B	SSS	GATE	63- 13	175	933	933HM	FSC	GATE	70- 88
66	883	883/4011UB	SSS	GATE	63- 14	176	938	MC938L	MOTA	COUNTER	138- 70
67	883	883/4012B	SSS	GATE	63- 15	177	939	MC939L	MOTA	COUNTER	138- 85
68	883	883/4013B	SSS	FLIP FLOP	37- 20	178	941	941DM	FSC	TIME DELAY	122- 89
69	883	883/4017B	SSS	COUNTER	136- 81	179	941	941FM	FSC	TIME DELAY	122- 90
70	883	883/4018B	SSS	COUNTER	137- 33	180	941	941HM	FSC	TIME DELAY	122- 91
71	883	883/4019BC	SSS	GATE	56- 43	181	944	SFC944E	THEF	GATE	70- 38
72	883	883/4019BD	SSS	GATE	56- 44	182	944	MC944L	MOTA	GATE	68- 91
73	883	883/4019BE	SSS	GATE	56- 45	183	944	944DM	FSC	GATE	68- 16
74	883	883/4019BF	SSS	GATE	56- 46	184	944	944FM	FSC	GATE	68- 17
75	883	883/4019BH	SSS	GATE	56- 47	185	944	944HM	FSC	GATE	70- 29
76	883	883/4020B	SSS	COUNTER	133- 70	186	945	SFC945E	THEF	FLIP FLOP	38- 79
77	883	883/4022B	SSS	COUNTER	137- 34	187	945	MC945L	MOTA	FLIP FLOP	38-101
78	883	883/4023B	SSS	GATE	63- 16	188	945	945DM	FSC	FLIP FLOP	38- 57
79	883	883/4024B	SSS	COUNTER	133- 83	189	945	945FM	FSC	FLIP FLOP	38- 58
80	883	883/4025B	SSS	GATE	59- 59	190	945	945HM	FSC	FLIP FLOP	38- 74
81	883	883/4027B	SSS	FLIP FLOP	35- 33	191	946	SFC946E	THEF	GATE	70- 39
82	883	883/4028B	SSS	DECODER	116- 94	192	946	MC946L	MOTA	GATE	68- 92
83	883	883/4029B	SSS	COUNTER	133- 71	193	946	946DM	FSC	GATE	68- 18
84	883	883/4030B	SSS	GATE	65- 17	194	946	946FM	FSC	GATE	68- 19
85	883	883/4040B	SSS	COUNTER	136- 80	195	948	SFC948E	THEF	FLIP FLOP	38- 80
86	883	883/4042B	SSS	LATCHES	174- 68	196	948	MC948L	MOTA	FLIP FLOP	38-104
87	883	883/4043B	SSS	LATCHES	174- 14	197	948	948DM	FSC	FLIP FLOP	38- 59
88	883	883/4044B	SSS	LATCHES	174- 15	198	948	948FM	FSC	FLIP FLOP	38- 60
89	883	883/4047B	SSS	CLOCK/MV	155- 82	199	948	948HM	FSC	FLIP FLOP	38- 75
90	883	883/4060B	SSS	COUNTER	135- 35	200	949	MC949L	MOTA	GATE	69- 1
91	883	883/4068B	SSS	GATE	63- 17	201	949	949DC	FSC	GATE	70- 30
92	883	883/4069UB	SSS	GATE	66- 44	202	949	949DM	FSC	GATE	70- 20
93	883	883/4070B	SSS	GATE	65- 18	203	949	949FM	FSC	GATE	70- 21
94	883	883/4071B	SSS	GATE	57- 86	204	950	MC950L	MOTA	FLIP FLOP	38- 77
95	883	883/4072B	SSS	GATE	57- 87	205	950	950DM	FSC	FLIP FLOP	38- 71
96	883	883/4073B	SSS	GATE	55- 59	206	950	950FM	FSC	FLIP FLOP	38- 72
97	883	883/4075B	SSS	GATE	57- 88	207	950	950HM	FSC	FLIP FLOP	38- 76
98	883	883/4076B	SSS	FLIP FLOP	37- 21	208	951	SFC951E	THEF	TIME DELAY	122- 96
99	883	883/4077B	SSS	GATE	65- 86	209	951	MC951L	MOTA	TIME DELAY	122-103
100	883	883/4078B	SSS	GATE	59- 61	210	951	951DM	FSC	TIME DELAY	122- 92
101	883	883/4081B	SSS	GATE	55- 60	211	951	951FM	FSC	TIME DELAY	122- 93
102	883	883/4082B	SSS	GATE	55- 61	212	951	951HM	FSC	TIME DELAY	124- 49
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105	883	883/4093BC	SSS	GATE	63- 86	215	953	MC953L	MOTA	FLIP FLOP	38- 6
106	883	883/4093BD	SSS	GATE	63- 87	216	953	953DC	FSC	GATE	55- 8
107	883	883/4093BE	SSS	GATE	63- 88	217	954	954DC	FSC	GATE	55- 9
108	883	883/4093BF	SSS	GATE	63- 89	218	955	MC955L	MOTA	FLIP FLOP	38- 7
109	883	883/4093BH	SSS	GATE	63- 90	219	955	955DC	FSC	GATE	55- 10
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1	956	956DC	FSC	GATE	55- 5	111	1648	MC1648MLP#1%	MOTA	CLOCK/MV	154- 79
2	957	MC957L	MOTA	GATE	69- 17	112	1648	MC1648MLP#2%	MOTA	CLOCK/MV	154- 80
3	957	957DC	FSC	FLIP FLOP	34- 20	113	1648	SP1648	MOTA	CLOCK/MV	154- 71
4	958	MC958L	MOTA	GATE	69- 18	114	1654	MC1654L	MOTA	COUNTER	139- 26
5	958	958DC	FSC	COUNTER	139- 73	115	1658	MC1658F	MOTA	CLOCK/MV	154- 72
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7	960	960DC	FSC	DECODER	121- 18	117	1658	MC1658P	MOTA	CLOCK/MV	154- 74
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9	961	961DC	FSC	GATE	70- 31	119	1660	MC1660F	MOTA	GATE	73- 25
10	961	961DM	FSC	GATE	70- 22	120	1660	MC1660L	MOTA	GATE	73- 26
11	961	961FM	FSC	GATE	70- 23	121	1660	SP1660	MOTA	PLSB GATE	71- 37
12	962	SFC962E	THEF	GATE	70- 40	122	1662	MC1662F	MOTA	GATE	74- 12
13	962	MC962L	MOTA	GATE	69- 3	123	1662	MC1662L	MOTA	GATE	74- 13
14	962	962DM	FSC	GATE	68- 20	124	1664	MC1664F	MOTA	GATE	72- 31
15	962	962FM	FSC	GATE	68- 21	125	1664	MC1664L	MOTA	GATE	72- 32
16	963	MC963L	MOTA	GATE	69- 4	126	1666	MC1666F	MOTA	FLIP FLOP	39- 56
17	963	963DC	FSC	GATE	70- 32	127	1666	MC1666L	MOTA	FLIP FLOP	39- 57
18	963	963DM	FSC	GATE	70- 24	128	1668	MC1668F	MOTA	FLIP FLOP	39- 79
19	963	963FM	FSC	GATE	70- 25	129	1668	MC1668L	MOTA	FLIP FLOP	39- 80
20	964	964DC	FSC	GATE	55- 11	130	1670	MC1670F	MOTA	FLIP FLOP	39- 81
21	966	966DC	FSC	GATE	55- 3	131	1670	MC1670L	MOTA	FLIP FLOP	39- 82
22	967	967DC	FSC	FLIP FLOP	34- 16	132	1670	SP1670	MOTA	PLSB FLIP FLOP	39- 7
23	971	971DC	FSC	GATE	55- 4	133	1672	MC1672F	MOTA	GATE	74- 56
24	989	989DC	FSC	COUNTER	139- 75	134	1672	MC1672L	MOTA	GATE	74- 57
25	989	989HM	FSC	COUNTER	139- 76	135	1674	MC1674F	MOTA	GATE	74- 80
26	1003	TDC1003J2C	TRW	MULTIPLIER	164- 11	136	1674	MC1674L	MOTA	GATE	74- 81
27	1003	TDC1003J	TRW	MULTIPLIER	164- 12	137	1678	MC1678L	MOTA	COUNTER	139- 40
28	1004	TDC1004J9C	TRW	SPECIAL	182- 3	138	1688	MC1688F	MOTA	GATE	73- 27
29	1004	TDC1004J9F	TRW	SPECIAL	182- 4	139	1688	MC1688L	MOTA	GATE	73- 28
30	1004	N1004A	MULB	GATE	74- 36	140	1690	MC1690F	MOTA	FLIP FLOP	39- 83
31	1004	N1004A	PHIN	GATE	74- 36	141	1690	MC1690L	MOTA	FLIP FLOP	39- 84
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33	1005	N1005A	PHIN	GATE	74- 37	143	1699	MC1699F	MOTA	COUNTER	139- 27
34	1006	N1006A	MULB	GATE	74- 38	144	1699	MC1699L	MOTA	COUNTER	139- 28
35	1006	N1006A	PHIN	GATE	74- 38	145	1800	DM1800N	MOTA	NSC GATE	69- 5
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37	1008	TDC1008J4F	TRW	MULTIPLIER	164- 1	147	1801	DM1801N	MOTA	NSC GATE	69- 6
38	1009	TDC1009J1C	TRW	MULTIPLIER	164- 6	148	1801	SAB1801D	MOTA	PHIN FLIP FLOP	39- 17
39	1009	TDC1009J1F	TRW	MULTIPLIER	164- 10	149	1801	SAB1801D	MOTA	RTCF FLIP FLOP	39- 17
40	1010	TDC1010J1C	TRW	MULTIPLIER	164- 17	150	1801	MC1801L P%	MOTA	GATE	67- 36
41	1010	TDC1010J1F	TRW	MULTIPLIER	164- 18	151	1802	MC1802L P%	MOTA	GATE	69- 20
42	1010	WTL1010#ai	WET	MULTIPLIER	163- 78	152	1803	MC1803L P%	MOTA	GATE	69- 21
43	1010	ZN1010E	FERB	TIME DELAY	124- 47	153	1804	MC1804L P%	MOTA	GATE	69- 22
44	1010	ZN1010F	FERB	TIME DELAY	124- 48	154	1805	MC1805L P%	MOTA	GATE	69- 23
45	1010	N1010A	MULB	GATE	74- 39	155	1806	MC1806L P%	MOTA	GATE	66- 72
46	1010	N1010A	PHIN	GATE	74- 39	156	1807	MC1807L P%	MOTA	GATE	66- 73
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48	1011	N1011A	MULB	GATE	74- 40	158	1809	MC1809L P%	MOTA	GATE	66-108
49	1012	N1012A	MULB	GATE	74- 47	159	1810	MC1810L P%	MOTA	GATE	67- 45
50	1012	N1012A	PHIN	GATE	74- 47	160	1811	MC1811L P%	MOTA	GATE	67- 46
51	1013	N1013A	MULB	FLIP FLOP	39- 39	161	1812	MC1812L P%	MOTA	GATE	70- 65
52	1013	N1013A	PHIN	FLIP FLOP	39- 39	162	1813	MC1813L	MOTA	LATCHES	176- 39
53	1014	N1014A	MULB	FLIP FLOP	39- 52	163	1813	MC1813P	MOTA	LATCHES	176- 40
54	1014	N1014A	PHIN	FLIP FLOP	39- 52	164	1814	MC1814L	MOTA	LATCHES	176- 41
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65	1023	TDC1023J7F	TRW	SPECIAL	182- 6	175	1873	CDP1873CD	MOTA	RCA DECODER	116- 56
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67	1024	N1024A	PHIN	GATE	74- 41	177	1900	MC1900F	MOTA	GATE	69- 24
68	1025	N1025A	MULB	SPECIAL	182- 79	178	1900	MC1900L	MOTA	GATE	69- 25
69	1025	N1025A	PHIN	SPECIAL	182- 79	179	1901	MC1901F	MOTA	GATE	69- 26
70	1027	N1027A	MULB	FLIP FLOP	39- 40	180	1901	MC1901L	MOTA	GATE	69- 27
71	1027	N1027A	PHIN	FLIP FLOP	39- 40	181	1902	MC1902F	MOTA	GATE	69- 28
72	1033	N1033A	MULB	FLIP FLOP	39- 55	182	1902	MC1902L	MOTA	GATE	69- 29
73	1033	N1033A	PHIN	FLIP FLOP	39- 55	183	1903	MC1903F	MOTA	GATE	69- 30
74	1034	SA1034	SIC	FREQ DIVID	157- 12	184	1903	MC1903L	MOTA	GATE	69- 31
75	1034	SAF1034E	PHIN	FREQ DIVID	157- 76	185	1904	MC1904F	MOTA	GATE	69- 32
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77	1034	ZN1034E	FERB	TIME DELAY	128- 7	187	1905	MC1905F	MOTA	GATE	69- 34
78	1034	ZN1034P#1	FERB	FREQ DIVID	158- 4	188	1905	MC1905L	MOTA	GATE	69- 35
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85	1048	SAB1048	VALG	FREQ DIVID	157- 75	195	1909	MC1909F	MOTA	GATE	66-105
86	1059	SA1059(A)	PHIN	FREQ DIVID	156- 7	196	1909	MC1909L	MOTA	GATE	66-106
87	1078	SAB1078AD	PHIN	FREQ DIVID	157- 6	197	1910	MC1910F	MOTA	GATE	67- 41
88	1078	SAB1078AP	PHIN	FREQ DIVID	157- 7	198	1910	MC1910L	MOTA	GATE	67- 42
89	1078	SAB1078D	PHIN	FREQ DIVID	157- 4	199	1911	MC1911F	MOTA	GATE	67- 43
90	1078	SAB1078P	PHIN	FREQ DIVID	157- 5	200	1911	MC1911L	MOTA	GATE	67- 44
91	1164	SAB1164(A)	PHIN	FREQ DIVID	156- 9	201	1912	MC1912F	MOTA	GATE	70- 63
92	1201	GZF1201P	MULB	COUNTER	136- 79	202	1912	MC1912L	MOTA	GATE	70- 64
93	1201	GZF1201P	PHIN	COUNTER	136- 79	203	1912	PC1912B	MOTA	WDC FREQ DIVID	156- 1
94	1202	GZF1202P	MULB	SPECIAL	184- 81	204	1912	PC1912F	MOTA	WDC FREQ DIVID	156- 2
95	1202	GZF1202P	PHIN	SPECIAL	184- 81	205	1914	MC1914F	MOTA	LATCHES	176- 43
96	1256	SAB1256(A)	PHIN	FREQ DIVID	156- 10	206	1914	MC1914L	MOTA	LATCHES	176- 44
97	1422	MC1422P1	MOTA	TIME DELAY	122- 5	207	1918	MC1918F	MOTA	GATE	68- 9
98	1455	MC1455G	MOTA	TIME DELAY	127- 31	208	1918	MC1918L	MOTA	GATE	68- 10
99	1455	MC1455P1	MOTA	TIME DELAY	127- 32	209	1941	BR1941L	MOTA	WDC FREQ DIVID	157- 94
100	1455	MC1455U	MOTA	TIME DELAY	127- 33	210	2010	ZN2010E	MOTA	FERB TIME DELAY	127- 25
101	1534	SA1534	SIC	FREQ DIVID	157- 13	211	2010	ZN2010F	MOTA	FERB TIME DELAY	127- 26
102	1534	SAF1534E	PHIN	FREQ DIVID	157- 77	212	2101	SDA2101	MOTA	SIEG FREQ DIVID	157- 40
103	1534	SAF1534E	RTCF	FREQ DIVID	157- 77	213	2143	WD2143L01	MOTA	WDC CLOCK/MV	154- 9
104	1555	uPC1555C	NECJ	TIME DELAY	128- 5	214	2143	WD2143M01	MOTA	WDC CLOCK/MV	154- 10
105	1555	MC1555G	MOTA	TIME DELAY	127- 34	215	2143	CP2143	MOTA	WDC CLOCK/MV	155- 4
106	1555	MC1555U	MOTA	TIME DELAY	127- 35	216	2200	XR2200	MOTA	EXR SPECIAL	183- 86
107	1648	MC1648F#1	MOTA	CLOCK/MV	154- 75	217	2240	uA2240CJ	MOTA	TII TIME DELAY	127- 87
108	1648	MC1648F#2	MOTA	CLOCK/MV	154- 76	218	2240	uA2240CN	MOTA	TII TIME DELAY	127- 88
109	1648	MC1648LP#1%	MOTA	CLOCK/MV	154- 77	219	2240	uA2240DC	MOTA	FSC TIME DELAY	127- 89
110	1648	MC1648LP#2%	MOTA	CLOCK/MV	154- 78	220	2240	uA2240DM			

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1	2240	uA2240MJ	TIJ	TIME DELAY	127- 91	111	3216	LM3216	TSAJ	FREQ DIVID	157- 99
2	2240	uA2240PC	FSC	TIME DELAY	127- 92	112	3280	SP3280A	MULB	COUNTER	151- 38
3	2240	XR2240CN#1	EXR	TIME DELAY	127- 93	113	3280	SP3280A	PHIN	COUNTER	151- 38
4	2240	XR2240CN#2	EXR	CLOCK/MV	154- 97	114	3281	SP3281A	MULB	COUNTER	151- 39
5	2240	XR2240CP#1	EXR	TIME DELAY	127- 94	115	3281	SP3281A	PHIN	COUNTER	151- 39
6	2240	XR2240CP#2	EXR	CLOCK/MV	154- 98	116	3307	MN3307	MATJ	TIME DELAY	123- 17
7	2240	XR2240M#1	EXR	TIME DELAY	127- 95	117	3393	MC3393P	MOTA	FREQ DIVID	158- 1
8	2240	XR2240M#2	EXR	CLOCK/MV	154- 99	118	3396	MC3396P	MOTA	FREQ DIVID	156- 6
9	2240	XR2240N#1	EXR	TIME DELAY	127- 96	119	3404	P3404	ITL	LATCHES	179- 35
10	2240	XR2240N#2	EXR	CLOCK/MV	154-100	120	3404	D3404	ITL	LATCHES	179- 34
11	2240	XR2240P#1	EXR	TIME DELAY	127- 97	121	3456	MC3456L#1	MOTA	CLOCK/MV	154-102
12	2240	XR2240P#2	EXR	CLOCK/MV	154-101	122	3456	MC3456L#2	MOTA	TIME DELAY	127- 29
13	2242	XR2242CN#1	EXR	TIME DELAY	127- 82	123	3456	MC3456P#1	MOTA	CLOCK/MV	154-103
14	2242	XR2242CN#2	EXR	CLOCK/MV	154- 2	124	3456	MC3456P#2	MOTA	TIME DELAY	127- 30
15	2242	XR2242CP#1	EXR	TIME DELAY	127- 83	125	3482	MC3482AL	MOTA	LATCHES	180- 52
16	2242	XR2242CP#2	EXR	CLOCK/MV	154- 3	126	3482	MC3482BL	MOTA	LATCHES	180- 24
17	2242	XR2242M#1	EXR	TIME DELAY	127- 84	127	3556	MC3556L#1	MOTA	CLOCK/MV	154-104
18	2242	XR2242M#2	EXR	CLOCK/MV	154- 4	128	3556	MC3556L#2	MOTA	TIME DELAY	127- 41
19	2243	XR2243CN#ai	EXR	TIME DELAY	127- 85	129	3905	LM3905N	NSC	TIME DELAY	124-100
20	2243	XR2243CP#ai	EXR	TIME DELAY	127- 86	130	4000	HCC4000BD	SGAI	GATE	61- 79
21	2271	XR2271CN	EXR	SPECIAL	184- 33	131	4000	HCC4000BF	SGAI	GATE	61- 80
22	2271	XR2271CP	EXR	SPECIAL	184- 34	132	4000	HCC4000BK	SGAI	GATE	61- 81
23	2272	XR2272CN	EXR	SPECIAL	184- 7	133	4000	TC4000BP	TOSJ	GATE	75- 2
24	2272	XR2272CP	EXR	SPECIAL	184- 8	134	4000	HCF4000BE	SGAI	GATE	61- 82
25	2501	AM2501DC	AMD	COUNTER	153- 4	135	4000	HCF4000BF	SGAI	GATE	61- 83
26	2501	AM2501DM	AMD	COUNTER	153- 5	136	4000	SCL4000B	SSS	GATE	61- 78
27	2505	AM2505DC	AMD	MULTIPLIER	163- 33	137	4000	HEF4000	RTCF	GATE	61- 84
28	2505	AM2505DM	AMD	MULTIPLIER	163- 34	138	4000	HEF4000B	VALG	GATE	61- 77
29	2505	AM2505FM	AMD	MULTIPLIER	163- 35	139	4000	HEF4000BDF	SIC	GATE	61- 85
30	2505	AM2505PC	AMD	MULTIPLIER	163- 36	140	4000	HEF4000BPN	SIC	GATE	61- 86
31	2506	AM2506DC	AMD	ALLU	169- 17	141	4000	HEF4000BTD	SIC	GATE	61- 87
32	2506	AM2506DM	AMD	ALLU	169- 18	142	4000	CD4000AD	RCA	GATE	60- 26
33	2506	AM2506FM	AMD	ALLU	169- 19	143	4000	CD4000AE	RCA	GATE	60- 27
34	2506	AM2506PC	AMD	ALLU	169- 20	144	4000	CD4000AF	RCA	GATE	60- 2
35	2556	XR2556CN#1	EXR	TIME DELAY	127- 39	145	4000	CD4000BD	RCA	GATE	61- 67
36	2556	XR2556CN#2	EXR	CLOCK/MV	154- 92	146	4000	CD4000BE	RCA	GATE	61- 68
37	2556	XR2556CP#1	EXR	TIME DELAY	127- 40	147	4000	CD4000BF	RCA	GATE	61- 69
38	2556	XR2556CP#2	EXR	CLOCK/MV	154- 93	148	4000	CD4000CJ	NSC	GATE	61- 70
39	2556	XR2556M#1	EXR	TIME DELAY	127- 42	149	4000	CD4000CN	NSC	GATE	61- 71
40	2556	XR2556M#2	EXR	CLOCK/MV	154- 94	150	4000	CD4000MJ	NSC	GATE	61- 72
41	2600	AM2600DC	AMD	TIME DELAY	125- 15	151	4000	CD4000MW	NSC	GATE	61- 73
42	2600	AM2600DM	AMD	TIME DELAY	125- 1	152	4000	CD4000UBD	RCA	GATE	61- 74
43	2600	AM2600FM	AMD	TIME DELAY	125- 2	153	4000	CD4000UBE	RCA	GATE	61- 75
44	2600	AM2600PC	AMD	TIME DELAY	125- 16	154	4000	CD4000UBF	RCA	GATE	61- 76
45	2600	S2600	AMI	SPECIAL	185- 2	155	4000	MC4000F	MOTA	DECODER	121- 20
46	2601	S2601	AMI	SPECIAL	185- 3	156	4000	MC4000L	MOTA	DECODER	121- 21
47	2602	AM2602DC	AMD	TIME DELAY	125- 17	157	4000	MC4000P	MOTA	DECODER	121- 22
48	2602	AM2602DM	AMD	TIME DELAY	125- 3	158	4000	HBC4000AD	SGAI	GATE	60- 33
49	2602	AM2602FM	AMD	TIME DELAY	125- 4	159	4000	HBC4000AF	SGAI	GATE	60- 34
50	2602	AM2602PC	AMD	TIME DELAY	125- 18	160	4000	HBC4000AK	SGAI	GATE	60- 35
51	2602	S2602	AMI	SPECIAL	185- 4	161	4000	CM4000AD	SOD	GATE	55- 16
52	2603	S2603	AMI	SPECIAL	185- 5	162	4000	CM4000AE	SOD	GATE	55- 17
53	2608	TDB2608DP#ai	THEF	TIME DELAY	124- 41	163	4000	HBF4000AE	SGAI	GATE	60- 45
54	2608	TDE2608DP#ai	THEF	TIME DELAY	124- 42	164	4000	HBF4000AF	SGAI	GATE	60- 46
55	2621	2621	SIC	SPECIAL	182- 27	165	4001	HCC4001BD	SGAI	GATE	60- 94
56	2622	2622	SIC	SPECIAL	182- 28	166	4001	HCC4001BF	SGAI	GATE	60- 95
57	2902	IDM2902JC	NSC	CARRY GEN	170- 4	167	4001	HCC4001BK	SGAI	GATE	60- 96
58	2902	IDM2902JM	NSC	CARRY GEN	170- 5	168	4001	MSM4001	OKIJ	GATE	59- 53
59	2902	IDM2902NC	NSC	CARRY GEN	170- 6	169	4001	MSM4001RS	OKIJ	GATE	58- 90
60	2905	LM2905N	NSC	TIME DELAY	124- 99	170	4001	TC4001BP	TOSJ	GATE	61- 43
61	2920-18	2920-18	ITL	SPECIAL	182- 11	171	4001	TC4001BUP	TOSJ	GATE	61- 44
62	3000	RED3000/3600	LSC	FREQ DIVID	156- 74	172	4001	HCF4001BE	SGAI	GATE	60-103
63	3001	MC3001L,P%	MOTA	GATE	81- 27	173	4001	HCF4001BF	SGAI	GATE	60-104
64	3002	MC3002L,P%	MOTA	GATE	93- 36	174	4001	SCL4001B	SSS	GATE	59- 69
65	3003	MN3003	MATJ	TIME DELAY	123- 32	175	4001	SCL4001UB	SSS	GATE	59- 70
66	3004	MN3004	MATJ	TIME DELAY	123- 33	176	4001	HEF4001	RTCF	GATE	60-109
67	3005	MN3005	MATJ	TIME DELAY	123- 34	177	4001	HEF4001BDF	SIC	GATE	60-110
68	3006	MN3006	MATJ	TIME DELAY	123- 35	178	4001	HEF4001BPN	SIC	GATE	61- 1
69	3007	MN3007	MATJ	TIME DELAY	123- 36	179	4001	HEF4001BTD	SIC	GATE	61- 2
70	3008	MN3008	MATJ	TIME DELAY	123- 37	180	4001	HEF4001P	MULB	GATE	59- 47
71	3009	MN3009	MATJ	TIME DELAY	123- 38	181	4001	HEF4001P	PHIN	GATE	59- 47
72	3010	MN3010	MATJ	TIME DELAY	123- 39	182	4001	HEF4001P	VALG	GATE	59- 47
73	3011	MN3011	MATJ	TIME DELAY	123- 31	183	4001	HEF4001U	RTCF	GATE	61- 3
74	3012	MN3012	MATJ	TIME DELAY	123- 40	184	4001	HEF4001UBDF	SIC	GATE	61- 4
75	3021	MC3021L,P%	MOTA	GATE	113- 8	185	4001	HEF4001UBPN	SIC	GATE	61- 5
76	3022	MC3022L,P%	MOTA	GATE	115- 20	186	4001	HEF4001UBTD	SIC	GATE	61- 6
77	3025	MC3025L,P%	MOTA	GATE	108- 98	187	4001	CD4001AD	RCA	GATE	60- 28
78	3026	MC3026L,P%	MOTA	GATE	81- 32	188	4001	CD4001AE	BELI	GATE	60- 29
79	3060	MC3060L,P%	MOTA	FLIP FLOP	54- 49	189	4001	CD4001AF	RCA	GATE	60- 29
80	3061	MC3061L,P%	MOTA	FLIP FLOP	47- 54	190	4001	CD4001AF	BELI	GATE	60- 3
81	3062	MC3062L,P%	MOTA	FLIP FLOP	47- 55	191	4001	CD4001AF	RCA	GATE	60- 3
82	3101	MN3101	MATJ	SPECIAL	182- 41	192	4001	CD4001BCJ	NSC	GATE	60- 86
83	3101	MC3101F	MOTA	GATE	81- 28	193	4001	CD4001BCN	NSC	GATE	60- 87
84	3101	MC3101L	MOTA	GATE	81- 29	194	4001	CD4001BD	RCA	GATE	61- 54
85	3102	MN3102	MATJ	SPECIAL	182- 42	195	4001	CD4001BE	RCA	GATE	61- 55
86	3102	MC3102F	MOTA	GATE	93- 37	196	4001	CD4001BF	RCA	GATE	61- 56
87	3102	MC3102L	MOTA	GATE	93- 38	197	4001	CD4001BMJ	NSC	GATE	60- 88
88	3105	MN3105	MATJ	SPECIAL	182- 43	198	4001	CD4001BMW	NSC	GATE	60- 89
89	3121	MC3121F	MOTA	GATE	113- 6	199	4001	CD4001CJ	NSC	GATE	60- 4
90	3121	MC3121L	MOTA	GATE	113- 7	200	4001	CD4001CN	NSC	GATE	60- 5
91	3122	MC3122F	MOTA	GATE	115- 18	201	4001	CD4001MJ	NSC	GATE	60- 6
92	3122	MC3122L	MOTA	GATE	115- 19	202	4001	CD4001MW	NSC	GATE	60- 7
93	3126	MC3126F	MOTA	GATE	81- 30	203	4001	CD4001UBD	RCA	GATE	55- 13
94	3126	MC3126L	MOTA	GATE	81- 31	204	4001	CD4001UBE	RCA	GATE	55- 14
95	3160	MC3160F	MOTA	FLIP FLOP	54- 41	205	4001	CD4001UBF	RCA	GATE	55- 15
96	3160	MC3160L	MOTA	FLIP FLOP	54- 42	206	4001	MC4001P#1	MOTA	DECODER	119- 10
97	3161	MC3161F	MOTA	FLIP FLOP	47- 49	207	4001	MC4001P#2	MOTA	DECODER	118- 9
98	3161	MC3161L	MOTA	FLIP FLOP	47- 50	208	4001	4001BDC	FSC	GATE	60- 66
99	3162	MC3162F	MOTA	FLIP FLOP	47- 51	209	4001	4001BDM	FSC	GATE	60- 67
100	3162	MC3162L	MOTA	FLIP FLOP	47- 52	210	4001	4001BFC	FSC	GATE	60- 68
101	3179	CA3179G	RCA	FREQ DIVID	158- 3	211	4001	4001BFM	FSC	GATE	60- 69
102	3199	CA3199E	RCA	SPECIAL	183- 87	212	4001	4001BPC	FSC	GATE	60- 70
103	3204	MN3204	MATJ	TIME DELAY	123- 18	213	4001	LC4001B	TSAJ	GATE	93- 39
104	3205	P3205	ITL	DECODER	118- 77	214	4001	LC4001BM	TSAJ	GATE	58- 81
105	3205	D3205	ITL	DECODER	118- 42	215	4001	HBC4001AD	SGAI	GATE	60- 36
106	3206	MN3206	MATJ	TIME DELAY	123- 19	216	4001	HBC4001AF	SGAI	GATE	60- 37
107	3207	MN3207#	MATJ	TIME DELAY	123- 20	217	4001	HBC4001AK	SGAI	GATE	60- 38
108	3209	MN3209	MATJ	TIME DELAY	123- 21	218	4001	CM4001AD	SOD	GATE	55- 18
109	3210	MN3210	MATJ	TIME DELAY	123- 22	219	4001	CM4001AE	SOD	GATE	55- 19
110	3211	CA3211E	RCA	SPECIAL	183- 88	220	4001				

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1	4001	HBF4001AF	SGAI	GATE	60-48	111	4011	TC4011UBP	TOSJ	GATE	64-84
2	4001	M4001BP	MITJ	GATE	61-19	112	4011	HCF4011BE	SGAI	GATE	64-18
3	4002	HCC4002BD	SGAI	GATE	60-97	113	4011	HCF4011BF	SGAI	GATE	64-19
4	4002	HCC4002BF	SGAI	GATE	60-98	114	4011	SCL4011B	SSS	GATE	63-25
5	4002	HCC4002BK	SGAI	GATE	60-99	115	4011	SCL4011UB	SSS	GATE	63-26
6	4002	MSM4002	OKIJ	GATE	59-54	116	4011	HEF4011	RTCF	GATE	64-24
7	4002	MSM4002RS	OKIJ	GATE	58-91	117	4011	HEF4011BDF	SIC	GATE	64-25
8	4002	TC4002BP	TOSJ	GATE	61-45	118	4011	HEF4011BPN	SIC	GATE	64-26
9	4002	HCF4002BE	SGAI	GATE	60-105	119	4011	HEF4011BTD	SIC	GATE	64-27
10	4002	HCF4002BF	SGAI	GATE	60-106	120	4011	HEF4011P	MULB	GATE	62-77
11	4002	SCL4002B	SGAI	GATE	59-71	121	4011	HEF4011P	PHIN	GATE	62-77
12	4002	HEF4002	RTCF	GATE	61-7	122	4011	HEF4011P	VALG	GATE	62-77
13	4002	HEF4002BDF	SIC	GATE	61-8	123	4011	HEF4011U	RTCF	GATE	64-28
14	4002	HEF4002BPN	SIC	GATE	61-9	124	4011	HEF4011UBDF	SIC	GATE	64-29
15	4002	HEF4002BTD	SIC	GATE	61-10	125	4011	HEF4011UBPN	SIC	GATE	64-30
16	4002	HEF4002P	MULB	GATE	59-48	126	4011	HEF4011UBTD	SIC	GATE	64-31
17	4002	HEF4002P	PHIN	GATE	59-48	127	4011	CD4011AD	RCA	GATE	63-52
18	4002	HEF4002P	VALG	GATE	59-48	128	4011	CD4011AE	BELI	GATE	63-53
19	4002	CD4002AD	RCA	GATE	60-30	129	4011	CD4011AE	RCA	GATE	63-53
20	4002	CD4002AE	RCA	GATE	60-31	130	4011	CD4011AF	BELI	GATE	63-31
21	4002	CD4002AF	RCA	GATE	60-8	131	4011	CD4011AF	RCA	GATE	63-31
22	4002	CD4002BD	RCA	GATE	59-63	132	4011	CD4011BCJ	NSC	GATE	64-1
23	4002	CD4002BE	RCA	GATE	59-64	133	4011	CD4011BCN	NSC	GATE	64-2
24	4002	CD4002BF	RCA	GATE	59-65	134	4011	CD4011BD	RCA	GATE	64-89
25	4002	CD4002CJ	NSC	GATE	60-9	135	4011	CD4011BE	RCA	GATE	64-90
26	4002	CD4002CN	NSC	GATE	60-10	136	4011	CD4011BF	RCA	GATE	64-91
27	4002	CD4002MJ	NSC	GATE	60-11	137	4011	CD4011BMJ	NSC	GATE	64-3
28	4002	CD4002MW	NSC	GATE	60-12	138	4011	CD4011BMW	NSC	GATE	64-4
29	4002	CD4002UBD	RCA	GATE	61-48	139	4011	CD4011CJ	NSC	GATE	63-32
30	4002	CD4002UBE	RCA	GATE	61-49	140	4011	CD4011CN	NSC	GATE	63-33
31	4002	CD4002UBF	RCA	GATE	61-50	141	4011	CD4011MJ	NSC	GATE	63-34
32	4002	MC4002F	MOTA	DECODER	121-23	142	4011	CD4011MW	NSC	GATE	63-35
33	4002	MC4002L	MOTA	DECODER	121-24	143	4011	CD4011UBD	RCA	GATE	64-66
34	4002	MC4002P	MOTA	DECODER	121-25	144	4011	CD4011UBE	RCA	GATE	64-67
35	4002	4002A	MULB	GATE	59-51	145	4011	CD4011UBF	RCA	GATE	64-68
36	4002	4002A	PHIN	GATE	59-51	146	4011	4011A	MULB	GATE	63-4
37	4002	4002BDC	FSC	GATE	60-71	147	4011	4011A	PHIN	GATE	63-4
38	4002	4002BDM	FSC	GATE	60-72	148	4011	4011BDC	FSC	GATE	63-91
39	4002	4002BFC	FSC	GATE	60-73	149	4011	4011BDM	FSC	GATE	63-92
40	4002	4002BFM	FSC	GATE	60-74	150	4011	4011BFC	FSC	GATE	63-93
41	4002	4002BPC	FSC	GATE	60-75	151	4011	4011BFM	FSC	GATE	63-94
42	4002	HBC4002AD	SGAI	GATE	60-39	152	4011	4011BPC	FSC	GATE	63-95
43	4002	HBC4002AF	SGAI	GATE	60-40	153	4011	LC4011B	TSAJ	GATE	108-107
44	4002	HBC4002AK	SGAI	GATE	60-41	154	4011	LC4011BM	TSAJ	GATE	62-10
45	4002	CM4002AD	SOD	GATE	55-20	155	4011	HBC4011AD	SGAI	GATE	63-58
46	4002	CM4002AE	SOD	GATE	55-21	156	4011	HBC4011AF	SGAI	GATE	63-59
47	4002	HBF4002AE	SGAI	GATE	60-49	157	4011	HBC4011AK	SGAI	GATE	63-60
48	4002	HBF4002AF	SGAI	GATE	60-50	158	4011	CM4011AD	SOD	GATE	55-29
49	4002	M4002BP	MITJ	GATE	61-20	159	4011	CM4011AE	SOD	GATE	55-30
50	4006	MC4006L,P%	MOTA	DECODER	118-65	160	4011	HBF4011AE	SGAI	GATE	63-67
51	4007	MSM4007RS	OKIJ	GATE	66-25	161	4011	HBF4011AF	SGAI	GATE	63-68
52	4007	CD4007AD	RCA	GATE	66-39	162	4011	M4011BP	MITJ	GATE	64-45
53	4007	CD4007AE	RCA	GATE	66-40	163	4011	M4011UBP	MITJ	GATE	64-65
54	4007	CD4007AF	RCA	GATE	66-41	164	4012	HCC4012BD	SGAI	GATE	64-12
55	4007	CD4007C	NSC	GATE	66-48	165	4012	HCC4012BF	SGAI	GATE	64-13
56	4007	CD4007M	NSC	GATE	66-49	166	4012	HCC4012BK	SGAI	GATE	64-14
57	4007	CD4007UBD	RCA	GATE	66-29	167	4012	MSM4012	OKIJ	GATE	63-8
58	4007	CD4007UBE	RCA	GATE	66-30	168	4012	MSM4012RS	OKIJ	GATE	62-26
59	4007	CD4007UBF	RCA	GATE	66-31	169	4012	TC4012BP	TOSJ	GATE	64-85
60	4007	MC4007L	MOTA	DECODER	118-66	170	4012	HCF4012BE	SGAI	GATE	64-20
61	4007	MC4007P	MOTA	DECODER	118-67	171	4012	HCF4012BF	SGAI	GATE	64-21
62	4008	HCC4008BD	SGAI	ADDER	159-69	172	4012	SCL4012B	SSS	GATE	63-27
63	4008	HCC4008BF	SGAI	ADDER	159-70	173	4012	HEF4012	RTCF	GATE	64-32
64	4008	HCC4008BK	SGAI	ADDER	159-71	174	4012	HEF4012BDF	SIC	GATE	64-33
65	4008	MSM4008	OKIJ	ADDER	159-95	175	4012	HEF4012BPN	SIC	GATE	64-34
66	4008	MSM4008RS	OKIJ	ADDER	160-6	176	4012	HEF4012BTD	SIC	GATE	64-35
67	4008	TC4008BP	TOSJ	ADDER	159-79	177	4012	HEF4012P	MULB	GATE	63-1
68	4008	HCF4008BE	SGAI	ADDER	159-72	178	4012	HEF4012P	PHIN	GATE	63-1
69	4008	HCF4008BF	SGAI	ADDER	159-73	179	4012	HEF4012P	VALG	GATE	63-1
70	4008	SCL4008B	SSS	ADDER	159-50	180	4012	CD4012AD	RCA	GATE	63-54
71	4008	HEF4008	RTCF	ADDER	159-51	181	4012	CD4012AE	BELI	GATE	63-55
72	4008	HEF4008B	VALG	ADDER	160-5	182	4012	CD4012AE	RCA	GATE	63-55
73	4008	HEF4008BDF	SIC	ADDER	159-2	183	4012	CD4012AF	BELI	GATE	63-36
74	4008	HEF4008BPN	SIC	ADDER	159-3	184	4012	CD4012AF	RCA	GATE	63-36
75	4008	HEF4008BTD	SIC	ADDER	159-1	185	4012	CD4012BD	RCA	GATE	63-19
76	4008	HEF4008P	MULB	ADDER	160-3	186	4012	CD4012BE	RCA	GATE	63-20
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78	4008	HEF4008P	VALG	ADDER	160-3	188	4012	CD4012CJ	NSC	GATE	63-37
79	4008	CD4008AD	RCA	ADDER	159-89	189	4012	CD4012CN	NSC	GATE	63-38
80	4008	CD4008AE	RCA	ADDER	159-99	190	4012	CD4012MJ	NSC	GATE	63-39
81	4008	CD4008AF	RCA	ADDER	159-90	191	4012	CD4012MW	NSC	GATE	63-40
82	4008	CD4008BCJ	NSC	ADDER	159-59	192	4012	CD4012UBD	RCA	GATE	64-69
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84	4008	CD4008BD	RCA	ADDER	159-66	194	4012	CD4012UBF	RCA	GATE	64-71
85	4008	CD4008BE	RCA	ADDER	159-67	195	4012	4012A	MULB	GATE	63-5
86	4008	CD4008BF	RCA	ADDER	159-68	196	4012	4012A	PHIN	GATE	63-5
87	4008	CD4008BMJ	NSC	ADDER	159-61	197	4012	4012BDC	FSC	GATE	63-96
88	4008	CD4008BMW	NSC	ADDER	159-62	198	4012	4012BDM	FSC	GATE	63-97
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90	4008	MC4008P	MOTA	PARITY	172-70	200	4012	4012BFM	FSC	GATE	63-99
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93	4008	4008BFC	FSC	ADDER	159-54	203	4012	HBC4012AD	SGAI	GATE	63-61
94	4008	4008BFM	FSC	ADDER	159-55	204	4012	HBC4012AF	SGAI	GATE	63-62
95	4008	4008BPC	FSC	ADDER	159-56	205	4012	HBC4012AK	SGAI	GATE	63-63
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98	4008	HBC4008AK	SGAI	ADDER	159-94	208	4012	HBF4012AE	SGAI	GATE	63-69
99	4008	CM4008AD	SOD	ADDER	159-91	209	4012	HBF4012AF	SGAI	GATE	63-70
100	4008	CM4008AE	SOD	ADDER	159-100	210	4012	M4012BP	MITJ	GATE	64-46
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102	4008	HBF4008AF	SGAI	ADDER	159-102	212	4013	HCC4013BF	SGAI	FLIP FLOP	35-80
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50	4017	HEF4017P	MULB	COUNTER	136- 33	160	4020	CD4020BMJ	NSC	COUNTER	132- 12
51	4017	HEF4017P	PHIN	COUNTER	136- 33	161	4020	CD4020BMW	NSC	COUNTER	132- 13
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59	4017	CD4017BE	RCA	COUNTER	137- 89	169	4020	HBC4020AK	SGAI	COUNTER	133- 3
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21	4042	HEF4042P	PHIN	LATCHES	175- 6	131	4045	CD4045BD	RCA	TIME DELAY	122- 54
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105	4044	CD4044AF	RCA	LATCHES	174- 24	215	4060	HCC4060BD	SGAI	COUNTER	134- 68
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36	4068	HCF4068BF	SGAI	GATE	63- 77	146	4073	HCC4073BF	SGAI	GATE	55- 68
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39	4068	HEF4068BDF	SIC	GATE	64- 41	149	4073	HCF4073BE	SGAI	GATE	55- 76
40	4068	HEF4068BPN	SIC	GATE	64- 42	150	4073	HCF4073BF	SGAI	GATE	55- 77
41	4068	HEF4068BTD	SIC	GATE	64- 43	151	4073	SCL4073B	SSS	GATE	55- 64
42	4068	HEF4068P	MULB	GATE	63- 3	152	4073	HEF4073	RTCF	GATE	56- 10
43	4068	HEF4068P	PHIN	GATE	63- 3	153	4073	HEF4073B	VALG	GATE	55- 62
44	4068	HEF4068P	VALG	GATE	63- 3	154	4073	HEF4073BDF	SIC	GATE	56- 11
45	4068	CD4068BD	RCA	GATE	64- 97	155	4073	HEF4073BPN	SIC	GATE	56- 12
46	4068	CD4068BE	RCA	GATE	64- 98	156	4073	HEF4073BTD	SIC	GATE	56- 13
47	4068	CD4068BF	RCA	GATE	64- 99	157	4073	HEF4073P	PHIN	GATE	55- 63
48	4068	4068BDC	FSC	GATE	63-106	158	4073	CD4073BCJ	NSC	GATE	55-103
49	4068	4068BDM	FSC	GATE	63-107	159	4073	CD4073BCN	NSC	GATE	55-104
50	4068	4068BFC	FSC	GATE	63-108	160	4073	CD4073BD	RCA	GATE	55-105
51	4068	4068BFM	FSC	GATE	63-109	161	4073	CD4073BE	RCA	GATE	55-106
52	4068	4068BPC	FSC	GATE	63-110	162	4073	CD4073BF	RCA	GATE	55-107
53	4069	MSM4069RS	OKIJ	GATE	66- 28	163	4073	CD4073BMJ	NSC	GATE	55-108
54	4069	SCL4069UB	SSS	GATE	66- 46	164	4073	CD4073BMW	NSC	GATE	55-109
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56	4069	HEF4069UBPN	SIC	GATE	66- 20	166	4073	4073BDM	FSC	GATE	55- 89
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58	4069	CD4069C	NSC	GATE	66- 42	168	4073	4073BFM	FSC	GATE	55- 91
59	4069	CD4069M	NSC	GATE	66- 43	169	4073	4073BPC	FSC	GATE	55- 92
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61	4069	CD4069UBE	RCA	GATE	66- 33	171	4075	HCC4075BD	SGAI	GATE	57- 99
62	4069	CD4069UBF	RCA	GATE	66- 34	172	4075	HCC4075BF	SGAI	GATE	57-100
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64	4069	LC4069UBM	TSAJ	GATE	66- 36	174	4075	MSM4075	OKIJ	GATE	57- 83
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68	4070	HCF4070BE	SGAI	GATE	65- 29	178	4075	SCL4075B	SSS	GATE	57- 92
69	4070	HCF4070BF	SGAI	GATE	65- 30	179	4075	HEF4075	RTCF	GATE	58- 48
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79	4070	CD4070BD	RCA	GATE	65- 57	189	4075	CD4075BMJ	NSC	GATE	58- 38
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4	4077	4077BPC	FSC	GATE	65-101	114	4086	MSM4086	OKIJ	GATE	57- 10
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7	4078	HCC4078BF	SGAI	GATE	60- 54	117	4086	HCF4086BE	SGAI	GATE	57- 21
8	4078	HCC4078BK	SGAI	GATE	60- 55	118	4086	HCF4086BF	SGAI	GATE	57- 22
9	4078	MSM4078	OKIJ	GATE	59- 56	119	4086	SCL4086B	SSS	GATE	56- 53
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45	4081	HEF4081P	PHIN	GATE	55- 55	155	4095	HCC4095BF	SGAI	FLIP FLOP	34- 48
46	4081	HEF4081P	VALG	GATE	55- 55	156	4095	HCC4095BK	SGAI	FLIP FLOP	34- 49
47	4081	CD4081BCJ	NSC	GATE	55-110	157	4095	HCF4095BE	SGAI	FLIP FLOP	34- 53
48	4081	CD4081BCN	NSC	GATE	56- 1	158	4095	HCF4095BF	SGAI	FLIP FLOP	34- 54
49	4081	CD4081BD	RCA	GATE	56- 2	159	4095	CD4095BD	RCA	FLIP FLOP	35- 34
50	4081	CD4081BE	RCA	GATE	56- 3	160	4095	CD4095BE	RCA	FLIP FLOP	35- 35
51	4081	CD4081BF	RCA	GATE	56- 4	161	4095	CD4095BF	RCA	FLIP FLOP	35- 36
52	4081	CD4081BMJ	NSC	GATE	56- 5	162	4096	HCC4096BD	SGAI	FLIP FLOP	34- 50
53	4081	CD4081BMW	NSC	GATE	56- 6	163	4096	HCC4096BF	SGAI	FLIP FLOP	34- 51
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56	4081	4081BDC	FSC	GATE	55- 93	166	4096	HCF4096BF	SGAI	FLIP FLOP	34- 56
57	4081	4081BDM	FSC	GATE	55- 94	167	4096	CD4096BD	RCA	FLIP FLOP	35- 37
58	4081	4081BFC	FSC	GATE	55- 95	168	4096	CD4096BE	RCA	FLIP FLOP	35- 38
59	4081	4081BFM	FSC	GATE	55- 96	169	4096	CD4096BF	RCA	FLIP FLOP	35- 39
60	4081	4081BPC	FSC	GATE	55- 97	170	4098	HCC4098BD	SGAI	TIME DELAY	122- 10
61	4082	M4082BP	MITJ	GATE	56- 25	171	4098	HCC4098BF	SGAI	TIME DELAY	122- 11
62	4082	HCC4082BD	SGAI	GATE	55- 73	172	4098	HCC4098BK	SGAI	TIME DELAY	122- 12
63	4082	HCC4082BF	SGAI	GATE	55- 74	173	4098	HCF4098BE	SGAI	TIME DELAY	122- 13
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66	4082	MSM4082RS	OKIJ	GATE	55- 51	176	4098	CD4098BE	RCA	TIME DELAY	122- 21
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69	4082	HCF4082BF	SGAI	GATE	55- 81	179	4099	HCC4099BD	SGAI	LATCHES	175-106
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74	4082	HEF4082BTD	SIC	GATE	56- 21	184	4099	HCF4099BF	SGAI	LATCHES	175-110
75	4082	HEF4082P	MULB	GATE	55- 56	185	4099	SCL4099B	SSS	LATCHES	176- 8
76	4082	HEF4082P	PHIN	GATE	55- 56	186	4099	CD4099BCJ	NSC	LATCHES	176- 9
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79	4082	CD4082BE	RCA	GATE	56- 8	189	4099	CD4099BE	RCA	LATCHES	176- 12
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82	4082	4082BDC	FSC	GATE	55- 98	192	4099	CD4099BMW	NSC	LATCHES	176- 15
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94	4085	HCF4085BF	SGAI	GATE	57- 20	204	4123	SFC4123E	THEF	TIME DELAY	124- 64
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99	4085	HEF4085BTD	SIC	GATE	57- 42	209	4154	SFC4154EM	THEF	DECODER	120- 81
100	4085	HEF4085P	MULB	GATE	57- 8	210	4154	SFC4154ET	THEF	DECODER	120- 82
101	4085	HEF4085P	PHIN	GATE	57- 8	211	4155	SFC4155E	THEF	DECODER	118- 80
102	4085	HEF4085P	VALG	GATE	57- 8	212	4155	SFC4155EM	THEF	DECODER	118- 81
103	4085	CD4085BD	RCA	GATE	57- 33	213	4155	SFC4155ET	THEF	DECODER	118- 82
104	4085	CD4085BE	RCA	GATE	57- 34	214	4156	SFC4156E	THEF	DECODER	118- 83
105	4085	CD4085BF	RCA	GATE	57- 35	215	4156	SFC4156EM	THEF	DECODER	118- 84
106	4085	4085BDC	FSC	GATE	57- 29	216	4156	SFC4156ET	THEF	DECODER	118- 85
107	4085	4085BDM	FSC	GATE	57- 24	217	4160	SCL4160B	SSS	COUNTER	138- 27
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3	4180	SFC4180EM	THEF	PARITY GEN	172-78	113	4515	HCC4515BD	SGAI	DECODER	116-59
4	4180	SFC4180ET	THEF	PARITY GEN	172-79	114	4515	MSM4515RS	OKIJ	DECODER	117-50
5	4180	SFC4180JM	THEF	PARITY GEN	172-80	115	4515	HCF4515BD	SGAI	DECODER	116-68
6	4180	SFC4180KM	THEF	PARITY GEN	172-81	116	4515	HCF4515BE	SGAI	DECODER	116-69
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9	4181	SFC4181EM	THEF	ALU	169-45	119	4515	CD4515BD	RCA	DECODER	116-46
10	4181	SFC4181ET	THEF	ALU	169-46	120	4515	CD4515BE	RCA	DECODER	116-47
11	4181	SFC4181JM	THEF	ALU	169-47	121	4515	CD4515BF	RCA	DECODER	116-48
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13	4182	SFC4182E	THEF	CARRY GEN	170-87	123	4515	CD4515BM	NSC	DECODER	116-50
14	4182	SFC4182EM	THEF	CARRY GEN	170-88	124	4516	M4516BP	MITJ	COUNTER	131-88
15	4182	SFC4182ET	THEF	CARRY GEN	170-89	125	4516	HCC4516BD	SGAI	COUNTER	133-77
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23	4193	SFC4193ET	THEF	COUNTER	148-23	133	4516	HEF4516	RTCF	COUNTER	134-22
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69	4538	TC4538BP	TOJSJ	TIME DELAY	122- 33	179	4724	4724BDC	FSC	LATCHES	175- 96
70	4538	HEF4538BDF	SIC	CLOCK/MV	155- 92	180	4724	4724BDM	FSC	LATCHES	175- 97
71	4538	HEF4538BPN	SIC	CLOCK/MV	155- 93	181	4724	4724BFC	FSC	LATCHES	175- 98
72	4538	HEF4538BDT	SIC	CLOCK/MV	155- 95	182	4724	4724BFM	FSC	LATCHES	175- 99
73	4538	CD4538BD	RCA	CLOCK/MV	154- 65	183	4724	4724BPC	FSC	LATCHES	175-100
74	4538	CD4538BE	RCA	CLOCK/MV	154- 66	184	4727	4727BDC	FSC	COUNTER	132- 38
75	4538	CD4538BF	RCA	CLOCK/MV	154- 67	185	4727	4727BDM	FSC	COUNTER	132- 39
76	4541	HEF4541BDF	SIC	TIME DELAY	122- 86	186	4727	4727BFC	FSC	COUNTER	132- 40
77	4541	HEF4541BPN	SIC	TIME DELAY	122- 87	187	4727	4727BFM	FSC	COUNTER	132- 41
78	4541	HEF4541BDT	SIC	TIME DELAY	122- 88	188	4727	4727BPC	FSC	COUNTER	132- 42
79	4541	CD4541BD	RCA	TIME DELAY	122- 77	189	4737	HEF4737	RTCF	COUNTER	135- 45
80	4541	CD4541BE	RCA	TIME DELAY	122- 78	190	4737	HEF4737BDF	SIC	COUNTER	136- 63
81	4541	CD4541BF	RCA	TIME DELAY	122- 79	191	4737	HEF4737BPN	SIC	COUNTER	135- 46
82	4541	CD4541BH	RCA	TIME DELAY	122- 80	192	4737	HEF4737VDF	SIC	COUNTER	136- 64
83	4555	M4555BP	MITJ	DECODER	116- 79	193	4737	HEF4737VFN	SIC	COUNTER	135- 47
84	4555	HCC4555BD	SGAI	DECODER	116- 60	194	4737	4737BDC	FSC	COUNTER	132- 43
85	4555	HCC4555BF	SGAI	DECODER	116- 61	195	4737	4737BDM	FSC	COUNTER	132- 44
86	4555	HCC4555BK	SGAI	DECODER	116- 62	196	4737	4737BFC	FSC	COUNTER	132- 45
87	4555	MSM4555RS	OKIJ	DECODER	116- 85	197	4737	4737BFM	FSC	COUNTER	132- 46
88	4555	HCF4555BE	SGAI	DECODER	116- 70	198	4737	4737BPC	FSC	COUNTER	132- 47
89	4555	HCF4555BF	SGAI	DECODER	116- 71	199	4753	HEF4753BDF	SIC	COUNTER	137-106
90	4555	SCL4555B	SSS	DECODER	116- 89	200	4753	HEF4753BPN	SIC	COUNTER	137-107
91	4555	CD4555BD	RCA	DECODER	116- 51	201	4969	LC4969	TSAJ	GATE	66- 37
92	4555	CD4555BF	RCA	DECODER	116- 52	202	5001	TC5001P	TOJSJ	COUNTER	129- 40
93	4556	M4556BP	MITJ	DECODER	116- 80	203	5002	SFF5002K	THEF	FREQ DIVID	157- 97
94	4556	HCC4556BD	SGAI	DECODER	116- 63	204	5002	SFF5002KT	THEF	FREQ DIVID	157- 98
95	4556	HCC4556BF	SGAI	DECODER	116- 64	205	5015	MM5015	NSC	SPECIAL	182- 10
96	4556	HCC4556BK	SGAI	DECODER	116- 65	206	5018	TC5018P	TOJSJ	COUNTER	131- 43
97	4556	MSM4556RS	OKIJ	DECODER	116- 86	207	5026	TC5026P	TOJSJ	COUNTER	129- 47
98	4556	HCF4556BE	SGAI	DECODER	116- 72	208	5027	TC5027P	TOJSJ	COUNTER	131- 39
99	4556	HCF4556BF	SGAI	DECODER	116- 73	209	5032	TC5032P	TOJSJ	COUNTER	130- 39
100	4556	SCL4556B	SSS	DECODER	116- 90	210	5036	TC5036P	TOJSJ	FREQ DIVID	156- 75
101	4556	CD4556BD	RCA	DECODER	116- 53	211	5037	TC5037P	TOJSJ	COUNTER	129- 41
102	4556	CD4556BE	RCA	DECODER	116- 54	212	5040	SAA5040	PHIN	SPECIAL	183- 78
103	4556	CD4556BF	RCA	DECODER	116- 55	213	5040	SAA5040A	PHIN	SPECIAL	183- 79
104	4560	TC4560BP	TOJSJ	ADDER	159- 98	214	5040	SAA5040B	PHIN	SPECIAL	183- 80
105	4572	M4572BP	MITJ	GATE	57- 65	215	5041	SAA5041	PHIN	SPECIAL	183- 81
106	4572	TC4572BP	TOJSJ	SPECIAL	183- 22	216	5042	SAA5042	PHIN	SPECIAL	183- 82
107	4581	SCL4581B	SSS	ALU	168- 8	217	5043	TC5043P	TOJSJ	TIME DELAY	123- 16
108	4582	SCL4582B	SSS	CARRY GEN	170- 18	218	5043	SAA5043	PHIN	SPECIAL	183- 83
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LINE No.	1	GENERIC NO.	2	MANUFACTURER TYPE NO.	MFR. CODE	PRODUCT CLASS	PAGE & LINE	LINE No.	1	GENERIC NO.	2	MANUFACTURER TYPE NO.	MFR. CODE	PRODUCT CLASS	PAGE & LINE
1		5045		NE5045D	VALG	DECODER	116- 1	111		5409		S5409W	VALG	GATE	80- 32
2		5045		NE5045N	VALG	DECODER	116- 2	112		5409		5409DM	FSC	GATE	77- 75
3		5046		NE5046N	VALG	DECODER	116- 3	113		5409		5409FM	FSC	GATE	75-103
4		5048		TC5048P	TOSJ	FREQ DIVID	156- 76	114		5410		DM5410J	NSC	GATE	99- 42
5		5050		NC5050	NIT	GATE	57- 58	115		5410		DM5410W	NSC	GATE	99- 43
6		5051		TC5051P	TOSJ	COUNTER	129- 42	116		5410		ZN5410E	FERR	GATE	110- 38
7		5052		TC5052P	TOSJ	COUNTER	129- 43	117		5410		ZN5410F	FERR	GATE	110- 39
8		5053		TC5053P	TOSJ	COUNTER	129- 44	118		5410		SN5410J	TII	GATE	108- 8
9		5054		TC5054P	TOSJ	COUNTER	129- 45	119		5410		SN5410W	TII	GATE	108- 9
10		5070		TC5070P	TOSJ	COUNTER	129- 55	120		5410		S5410F	MULB	GATE	105- 80
11		5071		TC5071P	TOSJ	COUNTER	129- 56	121		5410		S5410F	PHIN	GATE	105- 80
12		5072		TC5072P	TOSJ	COUNTER	129- 57	122		5410		S5410F	VALG	GATE	105- 80
13		5100		SFF5100E	THEF	SPECIAL	184- 31	123		5410		S5410W	MULB	GATE	105- 81
14		5100		SFF5100K	THEF	SPECIAL	184- 32	124		5410		S5410W	PHIN	GATE	105- 81
15		5100		NC5100	NIT	GATE	57- 59	125		5410		S5410W	VALG	GATE	105- 81
16		5150		NC5150	NIT	GATE	57- 60	126		5410		5410DM	FSC	GATE	94- 15
17		5200		NC5200	NIT	GATE	57- 61	127		5410		5410FM	FSC	GATE	110- 59
18		5201		SFF5201	THEF	SPECIAL	182- 45	128		5411		DM5411J	NSC	GATE	78- 1
19		5307		MM5307AAD	NSC	FREQ DIVID	157- 95	129		5411		S5411F	MULB	GATE	80- 33
20		5307		MM5307AAN	NSC	FREQ DIVID	157- 96	130		5411		S5411F	PHIN	GATE	80- 33
21		5320		MM5320D	NSC	SPECIAL	182- 39	131		5411		S5411F	SIC	GATE	80- 33
22		5320		MM5320N	NSC	SPECIAL	182- 40	132		5411		S5411F	VALG	GATE	80- 33
23		5350		NC5350	NIT	GATE	57- 62	133		5411		S5411W	MULB	GATE	80- 34
24		5369		MM5369N	NSC	FREQ DIVID	156- 28	134		5411		S5411W	PHIN	GATE	80- 34
25		5400		DM5400J	NSC	GATE	99- 37	135		5411		S5411W	SIC	GATE	80- 34
26		5400		DM5400W	NSC	GATE	99- 38	136		5411		S5411W	VALG	GATE	80- 34
27		5400		ZN5400E	FERR	GATE	110- 34	137		5411		5411DM	FSC	GATE	75-104
28		5400		ZN5400F	FERR	GATE	110- 35	138		5411		5411FM	FSC	GATE	81- 73
29		5400		SN5400J	TII	GATE	108- 2	139		5412		ZN5412E	FERR	GATE	108- 63
30		5400		SN5400W	TII	GATE	108- 3	140		5412		ZN5412J	FERR	GATE	108- 64
31		5400		S5400F	MULB	GATE	105- 74	141		5412		SN5412J	TII	GATE	108- 10
32		5400		S5400F	PHIN	GATE	105- 74	142		5412		SN5412W	TII	GATE	108- 11
33		5400		S5400F	SIC	GATE	105- 74	143		5412		S5412F	MULB	GATE	105- 82
34		5400		S5400F	VALG	GATE	105- 74	144		5412		S5412F	PHIN	GATE	105- 82
35		5400		S5400W	MULB	GATE	105- 75	145		5412		S5412F	VALG	GATE	105- 82
36		5400		S5400W	PHIN	GATE	105- 75	146		5412		S5412W	MULB	GATE	105- 83
37		5400		S5400W	SIC	GATE	105- 75	147		5412		S5412W	PHIN	GATE	105- 83
38		5400		S5400W	VALG	GATE	105- 75	148		5412		S5412W	PHIN	GATE	105- 83
39		5400		5400DM	FSC	GATE	98- 98	149		5412		5412DM	FSC	GATE	94- 16
40		5400		5400FM	FSC	GATE	98- 99	150		5412		5412FM	FSC	GATE	94- 17
41		5401		DM5401J	NSC	GATE	99- 39	151		5420		DM5420J	NSC	GATE	99- 44
42		5401		DM5401W	NSC	GATE	99- 40	152		5420		DM5420W	NSC	GATE	99- 45
43		5401		ZN5401E	FERR	GATE	110- 36	153		5420		ZN5420E	FERR	GATE	110- 40
44		5401		ZN5401F	FERR	GATE	110- 37	154		5420		ZN5420F	FERR	GATE	110- 41
45		5401		SN5401J	TII	GATE	108- 4	155		5420		SN5420J	TII	GATE	110- 79
46		5401		SN5401W	TII	GATE	108- 5	156		5420		SN5420W	TII	GATE	110- 80
47		5401		S5401F	MULB	GATE	105- 76	157		5420		S5420F	MULB	GATE	105- 84
48		5401		S5401F	PHIN	GATE	105- 76	158		5420		S5420F	PHIN	GATE	105- 84
49		5401		S5401F	VALG	GATE	105- 76	159		5420		S5420F	SIC	GATE	105- 84
50		5401		S5401W	MULB	GATE	105- 77	160		5420		S5420F	VALG	GATE	105- 84
51		5401		S5401W	PHIN	GATE	105- 77	161		5420		S5420W	MULB	GATE	105- 85
52		5401		S5401W	VALG	GATE	105- 77	162		5420		S5420W	PHIN	GATE	105- 85
53		5401		5401DM	FSC	GATE	98-100	163		5420		S5420W	SIC	GATE	105- 85
54		5401		5401FM	FSC	GATE	98-101	164		5420		S5420W	VALG	GATE	105- 85
55		5402		DM5402J	NSC	GATE	90- 78	165		5420		5420DM	FSC	GATE	110- 72
56		5402		DM5402W	NSC	GATE	90- 79	166		5420		5420FM	FSC	GATE	94- 18
57		5402		ZN5402E	FERR	GATE	93- 57	167		5421		S5421F	MULB	GATE	80- 35
58		5402		ZN5402F	FERR	GATE	93- 58	168		5421		S5421F	PHIN	GATE	80- 35
59		5402		SN5402J	TII	GATE	92- 96	169		5421		S5421F	VALG	GATE	80- 35
60		5402		SN5402W	TII	GATE	92- 97	170		5421		S5421W	MULB	GATE	80- 36
61		5402		S5402F	MULB	GATE	92- 44	171		5421		S5421W	PHIN	GATE	80- 36
62		5402		S5402F	PHIN	GATE	92- 44	172		5421		S5421W	VALG	GATE	80- 36
63		5402		S5402F	VALG	GATE	92- 44	173		5421		5421DM	FSC	GATE	75-105
64		5402		S5402W	MULB	GATE	92- 45	174		5421		5421FM	FSC	GATE	75-106
65		5402		S5402W	PHIN	GATE	92- 45	175		5422		SN5422J	TII	GATE	108- 12
66		5402		S5402W	VALG	GATE	92- 45	176		5422		SN5422W	TII	GATE	108- 13
67		5402		5402DM	FSC	GATE	90- 64	177		5422		5422DM	FSC	GATE	94- 19
68		5402		5402FM	FSC	GATE	90- 65	178		5422		5422FM	FSC	GATE	94- 20
69		5403		DM5403J	NSC	GATE	99- 41	179		5423		DM5423J	NSC	GATE	90- 80
70		5403		ZN5403E	FERR	GATE	108- 61	180		5423		DM5423W	NSC	GATE	91- 1
71		5403		ZN5403J	FERR	GATE	108- 62	181		5423		SN5423J	TII	GATE	92- 98
72		5403		SN5403J	TII	GATE	108- 6	182		5423		SN5423W	TII	GATE	92- 99
73		5403		SN5403W	TII	GATE	108- 7	183		5423		S5423F	MULB	GATE	92- 46
74		5403		S5403F	MULB	GATE	105- 78	184		5423		S5423F	PHIN	GATE	92- 46
75		5403		S5403F	PHIN	GATE	105- 78	185		5423		S5423F	SIC	GATE	92- 46
76		5403		S5403F	SIC	GATE	105- 78	186		5423		S5423F	VALG	GATE	92- 46
77		5403		S5403W	VALG	GATE	105- 78	187		5423		S5423W	MULB	GATE	92- 47
78		5403		S5403W	MULB	GATE	105- 79	188		5423		S5423W	PHIN	GATE	92- 47
79		5403		S5403W	PHIN	GATE	105- 79	189		5423		S5423W	SIC	GATE	92- 47
80		5403		S5403W	SIC	GATE	105- 79	190		5423		S5423W	VALG	GATE	92- 47
81		5403		S5403W	VALG	GATE	105- 79	191		5423		5423FM	FSC	GATE	90- 66
82		5403		5403DM	FSC	GATE	98-102	192		5425		DM5425J	NSC	GATE	91- 2
83		5403		5403FM	FSC	GATE	98-103	193		5425		DM5425W	NSC	GATE	91- 3
84		5404		S5404F	SIC	GATE	115- 63	194		5425		DM5425E	FERR	GATE	93- 22
85		5404		S5404W	SIC	GATE	115- 64	195		5425		ZN5425J	FERR	GATE	93- 23
86		5408		DM5408J	NSC	GATE	77- 88	196		5425		SN5425J	TII	GATE	92-100
87		5408		DM5408W	NSC	GATE	77- 89	197		5425		SN5425W	TII	GATE	92-101
88		5408		ZN5408E	FERR	GATE	110- 87	198		5425		S5425F	MULB	GATE	92- 48
89		5408		ZN5408J	FERR	GATE	110- 88	199		5425		S5425F	PHIN	GATE	92- 48
90		5408		SN5408J	TII	GATE	110- 75	200		5425		S5425F	SIC	GATE	92- 48
91		5408		SN5408W	TII	GATE	110- 76	201		5425		S5425F	VALG	GATE	92- 48
92		5408		S5408F	MULB	GATE	80- 29	202		5425		S5425W	MULB	GATE	92- 49
93		5408		S5408F	PHIN	GATE	80- 29	203		5425		S5425W	PHIN	GATE	92- 49
94		5408		S5408F	SIC	GATE	80- 29	204		5425		S5425W	SIC	GATE	92- 49
95		5408		S5408W	VALG	GATE	80- 30	205		5425		S5425W	VALG	GATE	92- 49
96		5408		S5408W	MULB	GATE	80- 30	206		5425		5425DM	FSC	GATE	90- 67
97		5408		S5408W	PHIN	GATE	80- 30	207		5425		5425FM	FSC	GATE	90- 68
98		5408		5408DM	FSC	GATE	77- 73	208		5426		SN5426J	TII	GATE	108- 14
99		5408		5408FM	FSC	GATE									

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LINE No.	1 GENERIC NO.	2 MANUFACTURER TYPE NO.	MFR. CODE	PRODUCT CLASS	PAGE & LINE	LINE No.	1 GENERIC NO.	2 MANUFACTURER TYPE NO.	MFR. CODE	PRODUCT CLASS	PAGE & LINE
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2	5427	S5427F	VALG	GATE	92-50	112	5450	DM5450W	NSC	GATE	83-99
3	5427	S5427W	MULB	GATE	92-51	113	5450	ZN5450E	FERB	GATE	113-28
4	5427	S5427W	PHIN	GATE	92-51	114	5450	ZN5450F	FERB	GATE	113-29
5	5427	S5427W	VALG	GATE	92-51	115	5450	SN5450J	TII	GATE	86-105
6	5427	S427DM	FSC	GATE	90-69	116	5450	SN5450W	TII	GATE	87-1
7	5427	S427FM	FSC	GATE	90-70	117	5450	S5450F	MULB	GATE	114-17
8	5428	ZN5428E	FERB	GATE	93-26	118	5450	S5450F	PHIN	GATE	114-17
9	5428	ZN5428J	FERB	GATE	93-27	119	5450	S5450F	VALG	GATE	114-17
10	5428	SN5428J	TII	GATE	92-104	120	5450	S5450W	MULB	GATE	114-18
11	5428	SN5428W	TII	GATE	92-105	121	5450	S5450W	PHIN	GATE	114-18
12	5430	DM5430J	NSC	GATE	99-46	122	5450	S5450W	VALG	GATE	114-18
13	5430	DM5430W	NSC	GATE	99-47	123	5450	S5450DM	FSC	GATE	83-81
14	5430	ZN5430E	FERB	GATE	110-42	124	5450	S450FM	FSC	GATE	113-80
15	5430	ZN5430F	FERB	GATE	110-43	125	5451	DM5451J	NSC	GATE	83-100
16	5430	SN5430J	TII	GATE	108-16	126	5451	DM5451W	NSC	GATE	83-101
17	5430	SN5430W	TII	GATE	108-17	127	5451	ZN5451E	FERB	GATE	113-30
18	5430	S5430F	MULB	GATE	105-87	128	5451	ZN5451F	FERB	GATE	113-31
19	5430	S5430F	PHIN	GATE	105-87	129	5451	SN5451J	TII	GATE	87-2
20	5430	S5430F	VALG	GATE	105-87	130	5451	SN5451W	TII	GATE	87-3
21	5430	S5430W	MULB	GATE	105-88	131	5451	S5451F	MULB	GATE	86-45
22	5430	S5430W	PHIN	GATE	105-88	132	5451	S5451F	PHIN	GATE	86-45
23	5430	S5430W	VALG	GATE	105-88	133	5451	S5451F	VALG	GATE	86-45
24	5430	S430DM	FSC	GATE	98-104	134	5451	S5451W	MULB	GATE	86-46
25	5430	S430FM	FSC	GATE	98-105	135	5451	S5451W	PHIN	GATE	86-46
26	5432	DM5432J	NSC	GATE	87-87	136	5451	S5451W	VALG	GATE	86-46
27	5432	DM5432W	NSC	GATE	87-88	137	5451	S451DM	FSC	GATE	83-82
28	5432	ZN5432E	FERB	GATE	88-44	138	5451	S451FM	FSC	GATE	83-2
29	5432	ZN5432J	FERB	GATE	88-45	139	5453	DM5453J	NSC	GATE	83-102
30	5432	ZN5432J	TII	GATE	88-38	140	5453	DM5453W	NSC	GATE	83-103
31	5432	SN5432W	TII	GATE	88-39	141	5453	ZN5453E	FERB	GATE	82-55
32	5432	S5432F	MULB	GATE	88-23	142	5453	ZN5453F	FERB	GATE	82-56
33	5432	S5432F	PHIN	GATE	88-23	143	5453	SN5453J	TII	GATE	87-4
34	5432	S5432F	SIC	GATE	88-23	144	5453	SN5453W	TII	GATE	87-5
35	5432	S5432F	VALG	GATE	88-23	145	5453	S5453F	MULB	GATE	114-19
36	5432	S5432W	MULB	GATE	88-24	146	5453	S5453F	PHIN	GATE	114-19
37	5432	S5432W	PHIN	GATE	88-24	147	5453	S5453F	VALG	GATE	114-19
38	5432	S5432W	SIC	GATE	88-24	148	5453	S5453W	MULB	GATE	114-20
39	5432	S5432W	VALG	GATE	88-24	149	5453	S5453W	PHIN	GATE	114-20
40	5432	S432DM	FSC	GATE	87-83	150	5453	S5453W	VALG	GATE	114-20
41	5432	S432FM	FSC	GATE	87-84	151	5453	S453DM	FSC	GATE	83-83
42	5433	SN5433J	TII	GATE	93-1	152	5453	S453FM	FSC	GATE	83-3
43	5433	SN5433W	TII	GATE	93-2	153	5454	DM5454J	NSC	GATE	83-104
44	5437	DM5437J	NSC	GATE	99-48	154	5454	DM5454W	NSC	GATE	83-105
45	5437	DM5437W	NSC	GATE	99-49	155	5454	ZN5454E	FERB	GATE	82-57
46	5437	ZN5437E	FERB	GATE	108-65	156	5454	ZN5454F	FERB	GATE	82-58
47	5437	ZN5437J	FERB	GATE	108-66	157	5454	SN5454J	TII	GATE	87-6
48	5437	SN5437J	TII	GATE	108-18	158	5454	SN5454W	TII	GATE	87-7
49	5437	SN5437W	TII	GATE	108-19	159	5454	S5454F	MULB	GATE	86-47
50	5437	S437DM	FSC	GATE	98-106	160	5454	S5454F	PHIN	GATE	86-47
51	5437	S437FM	FSC	GATE	98-107	161	5454	S5454F	VALG	GATE	86-47
52	5438	DM5438J	NSC	GATE	99-50	162	5454	S5454W	MULB	GATE	86-48
53	5438	DM5438W	NSC	GATE	99-51	163	5454	S5454W	PHIN	GATE	86-48
54	5438	ZN5438E	FERB	GATE	108-67	164	5454	S5454W	VALG	GATE	86-48
55	5438	ZN5438J	FERB	GATE	108-68	165	5454	S454DM	FSC	GATE	83-84
56	5438	SN5438J	TII	GATE	108-20	166	5454	S454FM	FSC	GATE	83-4
57	5438	SN5438W	TII	GATE	108-21	167	5460	DM5460J	NSC	GATE	113-87
58	5440	DM5440J	NSC	GATE	99-52	168	5460	DM5460W	NSC	GATE	113-88
59	5440	DM5440W	NSC	GATE	99-53	169	5460	ZN5460E	FERB	GATE	114-79
60	5440	ZN5440E	FERB	GATE	110-44	170	5460	ZN5460F	FERB	GATE	114-80
61	5440	ZN5440F	FERB	GATE	110-45	171	5460	SN5460J	TII	GATE	114-39
62	5440	SN5440J	TII	GATE	108-22	172	5460	SN5460W	TII	GATE	114-40
63	5440	SN5440W	TII	GATE	108-23	173	5460	S5460F	MULB	GATE	114-21
64	5441	DM5441AJ	NSC	DECODER	119-28	174	5460	S5460F	PHIN	GATE	114-21
65	5441	DM5441AW	NSC	DECODER	119-29	175	5460	S5460F	VALG	GATE	114-21
66	5442	DM5442J	NSC	DECODER	119-30	176	5460	S5460W	MULB	GATE	114-22
67	5442	DM5442W	NSC	DECODER	119-31	177	5460	S5460W	PHIN	GATE	114-22
68	5442	ZN5442E	FERB	DECODER	120-54	178	5460	S5460W	VALG	GATE	114-22
69	5442	ZN5442J	FERB	DECODER	120-55	179	5460	S460DM	FSC	GATE	113-81
70	5442	SN5442AJ	TII	DECODER	120-37	180	5460	S460FM	FSC	GATE	113-82
71	5442	SN5442AW	TII	DECODER	120-38	181	5470	DM5470J	NSC	FLIP FLOP	49-60
72	5442	S5442F	MULB	DECODER	120-16	182	5470	DM5470W	NSC	FLIP FLOP	49-61
73	5442	S5442F	PHIN	DECODER	120-16	183	5470	ZN5470E	FERB	FLIP FLOP	49-12
74	5442	S5442F	SIC	DECODER	120-16	184	5470	ZN5470F	FERB	FLIP FLOP	49-13
75	5442	S5442F	VALG	DECODER	120-16	185	5470	SN5470J	TII	FLIP FLOP	49-72
76	5442	S5442W	MULB	DECODER	120-17	186	5470	SN5470W	TII	FLIP FLOP	49-73
77	5442	S5442W	PHIN	DECODER	120-17	187	5470	S5470F	MULB	FLIP FLOP	46-19
78	5442	S5442W	SIC	DECODER	120-17	188	5470	S5470F	PHIN	FLIP FLOP	46-19
79	5442	S5442W	VALG	DECODER	120-17	189	5470	S5470F	VALG	FLIP FLOP	46-19
80	5442	S442ADM	FSC	DECODER	120-62	190	5470	S5470W	MULB	FLIP FLOP	46-20
81	5442	S442AFM	FSC	DECODER	120-63	191	5470	S5470W	PHIN	FLIP FLOP	46-20
82	5443	SN5443AJ	TII	DECODER	121-12	192	5470	S5470W	VALG	FLIP FLOP	46-20
83	5443	SN5443AW	TII	DECODER	121-13	193	5470	S470FM	FSC	FLIP FLOP	49-54
84	5443	S5443F	MULB	DECODER	121-10	194	5472	DM5472J	NSC	FLIP FLOP	49-62
85	5443	S5443F	PHIN	DECODER	121-10	195	5472	DM5472W	NSC	FLIP FLOP	49-63
86	5443	S5443F	SIC	DECODER	121-10	196	5472	ZN5472E	FERB	FLIP FLOP	49-14
87	5443	S5443F	VALG	DECODER	121-10	197	5472	ZN5472F	FERB	FLIP FLOP	49-15
88	5443	S5443W	MULB	DECODER	121-11	198	5472	SN5472J	TII	FLIP FLOP	49-74
89	5443	S5443W	PHIN	DECODER	121-11	199	5472	SN5472W	TII	FLIP FLOP	49-75
90	5443	S5443W	SIC	DECODER	121-11	200	5472	S5472F	MULB	FLIP FLOP	46-21
91	5443	S5443W	VALG	DECODER	121-11	201	5472	S5472F	PHIN	FLIP FLOP	46-21
92	5443	S443AFM	FSC	DECODER	121-16	202	5472	S5472F	VALG	FLIP FLOP	46-21
93	5444	SN5444AJ	TII	DECODER	121-69	203	5472	S5472W	MULB	FLIP FLOP	46-22
94	5444	SN5444AW	TII	DECODER	121-70	204	5472	S5472W	PHIN	FLIP FLOP	46-22
95	5444	S5444F	MULB	DECODER	121-67	205	5472	S5472W	VALG	FLIP FLOP	46-22
96	5444	S5444F	PHIN	DECODER	121-67	206	5472	S472DM	FSC	FLIP FLOP	49-55
97	5444	S5444F	VALG	DECODER	121-67	207	5472	S472FM	FSC	FLIP FLOP	49-56
98	5444	S5444W	MULB	DECODER	121-68	208	5473	DM5473J	NSC	FLIP FLOP	42-108
99	5444	S5444W	PHIN	DECODER	121-68	209	5473	DM5473W	NSC	FLIP FLOP	43-1
100	5444	S5444W	VALG	DECODER	121-68	210	5473	ZN5473E	FERB	FLIP FLOP	49-16
101	5444	S444AFM	FSC	DECODER	121-17	211	5473	ZN5473F	FERB	FLIP FLOP	49-17
102	5445	DM5445J	NSC	DECODER	119-32	212	5473	SN5473J	TII	FLIP FLOP	46-107
103	5445	DM5445W	NSC	DECODER	119-33	213	5473	SN5473W	TII	FLIP FLOP	46-108
104	5445	SN5445J	TII	DECODER	120-39	214	5473	S5473F	MULB	FLIP FLOP	46-23
105	5445	SN5445W	TII	DECODER	120-40	215	5473	S5473F	PHIN	FLIP FLOP	46-23
106	5445	S5445F	MULB	DECODER	120-18	216	5473	S5473F	SIC	FLIP FLOP	46-23
107	5445	S5445F	PHIN	DECODER	120-18	217	5473	S5473F	VALG	FLIP FLOP	46-23
108	5445	S5445W	MULB	DECODER	120-19	218	5473	S5473W	MULB	FLIP FLOP	46-24
109	5445	S5445W	PHIN	DECODER	120-19	219	5473	S5473W	PHIN	FLIP FLOP	46-24
110	5445	S445DM	FSC	DECODER	119-13	220	5473	S5473W	SIC	FLIP FLOP	46-24

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1	5473	S5473W	VALG	FLIP FLOP	46- 24	111	5490	DM5490AJ#mil	NSC	COUNTER	152- 22
2	5473	5473DM	FSC	FLIP FLOP	42- 93	112	5490	DM5490J	NSC	COUNTER	143- 61
3	5473	5473FM	FSC	FLIP FLOP	42- 94	113	5490	DM5490W	NSC	COUNTER	143- 62
4	5474	DM5474J	NSC	FLIP FLOP	51- 60	114	5490	SN5490AJ	TII	COUNTER	143- 54
5	5474	DM5474W	NSC	FLIP FLOP	51- 61	115	5490	SN5490AW	TII	COUNTER	143- 55
6	5474	ZN5474E	FERB	FLIP FLOP	54- 58	116	5490	SN5490N	TII	COUNTER	141- 17
7	5474	ZN5474F	FERB	FLIP FLOP	54- 59	117	5490	S5490F	MULB	COUNTER	140- 18
8	5474	S5474F	MULB	FLIP FLOP	52- 61	118	5490	S5490F	PHIN	COUNTER	140- 18
9	5474	S5474F	PHIN	FLIP FLOP	52- 61	119	5490	S5490F	VALG	COUNTER	140- 18
10	5474	S5474F	SIC	FLIP FLOP	52- 61	120	5490	S5490W	MULB	COUNTER	140- 19
11	5474	S5474F	VALG	FLIP FLOP	52- 61	121	5490	S5490W	PHIN	COUNTER	140- 19
12	5474	S5474W	MULB	FLIP FLOP	52- 62	122	5490	S5490W	VALG	COUNTER	140- 19
13	5474	S5474W	PHIN	FLIP FLOP	52- 62	123	5490	5490ADM	FSC	COUNTER	142- 78
14	5474	S5474W	SIC	FLIP FLOP	52- 62	124	5490	5490AFM	FSC	COUNTER	142- 79
15	5474	S5474W	VALG	FLIP FLOP	52- 62	125	5490	5490DM	FSC	COUNTER	142- 80
16	5474	5474DM	FSC	FLIP FLOP	51- 47	126	5492	DM5492AJ#mil	NSC	COUNTER	152- 23
17	5474	5474FM	FSC	FLIP FLOP	51- 48	127	5492	DM5492AW#mil	NSC	COUNTER	152- 24
18	5475	DM5475J	NSC	LATCHES	177- 47	128	5492	DM5492J	NSC	COUNTER	152- 76
19	5475	DM5475W	NSC	LATCHES	177- 48	129	5492	DM5492W	NSC	COUNTER	152- 77
20	5475	ZN5475E	FERB	FLIP FLOP	54- 60	130	5492	ZN5492AE	FERB	COUNTER	153- 41
21	5475	SN5475J	TII	LATCHES	177- 77	131	5492	ZN5492AJ	FERB	COUNTER	153- 42
22	5475	SN5475W	TII	LATCHES	177- 78	132	5492	SN5492AJ	TII	COUNTER	153- 37
23	5475	S5475F	MULB	LATCHES	177- 70	133	5492	SN5492AW	TII	COUNTER	153- 38
24	5475	S5475F	PHIN	LATCHES	177- 70	134	5492	S5492F	MULB	COUNTER	153- 17
25	5475	S5475F	SIC	LATCHES	177- 70	135	5492	S5492F	PHIN	COUNTER	153- 17
26	5475	S5475F	VALG	LATCHES	177- 70	136	5492	S5492F	VALG	COUNTER	153- 17
27	5475	S5475W	MULB	LATCHES	177- 71	137	5492	S5492W	MULB	COUNTER	153- 18
28	5475	S5475W	PHIN	LATCHES	177- 71	138	5492	S5492W	PHIN	COUNTER	153- 18
29	5475	S5475W	SIC	LATCHES	177- 71	139	5492	S5492W	VALG	COUNTER	153- 18
30	5475	S5475W	VALG	LATCHES	177- 71	140	5492	5492ADM	FSC	COUNTER	153- 27
31	5475	5475DM	FSC	LATCHES	178-101	141	5492	5492AFM	FSC	COUNTER	153- 28
32	5475	5475FM	FSC	LATCHES	179- 1	142	5493	DM5493AJ#mil	NSC	COUNTER	152- 25
33	5476	DM5476J	NSC	FLIP FLOP	43- 2	143	5493	DM5493AW#mil	NSC	COUNTER	152- 26
34	5476	DM5476W	NSC	FLIP FLOP	43- 3	144	5493	DM5493J	NSC	COUNTER	150- 24
35	5476	ZN5476E	FERB	FLIP FLOP	49- 18	145	5493	DM5493W	NSC	COUNTER	150- 25
36	5476	SN5476J	TII	FLIP FLOP	46-109	146	5493	ZN5493AE	FERB	COUNTER	150- 10
37	5476	SN5476W	TII	FLIP FLOP	46-110	147	5493	ZN5493AJ	FERB	COUNTER	150- 11
38	5476	S5476F	MULB	FLIP FLOP	46- 25	148	5493	SN5493AJ	TII	COUNTER	150- 6
39	5476	S5476F	PHIN	FLIP FLOP	46- 25	149	5493	SN5493AW	TII	COUNTER	150- 7
40	5476	S5476F	SIC	FLIP FLOP	46- 25	150	5493	S5493F	MULB	COUNTER	145- 13
41	5476	S5476W	VALG	FLIP FLOP	46- 25	151	5493	S5493F	PHIN	COUNTER	145- 13
42	5476	S5476W	MULB	FLIP FLOP	46- 26	152	5493	S5493F	SIC	COUNTER	145- 13
43	5476	S5476W	PHIN	FLIP FLOP	46- 26	153	5493	S5493F	VALG	COUNTER	145- 13
44	5476	S5476W	SIC	FLIP FLOP	46- 26	154	5493	S5493W	MULB	COUNTER	145- 14
45	5476	S5476W	VALG	FLIP FLOP	46- 26	155	5493	S5493W	PHIN	COUNTER	145- 14
46	5476	5476DM	FSC	FLIP FLOP	42- 95	156	5493	S5493W	SIC	COUNTER	145- 14
47	5476	5476FM	FSC	FLIP FLOP	42- 96	157	5493	S5493W	VALG	COUNTER	145- 14
48	5477	SN5477W	TII	LATCHES	177- 79	158	5493	5493ADM	FSC	COUNTER	152- 63
49	5477	S5477W	MULB	LATCHES	177- 58	159	5493	5493AFM	FSC	COUNTER	152- 64
50	5477	S5477W	PHIN	LATCHES	177- 58	160	5497	SN5497J	TII	FREQ DIVID	158- 12
51	5477	S5477W	SIC	LATCHES	177- 58	161	5497	SN5497W	TII	FREQ DIVID	158- 13
52	5477	5477FM	FSC	LATCHES	179- 2	162	5500	MSM5500RS	OKJ	COUNTER	135- 58
53	5480	SN5480J	TII	ADDER	160- 72	163	5500	NC5500	NIT	GATE	57- 63
54	5480	SN5480W	TII	ADDER	160- 73	164	5501	MSM5501RS	OKJ	COUNTER	135- 89
55	5480	S5480F	MULB	ADDER	160- 70	165	5502	MSM5502RS	OKJ	COUNTER	135- 70
56	5480	S5480F	PHIN	ADDER	160- 70	166	5503	MSM5503	OKJ	COUNTER	129- 51
57	5480	S5480F	VALG	ADDER	160- 70	167	5503	MSM5503RS	OKJ	COUNTER	135- 71
58	5480	S5480W	MULB	ADDER	160- 71	168	5504	MSM5504	OKJ	COUNTER	131- 57
59	5480	S5480W	PHIN	ADDER	160- 71	169	5504	MSM5504RS	OKJ	COUNTER	131- 58
60	5480	S5480W	VALG	ADDER	160- 71	170	5505	MSM5505	OKJ	COUNTER	129- 52
61	5480	5480FM	FSC	ADDER	160- 67	171	5505	MSM5505RS	OKJ	COUNTER	135- 72
62	5482	SN5482J	TII	ADDER	160- 90	172	5506	MSM5506RS	OKJ	MULTIPLIER	163- 12
63	5482	SN5482W	TII	ADDER	160- 91	173	5507	MSM5507	OKJ	COUNTER	131- 59
64	5482	5482FM	FSC	ADDER	160- 89	174	5507	MSM5507RS	OKJ	COUNTER	131- 60
65	5483	DM5483J	NSC	ADDER	162- 19	175	5508	MSM5508	OKJ	COUNTER	131- 61
66	5483	DM5483W	NSC	ADDER	162- 20	176	5508	MSM5508RS	OKJ	COUNTER	131- 62
67	5483	SN5483AJ	TII	ADDER	161- 66	177	5511	MSM5511RS	OKJ	COUNTER	129- 38
68	5483	SN5483AW	TII	ADDER	161- 67	178	5512	MSM5512RS	OKJ	COUNTER	129- 53
69	5483	S5483F	MULB	ADDER	162- 17	179	5521	MSM5521RS	OKJ	COUNTER	136- 77
70	5483	S5483F	PHIN	ADDER	162- 17	180	5522	MSM5522RS	OKJ	COUNTER	136- 78
71	5483	S5483F	SIC	ADDER	162- 17	181	5530	MSM5530RS	OKJ	COUNTER	130- 95
72	5483	S5483F	VALG	ADDER	162- 17	182	5531	MSM5531RS	OKJ	COUNTER	138- 55
73	5483	S5483W	MULB	ADDER	162- 18	183	5532	MSM5532RS	OKJ	COUNTER	132- 29
74	5483	S5483W	PHIN	ADDER	162- 18	184	5535	MSM5535	OKJ	COUNTER	129- 54
75	5483	S5483W	SIC	ADDER	162- 18	185	5535	MSM5535RS	OKJ	COUNTER	130- 94
76	5483	S5483W	VALG	ADDER	162- 18	186	5536	MSM5536	OKJ	COUNTER	138- 53
77	5483	5483ADM	FSC	ADDER	161- 22	187	5536	MSM5536RS	OKJ	COUNTER	138- 54
78	5483	5483AFM	FSC	ADDER	161- 23	188	5538	MSM5538	OKJ	COUNTER	131- 63
79	5485	DM5485J#mil	NSC	MAGN COMP	166- 13	189	5538	MSM5538RS	OKJ	COUNTER	131- 64
80	5485	DM5485W#mil	NSC	MAGN COMP	166- 14	190	5554	MM5554N	NSC	FREQ DIVID	157-100
81	5485	SN5485J	TII	MAGN COMP	166- 35	191	5555	MM5555N	NSC	FREQ DIVID	157-102
82	5485	SN5485W	TII	MAGN COMP	166- 36	192	5556	MM5556N	NSC	FREQ DIVID	157-101
83	5485	S5485F	MULB	MAGN COMP	166- 28	193	5562	MSM5562	OKJ	COUNTER	131- 6
84	5485	S5485F	PHIN	MAGN COMP	166- 28	194	5562	MSM5562A	OKJ	COUNTER	131- 7
85	5485	S5485F	RTCF	MAGN COMP	166- 28	195	5562	MSM5562RS	OKJ	COUNTER	131- 8
86	5485	S5485F	SIC	MAGN COMP	166- 28	196	5563	MSM5563	OKJ	COUNTER	131- 9
87	5485	S5485F	VALG	MAGN COMP	166- 28	197	5563	MSM5563A	OKJ	COUNTER	131- 10
88	5485	S5485W	MULB	MAGN COMP	166- 29	198	5563	MSM5563RS	OKJ	COUNTER	131- 11
89	5485	S5485W	PHIN	MAGN COMP	166- 29	199	5564	MSM5564	OKJ	COUNTER	131- 12
90	5485	S5485W	RTCF	MAGN COMP	166- 29	200	5564	MSM5564A	OKJ	COUNTER	131- 13
91	5485	S5485W	SIC	MAGN COMP	166- 29	201	5564	MSM5564RS	OKJ	COUNTER	131- 14
92	5485	S5485W	VALG	MAGN COMP	166- 29	202	5570	MSM5570	OKJ	COUNTER	131- 15
93	5485	5485DM	FSC	MAGN COMP	166- 22	203	5570	MSM5570A	OKJ	COUNTER	131- 16
94	5485	5485FM	FSC	MAGN COMP	166- 23	204	5571	MSM5571	OKJ	COUNTER	131- 17
95	5486	DM5486J	NSC	GATE	111- 77	205	5571	MSM5571A	OKJ	COUNTER	131- 18
96	5486	DM5486W	NSC	GATE	111- 78	206	5572	MSM5572	OKJ	COUNTER	131- 19
97	5486	ZN5486E	FERB	GATE	113- 2	207	5572	MSM5572A	OKJ	COUNTER	131- 20
98	5486	ZN5486J	FERB	GATE	113- 3	208	5573	MSM5573	OKJ	COUNTER	131- 21
99	5486	SN5486J	TII	GATE	112- 78	209	5573	MSM5573A	OKJ	COUNTER	131- 22
100	5486	SN5486W	TII	GATE	112- 79	210	5574	MSM5574	OKJ	COUNTER	131- 23
101	5486	S5486F	MULB	GATE	88- 25	211	5574	MSM5574A	OKJ	COUNTER	131- 24
102	5486	S5486F	PHIN	GATE	88- 25	212	5576	MSM5576	OKJ	COUNTER	131- 25
103	5486	S5486F	SIC	GATE	88- 25	213	5576	MSM5576A	OKJ	COUNTER	131- 26
104	5486	S5486F	VALG	GATE	88- 25	214	5576	MSM5576RS	OKJ	COUNTER	131- 27
105	5486	S5486W	MULB	GATE	88- 26	215	5577	MSM5577	OKJ	COUNTER	131- 28
106	5486	S5486W	PHIN	GATE	88- 26	216	5577	MSM5577A	OKJ	COUNTER	131- 29
107	5486	S5486W	SIC	GATE	88- 26	217	5577	MSM5577RS	OKJ	COUNTER	131- 30
108	5486	S5486W	VALG	GATE	88- 26	218	5600	NC5600	NIT	GATE	57- 64
109	5486	5486DM	FSC	GATE	111- 71	219	5601	MM5601AN	NSC	GATE	93- 62
110	5486	5486FM	FSC	GATE	111- 72	220	5602	MM			

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1	5611	MM5611AN	NSC	GATE	62- 74	111	7217	CD7217BC	DTL	COUNTER	135- 60
2	5612	MM5612AN	NSC	GATE	62- 75	112	7217	CD7217C	DTL	COUNTER	135- 61
3	5613	MM5613AN	NSC	FLIP_FLOP	37- 4	113	7217	CD7217CC	DTL	COUNTER	135- 62
4	5617	MM5617AN	NSC	COUNTER	135- 78	114	7218	ICM7218AIJ1%	INL	SPECIAL	184- 20
5	5619	MM5619AN	NSC	GATE	56- 97	115	7218	ICM7218BIP1%	INL	SPECIAL	184- 21
6	5620	MM5620AN	NSC	COUNTER	132- 5	116	7218	ICM7218CUI1%	INL	SPECIAL	184- 22
7	5622	MM5622AN	NSC	COUNTER	135- 79	117	7218	ICM7218DIP1%	INL	SPECIAL	184- 23
8	5623	MM5623AN	NSC	GATE	62- 76	118	7218	ICM7218EIDL%	INL	SPECIAL	184- 24
9	5624	MM5624AN	NSC	COUNTER	132- 76	119	7220	DM7220J	NSC	PARITY GEN	173- 39
10	5625	MM5625AN	NSC	GATE	59- 46	120	7220	DM7220N	NSC	PARITY GEN	173- 40
11	5627	MM5627AN	NSC	FLIP_FLOP	35- 29	121	7220	DM7220W	NSC	PARITY GEN	173- 41
12	5630	MM5630AN	NSC	GATE	65- 13	122	7223	ICM7223VF-D	INL	SPECIAL	185- 14
13	5900	5900	DIS	DECODER	116- 28	123	7224	ICM7224AIPL	INL	COUNTER	136- 41
14	5953	MSM5953RS	OKIJ	COUNTER	130- 78	124	7224	ICM7224IPL	INL	COUNTER	136- 42
15	6053	MN6053	MATJ	CLOCK/MV	154- 37	125	7224	CD7224AC	DTL	COUNTER	136- 37
16	6054	MN6054	MATJ	CLOCK/MV	154- 38	126	7224	CD7224C	DTL	COUNTER	136- 38
17	6056	MN6056	MATJ	CLOCK/MV	154- 39	127	7225	ICM7225AIPL	INL	COUNTER	136- 43
18	6057	MN6057	MATJ	CLOCK/MV	154- 40	128	7225	ICM7225IPL	INL	COUNTER	136- 44
19	6058	MN6058	MATJ	CLOCK/MV	154- 41	129	7225	CD7225AC	DTL	COUNTER	136- 39
20	6059	MN6059	MATJ	CLOCK/MV	154- 42	130	7225	CD7225C	DTL	COUNTER	136- 40
21	6061	MN6061A	MATJ	SPECIAL	183- 76	131	7226	ICM7226AIDL	INL	COUNTER	130- 35
22	6062	MN6062	MATJ	SPECIAL	183- 77	132	7226	ICM7226BIPL	INL	COUNTER	130- 36
23	6076	MN6076L	MATJ	SPECIAL	185- 15	133	7226	ICM7226EV/KIT	INL	SPECIAL	183- 84
24	6091	MN6091	MATJ	CLOCK/MV	154- 43	134	7227	ICM7227AIP1%	DTL	COUNTER	135- 65
25	6092	MN6092	MATJ	CLOCK/MV	154- 44	135	7227	ICM7227AIP1%	INL	COUNTER	138- 2
26	6092	MN6092A	MATJ	CLOCK/MV	154- 45	136	7227	ICM7227BIJ1%	INL	COUNTER	138- 3
27	6093	MN6093	MATJ	CLOCK/MV	154- 46	137	7227	ICM7227BIP1%	DTL	COUNTER	135- 66
28	6118	XR6118P	EXR	SPECIAL	184- 9	138	7227	ICM7227C	DTL	COUNTER	135- 67
29	6128	XR6128P	EXR	SPECIAL	184- 10	139	7227	ICM7227CIP1%	INL	COUNTER	138- 4
30	6179	TA6179W	TII	COUNTER	133- 67	140	7227	ICM7227JI1%	INL	COUNTER	138- 5
31	6207	6207A005F	SPR	TIME DELAY	124- 11	141	7227	CD7227AC	DTL	COUNTER	135- 63
32	6207	6207A010F	SPR	TIME DELAY	124- 12	142	7235	ICM7235AIPL	INL	SPECIAL	184- 25
33	6221	MN6221	MATJ	SPECIAL	182- 44	143	7235	ICM7235AMIPL	INL	SPECIAL	184- 26
34	6250	MN6250	MATJ	CLOCK/MV	154- 47	144	7235	ICM7235IPL	INL	SPECIAL	184- 27
35	6251	MN6251	MATJ	CLOCK/MV	154- 48	145	7235	ICM7235MIPL	INL	SPECIAL	184- 28
36	6688	Am6688DL6	AMD	SPECIAL	185- 6	146	7236	ICM7236AIPL	INL	COUNTER	136- 45
37	6688	Am6688DL7	AMD	SPECIAL	185- 7	147	7236	ICM7236IPL	INL	COUNTER	136- 46
38	6688	Am6688DL8	AMD	SPECIAL	185- 8	148	7240	ICM7240D	INL	SPECIAL	183- 58
39	6688	Am6688DM6	AMD	SPECIAL	185- 9	149	7240	ICM7240JE	INL	SPECIAL	183- 59
40	6688	Am6688DM7	AMD	SPECIAL	185- 10	150	7240	LS7240	LSC	MAGN COMP	165- 82
41	6688	Am6688DM8	AMD	SPECIAL	185- 11	151	7241	ICM7241	INL	FREQ DIVID	156- 71
42	6875	MC6875AL	MOTA	CLOCK/MV	154- 7	152	7242	ICM7242D	INL	SPECIAL	183- 60
43	6875	MC6875L	MOTA	CLOCK/MV	154- 8	153	7242	ICM7242JA	INL	SPECIAL	183- 61
44	6882	MC6882AL	MOTA	LATCHES	180- 53	154	7250	ICM7250D	INL	SPECIAL	183- 62
45	6882	MC6882BL	MOTA	LATCHES	180- 25	155	7250	ICM7250JE	INL	SPECIAL	183- 63
46	7030	LS7030	LSC	COUNTER	139- 71	156	7260	ICM7260D	INL	SPECIAL	183- 64
47	7031	LS7031	LSC	COUNTER	139- 72	157	7260	ICM7260JE	INL	SPECIAL	183- 65
48	7040	LS7040	LSC	COUNTER	139- 70	158	7273	ICM7273D	INL	SPECIAL	183- 23
49	7045	ICM7045AD	INL	TIME DELAY	122- 37	159	7280	DM7280J	NSC	COUNTER	149- 10
50	7045	ICM7045AIDI	INL	TIME DELAY	122- 38	160	7280	DM7280W	NSC	COUNTER	149- 11
51	7045	ICM7045AIIPI	INL	TIME DELAY	122- 68	161	7281	DM7281J	NSC	COUNTER	143- 39
52	7045	ICM7045D	INL	TIME DELAY	122- 39	162	7281	DM7281W	NSC	COUNTER	143- 40
53	7045	ICM7045IDI	INL	TIME DELAY	122- 69	163	7400	N7400F	MULB	GATE	105- 25
54	7050	ICM7050IPA	INL	CLOCK/MV	154- 62	164	7400	N7400F	PHIN	GATE	105- 25
55	7055	LS7055	LSC	COUNTER	139- 68	165	7400	N7400F	RTCF	GATE	105- 25
56	7056	LS7056	LSC	COUNTER	139- 69	166	7400	N7400F	VALG	GATE	105- 25
57	7060	LS7060	LSC	COUNTER	139- 65	167	7400	N7400N	MULB	GATE	105- 26
58	7061	LS7061	LSC	COUNTER	139- 66	168	7400	N7400N	PHIN	GATE	105- 26
59	7062	LS7062	LSC	COUNTER	139- 67	169	7400	N7400N	RTCF	GATE	105- 26
60	7091	DM7091J	NSC	GATE	99- 54	170	7400	N7400N	SIC	GATE	105- 26
61	7091	DM7091N	NSC	GATE	99- 55	171	7400	N7400N	VALG	GATE	105- 26
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64	7092	DM7092N	NSC	GATE	99- 58	174	7400	ZN7400E	FERB	GATE	110- 46
65	7092	DM7092W	NSC	GATE	99- 59	175	7400	ZN7400F	FERB	GATE	110- 47
66	7106	NC7106	NIT	COUNTER	129- 16	176	7400	SN7400J	TII	GATE	108- 24
67	7107	NC7107	NIT	COUNTER	129- 17	177	7400	SN7400N	TII	GATE	108- 25
68	7130	DM7130D	NSC	MAGN COMP	167- 1	178	7400	7400DC	FSC	GATE	98-108
69	7130	DM7130F	NSC	MAGN COMP	167- 2	179	7400	7400PC	FSC	GATE	98-109
70	7130	DM7130F#mil	NSC	MAGN COMP	167- 6	180	7401	N7401F	MULB	GATE	105- 27
71	7130	DM7130J#mil	NSC	MAGN COMP	167- 7	181	7401	N7401F	PHIN	GATE	105- 27
72	7131	DM7131J	NSC	MAGN COMP	165-103	182	7401	N7401F	VALG	GATE	105- 27
73	7131	DM7131N	NSC	MAGN COMP	165-104	183	7401	N7401N	MULB	GATE	105- 28
74	7131	DM7131W	NSC	MAGN COMP	165-105	184	7401	N7401N	PHIN	GATE	105- 28
75	7136	DM7136J	NSC	MAGN COMP	165-106	185	7401	N7401N	VALG	GATE	105- 28
76	7136	DM7136W	NSC	MAGN COMP	165-107	186	7401	DM7401N	NSC	GATE	99- 61
77	7160	DM7160D	NSC	MAGN COMP	166- 96	187	7401	ZN7401E	FERB	GATE	110- 48
78	7160	DM7160J#mil	NSC	MAGN COMP	167- 8	188	7401	ZN7401F	FERB	GATE	110- 49
79	7160	DM7160W	NSC	MAGN COMP	166- 97	189	7401	SN7401J	TII	GATE	108- 26
80	7160	DM7160W#mil	NSC	MAGN COMP	167- 9	190	7401	SN7401N	TII	GATE	108- 27
81	7200	DM7200J	NSC	MAGN COMP	166- 48	191	7401	7401DC	FSC	GATE	98-110
82	7200	DM7200N	NSC	MAGN COMP	166- 49	192	7401	7401PC	FSC	GATE	99- 1
83	7200	DM7200W	NSC	MAGN COMP	166- 50	193	7402	N7402F	MULB	GATE	92- 30
84	7206	ICM7206AJPE	INL	SPECIAL	184- 91	194	7402	N7402F	PHIN	GATE	92- 30
85	7206	ICM7206BJPE	INL	SPECIAL	184- 92	195	7402	N7402F	RTCF	GATE	92- 30
86	7206	ICM7206JPE	INL	SPECIAL	184- 93	196	7402	N7402F	VALG	GATE	92- 30
87	7207	ICM7207AIPD	INL	CLOCK/MV	154- 64	197	7402	N7402N	MULB	GATE	92- 31
88	7208	ICM7208IPI	INL	COUNTER	136- 32	198	7402	N7402N	PHIN	GATE	92- 31
89	7209	ICM7209IPA	INL	CLOCK/MV	154- 61	199	7402	N7402N	RTCF	GATE	92- 31
90	7210	LS7210	LSC	TIME DELAY	123- 41	200	7402	N7402N	SIC	GATE	92- 31
91	7211	ICM7211AIPL	INL	SPECIAL	184- 12	201	7402	N7402N	VALG	GATE	92- 31
92	7211	ICM7211AMIPL	INL	SPECIAL	184- 13	202	7402	DM7402N	NSC	GATE	91- 6
93	7211	ICM7211IPL	INL	SPECIAL	184- 14	203	7402	ZN7402E	FERB	GATE	93- 59
94	7211	ICM7211MIPL	INL	SPECIAL	184- 15	204	7402	N7402F	FERB	GATE	93- 60
95	7212	ICM7212AIPL	INL	SPECIAL	184- 16	205	7402	SN7402J	TII	GATE	93- 3
96	7212	ICM7212AMIPL	INL	SPECIAL	184- 17	206	7402	SN7402N	TII	GATE	93- 4
97	7212	ICM7212IPL	INL	SPECIAL	184- 18	207	7402	7402DC	FSC	GATE	90- 71
98	7212	ICM7212MIPL	INL	SPECIAL	184- 19	208	7402	7402PC	FSC	GATE	90- 72
99	7213	ICM7213IPD	INL	CLOCK/MV	154- 63	209	7403	N7403F	MULB	GATE	105- 29
100	7215	ICM7215IPG	INL	SPECIAL	185- 13	210	7403	N7403F	PHIN	GATE	105- 29
101	7216	ICM7216AIPI	INL	SPECIAL	183- 54	211	7403	N7403F	RTCF	GATE	105- 29
102	7216	ICM7216BIP1%	INL	SPECIAL	183- 55	212	7403	N7403F	VALG	GATE	105- 29
103	7216	ICM7216CJI	INL	SPECIAL	183- 56	213	7403	N7403N	MULB	GATE	105- 30
104	7216	ICM7216DPI	INL	SPECIAL	183- 57	214	7403	N7403N	PHIN	GATE	105- 30
105	7217	ICM7217AIIPI%	INL	COUNTER	137-108	215	7403	N7403N	RTCF	GATE	105- 30
106	7217	ICM7217BIJ1%	INL	COUNTER	137-109	216	7403	N7403N	SIC	GATE	105- 30
107	7217	ICM7217C	INL	COUNTER	135- 64	217	7403	N7403N	VALG	GATE	105- 30
108	7217	ICM7217CIP1%	INL	COUNTER	137-110	218	7403	DM7403N	SIC	GATE	99- 62
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IN ORDER OF: (1)GENERIC NO. (2)MFR TYPE NO.

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2	7403	SN7403N	TII	GATE	108- 29	112	7421	7421DC	FSC	GATE	75-109
3	7403	7403DC	FSC	GATE	99- 2	113	7421	7421PC	FSC	GATE	75-110
4	7403	7403PC	FSC	GATE	99- 3	114	7422	SN7422J	TII	GATE	108- 35
5	7404	N7404F	SIC	GATE	115- 52	115	7422	SN7422N	TII	GATE	108- 36
6	7404	N7404F	SIC	GATE	115- 52	116	7422	7422DC	FSC	GATE	94- 23
7	7404	N7404N	SIC	GATE	115- 53	117	7422	7422PC	FSC	GATE	94- 24
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10	7405	N7405F	VALG	GATE	115- 54	120	7423	N7423F	VALG	GATE	92- 32
11	7405	N7405N	SIC	GATE	115- 55	121	7423	N7423N	MULB	GATE	92- 33
12	7405	N7405N	SIC	GATE	115- 55	122	7423	N7423N	PHIN	GATE	92- 33
13	7406	N7406N	RTCF	GATE	115- 56	123	7423	N7423N	VALG	GATE	92- 33
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15	7408	N7408F	MULB	GATE	80- 3	125	7423	SN7423J	TII	GATE	93- 5
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17	7408	N7408F	RTCF	GATE	80- 3	127	7423	7423PC	FSC	GATE	90- 73
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19	7408	N7408N	MULB	GATE	80- 4	129	7425	N7425F	PHIN	GATE	92- 34
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21	7-08	N7408N	RTCF	GATE	80- 4	131	7425	N7425F	VALG	GATE	92- 34
22	7408	N7408N	SIC	GATE	80- 4	132	7425	N7425N	MULB	GATE	92- 35
23	7408	N7408N	VALG	GATE	80- 4	133	7425	N7425N	PHIN	GATE	92- 35
24	7408	DM7408N	NSC	GATE	78- 2	134	7425	N7425N	RTCF	GATE	92- 35
25	7408	ZN7408E	FERB	GATE	110- 91	135	7425	N7425N	SIC	GATE	92- 35
26	7408	ZN7408J	FERB	GATE	110- 92	136	7425	N7425N	SIC	GATE	92- 35
27	7408	SN7408J	TII	GATE	110- 81	137	7425	DM7425N	NSC	GATE	91- 8
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31	7409	N7409F	MULB	GATE	80- 5	141	7425	SN7425N	TII	GATE	93- 8
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35	7409	N7409N	PHIN	GATE	80- 6	145	7426	N7426F	PHIN	GATE	105- 37
36	7409	N7409N	VALG	GATE	80- 6	146	7426	N7426F	RTCF	GATE	105- 37
37	7409	DM7409N	NSC	GATE	78- 3	147	7426	N7426F	VALG	GATE	105- 37
38	7409	ZN7409E	FERB	GATE	110- 93	148	7426	N7426N	MULB	GATE	105- 38
39	7409	ZN7409J	FERB	GATE	110- 94	149	7426	N7426N	PHIN	GATE	105- 38
40	7409	SN7409J	TII	GATE	110- 83	150	7426	N7426N	RTCF	GATE	105- 38
41	7409	SN7409N	TII	GATE	110- 84	151	7426	N7426N	SIC	GATE	105- 38
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47	7410	N7410F	VALG	GATE	105- 31	157	7427	N7427F	MULB	GATE	92- 36
48	7410	N7410N	MULB	GATE	105- 32	158	7427	N7427F	PHIN	GATE	92- 36
49	7410	N7410N	PHIN	GATE	105- 32	159	7427	N7427F	RTCF	GATE	92- 36
50	7410	N7410N	RTCF	GATE	105- 32	160	7427	N7427F	VALG	GATE	92- 36
51	7410	N7410N	SIC	GATE	105- 32	161	7427	N7427N	MULB	GATE	92- 37
52	7410	N7410N	VALG	GATE	105- 32	162	7427	N7427N	PHIN	GATE	92- 37
53	7410	DM7410N	NSC	GATE	99- 63	163	7427	N7427N	RTCF	GATE	92- 37
54	7410	ZN7410E	FERB	GATE	110- 50	164	7427	N7427N	SIC	GATE	92- 37
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62	7411	N7411F	RTCF	GATE	80- 7	172	7427	7427PC	FSC	GATE	90- 77
63	7411	N7411F	VALG	GATE	80- 7	173	7428	ZN7428E	FERB	GATE	93- 32
64	7411	N7411N	MULB	GATE	80- 8	174	7428	ZN7428J	FERB	GATE	93- 33
65	7411	N7411N	PHIN	GATE	80- 8	175	7428	SN7428J	TII	GATE	93- 11
66	7411	N7411N	RTCF	GATE	80- 8	176	7428	SN7428N	TII	GATE	93- 12
67	7411	N7411N	SIC	GATE	80- 8	177	7430	N7430F	MULB	GATE	105- 39
68	7411	N7411N	VALG	GATE	80- 8	178	7430	N7430F	PHIN	GATE	105- 39
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70	7411	7411DC	FSC	GATE	75-107	180	7430	N7430F	VALG	GATE	105- 39
71	7411	7411PC	FSC	GATE	75-108	181	7430	N7430N	MULB	GATE	105- 40
72	7412	N7412F	MULB	GATE	105- 33	182	7430	N7430N	PHIN	GATE	105- 40
73	7412	N7412F	PHIN	GATE	105- 33	183	7430	N7430N	RTCF	GATE	105- 40
74	7412	N7412F	VALG	GATE	105- 33	184	7430	N7430N	SIC	GATE	105- 40
75	7412	N7412N	MULB	GATE	105- 34	185	7430	N7430N	VALG	GATE	105- 40
76	7412	N7412N	PHIN	GATE	105- 34	186	7430	DM7430N	NSC	GATE	99- 65
77	7412	N7412N	VALG	GATE	105- 34	187	7430	ZN7430E	FERB	GATE	110- 54
78	7412	ZN7412E	FERB	GATE	108- 71	188	7430	ZN7430F	FERB	GATE	110- 55
79	7412	ZN7412J	FERB	GATE	108- 72	189	7430	SN7430J	TII	GATE	108- 39
80	7412	SN7412J	TII	GATE	108- 32	190	7430	SN7430N	TII	GATE	108- 40
81	7412	SN7412N	TII	GATE	108- 33	191	7430	7430DC	FSC	GATE	99- 10
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83	7412	7412DC	FSC	GATE	94- 22	193	7432	N7432F	MULB	GATE	88- 17
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86	7416	N7416N	VALG	GATE	115- 58	196	7432	N7432F	VALG	GATE	88- 17
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88	7420	N7420F	PHIN	GATE	105- 35	198	7432	N7432N	PHIN	GATE	88- 18
89	7420	N7420F	RTCF	GATE	105- 35	199	7432	N7432N	RTCF	GATE	88- 18
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91	7420	N7420N	MULB	GATE	105- 36	201	7432	N7432N	VALG	GATE	88- 18
92	7420	N7420N	PHIN	GATE	105- 36	202	7432	DM7432N	NSC	GATE	87- 89
93	7420	N7420N	RTCF	GATE	105- 36	203	7432	ZN7432E	FERB	GATE	88- 46
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95	7420	N7420N	VALG	GATE	105- 36	205	7432	SN7432J	TII	GATE	88- 40
96	7420	DM7420N	NSC	GATE	99- 64	206	7432	SN7432N	TII	GATE	88- 41
97	7420	ZN7420E	FERB	GATE	110- 52	207	7432	7432DC	FSC	GATE	87- 85
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105	7421	N7421F	RTCF	GATE	80- 9	215	7437	SN7437N	TII	GATE	108- 42
106	7421	N7421F	VALG	GATE	80- 9	216	7437	7437DC	FSC	GATE	99- 12
107	7421	N7421N	MULB	GATE	80- 10	217	7437	7437PC	FSC	GATE	99- 13
108	7421	N7421N	PHIN	GATE	80- 10	218	7438	DM7438N	NSC	GATE	99- 67
109	7421	N7421N	RTCF	GATE	80- 10	219	7438	ZN7438E	FERB	GATE	108- 75
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3	7438	7438DC	FSC	GATE	99- 14	113	7460	N7460F	PHIN	GATE	114- 2
4	7438	7438PC	FSC	GATE	99- 15	114	7460	N7460F	VALG	GATE	114- 2
5	7440	DM7440N	NSC	GATE	99- 68	115	7460	N7460N	MULB	GATE	114- 3
6	7440	ZN7440E	FERR	GATE	110- 56	116	7460	N7460N	PHIN	GATE	114- 3
7	7440	ZN7440F	FERR	GATE	110- 57	117	7460	N7460N	VALG	GATE	114- 3
8	7440	SN7440J	TII	GATE	108- 45	118	7460	DM7460N	NSC	GATE	113- 89
9	7440	SN7440N	TII	GATE	108- 46	119	7460	N7460E	FERR	GATE	114- 81
10	7441	DM7441AN	NSC	DECODER	119- 34	120	7460	ZN7460F	FERR	GATE	114- 82
11	7442	N7442F	MULB	DECODER	120- 7	121	7460	SN7460J	TII	GATE	114- 41
12	7442	N7442F	PHIN	DECODER	120- 7	122	7460	SN7460N	TII	GATE	114- 42
13	7442	N7442F	RTCF	DECODER	120- 7	123	7470	7470PC	FSC	FLIP FLOP	49- 57
14	7442	N7442F	VALG	DECODER	120- 7	124	7470	N7470F	MULB	FLIP FLOP	45- 80
15	7442	N7442N	MULB	DECODER	120- 8	125	7470	N7470F	PHIN	FLIP FLOP	45- 80
16	7442	N7442N	PHIN	DECODER	120- 8	126	7470	N7470F	VALG	FLIP FLOP	45- 80
17	7442	N7442N	RTCF	DECODER	120- 8	127	7470	N7470N	MULB	FLIP FLOP	45- 81
18	7442	N7442N	SIC	DECODER	120- 8	128	7470	N7470N	PHIN	FLIP FLOP	45- 81
19	7442	N7442N	VALG	DECODER	120- 8	129	7470	N7470N	VALG	FLIP FLOP	45- 81
20	7442	DM7442N	NSC	DECODER	119- 35	130	7470	DM7470N	NSC	FLIP FLOP	49- 64
21	7442	ZN7442E	FERR	DECODER	120- 56	131	7470	ZN7470E	FERR	FLIP FLOP	49- 19
22	7442	ZN7442J	FERR	DECODER	120- 57	132	7470	ZN7470F	FERR	FLIP FLOP	49- 20
23	7442	SN7442AJ	TII	DECODER	120- 41	133	7470	SN7470J	TII	FLIP FLOP	49- 76
24	7442	SN7442AN	TII	DECODER	120- 42	134	7470	SN7470N	TII	FLIP FLOP	49- 77
25	7442	7442ADC	FSC	DECODER	120- 64	135	7472	7472DC	FSC	FLIP FLOP	49- 58
26	7442	7442APC	FSC	DECODER	120- 65	136	7472	7472PC	FSC	FLIP FLOP	49- 59
27	7443	N7443F	MULB	DECODER	121- 9	137	7472	N7472F	MULB	FLIP FLOP	45- 82
28	7443	N7443F	PHIN	DECODER	121- 9	138	7472	N7472F	PHIN	FLIP FLOP	45- 82
29	7443	N7443F	VALG	DECODER	121- 9	139	7472	N7472F	VALG	FLIP FLOP	45- 82
30	7443	N7443N	MULB	DECODER	120- 9	140	7472	N7472N	MULB	FLIP FLOP	45- 83
31	7443	N7443N	PHIN	DECODER	120- 9	141	7472	N7472N	PHIN	FLIP FLOP	45- 83
32	7443	N7443N	VALG	DECODER	120- 9	142	7472	N7472N	VALG	FLIP FLOP	45- 83
33	7443	SN7443AJ	TII	DECODER	121- 14	143	7472	DM7472N	NSC	FLIP FLOP	49- 65
34	7443	SN7443AN	TII	DECODER	121- 15	144	7472	ZN7472E	FERR	FLIP FLOP	49- 21
35	7444	N7444F	MULB	DECODER	121- 65	145	7472	ZN7472J	FERR	FLIP FLOP	49- 22
36	7444	N7444F	PHIN	DECODER	121- 65	146	7472	SN7472J	TII	FLIP FLOP	49- 78
37	7444	N7444F	VALG	DECODER	121- 65	147	7472	SN7472N	TII	FLIP FLOP	49- 79
38	7444	N7444N	MULB	DECODER	121- 66	148	7473	7473DC	FSC	FLIP FLOP	42- 97
39	7444	N7444N	PHIN	DECODER	121- 66	149	7473	7473PC	FSC	FLIP FLOP	42- 98
40	7444	N7444N	VALG	DECODER	121- 66	150	7473	N7473F	MULB	FLIP FLOP	45- 84
41	7444	SN7444AJ	TII	DECODER	121- 71	151	7473	N7473F	PHIN	FLIP FLOP	45- 84
42	7444	SN7444AN	TII	DECODER	121- 72	152	7473	N7473F	RTCF	FLIP FLOP	45- 84
43	7445	DM7445N	NSC	DECODER	119- 36	153	7473	N7473F	VALG	FLIP FLOP	45- 84
44	7445	SN7445J	TII	DECODER	120- 43	154	7473	N7473N	MULB	FLIP FLOP	45- 85
45	7445	SN7445N	TII	DECODER	120- 44	155	7473	N7473N	PHIN	FLIP FLOP	45- 85
46	7445	7445DC	FSC	DECODER	119- 14	156	7473	N7473N	SIC	FLIP FLOP	45- 85
47	7445	7445PC	FSC	DECODER	119- 15	157	7473	N7473N	SIC	FLIP FLOP	45- 85
48	7447	SN7447J	TII	DECODER	120- 84	158	7473	N7473N	VALG	FLIP FLOP	45- 85
49	7447	SN7447N	TII	DECODER	120- 85	159	7473	DM7473N	NSC	FLIP FLOP	43- 4
50	7450	N7450F	MULB	GATE	113-108	160	7473	N7473E	FERR	FLIP FLOP	49- 23
51	7450	N7450F	PHIN	GATE	113-108	161	7473	ZN7473J	FERR	FLIP FLOP	49- 24
52	7450	N7450F	RTCF	GATE	113-108	162	7473	SN7473J	TII	FLIP FLOP	47- 1
53	7450	N7450F	VALG	GATE	113-108	163	7473	SN7473N	TII	FLIP FLOP	47- 2
54	7450	N7450N	MULB	GATE	113-109	164	7474	7474DC	FSC	FLIP FLOP	51- 49
55	7450	N7450N	PHIN	GATE	113-109	165	7474	7474PC	FSC	FLIP FLOP	51- 50
56	7450	N7450N	RTCF	GATE	113-109	166	7474	N7474F	MULB	FLIP FLOP	52- 55
57	7450	N7450N	VALG	GATE	113-109	167	7474	N7474F	PHIN	FLIP FLOP	52- 55
58	7450	DM7450N	NSC	GATE	83-106	168	7474	N7474F	RTCF	FLIP FLOP	52- 55
59	7450	ZN7450E	FERR	GATE	113- 32	169	7474	N7474N	MULB	FLIP FLOP	52- 55
60	7450	ZN7450F	FERR	GATE	113- 33	170	7474	N7474N	PHIN	FLIP FLOP	52- 56
61	7450	SN7450J	TII	GATE	87- 8	171	7474	N7474N	PHIN	FLIP FLOP	52- 56
62	7450	SN7450N	TII	GATE	87- 9	172	7474	N7474N	RTCF	FLIP FLOP	52- 56
63	7450	7450DC	FSC	GATE	83- 8	173	7474	N7474N	SIC	FLIP FLOP	52- 56
64	7450	7450PC	FSC	GATE	83- 8	174	7474	N7474N	VALG	FLIP FLOP	52- 56
65	7451	N7451F	MULB	GATE	86- 32	175	7474	DM7474N	NSC	FLIP FLOP	51- 62
66	7451	N7451F	PHIN	GATE	86- 32	176	7474	ZN7474E	FERR	FLIP FLOP	54- 81
67	7451	N7451F	RTCF	GATE	86- 32	177	7474	ZN7474F	FERR	FLIP FLOP	54- 82
68	7451	N7451F	VALG	GATE	86- 32	178	7474	SN7474J	TII	FLIP FLOP	53- 24
69	7451	N7451N	MULB	GATE	86- 33	179	7474	SN7474N	TII	FLIP FLOP	53- 25
70	7451	N7451N	PHIN	GATE	86- 33	180	7475	7475DC	FSC	LATCHES	179- 3
71	7451	N7451N	RTCF	GATE	86- 33	181	7475	7475PC	FSC	LATCHES	51- 51
72	7451	N7451N	SIC	GATE	86- 33	182	7475	N7475F	MULB	LATCHES	177- 68
73	7451	N7451N	VALG	GATE	86- 33	183	7475	N7475F	PHIN	LATCHES	177- 68
74	7451	DM7451N	NSC	GATE	83-107	184	7475	N7475F	RTCF	LATCHES	177- 68
75	7451	ZN7451E	FERR	GATE	113- 34	185	7475	N7475F	VALG	LATCHES	177- 68
76	7451	ZN7451F	FERR	GATE	113- 35	186	7475	N7475N	MULB	LATCHES	177- 69
77	7451	SN7451J	TII	GATE	87- 10	187	7475	N7475N	PHIN	LATCHES	177- 69
78	7451	SN7451J	TII	GATE	87- 11	188	7475	N7475N	RTCF	LATCHES	177- 69
79	7451	SN7451N	TII	GATE	87- 12	189	7475	N7475N	SIC	LATCHES	177- 69
80	7451	7451DC	FSC	GATE	83- 87	190	7475	N7475N	VALG	LATCHES	177- 69
81	7451	7451PC	FSC	GATE	83- 88	191	7475	DM7475N	NSC	LATCHES	177- 49
82	7453	7453DC	FSC	GATE	83- 89	192	7475	ZN7475E	FERR	FLIP FLOP	54- 63
83	7453	7453PC	FSC	GATE	83- 90	193	7475	SN7475J	TII	LATCHES	177- 80
84	7453	N7453F	MULB	GATE	113-110	194	7475	SN7475N	TII	LATCHES	177- 81
85	7453	N7453F	PHIN	GATE	113-110	195	7476	7476DC	FSC	FLIP FLOP	42- 99
86	7453	N7453F	VALG	GATE	113-110	196	7476	7476PC	FSC	FLIP FLOP	42-100
87	7453	N7453N	MULB	GATE	114- 1	197	7476	TC7476BP	TOSJ	FLIP FLOP	34- 85
88	7453	N7453N	PHIN	GATE	114- 1	198	7476	N7476F	MULB	FLIP FLOP	45- 86
89	7453	N7453N	VALG	GATE	114- 1	199	7476	N7476F	PHIN	FLIP FLOP	45- 86
90	7453	DM7453N	NSC	GATE	83-108	200	7476	N7476F	RTCF	FLIP FLOP	45- 86
91	7453	ZN7453E	FERR	GATE	82- 59	201	7476	N7476F	VALG	FLIP FLOP	45- 86
92	7453	ZN7453F	FERR	GATE	82- 60	202	7476	N7476N	MULB	FLIP FLOP	45- 87
93	7453	SN7453J	TII	GATE	87- 13	203	7476	N7476N	PHIN	FLIP FLOP	45- 87
94	7453	SN7453J	TII	GATE	87- 14	204	7476	N7476N	RTCF	FLIP FLOP	45- 87
95	7453	SN7453N	TII	GATE	87- 15	205	7476	N7476N	SIC	FLIP FLOP	45- 87
96	7454	7454DC	FSC	GATE	83- 91	206	7476	N7476N	VALG	FLIP FLOP	45- 87
97	7454	7454PC	FSC	GATE	83- 92	207	7476	DM7476N	NSC	FLIP FLOP	43- 5
98	7454	N7454F	MULB	GATE	86- 34	208	7476	ZN7476E	FERR	FLIP FLOP	49- 25
99	7454	N7454F	PHIN	GATE	86- 34	209	7476	SN7476J	TII	FLIP FLOP	47- 3
100	7454	N7454F	VALG	GATE	86- 34	210	7476	SN7476N	TII	FLIP FLOP	47- 4
101	7454	N7454N	MULB	GATE	86- 35	211	7480	N7480F	MULB	ADDER	160- 68
102	7454	N7454N	PHIN	GATE	86- 35	212	7480	N7480F	PHIN	ADDER	160- 68
103	7454	N7454N	VALG	GATE	86- 35	213	7480	N7480F	VALG	ADDER	160- 68
104	7454	DM7454N	NSC	GATE	83-109	214	7480	N7480N	MULB	ADDER	160- 69
105	7454	ZN7454E	FERR	GATE	82- 61	215	7480	N7480N	PHIN	ADDER	160- 69
106	7454	ZN7454F	FERR	GATE	82- 62	216	7480	N7480N	VALG	ADDER	160- 69
107	7454	SN7454J	TII	GATE	87- 16	217	7480	SN7480J	TII	ADDER	160- 74
108	7454	SN7454J	TII	GATE	87- 17	218	7480	SN7480N	TII	ADDER	160- 75
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2	7483	7483APC	FSC	ADDER	161- 25	112	7555	DM7555J#mil	NSC	COUNTER	151- 54
3	7483	N7483F	MULB	ADDER	162- 22	113	7555	DM7555N	NSC	COUNTER	142- 96
4	7483	N7483F	PHIN	ADDER	162- 22	114	7555	DM7555W#mil	NSC	COUNTER	151- 55
5	7483	N7483F	RTCF	ADDER	162- 22	115	7555	ICM7555IPA	INL	TIME DELAY	122- 70
6	7483	N7483F	VALG	ADDER	162- 22	116	7555	ICM7555ITY	INL	TIME DELAY	122- 71
7	7483	N7483N	MULB	ADDER	162- 23	117	7555	ICM7555MTY	INL	TIME DELAY	122- 72
8	7483	N7483N	PHIN	ADDER	162- 23	118	7556	DM7556J#mil	NSC	COUNTER	148- 50
9	7483	N7483N	RTCF	ADDER	162- 23	119	7556	DM7556N	NSC	COUNTER	149- 30
10	7483	N7483N	SIC	ADDER	162- 23	120	7556	DM7556W#mil	NSC	COUNTER	148- 51
11	7483	N7483N	VALG	ADDER	162- 23	121	7556	ICM7556IPD	INL	TIME DELAY	122- 73
12	7483	DM7483N	NSC	ADDER	162- 21	122	7556	ICM7556MDD	INL	TIME DELAY	122- 74
13	7483	SN7483AJ	TII	ADDER	161- 68	123	7560	DM7560J	NSC	COUNTER	142- 9
14	7483	SN7483AN	TII	ADDER	161- 69	124	7560	DM7560W	NSC	COUNTER	142- 10
15	7485	N7485F	MULB	MAGN COMP	166- 26	125	7563	DM7563J	NSC	COUNTER	147- 80
16	7485	N7485F	PHIN	MAGN COMP	166- 26	126	7563	DM7563W	NSC	COUNTER	147- 81
17	7485	N7485F	RTCF	MAGN COMP	166- 26	127	7613	DM7613J#mil	NSC	FLIP FLOP	53- 61
18	7485	N7485F	VALG	MAGN COMP	166- 26	128	7613	DM7613W#mil	NSC	FLIP FLOP	53- 62
19	7485	N7485N	MULB	MAGN COMP	166- 27	129	7819	DM7819J	NSC	GATE	78- 5
20	7485	N7485N	PHIN	MAGN COMP	166- 27	130	7819	DM7819N	NSC	GATE	78- 6
21	7485	N7485N	RTCF	MAGN COMP	166- 27	131	7819	DM7819W	NSC	GATE	78- 7
22	7485	N7485N	SIC	MAGN COMP	166- 27	132	7819	DS7819J	NSC	GATE	78- 11
23	7485	N7485N	VALG	MAGN COMP	166- 27	133	7819	DS7819W	NSC	GATE	78- 12
24	7485	DM7485N	NSC	MAGN COMP	166- 24	134	7853	DM7853J	NSC	TIME DELAY	125- 69
25	7485	SN7485J	TII	MAGN COMP	166- 37	135	7853	DM7853W	NSC	TIME DELAY	125- 70
26	7485	SN7485N	TII	MAGN COMP	166- 38	136	7875	DM7875AD,BD	NSC	MULTIPLIER	163- 41
27	7486	7486DC	FSC	GATE	111- 73	137	7875	DM7875AJ#mil	NSC	MULTIPLIER	163- 42
28	7486	7486PC	FSC	GATE	111- 74	138	7875	DM7875AW#mil	NSC	MULTIPLIER	163- 43
29	7486	N7486F	MULB	GATE	112- 51	139	7875	DM7875BJ#mil	NSC	MULTIPLIER	163- 44
30	7486	N7486F	PHIN	GATE	112- 51	140	7875	DM7875BW#mil	NSC	MULTIPLIER	163- 45
31	7486	N7486F	RTCF	GATE	112- 51	141	7900	LC7900	TSAJ	CLOCK/MV	155- 83
32	7486	N7486F	VALG	GATE	112- 51	142	7960	LC7960	TSAJ	COUNTER	129- 5
33	7486	N7486N	MULB	GATE	112- 52	143	7961	LC7961	TSAJ	COUNTER	129- 6
34	7486	N7486N	PHIN	GATE	112- 52	144	8000	NS8000A	SSE	SPECIAL	183- 24
35	7486	N7486N	RTCF	GATE	112- 52	145	8091	DM8091J	NSC	GATE	99- 69
36	7486	N7486N	SIC	GATE	112- 52	146	8091	DM8091N	NSC	GATE	99- 70
37	7486	N7486N	VALG	GATE	112- 52	147	8091	DM8091W	NSC	GATE	99- 71
38	7486	DM7486N	NSC	GATE	111- 79	148	8092	DM8092J	NSC	GATE	99- 72
39	7486	ZN7486E	FERR	GATE	113- 4	149	8092	DM8092N	NSC	GATE	99- 73
40	7486	ZN7486J	FERR	GATE	113- 5	150	8092	DM8092W	NSC	GATE	99- 74
41	7486	SN7486J	TII	GATE	112- 80	151	8120	AmZ8120	AMD	FLIP FLOP	51- 56
42	7486	SN7486N	TII	GATE	112- 81	152	8121	AmZ8121	AMD	MAGN COMP	165-101
43	7490	7490ADC	FSC	COUNTER	142- 81	153	8130	DM8130D	NSC	MAGN COMP	167- 3
44	7490	7490APC	FSC	COUNTER	142- 82	154	8130	DM8130F	NSC	MAGN COMP	167- 4
45	7490	N7490F	MULB	COUNTER	140- 13	155	8130	DM8130N	NSC	MAGN COMP	167- 5
46	7490	N7490F	PHIN	COUNTER	140- 13	156	8131	DM8131J	NSC	MAGN COMP	165-108
47	7490	N7490F	RTCF	COUNTER	140- 13	157	8131	DM8131N	NSC	MAGN COMP	165-109
48	7490	N7490F	VALG	COUNTER	140- 13	158	8133	AMZ8133	AMD	LATCHES	179- 90
49	7490	N7490N	MULB	COUNTER	140- 14	159	8136	DM8136N	NSC	MAGN COMP	165-110
50	7490	N7490N	PHIN	COUNTER	140- 14	160	8160	DM8160J	NSC	MAGN COMP	166- 98
51	7490	N7490N	RTCF	COUNTER	140- 14	161	8160	DM8160N	NSC	MAGN COMP	166- 99
52	7490	N7490N	SIC	COUNTER	140- 14	162	8160	DM8160W	NSC	MAGN COMP	166-100
53	7490	N7490N	VALG	COUNTER	140- 14	163	8162	N8162A	NULB	TIME DELAY	127- 19
54	7490	DM7490AN	NSC	COUNTER	152- 27	164	8162	N8162A	PHIN	TIME DELAY	127- 19
55	7490	DM7490N	NSC	COUNTER	143- 63	165	8162	N8162F	MULB	TIME DELAY	127- 20
56	7490	ZN7490E	FERR	COUNTER	140- 53	166	8162	N8162F	PHIN	TIME DELAY	127- 20
57	7490	ZN7490F	FERR	COUNTER	140- 54	167	8162	N8162J	MULB	TIME DELAY	127- 21
58	7490	SN7490AJ	TII	COUNTER	143- 56	168	8162	N8162J	PHIN	TIME DELAY	127- 21
59	7490	SN7490AN	TII	COUNTER	143- 57	169	8162	S8162A	MULB	TIME DELAY	127- 22
60	7492	7492ADC	FSC	COUNTER	153- 29	170	8162	S8162A	PHIN	TIME DELAY	127- 22
61	7492	7492APC	FSC	COUNTER	153- 30	171	8162	S8162F	MULB	TIME DELAY	127- 23
62	7492	N7492F	MULB	COUNTER	153- 15	172	8162	S8162F	PHIN	TIME DELAY	127- 23
63	7492	N7492F	PHIN	COUNTER	153- 15	173	8162	S8162J	MULB	TIME DELAY	127- 24
64	7492	N7492F	RTCF	COUNTER	153- 15	174	8162	S8162J	PHIN	TIME DELAY	127- 24
65	7492	N7492F	VALG	COUNTER	153- 15	175	8173	AMZ8173	AMD	LATCHES	179- 74
66	7492	N7492N	MULB	COUNTER	153- 16	176	8200	DM8200J	NSC	MAGN COMP	166- 51
67	7492	N7492N	PHIN	COUNTER	153- 16	177	8200	DM8200N	NSC	MAGN COMP	166- 52
68	7492	N7492N	RTCF	COUNTER	153- 16	178	8206	8206(A)	ITL	SPECIAL	182- 59
69	7492	N7492N	SIC	COUNTER	153- 16	179	8220	DM8220J	NSC	PARITY GEN	173- 42
70	7492	N7492N	VALG	COUNTER	153- 16	180	8220	DM8220N	NSC	PARITY GEN	173- 43
71	7492	DM7492AN	NSC	COUNTER	152- 28	181	8241	N8241F	MULB	GATE	113- 9
72	7492	DM7492AN	NSC	COUNTER	152- 28	182	8241	N8241F	PHIN	GATE	113- 9
73	7492	ZN7492AE	FERR	COUNTER	153- 43	183	8241	N8241F	VALG	GATE	113- 9
74	7492	ZN7492AJ	FERR	COUNTER	153- 44	184	8241	N8241N	MULB	GATE	113- 10
75	7492	ZN7492E	FERR	COUNTER	152- 60	185	8241	N8241N	PHIN	GATE	113- 10
76	7492	ZN7492F	FERR	COUNTER	152- 61	186	8241	N8241N	VALG	GATE	113- 10
77	7492	SN7492AJ	TII	COUNTER	153- 39	187	8241	N8241Q	MULB	GATE	113- 11
78	7492	SN7492AN	TII	COUNTER	153- 40	188	8241	N8241Q	PHIN	GATE	113- 11
79	7493	7493ADC	FSC	COUNTER	152- 65	189	8241	S8241F	MULB	GATE	113- 15
80	7493	7493APC	FSC	COUNTER	152- 66	190	8241	S8241F	PHIN	GATE	113- 15
81	7493	N7493F	MULB	COUNTER	145- 8	191	8241	S8241F	VALG	GATE	113- 15
82	7493	N7493F	PHIN	COUNTER	145- 8	192	8241	S8241W	MULB	GATE	113- 16
83	7493	N7493F	RTCF	COUNTER	145- 8	193	8241	S8241W	PHIN	GATE	113- 16
84	7493	N7493F	VALG	COUNTER	145- 8	194	8241	S8241W	VALG	GATE	113- 16
85	7493	N7493N	MULB	COUNTER	145- 9	195	8242	N8242F	MULB	GATE	114- 83
86	7493	N7493N	PHIN	COUNTER	145- 9	196	8242	N8242F	PHIN	GATE	114- 83
87	7493	N7493N	RTCF	COUNTER	145- 9	197	8242	N8242F	VALG	GATE	114- 83
88	7493	N7493N	SIC	COUNTER	145- 9	198	8242	N8242N	MULB	GATE	114- 84
89	7493	N7493N	VALG	COUNTER	145- 9	199	8242	N8242N	PHIN	GATE	114- 84
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92	7493	ZN7493AE	FERR	COUNTER	150- 12	202	8242	N8242Q	MULB	GATE	93- 40
93	7493	ZN7493AJ	FERR	COUNTER	150- 13	203	8242	N8242Q	PHIN	GATE	93- 40
94	7493	ZN7493E	FERR	COUNTER	145- 61	204	8242	S8242A	PHIN	GATE	93- 48
95	7493	ZN7493F	FERR	COUNTER	145- 62	205	8242	S8242F	MULB	GATE	89- 76
96	7493	ZN7493AJ	TII	COUNTER	150- 8	206	8242	S8242F	PHIN	GATE	89- 76
97	7493	SN7493AN	TII	COUNTER	150- 9	207	8242	S8242F	VALG	GATE	89- 76
98	7497	SN7497J	TII	FREQ DIVID	158- 14	208	8242	S8242W	MULB	GATE	114- 85
99	7497	SN7497N	TII	FREQ DIVID	158- 15	209	8242	S8242W	PHIN	GATE	114- 85
100	7511	DM7511J	NSC	FLIP FLOP	51- 63	210	8242	S8242W	VALG	GATE	114- 85
101	7511	DM7511N	NSC	FLIP FLOP	51- 64	211	8243	N8243F	MULB	SPECIAL	183-105
102	7511	DM7511W	NSC	FLIP FLOP	51- 65	212	8243	N8243F	PHIN	SPECIAL	183-105
103	7512	DM7512J	NSC	FLIP FLOP	49- 40	213	8243	N8243N	VALG	SPECIAL	183-105
104	7512	DM7512N	NSC	FLIP FLOP	49- 41	214	8243	N8243N	MULB	SPECIAL	183-106
105	7512	DM7512W	NSC	FLIP FLOP	49- 42	215	8243	N8243N	PHIN	SPECIAL	183-106
106	7552	DM7552J	NSC	COUNTER	144- 22	216	8243	N8243N	VALG	SPECIAL	183-106
107	7552	DM7552W	NSC	COUNTER	144- 23	217	8243	S8243F	MULB	SPECIAL	184- 2
108	7553	DM7553J	NSC	LATCHES	180-108	218	8243	S8243F	PHIN	SPECIAL	184- 2
109	7553	DM7553W	NSC	LATCHES	180-109	219	8243	S8243F	VALG	SPECIAL	184- 2
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2	8243	S8243Q	VALG	SPECIAL	184- 3	112	8283	SAB8283C	SIEG	LATCHES	177- 15
3	8250	N8250F	MULB	DECODER	118- 18	113	8283	SAB8283P	SIEG	LATCHES	177- 16
4	8250	N8250F	PHIN	DECODER	118- 18	114	8284	N8284A	AMD	COUNTER	153- 6
5	8250	N8250F	VALG	DECODER	118- 18	115	8284	N8284F	AMD	COUNTER	153- 7
6	8250	N8250N	MULB	DECODER	118- 19	116	8284	N8284F	MULB	COUNTER	153- 7
7	8250	N8250N	PHIN	DECODER	118- 19	117	8284	N8284F	PHIN	COUNTER	153- 7
8	8250	N8250N	VALG	DECODER	118- 19	118	8284	N8284Q	MULB	COUNTER	144- 72
9	8250	S8250A	SIC	DECODER	118- 20	119	8284	N8284Q	PHIN	COUNTER	144- 72
10	8250	S8250F	MULB	DECODER	118- 21	120	8284	S8284F	AMD	COUNTER	153- 8
11	8250	S8250F	PHIN	DECODER	118- 21	121	8285	N8285A	AMD	COUNTER	142- 22
12	8250	S8250F	SIC	DECODER	118- 21	122	8285	N8285F	AMD	COUNTER	142- 23
13	8250	S8250W	MULB	DECODER	118- 22	123	8285	N8285F	MULB	COUNTER	142- 23
14	8250	S8250W	PHIN	DECODER	118- 22	124	8285	N8285F	PHIN	COUNTER	142- 23
15	8250	S8250W	SIC	DECODER	118- 22	125	8285	N8285Q	MULB	COUNTER	139- 85
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18	8251	N8251F	VALG	DECODER	120- 10	128	8288	N8288F	MULB	COUNTER	146- 80
19	8251	N8251N	MULB	DECODER	120- 11	129	8288	N8288F	PHIN	COUNTER	146- 80
20	8251	N8251N	PHIN	DECODER	120- 11	130	8288	N8288Q	MULB	COUNTER	146- 81
21	8251	N8251N	VALG	DECODER	120- 11	131	8288	N8288Q	PHIN	COUNTER	146- 81
22	8251	S8251F	MULB	DECODER	120- 20	132	8290	N8290F	MULB	COUNTER	141- 1
23	8251	S8251F	PHIN	DECODER	120- 20	133	8290	N8290F	PHIN	COUNTER	141- 1
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25	8251	S8251W	PHIN	DECODER	120- 21	135	8290	N8290N	MULB	COUNTER	141- 2
26	8252	N8252F	MULB	DECODER	120- 12	136	8290	N8290N	PHIN	COUNTER	141- 2
27	8252	N8252F	PHIN	DECODER	120- 12	137	8290	N8290N	VALG	COUNTER	141- 2
28	8252	N8252F	VALG	DECODER	120- 12	138	8290	N8290Q	MULB	COUNTER	143- 6
29	8252	N8252N	MULB	DECODER	120- 13	139	8290	N8290Q	PHIN	COUNTER	143- 6
30	8252	N8252N	PHIN	DECODER	120- 13	140	8290	S8290F	MULB	COUNTER	141- 5
31	8252	N8252N	VALG	DECODER	120- 13	141	8290	S8290F	PHIN	COUNTER	141- 5
32	8252	S8252F	MULB	DECODER	120- 22	142	8290	S8290F	VALG	COUNTER	141- 5
33	8252	S8252F	PHIN	DECODER	120- 22	143	8290	S8290W	MULB	COUNTER	141- 6
34	8252	S8252W	MULB	DECODER	120- 23	144	8290	S8290W	PHIN	COUNTER	141- 6
35	8252	S8252W	PHIN	DECODER	120- 23	145	8290	S8290W	VALG	COUNTER	141- 6
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37	8260	N8260F	ALU	ALU	168- 44	147	8291	N8291F	PHIN	COUNTER	146- 11
38	8260	N8260F	PHIN	ALU	168- 44	148	8291	N8291F	VALG	COUNTER	146- 11
39	8260	N8260N	MULB	ALU	168- 45	149	8291	N8291N	MULB	COUNTER	146- 12
40	8260	N8260N	PHIN	ALU	168- 45	150	8291	N8291N	PHIN	COUNTER	146- 12
41	8260	N8260Q	ALU	ALU	168- 46	151	8291	N8291N	VALG	COUNTER	146- 12
42	8260	N8260Q	PHIN	ALU	168- 46	152	8291	N8291Q	MULB	COUNTER	149- 42
43	8260	S8260F	MULB	ALU	168- 47	153	8291	N8291Q	PHIN	COUNTER	149- 42
44	8260	S8260F	PHIN	ALU	168- 47	154	8291	S8291F	MULB	COUNTER	146- 13
45	8261	N8261F	MULB	SPECIAL	182- 80	155	8291	S8291F	PHIN	COUNTER	146- 13
46	8261	N8261F	PHIN	SPECIAL	182- 80	156	8291	S8291F	VALG	COUNTER	146- 13
47	8261	N8261Q	MULB	SPECIAL	182- 81	157	8291	S8291W	MULB	COUNTER	146- 14
48	8261	N8261Q	PHIN	SPECIAL	182- 81	158	8291	S8291W	PHIN	COUNTER	146- 14
49	8262	N8262F	MULB	PARITY GEN	173- 35	159	8291	S8291W	VALG	COUNTER	146- 14
50	8262	N8262F	PHIN	PARITY GEN	173- 35	160	8292	N8292F	MULB	COUNTER	139- 94
51	8262	N8262F	VALG	PARITY GEN	173- 35	161	8292	N8292F	PHIN	COUNTER	139- 94
52	8262	N8262N	MULB	PARITY GEN	173- 36	162	8292	N8292F	VALG	COUNTER	139- 94
53	8262	N8262N	PHIN	PARITY GEN	173- 36	163	8292	N8292N	MULB	COUNTER	139- 95
54	8262	N8262N	SIC	PARITY GEN	173- 36	164	8292	N8292N	PHIN	COUNTER	139- 95
55	8262	N8262N	VALG	PARITY GEN	173- 36	165	8292	N8292N	VALG	COUNTER	139- 95
56	8262	S8262F	MULB	PARITY GEN	173- 37	166	8292	N8292Q	MULB	COUNTER	140- 17
57	8262	S8262F	PHIN	PARITY GEN	173- 37	167	8292	N8292Q	PHIN	COUNTER	140- 17
58	8262	S8262F	SIC	PARITY GEN	173- 37	168	8292	S8292F	MULB	COUNTER	139- 96
59	8262	S8262F	VALG	PARITY GEN	173- 37	169	8292	S8292F	PHIN	COUNTER	139- 96
60	8262	S8262W	MULB	PARITY GEN	173- 38	170	8292	S8292F	VALG	COUNTER	139- 96
61	8262	S8262W	PHIN	PARITY GEN	173- 38	171	8292	S8292W	MULB	COUNTER	139- 97
62	8262	S8262W	SIC	PARITY GEN	173- 38	172	8292	S8292W	PHIN	COUNTER	139- 97
63	8262	S8262W	VALG	PARITY GEN	173- 38	173	8292	S8292W	VALG	COUNTER	139- 97
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65	8268	N8268F	PHIN	ADDER	160- 65	175	8293	N8293F	PHIN	COUNTER	144- 85
66	8268	N8268W	MULB	ADDER	160- 66	176	8293	N8293F	VALG	COUNTER	144- 85
67	8268	N8268W	PHIN	ADDER	160- 66	177	8293	N8293N	MULB	COUNTER	144- 86
68	8269	N8269F	MULB	MAGN COMP	166- 53	178	8293	N8293N	PHIN	COUNTER	144- 86
69	8269	N8269F	PHIN	MAGN COMP	166- 53	179	8293	N8293N	VALG	COUNTER	144- 86
70	8269	N8269W	MULB	MAGN COMP	166- 54	180	8293	N8293Q	MULB	COUNTER	145- 12
71	8269	N8269W	PHIN	MAGN COMP	166- 54	181	8293	N8293Q	PHIN	COUNTER	145- 12
72	8280	N8280F	MULB	COUNTER	140- 15	182	8293	S8293F	MULB	COUNTER	144- 87
73	8280	N8280F	PHIN	COUNTER	140- 15	183	8293	S8293F	PHIN	COUNTER	144- 87
74	8280	N8280F	VALG	COUNTER	140- 15	184	8293	S8293F	VALG	COUNTER	144- 87
75	8280	N8280N	MULB	COUNTER	140- 16	185	8293	S8293W	MULB	COUNTER	144- 88
76	8280	N8280N	PHIN	COUNTER	140- 16	186	8293	S8293W	PHIN	COUNTER	144- 88
77	8280	N8280N	VALG	COUNTER	140- 16	187	8293	S8293W	VALG	COUNTER	144- 88
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80	8280	DM8280J	NSC	COUNTER	149- 12	190	8301	DM8301W	NSC	DECODER	119- 39
81	8280	DM8280N	NSC	COUNTER	149- 13	191	8310	DM8310N	NSC	COUNTER	151- 56
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83	8280	S8280F	MULB	COUNTER	140- 20	193	8334	DM8334J	NSC	LATCHES	180- 66
84	8280	S8280F	PHIN	COUNTER	140- 20	194	8334	DM8334N	NSC	LATCHES	180- 67
85	8280	S8280F	SIC	COUNTER	140- 20	195	8334	DM8334W	NSC	LATCHES	180- 68
86	8280	S8280F	VALG	COUNTER	140- 20	196	8340	DP8340J	NSC	SPECIAL	184- 79
87	8280	S8280W	MULB	COUNTER	140- 21	197	8340	DP8340N	NSC	SPECIAL	184- 80
88	8280	S8280W	PHIN	COUNTER	140- 21	198	8415	N8415A	MULB	GATE	67-107
89	8280	S8280W	SIC	COUNTER	140- 21	199	8415	N8415A	PHIN	GATE	67-107
90	8280	S8280W	VALG	COUNTER	140- 21	200	8415	N8415F	MULB	GATE	67-108
91	8281	N8281F	MULB	COUNTER	145- 10	201	8415	N8415F	PHIN	GATE	67-108
92	8281	N8281F	PHIN	COUNTER	145- 10	202	8415	N8415J	MULB	GATE	67-109
93	8281	N8281F	VALG	COUNTER	145- 10	203	8415	N8415J	PHIN	GATE	67-109
94	8281	N8281N	MULB	COUNTER	145- 11	204	8415	S8415A	MULB	GATE	68- 3
95	8281	N8281N	PHIN	COUNTER	145- 11	205	8415	S8415A	PHIN	GATE	68- 3
96	8281	N8281N	VALG	COUNTER	145- 11	206	8415	S8415F	MULB	GATE	68- 4
97	8281	N8281Q	MULB	COUNTER	146- 79	207	8415	S8415F	PHIN	GATE	68- 4
98	8281	N8281Q	PHIN	COUNTER	146- 79	208	8415	S8415J	PHIN	GATE	68- 5
99	8281	DM8281J	NSC	COUNTER	143- 41	209	8416	N8416A	MULB	GATE	69- 36
100	8281	DM8281N	NSC	COUNTER	143- 42	210	8416	N8416A	PHIN	GATE	69- 36
101	8281	DM8281W	NSC	COUNTER	143- 43	211	8416	N8416F	MULB	GATE	69- 37
102	8281	S8281F	MULB	COUNTER	145- 15	212	8416	N8416F	PHIN	GATE	69- 37
103	8281	S8281F	PHIN	COUNTER	145- 15	213	8416	N8416J	MULB	GATE	69- 38
104	8281	S8281F	SIC	COUNTER	145- 15	214	8416	N8416J	PHIN	GATE	69- 38
105	8281	S8281F	VALG	COUNTER	145- 15	215	8416	S8416A	MULB	GATE	69- 39
106	8281	S8281W	MULB	COUNTER	145- 16	216	8416	S8416A	PHIN	GATE	69- 39
107	8281	S8281W	PHIN	COUNTER	145- 16	217	8416	S8416F	MULB	GATE	69- 40
108	8281	S8281W	SIC	COUNTER	145- 16	218	8416	S8416F	PHIN	GATE	69- 40
109	8281	S8281W	VALG	COUNTER	145- 16	219	8416	S8416J	MULB	GATE	69- 41
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3	8417	N8417F	MULB	GATE	68- 1	113	8504	MC8504P	MOTA	SPECIAL	182- 22
4	8417	N8417F	PHIN	GATE	68- 1	114	8506	MC8506L	MOTA	SPECIAL	182- 13
5	8417	N8417J	MULB	GATE	68- 2	115	8506	MC8506P	MOTA	SPECIAL	182- 14
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8	8417	S8417A	PHIN	GATE	68- 6	118	8511	DM8511W	NSC	FLIP FLOP	51- 68
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10	8417	S8417F	PHIN	GATE	68- 7	120	8552	DM8552J	NSC	COUNTER	144- 24
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86	8821	S8821J	PHIN	FLIP FLOP	47- 85	196	8855	N8855A	MULB	GATE	110-102
87	8822	N8822A	MULB	FLIP FLOP	47- 63	197	8855	N8855A	PHIN	GATE	110-102
88	8822	N8822A	PHIN	FLIP FLOP	47- 63	198	8855	N8855F	MULB	GATE	110-103
89	8822	N8822F	MULB	FLIP FLOP	47- 64	199	8855	N8855F	PHIN	GATE	110-103
90	8822	N8822F	PHIN	FLIP FLOP	47- 64	200	8855	N8855J	MULB	GATE	110-104
91	8822	N8822J	MULB	FLIP FLOP	47- 65	201	8855	N8855J	PHIN	GATE	110-104
92	8822	N8822J	PHIN	FLIP FLOP	47- 65	202	8870	S8870A	MULB	GATE	109- 15
93	8822	S8822A	MULB	FLIP FLOP	47- 86	203	8870	S8870A	PHIN	GATE	109- 15
94	8822	S8822A	PHIN	FLIP FLOP	47- 86	204	8870	S8870F	MULB	GATE	109- 16
95	8822	S8822F	MULB	FLIP FLOP	47- 87	205	8870	S8870F	PHIN	GATE	109- 16
96	8822	S8822F	PHIN	FLIP FLOP	47- 87	206	8870	S8870J	MULB	GATE	109- 17
97	8822	S8822J	MULB	FLIP FLOP	47- 88	207	8870	S8870J	PHIN	GATE	109- 17
98	8822	S8822J	PHIN	FLIP FLOP	47- 88	208	8870	N8870A	MULB	GATE	109- 3
99	8824	N8824B	MULB	FLIP FLOP	47- 66	209	8870	N8870A	PHIN	GATE	109- 3
100	8824	N8824B	PHIN	FLIP FLOP	47- 66	210	8870	N8870F	MULB	GATE	109- 4
101	8824	S8824B	MULB	FLIP FLOP	47- 89	211	8870	N8870F	PHIN	GATE	109- 4
102	8824	S8824B	PHIN	FLIP FLOP	47- 89	212	8870	N8870J	MULB	GATE	109- 5
103	8825	N8825A	MULB	FLIP FLOP	47- 67	213	8870	N8870J	PHIN	GATE	109- 5
104	8825	N8825A	PHIN	FLIP FLOP	47- 67	214	8875	S8875A	MULB	GATE	93- 51
105	8825	N8825F	MULB	FLIP FLOP	47- 68	215	8875	S8875A	PHIN	GATE	93- 51
106	8825	N8825F	PHIN	FLIP FLOP	47- 68	216	8875	S8875F	MULB	GATE	93- 52
107	8825	N8825J	MULB	FLIP FLOP	47- 69	217	8875	S8875F	PHIN	GATE	93- 52
108	8825	N8825J	PHIN	FLIP FLOP	47- 69	218	8875	S8875J	MULB	GATE	93- 53
109	8825	S8825A	MULB	FLIP FLOP	47- 90	219	8875	S8875J	PHIN	GATE	93- 53
110	8825	S8825A	PHIN	FLIP FLOP	47- 90	220	8875				

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2	8875	N8875A	MULB	GATE	93- 43	112	9093	9093FM	FSC	FLIP FLOP	37- 55
3	8875	N8875A	PHIN	GATE	93- 43	113	9093	DM9093N	NSC	FLIP FLOP	38- 9
4	8875	N8875F	MULB	GATE	93- 44	114	9094	9094BC	SGAI	FLIP FLOP	37- 61
5	8875	N8875F	PHIN	GATE	93- 44	115	9094	9094DC	FSC	FLIP FLOP	37- 62
6	8875	N8875J	MULB	GATE	93- 45	116	9094	9094DC	SGAI	FLIP FLOP	37- 62
7	8875	N8875J	PHIN	GATE	93- 45	117	9094	9094DM	FSC	FLIP FLOP	37- 63
8	8880	S8880A	MULB	GATE	109- 18	118	9094	9094DM	SGAI	FLIP FLOP	37- 63
9	8880	S8880A	PHIN	GATE	109- 18	119	9094	9094FC	SGAI	FLIP FLOP	37- 64
10	8880	S8880F	MULB	GATE	109- 19	120	9094	9094FM	FSC	FLIP FLOP	37- 65
11	8880	S8880F	PHIN	GATE	109- 19	121	9094	9094FM	SGAI	FLIP FLOP	37- 65
12	8880	S8880J	MULB	GATE	109- 20	122	9094	DM9094N	NSC	FLIP FLOP	38- 10
13	8880	S8880J	PHIN	GATE	109- 20	123	9097	9097BC	SGAI	FLIP FLOP	37- 66
14	8880	N8880A	MULB	GATE	109- 6	124	9097	9097DC	FSC	FLIP FLOP	37- 67
15	8880	N8880A	PHIN	GATE	109- 6	125	9097	9097DC	SGAI	FLIP FLOP	37- 67
16	8880	N8880F	MULB	GATE	109- 7	126	9097	9097DM	FSC	FLIP FLOP	37- 68
17	8880	N8880F	PHIN	GATE	109- 7	127	9097	9097DM	SGAI	FLIP FLOP	37- 68
18	8880	N8880J	MULB	GATE	109- 8	128	9097	9097FC	SGAI	FLIP FLOP	37- 69
19	8880	N8880J	PHIN	GATE	109- 8	129	9097	9097FM	FSC	FLIP FLOP	37- 70
20	8881	S8881A	MULB	GATE	93- 84	130	9097	9097FM	SGAI	FLIP FLOP	37- 70
21	8881	S8881A	PHIN	GATE	93- 84	131	9097	DM9097N	NSC	FLIP FLOP	38- 11
22	8881	S8881F	MULB	GATE	109- 21	132	9099	9099BC	FSC	FLIP FLOP	37- 71
23	8881	S8881F	PHIN	GATE	109- 21	133	9099	9099BC	SGAI	FLIP FLOP	37- 71
24	8881	S8881J	MULB	GATE	93- 85	134	9099	9099DC	FSC	FLIP FLOP	37- 72
25	8881	S8881J	PHIN	GATE	93- 85	135	9099	9099DC	SGAI	FLIP FLOP	37- 72
26	8881	N8881F	MULB	GATE	109- 9	136	9099	9099DM	FSC	FLIP FLOP	37- 56
27	8881	N8881F	PHIN	GATE	109- 9	137	9099	9099DM	SGAI	FLIP FLOP	37- 56
28	8881	N8881J	MULB	GATE	93- 82	138	9099	9099FC	FSC	FLIP FLOP	37- 73
29	8881	N8881J	PHIN	GATE	93- 82	139	9099	9099FC	SGAI	FLIP FLOP	37- 73
30	8881	N8881N	SIC	GATE	93- 83	140	9099	9099FM	FSC	FLIP FLOP	37- 57
31	8885	S8885A	MULB	GATE	93- 54	141	9099	9099FM	SGAI	FLIP FLOP	37- 57
32	8885	S8885A	PHIN	GATE	93- 54	142	9099	DM9099N	NSC	FLIP FLOP	38- 12
33	8885	S8885F	MULB	GATE	93- 55	143	9111	9111DM	FSC	FLIP FLOP	38- 82
34	8885	S8885F	PHIN	GATE	93- 55	144	9111	9111FM	FSC	FLIP FLOP	38- 83
35	8885	S8885J	MULB	GATE	93- 56	145	9122	TC9122P	TOSJ	COUNTER	130- 72
36	8885	S8885J	PHIN	GATE	93- 56	146	9131	SP9131	PLSB	FLIP FLOP	39- 8
37	8885	N8885F	MULB	GATE	93- 46	147	9301	9301DC	AMD	DECODER	120- 66
38	8885	N8885F	PHIN	GATE	93- 46	148	9301	9301DC	FSC	DECODER	120- 66
39	8885	N8885J	MULB	GATE	93- 47	149	9301	9301DM	AMD	DECODER	120- 67
40	8885	N8885J	PHIN	GATE	93- 47	150	9301	9301DM	FSC	DECODER	120- 67
41	8898	DM8898N	NSC	SPECIAL	183- 25	151	9301	9301FM	AMD	DECODER	120- 68
42	8899	DM8899N	NSC	SPECIAL	183- 26	152	9301	9301FM	FSC	DECODER	120- 68
43	8901	SP8901	PLSB	COUNTER	152- 47	153	9301	9301PC	AMD	DECODER	120- 69
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46	9000	9000DM	FSC	FLIP FLOP	40- 11	156	9301	DM9301J	NSC	DECODER	119- 40
47	9000	9000FM	FSC	FLIP FLOP	40- 12	157	9301	DM9301N	NSC	DECODER	119- 41
48	9001	9001DC	FSC	FLIP FLOP	40- 22	158	9301	DM9301W	NSC	DECODER	116- 21
49	9001	9001DM	FSC	FLIP FLOP	40- 13	159	9302	9302FM	FSC	DECODER	120- 71
50	9001	9001FM	FSC	FLIP FLOP	40- 14	160	9304	9304DC	AMD	ADDER	160- 94
51	9002	9002DC	FSC	GATE	93-108	161	9304	9304DC	FSC	ADDER	160- 94
52	9002	9002DM	FSC	GATE	93- 98	162	9304	9304DM	AMD	ADDER	160- 95
53	9002	9002FM	FSC	GATE	93- 99	163	9304	9304DM	FSC	ADDER	160- 95
54	9002	DM9002CJ	NSC	GATE	93- 88	164	9304	9304FM	AMD	ADDER	160- 96
55	9002	DM9002CN	NSC	GATE	93- 89	165	9304	9304FM	FSC	ADDER	160- 96
56	9003	9003DC	FSC	GATE	93-109	166	9304	9304PC	AMD	ADDER	160- 97
57	9003	9003DM	FSC	GATE	93-100	167	9304	9304PC	FSC	ADDER	160- 97
58	9003	9003FM	FSC	GATE	93-101	168	9305	9305FM	FSC	COUNTER	152- 79
59	9003	DM9003CJ	NSC	GATE	93- 90	169	9305	9305PC	FSC	COUNTER	152- 80
60	9003	DM9003CN	NSC	GATE	93- 91	170	9306	9306DC	AMD	COUNTER	141-101
61	9004	9004DC	FSC	GATE	93-110	171	9306	9306DM	AMD	COUNTER	141-102
62	9004	9004DM	FSC	GATE	93-102	172	9306	9306FM	AMD	COUNTER	141-103
63	9004	9004FM	FSC	GATE	93-103	173	9306	9306PC	AMD	COUNTER	141-104
64	9004	DM9004CJ	NSC	GATE	93- 92	174	9308	S9308F	MULB	LATCHES	178- 79
65	9004	DM9004CN	NSC	GATE	93- 93	175	9308	S9308F	PHIN	LATCHES	178- 79
66	9005	9005DC	FSC	GATE	75- 98	176	9308	S9308F	VALG	LATCHES	178- 79
67	9005	9005DM	FSC	GATE	75- 94	177	9308	S9308Q	MULB	LATCHES	178- 80
68	9005	9005FM	FSC	GATE	75- 95	178	9308	S9308Q	PHIN	LATCHES	178- 80
69	9005	DM9005CJ	NSC	GATE	83- 5	179	9308	S9308Q	VALG	LATCHES	178- 80
70	9005	DM9005CN	NSC	GATE	83- 6	180	9308	9308DC	AMD	LATCHES	178- 36
71	9006	9006DC	FSC	GATE	113- 70	181	9308	9308DC	FSC	LATCHES	178- 36
72	9006	9006DM	FSC	GATE	113- 68	182	9308	9308DM	AMD	LATCHES	178- 37
73	9006	9006FM	FSC	GATE	113- 69	183	9308	9308DM	FSC	LATCHES	178- 37
74	9006	DM9006CJ	NSC	GATE	113- 66	184	9308	9308FM	AMD	LATCHES	178- 38
75	9006	DM9006CN	NSC	GATE	113- 67	185	9308	9308FM	FSC	LATCHES	178- 38
76	9007	9007DC	FSC	GATE	94- 1	186	9308	9308PC	AMD	LATCHES	178- 39
77	9007	9007DM	FSC	GATE	93-104	187	9308	9308PC	FSC	LATCHES	178- 39
78	9007	9007FM	FSC	GATE	93-105	188	9308	N9308F	MULB	LATCHES	179- 5
79	9008	9008DC	FSC	GATE	75- 99	189	9308	N9308F	PHIN	LATCHES	179- 5
80	9008	9008DM	FSC	GATE	75- 96	190	9308	N9308F	VALG	LATCHES	179- 5
81	9008	9008FM	FSC	GATE	75- 97	191	9308	N9308N	MULB	LATCHES	179- 6
82	9008	DM9008CJ	NSC	GATE	83- 7	192	9308	N9308N	PHIN	LATCHES	179- 6
83	9008	DM9008CN	NSC	GATE	83- 8	193	9308	N9308N	VALG	LATCHES	179- 6
84	9009	DM9009CJ	NSC	GATE	93- 94	194	9310	9310DC	AMD	COUNTER	140- 38
85	9009	DM9009CN	NSC	GATE	93- 95	195	9310	9310DC	FSC	COUNTER	140- 38
86	9012	9012DC	FSC	GATE	94- 2	196	9310	9310DM	AMD	COUNTER	140- 39
87	9012	9012DM	FSC	GATE	93-106	197	9310	9310DM	FSC	COUNTER	140- 39
88	9012	9012FM	FSC	GATE	93-107	198	9310	9310FM	AMD	COUNTER	140- 40
89	9012	DM9012CJ	NSC	GATE	93- 96	199	9310	9310FM	FSC	COUNTER	140- 40
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91	9014	9014DC	FSC	GATE	111- 12	201	9310	9310PC	FSC	COUNTER	139- 81
92	9014	9014DM	FSC	GATE	111- 11	202	9310	DM9310J#mil	NSC	COUNTER	151- 57
93	9014	9014FM	FSC	GATE	111- 75	203	9310	DM9310W#mil	NSC	COUNTER	151- 58
94	9015	9015DC	FSC	GATE	89- 79	204	9314	9314PC	AMD	DECODER	120- 72
95	9015	9015DM	FSC	GATE	89- 77	205	9314	S9314F	MULB	LATCHES	178- 58
96	9015	9015FM	FSC	GATE	89- 78	206	9314	S9314F	PHIN	LATCHES	178- 58
97	9016	DM9016CJ	NSC	GATE	115- 26	207	9314	S9314F	SIC	LATCHES	178- 58
98	9016	DM9016CN	NSC	GATE	115- 27	208	9314	S9314F	VALG	LATCHES	178- 58
99	9020	9020DC	FSC	FLIP FLOP	40- 23	209	9314	S9314W	MULB	LATCHES	178- 59
100	9020	9020DM	FSC	FLIP FLOP	40- 15	210	9314	S9314W	PHIN	LATCHES	178- 59
101	9020	9020FM	FSC	FLIP FLOP	40- 16	211	9314	S9314W	SIC	LATCHES	178- 59
102	9022	9022DC	FSC	FLIP FLOP	40- 24	212	9314	S9314W	VALG	LATCHES	178- 59
103	9022	9022DM	FSC	FLIP FLOP	40- 17	213	9314	9314DC	AMD	LATCHES	178- 45
104	9022	9022FM	FSC	FLIP FLOP	40- 18	214	9314	9314DC	FSC	LATCHES	178- 45
105	9024	9024DC	FSC	FLIP FLOP	40- 25	215	9314	9314DM	AMD	LATCHES	178- 46
106	9024	9024DM	FSC	FLIP FLOP	40- 19	216	9314	9314DM	FSC	LATCHES	178- 46
107	9024	9024FM	FSC	FLIP FLOP	40- 20	217	9314	9314FM	AMD	LATCHES	178- 47
108	9093	9093BC	FSC	FLIP FLOP	37- 58	218	9314	9314FM	FSC	LATCHES	178- 47
109	9093	9093DC	FSC	FLIP FLOP	37- 59	219	9314	9314PC	AMD	LATCHES	178- 48
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3	9314	N9314F	VALG	LATCHES	178- 56	113	9386	9386FM	FSC	GATE	115- 8
4	9314	N9314N	MULB	LATCHES	178- 57	114	9386	9386PC	FSC	GATE	115- 9
5	9314	N9314N	PHIN	LATCHES	178- 57	115	8401	S9401F	PHIN	SPECIAL	182- 72
6	9314	N9314N	VALG	LATCHES	178- 57	116	8401	N9401N	PHIN	SPECIAL	182- 70
7	9315	9315DC	FSC	DECODER	118- 33	117	9502	9502DC	FSC	GATE	55- 39
8	9315	9315DM	FSC	DECODER	118- 34	118	9503	9503DC	FSC	GATE	55- 40
9	9315	9315FM	FSC	DECODER	118- 35	119	9504	9504DC	FSC	GATE	71- 75
10	9315	9315PC	FSC	DECODER	118- 36	120	9534	9534DC	FSC	LATCHES	176-103
11	9316	9316DC	AMD	COUNTER	152- 82	121	9600	9600DC	AMD	TIME DELAY	125- 11
12	9316	9316DC	FSC	COUNTER	152- 82	122	9600	9600DC#	FSC	CLOCK/MV	155- 59
13	9316	9316DM	AMD	COUNTER	152- 83	123	9600	9600DM	AMD	TIME DELAY	124-107
14	9316	9316DM	FSC	COUNTER	152- 83	124	9600	9600DM#	FSC	CLOCK/MV	155- 61
15	9316	9316FM	AMD	COUNTER	152- 84	125	9600	9600FM	AMD	TIME DELAY	124-108
16	9316	9316FM	FSC	COUNTER	152- 84	126	9600	9600FM	FSC	TIME DELAY	124-108
17	9316	9316PC	AMD	COUNTER	152- 81	127	9600	9600PC	AMD	TIME DELAY	125- 12
18	9316	9316PC	FSC	COUNTER	152- 81	128	9600	9600PC	FSC	TIME DELAY	125- 12
19	9316	DM9316J#mil	NSC	COUNTER	148- 53	129	9601	9601DC	AMD	TIME DELAY	125- 13
20	9316	DM9316W#mil	NSC	COUNTER	148- 54	130	9601	9601DC	FSC	TIME DELAY	125- 13
21	9319	9319FM	FSC	COUNTER	152- 68	131	9601	9601DM	AMD	TIME DELAY	124-109
22	9319	9319PC	FSC	COUNTER	152- 69	132	9601	9601DM	FSC	TIME DELAY	124-109
23	9320	9320FM	FSC	COUNTER	152- 70	133	9601	9601FM	AMD	TIME DELAY	124-110
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25	9324	S9324F	MULB	MAGN COMP	166- 86	135	9601	9601PC	AMD	TIME DELAY	125- 14
26	9324	S9324F	PHIN	MAGN COMP	166- 86	136	9601	9601PC	FSC	TIME DELAY	125- 14
27	9324	S9324F	VALG	MAGN COMP	166- 86	137	9601	DM9601J	NSC	TIME DELAY	125- 5
28	9324	S9324W	MULB	MAGN COMP	166- 87	138	9601	DM9601N	NSC	TIME DELAY	125- 6
29	9324	S9324W	PHIN	MAGN COMP	166- 87	139	9601	DM9601W	NSC	TIME DELAY	125- 7
30	9324	S9324W	RTCF	MAGN COMP	166- 87	140	9602	S9602B	MULB	TIME DELAY	124-104
31	9324	S9324W	VALG	MAGN COMP	166- 87	141	9602	S9602B	PHIN	TIME DELAY	124-104
32	9324	9324DC	AMD	MAGN COMP	166- 88	142	9602	S9602F	MULB	TIME DELAY	124-105
33	9324	9324DC	FSC	MAGN COMP	166- 88	143	9602	S9602F	PHIN	TIME DELAY	124-105
34	9324	9324DM	AMD	MAGN COMP	166- 89	144	9602	S9602F	SIC	TIME DELAY	124-105
35	9324	9324DM	FSC	MAGN COMP	166- 89	145	9602	S9602W	MULB	TIME DELAY	124-106
36	9324	9324FM	AMD	MAGN COMP	166- 90	146	9602	S9602W	PHIN	TIME DELAY	124-106
37	9324	9324FM	FSC	MAGN COMP	166- 90	147	9602	S9602W	SIC	TIME DELAY	124-106
38	9324	9324PC	AMD	MAGN COMP	166- 91	148	9602	9602DC	AMD	TIME DELAY	125- 25
39	9324	9324PC	FSC	MAGN COMP	166- 91	149	9602	9602DC	FSC	TIME DELAY	125- 25
40	9324	N9324F	MULB	MAGN COMP	166- 84	150	9602	9602DM	AMD	TIME DELAY	126- 59
41	9324	N9324F	PHIN	MAGN COMP	166- 84	151	9602	9602DM	FSC	TIME DELAY	126- 59
42	9324	N9324F	VALG	MAGN COMP	166- 84	152	9602	9602FM	AMD	TIME DELAY	126- 60
43	9324	N9324N	MULB	MAGN COMP	166- 85	153	9602	9602FM	FSC	TIME DELAY	126- 60
44	9324	N9324N	PHIN	MAGN COMP	166- 85	154	9602	9602PC	AMD	TIME DELAY	125- 26
45	9324	N9324N	SIC	MAGN COMP	166- 85	155	9602	9602PC	FSC	TIME DELAY	125- 26
46	9324	N9324N	VALG	MAGN COMP	166- 85	156	9602	DM9602J	NSC	TIME DELAY	125- 8
47	9334	S9334F	MULB	LATCHES	180- 73	157	9602	DM9602N	NSC	TIME DELAY	125- 9
48	9334	S9334F	PHIN	LATCHES	180- 73	158	9602	DM9602W	NSC	TIME DELAY	125- 10
49	9334	S9334F	SIC	LATCHES	180- 73	159	9602	N9602B	MULB	TIME DELAY	124-101
50	9334	S9334F	VALG	LATCHES	180- 73	160	9602	N9602B	PHIN	TIME DELAY	124-101
51	9334	S9334W	PHIN	LATCHES	180- 74	161	9602	N9602F	MULB	TIME DELAY	124-102
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99	10182	MC10182L	MOTA	ALLU	168- 26	209	10519	F10519FM	FSC	GATE	72- 50
100	10182	MC10182P	MOTA	ALLU	168- 27	210	10519	MC10519F	MOTA	GATE	72- 53
101	10183	MC10183L	MOTA	MULTIPLIER	163- 14	211	10519	MC10519L	MOTA	GATE	72- 54
102	10189	GXB10189D	RTCF	GATE	71- 94	212	10521	F10521DM	FSC	GATE	72- 69
103	10189	GXB10189P	RTCF	GATE	71- 95	213	10521	F10521FM	FSC	GATE	72- 70
104	10193	MC10193L	MOTA	SPECIAL	182- 63	214	10521	MC10521F	MOTA	GATE	72- 55
105	10193	MC10193P	MOTA	SPECIAL	182- 64	215	10521	MC10521L	MOTA	GATE	72- 56
106	10197	MC10197L	MOTA	GATE	72- 1	216	10530	F10530DM	FSC	LATCHES	176- 82
107	10197	MC10197P	MOTA	GATE	72- 2	217	10530	F10530FM	FSC	LATCHES	176- 83
108	10198	MC10198L	MOTA	TIME DELAY							

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IN ORDER OF: (1)GENERIC NO. (2)MFR TYPE NO.

LINE No.	1 GENERIC NO.	2 MANUFACTURER TYPE NO.	MFR. CODE	PRODUCT CLASS	PAGE & LINE	LINE No.	1 GENERIC NO.	2 MANUFACTURER TYPE NO.	MFR. CODE	PRODUCT CLASS	PAGE & LINE
1	10531	F10531FM	FSC	FLIP FLOP	39- 63	111	14001	MC14001UBCL	MOTA	GATE	61- 35
2	10531	MC10531F	MOTA	FLIP FLOP	39- 64	112	14001	MC14001UBCP	MOTA	GATE	61- 36
3	10531	MC10531L	MOTA	FLIP FLOP	39- 65	113	14002	HD14002B	HITJ	GATE	58- 78
4	10533	F10533DM	FSC	LATCHES	176- 90	114	14002	MC14002BAL	MOTA	GATE	61- 25
5	10533	F10533FM	FSC	LATCHES	176- 91	115	14002	MC14002BCL	MOTA	GATE	61- 26
6	10533	MC10533F	MOTA	LATCHES	176- 98	116	14002	MC14002BCP	MOTA	GATE	61- 27
7	10533	MC10533L	MOTA	LATCHES	176- 99	117	14002	MC14002UBAL	MOTA	GATE	61- 37
8	10535	F10535DM	FSC	FLIP FLOP	39- 42	118	14002	MC14002UBCL	MOTA	GATE	61- 38
9	10535	F10535FM	FSC	FLIP FLOP	39- 43	119	14002	MC14002UBCP	MOTA	GATE	61- 39
10	10535	MC10535F	MOTA	FLIP FLOP	39- 44	120	14007	HD14007UB	HITJ	GATE	66- 35
11	10535	MC10535L	MOTA	FLIP FLOP	39- 45	121	14008	HD14008B	HITJ	ADDER	160- 4
12	10536	F10536DM	FSC	COUNTER	139- 46	122	14008	MC14008BAL	MOTA	ADDER	159- 76
13	10536	F10536FM	FSC	COUNTER	139- 47	123	14008	MC14008BCL	MOTA	ADDER	159- 77
14	10537	F10537DM	FSC	COUNTER	139- 34	124	14008	MC14008BCP	MOTA	ADDER	159- 78
15	10537	F10537FM	FSC	COUNTER	139- 35	125	14011	HD14011B	HITJ	GATE	62- 6
16	10538	MC10538F	MOTA	COUNTER	139- 38	126	14011	MC14011BAL	MOTA	FLIP FLOP	36- 9
17	10538	MC10538L	MOTA	COUNTER	139- 39	127	14011	MC14011BCL	MOTA	GATE	64- 49
18	10551	HD10551	HITJ	SPECIAL	182- 11	128	14011	MC14011BCP	MOTA	GATE	64- 50
19	10553	F10553DM	FSC	LATCHES	176- 92	129	14011	MC14011UBAL	MOTA	GATE	64- 75
20	10553	F10553FM	FSC	LATCHES	176- 93	130	14011	MC14011UBCL	MOTA	GATE	64- 76
21	10553	MC10553F	MOTA	LATCHES	176-100	131	14011	MC14011UBCP	MOTA	GATE	64- 77
22	10553	MC10553L	MOTA	LATCHES	176-101	132	14012	HD14012B	HITJ	GATE	62- 7
23	10560	F10560DM	FSC	PARITY GEN	172- 42	133	14012	MC14012BAL	MOTA	GATE	64- 51
24	10560	F10560FM	FSC	PARITY GEN	172- 43	134	14012	MC14012BCL	MOTA	GATE	64- 52
25	10560	MC10560F	MOTA	PARITY GEN	172- 59	135	14012	MC14012BCP	MOTA	GATE	64- 53
26	10560	MC10560L	MOTA	PARITY GEN	172- 60	136	14012	MC14012UBCL	MOTA	GATE	64- 78
27	10563	MC10563F	MOTA	SPECIAL	182- 65	137	14012	MC14012UBCP	MOTA	GATE	64- 79
28	10563	MC10563L	MOTA	SPECIAL	182- 66	138	14013	HD14013B	HITJ	FLIP FLOP	36- 67
29	10566	F10566DM	FSC	MAGN COMP	165- 78	139	14013	MC14013BAL	MOTA	FLIP FLOP	35- 90
30	10566	F10566FM	FSC	MAGN COMP	165- 79	140	14013	MC14013BCL	MOTA	FLIP FLOP	35- 91
31	10568	F10568DM	FSC	LATCHES	176-105	141	14013	MC14013BCP	MOTA	FLIP FLOP	35- 92
32	10568	F10568FM	FSC	LATCHES	176-106	142	14017	HD14017B	HITJ	COUNTER	137- 87
33	10568	MC10568F	MOTA	LATCHES	176-110	143	14017	MC14017BAL	MOTA	FREQ DIVID	156- 66
34	10568	MC10568L	MOTA	LATCHES	177- 1	144	14017	MC14017BCL	MOTA	FREQ DIVID	156- 64
35	10570	F10570DM	FSC	PARITY GEN	172- 54	145	14017	MC14017BCP	MOTA	FREQ DIVID	156- 65
36	10570	F10570FM	FSC	PARITY GEN	172- 55	146	14018	HD14018B	HITJ	COUNTER	137- 86
37	10570	MC10570F	MOTA	PARITY GEN	172- 51	147	14018	MC14018BAL	MOTA	COUNTER	138- 6
38	10570	MC10570L	MOTA	PARITY GEN	172- 52	148	14018	MC14018BCL	MOTA	COUNTER	138- 7
39	10575	F10575DM	FSC	LATCHES	177- 6	149	14018	MC14018BCP	MOTA	COUNTER	138- 8
40	10575	MC10575F	FSC	LATCHES	177- 7	150	14020	HD14020B	HITJ	COUNTER	131- 40
41	10575	MC10575L	MOTA	LATCHES	177- 10	151	14020	MC14020BAL	MOTA	COUNTER	134- 3
42	10575	MC10575F	MOTA	LATCHES	177- 11	152	14020	MC14020BCL	MOTA	COUNTER	134- 4
43	10578	MC10578F	MOTA	COUNTER	139- 18	153	14020	MC14020BCP	MOTA	COUNTER	134- 5
44	10578	MC10578L	MOTA	COUNTER	139- 19	154	14022	HD14022B	HITJ	COUNTER	136- 82
45	10579	F10579DM	FSC	CARRY GEN	170- 35	155	14022	MC14022BAL	MOTA	COUNTER	137- 76
46	10579	MC10579F	FSC	CARRY GEN	170- 36	156	14022	MC14022BCL	MOTA	COUNTER	137- 77
47	10579	MC10579F	MOTA	CARRY GEN	170- 39	157	14022	MC14022BCP	MOTA	COUNTER	137- 78
48	10579	MC10579L	MOTA	CARRY GEN	170- 40	158	14023	HD14023B	HITJ	GATE	62- 8
49	10580	F10580DM	FSC	ADDER	160- 28	159	14023	MC14023BAL	MOTA	GATE	64- 54
50	10580	F10580FM	FSC	ADDER	160- 29	160	14023	MC14023BCL	MOTA	GATE	64- 55
51	10580	MC10580F	MOTA	ADDER	160- 25	161	14023	MC14023BCP	MOTA	GATE	64- 56
52	10580	MC10580L	MOTA	ADDER	160- 26	162	14023	MC14023UBAL	MOTA	GATE	64- 80
53	10581	F10581DM	FSC	ALU	168- 35	163	14023	MC14023UBCL	MOTA	GATE	64- 81
54	10581	F10581FM	FSC	ALU	168- 36	164	14023	MC14023UBCP	MOTA	GATE	64- 82
55	10581	MC10581F	MOTA	ALU	168- 39	165	14024	HD14024B	HITJ	COUNTER	137- 63
56	10581	MC10581L	MOTA	ALU	168- 40	166	14024	MC14024BAL	MOTA	COUNTER	133-106
57	10582	MC10582F	MOTA	ALU	168- 28	167	14024	MC14024BCL	MOTA	COUNTER	133-107
58	10582	MC10582L	MOTA	ALU	168- 29	168	14024	MC14024BCP	MOTA	COUNTER	133-108
59	10593	MC10593F	MOTA	SPECIAL	182- 67	169	14025	HD14025B	HITJ	GATE	58- 79
60	10593	MC10593L	MOTA	SPECIAL	182- 68	170	14025	MC14025BAL	MOTA	GATE	61- 28
61	10597	MC10597F	MOTA	GATE	71-104	171	14025	MC14025BCL	MOTA	GATE	61- 29
62	10597	MC10597L	MOTA	GATE	71-105	172	14025	MC14025BCP	MOTA	GATE	61- 30
63	10610	F10610DM	FSC	GATE	72- 22	173	14025	MC14025UBAL	MOTA	GATE	61- 40
64	10610	F10610FM	FSC	GATE	72- 23	174	14025	MC14025UBCL	MOTA	GATE	61- 41
65	10611	F10611DM	FSC	GATE	73- 78	175	14025	MC14025UBCP	MOTA	GATE	61- 42
66	10611	F10611FM	FSC	GATE	73- 79	176	14027	HD14027B	HITJ	FLIP FLOP	35- 4
67	10631	F10631DM	FSC	FLIP FLOP	39- 21	177	14027	MC14027BAL	MOTA	FLIP FLOP	34- 77
68	10631	F10631FM	FSC	FLIP FLOP	39- 22	178	14027	MC14027BCL	MOTA	FLIP FLOP	34- 78
69	10631	MC10631F	MOTA	FLIP FLOP	39- 66	179	14027	MC14027BCP	MOTA	FLIP FLOP	34- 79
70	10631	MC10631L	MOTA	FLIP FLOP	39- 67	180	14028	HD14028B	HITJ	DECODER	117- 16
71	10901	MC10901Z # ai	MOTA	MULTIPLIER	163- 1	181	14028	MC14028BCL	MOTA	DECODER	117- 30
72	10905	MC10905(A)	MOTA	SPECIAL	182- 58	182	14028	MC14028BCP	MOTA	DECODER	117- 31
73	12009	MC12009L #1	MOTA	FREQ DIVID	157- 46	183	14029	MC14029BAL	MOTA	COUNTER	130- 83
74	12009	MC12009P #1	MOTA	FREQ DIVID	157- 47	184	14029	MC14029BCL	MOTA	COUNTER	130- 84
75	12011	MC12011L #1	MOTA	FREQ DIVID	157- 50	185	14029	MC14029BCP	MOTA	COUNTER	130- 85
76	12011	MC12011P #1	MOTA	FREQ DIVID	157- 51	186	14032	HD14032B	HITJ	ADDER	159- 57
77	12013	MC12013L #1	MOTA	FREQ DIVID	157- 57	187	14032	MC14032BAL	MOTA	ADDER	159- 5
78	12013	MC12013P #1	MOTA	FREQ DIVID	157- 58	188	14032	MC14032BCL	MOTA	ADDER	159- 7
79	12013	MC12013P #3	MOTA	FREQ DIVID	157- 59	189	14032	MC14032BCP	MOTA	ADDER	159- 8
80	12014	MC12014L	MOTA	SPECIAL	183- 35	190	14038	HD14038B	HITJ	ADDER	159- 58
81	12015	MC12015P(A)	MOTA	SPECIAL	183- 89	191	14038	MC14038BAL	MOTA	ADDER	159- 6
82	12016	MC12016P(A)	MOTA	SPECIAL	183- 90	192	14038	MC14038BCL	MOTA	ADDER	159- 9
83	12017	MC12017P(A)	MOTA	SPECIAL	183- 91	193	14038	MC14038BCP	MOTA	ADDER	159- 10
84	12018	MC12018P(A)	MOTA	SPECIAL	183- 92	194	14040	HD14040B	HITJ	COUNTER	133-109
85	12019	MC12019P(A)	MOTA	SPECIAL	183- 93	195	14040	MC14040BAL	MOTA	COUNTER	134- 6
86	12022	MC12022P(A)	MOTA	SPECIAL	183- 94	196	14040	MC14040BCL	MOTA	COUNTER	134- 7
87	12023	MC12023P(A)	MOTA	SPECIAL	183- 95	197	14040	MC14040BCP	MOTA	COUNTER	134- 8
88	12060	MC12060L	MOTA	CLOCK/MV	155- 1	198	14042	HD14042B	HITJ	LATCHES	175- 53
89	12060	MC12060P	MOTA	CLOCK/MV	155- 2	199	14042	MC14042BAL	MOTA	LATCHES	174-102
90	12061	MC12061L	MOTA	CLOCK/MV	155- 5	200	14042	MC14042BCL	MOTA	LATCHES	174-103
91	12061	MC12061P	MOTA	CLOCK/MV	155- 6	201	14042	MC14042BCP	MOTA	LATCHES	174-104
92	12071	MC12071P	MOTA	FREQ DIVID	156- 3	202	14043	HD14043B	HITJ	LATCHES	174- 16
93	12090	MC12090L(A)	MOTA	SPECIAL	183- 96	203	14043	MC14043BAL	MOTA	LATCHES	174-105
94	12090	MC12090P(A)	MOTA	SPECIAL	183- 97	204	14043	MC14043BCL	MOTA	LATCHES	174-106
95	12509	MC12509L #1	MOTA	FREQ DIVID	157- 48	205	14043	MC14043BCP	MOTA	LATCHES	174-107
96	12509	MC12509P #1	MOTA	FREQ DIVID	157- 49	206	14044	HD14044B	HITJ	LATCHES	174- 17
97	12511	MC12511L #1	MOTA	FREQ DIVID	157- 52	207	14044	MC14044BAL	MOTA	LATCHES	174-108
98	12513	MC12513L #1	MOTA	FREQ DIVID	157- 60	208	14044	MC14044BCL	MOTA	LATCHES	174-109
99	12513	MC12513P #2	MOTA	FREQ DIVID	157- 61	209	14044	MC14044BCP	MOTA	LATCHES	175- 1
100	12560	MC12560L	MOTA	CLOCK/MV	155- 3	210	14068	HD14068B	HITJ	GATE	62- 9
101	12561	MC12561L	MOTA	CLOCK/MV	155- 7	211	14068	MC14068BAL	MOTA	GATE	64- 57
102	14000	HD14000UB	HITJ	GATE	59- 38	212	14068	MC14068BCL	MOTA	GATE	64- 58
103	14000	MC14000UBAL	MOTA	GATE	61- 88	213	14068	MC14068BCP	MOTA	GATE	64- 59
104	14000	MC14000UBCL	MOTA	GATE	61- 89	214	14069	MC14069UBAP #mil	MOTA	GATE	66- 60
105	14000	MC14000UBCP	MOTA	GATE	61- 90	215	14069	MC14069UBCL	MOTA	GATE	66- 61
106	14001	HD14001B	HITJ	GATE	58- 77	216	14069	MC14069UBCP	MOTA	GATE	66- 62
107	14001	MC14001BAL									

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IN ORDER OF: (1)GENERIC NO. (2)MFR TYPE NO.

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1	14071	HD14071B	HITJ	GATE	57- 75	111	14521	MC14521BAL	MOTA	FREQ DIVID	156- 81	
2	14071	MC14071BAL	MOTA	GATE	58- 59	112	14521	MC14521BCL	MOTA	FREQ DIVID	156- 82	
3	14071	MC14071BCL	MOTA	GATE	58- 60	113	14521	MC14521BCP	MOTA	FREQ DIVID	156- 83	
4	14071	MC14071BCP	MOTA	GATE	58- 61	114	14522	HD14522B	HITJ	COUNTER	129-101	
5	14072	HD14072B	HITJ	GATE	57- 76	115	14522	MC14522BAL	MOTA	COUNTER	129- 80	
6	14072	MC14072BAL	MOTA	GATE	58- 62	116	14522	MC14522BCL	MOTA	COUNTER	129- 69	
7	14072	MC14072BCL	MOTA	GATE	58- 63	117	14522	MC14522BCP	MOTA	COUNTER	129- 70	
8	14072	MC14072BCP	MOTA	GATE	58- 64	118	14526	HD14526B	HITJ	COUNTER	129-102	
9	14073	HD14073B	HITJ	GATE	55- 45	119	14526	MC14526BAL	MOTA	COUNTER	132- 23	
10	14073	MC14073BAL	MOTA	GATE	56- 37	120	14526	MC14526BCL	MOTA	COUNTER	131- 89	
11	14073	MC14073BCL	MOTA	GATE	56- 38	121	14526	MC14526BCP	MOTA	COUNTER	131- 90	
12	14073	MC14073BCP	MOTA	GATE	56- 39	122	14527	HD14527B	HITJ	FREQ DIVID	156- 39	
13	14075	HD14075B	HITJ	GATE	57- 77	123	14527	MC14527BAL	MOTA	FREQ DIVID	156- 33	
14	14075	MC14075BAL	MOTA	GATE	58- 65	124	14527	MC14527BCL	MOTA	FREQ DIVID	156- 31	
15	14075	MC14075BCL	MOTA	GATE	58- 66	125	14527	MC14527BCP	MOTA	FREQ DIVID	156- 32	
16	14075	MC14075BCP	MOTA	GATE	58- 67	126	14528	MC14528BAL	MOTA	TIME DELAY	122- 27	
17	14076	HD14076B	HITJ	LATCHES	175- 47	127	14528	MC14528BCL	MOTA	TIME DELAY	122- 28	
18	14077	HD14077B	HITJ	GATE	65- 85	128	14528	MC14528BCP	MOTA	TIME DELAY	122- 29	
19	14077	MC14077BAL	MOTA	GATE	66- 8	129	14530	HD14530B	HITJ	SPECIAL	183- 1	
20	14077	MC14077BCL	MOTA	GATE	66- 9	130	14530	MC14530BAL	MOTA	SPECIAL	183- 11	
21	14077	MC14077BCP	MOTA	GATE	66- 10	131	14530	MC14530BCL	MOTA	SPECIAL	183- 12	
22	14078	HD14078B	HITJ	GATE	58- 80	132	14530	MC14530BCP	MOTA	SPECIAL	183- 13	
23	14078	MC14078BAL	MOTA	GATE	61- 31	133	14531	HD14531B	HITJ	PARITY GEN	172- 31	
24	14078	MC14078BCL	MOTA	GATE	61- 32	134	14531	MC14531BAL	MOTA	PARITY GEN	172- 26	
25	14078	MC14078BCP	MOTA	GATE	61- 33	135	14531	MC14531BCL	MOTA	PARITY GEN	172- 28	
26	14081	HD14081B	HITJ	GATE	55- 46	136	14531	MC14531BCP	MOTA	PARITY GEN	172- 29	
27	14081	MC14081BAL	MOTA	GATE	56- 31	137	14534	HD14534B	HITJ	COUNTER	129- 39	
28	14081	MC14081BCL	MOTA	GATE	56- 32	138	14534	MC14534BAL	MOTA	COUNTER	135- 86	
29	14081	MC14081BCP	MOTA	GATE	56- 33	139	14534	MC14534BCL	MOTA	COUNTER	135- 87	
30	14082	HD14082B	HITJ	GATE	55- 47	140	14534	MC14534BCP	MOTA	COUNTER	135- 88	
31	14082	MC14082BAL	MOTA	GATE	56- 34	141	14536	HD14536B	HITJ	TIME DELAY	122- 81	
32	14082	MC14082BCL	MOTA	GATE	56- 35	142	14536	MC14536BAL	MOTA	TIME DELAY	122- 58	
33	14082	MC14082BCP	MOTA	GATE	56- 36	143	14536	MC14536BCL	MOTA	TIME DELAY	122- 59	
34	14099	MC14099BAL	MOTA	LATCHES	176- 1	144	14536	MC14536BCP	MOTA	TIME DELAY	122- 60	
35	14099	MC14099BCL	MOTA	LATCHES	176- 2	145	14538	HD14538B	HITJ	CLOCK/MV	154- 60	
36	14099	MC14099BCP	MOTA	LATCHES	176- 3	146	14538	MC14538BAL	MOTA	TIME DELAY	122- 30	
37	14160	HD14160B	HITJ	COUNTER	129- 48	147	14538	MC14538BCL	MOTA	TIME DELAY	122- 31	
38	14160	MC14160BAL	MOTA	COUNTER	136- 21	148	14538	MC14538BCP	MOTA	TIME DELAY	122- 32	
39	14160	MC14160BCL	MOTA	COUNTER	136- 22	149	14541	MC14541BAL	MOTA	TIME DELAY	122- 61	
40	14160	MC14160BCP	MOTA	COUNTER	136- 23	150	14541	MC14541BCL	MOTA	TIME DELAY	122- 62	
41	14161	HD14161B	HITJ	COUNTER	131- 41	151	14541	MC14541BCP	MOTA	TIME DELAY	122- 63	
42	14161	MC14161BAL	MOTA	COUNTER	133- 38	152	14543	HD14543B	HITJ	DECODER	117- 45	
43	14161	MC14161BCL	MOTA	COUNTER	133- 39	153	14553	HD14553B	HITJ	COUNTER	129- 46	
44	14161	MC14161BCP	MOTA	COUNTER	133- 40	154	14553	MC14553BAL	MOTA	COUNTER	130- 15	
45	14162	HD14162B	HITJ	COUNTER	129- 49	155	14553	MC14553BCL	MOTA	COUNTER	130- 16	
46	14162	MC14162BAL	MOTA	COUNTER	136- 24	156	14553	MC14553BCP	MOTA	COUNTER	130- 17	
47	14162	MC14162BCL	MOTA	COUNTER	136- 25	157	14554	HD14554B	HITJ	MULTIPLIER	163- 11	
48	14162	MC14162BCP	MOTA	COUNTER	136- 26	158	14554	MC14554BAL	MOTA	MULTIPLIER	163- 8	
49	14163	HD14163B	HITJ	COUNTER	131- 42	159	14554	MC14554BCL	MOTA	MULTIPLIER	163- 9	
50	14163	MC14163BAL	MOTA	COUNTER	133- 41	160	14554	MC14554BCP	MOTA	MULTIPLIER	163- 10	
51	14163	MC14163BCL	MOTA	COUNTER	133- 42	161	14556	HD14556B	HITJ	DECODER	117- 46	
52	14163	MC14163BCP	MOTA	COUNTER	133- 43	162	14560	HD14560B	HITJ	ADDER	159- 65	
53	14174	HD14174B	HITJ	FLIP FLOP	36- 68	163	14560	MC14560BAL	MOTA	ADDER	159- 88	
54	14175	HD14175B	HITJ	FLIP FLOP	36- 69	164	14560	MC14560BCL	MOTA	ADDER	160- 1	
55	14408	MC14408B	MOTA	SPECIAL	183- 66	165	14560	MC14560BCP	MOTA	ADDER	160- 2	
56	14408	MC14408P	MOTA	SPECIAL	183- 67	166	14566	MC14566BAL	MOTA	SPECIAL	182- 35	
57	14409	MC14409P	MOTA	SPECIAL	183- 68	167	14566	MC14566BCL	MOTA	SPECIAL	182- 36	
58	14409	MC14409P	MOTA	SPECIAL	183- 69	168	14566	MC14566BCP	MOTA	SPECIAL	182- 37	
59	14411	MC14411P	MOTA	SPECIAL	182- 33	169	14569	HD14569B	HITJ	COUNTER	130- 81	
60	14411	MC14411P	MOTA	SPECIAL	182- 34	170	14569	MC14569BAL	MOTA	FREQ DIVID	156- 11	
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62	14415	MC14415FVL	MOTA	TIME DELAY	122- 40	172	14569	MC14569BCP	MOTA	FREQ DIVID	156- 13	
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33	40163	HEF40163BDF	SIC	COUNTER	134- 29	143	53220	M53220P	MITJ	GATE	104- 15
34	40163	HEF40163BPN	SIC	COUNTER	134- 30	144	53225	M53225P	MITJ	GATE	92- 6
35	40163	HEF40163BTD	SIC	COUNTER	135- 8	145	53227	M53227P	MITJ	GATE	92- 7
36	40163	CD40163BCJ	NSC	COUNTER	132-107	146	53230	M53230P	MITJ	GATE	104- 16
37	40163	CD40163BCN	NSC	COUNTER	132-108	147	53237	M53237P	MITJ	GATE	104- 17
38	40163	CD40163BD	RCA	COUNTER	133- 90	148	53238	M53238P	MITJ	GATE	104- 18
39	40163	CD40163BE	RCA	COUNTER	133- 91	149	53240	M53240P	MITJ	GATE	104- 19
40	40163	CD40163BF	RCA	COUNTER	133- 92	150	53241	M53241P	MITJ	DECODER	116- 22
41	40163	CD40163BMJ	NSC	COUNTER	132-109	151	53242	M53242P	MITJ	DECODER	116- 23
42	40163	CD40163BMW	NSC	COUNTER	132-110	152	53243	M53243P	MITJ	DECODER	116- 30
43	40174	M40174BP	MITJ	FLIP FLOP	36- 7	153	53244	M53244P	MITJ	DECODER	116- 31
44	40174	HCC40174BD	SGAI	FLIP FLOP	35- 82	154	53245	M53245P	MITJ	DECODER	119- 83
45	40174	HCC40174BF	SGAI	FLIP FLOP	35- 83	155	53250	M53250P	MITJ	GATE	86- 6
46	40174	HCC40174BK	SGAI	FLIP FLOP	35- 84	156	53253	M53253P	MITJ	GATE	86- 7
47	40174	TC40174BP	TOSJ	FLIP FLOP	36- 11	157	53260	M53260P	MITJ	GATE	113- 91
48	40174	HCF40174BE	SGAI	FLIP FLOP	35- 87	158	53270	M53270P	MITJ	FLIP FLOP	49- 66
49	40174	HCF40174BF	SGAI	FLIP FLOP	35- 88	159	53272	M53272P	MITJ	FLIP FLOP	49- 67
50	40174	HEF40174BDF	SIC	FLIP FLOP	35- 96	160	53273	M53273P	MITJ	FLIP FLOP	45- 13
51	40174	HEF40174BPN	SIC	FLIP FLOP	35- 97	161	53274	M53274P	MITJ	FLIP FLOP	52- 41
52	40174	HEF40174BTD	SIC	FLIP FLOP	36- 1	162	53275	M53275P	MITJ	LATCHES	177- 67
53	40174	HEF40174P	MULB	FLIP FLOP	37- 11	163	53276	M53276P	MITJ	FLIP FLOP	45- 14
54	40174	HEF40174P	PHIN	FLIP FLOP	37- 11	164	53285	M53285P	MITJ	MAGN COMP	166- 25
55	40174	HEF40174P	VALG	FLIP FLOP	37- 11	165	53286	M53286P	MITJ	GATE	112- 28
56	40174	CD40174BC	NSC	FLIP FLOP	34- 35	166	53290	M53290P	MITJ	COUNTER	143- 58
57	40174	CD40174BD	RCA	FLIP FLOP	35- 76	167	53292	M53292P	MITJ	COUNTER	150- 14
58	40174	CD40174BE	RCA	FLIP FLOP	35- 77	168	53293	M53293P	MITJ	COUNTER	150- 15
59	40174	CD40174BF	RCA	FLIP FLOP	35- 78	169	53307	M53307P	MITJ	FLIP FLOP	45- 15
60	40174	CD40174BM	NSC	FLIP FLOP	34- 36	170	53321	M53321P	MITJ	TIME DELAY	127- 57
61	40175	M40175BP	MITJ	FLIP FLOP	36- 8	171	53322	M53322P	MITJ	TIME DELAY	124- 50
62	40175	TC40175BP	TOSJ	FLIP FLOP	36- 12	172	53323	M53323P	MITJ	TIME DELAY	124- 55
63	40175	HEF40175BDF	SIC	FLIP FLOP	36- 2	173	53345	M53345P	MITJ	DECODER	120- 1
64	40175	HEF40175BPN	SIC	FLIP FLOP	36- 3	174	53354	M53354P	MITJ	DECODER	116- 14
65	40175	HEF40175BTD	SIC	FLIP FLOP	36- 4	175	53355	M53355P	MITJ	DECODER	116- 15
66	40175	HEF40175P	MULB	FLIP FLOP	37- 12	176	53356	M53356P	MITJ	DECODER	116- 16
67	40175	HEF40175P	PHIN	FLIP FLOP	37- 12	177	53360	M53360P	MITJ	COUNTER	141- 35
68	40175	HEF40175P	VALG	FLIP FLOP	37- 12	178	53361	M53361P	MITJ	COUNTER	146- 72
69	40175	CD40175BC	NSC	FLIP FLOP	34- 37	179	53362	M53362P	MITJ	COUNTER	141- 36
70	40175	CD40175BD	RCA	FLIP FLOP	37- 5	180	53363	M53363P	MITJ	COUNTER	146- 73
71	40175	CD40175BE	RCA	FLIP FLOP	37- 6	181	53380	M53380P	MITJ	PARITY GEN	173- 47
72	40175	CD40175BF	RCA	FLIP FLOP	37- 7	182	53381	M53381P	MITJ	ALU	169- 32
73	40175	CD40175BH	RCA	FLIP FLOP	36- 66	183	53382	M53382P	MITJ	CARRY GEN	170- 82
74	40175	CD40175BM	NSC	FLIP FLOP	34- 38	184	53390	M53390P	MITJ	COUNTER	141- 37
75	40181	CD40181BD	RCA	ALU	168- 4	185	53391	M53391P	MITJ	COUNTER	146- 74
76	40181	CD40181BE	RCA	ALU	168- 5	186	53392	M53392P	MITJ	COUNTER	139- 84
77	40181	CD40181BF	RCA	ALU	168- 12	187	53393	M53393P	MITJ	COUNTER	144- 71
78	40181	CD40181BH	RCA	ALU	168- 6	188	54100	S54100F	MULB	LATCHES	178- 81
79	40182	HCC40182BD	SGAI	CARRY GEN	170- 7	189	54100	S54100F	PHIN	LATCHES	178- 81
80	40182	HCC40182BF	SGAI	CARRY GEN	170- 8	190	54100	S54100F	VALG	LATCHES	178- 81
81	40182	HCC40182BK	SGAI	CARRY GEN	170- 9	191	54100	S54100Q	MULB	LATCHES	178- 82
82	40182	HCF40182BE	SGAI	CARRY GEN	170- 10	192	54100	S54100Q	PHIN	LATCHES	178- 82
83	40182	HCF40182BF	SGAI	CARRY GEN	170- 11	193	54100	S54100W	PHIN	LATCHES	178- 83
84	40182	CD40182BD	RCA	CARRY GEN	170- 19	194	54100	S54100W	VALG	LATCHES	178- 83
85	40182	CD40182BE	RCA	CARRY GEN	170- 20	195	54100	SN54100J	TII	LATCHES	178- 89
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88	40192	TC40192BP	TOSJ	COUNTER	129- 67	198	54107	S54107F	PHIN	FLIP FLOP	46- 27
89	40192	MSM40192RS	OKIJ	COUNTER	135- 73	199	54107	S54107F	VALG	FLIP FLOP	46- 27
90	40192	40192BDC	FSC	COUNTER	129- 83	200	54107	S54107W	MULB	FLIP FLOP	46- 28
91	40192	40192BDM	FSC	COUNTER	129- 84	201	54107	S54107W	PHIN	FLIP FLOP	46- 28
92	40192	40192BFC	FSC	COUNTER	129- 85	202	54107	S54107W	VALG	FLIP FLOP	46- 28
93	40192	40192BFM	FSC	COUNTER	129- 86	203	54107	54107DM	FSC	FLIP FLOP	42-101
94	40192	40192BPC	FSC	COUNTER	129- 87	204	54107	54107FM	FSC	FLIP FLOP	42-102
95	40192	HEF40192	RTCF	COUNTER	136- 34	205	54107	DM54107J	NSC	FLIP FLOP	43- 6
96	40192	HEF40192BDF	SIC	COUNTER	136- 35	206	54107	ZN54107E	FERB	FLIP FLOP	49- 26
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98	40192	HEF40192BTD	SIC	COUNTER	136- 65	208	54107	SN54107J	TII	FLIP FLOP	47- 5
99	40192	HEF40192P	MULB	COUNTER	130- 24	209	54109	S54109F	MULB	FLIP FLOP	46- 29
100	40192	HEF40192P	PHIN	COUNTER	130- 24	210	54109	S54109F	PHIN	FLIP FLOP	46- 29
101	40192	HEF40192P	VALG	COUNTER	130- 24	211	54109	S54109F	SIC	FLIP FLOP	46- 29
102	40192	CD40192BCJ	NSC	COUNTER	136- 7	212	54109	S54109F	VALG	FLIP FLOP	46- 29
103	40192	CD40192BCN	NSC	COUNTER	136- 8	213	54109	S54109W	MULB	FLIP FLOP	46- 30
104	40192	CD40192BD	RCA	COUNTER	130- 42	214	54109	S54109W	PHIN	FLIP FLOP	46- 30
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3	54116	S54116F	MULB	LATCHES	178- 84	113	54160	S54160W	SIC	COUNTER	141- 62
4	54116	S54116F	PHIN	LATCHES	178- 84	114	54160	S54160W	VALG	COUNTER	141- 62
5	54116	S54116F	SIC	LATCHES	178- 84	115	54160	54160DM	FSC	COUNTER	142- 37
6	54116	S54116F	VALG	LATCHES	178- 84	116	54160	54160FM	FSC	COUNTER	142- 38
7	54116	S54116W	MULB	LATCHES	178- 85	117	54160	DM54160AJ#mil	NSC	COUNTER	151- 59
8	54116	S54116W	PHIN	LATCHES	178- 85	118	54160	DM54160AW#mil	NSC	COUNTER	151- 60
9	54116	S54116W	SIC	LATCHES	178- 85	119	54160	SN54160J	AMD	COUNTER	141- 89
10	54116	S54116W	VALG	LATCHES	178- 85	120	54160	SN54160J	TII	COUNTER	141- 89
11	54116	SN54116J	TII	LATCHES	178- 91	121	54160	SN54160W	AMD	COUNTER	141- 90
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13	54121	S54121F	MULB	TIME DELAY	127- 5	123	54161	S54161E	MULB	COUNTER	139- 14
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15	54121	S54121F	SIC	TIME DELAY	127- 5	125	54161	S54161F	MULB	COUNTER	147- 4
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17	54121	S54121Q	MULB	TIME DELAY	127- 6	127	54161	S54161F	RTCF	COUNTER	147- 4
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21	54121	S54121W	VALG	TIME DELAY	127- 7	131	54161	S54161R	PHIN	COUNTER	139- 15
22	54121	54121DM	FSC	TIME DELAY	127- 53	132	54161	S54161W	MULB	COUNTER	147- 5
23	54121	54121FM	FSC	TIME DELAY	127- 54	133	54161	S54161W	PHIN	COUNTER	147- 5
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25	54121	DM54121W	NSC	TIME DELAY	127- 16	135	54161	S54161W	SIC	COUNTER	147- 5
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29	54121	SN54121W	TII	TIME DELAY	127- 59	139	54161	DM54161AJ#mil	NSC	COUNTER	148- 55
30	54122	S54122F	MULB	TIME DELAY	127- 8	140	54161	DM54161AW#mil	NSC	COUNTER	148- 56
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33	54122	S54122F	VALG	TIME DELAY	127- 8	143	54161	SN54161J	AMD	COUNTER	147- 40
34	54122	S54122Q	MULB	TIME DELAY	127- 9	144	54161	SN54161J	TII	COUNTER	147- 40
35	54122	S54122W	MULB	TIME DELAY	127- 10	145	54161	SN54161W	AMD	COUNTER	147- 41
36	54122	S54122W	PHIN	TIME DELAY	127- 10	146	54161	SN54161W	TII	COUNTER	147- 41
37	54122	S54122W	SIC	TIME DELAY	127- 10	147	54162	S54162E	MULB	COUNTER	147- 6
38	54122	S54122W	VALG	TIME DELAY	127- 10	148	54162	S54162E	PHIN	COUNTER	147- 6
39	54122	54122DM	FSC	TIME DELAY	125- 61	149	54162	S54162F	MULB	COUNTER	141- 63
40	54122	54122FM	FSC	TIME DELAY	125- 62	150	54162	S54162F	PHIN	COUNTER	141- 63
41	54122	ZN54122E	FERR	TIME DELAY	124- 79	151	54162	S54162F	VALG	COUNTER	141- 63
42	54122	ZN54122J	FERR	TIME DELAY	124- 80	152	54162	S54162R	MULB	COUNTER	147- 7
43	54122	SN54122J	TII	TIME DELAY	124- 71	153	54162	S54162R	PHIN	COUNTER	147- 7
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45	54123	S54123E	MULB	TIME DELAY	126- 47	155	54162	S54162W	PHIN	COUNTER	141- 64
46	54123	S54123E	PHIN	TIME DELAY	126- 47	156	54162	S54162W	VALG	COUNTER	141- 64
47	54123	S54123F	MULB	TIME DELAY	127- 11	157	54162	54162FM	FSC	COUNTER	142- 39
48	54123	S54123F	PHIN	TIME DELAY	127- 11	158	54162	DM54162AJ#mil	NSC	COUNTER	151- 61
49	54123	S54123F	RTCF	TIME DELAY	127- 11	159	54162	DM54162AW#mil	NSC	COUNTER	129- 4
50	54123	S54123F	SIC	TIME DELAY	127- 11	160	54162	SN54162J	AMD	COUNTER	141- 91
51	54123	S54123F	VALG	TIME DELAY	127- 11	161	54162	SN54162J	TII	COUNTER	141- 91
52	54123	S54123W	MULB	TIME DELAY	127- 12	162	54162	SN54162W	AMD	COUNTER	141- 92
53	54123	S54123W	PHIN	TIME DELAY	127- 12	163	54162	SN54162W	TII	COUNTER	141- 92
54	54123	S54123W	RTCF	TIME DELAY	127- 12	164	54163	S54163E	MULB	COUNTER	151- 34
55	54123	S54123W	SIC	TIME DELAY	127- 12	165	54163	S54163E	PHIN	COUNTER	151- 34
56	54123	S54123W	VALG	TIME DELAY	127- 12	166	54163	S54163F	MULB	COUNTER	147- 8
57	54123	54123DM	FSC	TIME DELAY	124- 56	167	54163	S54163F	PHIN	COUNTER	147- 8
58	54123	54123FM	FSC	TIME DELAY	124- 57	168	54163	S54163F	RTCF	COUNTER	147- 8
59	54123	ZN54123E	FERR	TIME DELAY	124- 81	169	54163	S54163F	SIC	COUNTER	147- 8
60	54123	ZN54123J	FERR	TIME DELAY	124- 82	170	54163	S54163F	VALG	COUNTER	147- 8
61	54123	SN54123J	AMD	TIME DELAY	124- 73	171	54163	S54163R	MULB	COUNTER	151- 35
62	54123	SN54123J	TII	TIME DELAY	124- 73	172	54163	S54163R	PHIN	COUNTER	151- 35
63	54123	SN54123W	AMD	TIME DELAY	124- 74	173	54163	S54163W	MULB	COUNTER	147- 9
64	54123	SN54123W	TII	TIME DELAY	124- 74	174	54163	S54163W	PHIN	COUNTER	147- 9
65	54128	SN54128J	TII	GATE	93- 15	175	54163	S54163W	RTCF	COUNTER	147- 9
66	54128	SN54128W	TII	GATE	93- 16	176	54163	S54163W	SIC	COUNTER	147- 9
67	54136	SN54136J	TII	GATE	112- 82	177	54163	S54163W	VALG	COUNTER	147- 9
68	54136	SN54136W	TII	GATE	112- 83	178	54163	54163DM	FSC	COUNTER	148- 4
69	54145	S54145E	MULB	DECODER	120- 24	179	54163	54163FM	FSC	COUNTER	148- 5
70	54145	S54145E	PHIN	DECODER	120- 24	180	54163	DM54163AJ#mil	NSC	COUNTER	148- 57
71	54145	S54145F	MULB	DECODER	120- 25	181	54163	DM54163AW#mil	NSC	COUNTER	148- 58
72	54145	S54145F	PHIN	DECODER	120- 25	182	54163	ZN54163E	FERR	COUNTER	147- 54
73	54145	S54145F	SIC	DECODER	120- 25	183	54163	ZN54163J	FERR	COUNTER	147- 55
74	54145	S54145R	MULB	DECODER	120- 26	184	54163	SN54163J	AMD	COUNTER	147- 42
75	54145	S54145R	PHIN	DECODER	120- 26	185	54163	SN54163J	TII	COUNTER	147- 42
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77	54145	S54145W	PHIN	DECODER	120- 27	187	54163	SN54163W	TII	COUNTER	147- 43
78	54145	S54145W	SIC	DECODER	120- 27	188	54167	54167FM	FSC	FREQ DIVID	158- 6
79	54145	54145DM	FSC	DECODER	119- 17	189	54167	SN54167J	TII	FREQ DIVID	158- 8
80	54145	54145FM	FSC	DECODER	119- 18	190	54167	SN54167W	TII	FREQ DIVID	158- 9
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84	54147	DM54147W#mil	NSC	SPECIAL	184- 60	194	54174	DM54147W#mil	NSC	FLIP FLOP	53- 65
85	54148	DM54148J#mil	NSC	SPECIAL	184- 61	195	54175	S54175F	SIC	FLIP FLOP	54- 29
86	54148	DM54148W#mil	NSC	SPECIAL	184- 62	196	54175	S54175W	SIC	FLIP FLOP	54- 30
87	54154	54154DM	FSC	DECODER	120- 73	197	54175	54175DM	FSC	FLIP FLOP	51- 52
88	54154	54154FM	FSC	DECODER	120- 74	198	54175	54175FM	FSC	FLIP FLOP	51- 53
89	54154	ZN54154E	FERR	DECODER	118- 94	199	54175	DM54175J#mil	NSC	FLIP FLOP	53- 66
90	54154	ZN54154J	FERR	DECODER	119- 1	200	54175	DM54175W#mil	NSC	FLIP FLOP	34- 1
91	54154	SN54154J	AMD	DECODER	120- 86	201	54176	54176DM	FSC	COUNTER	152- 71
92	54154	SN54154J	TII	DECODER	120- 86	202	54176	54176FM	FSC	COUNTER	152- 72
93	54154	SN54154W	AMD	DECODER	120- 87	203	54176	SN54176J	TII	COUNTER	152- 39
94	54154	SN54154W	TII	DECODER	120- 87	204	54176	SN54176W	TII	COUNTER	152- 40
95	54155	DM54155J#mil	NSC	DECODER	119- 42	205	54177	54177DM	FSC	COUNTER	144- 73
96	54155	DM54155W#mil	NSC	DECODER	119- 43	206	54177	54177FM	FSC	COUNTER	144- 74
97	54155	ZN54155E	FERR	DECODER	119- 2	207	54177	SN54177J	TII	COUNTER	150-102
98	54155	ZN54155J	FERR	DECODER	119- 3	208	54177	SN54177W	TII	COUNTER	150-103
99	54155	SN54155J	TII	DECODER	118- 86	209	54180	S54180F	MULB	PARITY GEN	173- 50
100	54155	SN54155W	TII	DECODER	118- 87	210	54180	S54180F	PHIN	PARITY GEN	173- 50
101	54156	DM54156J#mil	NSC	DECODER	119- 44	211	54180	S54180F	RTCF	PARITY GEN	173- 50
102	54156	DM54156W#mil	NSC	DECODER	119- 45	212	54180	S54180F	SIC	PARITY GEN	173- 50
103	54156	SN54156J	TII	DECODER	118- 88	213	54180	S54180W	VALG	PARITY GEN	173- 50
104	54156	SN54156W	TII	DECODER	118- 89	214	54180	S54180W	MULB	PARITY GEN	173- 51
105	54160	S54160F	MULB	COUNTER	141- 61	215	54180	S54180W	PHIN	PARITY GEN	173- 51
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55	100117	100117F	SIC	GATE	70-105	165	100182	F100182FC	FSC	ADDER	160- 14
56	100117	100117Y	SIC	GATE	70-106	166	100183	F100183DC	FSC	MULTIPLIER	163- 97
57	100117	HD100117	HITJ	GATE	71- 61	167	100183	F100183FC	FSC	MULTIPLIER	163- 98
58	100117	HD100117F	HITJ	GATE	71- 62	168	142100	MC142100AL	MOTA	LATCHES	176- 33
59	100117	F100117DC	FSC	GATE	71- 30	169	142100	MC142100CL	MOTA	LATCHES	176- 34
60	100117	F100117FC	FSC	GATE	71- 31	170	142100	MC142100CP	MOTA	LATCHES	176- 35
61	100117	HXA100117D	PHIN	GATE	71- 20	171	145000	MC145000	MOTA	SPECIAL	184- 29
62	100117	HXA100117F	PHIN	GATE	71- 21	172	145001	MC145001	MOTA	SPECIAL	184- 30
63	100118	100118F	SIC	GATE	70-107	173	145026	MC145026L	MOTA	SPECIAL	184- 96
64	100118	100118Y	SIC	GATE	70-108	174	145026	MC145026L#ai	MOTA	SPECIAL	184- 97
65	100118	HD100118	HITJ	GATE	71- 63	175	145026	MC145026P	MOTA	SPECIAL	184- 98
66	100118	HD100118F	HITJ	GATE	71- 64	176	145026	MC145026P#ai	MOTA	SPECIAL	184- 99
67	100118	F100118DC	FSC	GATE	72- 83	177	145027	MC145027L	MOTA	SPECIAL	184-100
68	100118	F100118FC	FSC	GATE	72- 84	178	145027	MC145027L#ai	MOTA	SPECIAL	184-101
69	100118	HXA100118D	PHIN	GATE	71- 22	179	145027	MC145027P	MOTA	SPECIAL	184-102
70	100118	HXA100118F	PHIN	GATE	71- 23	180	145027	MC145027P#ai	MOTA	SPECIAL	184-103
71	100122	HD100122	HITJ	GATE	70- 99	181	145028	MC145028L	MOTA	SPECIAL	184-104
72	100122	HD100122F	HITJ	GATE	70-100	182	145028	MC145028L#ai	MOTA	SPECIAL	184-105
73	100122	HXA100122D	PHIN	GATE	71- 98	183	145028	MC145028P#ai	MOTA	SPECIAL	185- 1
74	100122	HXA100122F	PHIN	GATE	71- 99	184	145100	MC145100AL	MOTA	LATCHES	176- 36
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77	100130	HD100130F	HITJ	LATCHES	178- 10	187	151810	SN151810N	TII	GATE	67- 37
78	100130	F100130DC	FSC	LATCHES	176- 45	188	151811	SN151811N	TII	GATE	67- 38
79	100130	F100130FC	FSC	LATCHES	176- 46	189	151910	SN151910N	TII	GATE	67- 39
80	100131	100131D	PHIN	FLIP FLOP	39- 18	190	151911	SN151911N	TII	GATE	67- 40
81	100131	HD100131	HITJ	FLIP FLOP	39- 27	191	158093	SN158093F	TII	FLIP FLOP	37- 74
82	100131	HD100131F	HITJ	FLIP FLOP	39- 28	192	158093	SN158093J	TII	FLIP FLOP	37- 75
83	100131	F100131DC	FSC	FLIP FLOP	39- 25	193	158093	SN158093N	TII	FLIP FLOP	37- 76
84	100131	F100131FC	FSC	FLIP FLOP	39- 26	194	158093	SN158093R	TII	FLIP FLOP	37- 77
85	100131	HXA100131D#ai	PHIN	FLIP FLOP	39- 31	195	158094	SN158094F	TII	FLIP FLOP	37- 78
86	100131	HXA100131F#ai	PHIN	FLIP FLOP	39- 32	196	158094	SN158094J	TII	FLIP FLOP	37- 79
87	100136	HD100136	HITJ	COUNTER	139- 1	197	158094	SN158094N	TII	FLIP FLOP	37- 80
88	100136	HD100136F	HITJ	COUNTER	139- 2	198	158094	SN158094R	TII	FLIP FLOP	37- 81
89	100136	HXA100136D#ai	PHIN	COUNTER	139- 5	199	158097	SN158097F	TII	FLIP FLOP	37- 82
90	100136	HXA100136F#ai	PHIN	COUNTER	139- 6	200	158097	SN158097J	TII	FLIP FLOP	37- 83
91	100150	100150D	PHIN	FLIP FLOP	39- 19	201	158097	SN158097N	TII	FLIP FLOP	37- 84
92	100150	100150F	PHIN	FLIP FLOP	39- 20	202	158097	SN158097R	TII	FLIP FLOP	37- 85
93	100150	100150FC	FSC	LATCHES	177- 12	203	158099	SN158099J	TII	FLIP FLOP	37- 86
94	100150	HD100150F	HITJ	LATCHES	176- 60	204	158099	SN158099L	TII	FLIP FLOP	37- 87
95	100150	F100150DC	FSC	LATCHES	176- 47	205	158099	SN158099N	TII	FLIP FLOP	37- 88
96	100150	F100150FC	FSC	LATCHES	176- 48	206	158099	SN158099R	TII	FLIP FLOP	37- 89
97	100150	HXA100150D	PHIN	FLIP FLOP	39- 33	207	158093	SN158093F	TII	FLIP FLOP	37- 90
98	100150	HXA100150D	RTCF	FLIP FLOP	39- 33	208	158093	SN158093J	TII	FLIP FLOP	37- 91
99	100150	HXA100150F	PHIN	FLIP FLOP	39- 34	209	158093	SN158093N	TII	FLIP FLOP	37- 92
100	100150	HXA100150F	RTCF	FLIP FLOP	39- 34	210	158093	SN158093R	TII	FLIP FLOP	37- 93
101	100151	HD100151	HITJ	FLIP FLOP	39- 29	211	158094	SN158094F	TII	FLIP FLOP	37- 94
102	100151	HD100151F	HITJ	FLIP FLOP	39- 30	212	158094	SN158094J	TII	FLIP FLOP	37- 95
103	100151	F100151DC	FSC	FLIP FLOP	39- 23	213	158094	SN158094N	TII	FLIP FLOP	37- 96
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6N126	ΔTII	98-18	54HC1734D	ΔSTX	36-17	54LS373DM	ΔFSC	178-11	61Z16A030	ΔSPR	124-28	74F64PC	ΔFSC	83-62
6N127	ΔTII	98-19	54HCT533C	ΔSTX	175-72	54LS373FM	ΔFSC	178-12	61Z16A035	ΔSPR	124-29	74F74DC	ΔFSC	51-29
6N128	ΔTII	110-67	54HCT534C	ΔSTX	36-18	54LS374DM	ΔFSC	51-17	61Z16A040	ΔSPR	124-30	74F74PC	ΔFSC	51-30
6N129	ΔTII	110-68	54HCT534D	ΔSTX	36-19	54LS374FM	ΔFSC	51-18	61Z16A045	ΔSPR	124-31	74F109DC	ΔFSC	42-67
6N130	ΔTII	110-69	54HCT563C	ΔSTX	175-73	54LS375DM	ΔFSC	177-38	61Z16A050	ΔSPR	124-32	74F109PC	ΔFSC	42-68
6N131	ΔTII	110-70	54HCT563D	ΔSTX	175-74	54LS375FM	ΔFSC	177-39	61Z16A075	ΔSPR	124-33	74F160DC	ΔFSC	143-35
6N132	ΔTII	110-71	54HCT564C	ΔSTX	36-20	54LS377DM	ΔFSC	50-10	61Z16A100	ΔSPR	124-34	74F160PC	ΔFSC	143-36
6N133	ΔTII	42-43	54HCT564D	ΔSTX	36-21	54LS377FM	ΔFSC	50-11	61Z16A150	ΔSPR	124-35	74F161DC	ΔFSC	149-80
8T3404FZ	ΔSIC	179-36	54HCT573C	ΔSTX	175-75	54LS378DM	ΔFSC	50-12	61Z16A200	ΔSPR	124-36	74F161PC	FSC	149-81
8T3404N	ΔSIC	179-37	54HCT573D	ΔSTX	175-76	54LS378FM	ΔFSC	50-13	61Z16A250	ΔSPR	124-37	74F162DC	ΔFSC	143-37
54F00DM	FSC	98-20	54HCT574C	ΔSTX	36-22	54LS384DM	FSC	163-83	61Z16A300	ΔSPR	124-38	74F162PC	ΔFSC	143-38
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54F02DM	FSC	90-50	54LS500DM	FSC	94-32	54LS386DM	ΔFSC	111-15	61Z16A500	ΔSPR	124-40	74F163PC	FSC	149-83
54F02FM	FSC	90-51	54LS500FM	FSC	94-33	54LS386FM	ΔFSC	111-16	62Z03A001H	ΔSPR	123-55	74F175DC	ΔFSC	51-31
54F04DM	FSC	115-30	54LS502DM	FSC	89-81	54LS390DM	ΔFSC	140-56	62Z03A002H	ΔSPR	123-56	74F175PC	ΔFSC	51-32
54F04FM	FSC	115-31	54LS502FM	FSC	89-82	54LS390FM	ΔFSC	140-57	62Z03A003H	ΔSPR	123-57	74F181DC	ΔFSC	168-90
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54F08FM	FSC	77-46	54LS503FM	FSC	94-35	54LS393FM	ΔFSC	145-64	62Z03A005H	ΔSPR	123-59	74F182DC	ΔFSC	170-47
54F10DM	FSC	98-22	54LS508DM	FSC	76-6	54LS490DM	ΔFSC	142-75	62Z03A006H	ΔSPR	123-60	74F182PC	ΔFSC	170-48
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54F11FM	FSC	77-48	54LS510DM	FSC	94-36	54LS533FM	ΔFSC	178-19	62Z03A009H	ΔSPR	123-63	74F283DC	ΔFSC	161-17
54F20DM	FSC	98-24	54LS510FM	FSC	94-37	54LS534DM	ΔFSC	51-19	62Z03A010H	ΔSPR	123-64	74F283PC	ΔFSC	161-18
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54F32DM	FSC	87-73	54LS511FM	FSC	76-9	54LS563DC	FSC	178-13	62Z07A010H	ΔSPR	123-66	74F373PC	ΔFSC	179-48
54F32FM	FSC	87-74	54LS515FM	FSC	76-10	54LS563DM	FSC	178-14	62Z07A020F	ΔSPR	123-67	74F374DC	ΔFSC	51-33
54F64DM	FSC	83-49	54LS520DM	FSC	94-38	54LS563FM	FSC	178-15	62Z07A020F	ΔSPR	123-68	74F374PC	ΔFSC	51-34
54F64FM	FSC	83-50	54LS520FM	FSC	94-39	54LS563PC	FSC	178-16	62Z07A025F	ΔSPR	123-69	74F533DC	ΔFSC	179-57
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54F74FM	ΔFSC	51-8	54LS521FM	FSC	76-12	54LS564FM	FSC	51-22	62Z07A030F	ΔSPR	123-71	74F534DC	ΔFSC	51-35
54F109DM	ΔFSC	42-44	54LS522DM	FSC	94-40	54LS573DM	ΔFSC	178-20	62Z07A030F	ΔSPR	123-72	74F534PC	ΔFSC	51-36
54F109FM	ΔFSC	42-45	54LS522FM	FSC	94-41	54LS573FM	ΔFSC	178-21	62Z07A040F	ΔSPR	123-73	74H00DC	ΔFSC	98-57
54F160DM	ΔFSC	143-31	54LS526DM	FSC	94-42	54LS574DM	FSC	51-23	62Z07A040H	ΔSPR	123-74	74H00PC	ΔFSC	98-58
54F160FM	ΔFSC	143-32	54LS527DM	FSC	89-83	54LS574FM	FSC	51-24	62Z07A050F	ΔSPR	123-75	74H01DC	ΔFSC	98-59
54F161DM	ΔFSC	149-76	54LS527FM	FSC	89-84	54S00DM	ΔFSC	98-38	62Z07A050H	ΔSPR	123-76	74H01PC	ΔFSC	98-60
54F161FM	ΔFSC	149-77	54LS530DM	FSC	94-43	54S00FM	ΔFSC	98-39	62Z07A060H	ΔSPR	123-77	74H10DC	ΔFSC	98-61
54F162DM	ΔFSC	143-33	54LS530FM	FSC	94-44	54S03DM	ΔFSC	98-40	62Z07A070H	ΔSPR	123-78	74H10PC	ΔFSC	98-62
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54F163DM	ΔFSC	149-78	54LS532FM	FSC	87-49	54S10DM	ΔFSC	98-41	62Z07A080H	ΔSPR	123-80	74H11PC	ΔFSC	77-61
54F163FM	ΔFSC	149-79	54LS533DM	FSC	89-85	54S10FM	ΔFSC	98-42	62Z07A090H	ΔSPR	123-81	74H20DC	ΔFSC	98-63
54F175DM	ΔFSC	51-9	54LS542DM	FSC	120-58	54S11DM	ΔFSC	77-54	62Z07A100H	ΔSPR	123-82	74H20PC	ΔFSC	98-64
54F175FM	ΔFSC	51-10	54LS542FM	FSC	120-59	54S11FM	ΔFSC	77-55	62Z14A010F	ΔSPR	123-83	74H21DC	ΔFSC	77-62
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54F181FM	ΔFSC	168-89	54LS551FM	FSC	83-14	54S15FM	ΔFSC	76-3	62Z14A010T	ΔSPR	123-85	74H22DC	ΔFSC	98-65
54F182DM	ΔFSC	170-45	54LS554DM	FSC	83-15	54S20DM	ΔFSC	98-43	62Z14A020F	ΔSPR	123-86	74H22PC	ΔFSC	98-66
54F182FM	ΔFSC	170-46	54LS554FM	FSC	83-16	54S20FM	ΔFSC	98-44	62Z14A020H	ΔSPR	123-87	74H30DC	ΔFSC	98-67
54F280DM	ΔFSC	173-10	54LS555DM	FSC	83-17	54S22DM	ΔFSC	98-45	62Z14A020H	ΔSPR	123-88	74H30PC	ΔFSC	98-68
54F280FM	ΔFSC	173-11	54LS574DM	ΔFSC	50-32	54S22FM	ΔFSC	94-25	62Z14A025F	ΔSPR	123-89	74H50DC	ΔFSC	83-63
54F283DM	ΔFSC	161-15	54LS574FM	ΔFSC	50-33	54S30DM	FSC	98-46	62Z14A025H	ΔSPR	123-90	74H50PC	ΔFSC	83-64
54F283FM	ΔFSC	161-16	54LS576DM	ΔFSC	40-56	54S30FM	FSC	98-47	62Z14A025T	ΔSPR	123-91	74H50PC	ΔFSC	83-65
54F373DM	ΔFSC	179-44	54LS576FM	ΔFSC	40-57	54S32DM	ΔFSC	87-75	62Z14A030F	ΔSPR	123-92	74H51DC	ΔFSC	83-66
54F373FM	ΔFSC	179-45	54LS578DM	ΔFSC	40-58	54S32FM	ΔFSC	87-76	62Z14A030H	ΔSPR	123-93	74H51PC	ΔFSC	83-67
54F374DM	ΔFSC	51-11	54LS578FM	ΔFSC	40-59	54S51DM	ΔFSC	82-71	62Z14A030T	ΔSPR	123-94	74H52PC	ΔFSC	82-23
54F374FM	ΔFSC	51-12	54LS583ADM	ΔFSC	161-34	54S51FM	ΔFSC	82-72	62Z14A040F	ΔSPR	123-95	74H53DC	ΔFSC	83-68
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54F533FM	ΔFSC	179-56	54LS585DM	ΔFSC	166-39	54S64FM	ΔFSC	83-60	62Z14A040T	ΔSPR	123-97	74H54DC	ΔFSC	83-70
54F534DM	ΔFSC	51-13	54LS585FM	ΔFSC	166-40	54S65DM	ΔFSC	82-73	62Z14A050F	ΔSPR	123-98	74H54PC	ΔFSC	83-71
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54H00DM	ΔFSC	98-26	54LS592FM	ΔFSC	153-25	54S74FM	ΔFSC	51-26	62Z14A050T	ΔSPR	123-100	74H61DC	ΔFSC	113-77
54H00FM	ΔFSC	98-27	54LS593DM	ΔFSC	147-100	54S86DM	ΔFSC	111-63	62Z14A060F	ΔSPR	123-101	74H61PC	ΔFSC	113-78
54H01DM	ΔFSC	98-28	54LS593FM	ΔFSC	147-101	54S86FM	ΔFSC	111-64	62Z14A060H	ΔSPR	123-102	74H62PC	ΔFSC	113-79
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54H08FM	ΔFSC	75-101	54LS109DM	ΔFSC	40-62	54S112DM	ΔFSC	42-63	62Z14A075F	ΔSPR	123-105	74H73DC	ΔFSC	42-71
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54H10FM	ΔFSC	98-31	54LS112DM	ΔFSC	40-64	54S113FM	ΔFSC	42-65	62Z14A075T	ΔSPR	123-107	74H74DC	ΔFSC	51-37
54H11DM	ΔFSC	77-49	54LS112FM	ΔFSC	40-65	54S114FM	ΔFSC	42-66	62Z14A080H	ΔSPR	123-108	74H74PC	ΔFSC	51-38
54H11FM	ΔFSC	77-50	54LS113FM	ΔFSC	40-66	54S133DM	ΔFSC	98-48	62Z14A080T	ΔSPR	123-109	74H87DC	ΔFSC	182-75
54H20DM	ΔFSC	98-32	54LS114FM	ΔFSC	40-67	54S133FM	ΔFSC	98-49	62Z14A080T	ΔSPR	123-110	74H87PC	ΔFSC	182-76
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54H21DM	ΔFSC	77-51	54LS133FM	ΔFSC	94-46	54S135FM	ΔFSC	89-72	62Z14A100F	ΔSPR	124-2	74H103DC	ΔFSC	42-74
54H21FM	ΔFSC	77-52	54LS136DM	ΔFSC	111-13	54S175DM	ΔFSC	51-27	62Z14A100H	ΔSPR	124-3	74H103PC	ΔFSC	42-75
54H22DM	ΔFSC	98-34	54LS136FM	ΔFSC	111-14	54S175FM	ΔFSC	51-28	62Z14A100T	ΔSPR	124-4	74H106DC	ΔFSC	42-76
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54H30FM	ΔFSC	98-37	54LS161FM	ΔFSC	144-63	54S182DM	ΔFSC	170-58	62Z14A200F	ΔSPR	124-7	74H108PC	ΔFSC	42-79
54H50DM	ΔFSC	83-51	54LS162FM	ΔFSC	139-78	54S182FM	ΔFSC	170-59	62Z14A200H	ΔSPR	124-8	74H183PC	ΔFSC	160-77
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4025BPC	FSC	60 - 80	4516BDM	FSC	132 - 83	5483AFM	FSC	161 - 23	9007FM	FSC	93 - 105	9316PC	AMD	152 - 81
4027B	MULB	35 - 31	4516BFC	FSC	132 - 84	5485DM	FSC	166 - 22	9008DC	FSC	75 - 99		FSC	
	PHIN		4516BFM	FSC	132 - 85	5485FM	FSC	166 - 23	9008DM	FSC	75 - 96	9319FM	FSC	152 - 68
4027BDC	FSC	34 - 59	4516BPC	FSC	132 - 86	5486DM	FSC	111 - 71	9008FM	FSC	75 - 97	9319PC	FSC	152 - 69
4027BDM	FSC	34 - 60	4518BDC	FSC	129 - 29	5486FM	FSC	111 - 72	9012DC	FSC	94 - 2	9320FM	FSC	152 - 70
4027BFC	FSC	34 - 61	4518BDM	FSC	129 - 30	5490ADM	FSC	142 - 78	9012DM	FSC	93 - 106	9321PC	AMD	118 - 37
4027BFC	FSC	34 - 62	4518BFC	FSC	129 - 31	5490AFM	FSC	142 - 79	9012FM	FSC	93 - 107	9324DC	AMD	166 - 88
4027BPC	FSC	34 - 63	4518BFM	FSC	129 - 32	5490DM	FSC	142 - 80	9014DC	FSC	111 - 12		FSC	
4028BDC	FSC	116 - 95	4518BPC	FSC	129 - 33	5492ADM	FSC	153 - 27	9014DM	FSC	111 - 11	9324DM	AMD	166 - 89
4028BDM	FSC	116 - 96	4520BDC	FSC	132 - 33	5492AFM	FSC	153 - 28	9014FM	FSC	111 - 15		FSC	
4028BFC	FSC	116 - 97	4520BDM	FSC	132 - 34	5493ADM	FSC	152 - 63	9015DC	FSC	89 - 77	9324FM	AMD	166 - 90
4028BFM	FSC	116 - 98	4520BFC	FSC	132 - 35	5493AFM	FSC	152 - 64	9015DM	FSC	89 - 79		FSC	
4028BPC	FSC	116 - 99	4520BFM	FSC	132 - 36	5900	DIS	116 - 28	9015FM	FSC	89 - 78	9324PC	AMD	166 - 91
4029BDC	FSC	138 - 21	4520BPC	FSC	132 - 37	6207A005F	SPR	124 - 11	9020DC	FSC	40 - 23		FSC	
4029BDM	FSC	138 - 22	4528BDC	FSC	122 - 15	6207A010F	SPR	124 - 12	9020DM	FSC	40 - 15	9334DC	AMD	180 - 34
4029BFC	FSC	138 - 23	4528BDM	FSC	122 - 16	7400DC	FSC	98 - 108	9020FM	FSC	40 - 16		FSC	
4029BFM	FSC	138 - 24	4528BFC	FSC	122 - 17	7400PC	FSC	98 - 109	9022DC	FSC	40 - 24	9334DM	AMD	180 - 35
4029BPC	FSC	138 - 25	4528BFM	FSC	122 - 18	7401DC	FSC	98 - 110	9022DM	FSC	40 - 17	9334DM#	FSC	181 - 4
4030BDC	FSC	65 - 42	4528BPC	FSC	122 - 19	7401PC	FSC	99 - 1	9022FM	FSC	40 - 18	9334FM	AMD	180 - 36
4030BDM	FSC	65 - 43	4531BDC	FSC	172 - 20	7402DC	FSC	90 - 71	9024DC	FSC	40 - 25	9334FM#	FSC	181 - 5
4030BFC	FSC	65 - 44	4531BDM	FSC	172 - 21	7402PC	FSC	90 - 72	9024DM	FSC	40 - 19	9334PC	AMD	180 - 37
4030BFM	FSC	65 - 45	4531BFC	FSC	172 - 22	7403DC	FSC	99 - 2	9024FM	FSC	40 - 20		FSC</	

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TYPE No.	MFRS	Pq&Line	TYPE No.	MFRS	Pq&Line	TYPE No.	MFRS	Pq&Line	TYPE No.	MFRS	Pq&Line			
9352FM	FSC	119 - 16	10103N	SIC	73 - 39	54121FM	FSC	127 - 54	100118F	SIC	70 - 107	AM25LS193PC	AMD	149 - 9
9360DC	AMD	142 - 33	10104F	MULB	74 - 48	54122DM	FSC	125 - 61	100118Y	SIC	70 - 108	AM25LS373DC	AMD	180 - 76
9360DM	AMD	142 - 34		PHIN		54122FM	FSC	125 - 62	100130FC	FSC	176 - 102	AM25LS373DM	AMD	180 - 77
9360FM	AMD	142 - 35	10104N	SIC	74 - 49	54123DM	FSC	124 - 56	100131D	PHIN	39 - 18	AM25LS373FM	AMD	180 - 78
9360PC	AMD	142 - 36	10105F	MULB	73 - 40	54123FM	FSC	124 - 57	100150D	PHIN	39 - 19	AM25LS373PC	AMD	180 - 79
9366DC	AMD	153 - 9		PHIN		54145DM	FSC	119 - 17	100150F	PHIN	39 - 20	AM25LS381DC	AMD	168 - 56
9366DM	AMD	153 - 10	10105N	SIC	73 - 41	54145FM	FSC	119 - 18	100150FC	FSC	177 - 12	AM25LS381DM	AMD	168 - 57
9366FM	AMD	153 - 11	10106F	MULB	74 - 28	54154DM	FSC	120 - 73	100160D	PHIN	172 - 32	AM25LS381FM	AMD	168 - 58
9366PC	AMD	153 - 12		PHIN		54154FM	FSC	120 - 74	100166F	PHIN	165 - 71	AM25LS381PC	AMD	168 - 59
9386DC	FSC	115 - 6	10106N	SIC	74 - 29	54160DM	FSC	142 - 37		SIC		AM25LS533DC	AMD	180 - 80
9386DM	FSC	115 - 7	10107F	MULB	74 - 76	54160FM	FSC	142 - 38	100180F	PHIN	160 - 8	AM25LS533DM	AMD	180 - 81
9386FM	FSC	115 - 8		PHIN		54161DM	FSC	148 - 2		SIC		AM25LS533FM	AMD	180 - 82
9386PC	FSC	115 - 9	10107N	SIC	74 - 77	54161FM	FSC	148 - 3	100180Y	SIC	160 - 7	AM25LS533PC	AMD	180 - 83
9502DC	FSC	55 - 39	10108F	MULB	72 - 11	54162DM	FSC	142 - 39	100181Y	SIC	168 - 18	AM25LS2516DC	AMD	163 - 89
9503DC	FSC	55 - 40		PHIN		54163DM	FSC	148 - 4	340085DC	FSC	165 - 26	AM25LS2516DM	AMD	163 - 90
9504DC	FSC	71 - 75	10108N	SIC	72 - 12	54163FM	FSC	148 - 5	340085DM	FSC	165 - 27	AM25LS2517DC	AMD	168 - 60
9504DC	FSC	176 - 103	10109F	MULB	73 - 42	54167FM	FSC	158 - 6	340085FC	FSC	165 - 28	AM25LS2517DM	AMD	168 - 61
9600DC	AMD	125 - 11		PHIN		54175DM	FSC	51 - 52	340085FM	FSC	165 - 29	AM25LS2517FM	AMD	168 - 62
9600DM	AMD	125 - 12	10109N	SIC	73 - 43	54175FM	FSC	51 - 53	340085PC	FSC	165 - 30	AM25LS2517PC	AMD	168 - 63
9600DM	AMD	124 - 107	10110F	MULB	72 - 37	54176DM	FSC	152 - 71	Am25LS373XC#ai		181 - 13	AM25LS2568DC	AMD	143 - 92
9600DM	AMD	155 - 58		PHIN		54176FM	FSC	152 - 72		AMD		AM25LS2568DM	AMD	143 - 90
9600DM	AMD	155 - 60	10110N	SIC	72 - 38	54177DM	FSC	144 - 73	Am25LS373XM#ai		181 - 19	AM25LS2568FM	AMD	143 - 91
9600DM	AMD	155 - 61	10111F	MULB	74 - 30	54177FM	FSC	144 - 74		AMD		AM25LS2568PC	AMD	143 - 93
9600DM	AMD	124 - 108		PHIN		54180DM	FSC	172 - 73	Am25LS533XC#ai		181 - 14	AM25LS2569DC	AMD	150 - 53
9600DM	AMD	155 - 62	10111N	SIC	74 - 31	54180FM	FSC	172 - 74		AMD		AM25LS2569DM	AMD	150 - 49
9600DM	AMD	125 - 12	10112F	MULB	73 - 44	54190FM	FSC	141 - 26	Am25LS533XM#ai		181 - 20	AM25LS2569FM	AMD	150 - 50
9601DC	AMD	155 - 63		PHIN		54191DM	FSC	146 - 40		AMD		AM25LS2569PC	AMD	150 - 54
9601DC	AMD	125 - 13	10112N	SIC	73 - 45	54191FM	FSC	146 - 41	Am25LS2548DC	AMD	118 - 38	AM25S05DC	AMD	163 - 21
9601DM	AMD	124 - 109	10113F	MULB	74 - 60	54192DM	FSC	142 - 2	Am25LS2548DM	AMD	118 - 39	AM25S05DM	AMD	163 - 22
9601DM	AMD	124 - 110		PHIN		54192FM	FSC	141 - 27	Am25LS2548FM	AMD	118 - 40	AM25S05FM	AMD	163 - 23
9601DM	AMD	124 - 110	10113N	SIC	74 - 61	54193DM	FSC	147 - 72	Am25LS2548PC	AMD	118 - 41	AM25S05PC	AMD	163 - 24
9601DM	AMD	124 - 110	10117F	MULB	72 - 7	54193FM	FSC	147 - 73	Am25S557DC	AMD	163 - 68	AM26L02DC	AMD	125 - 37
9601DM	AMD	124 - 110		PHIN		54196DM	FSC	143 - 7	Am25S557DM	AMD	163 - 69	AM26L02DM	AMD	125 - 38
9601PC	AMD	125 - 14	10117N	SIC	72 - 8	54196FM	FSC	143 - 5	Am25S558DC	AMD	163 - 70	AM26L02FM	AMD	125 - 39
9602DC	AMD	155 - 64	10118F	MULB	72 - 41	54197DM	FSC	149 - 43	Am25S558DM	AMD	163 - 71	AM26L02PC	AMD	125 - 40
9602DC	AMD	125 - 25		PHIN		54197FM	FSC	149 - 44	Am54LS373X#ai	AMD	181 - 15	AM26S02DC	AMD	125 - 65
9602DC	AMD	125 - 25	10118N	SIC	72 - 42	57508	MMI	163 - 2	Am54LS373X#ai	AMD	181 - 16	AM26S02DM	AMD	125 - 66
9602DM	AMD	126 - 59	10119F	MULB	72 - 43	57516	MMI	163 - 4	Am74LS373X#ai	AMD	181 - 17	AM26S02FM	AMD	125 - 67
9602DM	AMD	126 - 60		PHIN		57518	MMI	163 - 5	Am74LS373X#ai	AMD	181 - 18	AM26S02PC	AMD	125 - 68
9602DM	AMD	126 - 60	10119N	SIC	72 - 44	57558	MMI	163 - 72	Am688DL6	AMD	185 - 6	AM26L373J	AMD	180 - 84
9602DM	AMD	126 - 60	10121F	MULB	72 - 85	57558-1F42#mil	MMI	163 - 73	Am688DL7	AMD	185 - 7	AM26L373W	AMD	180 - 85
9602PC	AMD	125 - 26		PHIN					Am688DL8	AMD	185 - 8	AM54LS533J	AMD	180 - 86
9650-1DC	FSC	182 - 15	10121N	SIC	72 - 86				Am688DM6	AMD	185 - 9	AM54LS533W	AMD	180 - 87
9650-1DM	FSC	182 - 16	10130F	MULB	176 - 77	57558-1J40#mil	MMI	163 - 59	Am688DM7	AMD	185 - 10	AM74LS373J	AMD	180 - 88
9650-2DC	FSC	182 - 17		PHIN					Am688DM8	AMD	185 - 11	AM74LS373N	AMD	180 - 89
9650-2DM	FSC	182 - 18	10131F	MULB	39 - 58	57558F42#mil	MMI	163 - 60	Am29806	AMD	119 - 8	AM74LS533J	AMD	180 - 90
9650-3DC	FSC	182 - 19		PHIN		57558J40#mil	MMI	163 - 61	Am29809	AMD	165 - 102	AM74LS533N	AMD	180 - 91
9650-3DM	FSC	182 - 19	10133F	MULB	176 - 85	67508	MMI	163 - 3	Am29841	AMD	181 - 24	AM93L34DC	AMD	181 - 9
9650-3DM	FSC	182 - 20		PHIN		67516	MMI	163 - 6	Am29842	AMD	181 - 25	AM93L34DM	AMD	181 - 10
9903HC	SGAI	75 - 46	10135F	MULB	39 - 3	67518	MMI	163 - 7	Am29843	AMD	181 - 22	AM93L34FM	AMD	181 - 11
9905HC	SGAI	39 - 105		PHIN		67558	MMI	163 - 66	Am29844	AMD	181 - 23	AM93L34PC	AMD	181 - 12
9907HC	SGAI	75 - 47	10136F	MULB	139 - 42	67558-1F42	MMI	163 - 67	Am29845	AMD	179 - 93	AM2501DC	AMD	153 - 4
9914HC	SGAI	75 - 48		PHIN		67558-1F42	MMI	163 - 62	Am29846	AMD	179 - 94	AM2501DM	AMD	153 - 5
9915HC	SGAI	75 - 51	10137F	MULB	139 - 30	67558-1J40	MMI	163 - 63	AmZ8120	AMD	51 - 56	AM2505DC	AMD	163 - 33
9926HM	SGAI	37 - 29		PHIN		67558F42	MMI	163 - 64	AmZ8121	AMD	165 - 101	AM2505DM	AMD	163 - 34
9930BC	SGAI	68 - 32	10160F	MULB	172 - 56	67558J40	MMI	163 - 65	AM25L05DC	AMD	163 - 37	AM2505FM	AMD	163 - 35
9930DC	SGAI	68 - 33		PHIN		74107DC	FSC	42 - 103	AM25L05DM	AMD	163 - 38	AM2505PC	AMD	163 - 36
9930DM	SGAI	68 - 32	10170F	MULB	172 - 48	74107PC	FSC	42 - 104	AM25L05FM	AMD	163 - 39	AM2506DC	AMD	169 - 17
9930FC	SGAI	68 - 34		PHIN		74121DC	FSC	127 - 55	AM25L05PC	AMD	163 - 40	AM2506DM	AMD	169 - 18
9930FM	SGAI	68 - 23	10175F	MULB	177 - 4	74121PC	FSC	127 - 56	AM25L06DC	AMD	169 - 62	AM2506FM	AMD	169 - 19
9932BC	SGAI	68 - 35		PHIN		74122DC	FSC	125 - 63	AM25L06DM	AMD	169 - 63	AM2506PC	AMD	169 - 20
9932DC	SGAI	68 - 36	10181F	MULB	168 - 33	74122PC	FSC	125 - 64	AM25L06FM	AMD	169 - 64	AM2600DC	AMD	125 - 15
9932DM	SGAI	68 - 24		PHIN		74123DC	FSC	124 - 58	AM25L06PC	AMD	169 - 65	AM2600DM	AMD	125 - 1
9932FC	SGAI	68 - 37	10210F	MULB	72 - 16	74123PC	FSC	124 - 59	AM25LS14DC	AMD	163 - 85	AM2600FM	AMD	125 - 2
9932FM	SGAI	68 - 25		PHIN		74141DC	FSC	119 - 19	AM25LS14DM	AMD	163 - 86	AM2600PC	AMD	125 - 16
9933BC	SGAI	70 - 72	10210N	SIC	72 - 17	74145DC	FSC	119 - 20	AM25LS14FM	AMD	163 - 87	AM2602DC	AMD	125 - 17
9933DC	SGAI	70 - 73	10211F	MULB	73 - 59	74145PC	FSC	119 - 21	AM25LS14PC	AMD	163 - 88	AM2602DM	AMD	125 - 3
9933DM	SGAI	70 - 74		PHIN		74154DC	FSC	120 - 75	AM25LS15DC	AMD	162 - 41	AM2602FM	AMD	125 - 4
9933FC	SGAI	70 - 75	10211N	SIC	73 - 60	74154PC	FSC	120 - 76	AM25LS15DM	AMD	162 - 42	AM2602PC	AMD	125 - 18
9933FM	SGAI	70 - 76	10212B	MULB	72 - 89	74160DC	FSC	142 - 40	AM25LS15FM	AMD	162 - 43	AM9334DC	AMD	180 - 62
9934BC	SGAI	70 - 17		PHIN		74160PC	FSC	142 - 41	AM25LS15PC	AMD	162 - 44	AM9334DM	AMD	180 - 63
9934DC	SGAI	70 - 18	10212F	MULB	72 - 90	74161DC	FSC	148 - 6	AM25LS138DC	AMD	121 - 73	AM9334FM	AMD	180 - 64
9934FC	SGAI	70 - 19		PHIN		74161PC	FSC	146 - 42	AM25LS138DM	AMD	121 - 74	AM9334PC	AMD	180 - 65
9944BC	SGAI	68 - 38	10231F	MULB	39 - 68	74162PC	FSC	141 - 28	AM25LS138FM	AMD	121 - 75	AM26123DC	AMD	124 - 60
9944DC	SGAI	68 - 39		PHIN		74163DC	FSC	146 - 43	AM25LS138PC	AMD	121 - 76	AM26123DM	AMD	124 - 61
9944DM	SGAI	68 - 26	10231N	SIC	39 - 69	74163PC	FSC	146 - 44	AM25LS139DC	AMD	121 - 32	AM26123FM	AMD	124 - 62
9944FC	SGAI	68 - 40		PHIN		74167PC	FSC	151 - 42	AM25LS139DM	AMD	121 - 33	AM26123PC	AMD	124 - 63
9944FM	SGAI	68 - 27	40085BDC	FSC	165 - 35				AM25LS139FM	AMD	121 - 34	AMZ8133	AMD	179 - 90
9945BC	SGAI	38 - 65	40085BDM	FSC	165 - 36	74175DC	FSC	51 - 54	AM25LS139PC	AMD	121 - 35	AMZ8173	AMD	179 - 74
9945DC	SGAI	38 - 66	40085BFC	FSC	165 - 37	74175PC	FSC	51 - 55	BDM1615500	ANA	151 - 75	ANA	116 - 4	
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CD4001BCN	*NSC	60 - 87	CD4019BD	RCA	56 - 60	CD4030MJ	*NSC	65 - 24	CD4070BCJ	*NSC	65 - 55	CD4518BCN	*NSC	129 - 76
CD4001BD	*RCA	61 - 54	CD4019BE	RCA	56 - 61	CD4030MM	*NSC	65 - 25	CD4070BCN	*NSC	65 - 56	CD4518BD	*RCA	130 - 21
CD4001BE	*RCA	61 - 55	CD4019BF	RCA	56 - 62	CD4032AD	*RCA	159 - 16	CD4070BD	*RCA	65 - 57	CD4518BE	*RCA	130 - 22
CD4001BF	*RCA	61 - 56	CD4019BM	*NSC	56 - 71	CD4032AE	*RCA	159 - 14	CD4070BE	*RCA	65 - 58	CD4518BF	*RCA	130 - 23
CD4001BMJ	*NSC	60 - 88	CD4020AD	*RCA	132 - 97	CD4032AF	*RCA	159 - 17	CD4070BF	*RCA	65 - 59	CD4518BMJ	*NSC	129 - 77
CD4001BMW	*NSC	60 - 89	CD4020AE	*RCA	132 - 98	CD4032BF	*RCA	159 - 28	CD4070BMJ	*NSC	65 - 60	CD4518BMW	*NSC	129 - 78
CD4001CJ	*NSC	60 - 4	CD4020AF	*RCA	132 - 99	CD4032BE	*RCA	159 - 29	CD4070BMW	*NSC	65 - 61	CD4519BC	*NSC	56 - 85
CD4001CN	*NSC	60 - 5	CD4020BCJ	*NSC	132 - 10	CD4032BF	*RCA	159 - 30	CD4071BCJ	*NSC	58 - 23	CD4519BM	*NSC	56 - 86
CD4001MJ	*NSC	60 - 6	CD4020BCN	*NSC	132 - 11	CD4033AD	*RCA	129 - 88	CD4071BCN	*NSC	58 - 24	CD4520BCJ	*NSC	132 - 18
CD4001MW	*NSC	60 - 7	CD4020BD	*RCA	134 - 46	CD4033AE	*RCA	129 - 89	CD4071BD	*RCA	58 - 25	CD4520BCN	*NSC	132 - 19
CD4001UBD	*RCA	55 - 13	CD4020BE	*RCA	134 - 47	CD4033AF	*RCA	129 - 90	CD4071BE	*RCA	58 - 26	CD4520BD	*RCA	133 - 30
CD4001UBE	*RCA	55 - 14	CD4020BF	*RCA	134 - 48	CD4033BF	*RCA	137 - 44	CD4071BF	*RCA	58 - 27	CD4520BE	*RCA	133 - 31
CD4001UBF	*RCA	55 - 15	CD4020BMJ	*NSC	132 - 12	CD4033BE	*RCA	137 - 45	CD4071BMJ	*NSC	58 - 28	CD4520BF	*RCA	133 - 32
CD4002AD	*RCA	60 - 30	CD4020BMW	*NSC	132 - 13	CD4033BF	*RCA	137 - 46	CD4071BMW	*NSC	58 - 29	CD4520BMJ	*NSC	132 - 20
CD4002AE	*RCA	60 - 31	CD4022AD	*RCA	137 - 6	CD4033BH	*RCA	137 - 47	CD4072BD	*RCA	58 - 30	CD4520BMW	*NSC	132 - 21
CD4002AF	*RCA	60 - 8	CD4022AE	*RCA	137 - 7	CD4038AD	*RCA	159 - 18	CD4072BE	*RCA	58 - 31	CD4522BC	*NSC	130 - 18
CD4002BD	*RCA	59 - 63	CD4022AF	*RCA	137 - 8	CD4038AE	*RCA	159 - 15	CD4072BF	*RCA	58 - 32	CD4522BM	*NSC	130 - 19
CD4002BE	*RCA	59 - 64	CD4022BF	*NSC	136 - 85	CD4038AF	*RCA	159 - 19	CD4073BCJ	*NSC	55 - 103	CD4526BC	*NSC	133 - 17
CD4002BF	*RCA	59 - 65	CD4022BCN	*NSC	136 - 86	CD4038BD	*RCA	159 - 31	CD4073BCN	*NSC	55 - 104	CD4526BM	*NSC	133 - 18
CD4002CJ	*NSC	60 - 9	CD4022BD	*RCA	137 - 101	CD4038BE	*RCA	159 - 32	CD4073BD	*RCA	55 - 105	CD4527BCJ	*NSC	156 - 41
CD4002CN	*NSC	60 - 10	CD4022BE	*RCA	137 - 102	CD4038BF	*RCA	159 - 33	CD4073BE	*RCA	55 - 106	CD4527BCN	*NSC	156 - 42
CD4002MJ	*NSC	60 - 11	CD4022BF	*RCA	137 - 103	CD4040AD	*RCA	132 - 57	CD4073BF	*RCA	55 - 107	CD4527BD	*RCA	156 - 43
CD4002MW	*NSC	60 - 12	CD4022BMJ	*NSC	136 - 87	CD4040AE	*RCA	132 - 58	CD4073BMJ	*NSC	55 - 108	CD4527BE	*RCA	156 - 44
CD4002UBD	*RCA	61 - 48	CD4022BMW	*NSC	136 - 88	CD4040AF	*RCA	132 - 59	CD4073BMW	*NSC	55 - 109	CD4527BF	*RCA	156 - 45
CD4002UBE	*RCA	61 - 49	CD4023AD	*RCA	63 - 56	CD4040AG	*NSC	132 - 60	CD4075BCJ	*NSC	58 - 33	CD4527BMJ	*NSC	156 - 46
CD4002UBF	*RCA	61 - 50	CD4023AE	*RCA	63 - 57	CD4040BCN	*NSC	132 - 61	CD4075BCN	*NSC	58 - 34	CD4527BMW	*NSC	156 - 47
CD4007AD	*RCA	66 - 39	CD4023AF	*RCA	63 - 41	CD4040BD	*RCA	134 - 52	CD4075BD	*RCA	58 - 35	CD4532BD #mil	*RCA	184 - 50
CD4007AE	*RCA	66 - 40	CD4023BCJ	*NSC	64 - 5	CD4040BE	*RCA	134 - 53	CD4075BE	*RCA	58 - 36	CD4532BE	*RCA	184 - 51
CD4007AF	*RCA	66 - 41	CD4023BCN	*NSC	64 - 6	CD4040BF	*RCA	134 - 54	CD4075BF	*RCA	58 - 37	CD4532BF #mil	*RCA	184 - 52
CD4007C	*NSC	66 - 48	CD4023BD	*RCA	63 - 22	CD4040BMJ	*NSC	132 - 62	CD4075BMJ	*NSC	58 - 38	CD4532BH #mil	*RCA	184 - 53
CD4007M	*NSC	66 - 49	CD4023BE	*RCA	63 - 23	CD4040BMW	*NSC	132 - 63	CD4075BMW	*NSC	58 - 39	CD4532BK #mil	*RCA	184 - 54
CD4007UBD	*RCA	66 - 29	CD4023BF	*RCA	63 - 24	CD4042AD	*RCA	175 - 28	CD4076BC	*NSC	37 - 8	CD4536BD	*RCA	122 - 82
CD4007UBE	*RCA	66 - 30	CD4023BMJ	*NSC	64 - 7	CD4042AE	*RCA	175 - 46	CD4076BM	*NSC	37 - 9	CD4536BE	*RCA	122 - 83
CD4007UBF	*RCA	66 - 31	CD4023BMW	*NSC	64 - 8	CD4042AF	*RCA	175 - 29	CD4077BD	*RCA	66 - 1	CD4536BF	*RCA	122 - 84
CD4008AD	*RCA	159 - 89	CD4023CJ	*NSC	63 - 42	CD4042BCJ	*NSC	174 - 98	CD4077BE	*RCA	66 - 2	CD4536BH	*RCA	122 - 85
CD4008AE	*RCA	159 - 89	CD4023CN	*NSC	63 - 43	CD4042BCN	*NSC	174 - 99	CD4077BF	*RCA	66 - 3	CD4536BD	*RCA	122 - 86
CD4008AF	*RCA	159 - 90	CD4023MJ	*NSC	63 - 44	CD4042BD	*RCA	175 - 7	CD4078BD	*RCA	61 - 64	CD4536BE	*RCA	154 - 66
CD4008BCJ	*NSC	159 - 59	CD4023MM	*NSC	63 - 45	CD4042BE	*RCA	175 - 8	CD4078BE	*RCA	61 - 65	CD4536BF	*RCA	154 - 67
CD4008BCN	*NSC	159 - 60	CD4023UBD	*RCA	64 - 72	CD4042BF	*RCA	175 - 9	CD4078BF	*RCA	61 - 66	CD4541BD	*RCA	122 - 77
CD4008BD	*RCA	159 - 66	CD4023UBE	*RCA	64 - 73	CD4042BMJ	*NSC	174 - 100	CD4081BCJ	*NSC	55 - 110	CD4541BE	*RCA	122 - 78
CD4008BE	*RCA	159 - 67	CD4023UBF	*RCA	64 - 74	CD4042BMW	*NSC	174 - 101	CD4081BCN	*NSC	56 - 1	CD4541BF	*RCA	122 - 79
CD4008BF	*RCA	159 - 68	CD4023AD	*RCA	132 - 100	CD4043AD	*RCA	175 - 33	CD4081BD	*RCA	56 - 2	CD4541BH	*RCA	122 - 80
CD4008BMJ	*NSC	159 - 61	CD4023AE	*RCA	132 - 101	CD4043AE	*RCA	175 - 34	CD4081BE	*RCA	56 - 3	CD4555BD	*RCA	116 - 51
CD4008BMW	*NSC	159 - 62	CD4023AF	*RCA	132 - 102	CD4043AF	*RCA	175 - 35	CD4081BF	*RCA	56 - 4	CD4555BF	*RCA	116 - 52
CD4011AD	*RCA	63 - 52	CD4024BCJ	*NSC	132 - 53	CD4043AD	*RCA	174 - 82	CD4081BMJ	*NSC	56 - 5	CD4555BE	*RCA	116 - 53
CD4011AE	*BELI	63 - 53	CD4024BCN	*NSC	132 - 54	CD4043AE	*RCA	174 - 83	CD4081BMW	*NSC	56 - 6	CD4555BF	*RCA	116 - 54
			CD4024BD	*RCA	134 - 49	CD4043BF	*RCA	174 - 84	CD4082BD	*RCA	56 - 7	CD4555BE	*RCA	116 - 55
			CD4024BE	*RCA	134 - 50	CD4043CJ	*NSC	175 - 36	CD4082BE	*RCA	56 - 8	CD4585BD	*RCA	165 - 40
			CD4024BF	*RCA	134 - 51	CD4043CN	*NSC	175 - 37	CD4082BF	*RCA	56 - 9	CD4585BE	*RCA	165 - 41
			CD4024BMJ	*NSC	132 - 55	CD4043MJ	*NSC	175 - 15	CD4085BD	*RCA	57 - 33	CD4585BF	*RCA	165 - 42
			CD4024BMW	*NSC	132 - 56	CD4043MM	*NSC	175 - 16	CD4085BE	*RCA	57 - 34	CD4585BH	*RCA	165 - 43
CD4011BCJ	*NSC	64 - 1	CD4024AD	*RCA	60 - 32	CD4044AD	*RCA	174 - 22	CD4085BF	*RCA	57 - 35	CD4723BCJ	*NSC	175 - 10
CD4011BCN	*NSC	64 - 2	CD4024AE	*RCA	60 - 33	CD4044AE	*RCA	174 - 23	CD4086BD	*RCA	57 - 36	CD4723BCN	*NSC	175 - 11
CD4011BD	*RCA	64 - 89	CD4024AF	*RCA	60 - 30	CD4044AF	*RCA	174 - 24	CD4086BE	*RCA	57 - 37	CD4723BMJ	*NSC	175 - 12
CD4011BE	*RCA	64 - 90	CD4024BF	*RCA	60 - 31	CD4044BF	*RCA	174 - 25	CD4086BF	*RCA	57 - 38	CD4723BMW	*NSC	175 - 13
			CD4024BCJ	*NSC	60 - 91	CD4044BD	*RCA	174 - 85	CD4089BCJ	*NSC	156 - 53	CD4724BCJ	*NSC	176 - 16
CD4011BF	*RCA	64 - 91	CD4024BE	*RCA	59 - 66	CD4044BE	*RCA	174 - 86	CD4089BCN	*NSC	156 - 54	CD4724BCN	*NSC	176 - 17
CD4011BMJ	*NSC	64 - 3	CD4024BF	*RCA	59 - 67	CD4044BF	*RCA	174 - 87	CD4089BD	*RCA	156 - 55	CD4724BD	*RCA	175 - 102
CD4011BMW	*NSC	64 - 4	CD4025AD	*RCA	59 - 68	CD4044CJ	*NSC	175 - 38	CD4089BE	*RCA	156 - 56	CD4724BE	*RCA	175 - 103
CD4011CJ	*NSC	63 - 32	CD4025AE	*RCA	59 - 69	CD4044CJ	*NSC	175 - 39	CD4089BF	*RCA	156 - 57	CD4724BF	*RCA	175 - 104
CD4011CN	*NSC	63 - 33	CD4025AF	*RCA	60 - 92	CD4044CN	*NSC	175 - 40	CD4089BMJ	*NSC	156 - 58	CD4724BH	*RCA	175 - 105
CD4011MJ	*NSC	63 - 34	CD4025AG	*RCA	60 - 93	CD4044MJ	*NSC	175 - 17	CD4089BMW	*NSC	156 - 59	CD4724BJ	*NSC	176 - 18
CD4011MW	*NSC	63 - 35	CD4025AH	*RCA	60 - 14	CD4044MW	*NSC	175 - 18	CD4093BD	*RCA	62 - 65	CD4724BMJ	*NSC	176 - 19
CD4011UBD	*RCA	64 - 66	CD4025AI	*RCA	60 - 15	CD4045AD	*RCA	122 - 47	CD4093BE	*RCA	62 - 66	CD7217AC	DTL	135 - 59
CD4011UBE	*RCA	64 - 67	CD4025AJ	*RCA	60 - 16	CD4045AE	*RCA	122 - 48	CD4093BF	*RCA	62 - 67	CD7217BC	DTL	135 - 60
CD4011UBF	*RCA	64 - 68	CD4025AK	*RCA	60 - 17	CD4045AF	*RCA	122 - 54	CD4093BE	*RCA	35 - 34	CD7217C	DTL	135 - 61
CD4012AD	*RCA	63 - 54	CD4025AL	*RCA	61 - 51	CD4045AG	*RCA	122 - 55	CD4093BF	*RCA	35 - 35	CD7217D	DTL	135 - 62
CD4012AE	*BELI	63 - 55	CD4025AU	*RCA	61 - 52	CD4045AH	*RCA	122 - 56	CD4093BF	*RCA	35 - 36	CD7224AC	DTL	136 - 37
			CD4025UBD	*RCA	61 - 53	CD4045AI	*RCA	122 - 57	CD4093BF	*RCA	35 - 37	CD7224AC	DTL	136 - 38
			CD4025UBF	*RCA	61 - 54	CD4045AJ	*RCA	122 - 58	CD4093BF	*RCA	35 - 38	CD7225AC	DTL	136 - 39
			CD4026AD	*RCA	137 - 9	CD4045AK	*RCA	122 - 59	CD4093BF	*RCA	35 - 39	CD7225AC	DTL	136 - 40
			CD4026AE	*RCA	137 - 10	CD4045AL	*RCA	122 - 60	CD4093BF	*RCA	35 - 40	CD7227AC		

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TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
CD40174BD	*RCA	35-76	DM54L00J	*NSC	84-47	DM54LS192W#mil	148-13	DM74LS154N	NSC	120-105	DM86L76N	NSC	145-42	
CD40174BE	*RCA	35-77	DM54L00W#mil	*NSC	94-48			DM74LS155N	NSC	119-26	DM86L93F	NSC	145-48	
CD40174BF	*RCA	35-78	DM54L02J	*NSC	89-88	DM54LS193J#mil	148-14	DM74LS156N	NSC	119-27	DM86L93J	NSC	145-49	
CD40174BM	*NSC	34-36	DM54L02W#mil	*NSC	89-89			DM74LS160AN	NSC	151-45	DM86L93N	NSC	145-50	
CD40175BC	*NSC	34-37	DM54L03J	*NSC	94-49	DM54LS193W#mil	148-15	DM74LS161AN	NSC	148-16	DM1800N	*NSC	69-5	
CD40175BD	*RCA	37-5	DM54L10J	*NSC	94-50			DM74LS162AN	NSC	151-46	DM1801N	*NSC	69-6	
CD40175BE	*RCA	37-6	DM54L10W#mil	*NSC	94-51	DM54LS196J#mil	148-79	DM74LS163AN	NSC	151-47	DM5400J	*NSC	99-37	
CD40175BF	*RCA	37-7	DM54L20J	*NSC	94-52			DM74LS174N	NSC	53-57	DM5400W	*NSC	99-38	
CD40175BH	*RCA	36-66	DM54L20W#mil	*NSC	94-53	DM54LS196W#mil	148-80	DM74LS175N	NSC	53-58	DM5401J	*NSC	99-39	
CD40175BM	*NSC	36-38	DM54L30J	*NSC	94-54			DM74LS190N	NSC	146-51	DM5401W	*NSC	99-40	
CD40181BD	*RCA	168-4	DM54L42AJ	*NSC	119-11	DM54LS197J#mil	148-81	DM74LS191N	NSC	146-52	DM5402J	*NSC	90-78	
CD40181BE	*RCA	168-5	DM54L42AW#mil	*NSC	120-100			DM74LS192N	NSC	148-17	DM5402W	*NSC	90-79	
CD40181BF	*RCA	168-12	DM54L51J	*NSC	83-18	DM54LS197W#mil	148-82	DM74LS193N	NSC	148-18	DM5403J	*NSC	99-41	
CD40181BH	*RCA	168-6	DM54L54J	*NSC	83-19			DM74LS196N	NSC	148-83	DM5408J	*NSC	77-88	
CD40182BD	*RCA	170-19	DM54L54W#mil	*NSC	113-71	DM54LS259J#mil	180-100	DM74LS197N	NSC	148-84	DM5408W	*NSC	77-89	
CD40182BE	*RCA	170-20	DM54L55J	*NSC	83-20			DM74LS259N	NSC	180-102	DM5409J	*NSC	77-90	
CD40182BF	*RCA	170-21	DM54L55W#mil	*NSC	113-72	DM54LS259W#mil	180-101	DM74LS283N	NSC	161-85	DM5409W	*NSC	77-91	
CD40192BCJ	NSC	136-7	DM54L71J	*NSC	49-90			DM74LS290N	NSC	149-2	DM5410J	*NSC	99-42	
CD40192BCN	NSC	136-8	DM54L71W#mil	*NSC	49-91	DM54LS283J#mil	161-82	DM74LS293N	NSC	149-3	DM5410W	*NSC	99-43	
CD40192BE	*RCA	130-42	DM54L72J	*NSC	40-68			DM74LS373N	NSC	179-99	DM5411J	*NSC	78-1	
CD40192BF	*RCA	130-43	DM54L72W#mil	*NSC	47-32	DM54LS283W#mil	161-83	DM74LS374N	NSC	180-40	DM5420J	*NSC	99-44	
CD40192BJ	*RCA	130-44	DM54L73J	*NSC	40-69			DM74LS390N	NSC	142-64	DM5420W	*NSC	99-45	
CD40192BJM	NSC	136-9	DM54L73W#mil	*NSC	47-33	DM54LS290J#mil	151-69	DM74LS393N	NSC	148-49	DM5423J	*NSC	90-80	
CD40192BMW	NSC	136-10	DM54L74J	*NSC	50-38			DM74S00N	NSC	99-30	DM5423W	*NSC	91-1	
CD40192CJ	NSC	133-13	DM54L74W#mil	*NSC	53-28	DM54LS290W#mil	151-70	DM74S03N	NSC	99-31	DM5425J	*NSC	91-2	
CD40192BCN	NSC	133-14	DM54L75AJ#mil	*NSC	179-27			DM74S10N	NSC	99-32	DM5425W	*NSC	91-3	
CD40193BD	*RCA	133-74	DM54L75AW#mil	*NSC	179-28	DM54LS293J#mil	148-90	DM74S11N	NSC	77-86	DM5427J	*NSC	91-4	
CD40193BE	*RCA	133-75	DM54L78J	*NSC	40-70			DM74S15N	NSC	77-87	DM5427W	*NSC	91-5	
CD40193BF	*RCA	133-76	DM54L78W#mil	*NSC	53-29	DM54LS293W#mil	149-1	DM74S20N	NSC	99-33	DM5430J	*NSC	99-46	
CD40193BJM	NSC	133-15	DM54L85J	*NSC	166-76			DM74S22N	NSC	99-34	DM5430W	*NSC	99-47	
CD40193BMW	NSC	133-16	DM54L85W#mil	*NSC	166-77	DM54LS373J#mil	179-97	DM74S40N	NSC	99-35	DM5432J	*NSC	87-87	
CDP1853CD	*RCA	116-33	DM54L86J	*NSC	111-17			DM74S64N	NSC	83-96	DM5432W	*NSC	87-88	
CDP1853CD#mil	*RCA	184-55	DM54L86W#mil	*NSC	111-18	DM54LS373W#mil	179-98	DM74S65N	NSC	83-97	DM5437J	*NSC	99-48	
CDP1853CE	*RCA	116-34	DM54L90J	*NSC	140-22			DM74S74N	NSC	51-59	DM5437W	*NSC	99-49	
CDP1853D	*RCA	184-56	DM54L90W#mil	*NSC	152-43	DM54LS374J#mil	180-38	DM74S86N	NSC	111-76	DM5438J	*NSC	99-50	
CDP1853E	*RCA	116-35	DM54L93J	*NSC	145-43			DM74S112N	NSC	42-105	DM5438W	*NSC	99-51	
CDP1853F	*RCA	184-57	DM54L93W#mil	*NSC	152-44	DM54LS374W#mil	180-39	DM74S113N	NSC	42-106	DM5440J	*NSC	99-52	
CDP1853G	*RCA	116-36	DM54L154AF	*NSC	118-43			DM74S114N	NSC	42-107	DM5440W	*NSC	99-53	
CDP1853H	*RCA	184-58	DM54L154AF#mil	*NSC	120-101	DM54LS390J#mil	142-62	DM74S135N	NSC	113-38	DM5441AJ	*NSC	119-28	
CDP1853I	*RCA	184-59						DM74S140N	NSC	99-36	DM5441AW	*NSC	119-29	
CDP1867E	*RCA	174-19	DM54L154AJ#mil	*NSC	120-102	DM54LS390W#mil	142-63	DM74S160N	NSC	151-87	DM5442J	*NSC	119-30	
CDP1868E	*RCA	174-18						DM74S161N	NSC	149-49	DM5442W	*NSC	119-31	
CDP1873CD	*RCA	116-56	DM54L192J	*NSC	140-24	DM54LS393J#mil	148-47	DM74S162N	NSC	151-88	DM5445J	*NSC	119-32	
CDP1873CE	*RCA	116-57	DM54L192J#mil	*NSC	145-17			DM74S163N	NSC	151-89	DM5445W	*NSC	119-33	
CM4000AD	*SOD	55-16				DM54LS393W#mil	148-48	DM74S174N	NSC	53-59	DM5450J	*NSC	83-98	
CM4000AE	*SOD	55-17	DM54L192W#mil	*NSC	140-25			DM74S175N	NSC	53-60	DM5450W	*NSC	83-99	
CM4001AD	*SOD	55-18				DM54S160J#mil	151-83	DM74S181N	NSC	169-79	DM5451J	*NSC	83-100	
CM4001AE	*SOD	55-19	DM54L193J	*NSC	145-18	DM54S160W#mil	151-84	DM74S182N	NSC	170-44	DM5451W	*NSC	83-101	
CM4002AD	*SOD	55-20	DM54L193J#mil	*NSC	145-19	DM54S162J#mil	151-85	DM74S196N	NSC	149-57	DM5453J	*NSC	83-102	
CM4002AE	*SOD	55-21				DM54S162W#mil	151-86	DM74S197N	NSC	149-58	DM5453W	*NSC	83-103	
CM4008AD	*SOD	159-91	DM54L193W#mil	*NSC	145-20	DM54S163J#mil	149-47	DM74S280N	NSC	173-19	DM5454J	*NSC	83-104	
CM4008AE	*SOD	159-100				DM54S163W#mil	149-48	DM74S283N	NSC	161-21	DM5454W	*NSC	83-105	
CM4011AD	*SOD	55-29	DM54LS77W#mil	*NSC	178-62	DM54S174J#mil	53-53	DM74S373N	NSC	179-54	DM5460J	*NSC	113-87	
CM4011AE	*SOD	55-30	DM54LS83AJ#mil	*NSC	161-80	DM54S174W#mil	53-54	DM74S374N	NSC	179-91	DM5460W	*NSC	113-88	
CM4012AD	*SOD	55-31				DM54S175J#mil	53-55	DM74S381N	NSC	169-77	DM5470J	*NSC	49-60	
CM4012AE	*SOD	55-32	DM54LS83AW#mil	*NSC	161-81	DM54S175W#mil	53-56	DM75L11D	NSC	50-40	DM5470W	*NSC	49-61	
CM4013AD	*SOD	34-21				DM54S181J#mil	169-78	DM75L11F	NSC	50-41	DM5472J	*NSC	49-62	
CM4013AE	*SOD	34-22	DM54LS85J#mil	*NSC	166-15	DM54S182J#mil	170-43	DM75L11J#mil	NSC	53-30	DM5472W	*NSC	49-63	
CM4017AD	*SOD	129-18	DM54LS85W#mil	*NSC	166-16	DM54S196J#mil	149-54	DM75L11N	NSC	50-42	DM5473J	*NSC	42-108	
CM4017AE	*SOD	129-19	DM54LS90J#mil	*NSC	152-14	DM54S196W#mil	149-55	DM75L11W#mil	NSC	53-31	DM5473W	*NSC	43-1	
CM4018AD	*SOD	129-24				DM54S197J#mil	149-56	DM75L12F	NSC	49-34	DM5474J	*NSC	51-60	
CM4018AE	*SOD	129-25	DM54LS90W#mil	*NSC	152-15	DM54S197W#mil	129-3	DM75L12J	NSC	49-35	DM5474W	*NSC	51-61	
CM4019AD	*SOD	55-6				DM54S280J#mil	173-17	DM75L12N	NSC	49-36	DM5475J	*NSC	177-47	
CM4019AE	*SOD	55-7	DM54LS92J#mil	*NSC	152-16	DM54S280W#mil	173-18	DM75L12W#mil	NSC	53-32	DM5475W	*NSC	177-48	
CM4020AD	*SOD	129-10	DM54LS92W#mil	*NSC	152-17	DM54S283J#mil	161-19	DM75L52F	NSC	144-16	DM5476J	*NSC	43-2	
CM4020AE	*SOD	129-11	DM54LS93J#mil	*NSC	152-18	DM54S283W#mil	161-20	DM75L52J	NSC	144-17	DM5476W	*NSC	43-3	
CM4022AD	*SOD	129-26	DM54LS93W#mil	*NSC	152-19	DM54S373J#mil	179-52	DM75L52N	NSC	144-18	DM5483J	*NSC	162-19	
CM4022AE	*SOD	129-27	DM54LS154F#mil	*NSC	120-103	DM54S373W#mil	179-53	DM75L52W#mil	NSC	152-38	DM5483W	*NSC	162-20	
CM4023AD	*SOD	55-33				DM54S381J#mil	169-76	DM75L54F	NSC	150-90	DM5485J#mil	*NSC	166-13	
CM4023AE	*SOD	55-34	DM54LS154J#mil	*NSC	120-104	DM74H00N	99-22	DM75L54J	NSC	150-91	DM5485W#mil	*NSC	166-14	
CM4024AD	*SOD	129-12				DM74H01J	99-23	DM75L54N	NSC	150-92	DM5486J	*NSC	111-77	
CM4024AE	*SOD	129-13	DM54LS155J#mil	*NSC	119-22	DM74H01N	99-24	DM75L54W#mil	NSC	150-93	DM5486W	*NSC	111-78	
CM4025AD	*SOD	55-22				DM74H08N	77-83	DM75L60J#mil	NSC	145-22	DM5490AJ#mil	*NSC	152-22	
CM4025AE	*SOD	55-23	DM54LS155W#mil	*NSC	119-23	DM74H09N	99-25	DM75L60W#mil	NSC	145-23	DM5490J	*NSC	143-61	
CM4026AD	*SOD	129-20				DM74H11N	77-84	DM75L63J#mil	NSC	145-24	DM5490W	*NSC	143-62	
CM4026AE	*SOD	129-21	DM54LS156J#mil	*NSC	119-24	DM74H20N	99-26	DM75L63W#mil	NSC	145-25	DM5492AJ#mil	*NSC	152-23	
CM4027AD	*SOD	34-2				DM74H21N	99-27	DM76L13J#mil	NSC	53-33	DM5492AW#mil	*NSC	152-24	
CM4027AE	*SOD	34-3	DM54LS156W											

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DM7402N	◆NSC	91 - 6	DM8553W	NSC	181 - 3	DM54191W#mil	◆NSC	146 - 54	ED09	STX	184 - 45	F10575FM	◆FSC	177 - 7
DM7403N	◆NSC	99 - 62	DM8554J	NSC	150 - 99	DM54192W	◆NSC	142 - 13	ED11	STX	184 - 46	F10579DM	◆FSC	170 - 35
DM7408N	◆NSC	78 - 2	DM8554N	NSC	150 - 100	DM54193J#mil	◆NSC	146 - 55	ED15	STX	184 - 47	F10579DM	◆FSC	170 - 36
DM7409N	◆NSC	78 - 3	DM8554W	NSC	150 - 101	DM54193W	◆NSC	147 - 84	ESM381	THEF	182 - 2	F10580DM	◆FSC	160 - 28
DM7410N	◆NSC	99 - 63	DM8555N	NSC	142 - 97	DM54193W#mil	◆NSC	146 - 56	ESM382	THEF	183 - 33	F10580FM	◆FSC	160 - 29
DM7411N	◆NSC	78 - 4	DM8556N	◆NSC	149 - 31	DM54196J	◆NSC	142 - 98	ESM383	THEF	66 - 90	F10581DM	◆FSC	168 - 35
DM7420N	◆NSC	99 - 64	DM8556J	◆NSC	142 - 11	DM54197J	NSC	142 - 99	F11C01FC	FSC	73 - 15	F10581FM	◆FSC	168 - 36
DM7423N	NSC	91 - 7	DM8560N	◆NSC	142 - 12	DM54197J#mil	NSC	149 - 32	F11C05DC	FSC	157 - 74	F10610DM	◆FSC	72 - 22
DM7425N	NSC	91 - 8	DM8563J	◆NSC	147 - 82	DM54259J#mil	NSC	180 - 41	F11C05DM	FSC	157 - 73	F10610FM	◆FSC	72 - 23
DM7427N	NSC	91 - 9	DM8563N	◆NSC	147 - 83	DM54259W#mil	NSC	180 - 42	F11C06DC	FSC	39 - 70	F10611DM	◆FSC	73 - 78
DM7430N	◆NSC	99 - 65	DM8601J	◆NSC	125 - 19	DM74107J	◆NSC	43 - 7	F11C24DC	FSC	154 - 81	F10611FM	◆FSC	73 - 79
DM7432N	NSC	87 - 89	DM8601N	◆NSC	125 - 20	DM74107N	◆NSC	43 - 8	F11C24DM	FSC	154 - 82	F10631DM	◆FSC	39 - 21
DM7437N	NSC	99 - 66	DM8601W	◆NSC	125 - 21	DM74121J	NSC	127 - 17	F11C58DC	FSC	154 - 83	F10631FM	◆FSC	39 - 22
DM7438N	NSC	99 - 67	DM8602J	◆NSC	125 - 22	DM74121N	NSC	127 - 18	F11C70DC	FSC	39 - 71	F95002DC	FSC	73 - 46
DM7440N	◆NSC	99 - 68	DM8602W	NSC	125 - 23	DM74123N	NSC	124 - 68	F11C70DM	FSC	39 - 72	F95003DC	FSC	73 - 47
DM7441AN	◆NSC	119 - 34	DM8602W	NSC	125 - 24	DM74141J	◆NSC	119 - 46	F11C83DC	FSC	183 - 98	F95004DC	FSC	74 - 32
DM7442N	◆NSC	119 - 35	DM8613N	NSC	53 - 63	DM74141N	◆NSC	119 - 47	F11C90DC	FSC	183 - 99	F95010DC	◆FSC	139 - 13
DM7445N	◆NSC	119 - 36	DM8613N	◆NSC	110 - 65	DM74141W	◆NSC	119 - 48	F11C90DM	FSC	183 - 100	F95016DC	◆FSC	139 - 25
DM7450N	◆NSC	83 - 106	DM8811N	◆NSC	110 - 66	DM74145J	NSC	119 - 49	F11C91DC	FSC	183 - 101	F95029DC	FSC	39 - 51
DM7451N	◆NSC	83 - 107	DM8819J	◆NSC	78 - 8	DM74145N	NSC	119 - 50	F11C91DM	FSC	183 - 102	F95101DC	FSC	73 - 48
DM7453N	◆NSC	83 - 108	DM8819N	◆NSC	78 - 9	DM74145W	NSC	119 - 51	F10010DM	◆FSC	139 - 11	F95102DC	FSC	74 - 33
DM7454N	◆NSC	83 - 109	DM8819W	◆NSC	78 - 10	DM74147J	NSC	184 - 63	F10010FM	◆FSC	139 - 12	F95103DC	FSC	72 - 39
DM7460N	◆NSC	113 - 89	DM8853J	NSC	125 - 71	DM74147N	NSC	184 - 64	F10016DC	◆FSC	139 - 22	F95105DC	FSC	73 - 49
DM7470N	◆NSC	49 - 64	DM8853N	NSC	125 - 72	DM74147W	NSC	184 - 65	F10016DM	◆FSC	139 - 23	F95106DC	FSC	74 - 34
DM7472N	◆NSC	49 - 65	DM8853W	NSC	125 - 73	DM74148J	NSC	184 - 66	F10016FM	◆FSC	139 - 24	F95107DC	FSC	74 - 78
DM7473N	◆NSC	43 - 4	DM8875AJ, BJ	NSC	163 - 46	DM74148N	NSC	184 - 67	F10100DC	◆FSC	74 - 44	F95109DC	FSC	73 - 50
DM7474N	◆NSC	51 - 62	DM8875AN, BN	NSC	163 - 47	DM74148W	◆NSC	184 - 68	F10101DC	◆FSC	73 - 16	F95110DC	FSC	72 - 40
DM7475N	◆NSC	177 - 49	DM8898N	NSC	183 - 25	DM74154F	◆NSC	120 - 77	F10102DC	◆FSC	74 - 1	F95111DC	FSC	74 - 35
DM7476N	◆NSC	43 - 5	DM8899N	NSC	183 - 26	DM74154J	◆NSC	120 - 78	F10103DC	◆FSC	74 - 2	F95130DC	◆FSC	176 - 84
DM7483N	◆NSC	162 - 21	DM9002CJ	NSC	93 - 88	DM74154N	◆NSC	120 - 79	F10104DC	FSC	71 - 106	F95231DC	◆FSC	39 - 89
DM7485N	◆NSC	166 - 24	DM9002CN	NSC	93 - 89	DM74155N	NSC	119 - 52	F10105DC	FSC	73 - 17	F100101DC	◆FSC	71 - 57
DM7486N	◆NSC	111 - 79	DM9003CJ	NSC	93 - 90	DM74156N	NSC	119 - 53	F10106DC	FSC	74 - 3	F100101FC	◆FSC	71 - 58
DM7490AN	◆NSC	152 - 27	DM9003CN	NSC	93 - 91	DM74160AN	NSC	151 - 62	F10107DC	FSC	74 - 71	F100102DC	◆FSC	71 - 59
DM7490N	◆NSC	143 - 63	DM9004CJ	NSC	93 - 92	DM74160N	NSC	142 - 65	F10109DC	◆FSC	73 - 18	F100102FC	◆FSC	71 - 60
DM7492AN	◆NSC	152 - 28	DM9004CN	NSC	93 - 93	DM74161AN	NSC	148 - 59	F10110DC	◆FSC	72 - 25	F100107DC	◆FSC	71 - 92
DM7492N	◆NSC	152 - 78	DM9005CJ	NSC	83 - 5	DM74161N	NSC	148 - 60	F10111DC	◆FSC	74 - 4	F100107FC	◆FSC	71 - 93
DM7493AN	◆NSC	152 - 29	DM9005CN	NSC	83 - 6	DM74162AN	NSC	151 - 63	F10113DC	◆FSC	74 - 55	F100117DC	◆FSC	71 - 30
DM7493N	◆NSC	152 - 67	DM9006CJ	NSC	113 - 66	DM74162N	NSC	142 - 66	F10117DC	◆FSC	72 - 73	F100117FC	◆FSC	71 - 31
DM7511J	NSC	51 - 63	DM9006CN	NSC	113 - 67	DM74163AN	NSC	151 - 64	F10118DC	◆FSC	72 - 57	F100118DC	◆FSC	72 - 83
DM7511N	◆NSC	51 - 64	DM9008CJ	NSC	83 - 7	DM74163N	NSC	148 - 61	F10119DC	◆FSC	72 - 58	F100118FC	◆FSC	72 - 84
DM7511W	◆NSC	51 - 65	DM9008CN	NSC	83 - 8	DM74174N	NSC	53 - 67	F10121DC	◆FSC	72 - 74	F100130DC	◆FSC	176 - 45
DM7512J	◆NSC	49 - 40	DM9009CJ	NSC	93 - 94	DM74175N	NSC	53 - 68	F10130DC	◆FSC	176 - 81	F100130FC	◆FSC	176 - 46
DM7512N	◆NSC	49 - 41	DM9009CN	NSC	93 - 95	DM74176J	NSC	149 - 15	F10131DC	◆FSC	39 - 73	F100131DC	◆FSC	39 - 25
DM7512W	◆NSC	49 - 42	DM9012CJ	NSC	93 - 96	DM74176N	NSC	149 - 16	F10133DC	◆FSC	176 - 88	F100131FC	◆FSC	39 - 26
DM7552J	◆NSC	144 - 22	DM9012CN	NSC	93 - 97	DM74176W	NSC	149 - 17	F10135DC	◆FSC	39 - 46	F100150DC	◆FSC	176 - 47
DM7552W	◆NSC	144 - 23	DM9016CJ	NSC	115 - 27	DM74177J	NSC	143 - 44	F10136DC	◆FSC	139 - 45	F100150FC	◆FSC	176 - 48
DM7553J	◆NSC	180 - 108	DM9016CN	NSC	115 - 27	DM74177N	NSC	143 - 45	F10137DC	◆FSC	139 - 33	F100151DC	◆FSC	39 - 23
DM7553W	◆NSC	180 - 109	DM9093N	NSC	38 - 9	DM74177W	NSC	143 - 46	F10153DC	◆FSC	176 - 89	F100151FC	◆FSC	39 - 24
DM7554J	◆NSC	150 - 97	DM9094N	NSC	38 - 10	DM74180J	NSC	173 - 44	F10160DC	◆FSC	172 - 41	F100155DC	◆FSC	176 - 64
DM7554W	◆NSC	150 - 98	DM9097N	NSC	38 - 11	DM74180N	NSC	173 - 45	F10166DC	◆FSC	165 - 77	F100155FC	◆FSC	176 - 63
DM7555J#mil	◆NSC	151 - 54	DM9099N	NSC	38 - 12	DM74180W	NSC	173 - 46	F10168DC	◆FSC	176 - 104	F100156DC	◆FSC	184 - 48
DM7555N	◆NSC	142 - 96	DM9301J	NSC	119 - 40	DM74181J	NSC	169 - 30	F10170DC	◆FSC	172 - 53	F100156FC	◆FSC	184 - 49
DM7555W#mil	◆NSC	151 - 55	DM9301N	NSC	119 - 41	DM74181N	NSC	169 - 31	F10175DC	◆FSC	177 - 5	F100160DC	◆FSC	172 - 33
DM7556J#mil	◆NSC	148 - 50	DM9301W	NSC	116 - 21	DM74184AN	NSC	183 - 31	F10179DC	◆FSC	170 - 34	F100160FC	◆FSC	172 - 34
DM7556N	◆NSC	149 - 30	DM9310J#mil	NSC	151 - 57	DM74185AN	NSC	183 - 32	F10180DC	◆FSC	160 - 27	F100166DC	◆FSC	165 - 72
DM7556W#mil	◆NSC	148 - 51	DM9310W#mil	NSC	151 - 58	DM74190J	NSC	141 - 30	F10181DC	◆FSC	168 - 34	F100166FC	◆FSC	165 - 73
DM7560J	◆NSC	142 - 9	DM9316J#mil	NSC	148 - 53	DM74190N	NSC	141 - 31	F10210DC	◆FSC	72 - 26	F100170DC	◆FSC	117 - 73
DM7560W	◆NSC	142 - 10	DM9316W#mil	NSC	148 - 54	DM74190W	NSC	141 - 32	F10211DC	◆FSC	74 - 5	F100170FC	◆FSC	117 - 74
DM7563J	◆NSC	147 - 80	DM9334J	NSC	180 - 69	DM74191J	NSC	146 - 57	F10231DC	◆FSC	39 - 74	F100179DC	◆FSC	170 - 29
DM7563W	◆NSC	147 - 81	DM9334W	NSC	180 - 70	DM74191N	NSC	146 - 58	F10232DC	◆FSC	74 - 42	F100179FC	◆FSC	170 - 30
DM7613J#mil	◆NSC	53 - 61	DM9601J	◆NSC	125 - 5	DM74191W	NSC	146 - 59	F10500DM	◆FSC	74 - 43	F100180DC	◆FSC	160 - 9
DM7613W#mil	◆NSC	53 - 62	DM9601N	◆NSC	125 - 6	DM74192J	NSC	142 - 14	F10501DM	◆FSC	72 - 97	F100180FC	◆FSC	160 - 10
DM7819J	◆NSC	78 - 5	DM9601W	◆NSC	125 - 7	DM74192N	NSC	142 - 15	F10501FM	◆FSC	72 - 98	F100181DC	◆FSC	168 - 14
DM7819N	◆NSC	78 - 6	DM9602J	◆NSC	125 - 8	DM74193J	NSC	147 - 85	F10502DM	◆FSC	73 - 70	F100181FC	◆FSC	168 - 15
DM7819W	◆NSC	78 - 7	DM9602N	◆NSC	125 - 9	DM74193N	NSC	147 - 86	F10502FM	◆FSC	73 - 71	F100182DC	◆FSC	160 - 13
DM7853J	◆NSC	125 - 69	DM9602W	◆NSC	125 - 10	DM74196N	NSC	142 - 100	F10503DM	◆FSC	73 - 72	F100182FC	◆FSC	160 - 14
DM7853W	◆NSC	125 - 70	DM10101J	NSC	73 - 51	DM74197N	NSC	142 - 101	F10503FM	◆FSC	73 - 73	F100183DC	◆FSC	163 - 97
DM7875AD, BD	◆NSC	163 - 41	DM10102J	NSC	74 - 45	DM74259J	NSC	180 - 43	F10504DM	◆FSC	71 - 100	F100183FC	◆FSC	163 - 98
DM7875AW#mil	◆NSC	163 - 42	DM10105J	NSC	73 - 52	DN811	MATJ	138 - 86	F10504FM	◆FSC	71 - 101	FCH101	PHIN	67 - 93
DM7875AW#mil	◆NSC	163 - 43	DM10105J	NSC	73 - 53	DN819								

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FJJ251-7492	PHIN	144 - 91	GXB10105D	PHIN	71 - 40	GXB10162P	MULB	117 - 72	H210B1	SGAI	38 - 51
FJJ261-74107	PHIN	43 - 12		RTCF			RTCF		H211B1	SGAI	38 - 52
FJK101-74121	PHIN	125 - 74	GXB10105P	PHIN	71 - 41	GXB10165	PHIN	184 - 39	H222B1	SGAI	69 - 84
FJY101-7460	PHIN	113 - 90		RTCF			RTCF		H224B1	SGAI	69 - 85
FZH101	VALG	69 - 64	GXB10106	MULB	73 - 67	GXB10170	RTCF	172 - 37	H227B1	SGAI	154 - 69
FZH101A	SGIEG	69 - 65		PHIN		GXB10171D	MULB	117 - 65	H256B1	SGAI	138 - 80
FZH105A	SGIEG	74 - 90	GXB10106D	PHIN	71 - 69		PHIN		H257B1	SGAI	138 - 67
FZH111	VALG	69 - 66		RTCF		GXB10171P	MULB	117 - 66	H258B1	SGAI	117 - 62
FZH111A	SGIEG	69 - 67	GXB10106P	PHIN	71 - 70		PHIN		H629B1	SGAI	182 - 77
FZH115B	SGIEG	69 - 67		RTCF		GXB10172	RTCF	116 - 12	H632B1	SGAI	182 - 78
FZH121	SGIEG	69 - 68	GXB10107	MULB	74 - 62		RTCF		HAG20011	FSC	67 - 63
	VALG			PHIN		GXB10172D	MULB	117 - 67	HAG20019	FSC	67 - 61
FZH125	SGIEG	69 - 69	GXB10107D	PHIN	71 - 86		PHIN		HAG20021	FSC	67 - 57
FZH131	SGIEG	69 - 70		RTCF		GXB10172P	MULB	117 - 68	HAG20029	FSC	67 - 58
	VALG		GXB10107P	PHIN	71 - 87		PHIN		HBC4000AD	SGAI	60 - 33
FZH135	SGIEG	69 - 71		RTCF		GXB10175	MULB	176 - 66	HBC4000AF	SGAI	60 - 34
FZH141	SGIEG	69 - 72	GXB10108	PHIN	72 - 10		PHIN		HBC4000AK	SGAI	60 - 35
	VALG			RTCF		GXB10175D	MULB	176 - 51	HBC4001AD	SGAI	60 - 36
FZH145	SGIEG	69 - 73	GXB10108D	PHIN	71 - 1		RTCF		HBC4001AF	SGAI	60 - 37
FZH151	SGIEG	66 - 80		RTCF		GXB10175P	PHIN	176 - 52	HBC4001AK	SGAI	60 - 38
	VALG		GXB10108P	PHIN	71 - 2		RTCF		HBC4002AD	SGAI	60 - 39
FZH155	SGIEG	66 - 81		RTCF		GXB10176	MULB	39 - 60	HBC4002AF	SGAI	60 - 40
FZH171	SGIEG	55 - 24	GXB10109	MULB	72 - 95		PHIN		HBC4002AK	SGAI	60 - 41
	VALG			PHIN		GXB10176D	PHIN	39 - 11	HBC4008AD	SGAI	159 - 92
FZH175	SGIEG	55 - 25	GXB10109D	PHIN	71 - 42		RTCF		HBC4008AF	SGAI	159 - 93
FZH191	SGIEG	69 - 74		RTCF		GXB10176P	PHIN	39 - 12	HBC4008AK	SGAI	159 - 94
	VALG		GXB10109P	PHIN	71 - 43		RTCF		HBC4011AD	SGAI	63 - 58
FZH195	SGIEG	69 - 75		RTCF		GXB10179	MULB	170 - 33	HBC4011AF	SGAI	63 - 59
FZH201	SGIEG	69 - 76	GXB10110	MULB	72 - 18		PHIN		HBC4011AK	SGAI	63 - 60
	VALG			PHIN		GXB10179P	PHIN	170 - 28	HBC4012AD	SGAI	63 - 61
FZH205	SGIEG	69 - 77	GXB10111	MULB	73 - 68	GXB10180	MULB	160 - 20	HBC4012AF	SGAI	63 - 62
FZH211	SGIEG	55 - 26		RTCF			PHIN		HBC4012AK	SGAI	63 - 63
	VALG		GXB10112	PHIN	72 - 96	GXB10180D	PHIN	160 - 17	HBC4013AD	SGAI	35 - 57
FZH215B	SGIEG	69 - 98		RTCF			RTCF		HBC4013AF	SGAI	35 - 58
FZH231	SGIEG	55 - 27	GXB10112D	PHIN	71 - 46	GXB10180P	PHIN	160 - 18	HBC4013AK	SGAI	35 - 59
	VALG			RTCF			RTCF		HBC4017AD	SGAI	137 - 12
FZH235	SGIEG	55 - 28	GXB10112P	PHIN	71 - 47	GXB10181	MULB	168 - 32	HBC4017AF	SGAI	137 - 13
FZH251	SGIEG	66 - 74		RTCF			PHIN		HBC4017AK	SGAI	137 - 14
	VALG		GXB10113	MULB	74 - 50	GXB10181D	PHIN	168 - 24	HBC4018AD	SGAI	137 - 15
FZH255B	SGIEG	66 - 79		RTCF			RTCF		HBC4018AF	SGAI	137 - 16
FZH261	SGIEG	69 - 99	GXB10113D	PHIN	71 - 79	GXB10181P	PHIN	168 - 25	HBC4018AK	SGAI	137 - 17
	VALG			RTCF			RTCF		HBC4020AD	SGAI	133 - 1
FZH265B	SGIEG	69 - 100	GXB10113P	PHIN	71 - 80	GXB10189D	RTCF	71 - 94	HBC4020AF	SGAI	133 - 2
FZH271	SGIEG	70 - 66		RTCF		GXB10189P	RTCF	71 - 95	HBC4020AK	SGAI	133 - 3
	VALG		GXB10117	MULB	72 - 87	GXB10210	MULB	72 - 19	HBC4022AD	SGAI	137 - 18
FZH275	SGIEG	70 - 67		PHIN			PHIN		HBC4022AF	SGAI	137 - 19
FZH281	SGIEG	67 - 53	GXB10117D	PHIN	71 - 32	GXB10211	MULB	73 - 69	HBC4022AK	SGAI	137 - 20
	VALG			RTCF			PHIN		HBC4023AD	SGAI	63 - 64
FZH285B	SGIEG	67 - 54	GXB10117P	PHIN	71 - 33	GXB10231	MULB	39 - 61	HBC4023AF	SGAI	63 - 65
FZH291	SGIEG	66 - 110		RTCF			PHIN		HBC4023AK	SGAI	63 - 66
	VALG		GXB10118	MULB	72 - 45	GXB10231D	PHIN	39 - 13	HBC4024AD	SGAI	133 - 4
FZH295B	SGIEG	67 - 1		RTCF			RTCF		HBC4024AF	SGAI	133 - 5
FZH301	SGIEG	67 - 55	GXB10118D	PHIN	71 - 26	GXB10231P	PHIN	39 - 14	HBC4024AK	SGAI	133 - 6
FZH305	SGIEG	67 - 56		RTCF			RTCF		HBC4025AD	SGAI	60 - 42
FZJ101	SGIEG	38 - 38	GXB10118P	PHIN	71 - 27	GZF1201P	MULB	136 - 79	HBC4025AF	SGAI	60 - 43
	VALG			RTCF			PHIN		HBC4025AK	SGAI	60 - 44
FZJ105	SGIEG	38 - 39	GXB10119	MULB	72 - 46	GZF1202P	MULB	184 - 81	HBC4026AD	SGAI	137 - 21
FZJ111	SGIEG	38 - 40		PHIN			PHIN		HBC4026AF	SGAI	137 - 22
	VALG		GXB10119D	RTCF	71 - 28	H102D1	SGAI	70 - 51	HBC4026AK	SGAI	137 - 23
FZJ115	SGIEG	38 - 41	GXB10119P	RTCF	71 - 29	H102D2	SGAI	70 - 52	HBC4027AD	SGAI	34 - 42
FZJ121	SGIEG	38 - 36	GXB10121	MULB	72 - 88	H102D6	SGAI	70 - 53	HBC4027AF	SGAI	34 - 43
	VALG			PHIN		H103D1	SGAI	70 - 54	HBC4027AK	SGAI	34 - 44
FZJ125	SGIEG	38 - 37	GXB10121D	RTCF	71 - 34	H103D2	SGAI	70 - 55	HBC4028AD	SGAI	117 - 6
FZJ131	SGIEG	38 - 109	GXB10121P	RTCF	71 - 35	H103D6	SGAI	70 - 56	HBC4028AF	SGAI	117 - 7
	VALG		GXB10123D	PHIN	71 - 77	H104D1	SGAI	70 - 57	HBC4028AK	SGAI	117 - 8
FZJ135	SGIEG	39 - 90	GXB10123P	PHIN	71 - 78	H104D2	SGAI	70 - 58	HBC4029AD	SGAI	138 - 16
FZJ141	VALG	138 - 56	GXB10130	MULB	176 - 65	H104D6	SGAI	70 - 59	HBC4029AF	SGAI	138 - 17
FZJ141A	SGIEG	138 - 57		PHIN		H105D1	SGAI	66 - 82	HBC4029AK	SGAI	138 - 18
FZJ145A	SGIEG	138 - 58	GXB10130D	RTCF	176 - 49	H105D2	SGAI	66 - 83	HBC4030AD	SGAI	65 - 35
FZJ151	VALG	138 - 72	GXB10130P	RTCF	176 - 50	H105D6	SGAI	66 - 84	HBC4030AF	SGAI	65 - 36
FZJ151A	SGIEG	138 - 73	GXB10131	MULB	39 - 59	H109D1	SGAI	66 - 75	HBC4030AK	SGAI	65 - 37
FZJ155A	SGIEG	138 - 74		PHIN		H109D2	SGAI	66 - 76	HBC4032AD	SGAI	159 - 22
FZK101	SGIEG	123 - 6	GXB10131D	RTCF	39 - 9	H109D6	SGAI	66 - 77	HBC4032AF	SGAI	159 - 23
	VALG		GXB10131P	RTCF	39 - 10	H110D1	SGAI	38 - 42	HBC4032AK	SGAI	159 - 24
FZL105	SGIEG	123 - 7	GXB10133	MULB	176 - 80	H110D2	SGAI	38 - 43	HBC4033AD	SGAI	129 - 95
	VALG			PHIN		H110D6	SGAI	38 - 44	HBC4033AF	SGAI	129 - 96
G74SC373D	GTE	175 - 89	GXB10133D	PHIN	176 - 57	H111D1	SGAI	38 - 45	HBC4033AK	SGAI	129 - 97
G74SC373P	GTE	175 - 90		RTCF		H111D2	SGAI	38 - 46	HBC4037AD	SGAI	56 - 74
G74SC374D	GTE	36 - 14	GXB10135	MULB	39 - 41	H111D6	SGAI	38 - 47	HBC4037AF	SGAI	56 - 75
G74SC374P	GTE	36 - 15		PHIN		H112D1	SGAI	74 - 93	HBC4037AK	SGAI	56 - 76
GXB10100	MULB	73 - 65	GXB10135D	SGAI	39 - 1	H112D6	SGAI	74 - 94	HBC4038AD	SGAI	59 - 25
	PHIN			RTCF		H115D1	SGAI	74 - 95	HBC4038AF	SGAI	59 - 26
GXB10100D	PHIN	71 - 65		PHIN		H115D6	SGAI	74 - 96	HBC4038AK	SGAI	59 - 27
	RTCF		GXB10135P	PHIN	39 - 2	H117D1	SGAI	154 - 84	HBC4040AD	SGAI	132 - 68
GXB10100P	PHIN	71 - 66		RTCF		H117D6	SGAI	154 - 85	HBC4040AF	SGAI	132 - 69
	RTCF		GXB10136	MULB	139 - 41	H118D1	SGAI	74 - 97	HBC4040AK	SGAI	132 - 70
GXB10101	MULB	72 - 92		PHIN		H118D6	SGAI	74 - 98	HBC4042AD	SGAI	175 - 3
	PHIN		GXB10136D	RTCF	139 - 7	H119D1	SGAI	74 - 99	HBC4042AF	SGAI	175 - 4
	RTCF			PHIN		H119D6	SGAI	74 - 100	HBC4042AK	SGAI	175 - 5
GXB10101D	PHIN	71 - 38		RTCF		H122D1	SGAI	69 - 78	HBC4043AD	SGAI	175 - 19
	RTCF		GXB10136P	PHIN	139 - 8	H122D6	SGAI	69 - 79	HBC4043AF	SGAI	175 - 20
GXB10101P	PHIN	71 - 39		RTCF		H124D1	SGAI	69 - 81	HBC4044AD	SGAI	175 - 21
	RTCF		GXB10137	MULB	139 - 29	H124D2	SGAI	69 - 82	HBC4044AF	SGAI	175 - 22
GXB10102	MULB	73 - 66		PHIN		H124D6	SGAI	69 - 83	HBC4044AK	SGAI	175 - 23
	PHIN		GXB10137D	RTCF	139 - 3	H156D1	SGAI	138 - 77	HBC4045AD	SGAI	122 - 49
	RTCF			PHIN		H156D2	SGAI	138 - 78	HBC4045AF	SGAI	122 - 50
GXB10102D	PHIN	71 - 67		RTCF		H157D1	SGAI	138 - 79	HBC4045AK	SGAI	122 - 51
	RTCF		GXB10137P	PHIN	139 - 4	H157D2	SGAI	138 - 65	HBC4047AK	SGAI	154 - 32
GXB10102P	PHIN	71 - 68		RTCF		H157D6	SGAI	138 - 66	HBC4048AD	SGAI	182 - 105
	RTCF		GXB10160	MULB	172 - 38	H158D1	SGAI	117 - 59	HBC4048AF	SGAI	182 - 106
GXB10103</											

3. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
HCC4027BD	SGAI	34 - 71	HCC4518BK	SGAI	130 - 9	HCF4073BE	SGAI	55 - 76	HD74ALS175P	HITJ	40 - 8	HD74LS190P	HITJ	151 - 10
HCC4027BF	SGAI	34 - 72	HCC4520BD	SGAI	132 - 87	HCF4073BF	SGAI	55 - 77	HD74LS00	HITJ	99 - 85	HD74LS191	HITJ	145 - 67
HCC4027BK	SGAI	34 - 73	HCC4520BF	SGAI	132 - 88	HCF4075BE	SGAI	57 - 106	HD74LS00P	HITJ	99 - 86	HD74LS191P	HITJ	145 - 68
HCC4028BD	SGAI	117 - 11	HCC4520BK	SGAI	132 - 89	HCF4075BF	SGAI	58 - 1	HD74LS01	HITJ	99 - 87	HD74LS192	HITJ	151 - 23
HCC4028BF	SGAI	117 - 12	HCC4527BD	SGAI	156 - 34	HCF4076BE	SGAI	35 - 53	HD74LS01P	HITJ	99 - 88	HD74LS192P	HITJ	151 - 24
HCC4028BK	SGAI	117 - 13	HCC4527BF	SGAI	156 - 35	HCF4076BF	SGAI	35 - 54	HD74LS02	HITJ	91 - 11	HD74LS193	HITJ	146 - 64
HCC4029BD	SGAI	130 - 89	HCC4527BK	SGAI	156 - 36	HCF4077BE	SGAI	65 - 93	HD74LS02P	HITJ	91 - 12	HD74LS193P	HITJ	146 - 65
HCC4029BF	SGAI	130 - 90	HCC4555BD	SGAI	116 - 60	HCF4077BF	SGAI	65 - 94	HD74LS03	HITJ	99 - 89	HD74LS221	HITJ	155 - 77
HCC4029BK	SGAI	130 - 91	HCC4555BF	SGAI	116 - 61	HCF4078BE	SGAI	60 - 56	HD74LS03P	HITJ	99 - 90	HD74LS221P	HITJ	155 - 78
HCC4030BD	SGAI	65 - 73	HCC4555BK	SGAI	116 - 62	HCF4078BF	SGAI	60 - 57	HD74LS04	HITJ	115 - 34	HD74LS259	HITJ	181 - 21
HCC4030BF	SGAI	65 - 74	HCC4556BD	SGAI	116 - 63	HCF4081BE	SGAI	55 - 78	HD74LS04P	HITJ	115 - 35	HD74LS259P	HITJ	180 - 58
HCC4030BK	SGAI	65 - 75	HCC4556BF	SGAI	116 - 64	HCF4081BF	SGAI	55 - 79	HD74LS05	HITJ	115 - 36	HD74LS266	HITJ	115 - 10
HCC4032BD	SGAI	159 - 40	HCC4556BK	SGAI	116 - 65	HCF4082BE	SGAI	55 - 80	HD74LS05P	HITJ	115 - 37	HD74LS266P	HITJ	115 - 11
HCC4032BF	SGAI	159 - 41	HCC40101BD	SGAI	172 - 10	HCF4082BF	SGAI	55 - 81	HD74LS08	HITJ	78 - 15	HD74LS279	HITJ	178 - 54
HCC4032BK	SGAI	159 - 42	HCC40101BF	SGAI	172 - 11	HCF4085BE	SGAI	57 - 19	HD74LS08P	HITJ	78 - 16	HD74LS279P	HITJ	178 - 55
HCC4033BD	SGAI	137 - 51	HCC40101BK	SGAI	172 - 12	HCF4085BF	SGAI	57 - 20	HD74LS09	HITJ	78 - 17	HD74LS280	HITJ	173 - 26
HCC4033BF	SGAI	137 - 52	HCC40102BD	SGAI	129 - 61	HCF4086BE	SGAI	57 - 21	HD74LS09P	HITJ	78 - 18	HD74LS280P	HITJ	173 - 27
HCC4033BK	SGAI	137 - 53	HCC40102BF	SGAI	129 - 62	HCF4086BF	SGAI	57 - 22	HD74LS10	HITJ	99 - 91	HD74LS283	HITJ	161 - 40
HCC4038BD	SGAI	159 - 43	HCC40103BD	SGAI	129 - 63	HCF4089BE	SGAI	156 - 51	HD74LS10P	HITJ	99 - 92	HD74LS283P	HITJ	161 - 41
HCC4038BF	SGAI	159 - 44	HCC40103BF	SGAI	131 - 69	HCF4089BF	SGAI	156 - 52	HD74LS11	HITJ	78 - 19	HD74LS290	HITJ	151 - 7
HCC4038BK	SGAI	159 - 45	HCC40103BK	SGAI	131 - 70	HCF4095BE	SGAI	34 - 53	HD74LS11P	HITJ	78 - 20	HD74LS290P	HITJ	151 - 8
HCC4040BD	SGAI	134 - 65	HCC40103BK	SGAI	131 - 71	HCF4095BF	SGAI	34 - 54	HD74LS12	HITJ	99 - 93	HD74LS293	HITJ	145 - 51
HCC4040BF	SGAI	134 - 66	HCC40160BD	SGAI	130 - 58	HCF4096BE	SGAI	34 - 55	HD74LS12P	HITJ	99 - 94	HD74LS293P	HITJ	145 - 52
HCC4040BK	SGAI	134 - 67	HCC40160BF	SGAI	130 - 59	HCF4096BF	SGAI	34 - 56	HD74LS14	HITJ	115 - 24	HD74LS375	HITJ	178 - 60
HCC4042BD	SGAI	174 - 77	HCC40160BK	SGAI	130 - 60	HCF4098BE	SGAI	122 - 13	HD74LS14P	HITJ	115 - 25	HD74LS375P	HITJ	178 - 61
HCC4042BF	SGAI	174 - 78	HCC40161BD	SGAI	133 - 93	HCF4098BF	SGAI	122 - 14	HD74LS15	HITJ	78 - 21	HD74LS386	HITJ	111 - 84
HCC4042BK	SGAI	174 - 79	HCC40161BF	SGAI	133 - 94	HCF4099BE	SGAI	175 - 109	HD74LS15P	HITJ	78 - 22	HD74LS386P	HITJ	112 - 1
HCC4043BD	SGAI	174 - 88	HCC40161BK	SGAI	133 - 95	HCF4099BF	SGAI	175 - 110	HD74LS20	HITJ	99 - 95	HD74LS390	HITJ	152 - 45
HCC4043BF	SGAI	174 - 89	HCC40162BD	SGAI	130 - 61	HCF4508BE	SGAI	174 - 32	HD74LS20P	HITJ	99 - 96	HD74LS390P	HITJ	152 - 46
HCC4043BK	SGAI	174 - 90	HCC40162BF	SGAI	130 - 62	HCF4508BF	SGAI	174 - 33	HD74LS21	HITJ	78 - 23	HD74LS393	HITJ	146 - 66
HCC4044BD	SGAI	174 - 91	HCC40162BK	SGAI	130 - 63	HCF4510BE	SGAI	130 - 48	HD74LS21P	HITJ	78 - 24	HD74LS393P	HITJ	146 - 67
HCC4044BF	SGAI	174 - 92	HCC40162BF	SGAI	133 - 96	HCF4510BF	SGAI	130 - 49	HD74LS22	HITJ	99 - 97	HD74LS490	HITJ	151 - 25
HCC4044BK	SGAI	174 - 93	HCC40163BF	SGAI	133 - 97	HCF4514BE	SGAI	116 - 66	HD74LS22P	HITJ	99 - 98	HD74LS490P	HITJ	151 - 26
HCC4045BD	SGAI	135 - 22	HCC40174BD	SGAI	133 - 98	HCF4514BF	SGAI	116 - 67	HD74LS26	HITJ	99 - 99	HD74LS668	HITJ	151 - 27
HCC4045BF	SGAI	135 - 23	HCC40174BF	SGAI	35 - 82	HCF4515BE	SGAI	116 - 68	HD74LS26P	HITJ	99 - 100	HD74LS668P	HITJ	151 - 28
HCC4045BK	SGAI	135 - 24	HCC40174BF	SGAI	35 - 83	HCF4515BF	SGAI	116 - 69	HD74LS27	HITJ	91 - 13	HD74LS669	HITJ	146 - 68
HCC4047BD	SGAI	154 - 49	HCC40174BK	SGAI	35 - 84	HCF4516BE	SGAI	133 - 80	HD74LS27P	HITJ	91 - 14	HD74LS669P	HITJ	146 - 69
HCC4047BF	SGAI	154 - 50	HCC40182BD	SGAI	170 - 7	HCF4516BF	SGAI	133 - 81	HD74LS30	HITJ	99 - 101	HD10101	HITJ	71 - 3
HCC4047BK	SGAI	154 - 51	HCC40182BF	SGAI	170 - 8	HCF4518BE	SGAI	130 - 10	HD74LS30P	HITJ	99 - 102	HD10102	HITJ	73 - 61
HCC4048BD	SGAI	57 - 66	HCC40182BK	SGAI	170 - 9	HCF4518BF	SGAI	130 - 11	HD74LS32	HITJ	87 - 90	HD10104	HITJ	70 - 96
HCC4048BF	SGAI	57 - 67	HCF4000BE	SGAI	61 - 82	HCF4520BE	SGAI	132 - 90	HD74LS32P	HITJ	87 - 91	HD10105	HITJ	72 - 13
HCC4048BK	SGAI	57 - 68	HCF4000BF	SGAI	61 - 83	HCF4520BF	SGAI	132 - 91	HD74LS37	HITJ	99 - 103	HD10106	HITJ	73 - 62
HCC4060BD	SGAI	134 - 68	HCF4001BE	SGAI	60 - 103	HCF4527BE	SGAI	156 - 37	HD74LS37P	HITJ	99 - 104	HD10107	HITJ	71 - 85
HCC4060BF	SGAI	134 - 69	HCF4001BF	SGAI	60 - 104	HCF4527BF	SGAI	156 - 38	HD74LS38	HITJ	99 - 105	HD10109	HITJ	72 - 14
HCC4060BK	SGAI	134 - 70	HCF4002BE	SGAI	60 - 105	HCF4555BE	SGAI	116 - 70	HD74LS38P	HITJ	99 - 106	HD10110	HITJ	71 - 14
HCC4063BD	SGAI	165 - 48	HCF4002BF	SGAI	60 - 106	HCF4555BF	SGAI	116 - 71	HD74LS40	HITJ	99 - 107	HD10111	HITJ	73 - 63
HCC4063BF	SGAI	165 - 49	HCF4008BE	SGAI	159 - 72	HCF4556BE	SGAI	116 - 72	HD74LS40P	HITJ	99 - 108	HD10117	HITJ	70 - 103
HCC4063BK	SGAI	165 - 50	HCF4008BF	SGAI	159 - 73	HCF4556BF	SGAI	116 - 73	HD74LS42	HITJ	119 - 55	HD10118	HITJ	70 - 102
HCC4068BD	SGAI	63 - 73	HCF4011BE	SGAI	64 - 18	HCF40101BE	SGAI	172 - 13	HD74LS42P	HITJ	119 - 56	HD10119	HITJ	70 - 101
HCC4068BF	SGAI	63 - 74	HCF4011BF	SGAI	64 - 19	HCF40101BF	SGAI	172 - 14	HD74LS45	HITJ	87 - 32	HD10121	HITJ	70 - 104
HCC4068BK	SGAI	63 - 75	HCF4012BE	SGAI	64 - 20	HCF40102BE	SGAI	129 - 64	HD74LS51	HITJ	87 - 33	HD10130	HITJ	176 - 55
HCC4070BD	SGAI	65 - 26	HCF4012BF	SGAI	64 - 21	HCF40102BF	SGAI	129 - 65	HD74LS54	HITJ	87 - 34	HD10131	HITJ	39 - 15
HCC4070BF	SGAI	65 - 27	HCF4013BE	SGAI	35 - 85	HCF40103BE	SGAI	131 - 72	HD74LS54P	HITJ	87 - 35	HD10133	HITJ	176 - 59
HCC4070BK	SGAI	65 - 28	HCF4013BF	SGAI	35 - 86	HCF40103BF	SGAI	131 - 73	HD74LS55	HITJ	87 - 36	HD10136	HITJ	153 - 13
HCC4071BD	SGAI	57 - 93	HCF4017BE	SGAI	136 - 53	HCF40160BE	SGAI	130 - 64	HD74LS55P	HITJ	87 - 37	HD10160	HITJ	173 - 56
HCC4071BF	SGAI	57 - 94	HCF4017BF	SGAI	136 - 54	HCF40160BF	SGAI	130 - 65	HD74LS73	HITJ	43 - 13	HD10161	HITJ	117 - 75
HCC4071BK	SGAI	57 - 95	HCF4018BE	SGAI	137 - 98	HCF40161BE	SGAI	133 - 99	HD74LS73P	HITJ	43 - 14	HD10162	HITJ	117 - 76
HCC4072BD	SGAI	57 - 96	HCF4018BF	SGAI	137 - 100	HCF40161BF	SGAI	133 - 100	HD74LS74	HITJ	51 - 70	HD10175	HITJ	176 - 56
HCC4072BF	SGAI	57 - 97	HCF4019BE	SGAI	56 - 81	HCF40162BE	SGAI	130 - 66	HD74LS74P	HITJ	51 - 71	HD10179	HITJ	170 - 27
HCC4072BK	SGAI	57 - 98	HCF4019BF	SGAI	56 - 82	HCF40162BF	SGAI	130 - 67	HD74LS75	HITJ	51 - 72	HD10180	HITJ	160 - 19
HCC4073BD	SGAI	55 - 67	HCF4020BE	SGAI	134 - 72	HCF40163BE	SGAI	133 - 101	HD74LS75P	HITJ	178 - 51	HD10181	HITJ	168 - 23
HCC4073BF	SGAI	55 - 68	HCF4020BF	SGAI	134 - 72	HCF40163BF	SGAI	133 - 102	HD74LS76	HITJ	51 - 73	HD10209	HITJ	72 - 15
HCC4073BK	SGAI	55 - 69	HCF4021BE	SGAI	35 - 51	HCF40174BE	SGAI	35 - 87	HD74LS76P	HITJ	178 - 52	HD10210	HITJ	71 - 15
HCC4075BD	SGAI	57 - 99	HCF4021BF	SGAI	35 - 52	HCF40174BF	SGAI	35 - 88	HD74LS77	HITJ	43 - 15	HD10211	HITJ	73 - 64
HCC4075BF	SGAI	57 - 100	HCF4022BE	SGAI	136 - 55	HCF40182BE	SGAI	170 - 10	HD74LS77P	HITJ	43 - 16	HD10230	HITJ	176 - 54
HCC4075BK	SGAI	57 - 101	HCF4022BF	SGAI	136 - 56	HCF40182BF	SGAI	170 - 11	HD74LS78	HITJ	178 - 43	HD10231	HITJ	39 - 16
HCC4076BD	SGAI	35 - 48	HCF4023BE	SGAI	64 - 22	HD1-6600-5	HAS	55 - 37	HD74LS77P	HITJ	178 - 44	HD10551	HITJ	164 - 11
HCC4076BF	SGAI	35 - 49	HCF4023BF	SGAI	64 - 23	HD1-6600-5	HAS	55 - 38	HD74LS78	HITJ	43 - 17	HD14000UB	HITJ	59 - 38
HCC4076BK	SGAI	35 - 50	HCF4024BE	SGAI	134 - 73	HD1-15530-2#mil	HAS	184 - 82	HD74LS78P	HITJ	43 - 18	HD14001B	HITJ	58 - 77
HCC4077BD	SGAI	65 - 80	HCF4024BF	SGAI	134 - 74	HD1-15530-2#mil	HAS	184 - 83	HD74LS83A	HITJ	161 - 32	HD14002B	HITJ	58 - 78
HCC4077BF	SGAI	65 - 81	HCF4025BE	SG										

3. TYPE NO. CROSS INDEX

				IN TYPE NUMBER SEQUENCE							
TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
HD14516B	◆HITJ	130 - 12	HEF4017BPN	SIC	137 - 71	HEF4069UBDF	SIC	66 - 19	HEF4531BPN	SIC	172 - 18
HD14518B	◆HITJ	132 - 92	HEF4017BTD	SIC	137 - 85	HEF4069UBPN	SIC	66 - 20	HEF4531BTD	SIC	172 - 19
HD14520B	◆HITJ	132 - 93	HEF4017P	◆MULB	136 - 33	HEF4069UBTD	SIC	66 - 21	HEF4534	RTCF	176 - 29
HD14521B	◆HITJ	156 - 80	◆PHIN	VALG		HEF4070	RTCF	65 - 66	HEF4534BDF	SIC	136 - 30
HD14522B	◆HITJ	129 - 101	HEF4018	RTCF	137 - 64	HEF4070BDF	SIC	65 - 67	HEF4534BPN	SIC	136 - 31
HD14526B	◆HITJ	129 - 102	HEF4018BDF	SIC	137 - 65	HEF4070BPN	SIC	65 - 68	HEF4538BDF	SIC	155 - 92
HD14527B	◆HITJ	156 - 39	HEF4018BPN	SIC	137 - 66	HEF4070P	◆MULB	65 - 15	HEF4538BPN	SIC	155 - 93
HD14530B	◆HITJ	183 - 1	HEF4018BTD	SIC	137 - 67	◆PHIN	VALG		HEF4538BTD	SIC	155 - 85
HD14531B	◆HITJ	172 - 31	HEF4018P	◆MULB	137 - 75	HEF4071	RTCF	58 - 40	HEF4541BDF	SIC	122 - 86
HD14534B	◆HITJ	129 - 39	◆PHIN	VALG		HEF4071BDF	SIC	58 - 41	HEF4541BPN	SIC	122 - 87
HD14536B	◆HITJ	122 - 81	HEF4020	RTCF	134 - 36	HEF4071BPN	SIC	58 - 42	HEF4541BTD	SIC	122 - 88
HD14538B	◆HITJ	154 - 60	HEF4020BDF	SIC	134 - 37	HEF4071BTD	SIC	58 - 43	HEF4585	RTCF	165 - 31
HD14543B	◆HITJ	117 - 45	HEF4020BPN	SIC	134 - 38	HEF4071P	◆MULB	57 - 81	HEF4585BDF	SIC	165 - 32
HD14553B	◆HITJ	129 - 46	HEF4020BTD	SIC	135 - 4	◆PHIN	VALG		HEF4585BPN	SIC	165 - 33
HD14554B	◆HITJ	163 - 11	HEF4020P	◆MULB	134 - 19	HEF4072	RTCF	58 - 44	HEF4585BTD	SIC	165 - 34
HD14558B	◆HITJ	117 - 46	◆PHIN	VALG		HEF4072BDF	SIC	58 - 45	HEF4724	RTCF	175 - 92
HD14560B	◆HITJ	159 - 65	HEF4022	RTCF	137 - 72	HEF4072BPN	SIC	58 - 46	HEF4724BDF	SIC	175 - 93
HD14569B	◆HITJ	130 - 81	HEF4022BDF	SIC	137 - 73	HEF4072BTD	SIC	58 - 47	HEF4724BPN	SIC	175 - 94
HD14572UB	◆HITJ	183 - 2	HEF4022BPN	SIC	137 - 74	HEF4072P	◆MULB	57 - 82	HEF4724BTD	SIC	175 - 95
HD14581B	◆HITJ	168 - 13	HEF4022BTD	SIC	134 - 79	◆PHIN	VALG		HEF4737	RTCF	135 - 45
HD14582B	◆HITJ	170 - 12	HEF4022P	◆MULB	137 - 68	HEF4073	RTCF	56 - 10	HEF4737BDF	SIC	135 - 63
HD100101	◆HITJ	71 - 6	◆PHIN	VALG		HEF4073B	◆VALG	55 - 62	HEF4737BPN	SIC	135 - 46
HD100101F	◆HITJ	71 - 7	HEF4023	RTCF	64 - 36	HEF4073BDF	SIC	56 - 11	HEF4737P	SIC	136 - 64
HD100102	◆HITJ	71 - 8	HEF4023BDF	◆MULB	64 - 37	HEF4073BPN	SIC	56 - 12	HEF4737VDF	SIC	135 - 47
HD100102F	◆HITJ	71 - 9	◆PHIN	RTCF		HEF4073BTD	SIC	56 - 13	HEF4737VDF	SIC	135 - 47
HD100107	◆HITJ	71 - 83	HEF4023B	◆MULB	64 - 38	HEF4073P	◆PHIN	55 - 63	HEF4737BDF	SIC	137 - 107
HD100107F	◆HITJ	71 - 84	HEF4023BP	MULB	64 - 38	HEF4073P	RTCF	58 - 48	HEF4737BPN	SIC	137 - 107
HD100117	◆HITJ	71 - 61	◆PHIN	RTCF		HEF4075	◆VALG	57 - 89	HEF40160	◆VALG	136 - 57
HD100117F	◆HITJ	71 - 62	HEF4023BT	RTCF	64 - 39	HEF4075B	SIC	57 - 89	HEF40160BDF	◆VALG	136 - 58
HD100118	◆HITJ	71 - 63	HEF4023BTD	◆MULB	63 - 2	HEF4075BDF	SIC	58 - 49	HEF40180BDF	SIC	136 - 59
HD100118F	◆HITJ	71 - 64	HEF4023P	◆MULB	63 - 2	HEF4075BPN	SIC	58 - 50	HEF40180BPN	SIC	136 - 60
HD100122	◆HITJ	70 - 99	◆PHIN	VALG		HEF4075BTD	RTCF	58 - 51	HEF40160BTD	SIC	136 - 66
HD100122F	◆HITJ	70 - 100	HEF4024	RTCF	134 - 39	HEF4077B	◆VALG	66 - 4	HEF40161	RTCF	134 - 22
HD100130	◆HITJ	176 - 58	HEF4024BDF	SIC	134 - 40	HEF4077BDF	SIC	66 - 5	HEF40161BDF	SIC	134 - 26
HD100130F	◆HITJ	178 - 10	HEF4024BPN	SIC	134 - 41	HEF4077BPN	SIC	66 - 6	HEF40161BPN	SIC	134 - 27
HD100131	◆HITJ	39 - 27	HEF4024BTD	SIC	134 - 41	HEF4077BTD	SIC	66 - 7	HEF40161BTD	SIC	134 - 27
HD100131F	◆HITJ	39 - 28	HEF4024P	◆MULB	134 - 82	HEF4077P	◆PHIN	65 - 88	HEF40161BTD	SIC	135 - 7
HD100136	◆HITJ	139 - 1	HEF4025	◆MULB	134 - 82	HEF4078	RTCF	61 - 15	HEF40162	◆VALG	136 - 60
HD100136F	◆HITJ	139 - 2	◆PHIN	◆VALG		HEF4078BDF	RTCF	61 - 15	HEF40162B	◆VALG	136 - 70
HD100150F	◆HITJ	176 - 60	HEF4025BDF	RTCF	61 - 11	HEF4078BPN	SIC	61 - 16	HEF40162BDF	SIC	136 - 61
HD100151	◆HITJ	39 - 29	HEF4025BDF	SIC	61 - 12	HEF4078BTD	SIC	61 - 17	HEF40162BPN	SIC	136 - 62
HD100151F	◆HITJ	39 - 30	HEF4025BPN	SIC	61 - 13	HEF4078P	◆MULB	61 - 18	HEF40162BTD	SIC	136 - 67
HD100155	◆HITJ	176 - 61	HEF4025BTD	SIC	61 - 14	◆PHIN	◆VALG		HEF40163	RTCF	134 - 28
HD100155F	◆HITJ	176 - 62	HEF4025P	◆MULB	59 - 49	HEF4081	RTCF	56 - 14	HEF40163B	◆VALG	133 - 105
HD100156	◆HITJ	184 - 69	◆PHIN	◆VALG		HEF4081BDF	RTCF	56 - 15	HEF40163BDF	SIC	134 - 29
HD100156F	◆HITJ	184 - 70	HEF4027	RTCF	34 - 76	HEF4081BPN	SIC	56 - 16	HEF40163BPN	SIC	134 - 30
HD100158	◆HITJ	39 - 4	HEF4027BDF	SIC	34 - 80	HEF4081BTD	SIC	56 - 17	HEF40163BTD	SIC	135 - 8
HD100158F	◆HITJ	39 - 5	HEF4027BPN	SIC	34 - 81	HEF4081P	◆MULB	55 - 55	HEF40174BDF	SIC	35 - 97
HD100160	◆HITJ	172 - 46	HEF4027BTD	SIC	34 - 82	◆PHIN	◆VALG		HEF40174BPN	SIC	36 - 1
HD100160F	◆HITJ	172 - 47	HEF4027P	◆MULB	35 - 30	HEF4082	RTCF	56 - 18	HEF40174BTD	SIC	36 - 11
HD100165#ai	◆HITJ	184 - 71	◆PHIN	◆VALG		HEF4082BDF	RTCF	56 - 19	HEF40174P	◆MULB	37 - 11
HD100165F#ai	◆HITJ	184 - 72	HEF4028	RTCF	117 - 17	HEF4082BPN	SIC	56 - 20	HEF40175BDF	◆PHIN	◆VALG
HD100166	◆HITJ	165 - 74	HEF4028B	◆VALG	117 - 18	HEF4082BTD	SIC	56 - 21	HEF40175BDF	SIC	36 - 2
HD100166F	◆HITJ	165 - 75	HEF4028BDF	SIC	117 - 19	HEF4082P	◆MULB	55 - 56	HEF40175BPN	SIC	36 - 3
HD100170	◆HITJ	121 - 19	HEF4028BPN	SIC	117 - 20	◆PHIN	◆VALG		HEF40175BTD	SIC	36 - 4
HD100170F	◆HITJ	121 - 53	HEF4028BTD	SIC	117 - 21	HEF4085	RTCF	57 - 39	HEF40175P	◆MULB	37 - 12
HD100179	◆HITJ	170 - 42	HEF4028P#1	◆MULB	117 - 22	HEF4085BDF	RTCF	57 - 40	◆PHIN	◆VALG	
HD100179F	◆HITJ	170 - 41	◆PHIN	◆VALG		HEF4085BPN	SIC	57 - 41	HEF40192	RTCF	136 - 34
HD100180	◆HITJ	162 - 39	HEF4028P#2	◆MULB	116 - 37	HEF4085BTD	SIC	57 - 42	HEF40192BDF	SIC	136 - 35
HD100180F	◆HITJ	162 - 40	◆PHIN	◆VALG		HEF4085P	◆MULB	57 - 8	HEF40192BPN	SIC	136 - 36
HD100181	◆HITJ	168 - 77	HEF4029	RTCF	138 - 29	◆PHIN	◆VALG		HEF40192BTD	SIC	136 - 65
HD100181F	◆HITJ	168 - 78	HEF4029B	◆VALG	138 - 27	HEF4086	RTCF	57 - 43	HEF40192P	◆MULB	130 - 24
HEF4000	◆RTCF	61 - 84	HEF4029BDF	SIC	138 - 30	HEF4086B	◆VALG	57 - 11	HEF40193	RTCF	133 - 110
HEF4000B	◆VALG	61 - 77	HEF4029BDF	SIC	138 - 31	HEF4086BDF	◆VALG	57 - 14	HEF40193BDF	SIC	134 - 1
HEF4000BDF	◆SIC	61 - 85	HEF4029BPN	SIC	138 - 32	HEF4086BPN	SIC	57 - 45	HEF40193BPN	SIC	134 - 2
HEF4000BPN	◆SIC	61 - 86	HEF4029P	◆MULB	138 - 28	HEF4086BTD	SIC	57 - 46	HEF40193BTD	SIC	134 - 81
HEF4000BTD	◆SIC	61 - 87	◆PHIN	◆VALG		HEF4086P	◆PHIN	57 - 12	HEF40193P	◆MULB	133 - 33
HEF4001	◆RTCF	60 - 110	HEF4030	RTCF	65 - 62	HEF4087	RTCF	174 - 27	◆PHIN	◆VALG	
HEF4001BDF	◆SIC	60 - 110	HEF4030BDF	SIC	65 - 63	HEF4508BDF	RTCF	174 - 28	HEF40373B(A)	◆MULB	175 - 57
HEF4001BPN	◆SIC	61 - 1	HEF4030BPN	SIC	65 - 64	HEF4508BPN	SIC	130 - 73	HEF40374B(A)	◆MULB	36 - 74
HEF4001BTD	◆SIC	61 - 2	HEF4030BTD	SIC	65 - 65	HEF4510	RTCF	130 - 68	◆SIC		
HEF4001P	◆MULB	59 - 47	HEF4030P	◆MULB	65 - 14	HEF4510B	◆VALG	130 - 74	HXA220-402	◆RTCF	165 - 76
◆PHIN	◆VALG		◆PHIN	◆VALG		HEF4510BDF	SIC	130 - 75	HXA100101D	PHIN	71 - 10
HEF4001UBDF	◆SIC	61 - 4	HEF4040	RTCF	134 - 42	HEF4510BPN	SIC	130 - 76	HXA100101F	PHIN	71 - 11
HEF4001UBPN	◆SIC	61 - 5	HEF4040BDF	SIC	134 - 43	HEF4510BTD	SIC	132 - 34	HXA100102D	PHIN	71 - 12
HEF4001UBTD	◆SIC	61 - 6	HEF4040BPN	SIC	134 - 44	HEF4516	RTCF	134 - 22	HXA100102F	PHIN	71 - 13
HEF4002	◆RTCF	61 - 7	HEF4040BTD	SIC	135 - 6	HEF4516B	◆VALG	133 - 103	HXA100102P	PHIN	71 - 14
HEF4002BDF	◆SIC	61 - 8	HEF4040P	◆MULB	134 - 80	HEF4516BDF	SIC	134 - 23	HXA100107F	PHIN	71 - 81
HEF4002BPN	◆SIC	61 - 9	◆PHIN	◆VALG		HEF4516BPN	SIC	134 - 24	HXA100112D	PHIN	71 - 82
HEF4002BTD	◆SIC	61 - 10	HEF4042	RTCF	174 - 64	HEF4516BTD	SIC	135 - 3	HXA100112F	PHIN	71 - 18
HEF4002P	◆MULB	59 - 48	HEF4042BDF	SIC	174 - 65	HEF4518	RTCF	130 - 31	HXA100112P	PHIN	71 - 19
◆PHIN	◆VALG		HEF4042BPN	SIC	174 - 66	HEF4518BDF	SIC	130 - 32	HXA100117D	PHIN	71 - 20
HEF4008	◆RTCF	159 - 51	HEF4042BTD	SIC	174 - 67	HEF4518BPN	SIC	130 - 33	HXA100117F	PHIN	71 - 21
HEF4008B	◆VALG	160 - 5	HEF4042P	◆MULB	175 - 6	HEF4518BTD	SIC	130 - 34	HXA100118D	PHIN	71 - 22
HEF4008BDF	◆SIC	159 - 2	◆PHIN	◆VALG		HEF4518P	◆MULB	130 - 34	HXA100118F	PHIN	71 - 23
HEF4008BPN	◆SIC	159 - 3	HEF4043	RTCF	174 - 34	◆PHIN	◆VALG		HXA100122D	PHIN	71 - 98
HEF4008BTD	◆SIC	159 - 4	HEF4043BDF								

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K155LR4	USSR	82 - 69	M74ALS01P	MITJ	99 - 110	M74LS383P	MITJ	150 - 36	JANM38510/00102CAB	FSC	100 - 46	JANM38510/00201BAA	NSC	43 - 36
K155TM2	USSR	54 - 47	M74ALS02P	MITJ	91 - 15	M74LS423P	MITJ	155 - 94	JANM38510/00102CAC	FSC	100 - 47	JANM38510/00201BAC	NSC	43 - 37
K155TM5	USSR	54 - 48	M74ALS03AP	MITJ	100 - 1	M74LS490P	MITJ	139 - 82	JANM38510/00103CAB	FSC	100 - 48	JANM38510/00201BCA	NSC	43 - 38
K155TM7	USSR	54 - 86	M74ALS04P	MITJ	115 - 38	M74LS668P	MITJ	139 - 83	JANM38510/00103CBA	FSC	100 - 49	JANM38510/00201BCB	NSC	43 - 39
K155TV1	USSR	47 - 53	M74ALS05P	MITJ	115 - 39	M74LS669P	MITJ	144 - 70	JANM38510/00103CBB	FSC	100 - 50	JANM38510/00201BCD	NSC	43 - 40
K176ID1	USSR	117 - 77	M74ALS08P	MITJ	78 - 25	M702B1	SGAI	133 - 59	JANM38510/00103CBB	FSC	100 - 51	JANM38510/00201BDB	NSC	43 - 41
K176IE1	USSR	139 - 56	M74ALS09P	MITJ	78 - 26	M702D1	SGAI	133 - 60	JANM38510/00103CBB	FSC	100 - 52	JANM38510/00201BDC	NSC	43 - 42
K176IE2	USSR	139 - 51	M74ALS10P	MITJ	100 - 2	M702D2	SGAI	132 - 73	JANM38510/00103CBB	FSC	100 - 53	JANM38510/00201BDD	NSC	43 - 43
K176IE3	USSR	139 - 52	M74ALS11P	MITJ	78 - 27	M706B1	SGAI	135 - 13	JANM38510/00103CBB	FSC	100 - 54	JANM38510/00201BDE	NSC	43 - 44
K176IE4	USSR	139 - 50	M74ALS12P	MITJ	100 - 3	M714B1	SGAI	135 - 14	JANM38510/00103CBB	FSC	100 - 55	JANM38510/00201BDF	NSC	43 - 45
K176IE6	USSR	139 - 57	M74ALS15P	MITJ	78 - 28	M714D1	SGAI	135 - 21	JANM38510/00103CBB	FSC	100 - 56	JANM38510/00201BEG	NSC	43 - 46
K176LA7	USSR	75 - 3	M74ALS20AP	MITJ	100 - 4	M730B1	SGAI	135 - 15	JANM38510/00103CBB	FSC	100 - 57	JANM38510/00201BEH	NSC	43 - 47
K176LA8	USSR	75 - 4	M74ALS21P	MITJ	78 - 29	M730D1	SGAI	135 - 16	JANM38510/00103CBB	FSC	100 - 58	JANM38510/00201BEI	NSC	43 - 48
K176LA9	USSR	75 - 5	M74ALS22AP	MITJ	100 - 5	M731B1	SGAI	135 - 10	JANM38510/00103CBB	FSC	100 - 59	JANM38510/00201BEJ	NSC	43 - 49
K176LE5	USSR	74 - 105	M74ALS27P	MITJ	91 - 16	M731D1	SGAI	135 - 11	JANM38510/00103CBB	FSC	100 - 60	JANM38510/00201BEK	NSC	43 - 50
K176LE6	USSR	74 - 106	M74ALS28P	MITJ	91 - 17	M750B1	SGAI	135 - 17	JANM38510/00103CBB	FSC	100 - 61	JANM38510/00201BEL	NSC	43 - 51
K176LE10	USSR	75 - 1	M74ALS30P	MITJ	100 - 6	M750D1	SGAI	135 - 18	JANM38510/00103CBB	FSC	100 - 62	JANM38510/00201BEM	NSC	43 - 52
K176L11	USSR	74 - 102	M74ALS32P	MITJ	87 - 92	M752B1	SGAI	135 - 12	JANM38510/00103CBB	FSC	100 - 63	JANM38510/00201BEN	NSC	43 - 53
K176LP2	USSR	115 - 85	M74ALS33P	MITJ	91 - 18	M752D1	SGAI	135 - 9	JANM38510/00103CBB	FSC	100 - 64	JANM38510/00201BEO	NSC	43 - 54
K176LP4	USSR	115 - 84	M74ALS37P	MITJ	100 - 7	M754B1	SGAI	135 - 19	JANM38510/00103CBB	FSC	100 - 65	JANM38510/00201BEP	NSC	43 - 55
K176LP11	USSR	74 - 104	M74ALS38P	MITJ	100 - 8	M754D1	SGAI	135 - 20	JANM38510/00103CBB	FSC	100 - 66	JANM38510/00201BEE	NSC	43 - 56
K176LP12	USSR	74 - 103	M74ALS40P	MITJ	100 - 9	M4001BP	MITJ	61 - 19	JANM38510/00103CBB	FSC	100 - 67	JANM38510/00201BEE	NSC	43 - 57
K176LS1	USSR	74 - 101	M74ALS74P	MITJ	54 - 35	M4002BP	MITJ	61 - 20	JANM38510/00103CBB	FSC	100 - 68	JANM38510/00201BEE	NSC	43 - 58
K176TM2	USSR	39 - 95	M74ALS112AP	MITJ	47 - 45	M4011BP	MITJ	64 - 45	JANM38510/00103CBB	FSC	100 - 69	JANM38510/00201BEE	NSC	43 - 59
K176TV1	USSR	39 - 94	M74ALS113AP	MITJ	47 - 46	M4011UBP	MITJ	64 - 65	JANM38510/00103CBB	FSC	100 - 70	JANM38510/00201BEE	NSC	43 - 60
LB8555D	TSAJ	127 - 78	M74ALS114AP	MITJ	47 - 47	M4012BP	MITJ	64 - 66	JANM38510/00103CBB	FSC	100 - 71	JANM38510/00201BEE	NSC	43 - 61
LB8555S	TSAJ	127 - 79	M74ALS1000P	MITJ	100 - 10	M4013BP	MITJ	36 - 6	JANM38510/00103CBB	FSC	100 - 72	JANM38510/00201BEE	NSC	43 - 62
LC4001B	TSAJ	93 - 39	M74ALS1002P	MITJ	91 - 19	M4017BP	MITJ	136 - 91	JANM38510/00103CAA	FSC	100 - 73	JANM38510/00201BEE	NSC	43 - 63
LC4001BM	TSAJ	58 - 81	M74ALS1003P	MITJ	100 - 11	M4018BP	MITJ	136 - 89	JANM38510/00103CAA	FSC	100 - 74	JANM38510/00201BEE	NSC	43 - 64
LC4011B	TSAJ	108 - 107	M74ALS1004P	MITJ	78 - 30	M4019BP	MITJ	56 - 83	JANM38510/00103CAA	FSC	100 - 75	JANM38510/00201BEE	NSC	43 - 65
LC4011BM	TSAJ	62 - 10	M74ALS1020P	MITJ	100 - 12	M4020BP	MITJ	131 - 74	JANM38510/00103CAA	FSC	100 - 76	JANM38510/00201BEE	NSC	43 - 66
LC4012B	TSAJ	64 - 44	M74LS00P	MITJ	100 - 13	M4022BP	MITJ	136 - 92	JANM38510/00103CAA	FSC	100 - 77	JANM38510/00201BEE	NSC	43 - 67
LC4013B	TSAJ	36 - 70	M74LS02P	MITJ	91 - 20	M4023BP	MITJ	64 - 47	JANM38510/00103CAA	FSC	100 - 78	JANM38510/00201BEE	NSC	43 - 68
LC4015B	TSAJ	36 - 73	M74LS03P	MITJ	100 - 14	M4024BP	MITJ	131 - 75	JANM38510/00103CAA	FSC	100 - 79	JANM38510/00201BEE	NSC	43 - 69
LC4019B	TSAJ	56 - 87	M74LS04P	MITJ	115 - 21	M4025BP	MITJ	61 - 21	JANM38510/00103CAA	FSC	100 - 80	JANM38510/00201BEE	NSC	43 - 70
LC4027B	TSAJ	35 - 11	M74LS05P	MITJ	115 - 22	M4027BP	MITJ	34 - 83	JANM38510/00103CAA	FSC	100 - 81	JANM38510/00201BEE	NSC	43 - 71
LC4028B	TSAJ	117 - 23	M74LS08P	MITJ	78 - 31	M4028BP	MITJ	117 - 24	JANM38510/00103CAA	FSC	100 - 82	JANM38510/00201BEE	NSC	43 - 72
LC4049B	TSAJ	66 - 22	M74LS09P	MITJ	78 - 32	M4029BP	MITJ	129 - 66	JANM38510/00103CAA	FSC	100 - 83	JANM38510/00201BEE	NSC	43 - 73
LC4050B	TSAJ	66 - 23	M74LS10P	MITJ	100 - 15	M4030BP	MITJ	65 - 69	JANM38510/00103CAA	FSC	100 - 84	JANM38510/00201BEE	NSC	43 - 74
LC4050BM	TSAJ	66 - 24	M74LS11P	MITJ	78 - 33	M4040BP	MITJ	131 - 76	JANM38510/00103CAA	FSC	100 - 85	JANM38510/00201BEE	NSC	43 - 75
LC4069UB	TSAJ	115 - 78	M74LS12P	MITJ	100 - 16	M4042BP	MITJ	174 - 20	JANM38510/00103CAA	FSC	100 - 86	JANM38510/00201BEE	NSC	43 - 76
LC4069UBM	TSAJ	66 - 36	M74LS15P	MITJ	78 - 34	M4043BP	MITJ	174 - 25	JANM38510/00104BAA	FSC	100 - 87	JANM38510/00201BEE	NSC	43 - 77
LC4071B	TSAJ	88 - 49	M74LS20P	MITJ	100 - 17	M4044BP	MITJ	174 - 26	JANM38510/00104BAA	FSC	100 - 88	JANM38510/00201BEE	NSC	43 - 78
LC4081B	TSAJ	81 - 33	M74LS21P	MITJ	78 - 35	M4063BP	MITJ	165 - 57	JANM38510/00104BAA	FSC	100 - 89	JANM38510/00201BEE	NSC	43 - 79
LC4081BM	TSAJ	62 - 11	M74LS22P	MITJ	100 - 18	M4068BP	MITJ	57 - 56	JANM38510/00104BAA	FSC	100 - 90	JANM38510/00201BEE	NSC	43 - 80
LC4082B	TSAJ	56 - 22	M74LS27P	MITJ	91 - 21	M4071BP	MITJ	58 - 52	JANM38510/00104BAA	FSC	100 - 91	JANM38510/00201BEE	NSC	43 - 81
LC4520B	TSAJ	131 - 5	M74LS30P	MITJ	100 - 19	M4072BP	MITJ	58 - 53	JANM38510/00104BAA	FSC	100 - 92	JANM38510/00201BEE	NSC	43 - 82
LC4528B	TSAJ	155 - 86	M74LS32P	MITJ	88 - 1	M4073BP	MITJ	56 - 23	JANM38510/00104BAA	FSC	100 - 93	JANM38510/00201BEE	NSC	43 - 83
LC4969	TSAJ	66 - 37	M74LS37P	MITJ	100 - 20	M4075BP	MITJ	58 - 54	JANM38510/00104BAA	FSC	100 - 94	JANM38510/00201BEE	NSC	43 - 84
LC7900	TSAJ	155 - 83	M74LS38P	MITJ	100 - 21	M4078BP	MITJ	58 - 73	JANM38510/00104BAA	FSC	100 - 95	JANM38510/00201BEE	NSC	43 - 85
LC7960	TSAJ	129 - 5	M74LS40P	MITJ	100 - 22	M4081BP	MITJ	56 - 24	JANM38510/00104BAA	FSC	100 - 96	JANM38510/00201BEE	NSC	43 - 86
LC7961	TSAJ	129 - 6	M74LS42P	MITJ	119 - 58	M4082BP	MITJ	56 - 25	JANM38510/00104BAA	FSC	100 - 97	JANM38510/00201BEE	NSC	43 - 87
LCE301	FERR	39 - 99	M74LS47P	MITJ	120 - 90	M4099BP	MITJ	175 - 55	JANM38510/00104BAA	FSC	100 - 98	JANM38510/00201BEE	NSC	43 - 88
LCE302	FERR	75 - 36	M74LS48P	MITJ	120 - 91	M4508BP	MITJ	174 - 21	JANM38510/00104BAA	FSC	100 - 99	JANM38510/00201BEE	NSC	43 - 89
LCE303	FERR	75 - 52	M74LS51P	MITJ	83 - 110	M4510BP	MITJ	129 - 68	JANM38510/00104BAA	FSC	100 - 100	JANM38510/00201BEE	NSC	43 - 90
LCE305	FERR	154 - 88	M74LS73AP	MITJ	43 - 29	M4514BP	MITJ	116 - 78	JANM38510/00104BAA	FSC	100 - 101	JANM38510/00201BEE	NSC	43 - 91
LCE306	FERR	123 - 48	M74LS74AP	MITJ	43 - 30	M4516BP	MITJ	131 - 88	JANM38510/00104BAA	FSC	100 - 102	JANM38510/00201BEE	NSC	43 - 92
LCE308	FERR	75 - 28	M74LS75P	MITJ	177 - 44	M4518BP	MITJ	129 - 79	JANM38510/00104BAA	FSC	100 - 103	JANM38510/00201BEE	NSC	43 - 93
LCE309	FERR	75 - 30	M74LS76AP	MITJ	43 - 31	M4520BP	MITJ	132 - 22	JANM38510/00104BAA	FSC	100 - 104	JANM38510/00201BEE	NSC	43 - 94
LCE310	FERR	75 - 37	M74LS83AP	MITJ	161 - 26	M4521BP	MITJ	156 - 78	JANM38510/00104BAA	FSC	100 - 105	JANM38510/00201BEE	NSC	43 - 95
LCE401	FERR	39 - 100	M74LS85P	MITJ	166 - 43	M4528BP	MITJ	155 - 87	JANM38510/00104BAA	FSC	100 - 106	JANM38510/00201BEE	NSC	43 - 96
LCE402	FERR	75 - 38	M74LS86P	MITJ	112 - 2	M4538BP	MITJ	155 - 88	JANM38510/00104BAA	FSC	100 - 107	JANM38510/00201BEE	NSC	43 - 97
LCE403	FERR	75 - 53	M74LS90P	MITJ	143 - 75	M4555BP	MITJ	116 - 79	JANM38510/00104BAA	FSC	100 - 108	JANM38510/00201BEE	NSC	43 - 98
LCE406	FERR	123 - 49	M74LS92P	MITJ	153 - 45	M4556BP	MITJ	116 - 80	JANM38510/00104BAA	FSC	100 - 109	JANM38510/00201BEE	NSC	43 - 99
LCE407	FERR	154 - 89	M74LS93P	MITJ	150 - 34	M4572BP	MITJ	57 - 65	JANM38510/00104BAA	FSC	100 - 110	JANM38510/00201BEE	NSC	43 - 100
LCE408/A	FERR	75 - 58	M74LS107AP	MITJ	43 - 32	M4585BP	MITJ	165 - 59						

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JANM38510/00206BAB	FSC	44 - 3	JANM38510/00404CCB	FSC	91 - 60	JANM38510/00504CCB	NSC	84 - 54	JANM38510/01001CFA	none	119 - 66	JANM38510/01203CEA	none	126 - 17
JANM38510/00206BCA	MOTA	44 - 4	JANM38510/00404CDA	none	91 - 61	JANM38510/00504CDA	NSC	84 - 55	JANM38510/01001CFB	none	119 - 67	JANM38510/01203CEB	none	126 - 18
JANM38510/00206BCB	TII	44 - 5	JANM38510/00501BAA	NSC	84 - 1	JANM38510/00504CCB	NSC	85 - 1	JANM38510/01002BEA	none	121 - 1	JANM38510/01203CFA	none	126 - 19
JANM38510/00206BDA	none	44 - 6	JANM38510/00501BAB	MOTA	84 - 2	JANM38510/00601BAA	none	160 - 98	JANM38510/01002BEB	MOTA	121 - 2	JANM38510/01203CFB	none	126 - 20
JANM38510/00206CAA	none	44 - 7	JANM38510/00501BAC	NSC	84 - 3	JANM38510/00601BAB	MOTA	160 - 99	JANM38510/01002BFA	none	121 - 3	JANM38510/01204BAA	none	126 - 21
JANM38510/00206CAB	FSC	44 - 8	JANM38510/00501BCA	NSC	84 - 4	JANM38510/00601BCA	none	161 - 1	JANM38510/01002BFB	MOTA	121 - 4	JANM38510/01204BAB	MOTA	126 - 22
JANM38510/00206CCA	none	44 - 9	JANM38510/00501BCB	MOTA	84 - 5	JANM38510/00601BCB	NSC	161 - 2	JANM38510/01002CEA	none	121 - 5	JANM38510/01204BCA	none	126 - 23
JANM38510/00206CCB	TII	44 - 10	JANM38510/00501BDA	NSC	84 - 6	JANM38510/00601CAA	none	161 - 3	JANM38510/01002CEB	none	121 - 6	JANM38510/01204BCB	MOTA	126 - 24
JANM38510/00206CDA	none	44 - 11	JANM38510/00501BDB	NSC	84 - 7	JANM38510/00601CAB	none	161 - 4	JANM38510/01002CFA	none	121 - 7	JANM38510/01204CAA	none	126 - 25
JANM38510/00207BAA	none	54 - 78	JANM38510/00501CAA	NSC	84 - 8	JANM38510/00601CCA	none	161 - 5	JANM38510/01002CFB	none	121 - 8	JANM38510/01204CAB	none	126 - 26
JANM38510/00207BAB	MOTA	54 - 79	JANM38510/00501CAB	NSC	84 - 9	JANM38510/00601CCB	none	161 - 6	JANM38510/01003BEA	none	121 - 8	JANM38510/01204CCA	none	126 - 27
JANM38510/00207BCA	none	54 - 80	JANM38510/00501CAC	NSC	84 - 10	JANM38510/00602BEA	none	162 - 31	JANM38510/01003BEB	MOTA	121 - 54	JANM38510/01204CCB	none	126 - 28
JANM38510/00207BCB	MOTA	54 - 81	JANM38510/00501CAC	NSC	84 - 10	JANM38510/00602BEB	NSC	162 - 32	JANM38510/01003BFA	none	121 - 55	JANM38510/01205BEA	none	126 - 29
JANM38510/00207CAA	none	54 - 82	JANM38510/00501CBA	NSC	84 - 11	JANM38510/00602BFB	MOTA	162 - 33	JANM38510/01003BFB	MOTA	121 - 56	JANM38510/01205BEB	MOTA	126 - 30
JANM38510/00207CAB	none	54 - 83	JANM38510/00501CDB	NSC	84 - 12	JANM38510/00602CBA	NSC	162 - 34	JANM38510/01003CEA	none	121 - 57	JANM38510/01205BEA	none	126 - 31
JANM38510/00207CCA	none	54 - 84	JANM38510/00501CDB	NSC	84 - 13	JANM38510/00602CBF	MOTA	162 - 35	JANM38510/01003CEB	none	121 - 58	JANM38510/01205BEB	MOTA	126 - 32
JANM38510/00207CCB	none	54 - 85	JANM38510/00502BAA	NSC	84 - 14	JANM38510/00602CBA	NSC	162 - 36	JANM38510/01003CEC	none	121 - 59	JANM38510/01205CEA	none	126 - 33
JANM38510/00401BAA	NSC	91 - 22	JANM38510/00502BAB	NSC	84 - 15	JANM38510/00602CBF	NSC	162 - 37	JANM38510/01003CFA	none	121 - 60	JANM38510/01205CEB	none	126 - 34
JANM38510/00401BAB	FSC	91 - 23	JANM38510/00502BAC	MOTA	84 - 16	JANM38510/00602CBA	NSC	162 - 38	JANM38510/01101BAA	NSC	169 - 66	JANM38510/01205CFA	none	126 - 35
JANM38510/00401BAC	NSC	91 - 24	JANM38510/00502BAC	NSC	84 - 17	JANM38510/00602CBF	NSC	162 - 38	JANM38510/01101BBB	NSC	169 - 67	JANM38510/01205CFB	none	126 - 36
JANM38510/00401BBA	NSC	91 - 25	JANM38510/00502BBA	NSC	84 - 18	JANM38510/00603BEA	none	161 - 7	JANM38510/01101BBA	SIC	169 - 67	JANM38510/01301BAA	none	152 - 48
JANM38510/00401BCB	FSC	91 - 26	JANM38510/00502BCB	MOTA	84 - 19	JANM38510/00603BEB	NSC	161 - 8	JANM38510/01101BBB	SIC	169 - 68	JANM38510/01301BAB	none	152 - 49
JANM38510/00401BDA	NSC	91 - 27	JANM38510/00502BDB	NSC	84 - 20	JANM38510/00603BFA	MOTA	161 - 9	JANM38510/01101CBA	NSC	169 - 69	JANM38510/01301BBA	MOTA	152 - 50
JANM38510/00401BDB	SIC	91 - 28	JANM38510/00502CAA	NSC	84 - 21	JANM38510/00603BFB	NSC	161 - 10	JANM38510/01101CBB	NSC	169 - 70	JANM38510/01301BCA	NSC	152 - 51
JANM38510/00401CAA	NSC	91 - 29	JANM38510/00502CAB	NSC	84 - 22	JANM38510/00603CBA	MOTA	161 - 11	JANM38510/01101CBB	NSC	169 - 71	JANM38510/01301BCB	MOTA	152 - 52
JANM38510/00401CAB	FSC	91 - 30	JANM38510/00502CAC	NSC	84 - 23	JANM38510/00603CBF	NSC	161 - 12	JANM38510/01102BEA	none	170 - 94	JANM38510/01301BDB	none	152 - 53
JANM38510/00401CAC	NSC	91 - 31	JANM38510/00502CAB	NSC	84 - 24	JANM38510/00603CBA	NSC	161 - 13	JANM38510/01102BEB	none	170 - 95	JANM38510/01301CAA	none	152 - 54
JANM38510/00401CCA	NSC	91 - 32	JANM38510/00502CBA	NSC	84 - 25	JANM38510/00604BAA	none	161 - 14	JANM38510/01102BFB	none	170 - 96	JANM38510/01301CAB	none	152 - 55
JANM38510/00401CCB	FSC	91 - 33	JANM38510/00502CCB	NSC	84 - 26	JANM38510/00604BAB	none	160 - 78	JANM38510/01102BFA	MOTA	170 - 97	JANM38510/01301CBA	none	152 - 56
JANM38510/00401CDA	NSC	91 - 34	JANM38510/00502CDB	NSC	84 - 27	JANM38510/00604BBA	MOTA	160 - 79	JANM38510/01102CEA	none	170 - 98	JANM38510/01301CCB	none	152 - 57
JANM38510/00401CDB	NSC	91 - 35	JANM38510/00503BAA	NSC	84 - 28	JANM38510/00604BCA	NSC	160 - 80	JANM38510/01102CEB	none	170 - 99	JANM38510/01301CDB	none	152 - 58
JANM38510/00402BEA	none	91 - 36	JANM38510/00503BAB	NSC	84 - 29	JANM38510/00604BCB	MOTA	160 - 81	JANM38510/01102CFA	none	170 - 100	JANM38510/01301CDB	none	152 - 59
JANM38510/00402BEB	TII	91 - 37	JANM38510/00503BAC	MOTA	84 - 30	JANM38510/00604CAB	NSC	160 - 82	JANM38510/01102CFB	none	170 - 101	JANM38510/01302BAA	none	144 - 92
JANM38510/00402BFA	none	91 - 38	JANM38510/00503BAC	NSC	84 - 31	JANM38510/00604CCA	NSC	160 - 83	JANM38510/01201BAA	none	125 - 78	JANM38510/01302BAB	NSC	144 - 93
JANM38510/00402BFB	MOTA	91 - 39	JANM38510/00503BCA	NSC	84 - 32	JANM38510/00604CCB	NSC	160 - 84	JANM38510/01201BAB	none	125 - 79	JANM38510/01302BAC	MOTA	144 - 94
JANM38510/00402CEA	none	91 - 40	JANM38510/00503BCB	NSC	84 - 33	JANM38510/00701BAA	NSC	112 - 6	JANM38510/01201BCA	none	125 - 80	JANM38510/01302BAC	NSC	144 - 95
JANM38510/00402CEB	none	91 - 41	JANM38510/00503BCB	TII	84 - 34	JANM38510/00701BAB	NSC	112 - 7	JANM38510/01201BCB	none	125 - 81	JANM38510/01302BDA	none	144 - 96
JANM38510/00402CFA	none	91 - 42	JANM38510/00503CAA	NSC	84 - 35	JANM38510/00701BAC	FSC	112 - 8	JANM38510/01201BDB	none	125 - 82	JANM38510/01302BDB	none	145 - 1
JANM38510/00403BAA	none	91 - 43	JANM38510/00503CAB	NSC	84 - 36	JANM38510/00701BCA	NSC	112 - 9	JANM38510/01201CBA	NSC	125 - 83	JANM38510/01302CAA	none	145 - 2
JANM38510/00403BAB	MOTA	91 - 44	JANM38510/00503CAC	NSC	84 - 37	JANM38510/00701BCB	NSC	112 - 10	JANM38510/01201CBB	none	125 - 84	JANM38510/01302CAB	none	145 - 3
JANM38510/00403BCA	NSC	91 - 45	JANM38510/00503CAB	NSC	84 - 38	JANM38510/00701BCB	SIC	112 - 11	JANM38510/01201CCA	none	125 - 85	JANM38510/01302CBA	none	145 - 4
JANM38510/00403BCB	TII	91 - 46	JANM38510/00503CCB	NSC	84 - 39	JANM38510/00701BDA	NSC	112 - 12	JANM38510/01201CDB	none	126 - 1	JANM38510/01302CCB	none	145 - 5
JANM38510/00403CAA	NSC	91 - 47	JANM38510/00503CCB	NSC	84 - 40	JANM38510/00701BDB	NSC	112 - 13	JANM38510/01201CEA	none	126 - 2	JANM38510/01302CCB	none	145 - 6
JANM38510/00403CAB	NSC	91 - 48	JANM38510/00503CDB	NSC	84 - 41	JANM38510/00701BCA	FSC	112 - 14	JANM38510/01201CDB	none	126 - 3	JANM38510/01302CDB	none	145 - 7
JANM38510/00403CCA	NSC	91 - 49	JANM38510/00504BAA	NSC	84 - 42	JANM38510/00701BCB	NSC	112 - 15	JANM38510/01202BAA	none	126 - 4	JANM38510/01303BEA	none	140 - 60
JANM38510/00403CCB	NSC	91 - 50	JANM38510/00504BAA	NSC	84 - 43	JANM38510/00701CAC	FSC	112 - 16	JANM38510/01202BAB	none	126 - 5	JANM38510/01303BEB	NSC	140 - 61
JANM38510/00404BAA	NSC	91 - 51	JANM38510/00504BAB	NSC	84 - 44	JANM38510/00701CCA	NSC	112 - 17	JANM38510/01202BBA	MOTA	126 - 6	JANM38510/01303BEB	SIC	140 - 62
JANM38510/00404BAB	MOTA	91 - 52	JANM38510/00504BAC	NSC	84 - 45	JANM38510/00701CCB	NSC	112 - 18	JANM38510/01202BCA	none	126 - 7	JANM38510/01303BFA	none	140 - 63
JANM38510/00404BCA	NSC	91 - 53	JANM38510/00504BAC	NSC	84 - 46	JANM38510/00701CCB	NSC	112 - 19	JANM38510/01202BCB	none	126 - 8	JANM38510/01303BFB	NSC	140 - 64
JANM38510/00404BCB	FSC	91 - 54	JANM38510/00504BCB	NSC	84 - 47	JANM38510/00701CDB	NSC	112 - 20	JANM38510/01202BFA	MOTA	126 - 9	JANM38510/01303BFA	NSC	140 - 65
JANM38510/00404BDA	SIC	91 - 55	JANM38510/00504BDA	NSC	84 - 48	JANM38510/01001BEA	none	119 - 60	JANM38510/01202CBA	none	126 - 10	JANM38510/01303CEA	NSC	140 - 66
JANM38510/00404BDB	SIC	91 - 56	JANM38510/00504BDB	NSC	84 - 49	JANM38510/01001BEB	NSC	119 - 61	JANM38510/01202CCB	none	126 - 11	JANM38510/01303CEB	NSC	140 - 67
JANM38510/00404CAA	NSC	91 - 57	JANM38510/00504CAB	TII	84 - 50	JANM38510/01001BFB	NSC	119 - 62	JANM38510/01202CCB	none	126 - 12	JANM38510/01303CFA	NSC	140 - 68
JANM38510/00404CAB	NSC	91 - 58	JANM38510/00504CAC	NSC	84 - 51	JANM38510/01001CFA	NSC	119 - 63	JANM38510/01202CCB	none	126 - 13	JANM38510/01303CFB	NSC	140 - 69
JANM38510/00404CCA	NSC	91 - 59	JANM38510/00504CCA	NSC	84 - 52	JANM38510/01001CEA	NSC	119 - 64	JANM38510/01202CCB	none	126 - 14	JANM38510/01304BEA	NSC	145 - 70

3. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	
JANM38510/02205BCA	none	44 - 46	JANM38510/02303CCB	FSC	102 - 12	JANM38510/02601CCB	NSC	111 - 25	JANM38510/04003BDA	none	85 - 30	JANM38510/05003BCB	NSC	RCA	62 - 54
JANM38510/02205BCB	MOTA	44 - 47	JANM38510/02303CDA	none	102 - 13	JANM38510/02601CDB	NSC	111 - 26	JANM38510/04003BDB	none	85 - 31	JANM38510/05003BCC	SSS		62 - 55
JANM38510/02205BDA	none	44 - 48	JANM38510/02303CDB	none	102 - 14	JANM38510/02601CDB	NSC	111 - 27	JANM38510/04003CAA	none	85 - 32	JANM38510/05003BDA	RCA		62 - 56
JANM38510/02205BDB	none	44 - 49	JANM38510/02304BAA	none	102 - 15	JANM38510/02701BCA	NSC	89 - 91	JANM38510/04003CAB	none	85 - 33	JANM38510/05003CAA	NSC		62 - 57
JANM38510/02205CAA	none	44 - 50	JANM38510/02304BAB	MOTA	102 - 16	JANM38510/02701BCB	NSC	89 - 92	JANM38510/04003CCA	none	85 - 34	JANM38510/05003CAC	NSC		62 - 58
JANM38510/02205CAB	none	44 - 51	JANM38510/02304BCA	none	102 - 17	JANM38510/02701BDB	NSC	89 - 93	JANM38510/04003CCB	none	85 - 35	JANM38510/05003CCA	NSC		62 - 59
JANM38510/02205CCA	SIC	44 - 52	JANM38510/02304BCB	FSC	102 - 18	JANM38510/02701BCA	NSC	89 - 94	JANM38510/04003CDA	none	85 - 36	JANM38510/05003CCB	NSC	RCA	62 - 60
JANM38510/02205CCB	SIC	44 - 53	JANM38510/02304BDA	TII	102 - 19	JANM38510/02701BCB	NSC	89 - 95	JANM38510/04003CDB	none	85 - 37	JANM38510/05003CDA	RCA		62 - 61
JANM38510/02205CDA	SIC	44 - 54	JANM38510/02304BDB	none	102 - 20	JANM38510/02701CDB	NSC	89 - 96	JANM38510/04004BAA	none	85 - 38	JANM38510/05101BAC	NSC		36 - 77
JANM38510/02205CDB	SIC	44 - 55	JANM38510/02304CAA	none	102 - 21	JANM38510/02701CDB	NSC	89 - 97	JANM38510/04004BAB	MOTA	85 - 39	JANM38510/05101BCA	SSS		36 - 78
JANM38510/02206BAA	none	45 - 1	JANM38510/02304CAB	none	102 - 22	JANM38510/03001BCB	NSC	89 - 98	JANM38510/04004BCA	none	85 - 40	JANM38510/05101BCB	NSC	RCA	36 - 79
JANM38510/02206BAB	MOTA	45 - 2	JANM38510/02304CBA	none	102 - 23	JANM38510/03001BCB	FSC	68 - 47	JANM38510/04004BCB	MOTA	85 - 41	JANM38510/05101BCC	SSS		36 - 80
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JANM38510/02206BCB	MOTA	45 - 4	JANM38510/02304CCB	FSC	102 - 24	JANM38510/03001BCB	FSC	68 - 49	JANM38510/04004DBA	none	85 - 43	JANM38510/05101CAC	NSC		36 - 82
JANM38510/02206BDA	SIC	45 - 5	JANM38510/02304CDA	none	102 - 25	JANM38510/03001CAB	FSC	68 - 50	JANM38510/04004CAA	none	85 - 44	JANM38510/05101CAC	NSC		36 - 82
JANM38510/02206BDB	SIC	45 - 6	JANM38510/02304CDB	none	102 - 26	JANM38510/03001CAC	FSC	68 - 51	JANM38510/04004CAB	none	85 - 45	JANM38510/05101CCA	NSC		36 - 83
JANM38510/02206CAA	none	45 - 7	JANM38510/02306BAA	none	102 - 27	JANM38510/03001CCB	FSC	68 - 52	JANM38510/04004CBA	none	85 - 46	JANM38510/05101CCB	NSC	RCA	36 - 84
JANM38510/02206CAB	none	45 - 8	JANM38510/02306BAB	MOTA	102 - 28	JANM38510/03004BAB	FSC	68 - 53	JANM38510/04004CCB	none	85 - 47	JANM38510/05101CDA	RCA		36 - 85
JANM38510/02206CCA	SIC	45 - 9	JANM38510/02306BCA	none	102 - 29	JANM38510/03004BAC	FSC	68 - 54	JANM38510/04004CDB	none	85 - 48	JANM38510/05102BEA	SSS		35 - 13
JANM38510/02206CCB	SIC	45 - 10	JANM38510/02306BCB	MOTA	102 - 30	JANM38510/03004BCB	FSC	68 - 55	JANM38510/04004CDA	none	85 - 49	JANM38510/05102BEB	NSC	RCA	35 - 14
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JANM38510/02206CDB	SIC	45 - 12	JANM38510/02306BDB	none	102 - 32	JANM38510/03004CAC	FSC	68 - 57	JANM38510/04005BAB	MOTA	85 - 51	JANM38510/05102BFA	NSC		35 - 16
JANM38510/02301BAA	none	101 - 34	JANM38510/02306CAA	none	102 - 33	JANM38510/03004CCB	FSC	68 - 58	JANM38510/04005BCA	none	85 - 52	JANM38510/05102BFB	RCA		35 - 17
JANM38510/02301BAB	FSC	101 - 35	JANM38510/02306CAB	none	102 - 34	JANM38510/03005BAB	FSC	68 - 59	JANM38510/04005BCB	MOTA	85 - 53	JANM38510/05102BFC	NSC		35 - 18
JANM38510/02301BAC	FSC	101 - 36	JANM38510/02306CBA	none	102 - 35	JANM38510/03005BAC	FSC	68 - 60	JANM38510/04005BDB	none	85 - 54	JANM38510/05102BFD	NSC		35 - 19
JANM38510/02301BCA	none	101 - 37	JANM38510/02306CCB	none	102 - 36	JANM38510/03005BCB	FSC	68 - 61	JANM38510/04005CAA	none	85 - 55	JANM38510/05102BFE	RCA		35 - 20
JANM38510/02301BCB	none	101 - 38	JANM38510/02306CDB	none	102 - 37	JANM38510/03005CAB	FSC	68 - 62	JANM38510/04005CAB	none	86 - 1	JANM38510/05102BFF	RCA		35 - 21
JANM38510/02301BDA	TII	101 - 39	JANM38510/02306CDA	none	102 - 38	JANM38510/03005CAC	FSC	68 - 63	JANM38510/04005CBA	none	86 - 2	JANM38510/05102BFG	NSC		35 - 22
JANM38510/02301CAA	none	101 - 40	JANM38510/02306CDB	none	102 - 39	JANM38510/03005CCB	FSC	68 - 64	JANM38510/04005CDB	none	86 - 3	JANM38510/05201ACA	RCA		58 - 94
JANM38510/02301CAB	FSC	101 - 41	JANM38510/02307BAA	MOTA	102 - 40	JANM38510/04001BAA	none	85 - 2	JANM38510/04005CDB	none	86 - 4	JANM38510/05201BCA	RCA		58 - 95
JANM38510/02301CAC	FSC	101 - 42	JANM38510/02307BAC	none	102 - 41	JANM38510/04001BAB	none	85 - 3	JANM38510/04005CDB	none	86 - 5	JANM38510/05201BCB	RCA		58 - 96
JANM38510/02301CAC	FSC	101 - 42	JANM38510/02307BAC	MOTA	102 - 42	JANM38510/04001BCA	MOTA	85 - 4	JANM38510/04005CDB	none	86 - 5	JANM38510/05201BCB	RCA		58 - 96
JANM38510/02301CCA	none	101 - 43	JANM38510/02307BAA	none	102 - 43	JANM38510/04001BCB	none	85 - 4	JANM38510/04005CDB	none	86 - 5	JANM38510/05201BCC	SSS		58 - 97
JANM38510/02301CCB	FSC	101 - 44	JANM38510/02307BAB	none	102 - 44	JANM38510/04001BCB	MOTA	85 - 5	JANM38510/04005CDB	none	86 - 5	JANM38510/05201BCC	SSS		58 - 97
JANM38510/02301CDB	FSC	101 - 44	JANM38510/02307BAC	none	102 - 44	JANM38510/04001BDB	MOTA	85 - 5	JANM38510/04005CDB	none	86 - 5	JANM38510/05201BCC	SSS		58 - 97
JANM38510/02301CDA	none	101 - 45	JANM38510/02307BAA	none	102 - 45	JANM38510/04001BDB	none	85 - 6	JANM38510/04005CDB	none	86 - 5	JANM38510/05201BCC	SSS		58 - 97
JANM38510/02302BAA	none	101 - 46	JANM38510/02307CBA	none	102 - 45	JANM38510/04001BDB	none	85 - 6	JANM38510/04005CDB	none	86 - 5	JANM38510/05201BCC	SSS		58 - 97
JANM38510/02302BAA	none	101 - 46	JANM38510/02307CCB	none	102 - 46	JANM38510/04001CAA	none	85 - 7	JANM38510/04005CDB	none	86 - 5	JANM38510/05201BCC	SSS		58 - 97
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JANM38510/02302BCA	NSC	101 - 48	JANM38510/02501BCA	NSC	139 - 86	JANM38510/04001CAB	none	85 - 8	JANM38510/04005CDB	none	86 - 5	JANM38510/05201BCC	SSS		58 - 97
JANM38510/02302BCA	NSC	101 - 48	JANM38510/02501BCB	NSC	139 - 87	JANM38510/04001CAB	none	85 - 9	JANM38510/04005CDB	none	86 - 5	JANM38510/05201BCC	SSS		58 - 97
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JANM38510/02302BDA	TII	101 - 50	JANM38510/02501BDB	NSC	139 - 89	JANM38510/04001CCB	none	85 - 11	JANM38510/04005CDB	none	86 - 5	JANM38510/05201BCC	SSS		58 - 97
JANM38510/02302BDB	none	101 - 51	JANM38510/02501CBA	NSC	139 - 90	JANM38510/04001CDB	none	85 - 12	JANM38510/04005CDB	none	86 - 5	JANM38510/05201BCC	SSS		58 - 97
JANM38510/02302CAA	none	101 - 52	JANM38510/02501CDB	NSC	139 - 91	JANM38510/04001CDB	none	85 - 13	JANM38510/04005CDB	none	86 - 5	JANM38510/05201BCC	SSS		58 - 97
JANM38510/02302CAB	none	101 - 53	JANM38510/02501CDB	NSC	139 - 92	JANM38510/04002BAA	none	85 - 14	JANM38510/04005CDB	none	86 - 5	JANM38510/05201BCC	SSS		58 - 97
JANM38510/02302CCA	none	101 - 54	JANM38510/02501CDB	NSC	139 - 93	JANM38510/04002BAB	MOTA	85 - 15	JANM38510/04005CDB	none	86 - 5	JANM38510/05201BCC	SSS		58 - 97
JANM38510/02302CCB	FSC	101 - 55	JANM38510/02502BAA	NSC	144 - 77	JANM38510/04002BAC	none	85 - 16	JANM38510/04005CDB	none	86 - 5	JANM38510/05201BCC	SSS		58 - 97
JANM38510/02302CDA	none	102 - 1	JANM38510/02502BCA	NSC	144 - 78	JANM38510/04002BCB	MOTA	85 - 17	JANM38510/04005CDB	none	86 - 5	JANM38510/05201BCC	SSS		58 - 97
JANM38510/02302CDB	none	102 - 2	JANM38510/02502BCB	NSC	144 - 79	JANM38510/04002BDB	none	85 - 18	JANM38510/04005CDB	none	86 - 5	JANM38510/05201BCC	SSS		58 - 97
JANM38510/02303BAA	none	102 - 3	JANM38510/02502BDB	NSC	144 - 80	JANM38510/04002BDB	none	85 - 19	JANM38510/04005CDB	none	86 - 5	JANM38510/05201BCC	SSS		58 - 97
JANM38510/02303BAB	none	102 - 4	JANM38510/02502CBA	NSC	144 - 81	JANM38510/04002CAA	none	85 - 20	JANM38510/04005CDB	none	86 - 5	JANM38510/05201BCC	SSS		58 - 97
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JANM38510/02303BDA	none	102 - 7	JANM38510/02601BCA	NSC	111 - 20	JANM38510/04002CCB	none	85 - 24	JANM38510/04005CDB	none	86 - 5	JANM38510/05201BCC	SSS		58 - 97
JANM38510/02303BDB	none	102 - 8	JANM38510/02601BCB	NSC	111 - 21	JANM38510/04002CDB	none	85 - 25	JANM38510/04005CDB						

3. TYPE No. CROSS INDEX

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JANM38510/05203CAC	NSC	59 - 23	JANM38510/05602CEA	RCA	138 - 46	JANM38510/07001BCA	SIC	52 - 25 102 - 49	JANM38510/07008CAB	FSC	103 - 47	JANM38510/07501BDA	none	112 - 22
JANM38510/05203CCA	NSC	59 - 24	JANM38510/05602CEB	RCA	138 - 49	JANM38510/07001BCB	FSC	52 - 26 102 - 50	JANM38510/07008CAC	FSC	103 - 48	JANM38510/07501BDB	SIC	112 - 23
JANM38510/05203CCB	NSC	59 - 25	JANM38510/05602CFA	RCA	138 - 50	JANM38510/07001BCD	FSC	52 - 27 102 - 51	JANM38510/07008CBB	FSC	103 - 49	JANM38510/07501CCA	none	112 - 24
JANM38510/05203CDA	RCA	59 - 26	JANM38510/05603AEA	RCA	131 - 31	JANM38510/07001BDA	none	52 - 27 102 - 51	JANM38510/07009BEA	none	103 - 50	JANM38510/07501CCB	none	112 - 25
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JANM38510/05204ADA	RCA	59 - 28	JANM38510/05603BEA	RCA	131 - 33	JANM38510/07001CAB	FSC	102 - 53	JANM38510/07009BFB	FSC	103 - 52	JANM38510/07501CDB	none	112 - 27
JANM38510/05204BAC	NSC	59 - 29	JANM38510/05603BBE	RCA	131 - 34	JANM38510/07001CAC	FSC	102 - 54	JANM38510/07009BFA	none	103 - 53	JANM38510/07801BJB	SIC	169 - 8
JANM38510/05204BCA	NSC	59 - 30	JANM38510/05603BFA	RCA	131 - 35	JANM38510/07001CAC	FSC	52 - 29 102 - 55	JANM38510/07009CEA	none	103 - 54	JANM38510/07801CJB	none	169 - 9
JANM38510/05204BCC	SSS	59 - 31	JANM38510/05603CEA	RCA	131 - 36	JANM38510/07001CCA	none	52 - 30 103 - 1	JANM38510/07009CEB	FSC	103 - 55	JANM38510/08001BAB	FSC	78 - 60
JANM38510/05204BDC	SSS	59 - 32	JANM38510/05603CEB	RCA	131 - 37	JANM38510/07001CCB	FSC	52 - 30 103 - 1	JANM38510/07009CFB	none	104 - 1	JANM38510/08001BAC	FSC	78 - 61
JANM38510/05204BDA	RCA	59 - 33	JANM38510/05604AEA	RCA	138 - 33	JANM38510/07001CDB	none	52 - 31 103 - 2	JANM38510/07010BEA	none	104 - 2	JANM38510/08001BCB	SIC	78 - 62
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JANM38510/05302BEA	SSS	56 - 89	JANM38510/05604CEA	none	138 - 39	JANM38510/07002CBA	none	103 - 8	JANM38510/07010CEB	none	104 - 8	JANM38510/08001CCB	none	78 - 69
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JANM38510/05303BCA	NSC	65 - 2	JANM38510/05605BDB	RCA	131 - 49	JANM38510/07005BDB	none	103 - 17	JANM38510/07010CDA	SIC	52 - 39	JANM38510/08002CDA	none	79 - 6
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JANM38510/05401BFA	RCA	159 - 83	JANM38510/06002CEA	none	73 - 82	JANM38510/07006BCB	FSC	103 - 28	JANM38510/07010BDB	SIC	91 - 67	JANM38510/08003CCB	FSC	79 - 17
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JANM38510/05601AEA	RCA	135 - 48	JANM38510/06003CEB	none	73 - 4	JANM38510/07006CCA	none	103 - 33	JANM38510/07010BDB	SIC	91 - 72	JANM38510/08003CDB	none	79 - 19
JANM38510/05601AFA	RCA	135 - 49	JANM38510/06004BEA	none	73 - 84	JANM38510/07006CCB	FSC	103 - 34	JANM38510/07010BDB	SIC	91 - 73	JANM38510/08003CDB	none	79 - 19
JANM38510/05601BEA	RCA	135 - 50	JANM38510/06004BEB	MOTA	73 - 85	JANM38510/07006CDB	none	103 - 35	JANM38510/07010BDB	SIC	91 - 74	JANM38510/08003CDB	none	79 - 19
JANM38510/05601BEB	RCA	135 - 51	JANM38510/06004CEA	none	73 - 86	JANM38510/07006CDB	none	103 - 36	JANM38510/07010BDB	SIC	91 - 75	JANM38510/08003CDB	none	79 - 19
JANM38510/05601BEC	SSS	135 - 52	JANM38510/06004CEB	none	73 - 87	JANM38510/07007BCA	none	103 - 37	JANM38510/07010BDB	SIC	91 - 76	JANM38510/08003CDB	none	79 - 19
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JANM38510/05601CEA	none	135 - 54	JANM38510/06005BEB	MOTA	74 - 66	JANM38510/07007BDA	none	103 - 39	JANM38510/07010BDB	SIC	91 - 78	JANM38510/08003CDB	none	79 - 19
JANM38510/05601CEB	RCA	135 - 55	JANM38510/06005CEA	none	74 - 67	JANM38510/07007BDB	none	103 - 40	JANM38510/07010BDB	SIC	91 - 79	JANM38510/08003CDB	none	79 - 19
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JANM38510/05602AFA	RCA	138 - 44	JANM38510/06006CEA	none	73 - 7	JANM38510/07007CDB	none	103 - 44	JANM38510/07010BDB	SIC	91 - 83	JANM38510/08003CDB	none	79 - 19
JANM38510/05602BEA	RCA	138 - 45	JANM38510/07001BAB	FSC	102 - 47	JANM38510/07008BAC	FSC	103 - 45	JANM38510/07010BDB	SIC	91 - 84	JANM38510/08003CDB	none	79 - 19
JANM38510/05602BEB	RCA	138 - 47	JANM38510/07001BAC	FSC	102 - 48	JANM38510/07008BAC	FSC	103 - 46	JANM38510/07010BDB	SIC	91 - 85	JANM38510/08003CDB	none	79 - 19

3. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

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JANM38510/15001CEB	none	166 - 72	JANM38510/17103BCC	none	58 - 56	JANM38510/30006BAA	NSC	96 - 19	JANM38510/30009BDC	NSC	97 - 20	JANM38510/30108BDB	none	41 - 41
JANM38510/15001CFA	none	166 - 73	JANM38510/17103CCA	none	58 - 57	JANM38510/30006BAB	NSC	96 - 20	JANM38510/30009CAA	NSC	97 - 21	JANM38510/30108CCA	none	41 - 42
JANM38510/15001CFB	none	166 - 74	JANM38510/17103CCC	none	58 - 58	JANM38510/30006BAC	NSC	96 - 21	JANM38510/30009CAB	NSC	97 - 22	JANM38510/30108CCB	none	41 - 43
JANM38510/15202BEA	none	118 - 49	JANM38510/17202BCA	none	57 - 47	JANM38510/30006BADA	NSC	96 - 22	JANM38510/30009CAC	FSC	97 - 23	JANM38510/30108CDA	none	41 - 44
JANM38510/15202BEB	MOTA	118 - 50	JANM38510/17202BCC	none	57 - 48	JANM38510/30006BCB	TII	96 - 23	JANM38510/30009CCA	NSC	97 - 24	JANM38510/30109BEA	none	41 - 45
JANM38510/15202BFA	none	118 - 51	JANM38510/17202CCA	none	57 - 49	JANM38510/30006BCC	NSC	96 - 24	JANM38510/30009CCB	FSC	97 - 25	JANM38510/30109BEB	FSC	41 - 46
JANM38510/15202BFB	MOTA	118 - 52	JANM38510/17202CCC	none	57 - 50	JANM38510/30006BDA	none	96 - 25	JANM38510/30009CCD	NSC	97 - 26	JANM38510/30109BFA	TII	41 - 47
JANM38510/15202CEA	none	118 - 53	JANM38510/30001BAA	none	95 - 26	JANM38510/30006BDB	NSC	96 - 26	JANM38510/30009CDB	NSC	97 - 27	JANM38510/30109BFB	MOTA	41 - 48
JANM38510/15202CEB	none	118 - 54	JANM38510/30001BAB	FSC	95 - 27	JANM38510/30006CAA	NSC	96 - 27	JANM38510/30009CDB	NSC	97 - 28	JANM38510/30109CEA	SIC	41 - 49
JANM38510/15202CFA	none	118 - 55	JANM38510/30001BAC	FSC	95 - 28	JANM38510/30006CAB	NSC	96 - 28	JANM38510/30009CDD	NSC	97 - 29	JANM38510/30109CEB	none	41 - 50
JANM38510/15202CFB	none	118 - 56	JANM38510/30001BCA	NSC	95 - 29	JANM38510/30006CAC	NSC	96 - 29	JANM38510/30101BCA	NSC	41 - 8	JANM38510/30109CFB	FSC	41 - 51
JANM38510/15203BEA	none	118 - 57	JANM38510/30001BCC	NSC	95 - 30	JANM38510/30006CCA	NSC	96 - 30	JANM38510/30101BCB	none	41 - 9	JANM38510/30109CFA	none	41 - 52
JANM38510/15203BEB	MOTA	118 - 58	JANM38510/30001BDA	NSC	95 - 31	JANM38510/30006CCB	none	96 - 31	JANM38510/30101BDB	TII	41 - 10	JANM38510/30109GFA	none	41 - 53
JANM38510/15203BFA	none	118 - 59	JANM38510/30001BDB	NSC	95 - 32	JANM38510/30006CCC	NSC	96 - 32	JANM38510/30101CCA	none	41 - 11	JANM38510/30109GFB	TII	41 - 54
JANM38510/15203BFB	MOTA	118 - 60	JANM38510/30001BDC	SIC	95 - 33	JANM38510/30006CDD	NSC	96 - 33	JANM38510/30101CCB	none	41 - 12	JANM38510/30109GFB	none	41 - 55
JANM38510/15203CEA	none	118 - 61	JANM38510/30001CAA	NSC	95 - 34	JANM38510/30006CDB	NSC	96 - 34	JANM38510/30101CDA	none	41 - 13	JANM38510/30109GFB	none	42 - 1
JANM38510/15203CEB	none	118 - 62	JANM38510/30001CAB	NSC	95 - 35	JANM38510/30007BAA	NSC	96 - 35	JANM38510/30102BAA	none	50 - 62	JANM38510/30109GFB	none	42 - 2
JANM38510/15203CFA	none	118 - 63	JANM38510/30001CAC	FSC	95 - 36	JANM38510/30007BAB	FSC	96 - 36	JANM38510/30102BAB	FSC	50 - 63	JANM38510/30301BAA	none	89 - 99
JANM38510/15203CFB	none	118 - 64	JANM38510/30001CAC	FSC	95 - 36	JANM38510/30007BAC	FSC	96 - 37	JANM38510/30102BAC	FSC	50 - 64	JANM38510/30301BAB	none	89 - 100
JANM38510/15206BEA	none	119 - 68	JANM38510/30001CCA	NSC	95 - 37	JANM38510/30007BCA	FSC	96 - 38	JANM38510/30102BCA	FSC	50 - 65	JANM38510/30301BAC	FSC	90 - 1
JANM38510/15206BEB	none	119 - 69	JANM38510/30001CCC	NSC	95 - 38	JANM38510/30007BCC	NSC	96 - 39	JANM38510/30102BCB	none	50 - 66	JANM38510/30301BAC	FSC	90 - 2
JANM38510/15206BFA	MOTA	119 - 70	JANM38510/30001CDA	NSC	95 - 39	JANM38510/30007BDB	NSC	96 - 40	JANM38510/30102BCD	FSC	50 - 67	JANM38510/30301BAC	SIC	90 - 3
JANM38510/15206BFB	none	119 - 71	JANM38510/30001CDB	NSC	95 - 40	JANM38510/30007BDB	NSC	96 - 41	JANM38510/30102BDA	SIC	50 - 68	JANM38510/30301BAC	SIC	90 - 4
JANM38510/15206CEA	MOTA	119 - 72	JANM38510/30001CDC	NSC	95 - 41	JANM38510/30007BDB	SIC	96 - 42	JANM38510/30102BDB	MOTA	50 - 69	JANM38510/30301BAC	SIC	90 - 5
JANM38510/15206CEB	none	119 - 73	JANM38510/30002BAA	NSC	95 - 42	JANM38510/30007BDC	NSC	96 - 43	JANM38510/30102CBA	none	50 - 70	JANM38510/30301BAC	SIC	90 - 6
JANM38510/15206CFA	none	119 - 74	JANM38510/30002BAB	NSC	95 - 43	JANM38510/30007CAA	NSC	96 - 44	JANM38510/30102CBB	FSC	50 - 71	JANM38510/30301BAC	SIC	90 - 7
JANM38510/15206CFB	none	119 - 75	JANM38510/30002BAC	NSC	95 - 44	JANM38510/30007CAB	FSC	96 - 45	JANM38510/30102CDB	FSC	50 - 72	JANM38510/30301BAC	SIC	90 - 8
JANM38510/15501BCA	none	79 - 20	JANM38510/30002BCA	NSC	95 - 45	JANM38510/30007CAC	FSC	96 - 46	JANM38510/30102CDA	none	50 - 73	JANM38510/30301BAC	SIC	90 - 9
JANM38510/15501BCB	none	79 - 21	JANM38510/30002BCB	NSC	95 - 46	JANM38510/30007CCA	NSC	96 - 47	JANM38510/30102CDB	FSC	50 - 74	JANM38510/30301BAC	SIC	90 - 10
JANM38510/15501BCD	MOTA	79 - 22	JANM38510/30002BCC	NSC	95 - 47	JANM38510/30007CDB	NSC	96 - 48	JANM38510/30102CDB	FSC	50 - 75	JANM38510/30301BAC	SIC	90 - 11
JANM38510/15501BCD	none	79 - 23	JANM38510/30002BCC	NSC	95 - 48	JANM38510/30007CDB	NSC	96 - 49	JANM38510/30102CDB	FSC	50 - 76	JANM38510/30301BAC	SIC	90 - 12
JANM38510/15502BCA	none	79 - 24	JANM38510/30002BDB	MOTA	95 - 49	JANM38510/30007CDB	NSC	96 - 50	JANM38510/30102CDB	FSC	50 - 77	JANM38510/30301BAC	SIC	90 - 13
JANM38510/15502BCB	none	79 - 25	JANM38510/30002BDC	NSC	95 - 50	JANM38510/30007CDB	NSC	96 - 51	JANM38510/30102CDB	FSC	50 - 78	JANM38510/30301BAC	SIC	90 - 14
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JANM38510/15502CCB	none	79 - 27	JANM38510/30002CAC	NSC	95 - 52	JANM38510/30008BAB	NSC	96 - 53	JANM38510/30102CDB	FSC	50 - 80	JANM38510/30301BAC	SIC	90 - 16
JANM38510/15503BCA	none	79 - 28	JANM38510/30002CCA	NSC	95 - 53	JANM38510/30008BAC	NSC	96 - 54	JANM38510/30102CDB	FSC	50 - 81	JANM38510/30301BAC	SIC	90 - 17
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JANM38510/15503CCB	none	79 - 31	JANM38510/30002CDA	NSC	96 - 1	JANM38510/30008BCC	NSC	96 - 57	JANM38510/30102CDB	FSC	50 - 84	JANM38510/30301BAC	SIC	90 - 20
JANM38510/15504BAA	none	79 - 32	JANM38510/30002CDC	NSC	96 - 2	JANM38510/30008BDB	NSC	96 - 58	JANM38510/30102CDB	FSC	50 - 85	JANM38510/30301BAC	SIC	90 - 21
JANM38510/15504BAB	none	79 - 33	JANM38510/30005BAA	NSC	96 - 3	JANM38510/30008BDC	NSC	96 - 59	JANM38510/30102CDB	FSC	50 - 86	JANM38510/30301BAC	SIC	90 - 22
JANM38510/15504CAB	MOTA	79 - 34	JANM38510/30005BAB	NSC	96 - 4	JANM38510/30008BDC	NSC	96 - 60	JANM38510/30102CDB	FSC	50 - 87	JANM38510/30301BAC	SIC	90 - 23
JANM38510/16101BCA	none	88 - 2	JANM38510/30005BAC	FSC	96 - 5	JANM38510/30008BDC	NSC	96 - 61	JANM38510/30102CDB	FSC	50 - 88	JANM38510/30301BAC	SIC	90 - 24
JANM38510/16101BCB	none	88 - 3	JANM38510/30005BAC	FSC	96 - 6	JANM38510/30008BDC	NSC	96 - 62	JANM38510/30102CDB	FSC	50 - 89	JANM38510/30301BAC	SIC	90 - 25
JANM38510/16101BCD	SIC	88 - 4	JANM38510/30005BCB	FSC	96 - 7	JANM38510/30008BDC	NSC	96 - 63	JANM38510/30102CDB	FSC	50 - 90	JANM38510/30301BAC	SIC	90 - 26
JANM38510/16101BDA	SIC	88 - 5	JANM38510/30005BCC	TII	96 - 8	JANM38510/30008BDC	NSC	96 - 64	JANM38510/30102CDB	FSC	50 - 91	JANM38510/30301BAC	SIC	90 - 27
JANM38510/16101BDB	SIC	88 - 6	JANM38510/30005BCC	TII	96 - 9	JANM38510/30008BDC	NSC	96 - 65	JANM38510/30102CDB	FSC	50 - 92	JANM38510/30301BAC	SIC	90 - 28
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JANM38510/16101CCB	none	88 - 8	JANM38510/30005BDB	MOTA	96 - 11	JANM38510/30008BDC	NSC	96 - 67	JANM38510/30102CDB	FSC	50 - 94	JANM38510/30301BAC	SIC	90 - 30
JANM38510/16101CDA	none	88 - 9	JANM38510/30005BDB	NSC	96 - 12	JANM38510/30008BDC	NSC	96 - 68	JANM38510/30102CDB	FSC	50 - 95	JANM38510/30301BAC	SIC	90 - 31
JANM38510/16101CDB	none	88 - 10	JANM38510/30005BDC	SIC	96 - 13	JANM38510/30008BDC	NSC	96 - 69	JANM38510/30102CDB	FSC	50 - 96	JANM38510/30301BAC	SIC	90 - 32
JANM38510/17001BCA	SSS	56 - 26	JANM38510/30005BDC	NSC	96 - 14	JANM38510/30008BDC	NSC	96 - 70	JANM38510/30102CDB	FSC	50 - 97	JANM38510/30301BAC	SIC	90 - 33
JANM38510/17002BCA	none	56 - 27	JANM38510/30005BDC	NSC	96 - 15	JANM38510/30008BDC	NSC	96 - 71	JANM38510/30102CDB	FSC	50 - 98	JANM38510/30301BAC	SIC	90 - 34
JANM38510/17002BCC	none	56 - 28	JANM38510/30005BDC	NSC	96 - 16	JANM38510/30008BDC	NSC	96 - 72	JANM38510/30102CDB	FSC	50 - 99	JANM38510/30301BAC	SIC	90 - 35
JANM38510/17003BCA	none	56 - 29	JANM38510/30005BDC	NSC	96 - 17	JANM38510/30008BDC	NSC	96 - 73	JANM38510/30102CDB	FSC	50 - 100	JANM38510/30301BAC	SIC	90 - 36
JANM38510/17003BCC	none	56 - 30	JANM38510/30005BDC	NSC	96 - 18	JANM38510/30008BDC	NSC	96 - 74	JANM38510/30102CDB	FSC	50 - 101	JANM38510/30301BAC	SIC	90 - 37

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IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
JANM38510/30303BDB	SIC	114 - 94	JANM38510/30501CCB	FSC	87 - 63	JANM38510/31002BCC	NSC	76 - 36	JANM38510/31201CEB	FSC	162 - 3	JANM38510/32004CCB	none	147 - 71
JANM38510/30303CCA	NSC	114 - 95	JANM38510/30501CCC	NSC	87 - 64	JANM38510/31002BDA	NSC	76 - 37	JANM38510/31201CFA	none	162 - 4	M40160BP	MITJ	129 - 71
JANM38510/30303CCB	NSC	114 - 96	JANM38510/30501CDA	NSC	87 - 65	JANM38510/31002BDB	NSC	76 - 38	JANM38510/31201CFB	none	162 - 5	M40161BP	MITJ	132 - 6
JANM38510/30303CCC	NSC	114 - 97	JANM38510/30501CDB	NSC	87 - 66	JANM38510/31002BDC	NSC	76 - 39	JANM38510/31202BEA	FSC	162 - 6	M40162BP	MITJ	129 - 72
JANM38510/30303CDA	NSC	114 - 98	JANM38510/30501CDC	NSC	87 - 67	JANM38510/31002CAA	NSC	76 - 40	JANM38510/31202BEB	none	162 - 7	M40163BP	MITJ	132 - 7
JANM38510/30303CDB	none	114 - 99	JANM38510/30502BAA	none	111 - 28	JANM38510/31002CAB	NSC	76 - 41	JANM38510/31202BEA	none	162 - 8	M40174BP	MITJ	36 - 7
JANM38510/30401BAA	NSC	81 - 78	JANM38510/30502BAB	none	111 - 29	JANM38510/31002CAC	NSC	76 - 42	JANM38510/31202BEB	none	162 - 9	M40175BP	MITJ	36 - 8
JANM38510/30401BAB	NSC	81 - 79	JANM38510/30502BAC	NSC	111 - 30	JANM38510/31002CACC	NSC	76 - 43	JANM38510/31202BFA	FSC	162 - 10	M51841P	MITJ	127 - 43
JANM38510/30401BAC	NSC	81 - 80	JANM38510/30502BACA	NSC	111 - 31	JANM38510/31002CCB	none	76 - 44	JANM38510/31202BFB	none	162 - 11	M53200P	MITJ	104 - 11
JANM38510/30401BCA	NSC	81 - 81	JANM38510/30502BCB	MOTA	111 - 32	JANM38510/31002CCC	NSC	76 - 45	JANM38510/31202BFC	none	162 - 12	M53201P	MITJ	104 - 12
JANM38510/30401BCB	NSC	81 - 82	JANM38510/30502BCC	SIC	111 - 33	JANM38510/31002CCD	NSC	76 - 46	JANM38510/31202BFD	none	162 - 13	M53202P	MITJ	92 - 5
JANM38510/30401BCC	NSC	81 - 83	JANM38510/30502BDA	NSC	111 - 34	JANM38510/31002CCD	NSC	76 - 47	JANM38510/31202BFE	none	162 - 14	M53203P	MITJ	104 - 13
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JANM38510/30401BDC	NSC	81 - 85	JANM38510/30502BDD	MOTA	111 - 36	JANM38510/31002CDB	NSC	76 - 49	JANM38510/31202BFG	none	162 - 16	M53205P	MITJ	104 - 14
JANM38510/30401CAA	NSC	81 - 86	JANM38510/30502BDD	SIC	111 - 37	JANM38510/31002CDB	NSC	76 - 50	JANM38510/31202BFG	none	162 - 17	M53206P	MITJ	110 - 74
JANM38510/30401CAB	NSC	81 - 87	JANM38510/30502BDC	NSC	111 - 38	JANM38510/31002CDB	NSC	76 - 51	JANM38510/31202BFG	none	162 - 18	M53207P	MITJ	104 - 15
JANM38510/30401CAC	NSC	81 - 88	JANM38510/30502BDC	NSC	111 - 39	JANM38510/31002CDB	NSC	76 - 52	JANM38510/31202BFG	none	162 - 19	M53208P	MITJ	92 - 6
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JANM38510/30401CCC	NSC	81 - 91	JANM38510/30502BDC	NSC	111 - 42	JANM38510/31002CDB	NSC	76 - 55	JANM38510/31202BFG	none	162 - 22	M53211P	MITJ	104 - 17
JANM38510/30401CDA	NSC	81 - 92	JANM38510/30502BDC	NSC	111 - 43	JANM38510/31002CDB	NSC	76 - 56	JANM38510/31202BFG	none	162 - 23	M53212P	MITJ	104 - 18
JANM38510/30401CDB	NSC	81 - 93	JANM38510/30502BDC	NSC	111 - 44	JANM38510/31002CDB	NSC	76 - 57	JANM38510/31202BFG	none	162 - 24	M53213P	MITJ	104 - 19
JANM38510/30401CDC	NSC	82 - 1	JANM38510/30502BDC	NSC	111 - 45	JANM38510/31002CDB	NSC	76 - 58	JANM38510/31202BFG	none	162 - 25	M53214P	MITJ	116 - 22
JANM38510/30402BAA	NSC	82 - 2	JANM38510/30703BEA	NSC	119 - 76	JANM38510/31002CDB	NSC	76 - 59	JANM38510/31202BFG	none	162 - 26	M53215P	MITJ	116 - 23
JANM38510/30402BAB	NSC	82 - 3	JANM38510/30703BEB	NSC	119 - 77	JANM38510/31002CDB	NSC	76 - 60	JANM38510/31202BFG	none	162 - 27	M53216P	MITJ	116 - 30
JANM38510/30402BAC	NSC	82 - 4	JANM38510/30703BEB	MOTA	119 - 78	JANM38510/31002CDB	NSC	76 - 61	JANM38510/31202BFG	none	162 - 28	M53217P	MITJ	116 - 31
JANM38510/30402BAC	NSC	82 - 5	JANM38510/30703BEB	SIC	119 - 79	JANM38510/31002CDB	NSC	76 - 62	JANM38510/31202BFG	none	162 - 29	M53218P	MITJ	119 - 83
JANM38510/30402BAC	NSC	82 - 6	JANM38510/30703BEB	TII	119 - 80	JANM38510/31002CDB	NSC	76 - 63	JANM38510/31202BFG	none	162 - 30	M53219P	MITJ	86 - 6
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JANM38510/30402BAC	NSC	82 - 9	JANM38510/30703BEB	NSC	119 - 83	JANM38510/31002CDB	NSC	76 - 66	JANM38510/31202BFG	none	162 - 33	M53222P	MITJ	49 - 66
JANM38510/30402BAC	NSC	82 - 10	JANM38510/30703BEB	NSC	119 - 84	JANM38510/31002CDB	NSC	76 - 67	JANM38510/31202BFG	none	162 - 34	M53223P	MITJ	49 - 67
JANM38510/30402BAC	NSC	82 - 11	JANM38510/30703BEB	NSC	119 - 85	JANM38510/31002CDB	NSC	76 - 68	JANM38510/31202BFG	none	162 - 35	M53224P	MITJ	45 - 13
JANM38510/30402BAC	NSC	82 - 12	JANM38510/30703BEB	NSC	119 - 86	JANM38510/31002CDB	NSC	76 - 69	JANM38510/31202BFG	none	162 - 36	M53225P	MITJ	52 - 41
JANM38510/30402BAC	NSC	82 - 13	JANM38510/30703BEB	NSC	119 - 87	JANM38510/31002CDB	NSC	76 - 70	JANM38510/31202BFG	none	162 - 37	M53226P	MITJ	177 - 67
JANM38510/30402BAC	NSC	82 - 14	JANM38510/30703BEB	NSC	119 - 88	JANM38510/31002CDB	NSC	76 - 71	JANM38510/31202BFG	none	162 - 38	M53227P	MITJ	45 - 14
JANM38510/30402BAC	NSC	82 - 15	JANM38510/30703BEB	NSC	119 - 89	JANM38510/31002CDB	NSC	76 - 72	JANM38510/31202BFG	none	162 - 39	M53228P	MITJ	166 - 25
JANM38510/30402BAC	NSC	82 - 16	JANM38510/30703BEB	NSC	119 - 90	JANM38510/31002CDB	NSC	76 - 73	JANM38510/31202BFG	none	162 - 40	M53229P	MITJ	112 - 28
JANM38510/30402BAC	NSC	82 - 17	JANM38510/30703BEB	NSC	119 - 91	JANM38510/31002CDB	NSC	76 - 74	JANM38510/31202BFG	none	162 - 41	M53230P	MITJ	143 - 58
JANM38510/30402BAC	NSC	82 - 18	JANM38510/30703BEB	NSC	119 - 92	JANM38510/31002CDB	NSC	76 - 75	JANM38510/31202BFG	none	162 - 42	M53231P	MITJ	150 - 14
JANM38510/30402BAC	NSC	82 - 19	JANM38510/30703BEB	NSC	119 - 93	JANM38510/31002CDB	NSC	76 - 76	JANM38510/31202BFG	none	162 - 43	M53232P	MITJ	150 - 15
JANM38510/30402BAC	NSC	82 - 20	JANM38510/30703BEB	NSC	119 - 94	JANM38510/31002CDB	NSC	76 - 77	JANM38510/31202BFG	none	162 - 44	M53233P	MITJ	45 - 15
JANM38510/30501BAA	NSC	87 - 50	JANM38510/31001CAA	NSC	76 - 13	JANM38510/31002CDB	NSC	76 - 78	JANM38510/31202BFG	none	162 - 45	M53234P	MITJ	127 - 57
JANM38510/30501BAB	NSC	87 - 51	JANM38510/31001CAB	NSC	76 - 14	JANM38510/31002CDB	NSC	76 - 79	JANM38510/31202BFG	none	162 - 46	M53235P	MITJ	124 - 50
JANM38510/30501BAC	NSC	87 - 52	JANM38510/31001CAB	NSC	76 - 15	JANM38510/31002CDB	NSC	76 - 80	JANM38510/31202BFG	none	162 - 47	M53236P	MITJ	124 - 55
JANM38510/30501BCA	NSC	87 - 53	JANM38510/31001CAB	NSC	76 - 16	JANM38510/31002CDB	NSC	76 - 81	JANM38510/31202BFG	none	162 - 48	M53237P	MITJ	120 - 1
JANM38510/30501BCB	NSC	87 - 54	JANM38510/31001CAB	NSC	76 - 17	JANM38510/31002CDB	NSC	76 - 82	JANM38510/31202BFG	none	162 - 49	M53238P	MITJ	116 - 14
JANM38510/30501BCC	NSC	87 - 55	JANM38510/31001CAB	NSC	76 - 18	JANM38510/31002CDB	NSC	76 - 83	JANM38510/31202BFG	none	162 - 50	M53239P	MITJ	116 - 15
JANM38510/30501BDA	NSC	87 - 56	JANM38510/31001CAB	NSC	76 - 19	JANM38510/31002CDB	NSC	76 - 84	JANM38510/31202BFG	none	162 - 51	M53240P	MITJ	116 - 16
JANM38510/30501BDB	NSC	87 - 57	JANM38510/31001CAB	NSC	76 - 20	JANM38510/31002CDB	NSC	76 - 85	JANM38510/31202BFG	none	162 - 52	M53241P	MITJ	141 - 35
JANM38510/30501BDC	NSC	87 - 58	JANM38510/31001CAB	NSC	76 - 21	JANM38510/31002CDB	NSC	76 - 86	JANM38510/31202BFG	none	162 - 53	M53242P	MITJ	146 - 72
JANM38510/30501CAA	NSC	87 - 59	JANM38510/31001CAB	NSC	76 - 22	JANM38510/31002CDB	NSC	76 - 87	JANM38510/31202BFG	none	162 - 54	M53243P	MITJ	141 - 36
JANM38510/30501CAB	NSC	87 - 60	JANM38510/31001CAB	NSC	76 - 23	JANM38510/31002CDB	NSC	76 - 88	JANM38510/31202BFG	none	162 - 55	M53244P	MITJ	146 - 73
JANM38510/30501CAC	NSC	87 - 61	JANM38510/31001CAB	NSC	76 - 24	JANM38510/31002CDB	NSC	76 - 89	JANM38510/31202BFG	none	162 - 56	M53245P	MITJ	173 - 47
JANM38510/30501CCA	NSC	87 - 62	JANM38510/31001CAB	NSC	76 - 25	JANM38510/31002CDB	NSC	76 - 90	JANM38510/31202BFG	none	162 - 57	M53246P	MITJ	169 - 32
JANM38510/30501CCB	NSC	87 - 63	JANM38510/31001CAB	NSC	76 - 26	JANM38510/31002CDB	NSC	76 - 91	JANM38510/31202BFG	none	162 - 58	M53247P	MITJ	170 - 82
JANM38510/30501CCD	NSC	87 - 64	JANM38510/31001CAB	NSC	76 - 27	JANM38510/31002CDB	NSC	76 - 92	JANM38510/31202BFG	none	162 - 59	M53248P	MITJ	141 - 37
JANM38510/30501CDB	NSC	87 - 65	JANM38510/31001CAB	NSC	76 - 28	JANM38510/31002CDB	NSC	76 - 93	JANM38510/31202BFG	none	162 - 60	M53249P	MITJ	146 - 74
JANM38510/30501CDD	NSC	87 - 66	JANM38510/31001CAB	NSC	76 - 29	JANM38510/31002CDB	NSC	76 - 94	JANM38510/31202BFG	none	162 - 61	M53250P	MITJ	139 - 84
JANM38510/30501CDB	NSC	87 - 67	JANM38510/31001CAB	NSC	76 - 30	J								

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TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
MB74LS33M	FCAJ	92 - 15	MB4116M	FCAJ	104 - 55	MB84017B	FCAJ	137 - 91	MC54F86N(A)	♦MOTA	112 - 38	MC74F10J(A)	♦MOTA	75 - 86
MB74LS37	FCAJ	104 - 38	MB4117	FCAJ	92 - 16	MB84017BM	FCAJ	137 - 92	MC54F109J(A)	♦MOTA	47 - 36	MC74F10N(A)	♦MOTA	75 - 87
MB74LS37M	FCAJ	104 - 39	MB4117M	FCAJ	92 - 17	MB84019B	FCAJ	56 - 54	MC54F109N(A)	♦MOTA	47 - 37	MC74F11J(A)	♦MOTA	75 - 68
MB74LS38	FCAJ	104 - 40	MB420	FCAJ	52 - 48	MB84019BM	FCAJ	56 - 55	MC54F138J(A)	♦MOTA	118 - 5	MC74F11N(A)	♦MOTA	75 - 69
MB74LS38M	FCAJ	104 - 41	MB420M	FCAJ	52 - 49	MB84020B	FCAJ	133 - 61	MC54F138N(A)	♦MOTA	118 - 6	MC74F20J(A)	♦MOTA	75 - 88
MB74LS40	FCAJ	104 - 42	MB430	FCAJ	174 - 2	MB84020BM	FCAJ	133 - 62	MC54F139J(A)	♦MOTA	118 - 1	MC74F20N(A)	♦MOTA	75 - 89
MB74LS40M	FCAJ	104 - 43	MB430M	FCAJ	174 - 3	MB84022B	FCAJ	137 - 104	MC54F139N(A)	♦MOTA	118 - 2	MC74F32J(A)	♦MOTA	75 - 72
MB74LS42	FCAJ	121 - 62	MB431	FCAJ	104 - 56	MB84022BM	FCAJ	137 - 105	MC54F175J(A)	♦MOTA	53 - 71	MC74F32N(A)	♦MOTA	75 - 73
MB74LS42M	FCAJ	121 - 63	MB431M	FCAJ	104 - 57	MB84023B	FCAJ	63 - 82	MC54F175N(A)	♦MOTA	53 - 72	MC74F64J(A)	♦MOTA	87 - 40
MB74LS51	FCAJ	86 - 8	MB433	FCAJ	104 - 58	MB84023BM	FCAJ	63 - 83	MC54F181J(A)	♦MOTA	168 - 94	MC74F64N(A)	♦MOTA	87 - 41
MB74LS51M	FCAJ	86 - 9	MB433M	FCAJ	104 - 59	MB84025B	FCAJ	60 - 62	MC54F181N(A)	♦MOTA	168 - 95	MC74F74J(A)	♦MOTA	53 - 75
MB74LS54	FCAJ	86 - 10	MB435	FCAJ	104 - 60	MB84025BM	FCAJ	60 - 63	MC54F182J(A)	♦MOTA	170 - 51	MC74F74N(A)	♦MOTA	53 - 76
MB74LS54M	FCAJ	86 - 11	MB435M	FCAJ	104 - 61	MB84027B	FCAJ	34 - 57	MC54F182N(A)	♦MOTA	170 - 52	MC74F86J(A)	♦MOTA	112 - 40
MB74LS55	FCAJ	86 - 12	MB440	FCAJ	124 - 69	MB84027BM	FCAJ	34 - 58	MC54F190J(A)	♦MOTA	143 - 10	MC74F86N(A)	♦MOTA	112 - 40
MB74LS55M	FCAJ	86 - 13	MB440M	FCAJ	124 - 70	MB84028B	FCAJ	117 - 25	MC54F190N(A)	♦MOTA	143 - 11	MC74F109J(A)	♦MOTA	47 - 38
MB74LS73A	FCAJ	45 - 16	MB442	FCAJ	116 - 24	MB84028BM	FCAJ	117 - 26	MC54F191J(A)	♦MOTA	149 - 50	MC74F109N(A)	♦MOTA	47 - 39
MB74LS73AM	FCAJ	45 - 17	MB442M	FCAJ	116 - 25	MB84029B	FCAJ	130 - 79	MC54F191N(A)	♦MOTA	149 - 51	MC74F138J(A)	♦MOTA	118 - 7
MB74LS74A	FCAJ	52 - 42	MB443	FCAJ	116 - 26	MB84029BM	FCAJ	130 - 80	MC54F283J(A)	♦MOTA	160 - 38	MC74F138N(A)	♦MOTA	118 - 8
MB74LS74AM	FCAJ	52 - 43	MB443M	FCAJ	116 - 27	MB84040B	FCAJ	133 - 63	MC54F283N(A)	♦MOTA	160 - 39	MC74F139J(A)	♦MOTA	118 - 3
MB74LS76A	FCAJ	45 - 18	MB447	FCAJ	172 - 67	MB84040BM	FCAJ	133 - 64	MC54F374J(A)	♦MOTA	53 - 73	MC74F139N(A)	♦MOTA	118 - 4
MB74LS76AM	FCAJ	45 - 19	MB447M	FCAJ	172 - 68	MB84060B	FCAJ	132 - 31	MC54F374N(A)	♦MOTA	53 - 74	MC74F175J(A)	♦MOTA	53 - 77
MB74LS78	FCAJ	45 - 20	MB448	FCAJ	166 - 1	MB84060BM	FCAJ	132 - 32	MC54F521J(A)	♦MOTA	165 - 93	MC74F175N(A)	♦MOTA	53 - 78
MB74LS78AM	FCAJ	45 - 21	MB448M	FCAJ	166 - 2	MB84068B	FCAJ	63 - 84	MC54F521N(A)	♦MOTA	165 - 94	MC74F181J(A)	♦MOTA	168 - 92
MB74LS83A	FCAJ	161 - 42	MB449	FCAJ	112 - 35	MB84068BM	FCAJ	63 - 85	MC54F533J(A)	♦MOTA	179 - 79	MC74F181N(A)	♦MOTA	168 - 93
MB74LS83AM	FCAJ	161 - 43	MB449M	FCAJ	112 - 36	MB84070B	FCAJ	65 - 40	MC54F533N(A)	♦MOTA	179 - 80	MC74F182J(A)	♦MOTA	170 - 49
MB74LS85	FCAJ	166 - 61	MB450	FCAJ	147 - 87	MB84070BM	FCAJ	65 - 41	MC54HC00J#mil	♦MOTA	64 - 92	MC74F182N(A)	♦MOTA	170 - 50
MB74LS85M	FCAJ	166 - 62	MB450M	FCAJ	147 - 88	MB84071B	FCAJ	58 - 2	MC54HC02J#mil	♦MOTA	61 - 57	MC74F190J(A)	♦MOTA	143 - 12
MB74LS86	FCAJ	112 - 29	MB451	FCAJ	142 - 16	MB84071BM	FCAJ	58 - 3	MC54HC03J(A)	♦MOTA	61 - 107	MC74F190N(A)	♦MOTA	143 - 13
MB74LS86M	FCAJ	112 - 30	MB451M	FCAJ	142 - 17	MB84072B	FCAJ	58 - 4	MC54HC08BCAJ(A)	♦MOTA	55 - 41	MC74F191J(A)	♦MOTA	149 - 52
MB74LS107	FCAJ	45 - 22	MB456	FCAJ	147 - 89	MB84072BM	FCAJ	58 - 5	MC54HC08BCAN(A)	♦MOTA	55 - 42	MC74F191N(A)	♦MOTA	149 - 53
MB74LS107A	FCAJ	45 - 23	MB456M	FCAJ	147 - 90	MB84073B	FCAJ	55 - 82	MC54HC08BCAN(A)	♦MOTA	55 - 42	MC74F233J(A)	♦MOTA	160 - 37
MB74LS107AM	FCAJ	45 - 24	MB457	FCAJ	142 - 18	MB84073BM	FCAJ	55 - 83	MC54HC10J#mil	♦MOTA	64 - 93	MC74F374N(A)	♦MOTA	53 - 80
MB74LS107M	FCAJ	45 - 25	MB457M	FCAJ	142 - 19	MB84075B	FCAJ	58 - 6	MC54HC10J#mil	♦MOTA	64 - 93	MC74F521J(A)	♦MOTA	165 - 99
MB74LS109A	FCAJ	45 - 26	MB458	FCAJ	168 - 83	MB84075BM	FCAJ	58 - 7	MC54HC20J(A)	♦MOTA	61 - 108	MC74F521N(A)	♦MOTA	165 - 100
MB74LS109AM	FCAJ	45 - 27	MB458M	FCAJ	168 - 84	MB84077B	FCAJ	65 - 95	MC54HC22J(A)	♦MOTA	58 - 74	MC74F533J(A)	♦MOTA	179 - 59
MB74LS112A	FCAJ	45 - 28	MB459	FCAJ	170 - 56	MB84077BM	FCAJ	65 - 96	MC54HC42J(A)	♦MOTA	117 - 27	MC74F2960J(A)	♦MOTA	182 - 52
MB74LS112AM	FCAJ	45 - 29	MB459M	FCAJ	170 - 57	MB84078B	FCAJ	60 - 64	MC54HC51J(A)	♦MOTA	57 - 2	MC74HC00J#ai	♦MOTA	64 - 94
MB74LS113A	FCAJ	45 - 30	MB601	FCAJ	104 - 62	MB84078BM	FCAJ	60 - 65	MC54HC58J(A)	♦MOTA	34 - 89	MC74HC00N#ai	♦MOTA	64 - 95
MB74LS113AM	FCAJ	45 - 31	MB602	FCAJ	104 - 63	MB84081B	FCAJ	55 - 84	MC54HC73J(A)	♦MOTA	36 - 48	MC74HC02J#ai	♦MOTA	61 - 59
MB74LS114A	FCAJ	45 - 32	MB603	FCAJ	104 - 64	MB84081BM	FCAJ	55 - 85	MC54HC74J(A)	♦MOTA	174 - 11	MC74HC02N#ai	♦MOTA	61 - 60
MB74LS114AM	FCAJ	45 - 33	MB604	FCAJ	104 - 65	MB84082B	FCAJ	55 - 86	MC54HC75J(A)	♦MOTA	34 - 90	MC74HC03J(A)	♦MOTA	61 - 109
MB74LS122	FCAJ	126 - 37	MB605	FCAJ	104 - 66	MB84082BM	FCAJ	55 - 87	MC54HC85J(A)	♦MOTA	165 - 23	MC74HC03N(A)	♦MOTA	61 - 110
MB74LS122M	FCAJ	126 - 38	MB606	FCAJ	86 - 17	MB84518B	FCAJ	130 - 25	MC54HC86J#mil	♦MOTA	65 - 79	MC74HC08BCAJ(A)	♦MOTA	55 - 43
MB74LS123	FCAJ	126 - 39	MB607	FCAJ	113 - 94	MB84518BM	FCAJ	130 - 26	MC54HC107J(A)	♦MOTA	138 - 91	MC74HC08BCAN(A)	♦MOTA	55 - 44
MB74LS123M	FCAJ	126 - 40	MB609	FCAJ	45 - 38	MB84520B	FCAJ	133 - 34	MC54HC109J(A)	♦MOTA	138 - 92	MC74HC10J#ai	♦MOTA	64 - 96
MB74LS136	FCAJ	112 - 31	MB613	FCAJ	86 - 18	MB84520BM	FCAJ	133 - 35	MC54HC112J(A)	♦MOTA	71 - 24	MC74HC10N#ai	♦MOTA	55 - 2
MB74LS136M	FCAJ	112 - 32	MB614	FCAJ	79 - 46	MB84524B	FCAJ	133 - 36	MC54HC12J(A)	♦MOTA	71 - 25	MC74HC20J(A)	♦MOTA	62 - 2
MB74LS138	FCAJ	121 - 77	MB618	FCAJ	45 - 39	MB84524BM	FCAJ	133 - 37	MC54HC138J(A)	♦MOTA	117 - 54	MC74HC20N(A)	♦MOTA	58 - 75
MB74LS138M	FCAJ	121 - 78	MB10101	FCAJ	73 - 19	MC10H016(A)	♦MOTA	138 - 91	MC54HC139J(A)	♦MOTA	71 - 17	MC74HC27J(A)	♦MOTA	58 - 76
MB74LS139	FCAJ	121 - 39	MB10101M	FCAJ	73 - 20	MC10H016P(A)	♦MOTA	138 - 92	MC54HC160J#mil	♦MOTA	70 - 97	MC74HC42N(A)	♦MOTA	117 - 29
MB74LS139M	FCAJ	121 - 40	MB10102	FCAJ	74 - 6	MC10H016P(A)	♦MOTA	138 - 92	MC54HC161J#mil	♦MOTA	70 - 98	MC74HC51J(A)	♦MOTA	57 - 3
MB74LS145	FCAJ	121 - 64	MB10102M	FCAJ	74 - 7	MC10H100(A)	♦MOTA	183 - 3	MC54HC162J#mil	♦MOTA	71 - 53	MC74HC51N(A)	♦MOTA	57 - 4
MB74LS145M	FCAJ	120 - 2	MB10103	FCAJ	72 - 27	MC10H100P(A)	♦MOTA	183 - 4	MC54HC174J(A)	♦MOTA	71 - 54	MC74HC58J(A)	♦MOTA	56 - 58
MB74LS155	FCAJ	121 - 41	MB10103M	FCAJ	72 - 28	MC10H101(A)	♦MOTA	183 - 5	MC54HC175J(A)	♦MOTA	71 - 54	MC74HC58N(A)	♦MOTA	56 - 59
MB74LS155M	FCAJ	121 - 42	MB10104	FCAJ	71 - 107	MC10H102(A)	♦MOTA	183 - 6	MC54HC181J(A)	♦MOTA	71 - 73	MC74HC73J(A)	♦MOTA	34 - 93
MB74LS156	FCAJ	121 - 43	MB10104M	FCAJ	71 - 108	MC10H102P(A)	♦MOTA	183 - 7	MC54HC181J(A)	♦MOTA	71 - 74	MC74HC73N(A)	♦MOTA	34 - 94
MB74LS156M	FCAJ	121 - 44	MB10105	FCAJ	73 - 21	MC10H103(A)	♦MOTA	183 - 8	MC54HC182J#mil	♦MOTA	71 - 90	MC74HC74J(A)	♦MOTA	36 - 54
MB74LS160A	FCAJ	141 - 38	MB10105M	FCAJ	73 - 22	MC10H103P(A)	♦MOTA	183 - 9	MC54HC182J#mil	♦MOTA	71 - 91	MC74HC74N(A)	♦MOTA	36 - 55
MB74LS160AM	FCAJ	141 - 39	MB10106	FCAJ	74 - 8	MC10H104(A)	♦MOTA	183 - 10	MC54HC186J#mil	♦MOTA	71 - 56	MC74HC75J(A)	♦MOTA	174 - 12
MB74LS161A	FCAJ	141 - 40	MB10106M	FCAJ	74 - 9	MC10H104P(A)	♦MOTA	183 - 3	MC54HC266J#mil	♦MOTA	55 - 1	MC74HC75N(A)	♦MOTA	174 - 13
MB74LS161AM	FCAJ	141 - 41	MB10107	FCAJ	74 - 72	MC10H105(A)	♦MOTA	183 - 4	MC54HC273J(A)	♦MOTA	36 - 51	MC74HC76J(A)	♦MOTA	34 - 95
MB74LS162A	FCAJ	141 - 42	MB10107M	FCAJ	74 - 73	MC10H105P(A)	♦MOTA	183 - 5	MC54HC280J(A)	♦MOTA	172 - 3	MC74HC76N(A)	♦MOTA	34 - 96
MB74LS162AM	FCAJ	141 - 43	MB10109	FCAJ	73 - 23	MC10H106(A)	♦MOTA	183 - 6	MC54HC374J(A)	♦MOTA	36 - 52	MC74HC85J(A)	♦MOTA	165 - 24
MB74LS163A	FCAJ	146 - 75	MB10109M	FCAJ	73 - 24	MC10H106P(A)	♦MOTA	183 - 7	MC54HC390J(A)	♦MOTA	170 - 25	MC74HC85N(A)	♦MOTA	165 - 25
MB74LS163AM	FCAJ	146 - 76	MB10110	FCAJ	72 - 29	MC10H107(A)	♦MOTA	183 - 8	MC54HC393J(A)	♦MOTA	170 - 26	MC74HC86J#ai	♦MOTA	65 - 80
MB74LS174	FCAJ	52 - 44	MB10110M	FCAJ	72 - 30	MC10H107P(A)	♦MOTA	183 - 9	MC54HC402J(A)	♦MOTA	75 - 79	MC74HC86N#ai	♦MOTA	65 - 81
MB74LS174M	FCAJ	52 - 45	MB10111	FCAJ	74 - 10	MC10H109(A)	♦MOTA	183 - 10	MC54HC404J(A)	♦MOTA	75 - 80	MC74HC107J(A)	♦MOTA	34 - 97
MB74LS175	FCAJ	52 - 46	MB10111M	FCAJ	74 - 11	MC10H109P(A)	♦MOTA	183 - 11	MC54HC404J(A)	♦MOTA	75 - 81	MC74HC107		

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MC74HC175N(A)	✦MOTA	36-59	MC857L,P%	MOTA	69-15	MC1914F	✦MOTA	176-43	MC8501P	✦MOTA	182-56
			MC858L,P%	MOTA	69-16	MC1914L	✦MOTA	176-44	MC8502L	✦MOTA	182-57
MC74HC266J#ai	✦MOTA	66-11	MC861L,P%	MOTA	69-12	MC1918F	✦MOTA	68-9	MC8502P	MOTA	182-60
			MC862L,P%	MOTA	69-13	MC1918L	✦MOTA	68-10	MC8503L	✦MOTA	182-12
MC74HC266N#ai	✦MOTA	66-12	MC863L,P%	MOTA	69-14	MC3001L,P%	MOTA	81-27	MC8503P	✦MOTA	182-21
			MC930L	MOTA	68-89	MC3002L,P%	MOTA	93-36	MC8504P	✦MOTA	182-22
MC74HC273J(A)	✦MOTA	36-60	MC932L	MOTA	68-90	MC3021L,P%	MOTA	113-8	MC8506L	✦MOTA	182-13
			MC933L	MOTA	70-79	MC3022L,P%	MOTA	115-20	MC8506P	✦MOTA	182-14
MC74HC273N(A)	✦MOTA	36-61	MC938L	MOTA	138-70	MC3025L,P%	✦MOTA	108-98	MC10100L	MOTA	74-14
			MC939L	MOTA	138-85	MC3026L,P%	✦MOTA	81-32	MC10100P	MOTA	74-15
MC74HC280J(A)	✦MOTA	172-4	MC944L	MOTA	68-91	MC3060L,P%	MOTA	54-49	MC10101L	✦MOTA	73-29
			MC945L	MOTA	38-101	MC3061L,P%	MOTA	47-54	MC10101P	✦MOTA	73-30
MC74HC280N(A)	✦MOTA	172-5	MC946L	MOTA	68-92	MC3062L,P%	MOTA	47-55	MC10102L	✦MOTA	74-16
			MC948L	MOTA	38-104	MC3101F	✦MOTA	81-28	MC10102P	✦MOTA	74-17
MC74HC373J#ai	✦MOTA	176-29	MC949L	MOTA	69-1	MC3101L	✦MOTA	81-29	MC10103L	✦MOTA	73-57
			MC950L	MOTA	38-77	MC3102F	✦MOTA	93-37	MC10103P	✦MOTA	73-58
MC74HC373N#ai	✦MOTA	176-30	MC951L	MOTA	122-103	MC3102L	✦MOTA	93-38	MC10104L	✦MOTA	71-109
			MC952L	MOTA	38-5	MC3121F	MOTA	113-6	MC10104P	✦MOTA	71-110
MC74HC374J(A)	✦MOTA	36-62	MC953L	MOTA	38-6	MC3121L	MOTA	113-7	MC10105L	✦MOTA	73-31
			MC955L	MOTA	38-7	MC3122F	MOTA	115-18	MC10105P	✦MOTA	73-32
MC74HC374N(A)	✦MOTA	36-63	MC956L	MOTA	38-8	MC3122L	MOTA	115-19	MC10106L	✦MOTA	74-18
			MC957L	MOTA	69-17	MC3122F	✦MOTA	81-30	MC10106P	✦MOTA	74-19
MC74HC390J(A)	✦MOTA	134-88	MC958L	MOTA	69-18	MC3128L	✦MOTA	81-31	MC10107L	✦MOTA	74-74
			MC961L	MOTA	69-2	MC3160F	✦MOTA	54-41	MC10107P	✦MOTA	74-75
MC74HC390N(A)	✦MOTA	134-89	MC962L	✦MOTA	69-3	MC3160L	✦MOTA	54-42	MC10109L	✦MOTA	73-33
			MC963L	✦MOTA	69-4	MC3161F	✦MOTA	47-49	MC10109P	✦MOTA	73-34
MC74HC393J(A)	✦MOTA	134-90	MC1422P1	✦MOTA	122-5	MC3161L	✦MOTA	47-50	MC10110L	✦MOTA	72-33
			MC1455G	✦MOTA	127-31	MC3162F	✦MOTA	47-51	MC10110P	✦MOTA	72-34
MC74HC393N(A)	✦MOTA	134-91	MC1455P1	✦MOTA	127-32	MC3162L	✦MOTA	47-52	MC10111L	✦MOTA	74-20
			MC1455U	✦MOTA	127-33	MC3393P	✦MOTA	158-1	MC10111P	✦MOTA	74-21
MC74HC533J#ai	✦MOTA	176-31	MC1555G	✦MOTA	127-34	MC3396P	✦MOTA	156-6	MC10113L	✦MOTA	74-58
			MC1555U	✦MOTA	127-35	MC3456L#1	✦MOTA	154-102	MC10113P	✦MOTA	74-59
MC74HC533N#ai	✦MOTA	176-32	MC1648F#1	✦MOTA	154-75	MC3456L#2	✦MOTA	127-29	MC10117L	✦MOTA	72-79
			MC1648F#2	✦MOTA	154-76	MC3456P#1	✦MOTA	154-103	MC10117P	✦MOTA	72-80
MC74HC534J(A)	✦MOTA	36-64	MC1648L,P#1%	✦MOTA	154-77	MC3456P#2	✦MOTA	127-30	MC10118L	✦MOTA	72-80
			MC1648L,P#2%	✦MOTA	154-78	MC3482AL	MOTA	180-52	MC10118P	✦MOTA	72-63
MC74HC534N(A)	✦MOTA	36-65	MC1648ML,P#1%	✦MOTA	154-79	MC3482BL	MOTA	180-24	MC10119L	✦MOTA	72-64
						MC3556L#1	✦MOTA	154-104	MC10119P	✦MOTA	72-65
MC74HC4002J#ai	✦MOTA	61-61	MC1648ML,P#2%	✦MOTA	154-80	MC3556L#2	✦MOTA	127-41	MC10121L	✦MOTA	72-81
						MC4000F	✦MOTA	121-20	MC10121P	✦MOTA	72-82
MC74HC4002N#ai	✦MOTA	61-62	MC1654L	✦MOTA	139-26	MC4000L	✦MOTA	121-21	MC10130L	✦MOTA	176-86
			MC1658F	✦MOTA	154-72	MC4000P	✦MOTA	121-22	MC10130P	✦MOTA	176-87
MC74HC4017J(A)	✦MOTA	130-104	MC1658L	✦MOTA	154-73	MC4001P#1	✦MOTA	119-10	MC10131L	✦MOTA	39-85
			MC1658P	✦MOTA	154-74	MC4001P#2	✦MOTA	118-9	MC10131P	✦MOTA	39-86
MC74HC4017N(A)	✦MOTA	130-105	MC1660F	✦MOTA	73-25	MC4002F	✦MOTA	121-23	MC10133L	✦MOTA	176-94
			MC1660L	✦MOTA	73-26	MC4002L	✦MOTA	121-24	MC10133P	✦MOTA	176-95
MC74HC4020J(A)	✦MOTA	134-92	MC1662F	✦MOTA	74-12	MC4002P	✦MOTA	121-25	MC10135L	✦MOTA	39-49
			MC1662L	✦MOTA	74-13	MC4006L,P%	✦MOTA	118-65	MC10135P	✦MOTA	39-50
MC74HC4020N(A)	✦MOTA	134-93	MC1664F	✦MOTA	72-31	MC4007L	✦MOTA	118-66	MC10136L	✦MOTA	139-43
			MC1664L	✦MOTA	72-32	MC4007P	✦MOTA	118-67	MC10136P	✦MOTA	139-44
MC74HC4024J(A)	✦MOTA	134-94	MC1666F	✦MOTA	39-56	MC4008L	✦MOTA	172-69	MC10137L	✦MOTA	139-31
			MC1666L	✦MOTA	39-57	MC4008P	✦MOTA	172-70	MC10137P	✦MOTA	139-32
MC74HC4024N(A)	✦MOTA	134-95	MC1668F	✦MOTA	39-79	MC4010L	✦MOTA	172-63	MC10138L	✦MOTA	139-36
						MC4010P	✦MOTA	172-64	MC10138P	✦MOTA	139-37
MC74HC4040J(A)	✦MOTA	134-96	MC1668L	✦MOTA	176-67	MC4015P	✦MOTA	172-65	MC10153L	✦MOTA	176-96
						MC4015P	✦MOTA	165-83	MC10153P	✦MOTA	176-97
MC74HC4040N(A)	✦MOTA	135-1	MC1670F	✦MOTA	39-81	MC4021P	✦MOTA	165-84	MC10160L	✦MOTA	172-57
			MC1670L	✦MOTA	39-82	MC4022P	✦MOTA	165-85	MC10160P	✦MOTA	172-58
MC74HC4075J#ai	✦MOTA	61-63	MC1672F	✦MOTA	74-56	MC4023L,P%	✦MOTA	152-62	MC10163L	✦MOTA	182-61
			MC1672L	✦MOTA	74-57	MC4024L,P%	✦MOTA	154-95	MC10163P	✦MOTA	182-62
MC74HC4075N#ai	✦MOTA	58-72	MC1674F	✦MOTA	74-80	MC4026L	✦MOTA	160-52	MC10166L	✦MOTA	165-80
			MC1674L	✦MOTA	74-81	MC4026P	✦MOTA	160-53	MC10166P	✦MOTA	165-81
MC74HC4514J(A)	✦MOTA	116-83	MC1678L	✦MOTA	139-40	MC4028F	✦MOTA	160-54	MC10168L	✦MOTA	176-108
			MC1688F	✦MOTA	73-27	MC4028L	✦MOTA	160-55	MC10168P	✦MOTA	176-109
MC74HC4514N(A)	✦MOTA	116-84	MC1688L	✦MOTA	73-28	MC4028P	✦MOTA	160-56	MC10170L	✦MOTA	172-49
			MC1690F	✦MOTA	39-83	MC4030L	✦MOTA	160-57	MC10175L	✦MOTA	177-8
MC74HC4538J(A)	✦MOTA	155-90	MC1690L	✦MOTA	39-84	MC4030P	✦MOTA	160-58	MC10175P	✦MOTA	139-16
			MC1697P	✦MOTA	183-104	MC4032F	✦MOTA	118-10	MC10178L	✦MOTA	139-17
MC74HC4538N(A)	✦MOTA	155-91	MC1699F	✦MOTA	139-27	MC4032L	✦MOTA	118-11	MC10179L	✦MOTA	170-38
			MC1699L	✦MOTA	139-28	MC4032P	✦MOTA	118-12	MC10180P	✦MOTA	160-23
MC74HC404J	✦MOTA	66-14	MC1800L,P%	✦MOTA	69-19	MC4035L	✦MOTA	179-15	MC10180P	✦MOTA	168-37
MC74HC404N(A)	✦MOTA	66-15	MC1801L,P%	✦MOTA	67-36	MC4035P	✦MOTA	179-16	MC10181L	✦MOTA	188-38
			MC1802L,P%	✦MOTA	69-20	MC4037L	✦MOTA	178-72	MC10181P	✦MOTA	188-39
MC660L,P%	✦MOTA	69-90	MC1803L,P%	✦MOTA	69-21	MC4037P	✦MOTA	178-73	MC10182L	✦MOTA	168-26
MC661L,P%	✦MOTA	69-91	MC1804L,P%	✦MOTA	69-22	MC4038L	✦MOTA	118-68	MC10182P	✦MOTA	168-27
MC662L,P%	✦MOTA	69-92	MC1805L,P%	✦MOTA	69-23	MC4040P	✦MOTA	119-9	MC10183L	✦MOTA	182-63
MC663L,P%	✦MOTA	37-106	MC1806L,P%	✦MOTA	66-72	MC4042L,P%	✦MOTA	183-85	MC10193L	✦MOTA	182-64
MC664L,P%	✦MOTA	38-73	MC1807L,P%	✦MOTA	66-73	MC4044F	✦MOTA	54-75	MC10197L	✦MOTA	72-1
MC665L,P%	✦MOTA	122-100	MC1808L,P%	✦MOTA	66-107	MC4044L	✦MOTA	54-76	MC10197P	✦MOTA	72-2
MC666L,P%	✦MOTA	69-93	MC1809L,P%	✦MOTA	66-108	MC4044P	✦MOTA	54-77	MC10198L	✦MOTA	123-14
MC667L,P%	✦MOTA	70-95	MC1810L,P%	✦MOTA	67-45	MC4048L	✦MOTA	118-69	MC10198P	✦MOTA	123-15
MC668L,P%	✦MOTA	69-94	MC1811L,P%	✦MOTA	67-46	MC4050L	✦MOTA	142-67	MC10210L	✦MOTA	72-35
MC669L,P%	✦MOTA	69-95	MC1812L,P%	✦MOTA	70-65	MC4050P	✦MOTA	142-68	MC10211L	✦MOTA	72-36
MC672L,P%	✦MOTA	69-96	MC1813L	✦MOTA	176-39	MC4300F#mil	✦MOTA	121-26	MC10212L	✦MOTA	73-35
MC673L,P%	✦MOTA	66-88	MC1813P	✦MOTA	176-40	MC4300L#mil	✦MOTA	121-27	MC10212P	✦MOTA	73-36
MC674L,P%	✦MOTA	66-89	MC1814L	✦MOTA	176-41	MC4306F	✦MOTA	118-70	MC10231L	✦MOTA	39-87
MC675L,P%	✦MOTA	183-34	MC1814P	✦MOTA	176-42	MC4306L	✦MOTA	118-71	MC10231P	✦MOTA	39-88
MC676L	✦MOTA	117-63	MC1818L,P%	✦MOTA	68-11	MC4307L	✦MOTA	118-72	MC10287L	✦MOTA	183-13
MC676P	✦MOTA	117-64	MC1900F	✦MOTA	69-24	MC4308F	✦MOTA	172-71	MC10500F	✦MOTA	73-88
MC682L	✦MOTA	179-29	MC1900L	✦MOTA	69-25	MC4308L	✦MOTA	172-72	MC10500L	✦MOTA	73-89
MC682P	✦MOTA	179-30	MC1901F								

3. TYPE No. CROSS INDEX

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TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
MC14018BAL	♦MOTA	138 - 6	MC144118P	♦MOTA	122 - 67	MC145028P #ai	♦MOTA	185 - 1	MM4320D	NSC	182 - 38	MSM510RS	♦OKUJ	56 - 64	MC14018BCL	♦MOTA	138 - 7	MC144119P	♦MOTA	184 - 94	MM4601AD	♦NSC	93 - 61	MSM512RS	♦OKUJ	56 - 65	MC14018BCP	♦MOTA	138 - 8	MC144191P	♦MOTA	184 - 95	MC145100AL	♦MOTA	176 - 36	MM4602AD	NSC	59 - 41	MSM514RS	♦OKUJ	56 - 68	MC14020BAL	♦MOTA	134 - 3	MC14490EFL	♦MOTA	183 - 70	MC145100CP	♦MOTA	176 - 38	MM4602AF	NSC	59 - 42	MSM514RS	♦OKUJ	56 - 67	MC14020BCL	♦MOTA	134 - 4	MC14490EVL	♦MOTA	183 - 71	MCA	MLC	183 - 17	MM4611AD	♦NSC	62 - 68	MSM530RS	♦OKUJ	36 - 76	MC14020BCP	♦MOTA	134 - 5	MC14490F	♦MOTA	183 - 72	MCC	MLC	183 - 18	MM4611AF	♦NSC	62 - 69	MSM530RS	♦OKUJ	36 - 75	MC14022BAL	♦MOTA	137 - 76	MC14490FP	♦MOTA	183 - 73	MCD	MLC	183 - 19	MM4612AD	♦NSC	62 - 70	MSM531RS	♦OKUJ	35 - 12	MC14022BCL	♦MOTA	137 - 77	MC14490VP	♦MOTA	183 - 74	MM54C00D	♦NSC	62 - 12	MM4613AD	NSC	37 - 2	MSM531RS	♦OKUJ	35 - 43	MC14022BCP	♦MOTA	137 - 78	MC14501UBAL	♦MOTA	57 - 54	MM54C02D	♦NSC	58 - 82	MM4613AF	NSC	37 - 3	MSM551RS	♦OKUJ	136 - 83	MC14023BAL	♦MOTA	64 - 54	MC14501UBCL	♦MOTA	57 - 54	MM54C08D	♦NSC	55 - 48	MM4617AD	NSC	135 - 74	MSM551RS	♦OKUJ	136 - 84	MC14023BCL	♦MOTA	64 - 55	MC14501UBCP	♦MOTA	57 - 54	MM54C10D	♦NSC	62 - 13	MM4617AF	NSC	135 - 75	MSM552RS	♦OKUJ	136 - 76	MC14023BCP	♦MOTA	64 - 56	MC14508BCL	♦MOTA	65 - 82	MM54C20D	♦NSC	62 - 14	MM4619AD	NSC	56 - 95	MSM564RS	♦OKUJ	117 - 34	MC14023UBAL	♦MOTA	64 - 80	MC14508BCL	♦MOTA	65 - 82	MM54C30D	♦NSC	62 - 15	MM4619AF	NSC	56 - 96	MSM580RS	♦OKUJ	159 - 13	MC14023UBCL	♦MOTA	64 - 81	MC14508BCP	♦MOTA	65 - 84	MM54C32D	♦NSC	57 - 73	MM4620AD	NSC	132 - 3	MSM581RS	♦OKUJ	64 - 103	MC14023UBCP	♦MOTA	64 - 82	MC14508BCL	♦MOTA	174 - 56	MM54C42D	♦NSC	117 - 32	MM4620AF	NSC	132 - 4	MSM581RS	♦OKUJ	64 - 104	MC14024BAL	♦MOTA	133 - 106	MC14508BCL	♦MOTA	174 - 56	MM54C48D	♦NSC	117 - 40	MM4622AD	NSC	135 - 76	MSM582RS	♦OKUJ	165 - 61	MC14024BCL	♦MOTA	133 - 107	MC14508BCL	♦MOTA	174 - 56	MM54C73D	♦NSC	35 - 5	MM4622AF	NSC	135 - 77	MSM4000RS	♦OKUJ	59 - 53	MC14024BCP	♦MOTA	133 - 108	MC14510BCL	♦MOTA	130 - 87	MM54C74D	♦NSC	35 - 71	MM4623AD	♦NSC	62 - 72	MSM4001RS	♦OKUJ	58 - 90	MC14025BAL	♦MOTA	61 - 28	MC14510BCL	♦MOTA	130 - 88	MM54C76D	♦NSC	35 - 6	MM4623AF	NSC	62 - 73	MSM4002RS	♦OKUJ	59 - 54	MC14025BCL	♦MOTA	61 - 29	MC14510BCL	♦MOTA	130 - 89	MM54C83D	♦NSC	159 - 63	MM4624AD	NSC	132 - 74	MSM4002RS	♦OKUJ	58 - 91	MC14025BCP	♦MOTA	61 - 30	MC14510BCL	♦MOTA	130 - 89	MM54C85D	♦NSC	165 - 21	MM4624AF	NSC	132 - 75	MSM4007RS	♦OKUJ	66 - 25	MC14025UBAL	♦MOTA	61 - 40	MC14516BCL	♦MOTA	135 - 39	MM54C86D	♦NSC	64 - 101	MM4625AD	NSC	59 - 43	MSM4008RS	♦OKUJ	159 - 95	MC14025UBCL	♦MOTA	61 - 41	MC14516BCL	♦MOTA	135 - 40	MM54C96D	♦NSC	135 - 68	MM4625AF	NSC	59 - 44	MSM4008RS	♦OKUJ	160 - 6	MC14025UBCP	♦MOTA	61 - 42	MC14516BCL	♦MOTA	135 - 41	MM54C98D	♦NSC	131 - 55	MM4627AD	NSC	35 - 27	MSM4011RS	♦OKUJ	63 - 7	MC14027BAL	♦MOTA	34 - 77	MC14518BCL	♦MOTA	130 - 27	MM54C93D	♦NSC	35 - 7	MM4627AF	NSC	35 - 28	MSM4011RS	♦OKUJ	63 - 25	MC14027BCL	♦MOTA	34 - 78	MC14518BCL	♦MOTA	130 - 28	MM54C107D	♦NSC	135 - 80	MM4630AD	NSC	65 - 11	MSM4012RS	♦OKUJ	63 - 8	MC14027BCP	♦MOTA	34 - 79	MC14518BCL	♦MOTA	130 - 29	MM54C160D	♦NSC	131 - 91	MM4630AF	NSC	65 - 12	MSM4012RS	♦OKUJ	62 - 26	MC14028BAL	♦MOTA	117 - 39	MC14520BCL	♦MOTA	133 - 44	MM54C162D	♦NSC	135 - 81	MM5015	♦NSC	182 - 10	MSM4013RS	♦OKUJ	37 - 13	MC14028BCL	♦MOTA	117 - 39	MC14520BCL	♦MOTA	133 - 45	MM54C163D	♦NSC	131 - 92	MM5307AAD	♦NSC	157 - 95	MSM4013RS	♦OKUJ	37 - 28	MC14028BCP	♦MOTA	117 - 39	MC14520BCL	♦MOTA	133 - 46	MM54C162D	♦NSC	37 - 14	MM5307AAN	♦NSC	182 - 96	MSM4017RS	♦OKUJ	137 - 32	MC14029BAL	♦MOTA	130 - 84	MC14521BCL	♦MOTA	156 - 81	MM54C173D	♦NSC	37 - 15	MM5320D	NSC	182 - 39	MSM4017RS	♦OKUJ	136 - 68	MC14029BCL	♦MOTA	130 - 85	MC14521BCL	♦MOTA	156 - 82	MM54C174D	♦NSC	37 - 16	MM5320N	NSC	182 - 40	MSM4019RS	♦OKUJ	56 - 98	MC14029BCP	♦MOTA	130 - 85	MC14521BCL	♦MOTA	156 - 83	MM54C192D	♦NSC	135 - 84	MM5369N	♦NSC	157 - 28	MSM4019RS	♦OKUJ	56 - 69	MC14032BAL	♦MOTA	159 - 5	MC14522BCL	♦MOTA	129 - 60	MM54C193D	♦NSC	132 - 24	MM5554N	NSC	157 - 100	MSM4020RS	♦OKUJ	133 - 65	MC14032BCL	♦MOTA	159 - 6	MC14522BCL	♦MOTA	129 - 60	MM54C221D	♦NSC	122 - 35	MM5555N	NSC	157 - 102	MSM4020RS	♦OKUJ	132 - 26	MC14032BCP	♦MOTA	159 - 6	MC14522BCL	♦MOTA	129 - 60	MM54C915D	♦NSC	117 - 52	MM5556N	NSC	157 - 101	MSM4022RS	♦OKUJ	129 - 28	MC14038BAL	♦MOTA	159 - 9	MC14526BCL	♦MOTA	131 - 89	MM54C922N	♦NSC	184 - 40	MM5601AN	♦NSC	93 - 62	MSM4023RS	♦OKUJ	63 - 9	MC14038BCL	♦MOTA	159 - 10	MC14526BCL	♦MOTA	131 - 90	MM54C923N	♦NSC	184 - 41	MM5602AN	NSC	59 - 45	MSM4023RS	♦OKUJ	62 - 27	MC14040BAL	♦MOTA	134 - 6	MC14527BAL	♦MOTA	156 - 33	MM54HC00(A)	♦NSC	61 - 92	MM5611AN	♦NSC	62 - 74	MSM4024RS	♦OKUJ	135 - 27	MC14040BCL	♦MOTA	134 - 7	MC14527BAL	♦MOTA	156 - 33	MM54HC10(A)	♦NSC	61 - 93	MM5612AN	♦NSC	62 - 75	MSM4025RS	♦OKUJ	59 - 55	MC14040BCP	♦MOTA	134 - 8	MC14527BCL	♦MOTA	156 - 32	MM54HC20(A)	♦NSC	61 - 94	MM5613AN	NSC	37 - 4	MSM4025RS	♦OKUJ	59 - 52	MC14040CP	♦MOTA	174 - 102	MC14528BCL	♦MOTA	122 - 27	MM54HC30(A)	♦NSC	61 - 95	MM5617AN	NSC	135 - 78	MSM4027RS	♦OKUJ	35 - 32	MC14042BAL	♦MOTA	174 - 103	MC14528BCL	♦MOTA	122 - 28	MM54HC133J(A)	♦NSC	61 - 96	MM5619AN	NSC	56 - 97	MSM4027RS	♦OKUJ	35 - 44	MC14042BCL	♦MOTA	174 - 104	MC14528BCL	♦MOTA	122 - 29	MM74C00N	♦NSC	62 - 16	MM5622AN	NSC	135 - 79	MSM4028RS	♦OKUJ	117 - 35	MC14042BCP	♦MOTA	174 - 105	MC14530BAL	♦MOTA	183 - 11	MM74C02N	♦NSC	58 - 83	MM5623AN	♦NSC	62 - 76	MSM4029RS	♦OKUJ	135 - 34	MC14043BAL	♦MOTA	174 - 106	MC14530BCL	♦MOTA	183 - 13	MM74C08N	♦NSC	55 - 49	MM5624AN	NSC	132 - 76	MSM4030RS	♦OKUJ	65 - 16	MC14043BCL	♦MOTA	174 - 107	MC14530BCL	♦MOTA	172 - 26	MM74C10N	♦NSC	62 - 17	MM5625AN	NSC	59 - 46	MSM4030RS	♦OKUJ	64 - 105	MC14044BAL	♦MOTA	174 - 108	MC14531BCL	♦MOTA	172 - 28	MM74C20N	♦NSC	62 - 18	MM5627AN	NSC	35 - 29	MSM4040RS	♦OKUJ	133 - 66	MC14044BCL	♦MOTA	174 - 109	MC14531BCL	♦MOTA	172 - 28	MM74C30N	♦NSC	62 - 19	MM5630AN	NSC	65 - 13	MSM4042RS	♦OKUJ	132 - 27	MC14044BCP	♦MOTA	175 - 1	MC14531BCL	♦MOTA	172 - 28	MM74C32N	♦NSC	57 - 74	MM3003	MATJ	123 - 32	MSM4043RS	♦OKUJ	175 - 51	MC14068BAL	♦MOTA	64 - 57	MC14531BCL	♦MOTA	172 - 29	MM74C42N	♦NSC	117 - 33	MN3004	MATJ	123 - 33	MSM4043RS	♦OKUJ	174 - 8	MC14068BCL	♦MOTA	64 - 58	MC14534BCL	♦MOTA	135 - 86	MM74C48N	♦NSC	117 - 41	MN3005	MATJ	123 - 34	MSM4044RS	♦OKUJ	175 - 44	MC14068BCP	♦MOTA	64 - 59	MC14534BCL	♦MOTA	135 - 87	MM74C73N	♦NSC	35 - 8	MN3006	MATJ	123 - 35	MSM4044RS	♦OKUJ	174 - 10	MC14069UBAL	♦MOTA	66 - 60	MC14536BCL	♦MOTA	122 - 58	MM74C74N	♦NSC	36 - 72	MN3007	MATJ	123 - 36	MSM4044RS	♦OKUJ	175 - 45	MC14069UBCL	♦MOTA	66 - 61	MC14536BCL	♦MOTA	122 - 59	MM74C76N	♦NSC	35 - 9	MN3008	MATJ	123 - 37	MSM4046RS	♦OKUJ	63 - 10	MC14070BAL	♦MOTA	65 - 70	MC14538BCL	♦MOTA	122 - 30	MM74C83N	♦NSC	159 - 64	MN3009	MATJ	123 - 38	MSM4068RS	♦OKUJ	62 - 28	MC14070BCL	♦MOTA	65 - 71	MC14538BCL	♦MOTA	122 - 31	MM74C85N	♦NSC	165 - 22	MN3010	MATJ	123 - 39	MSM4068RS	♦OKUJ	66 - 28	MC14070BCP	♦MOTA	65 - 72	MC14538BCL	♦MOTA	122 - 32	MM74C86N	♦NSC	64 - 102	MN3011	♦MOTJ	123 - 39	MSM4069RS	♦OKUJ	66 - 28	MC14071BAL	♦MOTA	58 - 59	MC14541BCL	♦MOTA	122 - 61	MM74C90N	♦NSC	135 - 69	MN3012	MATJ	123 - 40	MSM4071RS	♦OKUJ	57 - 84	MC14071BCL	♦MOTA	58 - 60	MC14541BCL	♦MOTA	122 - 62	MM74C93N	♦NSC	131 - 56	MN3101	♦MOTJ	182 - 41	MSM4071RS	♦OKUJ	57 - 78	MC14071BCP	♦MOTA	58 - 61	MC14541BCL	♦MOTA	122 - 63	MM74C107N	♦NSC	35 - 10	MN3102	MATJ	182 - 42	MSM4072RS	♦OKUJ	57 - 85	MC14072BAL	♦MOTA	58 - 62	MC14545BCL	♦MOTA	130 - 15	MM74C160N	♦NSC	135 - 82	MN3105	MATJ	182 - 43	MSM4072RS	♦OKUJ	57 - 79	MC14072BCL	♦MOTA	58 - 63	MC14545BCL	♦MOTA	130 - 16	MM74C161N	♦NSC	132 - 1	MN3204	MATJ	123 - 18	MSM4075RS	♦OKUJ	57 - 83	MC14072BCP	♦MOTA	58 - 64	MC14545BCL	♦MOTA	130 - 17	MM74C162N	♦NSC	135 - 83	MN3206	MATJ	123 - 19	MSM4078RS	♦OKUJ	59 - 56	MC14073BAL	♦MOTA	56 - 37	MC14545BCL	♦MOTA	163 - 8	MM74C163N	♦NSC	132 - 2	MN3207 #	MATJ	123 - 20	MSM4078RS	♦OKUJ	58 - 93	MC14073BCL	♦MOTA	56 - 38	MC14545BCL	♦MOTA	163 - 9	MM74C173N	♦NSC	37 - 17	MN3209	MATJ	123 - 21	MSM4081RS	♦OKUJ	55 - 57	MC14073BCP	♦MOTA	56 - 39	MC14545BCL	♦MOTA	163 - 10	MM74C174N	♦NSC	37 - 18	MN3210	MATJ	123 - 22	MSM4081RS	♦OKUJ	55 - 50	MC14075BAL	♦MOTA	58 - 65	MC14560BCL	♦MOTA	159 - 88	MM74C175N	♦NSC	37 - 19	MN3207	MATJ	123 - 17	MSM4082RS	♦OKUJ	55 - 58	MC14075BCL	♦MOTA	58 - 66	MC14560BCL	♦MOTA	160 - 1	MM74C192N	♦NSC	135 - 85	MN6053	MATJ	154 - 37	MSM4082RS	♦OKUJ	55 - 51	MC14075BCP	♦MOTA	58 - 67	MC14560BCL	♦MOTA	160 - 2	MM74C193N	♦NSC	132 -

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MSM5562	•OKUJ	131 - 6	N74F00F	•SIC	104 - 71	N74H54N	MULB	86 - 22	N74LS21N	PHIN	(cont.)	N74LS109AF	MULB	45 - 66
MSM5562A	•OKUJ	131 - 7		•VALG			VALG			RTCF		N74LS109AN	PHIN	
MSM5562RS	•OKUJ	131 - 8	N74F00N	•SIC	104 - 72	N74H55F	MULB	86 - 23				N74LS109AN	PHIN	45 - 67
MSM5563	•OKUJ	131 - 9	N74F02F	•SIC	92 - 18		VALG							
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MSM5563RS	•OKUJ	131 - 11	N74F04F	•SIC	115 - 42		VALG			PHIN		N74LS109F	•SIC	47 - 42
MSM5564	•OKUJ	131 - 12		•VALG		N74H60F	MULB	113 - 102	N74LS22N	MULB	105 - 4	N74LS109N	•MULB	45 - 68
MSM5564A	•OKUJ	131 - 13	N74F04N	•SIC	115 - 43		VALG			PHIN			RTCF	
MSM5564RS	•OKUJ	131 - 14		•VALG		N74H60N	MULB	113 - 103	N74LS26D	SIC	105 - 5		•SIC	
MSM5570	•OKUJ	131 - 15	N74F08N	•SIC	79 - 51		VALG		N74LS26N	•MULB	105 - 6	N74LS112F	•MULB	45 - 69
MSM5570A	•OKUJ	131 - 16		•VALG		N74H61F	MULB	113 - 104		PHIN			RTCF	
MSM5571	•OKUJ	131 - 17	N74F10F	•VALG	104 - 73		VALG			SIC			VALG	
MSM5571A	•OKUJ	131 - 18	N74F10N	•VALG	104 - 74	N74H61N	MULB	113 - 105	N74LS27F	•MULB	92 - 22	N74LS112N	•MULB	45 - 70
MSM5572	•OKUJ	131 - 19	N74F11F	•VALG	79 - 52		VALG			PHIN			RTCF	
MSM5572A	•OKUJ	131 - 20	N74F11N	•VALG	79 - 53	N74H62F	MULB	113 - 106		VALG			•SIC	
MSM5573	•OKUJ	131 - 21	N74F20F	•SIC	104 - 75		VALG		N74LS27N	•MULB	92 - 23	N74LS113F	•MULB	45 - 71
MSM5573A	•OKUJ	131 - 22		•VALG		N74H62N	MULB	113 - 107		PHIN			RTCF	
MSM5574	•OKUJ	131 - 23	N74F20N	•SIC	104 - 76		VALG			•SIC			VALG	
MSM5574A	•OKUJ	131 - 24		•VALG		N74H71F	MULB	45 - 40	N74LS30D	SIC	105 - 7	N74LS113N	•MULB	45 - 72
MSM5576	•OKUJ	131 - 25	N74F32N	•SIC	88 - 12		VALG		N74LS30N	•MULB	105 - 8		RTCF	
MSM5576A	•OKUJ	131 - 26		•VALG		N74H71N	MULB	45 - 41		PHIN			•SIC	
MSM5576RS	•OKUJ	131 - 27	N74F64F	•SIC	82 - 63		VALG			•SIC		N74LS114F	MULB	45 - 73
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MSM40193RS	•OKUJ	131 - 65		•VALG			VALG			PHIN		N74LS136F	•MULB	112 - 45
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MT32008F	•DDC	184 - 75	N74F109F	•SIC	47 - 40	N74H74N	MULB	52 - 51		PHIN		N74LS136N	•MULB	112 - 46
N8H16A	MULB	110 - 95		•VALG			VALG			•SIC			RTCF	
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N8H22B	MULB	47 - 60	N74F521N	•SIC	165 - 96	N74H101N	MULB	45 - 49	N74LS55N	MULB	86 - 29		RTCF	
N8H22E	MULB	47 - 61	N74F533F	•SIC	179 - 48		VALG			PHIN		N74LS160AN	•MULB	141 - 45
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N8T01E	MULB	118 - 24	N74H01F	MULB	104 - 78	N74H103N	MULB	45 - 53	N74LS74AF	•MULB	52 - 52		•SIC	
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N8T97F	•VALG	79 - 49	N74H20N	MULB	104 - 85		VALG			PHIN		N74LS168AN	•MULB	144 - 1
N8T97N	•VALG	79 - 50		VALG		N74LS01F	•MULB	104 - 93		PHIN			RTCF	
N8T98F	•VALG	104 - 69	N74H21F	MULB	79 - 58		VALG		N74LS76N	•MULB	45 - 61		•SIC	
N8T98N	•VALG	104 - 70		VALG		N74LS01N	PHIN	104 - 94		PHIN		N74LS169AF	•MULB	150 - 67
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N8T3404N	•MULB	179 - 33		VALG		N74LS02D	SIC	92 - 20		PHIN		N74LS169AN	•MULB	150 - 68
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N8TS806F	•MULB	53 - 81	N74H30N	MULB	104 - 89	N74LS03F	PHIN	104 - 95	N74LS83AF	•MULB	161 - 46		•SIC	
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N8TS808N	•MULB	53 - 84		VALG			VALG			PHIN		N74LS174N	•MULB	53 - 94
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				VALG			VALG		N74LS86N	•MULB	112 - 44	N74LS181F	•MULB	169 - 33
				VALG		N74LS08D	SIC	79 - 60		PHIN			RTCF	
				VALG		N74LS08N	•MULB	79 - 61	N74LS86F	•MULB	112 - 43		VALG	
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				VALG			VALG		N74LS86N	•MULB	112 - 44		VALG	
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N74LS221N	PHIN VALG	126 - 65	N74S00D	SIC	105 - 9	N74S135F	MULB PHIN	113 - 40	N1006A	MULB PHIN	74 - 38	N7427N	MULB PHIN	92 - 37
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N74LS259N	MULB PHIN	180 - 105	N74S03F	MULB PHIN	105 - 11	N74S168F	MULB	144 - 9	N1013A	MULB PHIN	39 - 39	N7430N	MULB PHIN	105 - 40
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N74LS261F	MULB PHIN	163 - 25	N74S04N	MULB PHIN	115 - 49	N74S174F	MULB	54 - 2	N1024A	MULB PHIN	74 - 41	N7442F	MULB PHIN	120 - 7
N74LS261N	MULB PHIN	163 - 26	N74S05F	MULB PHIN	115 - 50	N74S174N	MULB	54 - 3	N1025A	MULB PHIN	182 - 79	N7442N	MULB PHIN	120 - 8
N74LS266F	MULB PHIN	115 - 14	N74S05N	MULB PHIN	115 - 51	N74S175F	MULB	54 - 4	N1027A	MULB PHIN	39 - 40	N7442N	MULB PHIN	120 - 8
N74LS266N	MULB PHIN	115 - 15	N74S08F	MULB PHIN	79 - 70	N74S175N	MULB	54 - 5	N1033A	MULB PHIN	39 - 55	N7443F	MULB PHIN	121 - 9
N74LS273D	SIC	54 - 36	N74S08N	MULB PHIN	79 - 71	N74S181F	MULB	169 - 10	N7400F	MULB PHIN	105 - 25	N7443N	MULB PHIN	120 - 9
N74LS273N	MULB PHIN	53 - 97	N74S09F	MULB PHIN	79 - 72	N74S181N	MULB PHIN	169 - 11	N7400N	MULB PHIN	105 - 26	N7444F	MULB PHIN	121 - 65
N74LS279F	MULB PHIN	177 - 26	N74S09N	MULB PHIN	79 - 73	N74S181W	MULB PHIN	168 - 105	N7401F	MULB PHIN	105 - 27	N7444N	MULB PHIN	121 - 66
N74LS279N	MULB PHIN	177 - 27	N74S09N	MULB PHIN	79 - 73	N74S182F	MULB PHIN	170 - 62	N7401N	MULB PHIN	105 - 28	N7450F	MULB PHIN	113 - 108
N74LS283D	SIC	160 - 40	N74S10D	SIC	105 - 13	N74S182N	MULB PHIN	170 - 63	N7402F	MULB PHIN	92 - 30	N7450N	MULB PHIN	113 - 109
N74LS283N	MULB PHIN	161 - 49	N74S10N	MULB PHIN	105 - 14	N74S196F	MULB PHIN	143 - 22	N7402N	MULB PHIN	92 - 31	N7451F	MULB PHIN	36 - 32
N74LS290D	SIC	140 - 41	N74S11D	SIC	79 - 74	N74S197F	MULB PHIN	149 - 59	N7403F	MULB PHIN	105 - 29	N7451N	MULB PHIN	86 - 33
N74LS290N	MULB PHIN	140 - 42	N74S11N	MULB PHIN	79 - 75	N74S260D	MULB PHIN	92 - 28	N7403N	MULB PHIN	105 - 30	N7453F	MULB PHIN	113 - 110
N74LS293D	SIC	145 - 55	N74S15F	MULB PHIN	80 - 1	N74S260N	MULB PHIN	92 - 29	N7404F	MULB PHIN	115 - 52	N7453N	MULB PHIN	86 - 34
N74LS293N	MULB PHIN	145 - 56	N74S15N	MULB PHIN	80 - 2	N74S273F	MULB PHIN	54 - 6	N7404N	MULB PHIN	115 - 53	N7454F	MULB PHIN	86 - 35
N74LS363F	MULB PHIN	180 - 59	N74S20D	SIC	105 - 15	N74S273N	MULB PHIN	54 - 7	N7405F	MULB PHIN	115 - 54	N7454N	MULB PHIN	86 - 35
N74LS363N	MULB PHIN	180 - 60	N74S20N	MULB PHIN	105 - 16	N74S273N	MULB PHIN	54 - 7	N7405N	MULB PHIN	115 - 55	N7460F	MULB PHIN	114 - 2
N74LS364F	MULB PHIN	53 - 98	N74S22F	MULB PHIN	105 - 17	N74S280F	MULB PHIN	173 - 2	N7406N	MULB PHIN	115 - 56	N7460N	MULB PHIN	114 - 3
N74LS364N	MULB PHIN	53 - 99	N74S22N	MULB PHIN	105 - 18	N74S280N	MULB PHIN	173 - 3	N7406N	MULB PHIN	115 - 56	N7470F	MULB PHIN	45 - 80
N74LS373D	SIC	181 - 6	N74S32D	SIC	88 - 15	N74S280N	MULB PHIN	173 - 3	N7406N	MULB PHIN	115 - 56	N7470N	MULB PHIN	45 - 81
N74LS373N	MULB PHIN	181 - 7	N74S32N	MULB PHIN	88 - 16	N74S373F	MULB PHIN	179 - 75	N7408F	MULB PHIN	80 - 3	N7470N	MULB PHIN	45 - 81
N74LS374D	SIC	54 - 37	N74S51D	SIC	86 - 30	N74S373N	MULB PHIN	179 - 76	N7408N	MULB PHIN	80 - 4	N7472F	MULB PHIN	45 - 82
N74LS374N	MULB PHIN	53 - 100	N74S51N	MULB PHIN	86 - 31	N74S374D	MULB PHIN	54 - 40	N7409F	MULB PHIN	80 - 5	N7472N	MULB PHIN	45 - 83
N74LS375F	MULB PHIN	177 - 52	N74S64F	MULB PHIN	82 - 45	N74S374N	MULB PHIN	54 - 8	N7409N	MULB PHIN	80 - 6	N7473N	MULB PHIN	45 - 84
N74LS375N	MULB PHIN	177 - 53	N74S64N	MULB PHIN	82 - 46	N74S534F	MULB PHIN	54 - 9	N7410F	MULB PHIN	105 - 31	N7473N	MULB PHIN	45 - 85
N74LS377D	SIC	54 - 38	N74S65F	MULB PHIN	82 - 47	N74S534N	MULB PHIN	54 - 10	N7411N	MULB PHIN	80 - 8	N7475F	MULB PHIN	177 - 68
N74LS377N	MULB PHIN	53 - 101	N74S65N	MULB PHIN	82 - 48	N82S41F	MULB PHIN	113 - 20	N7411N	MULB PHIN	80 - 8	N7475N	MULB PHIN	177 - 69
N74LS378F	MULB PHIN	53 - 102	N74S74D	SIC	54 - 39	N82S41N	MULB PHIN	113 - 21	N7412N	MULB PHIN	105 - 34	N7476F	MULB PHIN	45 - 86
N74LS378N	MULB PHIN	54 - 1	N74S74N	MULB PHIN	52 - 54	N82S42F	MULB PHIN	114 - 86	N7412N	MULB PHIN	105 - 34	N7476N	MULB PHIN	45 - 86
N74LS386F	MULB PHIN	112 - 47	N74S74N	MULB PHIN	52 - 54	N82S42N	MULB PHIN	114 - 87	N7416F	MULB PHIN	115 - 57	N7476N	MULB PHIN	45 - 87
N74LS386N	MULB PHIN	112 - 48	N74S85D	SIC	166 - 5	N82S42N	MULB PHIN	114 - 87	N7416N	MULB PHIN	115 - 58	N7476N	MULB PHIN	45 - 87
N74LS390D	SIC	140 - 78	N74S85N	MULB PHIN	166 - 6	N82S50F	MULB PHIN	118 - 16	N7420F	MULB PHIN	105 - 35	N7476N	MULB PHIN	45 - 87
N74LS390N	MULB PHIN	140 - 79	N74S86D	SIC	112 - 49	N82S50N	MULB PHIN	118 - 17	N7420N	MULB PHIN	105 - 36	N7480F	MULB PHIN	160 - 68
N74LS393D	SIC	146 - 77	N74S86N	MULB PHIN	112 - 50	N82S52F	MULB PHIN	120 - 5	N7421F	MULB PHIN	80 - 9	N7480N	MULB PHIN	160 - 69
N74LS393N	MULB PHIN	146 - 78	N74S86N	MULB PHIN	112 - 50	N82S52N	MULB PHIN	120 - 6	N7421N	MULB PHIN	80 - 10	N7483F	MULB PHIN	162 - 22
N74LS490F	MULB PHIN	141 - 48	N74S86W	MULB PHIN	113 - 39	N82S62A	MULB PHIN	173 - 14	N7423N	MULB PHIN	92 - 32	N7483N	MULB PHIN	162 - 23
N74LS490N	MULB PHIN	141 - 49	N74S112D	SIC	47 - 48	N82S62F	MULB PHIN	173 - 24	N7425F	MULB PHIN	92 - 33	N7485F	MULB PHIN	166 - 26
N74LS568AN	SIC	142 - 69	N74S112N	MULB PHIN	45 - 75	N82S62N	MULB PHIN	173 - 25	N7425N	MULB PHIN	92 - 34	N7485N	MULB PHIN	166 - 27
N74LS568F	MULB PHIN	144 - 2	N74S113F	MULB PHIN	45 - 76	N82S62N	MULB PHIN	173 - 25	N7426F	MULB PHIN	105 - 37	N7486F	MULB PHIN	112 - 51
N74LS568N	MULB PHIN	144 - 3	N74S113N	MULB PHIN	45 - 77	N82S82F	MULB PHIN	168 - 48	N7426N	MULB PHIN	105 - 37	N7486N	MULB PHIN	112 - 52
			N74S114F	MULB PHIN	45 - 78	N82S82N	MULB PHIN	168 - 49						
			N74S114N	MULB PHIN	45 - 79	N82S83F	MULB PHIN	162 - 13						
			N74S114N	MULB PHIN	45 - 79	N82S83N	MULB PHIN	162 - 14						
			N74S133F	MULB PHIN	105 - 19	N82S90F	MULB PHIN	142 - 86						
			N74S133N	MULB PHIN	105 - 20	N82S90N	MULB PHIN	142 - 87						
			N74S133W	MULB PHIN	105 - 21	N82S91F	MULB PHIN	149 - 4						
			N74S134F	MULB PHIN	105 - 22	N82S91N	MULB PHIN	149 - 5						

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N7490F	PHIN	140 - 13	N8292F	PHIN	139 - 94	N8825F	PHIN	47 - 68	N74116F	PHIN	178 - 77	NE543K	PHIN	184 - 1
N7490N	PHIN	140 - 14	N8292N	PHIN	139 - 95	N8825J	PHIN	47 - 69	N74116N	PHIN	178 - 78	NE553BA	PHIN	124 - 87
N7492F	PHIN	153 - 15	N8292Q	PHIN	140 - 17	N8826A	PHIN	47 - 70	N74121F	PHIN	126 - 66	NE553F	PHIN	124 - 88
N7492N	PHIN	153 - 16	N8293F	PHIN	144 - 85	N8826F	PHIN	47 - 71	N74121N	PHIN	126 - 67	NE554BA	PHIN	124 - 91
N7493F	PHIN	145 - 8	N8293N	PHIN	144 - 86	N8826J	PHIN	47 - 72	N74121W	PHIN	126 - 68	NE554F	PHIN	124 - 92
N7493N	PHIN	145 - 9	N8293Q	PHIN	145 - 12	N8827A	PHIN	47 - 73	N74122F	PHIN	126 - 69	NE555D	PHIN	128 - 27
N8162A	PHIN	127 - 19	N8415A	PHIN	67 - 107	N8827F	PHIN	47 - 74	N74122N	PHIN	126 - 70	NE555F	PHIN	128 - 60
N8162F	PHIN	127 - 20	N8415F	PHIN	67 - 108	N8827J	PHIN	47 - 75	N74122W	PHIN	126 - 71	NE555FE	PHIN	128 - 61
N8162J	PHIN	127 - 21	N8415J	PHIN	67 - 109	N8828A	PHIN	54 - 52	N74123F	PHIN	126 - 72	NE555H	PHIN	128 - 62
N8241F	PHIN	113 - 9	N8416A	PHIN	69 - 36	N8828F	PHIN	54 - 53	N74123N	PHIN	126 - 72	NE555JG	PHIN	128 - 28
N8241N	PHIN	113 - 10	N8416F	PHIN	69 - 37	N8828J	PHIN	54 - 54	N74123W	PHIN	126 - 72	NE555L	PHIN	128 - 29
N8241Q	PHIN	113 - 11	N8416J	PHIN	69 - 38	N8829A	PHIN	47 - 76	N74124F	PHIN	118 - 75	NE555N	PHIN	128 - 63
N8242F	PHIN	114 - 83	N8417A	PHIN	67 - 110	N8829F	PHIN	47 - 77	N74124N	PHIN	118 - 76	NE555P	PHIN	128 - 30
N8242N	PHIN	114 - 84	N8417F	PHIN	68 - 1	N8829J	PHIN	47 - 78	N74124W	PHIN	141 - 50	NE555T	PHIN	128 - 64
N8242Q	PHIN	93 - 40	N8417J	PHIN	68 - 2	N8840A	PHIN	113 - 12	N74125F	PHIN	141 - 51	NE555V	PHIN	128 - 65
N8243F	PHIN	183 - 105	N8417Q	PHIN	68 - 3	N8840F	PHIN	113 - 13	N74125N	PHIN	141 - 52	NE556	PHIN	128 - 38
N8243N	PHIN	183 - 106	N8424A	PHIN	38 - 89	N8840J	PHIN	113 - 14	N74125W	PHIN	141 - 53	NE556-1F	PHIN	128 - 39
N8250F	PHIN	118 - 18	N8424F	PHIN	38 - 90	N8840Q	PHIN	113 - 14	N74126F	PHIN	141 - 52	NE556-1N	PHIN	128 - 8
N8250N	PHIN	118 - 19	N8424J	PHIN	38 - 91	N8848A	PHIN	87 - 25	N74126N	PHIN	141 - 53	NE556A	PHIN	128 - 40
N8251F	PHIN	120 - 10	N8425A	PHIN	38 - 92	N8848F	PHIN	87 - 26	N74126W	PHIN	141 - 53	NE556B	PHIN	128 - 72
N8251N	PHIN	120 - 11	N8425F	PHIN	38 - 93	N8848J	PHIN	87 - 27	N74127F	PHIN	141 - 52	NE556J	PHIN	128 - 31
N8252F	PHIN	120 - 12	N8425J	PHIN	38 - 94	N8855A	PHIN	110 - 102	N74127N	PHIN	141 - 53	NE556N	PHIN	128 - 32
N8252N	PHIN	120 - 13	N8440A	PHIN	113 - 22	N8855F	PHIN	110 - 103	N74127W	PHIN	141 - 53	NE558F	PHIN	128 - 2
N8260F	PHIN	168 - 44	N8440F	PHIN	113 - 23	N8855J	PHIN	110 - 104	N74128F	PHIN	141 - 53	NE558N	PHIN	128 - 3
N8260N	PHIN	168 - 45	N8440J	PHIN	113 - 24	N8870A	PHIN	109 - 3	N74128N	PHIN	141 - 53	NE559D	PHIN	184 - 76
N8260Q	PHIN	168 - 46	N8455A	PHIN	111 - 5	N8870F	PHIN	109 - 4	N74128W	PHIN	141 - 53	NE559J	PHIN	184 - 77
N8261F	PHIN	182 - 80	N8470A	PHIN	111 - 6	N8870J	PHIN	109 - 5	N74129F	PHIN	141 - 53	NE559N	PHIN	116 - 1
N8261Q	PHIN	182 - 81	N8470F	PHIN	111 - 7	N8875A	PHIN	93 - 43	N74129N	PHIN	141 - 53	NE559P	PHIN	116 - 2
N8262F	PHIN	173 - 35	N8470J	PHIN	109 - 96	N8875F	PHIN	93 - 44	N74129W	PHIN	141 - 53	NE559T	PHIN	116 - 3
N8262N	PHIN	173 - 36	N8470Q	PHIN	109 - 97	N8875J	PHIN	93 - 45	N74130F	PHIN	141 - 53	NE559V	PHIN	116 - 4
N8268F	PHIN	160 - 65	N8480F	PHIN	109 - 98	N8880A	PHIN	109 - 6	N74130N	PHIN	141 - 53	NE559W	PHIN	116 - 5
N8268W	PHIN	160 - 66	N8480J	PHIN	109 - 99	N8880F	PHIN	109 - 7	N74130W	PHIN	141 - 53	NE559X	PHIN	116 - 6
N8269F	PHIN	166 - 53	N8480Q	PHIN	109 - 100	N8881F	PHIN	109 - 8	N74131F	PHIN	141 - 53	NE559Y	PHIN	116 - 7
N8269W	PHIN	166 - 54	N8481A	PHIN	109 - 101	N8881J	PHIN	109 - 9	N74131N	PHIN	141 - 53	NE559Z	PHIN	116 - 8
N8280F	PHIN	140 - 15	N8481F	PHIN	93 - 71	N8881Q	PHIN	93 - 82	N74131W	PHIN	141 - 53	NE559AA	PHIN	116 - 9
N8280N	PHIN	140 - 16	N8481J	PHIN	93 - 72	N8881R	PHIN	93 - 83	N74132F	PHIN	141 - 53	NE559AB	PHIN	116 - 10
N8280Q	PHIN	151 - 33	N8481Q	PHIN	93 - 73	N8881S	PHIN	93 - 84	N74132N	PHIN	141 - 53	NE559AC	PHIN	116 - 11
N8281F	PHIN	145 - 10	N8806A	PHIN	113 - 60	N8881T	PHIN	93 - 85	N74132W	PHIN	141 - 53	NE559AD	PHIN	116 - 12
N8281N	PHIN	145 - 11	N8806F	PHIN	113 - 61	N8881U	PHIN	93 - 86	N74133F	PHIN	141 - 53	NE559AE	PHIN	116 - 13
N8281Q	PHIN	146 - 79	N8806J	PHIN	113 - 62	N8881V	PHIN	93 - 87	N74133N	PHIN	141 - 53	NE559AF	PHIN	116 - 14
N8284A	MULB	153 - 6	N8806Q	PHIN	108 - 108	N8881W	PHIN	93 - 88	N74133W	PHIN	141 - 53	NE559AG	PHIN	116 - 15
N8284F	MULB	153 - 7	N8808A	PHIN	108 - 109	N8881X	PHIN	93 - 89	N74134F	PHIN	141 - 53	NE559AH	PHIN	116 - 16
N8284Q	MULB	144 - 72	N8808F	PHIN	108 - 109	N8881Y	PHIN	93 - 90	N74134N	PHIN	141 - 53	NE559AI	PHIN	116 - 17
N8285A	MULB	142 - 22	N8815A	PHIN	93 - 41	N8881Z	PHIN	93 - 91	N74134W	PHIN	141 - 53	NE559AJ	PHIN	116 - 18
N8285F	MULB	142 - 23	N8815F	PHIN	93 - 42	N8881AA	PHIN	93 - 92	N74135F	PHIN	141 - 53	NE559AK	PHIN	116 - 19
N8285Q	MULB	139 - 85	N8815J	PHIN	108 - 110	N8881AB	PHIN	93 - 93	N74135N	PHIN	141 - 53	NE559AL	PHIN	116 - 20
N8288F	PHIN	146 - 80	N8816A	PHIN	108 - 110	N8881AC	PHIN	93 - 94	N74135W	PHIN	141 - 53	NE559AM	PHIN	116 - 21
N8288Q	PHIN	146 - 81	N8816F	PHIN	109 - 1	N8881AD	PHIN	93 - 95	N74136F	PHIN	141 - 53	NE559AN	PHIN	116 - 22
N8290F	PHIN	141 - 1	N8816J	PHIN	109 - 2	N8881AE	PHIN	93 - 96	N74136N	PHIN	141 - 53	NE559AO	PHIN	116 - 23
N8290N	PHIN	141 - 2	N8821J	PHIN	47 - 62	N8881AF	PHIN	93 - 97	N74136W	PHIN	141 - 53	NE559AP	PHIN	116 - 24
N8290Q	PHIN	143 - 6	N8822A	PHIN	47 - 63	N8881AG	PHIN	93 - 98	N74137F	PHIN	141 - 53	NE559AQ	PHIN	116 - 25
N8291F	PHIN	146 - 11	N8822F	PHIN	47 - 64	N8881AH	PHIN	93 - 99	N74137N	PHIN	141 - 53	NE559AR	PHIN	116 - 26
N8291N	PHIN	146 - 12	N8822J	PHIN	47 - 65	N8881AJ	PHIN	93 - 100	N74137W	PHIN	141 - 53	NE559AS	PHIN	116 - 27
N8291Q	PHIN	149 - 42	N8822Q	PHIN	47 - 66	N8881AK	PHIN	93 - 101	N74138F	PHIN	141 - 53	NE559AT	PHIN	116 - 28
			N8822W	PHIN	108 - 110	N8881AL	PHIN	93 - 102	N74138N	PHIN	141 - 53	NE559AU	PHIN	116 - 29
			N8822X	PHIN	108 - 110	N8881AM	PHIN	93 - 103	N74138W	PHIN	141 - 53	NE559AV	PHIN	116 - 30
			N8822Y	PHIN	108 - 110	N8881AN	PHIN	93 - 104	N74139F	PHIN	141 - 53	NE559AW	PHIN	116 - 31
			N8822Z	PHIN	108 - 110	N8881AO	PHIN	93 - 105	N74139N	PHIN	141 - 53	NE559AX	PHIN	116 - 32
			N8823A	PHIN	108 - 110	N8881AP	PHIN	93 - 106	N74139W	PHIN	141 - 53	NE559AY	PHIN	116 - 33
			N8823B	PHIN	108 - 110	N8881AQ	PHIN	93 - 107	N74140F	PHIN	141 - 53	NE559AZ	PHIN	116 - 34
			N8823C	PHIN	108 - 110	N8881AR	PHIN	93 - 108	N74140N	PHIN	141 - 53	NE559BA	PHIN	116 - 35
			N8823D	PHIN	108 - 110	N8881AS	PHIN	93 - 109	N74140W	PHIN	141 - 53	NE559BB	PHIN	116 - 36
			N8823E	PHIN	108 - 110	N8881AT	PHIN	93 - 110	N74141F	PHIN	141 - 53	NE559BC	PHIN	116 - 37
			N8823F	PHIN	108 - 110	N8881AU	PHIN	93 - 111	N74141N	PHIN	141 - 53	NE559BD	PHIN	116 - 38
			N8823G	PHIN	108 - 110	N8881AV	PHIN	93 - 112	N74141W	PHIN	141 - 53	NE559BE	PHIN	116 - 39
			N8823H	PHIN	108 - 110	N8881AW	PHIN	93 - 113	N74142F	PHIN	141 - 53	NE559BF	PHIN	116 - 40
			N8823I	PHIN	108 - 110	N8881AX	PHIN	93 - 114	N74142N	PHIN	141 - 53	NE559BG	PHIN	116 - 41
			N8823J	PHIN	108 - 110	N8881AY	PHIN	93 - 115	N74142W	PHIN	141 - 53	NE559BH	PHIN	116 - 42
			N8823K	PHIN	108 - 110	N8881AZ	PHIN	93 - 116	N74143F	PHIN	141 - 53	NE559BI	PHIN	116 - 43
			N8823L	PHIN	108 - 110	N8881BA	PHIN	93 - 117	N74143N	PHIN	141 - 53	NE559BJ	PHIN	116 - 44
			N8823M	PHIN	108 - 110	N8881BB	PHIN	93 - 118	N74143W	PHIN	141 - 53	NE559BK	PHIN	116 - 45
			N8823N	PHIN	108 - 110	N8881BC	PHIN	93 - 119	N74144F	PHIN	141 - 53	NE559BL	PHIN	116 - 46
			N8823O	PHIN	108 - 110	N8881BD	PHIN	93 - 120	N74144N	PHIN	141 - 53	NE559BM	PHIN	116 - 47
			N8823P	PHIN	108 - 110	N8881BE	PHIN	93 - 121	N74144W	PHIN	141 - 53	NE559BN	PHIN	116 - 48
			N8823Q	PHIN	108 - 110	N8881BF	PHIN	9						

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RF113CK	RTN	48-57	RG71CK	RTN	88-66	RG183CK	RTN	81-56	RG291CK	RTN	114-71
RF113DC	RTN	48-58	RG71DC	RTN	88-67	RG183DC	RTN	81-57	RG291DC	RTN	114-72
RF120CJ	RTN	48-59	RG72CJ	RTN	88-68	RG200CJ	RTN	109-36	RG292CJ	RTN	114-73
RF120CK	RTN	48-60	RG72CK	RTN	88-69	RG200CK	RTN	109-37	RG292CK	RTN	114-74
RF120DC	RTN	48-61	RG72DC	RTN	88-70	RG200DC	RTN	109-38	RG292DC	RTN	114-75
RF121CJ	RTN	48-62	RG73CJ	RTN	88-71	RG201CJ	RTN	109-39	RG293CJ	RTN	114-76
RF121CK	RTN	48-63	RG73CK	RTN	88-72	RG201CK	RTN	109-40	RG293CK	RTN	114-77
RF121DC	RTN	48-64	RG73DC	RTN	88-73	RG201DC	RTN	109-41	RG293DC	RTN	114-78
RF122CJ	RTN	48-65	RG80CJ	RTN	81-34	RG202CJ	RTN	109-24	RG300CJ	RTN	89-44
RF122CK	RTN	48-66	RG80CK	RTN	81-35	RG202CK	RTN	109-25	RG300CK	RTN	89-45
RF122DC	RTN	48-67	RG80DC	RTN	81-36	RG202DC	RTN	109-26	RG300DC	RTN	89-46
RF123CJ	RTN	48-68	RG81CJ	RTN	81-37	RG203CJ	RTN	109-27	RG301CJ	RTN	89-47
RF123CK	RTN	48-69	RG81CK	RTN	81-38	RG203CK	RTN	109-28	RG301CK	RTN	89-48
RF123DC	RTN	48-70	RG81DC	RTN	81-39	RG203DC	RTN	109-29	RG301DC	RTN	89-49
RF130CJ	RTN	48-71	RG82CJ	RTN	81-40	RG210CJ	RTN	88-98	RG302CJ	RTN	89-50
RF130CK	RTN	48-72	RG82CK	RTN	81-41	RG210CK	RTN	88-99	RG302CK	RTN	89-51
RF130DC	RTN	48-73	RG82DC	RTN	81-42	RG210DC	RTN	88-100	RG302DC	RTN	89-52
RF131CJ	RTN	48-74	RG83CJ	RTN	81-43	RG211CJ	RTN	88-101	RG303CJ	RTN	89-53
RF131CK	RTN	48-75	RG83CK	RTN	81-44	RG211CK	RTN	88-102	RG303CK	RTN	89-54
RF131DC	RTN	48-76	RG83DC	RTN	81-45	RG211DC	RTN	89-1	RG303DC	RTN	89-55
RF132CJ	RTN	48-77	RG90CJ	RTN	113-54	RG212CJ	RTN	89-2	RG310CJ	RTN	89-56
RF132CK	RTN	48-78	RG90CK	RTN	113-55	RG212CK	RTN	89-3	RG310CK	RTN	89-57
RF132DC	RTN	48-79	RG90DC	RTN	113-56	RG212DC	RTN	89-4	RG310DC	RTN	89-58
RF133CJ	RTN	48-80	RG91CJ	RTN	113-57	RG213CJ	RTN	89-5	RG311CJ	RTN	89-59
RF133CK	RTN	48-81	RG91CK	RTN	113-58	RG213CK	RTN	89-6	RG311CK	RTN	89-60
RF133DC	RTN	48-82	RG91DC	RTN	113-59	RG213DC	RTN	89-7	RG311DC	RTN	89-61
RF200CJ	RTN	48-83	RG92CJ	RTN	113-48	RG220CJ	RTN	109-108	RG312CJ	RTN	89-62
RF200CK	RTN	48-84	RG92CK	RTN	113-49	RG220CK	RTN	109-109	RG312CK	RTN	89-63
RF200DC	RTN	48-85	RG92DC	RTN	113-50	RG220DC	RTN	109-110	RG312DC	RTN	89-64
RF201CJ	RTN	48-86	RG93CJ	RTN	113-51	RG221CJ	RTN	110-1	RG313CJ	RTN	89-65
RF201CK	RTN	48-87	RG93CK	RTN	113-52	RG221CK	RTN	110-2	RG313CK	RTN	89-66
RF201DC	RTN	48-88	RG93DC	RTN	113-53	RG221DC	RTN	110-3	RG313DC	RTN	89-67
RF202CJ	RTN	48-89	RG100CJ	RTN	88-74	RG222CJ	RTN	110-4	RG320CJ	RTN	109-54
RF202CK	RTN	48-90	RG100CK	RTN	88-75	RG222CK	RTN	110-5	RG320CK	RTN	109-55
RF202DC	RTN	48-91	RG100DC	RTN	88-76	RG222DC	RTN	110-6	RG320DC	RTN	109-56
RF203CJ	RTN	48-92	RG101CJ	RTN	88-77	RG223CJ	RTN	110-7	RG321CJ	RTN	109-57
RF203CK	RTN	48-93	RG101CK	RTN	88-78	RG223CK	RTN	110-8	RG321CK	RTN	109-58
RF203DC	RTN	48-94	RG101DC	RTN	88-79	RG223DC	RTN	110-9	RG321DC	RTN	109-59
RF210CJ	RTN	48-95	RG102CJ	RTN	88-80	RG230CJ	RTN	89-8	RG322CJ	RTN	109-42
RF210CK	RTN	48-96	RG102CK	RTN	88-81	RG230CK	RTN	89-9	RG322CK	RTN	109-43
RF210DC	RTN	48-97	RG102DC	RTN	88-82	RG230DC	RTN	89-10	RG322DC	RTN	109-44
RF211CJ	RTN	48-98	RG103CJ	RTN	88-83	RG231CJ	RTN	89-11	RG323CJ	RTN	109-45
RF211CK	RTN	48-99	RG103CK	RTN	88-84	RG231CK	RTN	89-12	RG323CK	RTN	109-46
RF211DC	RTN	48-100	RG103DC	RTN	88-85	RG231DC	RTN	89-13	RG323DC	RTN	109-47
RF212CJ	RTN	48-101	RG110CJ	RTN	88-86	RG232CJ	RTN	89-14	S8H16A	MULB	110-105
RF212CK	RTN	48-102	RG110CK	RTN	88-87	RG232CK	RTN	89-15	S8H16F	MULB	110-106
RF212DC	RTN	48-103	RG110DC	RTN	88-88	RG232DC	RTN	89-16	S8H16J	MULB	110-107
RF213CJ	RTN	48-104	RG111CJ	RTN	88-89	RG233CJ	RTN	89-17	S8H20Q	MULB	47-79
RF213CK	RTN	48-105	RG111CK	RTN	88-90	RG233CK	RTN	89-18	S8H21A	MULB	47-80
RF213DC	RTN	48-106	RG111DC	RTN	88-91	RG233DC	RTN	89-19	S8H21F	MULB	47-81
RF250CJ	RTN	47-108	RG125CJ	RTN	88-92	RG240CJ	RTN	110-10	S8H21Q	MULB	47-82
RF250CK	RTN	47-109	RG125CK	RTN	88-93	RG240CK	RTN	110-11	S8H22B	MULB	47-83
RF250DC	RTN	47-110	RG125DC	RTN	88-94	RG240DC	RTN	110-12	S8H22E	MULB	47-84
RF251CJ	RTN	48-1	RG131CJ	RTN	88-95	RG241CJ	RTN	110-13	S8H70A	MULB	110-108
RF251CK	RTN	48-2	RG131CK	RTN	88-96	RG241CK	RTN	110-14	S8H70J	MULB	110-109
RF251DC	RTN	48-3	RG131DC	RTN	88-97	RG241DC	RTN	110-15	S8H80A	MULB	110-110
RF252CJ	RTN	47-102	RG120CJ	RTN	109-48	RG242CJ	RTN	110-16	S8H80J	MULB	111-1
RF252CK	RTN	47-103	RG120CK	RTN	109-49	RG242CK	RTN	110-17	S8T01B	MULB	118-25
RF252DC	RTN	47-104	RG120DC	RTN	109-50	RG242DC	RTN	110-18	S8T01E	MULB	118-26
RF253CJ	RTN	47-105	RG121CJ	RTN	109-51	RG243CJ	RTN	110-19	S8T20F	MULB	126-45
RF253CK	RTN	47-106	RG121CK	RTN	109-52	RG243CK	RTN	110-20	S8T20N	MULB	126-46
RF253DC	RTN	47-107	RG121DC	RTN	109-53	RG243DC	RTN	110-21	S8T22F	MULB	125-29
RF260CJ	RTN	48-107	RG122CJ	RTN	109-30	RG250CJ	RTN	89-20	S8T22N	MULB	125-30
RF260CK	RTN	48-108	RG122CK	RTN	109-31	RG250CK	RTN	89-21	S8TS805F	MULB	179-67
RF260DC	RTN	48-109	RG122DC	RTN	109-32	RG250DC	RTN	89-22	S8TS806F	MULB	54-17
RF261CJ	RTN	48-110	RG123CJ	RTN	109-33	RG251CJ	RTN	89-23	S8TS807F	MULB	179-68
RF261CK	RTN	49-1	RG123CK	RTN	109-34	RG251CK	RTN	89-24	S8TS808F	MULB	54-18
RF261DC	RTN	49-2	RG123DC	RTN	109-35	RG251DC	RTN	89-25	S8TS809F	MULB	179-69
RF262CJ	RTN	49-3	RG140CJ	RTN	109-84	RG252CJ	RTN	89-26	S8X01AF	MULB	182-71
RF262CK	RTN	49-4	RG140CK	RTN	109-85	RG252CK	RTN	89-27	S54F00F	MULB	105-41
RF262DC	RTN	49-5	RG140DC	RTN	109-86	RG252DC	RTN	89-28	S54F00W	MULB	105-42
RF263CJ	RTN	49-6	RG141CJ	RTN	109-87	RG253CJ	RTN	89-29	S54F02F	MULB	92-38
RF263CK	RTN	49-7	RG141CK	RTN	109-88	RG253CK	RTN	89-30	S54F02W	MULB	92-39
RF263DC	RTN	49-8	RG141DC	RTN	109-89	RG253DC	RTN	89-31	S54F04F	MULB	115-59
RG400CJ	RTN	109-60	RG142CJ	RTN	109-90	RG260CJ	RTN	110-22	S54F04W	MULB	115-60
RG400CK	RTN	109-61	RG142CK	RTN	109-91	RG260CK	RTN	110-23	S54F08F	MULB	80-11
RG400DC	RTN	109-62	RG142DC	RTN	109-92	RG260DC	RTN	110-24	S54F08W	MULB	80-12
RG41CJ	RTN	109-63	RG143CJ	RTN	109-93	RG261CJ	RTN	110-25	S54F10F	MULB	105-43
RG41CK	RTN	109-64	RG143CK	RTN	109-94	RG261CK	RTN	110-26	S54F10W	MULB	105-44
RG41DC	RTN	109-65	RG143DC	RTN	109-95	RG261DC	RTN	110-27	S54F11F	MULB	80-13
RG42CJ	RTN	109-66	RG150CJ	RTN	114-43	RG262CJ	RTN	110-28	S54F11W	MULB	80-14
RG42CK	RTN	109-67	RG150CK	RTN	114-44	RG262CK	RTN	110-29	S54F20F	MULB	105-45
RG42DC	RTN	109-68	RG150DC	RTN	114-45	RG262DC	RTN	110-30	S54F20W	MULB	105-45
RG43CJ	RTN	109-69	RG151CJ	RTN	114-46	RG263CJ	RTN	110-31	S54F22F	MULB	114-4
RG43CK	RTN	109-70	RG151CK	RTN	114-47	RG263CK	RTN	110-32	S54F22N	MULB	114-5
RG43DC	RTN	109-71	RG151DC	RTN	114-48	RG263DC	RTN	110-33	S54H51F	MULB	86-36
RG50CJ	RTN	88-56	RG152CJ	RTN	114-49	RG270CJ	RTN	89-32	S54H51W	MULB	86-37
RG50CK	RTN	88-57	RG152CK	RTN	114-50	RG270CK	RTN	89-33	S54H52F	MULB	114-6
RG50DC	RTN	88-58	RG152DC	RTN	114-51	RG270DC	RTN	89-34	S54H52W	MULB	114-7
RG51CJ	RTN	88-59	RG153CJ	RTN	114-52	RG271CJ	RTN	89-35	S54H53F	MULB	114-8
RG51CK	RTN	88-60	RG153CK	RTN	114-53	RG271CK	RTN	89-36	S54H53W	MULB	114-9
RG51DC	RTN	88-61	RG153DC	RTN	114-54	RG271DC	RTN	89-37	S54H54F	MULB	86-38
RG52CJ	RTN	88-50	RG170CJ	RTN	114-55	RG272CJ	RTN	89-38	S54H54W	MULB	86-39
RG52CK	RTN	88-51	RG170CK	RTN	114-56	RG272CK	RTN	89-39	S54H55F	MULB	114-10
RG52DC	RTN	88-52	RG170DC	RTN	114-57	RG272DC	RTN	89-40	S54H55W	MULB	86-40
RG53CJ	RTN	88-53	RG171CJ	RTN	114-58	RG273CJ	RTN	89-41	S54H60F	MULB	114-11
RG53CK	RTN	88-54	RG171CK	RTN	114-59	RG273CK	RTN	89-42	S54H60W	MULB	114-12
RG53DC	RTN	88-55	RG171DC	RTN	114-60	RG273DC	RTN	89-43	S54H61F	MULB	114-13
RG60CJ	RTN	109-72	RG172CJ	RTN	114-61	RG280CJ	RTN	81-58	S54H61W	MULB	114-14
RG60CK	RTN	109-73	RG172CK	RTN	114-62	RG280CK	RTN	81-59	S54H62F	MULB	114-15
RG60DC	RTN	109-74	RG172DC	RTN	114-63	RG280DC	RTN	81-60	S54H62W	MULB	114-16
RG61CJ	RTN	109-75	RG173CJ	RTN	114-64	RG281CJ	RTN	81-61	S54H71F	MULB	45-93
RG61CK	RTN	109-76	RG173CK	RTN	114-65	RG281CK	RTN	81-62			
RG61DC	RTN	109-77	RG173DC	RTN	114-66	RG281DC	RTN	81-63			
RG62CJ	RTN	109-78	RG180CJ	RTN	81-46	RG282CJ	RTN	81-64			
RG62CK	RTN										

3. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
S54H71W	PHIN	45 - 94	S54LS26F	PHIN	97 - 45	S54LS93W	MULB	145 - 58	S54LS192F	MULB	152 - 34	S54LS390W	MULB	141 - 4
S54H72F	PHIN	45 - 95	(cont.)	PHIN		S54LS107F	RTCF		PHIN			PHIN	RTCF	
S54H72W	PHIN	45 - 96	S54LS26W	MULB	97 - 45	S54LS107F	VALG	42 - 9	S54LS192W	VALG	152 - 35	S54LS393F	VALG	147 - 2
S54H73F	PHIN	45 - 97	PHIN	RTCF		PHIN	SIC		PHIN	SIC		PHIN	RTCF	
S54H73W	PHIN	45 - 98	S54LS27F	MULB	90 - 33	S54LS107W	VALG	42 - 10	S54LS193F	VALG	150 - 77	S54LS393W	VALG	147 - 3
S54H74F	PHIN	52 - 57	PHIN	VALG	90 - 34	PHIN	SIC		PHIN	SIC		PHIN	RTCF	
S54H74W	PHIN	52 - 58	S54LS27W	MULB	90 - 34	S54LS109F	VALG	42 - 11	S54LS193W	VALG	150 - 78	S54LS490F	VALG	141 - 59
S54H76F	PHIN	46 - 1	PHIN	VALG	97 - 46	PHIN	SIC		PHIN	SIC		PHIN	RTCF	
S54H76W	PHIN	46 - 2	S54LS30F	MULB	97 - 46	PHIN	VALG	42 - 12	S54LS196F	MULB	142 - 24	S54LS490W	MULB	141 - 60
S54H101F	PHIN	46 - 3	PHIN	RTCF		PHIN	SIC		PHIN	SIC		PHIN	VALG	
S54H101W	PHIN	46 - 4	S54LS30W	MULB	97 - 47	S54LS109W	VALG	42 - 13	S54LS196W	VALG	142 - 25	S54LS568AF	SIC	142 - 70
S54H102F	PHIN	46 - 5	PHIN	VALG	87 - 68	PHIN	SIC		PHIN	SIC		S54LS568F	MULB	144 - 6
S54H102W	PHIN	46 - 6	S54LS32F	MULB	87 - 68	S54LS112F	VALG	42 - 14	S54LS197F	MULB	147 - 93	PHIN	SIC	
S54H103F	PHIN	46 - 7	PHIN	RTCF		PHIN	SIC		PHIN	SIC		PHIN	VALG	
S54H103W	PHIN	46 - 8	S54LS32W	MULB	87 - 69	S54LS112W	VALG	42 - 15	S54LS197W	VALG	147 - 94	S54LS569AF	SIC	148 - 70
S54H106F	PHIN	46 - 9	PHIN	VALG	120 - 14	PHIN	SIC		PHIN	SIC		S54LS569F	MULB	150 - 79
S54H106W	PHIN	46 - 10	S54LS32W	MULB	120 - 14	S54LS113F	VALG	42 - 16	S54LS197W	VALG	147 - 94	PHIN	SIC	
S54H108F	PHIN	46 - 11	PHIN	RTCF		PHIN	SIC		PHIN	SIC		PHIN	VALG	
S54H108W	PHIN	46 - 12	S54LS42F	MULB	120 - 15	S54LS113W	VALG	42 - 17	S54LS221F	MULB	127 - 3	S54S00F	MULB	105 - 59
S54LS00F	PHIN	97 - 30	PHIN	VALG	120 - 15	PHIN	SIC		PHIN	SIC		PHIN	SIC	
S54LS00W	PHIN	97 - 31	S54LS42W	MULB	120 - 15	S54LS114F	VALG	42 - 17	S54LS221W	VALG	127 - 4	S54S00W	MULB	105 - 60
S54LS01F	PHIN	97 - 32	PHIN	RTCF		PHIN	SIC		PHIN	SIC		PHIN	SIC	
S54LS01W	PHIN	97 - 33	S54LS51F	MULB	83 - 24	S54LS114W	VALG	42 - 18	S54LS256F	MULB	179 - 9	PHIN	SIC	
S54LS02F	PHIN	90 - 31	PHIN	VALG	83 - 25	PHIN	SIC		PHIN	SIC		PHIN	VALG	
S54LS02W	PHIN	90 - 32	S54LS51W	MULB	83 - 25	S54LS123AF	VALG	127 - 1	S54LS256W	MULB	179 - 10	S54S02W	MULB	92 - 41
S54LS03F	PHIN	97 - 34	PHIN	RTCF		PHIN	SIC		PHIN	SIC		PHIN	SIC	
S54LS03W	PHIN	97 - 35	S54LS54F	MULB	83 - 26	S54LS123AW	VALG	127 - 2	S54LS259F	MULB	180 - 106	S54S03F	MULB	105 - 61
S54LS04F	PHIN	115 - 28	PHIN	VALG	83 - 27	PHIN	SIC		PHIN	SIC		PHIN	VALG	
S54LS04W	PHIN	115 - 29	S54LS54W	MULB	83 - 27	S54LS136F	VALG	111 - 48	S54LS259W	MULB	180 - 107	S54S03W	MULB	105 - 62
S54LS08F	PHIN	77 - 20	PHIN	RTCF		PHIN	SIC		PHIN	SIC		PHIN	SIC	
S54LS08W	PHIN	77 - 21	S54LS55F	MULB	83 - 28	S54LS136W	VALG	111 - 49	PHIN	SIC		PHIN	SIC	
S54LS09F	PHIN	77 - 22	PHIN	VALG	83 - 29	PHIN	SIC		PHIN	SIC		PHIN	SIC	
S54LS09W	PHIN	77 - 23	S54LS55W	MULB	83 - 29	S54LS138F	VALG	121 - 83	S54LS260F	MULB	90 - 35	PHIN	SIC	
S54LS10F	PHIN	97 - 36	PHIN	RTCF		S54LS138W	VALG	121 - 84	PHIN	SIC		PHIN	VALG	
S54LS10W	PHIN	97 - 37	S54LS73F	MULB	42 - 3	S54LS156F	MULB	118 - 78	S54LS260W	MULB	90 - 36	PHIN	SIC	
S54LS11F	PHIN	77 - 24	PHIN	VALG	42 - 4	S54LS156W	VALG	118 - 79	PHIN	SIC		PHIN	VALG	
S54LS11W	PHIN	77 - 25	S54LS73W	MULB	42 - 4	S54LS160AF	MULB	141 - 55	S54LS261F	MULB	163 - 27	S54S08W	MULB	80 - 22
S54LS12F	PHIN	97 - 38	PHIN	RTCF		PHIN	SIC		PHIN	SIC		PHIN	SIC	
S54LS12W	PHIN	97 - 39	S54LS75F	MULB	177 - 54	S54LS160AW	VALG	141 - 56	S54LS261W	MULB	163 - 28	PHIN	SIC	
S54LS15F	PHIN	77 - 26	PHIN	VALG	177 - 55	PHIN	SIC		PHIN	SIC		PHIN	SIC	
S54LS15W	PHIN	77 - 27	S54LS75W	MULB	177 - 55	S54LS161AF	VALG	148 - 66	S54LS266F	MULB	114 - 100	S54S10F	MULB	105 - 63
S54LS20F	PHIN	97 - 40	PHIN	RTCF		PHIN	SIC		PHIN	SIC		PHIN	SIC	
S54LS20W	PHIN	97 - 41	S54LS77F	MULB	177 - 46	S54LS161AW	VALG	148 - 67	S54LS266W	MULB	115 - 1	S54S10W	MULB	105 - 64
S54LS21F	PHIN	77 - 28	PHIN	VALG	177 - 46	PHIN	SIC		PHIN	SIC		PHIN	SIC	
S54LS21W	PHIN	77 - 29	S54LS77W	MULB	177 - 46	S54LS162AF	VALG	141 - 57	S54LS273F	MULB	53 - 43	S54S11F	MULB	80 - 25
S54LS22F	PHIN	97 - 42	PHIN	RTCF		PHIN	SIC		PHIN	SIC		PHIN	SIC	
S54LS22W	PHIN	97 - 43	S54LS78F	MULB	42 - 7	S54LS162AW	VALG	141 - 58	S54LS279F	MULB	177 - 30	S54S11W	MULB	80 - 26
S54LS26F	PHIN	97 - 44	PHIN	VALG	42 - 8	PHIN	SIC		PHIN	SIC		PHIN	SIC	
cont.next col.			S54LS78W	MULB	42 - 8	S54LS163AF	VALG	148 - 68	S54LS279W	MULB	177 - 31	S54S15F	MULB	80 - 27
			PHIN	RTCF		PHIN	SIC		PHIN	SIC		PHIN	VALG	
			S54LS83AF	MULB	161 - 50	S54LS163AW	VALG	148 - 69	S54LS283F	MULB	161 - 54	S54S15W	MULB	80 - 28
			PHIN	VALG	161 - 50	PHIN	SIC		PHIN	SIC		PHIN	VALG	
			S54LS83AW	MULB	161 - 51	S54LS168AF	VALG	144 - 4	S54LS283W	MULB	161 - 55	S54S20F	MULB	105 - 65
			PHIN	RTCF		PHIN	SIC		PHIN	SIC		PHIN	SIC	
			S54LS83F	MULB	161 - 52	S54LS168AW	VALG	144 - 5	S54LS290F	MULB	142 - 26	S54S20W	MULB	105 - 66
			PHIN	VALG	161 - 52	PHIN	SIC		PHIN	SIC		PHIN	SIC	
			S54LS83W	MULB	161 - 53	S54LS168AW	VALG	144 - 5	S54LS290W	MULB	142 - 27	PHIN	SIC	
			PHIN	RTCF		PHIN	SIC		PHIN	SIC		PHIN	SIC	
			S54LS85F	MULB	166 - 65	S54LS169AF	VALG	150 - 75	S54LS293F	MULB	145 - 59	S54S22W	MULB	105 - 68
			PHIN	VALG	166 - 65	PHIN	SIC		PHIN	SIC		PHIN	VALG	
			S54LS85W	MULB	166 - 66	S54LS169AW	VALG	150 - 76	S54LS293W	MULB	145 - 60	S54S32F	MULB	88 - 21
			PHIN	RTCF		PHIN	SIC		PHIN	SIC		PHIN	VALG	
			S54LS86F	MULB	111 - 46	S54LS173F	VALG	53 - 37	S54LS293W	MULB	145 - 60	S54S32W	MULB	88 - 22
			PHIN	VALG	111 - 46	PHIN	SIC		PHIN	SIC		PHIN	VALG	
			S54LS86W	MULB	111 - 47	S54LS173W	VALG	53 - 38	S54LS363F	MULB	180 - 61	S54S51F	MULB	82 - 49
			PHIN	RTCF		PHIN	SIC		PHIN	SIC		PHIN	SIC	
			S54LS88F	MULB	140 - 45	S54LS174F	VALG	53 - 39	S54LS363W	MULB	180 - 61	PHIN	SIC	
			PHIN	VALG	140 - 45	S54LS174W	VALG	53 - 40	PHIN	SIC		PHIN	SIC	
			S54LS89F	MULB	140 - 46	S54LS175F	SIC	53 - 41	S54LS364F	MULB	53 - 44	S54S64F	MULB	86 - 41
			PHIN	RTCF		S54LS175W	VALG	53 - 42	PHIN	SIC		PHIN	VALG	
			S54LS90F	MULB	140 - 46	S54LS181F	SIC	169 - 37	RTCF			PHIN	VALG	
			PHIN	VALG	140 - 46	PHIN	SIC		PHIN	SIC		PHIN	VALG	
			S54LS90W	MULB	140 - 46	S54LS181Q	VALG	169 - 38	S54LS373F	MULB	181 - 8	S54S65F	MULB	86 - 43
			PHIN	RTCF		PHIN	SIC		PHIN	SIC		PHIN	VALG	
			S54LS92F	MULB	153 - 21	S54LS181W	VALG	169 - 39	S54LS374F	MULB	53 - 45	S54S65W	MULB	86 - 44
			PHIN	VALG	153 - 21	PHIN	SIC		PHIN	SIC		PHIN	VALG	
			S54LS92W	MULB	153 - 22	S54LS181W	VALG	169 - 40	S54LS375F	MULB	177 - 56	S54S74F	MULB	52 - 59
			PHIN	RTCF		PHIN	SIC		PHIN	SIC		PHIN	SIC	
			S54LS93F	MULB	145 - 57	S54LS190F	VALG	143 - 98	PHIN	SIC		PHIN	SIC	
			PHIN	VALG	145 - 57	PHIN	SIC		PHIN	SIC		PHIN	SIC	
			S54LS93W	MULB	145 - 57	S54LS190W	VALG	143 - 99	S54LS375W	MULB	177 - 57	S54S74W	MULB	52 - 60
			PHIN	RTCF		PHIN	SIC		PHIN	SIC		PHIN	SIC	
			S54LS93W	MULB	145 - 57	S54LS191F	VALG	150 - 59	S54LS377F	MULB	53 - 46	S54S85F	MULB	166 - 7
			PHIN	VALG	145 - 57	PHIN	SIC		PHIN	SIC		PHIN	SIC	
			S54LS93W	MULB	145 - 57	S54LS191W	VALG	150 - 60	RTCF			PHIN	SIC	
			PHIN	RTCF		PHIN	SIC		PHIN	SIC		PHIN	SIC	
			S54LS93W	MULB	145 - 57	S54LS191W	VALG	150 - 60	S54LS378F	MULB	53 - 47	S54S85W	MULB	166 - 8

3. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
S54S112F	◆MULB	46 - 13	S5408W	MULB	80 - 30	S5474F	◆MULB	52 - 61	S8291F	MULB	146 - 13	S8825F	MULB	47 - 91
	◆SIC		PHIN	VALG		PHIN	◆SIC		PHIN	VALG		S8825J	PHIN	47 - 92
	VALG		S5409F	MULB	80 - 31	S5474W	◆MULB	52 - 62	S8291W	MULB	146 - 14	S8826A	MULB	47 - 93
S54S112W	◆MULB	46 - 14	PHIN	VALG		PHIN	◆SIC		S8292F	MULB	139 - 96	S8826F	PHIN	47 - 94
	◆SIC		S5409W	MULB	80 - 32	S5475F	◆MULB	177 - 70	PHIN	VALG		S8826J	MULB	47 - 95
	VALG		PHIN	VALG		PHIN	◆SIC		S8292W	MULB	139 - 97	S8827A	PHIN	47 - 96
S54S113F	◆MULB	46 - 15	S5410F	MULB	105 - 80	S5475W	◆MULB	177 - 71	PHIN	VALG		S8827F	MULB	47 - 97
	◆SIC		PHIN	VALG		PHIN	◆SIC		S8293F	MULB	144 - 87	S8827J	PHIN	47 - 98
	VALG		S5410W	MULB	105 - 81	S5476F	◆MULB	46 - 25	PHIN	VALG		S8828A	MULB	54 - 55
S54S113W	◆MULB	46 - 16	PHIN	VALG		S5476W	◆MULB	46 - 26	PHIN	VALG		S8828F	PHIN	54 - 56
	◆SIC		S5411F	◆MULB	80 - 33	PHIN	◆SIC		S8415A	MULB	68 - 3	S8828J	MULB	54 - 57
	VALG		PHIN	◆SIC		S5477W	◆MULB	46 - 26	PHIN	VALG		S8829A	PHIN	47 - 99
S54S114F	MULB	46 - 17	S5412F	MULB	105 - 82	PHIN	◆SIC		S8415A	MULB	68 - 3	S8829F	MULB	47 - 100
	VALG		PHIN	VALG		S5477W	◆MULB	46 - 26	S8415A	MULB	68 - 3	S8829J	PHIN	47 - 101
S54S114W	MULB	46 - 18	S5412W	MULB	105 - 83	PHIN	◆SIC		S8415F	MULB	68 - 4	S8840A	MULB	113 - 17
	VALG		PHIN	VALG		S5478W	◆MULB	46 - 26	PHIN	VALG		S8840F	PHIN	113 - 18
S54S133F	◆MULB	105 - 69	S5412W	MULB	105 - 83	PHIN	◆SIC		S8415F	MULB	68 - 4	S8840J	MULB	113 - 19
	◆SIC		PHIN	VALG		S5479W	◆MULB	46 - 26	S8415F	MULB	68 - 4	S8848A	PHIN	87 - 28
	VALG		S5420F	◆MULB	105 - 84	PHIN	◆SIC		S8415F	MULB	68 - 4	S8848F	MULB	87 - 29
S54S133W	◆MULB	105 - 70	PHIN	VALG		S5480F	◆MULB	160 - 70	S8415F	MULB	68 - 4	S8848J	PHIN	87 - 30
	◆SIC		S5420W	◆MULB	105 - 85	PHIN	◆SIC		S8416F	MULB	69 - 40	S8855A	MULB	111 - 2
	VALG		PHIN	◆SIC		S5480W	◆MULB	160 - 71	S8416F	MULB	69 - 40	S8855F	PHIN	111 - 3
S54S134F	◆MULB	105 - 71	S5421F	MULB	80 - 35	PHIN	◆SIC		S8416J	MULB	69 - 41	S8855J	MULB	111 - 4
	◆SIC		PHIN	VALG		S5483F	◆MULB	162 - 17	S8416J	MULB	69 - 41	S8870A	PHIN	109 - 15
	VALG		S5421W	MULB	80 - 36	PHIN	◆SIC		S8417A	MULB	68 - 6	S8870F	PHIN	109 - 16
S54S134W	◆MULB	105 - 72	PHIN	VALG		S5483W	◆MULB	162 - 18	S8417A	MULB	68 - 6	S8870J	PHIN	109 - 17
	◆SIC		S5423F	MULB	92 - 46	PHIN	◆SIC		S8417F	MULB	68 - 7	S8875A	MULB	93 - 51
S54S135F	◆MULB	113 - 42	PHIN	VALG		S5485F	◆MULB	166 - 28	S8417F	MULB	68 - 7	S8875F	PHIN	93 - 52
	◆SIC		S5423W	MULB	92 - 47	PHIN	◆SIC		S8424A	MULB	38 - 95	S8875J	MULB	93 - 53
	VALG		PHIN	SIC		S5485W	◆MULB	166 - 28	S8424A	MULB	38 - 95	S8880A	PHIN	109 - 18
S54S135W	◆MULB	113 - 43	PHIN	VALG		PHIN	◆SIC		S8424F	MULB	38 - 96	S8880F	PHIN	109 - 19
	◆SIC		S5427F	MULB	92 - 47	PHIN	◆SIC		S8424J	MULB	38 - 97	S8880J	MULB	109 - 20
	VALG		PHIN	SIC		S5485W	◆MULB	166 - 29	S8424J	MULB	38 - 97	S8880J	MULB	109 - 20
S54S138F	◆MULB	121 - 85	PHIN	VALG		PHIN	◆SIC		S8424J	MULB	38 - 97	S8881A	PHIN	93 - 84
S54S138W	◆MULB	121 - 86	PHIN	VALG		PHIN	◆SIC		S8424J	MULB	38 - 97	S8881F	PHIN	109 - 21
S54S140A	MULB	105 - 73	S5425F	◆MULB	92 - 48	PHIN	◆SIC		S8425A	MULB	38 - 98	S8881J	MULB	93 - 85
	◆SIC		PHIN	◆SIC		S5486F	◆MULB	88 - 25	S8425A	MULB	38 - 98	S8885A	PHIN	93 - 54
S54S168F	◆MULB	144 - 11	S5425W	◆MULB	92 - 49	PHIN	◆SIC		S8425F	MULB	38 - 99	S8885J	MULB	93 - 56
	◆SIC		PHIN	◆SIC		S5486W	◆MULB	88 - 26	S8425F	MULB	38 - 99	S9308F	PHIN	178 - 79
S54S169F	◆MULB	148 - 87	S5426F	◆MULB	105 - 86	PHIN	◆SIC		S8425J	MULB	38 - 100	S9308Q	PHIN	178 - 80
	◆SIC		PHIN	◆SIC		S5490F	◆MULB	140 - 18	S8425J	MULB	38 - 100	S9314F	PHIN	178 - 58
S54S174F	◆SIC	54 - 23	S5427F	MULB	92 - 50	PHIN	◆SIC		S8440A	MULB	113 - 25	S9314W	PHIN	178 - 59
S54S174W	◆SIC	54 - 24	PHIN	VALG		PHIN	◆SIC		S8440A	MULB	113 - 25	S9324F	PHIN	166 - 86
S54S181F	◆MULB	169 - 12	S5427W	MULB	92 - 51	PHIN	◆SIC		S8440A	MULB	113 - 25	S9324W	PHIN	166 - 87
	◆SIC		PHIN	VALG		S5490W	◆MULB	140 - 19	S8440A	MULB	113 - 25	S9334F	PHIN	180 - 73
	VALG		S5427W	MULB	92 - 51	PHIN	◆SIC		S8440A	MULB	113 - 25	S9334W	PHIN	180 - 74
S54S181N	MULB	168 - 106	PHIN	VALG		S5492F	◆MULB	153 - 17	S8440A	MULB	113 - 25	S9401F	PHIN	182 - 72
	SIC		S5430F	MULB	105 - 87	PHIN	◆SIC		S8440A	MULB	113 - 25	S9602B	PHIN	124 - 104
S54S181W	MULB	168 - 107	PHIN	VALG		PHIN	◆SIC		S8440A	MULB	113 - 25	S9602F	PHIN	124 - 105
	◆SIC		S5430W	MULB	105 - 88	PHIN	◆SIC		S8440A	MULB	113 - 25	S8821J	PHIN	47 - 85
S54S182F	◆MULB	170 - 64	PHIN	VALG		S5493F	◆MULB	145 - 13	S8440A	MULB	113 - 25	S9602W	PHIN	124 - 106
	◆SIC		S5432F	◆MULB	88 - 23	PHIN	◆SIC		S8440A	MULB	113 - 25	S54100F	PHIN	178 - 81
	VALG		PHIN	◆SIC		S5493W	◆MULB	145 - 14	S8440A	MULB	113 - 25	S54100Q	PHIN	178 - 82
S54S182W	◆MULB	170 - 65	PHIN	VALG		PHIN	◆SIC		S8440A	MULB	113 - 25	S54100W	PHIN	178 - 83
	◆SIC		S5432W	◆MULB	88 - 24	PHIN	◆SIC		S8440A	MULB	113 - 25	S54107F	PHIN	46 - 27
	VALG		PHIN	◆SIC		S8162A	MULB	127 - 22	S8440A	MULB	113 - 25	S54107W	PHIN	46 - 28
S54S260F	◆MULB	92 - 42	PHIN	VALG		PHIN	◆SIC		S8440A	MULB	113 - 25			
	◆SIC		S5442F	◆MULB	120 - 16	PHIN	◆SIC		S8440A	MULB	113 - 25			
	VALG		PHIN	◆SIC		S8162F	MULB	127 - 23	S8440A	MULB	113 - 25			
S54S260W	◆MULB	92 - 43	PHIN	VALG		PHIN	◆SIC		S8440A	MULB	113 - 25			
	◆SIC		S5442W	◆MULB	120 - 17	PHIN	◆SIC		S8440A	MULB	113 - 25			
	VALG		PHIN	◆SIC		S821F	MULB	113 - 15	S8440A	MULB	113 - 25			
S54S280F	◆MULB	173 - 4	PHIN	VALG		PHIN	◆SIC		S8440A	MULB	113 - 25			
	◆SIC		S5443F	MULB	121 - 10	PHIN	◆SIC		S8440A	MULB	113 - 25			
	VALG		PHIN	◆SIC		S821W	MULB	120 - 21	S8440A	MULB	113 - 25			
S54S280W	◆MULB	173 - 5	PHIN	VALG		PHIN	◆SIC		S8440A	MULB	113 - 25			
	◆SIC		S5443W	MULB	121 - 11	PHIN	◆SIC		S8440A	MULB	113 - 25			
	VALG		PHIN	◆SIC		S822A	MULB	93 - 48	S8440A	MULB	113 - 25			
S54S373F	◆MULB	179 - 70	PHIN	VALG		PHIN	◆SIC		S8440A	MULB	113 - 25			
	◆SIC		S5444F	MULB	121 - 67	PHIN	◆SIC		S8440A	MULB	113 - 25			
S54S374F	◆MULB	54 - 25	PHIN	VALG		PHIN	◆SIC		S8440A	MULB	113 - 25			
	◆SIC		S5444W	MULB	121 - 68	PHIN	◆SIC		S8440A	MULB	113 - 25			
S54S534F	◆MULB	54 - 26	PHIN	VALG		PHIN	◆SIC		S8440A	MULB	113 - 25			
	◆SIC		S5445F	MULB	120 - 18	PHIN	◆SIC		S8440A	MULB	113 - 25			
S82S62A	MULB	173 - 15	S5445W	MULB	120 - 19	PHIN	◆SIC		S8440A	MULB	113 - 25			
S82S62F	AMD	173 - 16	PHIN	VALG		PHIN	◆SIC		S8440A	MULB	113 - 25			
S82S82F	MULB	168 - 50	S5450W	MULB	114 - 18	PHIN	◆SIC		S8440A	MULB	113 - 25			
S82S82N	MULB	168 - 51	PHIN	VALG		PHIN	◆SIC		S8440A	MULB	113 - 25			
	◆SIC		S5450W	MULB	114 - 18	PHIN	◆SIC		S8440A	MULB	113 - 25			
S82S83B	MULB	162 - 15	PHIN	VALG		PHIN	◆SIC		S8440A	MULB	113 - 25			
S82S83F	MULB	162 - 16	S5451F	MULB	86 - 45	PHIN	◆SIC		S8440A	MULB	113 - 25			
S89	◆SIEG	157 - 62	PHIN	VALG		PHIN	◆SIC		S8440A	MULB	113 - 25			
S360B110	SIEG	139 - 48	S5451W	MULB	86 - 46	PHIN	◆SIC		S8440A	MULB	113 - 25			
S360B110C	SIEG	139 - 49	PHIN	VALG		PHIN	◆SIC		S8440A	MULB	113 - 25			
S2600	◆AMI	185 - 2	S5453F	MULB	114 - 19	PHIN	◆SIC		S8440A	MULB	113 - 25			
S2601	◆AMI													

3. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
S54109F	PHIN	46 - 29	S54192R	MULB	151 - 37	SCL4077B	SSS	65 - 89	SFC400LSE	THEF	105 - 99	SFC453EM	THEF	86 - 56
	PHIN			PHIN		SCL4078B	SSS	59 - 73	SFC400LSEHM	THEF	105 - 100	SFC453ET	THEF	86 - 57
S54109W	PHIN	46 - 30	S54192W	MULB	150 - 81	SCL4081B	SSS	55 - 65	SFC400PM	THEF	105 - 101	SFC453HEM	THEF	86 - 58
	PHIN			PHIN		SCL4082B	SSS	55 - 66	SFC400SE	THEF	105 - 102	SFC453HPM	THEF	86 - 59
S54116F	PHIN	178 - 84	S54193E	MULB	147 - 10	SCL4085B	SSS	56 - 52	SFC400SKM	THEF	105 - 103	SFC453PM	THEF	106 - 52
	PHIN			PHIN		SCL4086B	SSS	56 - 53	SFC400SJM	THEF	105 - 104	SFC454E	THEF	86 - 60
S54116W	PHIN	178 - 85	S54193F	MULB	152 - 36	SCL4093BC	SSS	64 - 60	SFC401AE	THEF	105 - 105	SFC454EM	THEF	86 - 61
	PHIN			PHIN		SCL4093BD	SSS	64 - 61	SFC401E	THEF	105 - 106	SFC454ET	THEF	86 - 62
S54116W	PHIN	178 - 85	S54193R	MULB	147 - 11	SCL4093BE	SSS	64 - 62	SFC401EM	THEF	105 - 107	SFC454HEM	THEF	86 - 63
	PHIN			PHIN		SCL4093BF	SSS	64 - 63	SFC401ET	THEF	105 - 108	SFC454HEM	THEF	86 - 64
S54121F	PHIN	127 - 5	S54193W	MULB	152 - 37	SCL4093BH	SSS	64 - 64	SFC401HEM	THEF	105 - 109	SFC454HPM	THEF	86 - 65
	PHIN			PHIN		SCL4099B	SSS	176 - 8	SFC401HJM	THEF	105 - 110	SFC454LE	THEF	83 - 32
S54121F	PHIN	127 - 5	S54221F	MULB	127 - 13	SCL4160B	SSS	136 - 27	SFC401HKM	THEF	106 - 1	SFC454LEM	THEF	83 - 33
	PHIN			PHIN		SCL4161B	SSS	133 - 52	SFC401HPM	THEF	106 - 2	SFC454PM	THEF	86 - 66
S54121Q	PHIN	127 - 6	S54221W	MULB	127 - 14	SCL4162B	SSS	136 - 28	SFC401JM	THEF	106 - 3	SFC460E	THEF	114 - 23
S54121W	PHIN	127 - 7	S54221W	PHIN	127 - 14	SCL4163B	SSS	133 - 53	SFC401LSE	THEF	106 - 4	SFC460EM	THEF	114 - 24
	PHIN			PHIN		SCL4174B	SSS	36 - 13	SFC401LSEM	THEF	106 - 5	SFC460ET	THEF	114 - 25
S54122F	PHIN	127 - 8	S54279F	MULB	177 - 32	SCL4192B	SSS	130 - 50	SFC401PM	THEF	106 - 6	SFC460PM	THEF	114 - 26
	PHIN			PHIN		SCL4193B	SSS	133 - 82	SFC402E	THEF	106 - 7	SFC472E	THEF	49 - 68
S54122Q	PHIN	127 - 9	S54279W	MULB	177 - 33	SCL4402B	SSS	60 - 1	SFC402E	THEF	106 - 8	SFC472EM	THEF	49 - 69
S54122W	PHIN	127 - 10		PHIN		SCL4404B	SSS	132 - 95	SFC402E	THEF	92 - 52	SFC472ET	THEF	49 - 70
	PHIN			PHIN		SCL4412B	SSS	63 - 30	SFC402EM	THEF	92 - 53	SFC472HEM	THEF	37 - 30
S54123E	PHIN	126 - 47	SA556-1F	SIC	128 - 41	SCL4428B	SSS	116 - 38	SFC402ET	THEF	92 - 54	SFC472HPM	THEF	37 - 31
	PHIN		SA556-1N	SIC	128 - 42	SCL4445B	SSS	156 - 77	SFC402EV	THEF	92 - 55	SFC472LE	THEF	42 - 19
S54123F	PHIN	127 - 11	SA556N	RTCF	128 - 73	SCL4449UB	SSS	66 - 47	SFC402P	THEF	92 - 56	SFC472LEM	THEF	42 - 20
	PHIN			PHIN		SCL4508B	SSS	175 - 25	SFC402PM	THEF	92 - 57	SFC472PM	THEF	37 - 32
S54123W	PHIN	127 - 12	SA558F	SIC	123 - 44	SCL4510B	SSS	130 - 13	SFC403E	THEF	106 - 9	SFC473E	THEF	49 - 71
	PHIN			PHIN		SCL4511B	SSS	116 - 87	SFC403EM	THEF	106 - 10	SFC473EM	THEF	46 - 31
S54145E	PHIN	120 - 24	SA558N	SIC	123 - 45	SCL4515B	SSS	116 - 88	SFC403ET	THEF	106 - 11	SFC473ET	THEF	46 - 32
	PHIN			PHIN		SCL4516B	SSS	132 - 94	SFC403EV	THEF	106 - 12	SFC473LE	THEF	42 - 21
S54145F	PHIN	120 - 25	SA1034	SIC	157 - 12	SCL4518B	SSS	129 - 104	SFC403LE	THEF	94 - 28	SFC473LEM	THEF	42 - 22
	PHIN		SA1534	SIC	157 - 13	SCL4520B	SSS	132 - 78	SFC403LEM	THEF	94 - 29	SFC473PM	THEF	37 - 33
S54145R	PHIN	120 - 26	SA1553A	SIC	157 - 14	SCL4522B	SSS	129 - 105	SFC408E	THEF	80 - 37	SFC474E	THEF	52 - 63
	PHIN		SA1059(A)	PHIN	156 - 7	SCL4526B	SSS	132 - 79	SFC408EM	THEF	80 - 38	SFC474EM	THEF	52 - 64
S54145W	PHIN	120 - 27	SA1059(B)	PHIN	156 - 8	SCL4531B	SSS	156 - 40	SFC408ET	THEF	80 - 39	SFC474ET	THEF	52 - 65
	PHIN		SA1059(C)	PHIN	156 - 9	SCL4535B	SSS	122 - 9	SFC408EV	THEF	80 - 40	SFC474EV	THEF	52 - 66
S54160F	PHIN	141 - 61	SA1059(D)	PHIN	156 - 10	SCL4538B	SSS	172 - 27	SFC408P	THEF	80 - 41	SFC474HEM	THEF	52 - 67
	PHIN		SA1059(E)	PHIN	156 - 11	SCL4541B	SSS	116 - 89	SFC409E	THEF	80 - 42	SFC474HPM	THEF	52 - 68
S54160W	PHIN	141 - 62	SA1059(F)	PHIN	156 - 12	SCL4544B	SSS	116 - 90	SFC409EM	THEF	80 - 43	SFC474LEM	THEF	52 - 69
	PHIN		SA1059(G)	PHIN	156 - 13	SCL4547B	SSS	168 - 8	SFC409E	THEF	80 - 44	SFC474PM	THEF	50 - 77
S54161E	PHIN	139 - 14	SA1059(H)	PHIN	156 - 14	SCL4548B	SSS	170 - 18	SFC409ET	THEF	80 - 45	SFC474SEM	THEF	50 - 78
	PHIN		SA1059(I)	PHIN	156 - 15	SCL4549B	SSS	66 - 55	SFC409EV	THEF	80 - 46	SFC474T	THEF	52 - 70
S54161F	PHIN	147 - 4	SA1059(J)	PHIN	156 - 16	SCL4550B	SSS	66 - 56	SFC409P	THEF	80 - 47	SFC475E	THEF	177 - 72
	PHIN		SA1059(K)	PHIN	156 - 17	SCL4551B	SSS	66 - 57	SFC409PM	THEF	80 - 48	SFC475EM	THEF	177 - 73
S54161W	PHIN	147 - 5	SA1059(L)	PHIN	156 - 18	SCL4552B	SSS	66 - 58	SFC410E	THEF	106 - 13	SFC475ET	THEF	177 - 74
	PHIN		SA1059(M)	PHIN	156 - 19	SCL4553B	SSS	66 - 59	SFC410EM	THEF	106 - 14	SFC475J	THEF	177 - 75
S54162E	PHIN	147 - 6	SA1059(N)	PHIN	156 - 20	SCL4554B	SSS	165 - 54	SFC410E	THEF	106 - 15	SFC475KM	THEF	177 - 76
	PHIN		SA1059(O)	PHIN	156 - 21	SCL4555B	SSS	157 - 40	SFC410HEM	THEF	106 - 16	SFC476E	THEF	46 - 33
S54162F	PHIN	141 - 63	SA1059(P)	PHIN	156 - 22	SCL4556B	SSS	157 - 92	SFC410HEM	THEF	106 - 17	SFC476EM	THEF	46 - 34
	PHIN		SA1059(Q)	PHIN	156 - 23	SCL4557B	SSS	124 - 89	SFC410HEM	THEF	106 - 18	SFC476ET	THEF	46 - 35
S54162W	PHIN	141 - 64	SA1059(R)	PHIN	156 - 24	SCL4558B	SSS	124 - 90	SFC410HPM	THEF	106 - 19	SFC476ET	THEF	46 - 36
	PHIN		SA1059(S)	PHIN	156 - 25	SCL4559B	SSS	124 - 91	SFC410HPM	THEF	106 - 20	SFC476ET	THEF	46 - 37
S54163E	PHIN	151 - 34	SA1059(T)	PHIN	156 - 26	SCL4560B	SSS	124 - 92	SFC410HPM	THEF	106 - 21	SFC476ET	THEF	46 - 38
	PHIN		SA1059(U)	PHIN	156 - 27	SCL4561B	SSS	124 - 93	SFC410HPM	THEF	106 - 22	SFC476ET	THEF	46 - 39
S54163F	PHIN	147 - 8	SA1059(V)	PHIN	156 - 28	SCL4562B	SSS	124 - 94	SFC410HPM	THEF	106 - 23	SFC476ET	THEF	46 - 40
	PHIN		SA1059(W)	PHIN	156 - 29	SCL4563B	SSS	124 - 95	SFC410HPM	THEF	106 - 24	SFC476ET	THEF	46 - 41
S54163R	PHIN	151 - 35	SA1059(X)	PHIN	156 - 30	SCL4564B	SSS	124 - 96	SFC410HPM	THEF	106 - 25	SFC476ET	THEF	46 - 42
	PHIN		SA1059(Y)	PHIN	156 - 31	SCL4565B	SSS	124 - 97	SFC410HPM	THEF	106 - 26	SFC476ET	THEF	46 - 43
S54163W	PHIN	147 - 9	SA1059(Z)	PHIN	156 - 32	SCL4566B	SSS	124 - 98	SFC410HPM	THEF	106 - 27	SFC476ET	THEF	46 - 44
	PHIN		SA1059(AA)	PHIN	156 - 33	SCL4567B	SSS	124 - 99	SFC410HPM	THEF	106 - 28	SFC476ET	THEF	46 - 45
S54174F	PHIN	54 - 27	SBP9708CJ	TII	163 - 74	SCL4568B	SSS	124 - 100	SFC410HPM	THEF	106 - 29	SFC476ET	THEF	46 - 46
	PHIN		SBP9708CK	TII	163 - 75	SCL4569B	SSS	124 - 101	SFC410HPM	THEF	106 - 30	SFC476ET	THEF	46 - 47
S54174W	PHIN	54 - 28	SBP9708EJ	TII	163 - 76	SCL4570B	SSS	124 - 102	SFC410HPM	THEF	106 - 31	SFC476ET	THEF	46 - 48
	PHIN		SBP9708FJ	TII	163 - 77	SCL4571B	SSS	124 - 103	SFC410HPM	THEF	106 - 32	SFC476ET	THEF	46 - 49
S54175F	PHIN	54 - 29	SBP9708GJ	TII	163 - 78	SCL4572B	SSS	124 - 104	SFC410HPM	THEF	106 - 33	SFC476ET	THEF	46 - 50
	PHIN		SBP9708HJ	TII	163 - 79	SCL4573B	SSS	124 - 105	SFC410HPM	THEF	106 - 34	SFC476ET	THEF	46 - 51
S54175W	PHIN	54 - 30	SCL4000B	SSS	61 - 78	SCL4574B	SSS	124 - 106	SFC410HPM	THEF	106 - 35	SFC476ET	THEF	46 - 52
	PHIN		SCL4001B	SSS	59 - 69	SCL4575B	SSS	124 - 107	SFC410HPM	THEF	106 - 36	SFC476ET	THEF	46 - 53
S54180F	PHIN	173 - 50	SCL4002B	SSS	59 - 70	SCL4576B	SSS	124 - 108	SFC410HPM	THEF	106 - 37	SFC476ET	THEF	46 - 54
	PHIN		SCL4003B	SSS	59 - 71	SCL4577B	SSS	124 - 109	SFC410HPM	THEF	106 - 38	SFC476ET	THEF	46 - 55
S54180W	PHIN	173 - 51	SCL4004B	SSS	59 - 72	SCL4578B	SSS	124 - 110	SFC410HPM	THEF	106 - 39	SFC476ET	THEF	46 - 56
	PHIN		SCL4005B	SSS	59 - 73	SCL4579B	SSS	124 - 111	SFC410HPM	THEF	106 - 40	SFC476ET	THEF	46 - 57
S54181F	PHIN	169 - 41	SCL4006B	SSS	59 - 74	SCL4580B	SSS	124 - 112	SFC410HPM	THEF	106 - 41	SFC476ET	THEF	46 - 58
	PHIN		SCL4007B	SSS	59 - 75	SCL4581B	SSS	124 - 113	SFC410HPM	THEF	106 - 42	SFC476ET	THEF	46 - 59
S54181W	PHIN	169 - 42	SCL4008B	SSS	59 - 76	SCL4582B	SSS	124 - 114	SFC410HPM	THEF	106 - 43	SFC476ET	THEF	46 - 60
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SFC4180ET	THEF	172 - 79				SN54H10J	♦TII	106 - 82				SN54LS112AJ	♦MOTA	42 - 33
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SFC4180KM	THEF	172 - 81				SN54H11J	♦TII	80 - 70	SN54LS03J	♦MOTA	97 - 71	SN54LS112AW	♦TII	42 - 34
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SFC4181E	THEF	169 - 44	SN54ALS38J	TII	106 - 72	SN54H15J	♦TII	80 - 72	SN54LS03W	TII	97 - 72		TII	
SFC4181EM	THEF	169 - 45	SN54ALS74J	♦TII	53 - 1	SN54H15W	TII	80 - 73	SN54LS08J	♦MOTA	77 - 30	SN54LS113AW	♦TII	42 - 36
SFC4181ET	THEF	169 - 46	SN54ALS74J#mil	♦MOTA	54 - 66	SN54H20J	♦TII	106 - 84				SN54LS114AJ	♦MOTA	42 - 37
SFC4181JM	THEF	169 - 47				SN54H20W	♦TII	106 - 85	SN54LS08W	TII	77 - 31		TII	
SFC4181KM	THEF	169 - 48	SN54ALS74N	♦MOTA	54 - 31	SN54H21J	♦TII	80 - 74	SN54LS09J	♦MOTA	77 - 32	SN54LS114AW	♦TII	42 - 38
SFC4182E	THEF	170 - 87	SN54ALS74W	♦TII	53 - 2	SN54H21W	♦TII	80 - 75				SN54LS122J	♦MOTA	126 - 51
SFC4182EM	THEF	170 - 88	SN54ALS109J#mil	♦MOTA	49 - 31	SN54H22J	♦TII	106 - 86	SN54LS09W	TII	77 - 33		TII	
SFC4182ET	THEF	170 - 89				SN54H22W	♦TII	106 - 87	SN54LS10J	♦MOTA	97 - 73	SN54LS122W	♦TII	126 - 52
SFC4192E	THEF	142 - 42	SN54ALS112J#mil	TII	34 - 7	SN54H30J	♦TII	106 - 88				SN54LS123J	♦MOTA	126 - 53
SFC4192EM	THEF	142 - 43				SN54H30W	♦TII	106 - 89	SN54LS10W	TII	97 - 74		TII	
SFC4192ET	THEF	142 - 44	SN54ALS113J#mil	♦TII	34 - 8	SN54H40J	♦TII	106 - 90	SN54LS11J	♦MOTA	77 - 34	SN54LS123W	♦TII	126 - 54
SFC4193E	THEF	148 - 21				SN54H40W	♦TII	106 - 91				SN54LS124J	♦TII	155 - 50
SFC4193EM	THEF	148 - 22	SN54ALS114J#mil	♦TII	34 - 9	SN54H50J	♦TII	86 - 67	SN54LS11W	TII	77 - 35	SN54LS124W	♦TII	155 - 51
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SFC4283LSE	THEF	161 - 56	SN54ALS133J#mil	TII	106 - 73	SN54H51J	♦TII	86 - 69				SN54LS136J	♦MOTA	111 - 57
SFC4283LSEM	THEF	161 - 57				SN54H51W	♦TII	86 - 70	SN54LS12W	TII	97 - 76		TII	
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SFF5100E	THEF	184 - 31	SN54ALS161J	♦MOTA	144 - 48	SN54H53J	♦TII	86 - 71	SN54LS15W	TII	77 - 37		TII	
SFF5100K	THEF	184 - 32	SN54ALS161N	♦MOTA	144 - 49	SN54H53W	♦TII	86 - 72	SN54LS18J#mil	TII	108 - 99	SN54LS138W	AMD	121 - 88
SFF5201	THEF	182 - 45	SN54ALS162J	♦MOTA	144 - 50	SN54H54J	♦TII	86 - 73	SN54LS18W#mil	TII	108 - 100		TII	
SFF24000AEV	THEF	60 - 18	SN54ALS162N	♦MOTA	144 - 51	SN54H54W	♦TII	86 - 74	SN54LS19J#mil	TII	115 - 74	SN54LS139J	AMD	121 - 45
SFF24000AKM	THEF	60 - 19	SN54ALS163J	♦MOTA	144 - 52	SN54H55J	♦TII	86 - 75	SN54LS19W#mil	TII	115 - 75		TII	
SFF24001AEV	THEF	60 - 20	SN54ALS163N	♦MOTA	144 - 53	SN54H55W	♦TII	86 - 76	SN54LS20J	♦MOTA	97 - 77	SN54LS139W	AMD	121 - 46
SFF24001AKM	THEF	60 - 21	SN54ALS190J	♦MOTA	144 - 34	SN54H60J	♦TII	114 - 27					TII	
SFF24002AEV	THEF	60 - 22	SN54ALS190N	♦MOTA	144 - 35	SN54H60W	♦TII	114 - 28	SN54LS20W	TII	97 - 78	SN54LS160AJ	♦MOTA	142 - 45
SFF24002AKM	THEF	60 - 23	SN54ALS191J	♦MOTA	144 - 36	SN54H61J	♦TII	114 - 29	SN54LS21J	♦MOTA	77 - 38		TII	
SFF24008AEV	THEF	159 - 96	SN54ALS191N	♦MOTA	144 - 37	SN54H61W	♦TII	114 - 30				SN54LS160AW	TII	142 - 46
SFF24008AKM	THEF	159 - 97	SN54ALS192J	♦MOTA	144 - 38	SN54H62J	♦TII	114 - 31	SN54LS21W	TII	77 - 39	SN54LS160J	AMD	141 - 65
SFF24011AEV	THEF	63 - 46	SN54ALS192N	♦MOTA	144 - 39	SN54H62W	♦TII	114 - 32	SN54LS22J	♦MOTA	97 - 79	SN54LS160W	AMD	141 - 66
SFF24011AKM	THEF	63 - 47	SN54ALS193J	♦MOTA	147 - 12	SN54H71J	♦TII	46 - 39				SN54LS161AJ	♦MOTA	148 - 24
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SFF24024AKM	THEF	133 - 56	SN54ALS580J#mil	TII	180 - 18	SN54H87J	♦TII	182 - 82	SN54LS30J	♦MOTA	98 - 2	SN54LS163AW	TII	148 - 27
SFF24025AEV	THEF	60 - 24				SN54H87W	♦TII	182 - 83				SN54LS163J	AMD	147 - 16
SFF24025AKM	THEF	60 - 25	SN54ALS696J#mil	♦TII	152 - 8	SN54H101J	♦TII	46 - 49	SN54LS30W	TII	98 - 3	SN54LS163W	AMD	147 - 17
SFF24027AEV	THEF	35 - 41				SN54H101W	♦TII	46 - 50	SN54LS32J	♦MOTA	87 - 70	SN54LS168J	♦MOTA	141 - 69
SFF24027AKM	THEF	35 - 42	SN54ALS697J#mil	♦MOTA	149 - 87	SN54H102J	♦TII	46 - 51				SN54LS169J	♦MOTA	147 - 18
SFF24029AEV	THEF	135 - 36				SN54H102W	♦TII	46 - 52	SN54LS32W	TII	87 - 71	SN54LS173AJ	TII	50 - 17
SFF24029AKM	THEF	135 - 37	SN54ALS698J#mil	♦MOTA	152 - 9	SN54H103J	♦TII	46 - 53	SN54LS33J	♦MOTA	90 - 45	SN54LS173AW	TII	50 - 18
SFF24030AEV	THEF	65 - 31				SN54H103W	♦TII	46 - 54				SN54LS181J	AMD	169 - 58
SFF24030AKM	THEF	65 - 32	SN54ALS699J#mil	♦MOTA	149 - 88	SN54H106J	♦TII	46 - 55	SN54LS33W	TII	90 - 46		♦MOTA	TII
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SN7443AJ	♦TII	121 - 14	SN15949N	TII	68 - 80								PHIN	
SN7443AN	♦TII	121 - 15	SN15950	♦TII	38 - 85	SN54190J	♦TII	141 - 93	SN74182J	♦TII	170 - 92	SP337A	MULB	69 - 42
SN7444AJ	♦TII	121 - 71	SN15950N	♦TII	38 - 84	SN54190W	♦TII	141 - 94					PHIN	
SN7444AN	♦TII	121 - 72	SN15951	♦TII	122 - 106	SN54191J	♦TII	147 - 44	SN74182N	♦TII	170 - 93	SP352A	MULB	93 - 86
SN7445J	♦TII	120 - 43	SN15951N	♦TII	122 - 104	SN54191W	♦TII	147 - 45					PHIN	
SN7445N	♦TII	120 - 44	SN15961F,R	♦TII	68 - 81	SN54192J	♦TII	142 - 54	SN74190J	♦TII	141 - 99	SP356A	MULB	69 - 45
SN7447J	♦TII	120 - 84	SN15961J	TII	68 - 82				SN74190N	♦TII	141 - 100		PHIN	
SN7447N	♦TII	120 - 85	SN15961N	TII	68 - 83	SN54192W	♦TII	142 - 55	SN74191J	♦TII	147 - 50	SP357A	MULB	110 - 58
SN7450J	♦TII	87 - 8	SN15962	♦TII	68 - 88				SN74191N	♦TII	147 - 51		PHIN	
SN7450N	♦TII	87 - 9	SN15962N	♦T										

3. TYPE No. CROSS INDEX

				IN TYPE NUMBER SEQUENCE							
TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
SP670A	MULB	67-105	T54LS08D2	SGAI	77-40	TC4001UBP	TOSJ	61-44	uA555HM	*FSC	128-19
	PHIN		T54LS09D2	SGAI	77-41	TC4002BP	TOSJ	61-45	uA555TC	*FSC	128-20
SP680A	PHIN	67-106	T54LS10D2	SGAI	98-13	TC4008BP	TOSJ	159-79	uA556DC	*FSC	128-21
SP1648	*PLSB	154-71	T54LS11D2	SGAI	77-42	TC4011BP	TOSJ	64-83	uA556DM	*FSC	128-22
SP1658	*PLSB	154-70	T54LS15D2	SGAI	77-43	TC4011UBP	TOSJ	64-84	uA556PC	*FSC	128-23
SP1660	*PLSB	71-37	T54LS20D2	SGAI	77-44	TC4012BP	TOSJ	64-85	uA2240CJ	*TII	127-87
SP1670	*PLSB	39-7	T54LS21D2	SGAI	98-15	TC4013BP	TOSJ	36-10	uA2240CN	*TII	127-88
SP3290A	MULB	151-38	T54LS22D2	SGAI	98-16	TC4017BP	TOSJ	136-93	uA2240DC	*FSC	127-89
	PHIN		T54LS27D2	SGAI	98-16	TC4018BP	TOSJ	136-90	uA2240DM	*FSC	127-90
SP3281A	PHIN	151-39	T54LS27D2	SGAI	98-49	TC4020BP	TOSJ	131-77	uA2240MJ	*TII	127-91
	PHIN		T54LS30D2	SGAI	98-17	TC4022BP	TOSJ	136-94	uA2240PC	*FSC	127-92
SP8600A	*PLSB	157-71	T54LS32D2	SGAI	87-72	TC4023BP	TOSJ	64-86	uPC617C	NECJ	128-4
SP8600B	*PLSB	157-72	T54LS35D2	SGAI	83-46	TC4024BP	TOSJ	131-78	uPC1555C	NECJ	128-5
SP8601A	*PLSB	157-69	T54LS42D2	SGAI	83-47	TC4025BP	TOSJ	61-46	WD55A	*WDC	123-42
SP8601B	*PLSB	157-70	T54LS55D2	SGAI	83-48	TC4027BP	TOSJ	34-84	WD55B	*WDC	123-43
SP8602A	*PLSB	157-66	T54LS74D2	SGAI	51-8	TC4028BP	TOSJ	117-39	WD2143L01	*WDC	154-9
SP8602B	*PLSB	157-66	T54LS83D2	SGAI	161-74	TC4029BP	TOSJ	130-82	WD2143M01	*WDC	154-10
SP8604A	*PLSB	157-63	T54LS86D2	SGAI	111-61	TC4030BP	TOSJ	65-78	WTL1010#ai	WET	163-78
SP8604B	*PLSB	157-64	T54LS109D2	SGAI	42-39	TC4032BP	TOSJ	159-11	WTL1016#ai	WET	163-15
SP8605A	*PLSB	157-8	T54LS112D2	SGAI	42-40	TC4038BP	TOSJ	159-12	XR320P#1	*EXR	127-28
SP8605B	*PLSB	157-9	T54LS113D2	SGAI	42-41	TC4040BP	TOSJ	131-79	XR320P#2	*EXR	154-91
SP8606A	*PLSB	157-10	T54LS114D2	SGAI	42-42	TC4042BP	TOSJ	175-48	XR555CM	*EXR	128-6
SP8606B	*PLSB	157-11	T54LS136D2	SGAI	111-62	TC4043BP	TOSJ	175-26	XR555CN	*EXR	128-34
SP8607A	*PLSB	157-67	T54LS283D2	SGAI	161-75	TC4044BP	TOSJ	175-27	XR555CP	*EXR	128-35
SP8607B	*PLSB	157-68	T54LS300B1	SGAI	108-47	TC4047BP	TOSJ	154-36	XR555M	*EXR	128-52
SP8610A	*PLSB	157-14	T54LS00D1	SGAI	108-48	TC4063BP	TOSJ	165-58	XR556CN	*EXR	128-36
SP8610B	*PLSB	157-15	T54LS02B1	SGAI	93-19	TC4068BP	TOSJ	64-87	XR556CP	*EXR	128-37
SP8611A	*PLSB	157-16	T54LS02D1	SGAI	93-20	TC4071BP	TOSJ	58-68	XR556M	*EXR	128-53
SP8611B	*PLSB	157-21	T54LS03B1	SGAI	108-49	TC4072BP	TOSJ	58-69	XR558CN	*EXR	183-45
SP8612BDC	*PLSB	157-26	T54LS03D1	SGAI	108-50	TC4073BP	TOSJ	56-40	XR558CP	*EXR	183-46
SP8612BDG	*PLSB	157-27	T54LS08B1	SGAI	81-16	TC4075BP	TOSJ	58-70	XR558M	*EXR	183-47
SP8617BDC	*PLSB	157-17	T54LS08D1	SGAI	81-17	TC4077BP	TOSJ	75-7	XR559CN	*EXR	183-48
SP8617BDG	*PLSB	157-18	T54LS09B1	SGAI	81-18	TC4078BP	TOSJ	61-47	XR559CP	*EXR	183-49
SP8617MDC	*PLSB	157-19	T54LS09D1	SGAI	81-19	TC4081BP	TOSJ	56-41	XR559M	*EXR	183-50
SP8617MDG	*PLSB	157-20	T54LS10B1	SGAI	108-51	TC4082BP	TOSJ	56-42	XR2200	*EXR	183-86
SP8619BDC	*PLSB	157-22	T54LS10D1	SGAI	108-52	TC4085BP	TOSJ	57-51	XR2240CN#1	*EXR	127-93
SP8619BDG	*PLSB	157-23	T54LS11B1	SGAI	81-20	TC4086BP	TOSJ	57-52	XR2240CN#2	*EXR	154-97
SP8619MDC	*PLSB	157-24	T54LS11D1	SGAI	81-21	TC4099BP	TOSJ	176-26	XR2240CP#1	*EXR	127-94
SP8619MDG	*PLSB	157-25	T54LS15B1	SGAI	81-22	TC4501BP	TOSJ	75-6	XR2240CP#2	*EXR	154-98
SP8620A	*PLSB	157-28	T54LS15D1	SGAI	81-23	TC4508BP	TOSJ	175-32	XR2240M#1	*EXR	127-95
SP8620B	*PLSB	157-29	T54LS20B1	SGAI	108-53	TC4510BP	TOSJ	130-96	XR2240M#2	*EXR	154-99
SP8629	*PLSB	158-20	T54LS20D1	SGAI	108-54	TC4516BP	TOSJ	135-38	XR2240N#1	*EXR	127-96
SP8630A	*PLSB	157-35	T54LS21B1	SGAI	81-24	TC4518BP	TOSJ	129-82	XR2240N#2	*EXR	154-100
SP8630B	*PLSB	157-36	T54LS21D1	SGAI	81-25	TC4520BP	TOSJ	132-30	XR2240P#1	*EXR	127-97
SP8634B	*PLSB	157-83	T54LS22B1	SGAI	108-55	TC4521BP	TOSJ	156-79	XR2240P#2	*EXR	154-101
SP8635B	*PLSB	157-82	T54LS22D1	SGAI	108-56	TC4522BP	TOSJ	130-1	XR2242CN#1	*EXR	127-82
SP8637B	*PLSB	157-80	T54LS26B1	SGAI	108-57	TC4526BP	TOSJ	132-81	XR2242CN#2	*EXR	154-2
SP8643A	*PLSB	156-104	T54LS26D1	SGAI	108-58	TC4527BP	TOSJ	156-30	XR2242CP#1	*EXR	127-83
SP8647ADG	*PLSB	156-100	T54LS27D1	SGAI	93-21	TC4528BP	TOSJ	122-34	XR2242CP#2	*EXR	154-3
SP8647ADP	*PLSB	156-101	T54LS30B1	SGAI	108-59	TC4530BP	TOSJ	183-21	XR2242M#1	*EXR	127-84
SP8647BDG	*PLSB	156-102	T54LS30D1	SGAI	108-60	TC4531BP	TOSJ	172-30	XR2242M#2	*EXR	154-4
SP8647BDP	*PLSB	156-103	T54LS32B1	SGAI	88-42	TC4538BP	TOSJ	122-33	XR2243CN#ai	*EXR	127-85
SP8650A	*PLSB	157-37	T54LS32D1	SGAI	88-43	TC4560BP	TOSJ	159-98	XR2243CP#ai	*EXR	127-86
SP8650B	*PLSB	157-38	T54LS51B1	SGAI	87-19	TC4572BP	TOSJ	183-22	XR2271CN	*EXR	184-33
SP8655A	*PLSB	157-89	T54LS51D1	SGAI	87-20	TC4585BP	TOSJ	165-60	XR2271CP	*EXR	184-34
SP8655B	*PLSB	157-90	T54LS54B1	SGAI	87-21	TC5001P	TOSJ	129-40	XR2272CN	*EXR	184-7
SP8657A	*PLSB	157-87	T54LS54D1	SGAI	87-22	TC5018P	TOSJ	131-43	XR2272CP	*EXR	184-8
SP8657B	*PLSB	157-88	T54LS55B1	SGAI	87-23	TC5026P	TOSJ	129-47	XR2556CN#1	*EXR	127-39
SP8658	*PLSB	158-17	T54LS55D1	SGAI	87-24	TC5027P	TOSJ	131-39	XR2556CN#2	*EXR	154-92
SP8659A	*PLSB	157-85	T54LS74B1	SGAI	53-26	TC5032P	TOSJ	130-39	XR2556CP#1	*EXR	127-40
SP8659B	*PLSB	157-86	T54LS74D1	SGAI	53-27	TC5036P	TOSJ	156-75	XR2556CP#2	*EXR	154-93
SP8660	*PLSB	158-16	T54LS83B1	SGAI	161-76	TC5037P	TOSJ	129-41	XR2556M#1	*EXR	127-42
SP8660A	*PLSB	157-78	T54LS83D1	SGAI	161-77	TC5043P	*TOSJ	123-16	XR2556M#2	*EXR	154-94
SP8660B	*PLSB	157-79	T54LS86B1	SGAI	112-86	TC5048P	TOSJ	156-76	XR6118P	*EXR	184-9
SP8665B	*PLSB	157-84	T54LS86D1	SGAI	112-87	TC5051P	TOSJ	129-42	XR6128P	*EXR	184-10
SP8668B	*PLSB	157-36	T54LS109B1	SGAI	47-24	TC5052P	TOSJ	129-43	XRL555CN	*EXR	128-9
SP8670A	*PLSB	157-30	T54LS109D1	SGAI	47-25	TC5053P	TOSJ	129-44	XRL555CP	*EXR	128-10
SP8670B	*PLSB	157-31	T54LS112B1	SGAI	47-26	TC5054P	TOSJ	129-45	XRL555M	*EXR	128-13
SP8675B	*PLSB	157-33	T54LS112D1	SGAI	47-27	TC5070P	*TOSJ	129-55	XRL556CN	*EXR	183-51
SP8678B	*PLSB	157-34	T54LS113B1	SGAI	47-28	TC5071P	*TOSJ	129-56	XRL556CP	*EXR	183-52
SP8680A	*PLSB	156-105	T54LS113D1	SGAI	47-29	TC5072P	*TOSJ	129-57	XRL556M	*EXR	183-53
SP8680B	*PLSB	156-106	T54LS114B1	SGAI	47-30	TC7400BP	TOSJ	64-88	Z80ACTCCE#1	ZIL	139-62
SP8685A	*PLSB	157-55	T54LS114D1	SGAI	47-31	TC7476BP	TOSJ	34-85	Z80ACTCCE#2	ZIL	123-23
SP8685B	*PLSB	157-56	T54LS136B1	SGAI	112-88	TC9122P	*TOSJ	130-72	Z80ACTCCM#1	ZIL	139-63
SP8690A	*PLSB	156-98	T54LS136D1	SGAI	113-1	TC40102BP	TOSJ	139-53	Z80ACTCCM#2	ZIL	123-24
SP8690B	*PLSB	156-99	T54LS283B1	SGAI	161-78	TC40103BP	TOSJ	139-54	Z80ACTCCS#1	ZIL	139-64
SP8691A	*PLSB	156-94	T54LS283D1	SGAI	161-79	TC40160BP	TOSJ	129-73	Z80ACTCCS#2	ZIL	123-25
SP8691B	*PLSB	156-95	TA6179W	TII	133-67	TC40161BP	TOSJ	132-8	Z80ACTCPS#2	ZIL	123-26
SP8695A	*PLSB	157-53	TC40H000P	*TOSJ	62-62	TC40162BP	TOSJ	129-74	Z80CTCCE#1	ZIL	139-58
SP8695B	*PLSB	157-54	TC40H002P	*TOSJ	59-39	TC40163BP	TOSJ	132-9	Z80CTCCE#2	ZIL	123-27
SP8720A	*PLSB	156-88	TC40H004P	*TOSJ	66-38	TC40174BP	TOSJ	36-11	Z80CTCCM#1	ZIL	139-59
SP8720B	*PLSB	156-89	TC40H008P	*TOSJ	55-52	TC40175BP	TOSJ	36-12	Z80CTCCM#2	ZIL	123-28
SP8735B	*PLSB	157-32	TC40H010P	*TOSJ	62-63	TC40192BP	TOSJ	129-67	Z80CTCCS#1	ZIL	139-60
SP8740A	*PLSB	156-90	TC40H011P	*TOSJ	55-53	TC40193BP	TOSJ	133-12	Z80CTCCS#2	ZIL	123-29
SP8740B	*PLSB	156-91	TC40H020P	*TOSJ	62-64	TDA0555D	*PHIN	127-36	Z80CTCPS#1	ZIL	139-61
SP8741A	*PLSB	156-92	TC40H021P	*TOSJ	55-54		*VALG		Z80CTCPS#2	ZIL	123-30
SP8741B	*PLSB	156-93	TC40H027P	*TOSJ	59-40	TDB0555	*SIEG	128-14	ZN219	*FERB	66-91
SP8743A	*PLSB	156-96	TC40H032P	*TOSJ	57-80	TDB0555B	*SIEG	128-15	ZN219E	*FERB	66-92
SP8743B	*PLSB	156-97	TC40H042P	*TOSJ	117-38	TDB0555CM	THEF	127-48	ZN220	*FERB	66-93
SP8755A	*PLSB	158-18	TC40H051P	*TOSJ	57-7	TDB0555DP8	THEF	127			

3. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
ZN7412J	◆FERB	108 - 72	ZSS56B	◆FERB	67 - 71									
ZN7420E	◆FERB	110 - 52	ZSS57B	◆FERB	67 - 72									
ZN7420F	◆FERB	110 - 53	ZSS59A	FERB	67 - 32									
ZN7425E	FERB	93 - 28	ZSS59B	FERB	67 - 33									
ZN7425J	FERB	93 - 29	ZSS81A	◆FERB	67 - 73									
ZN7427E	FERB	93 - 30	ZSS81B	◆FERB	67 - 74									
ZN7427J	FERB	93 - 31	ZSS83A	◆FERB	67 - 75									
ZN7428E	FERB	93 - 32	ZSS83B	◆FERB	67 - 76									
ZN7428J	FERB	93 - 33	ZSS85A	◆FERB	67 - 77									
ZN7430E	◆FERB	110 - 54	ZSS85B	◆FERB	67 - 78									
ZN7430F	◆FERB	110 - 55	ZSS86B	◆FERB	67 - 79									
ZN7432E	FERB	88 - 46	ZSS87B	◆FERB	67 - 80									
ZN7432J	FERB	88 - 47	ZSS89A	FERB	67 - 34									
ZN7437E	FERB	108 - 73	ZSS89B	FERB	67 - 35									
ZN7437J	FERB	108 - 74	ZST51A	◆FERB	67 - 81									
ZN7438E	FERB	108 - 75	ZST52A	◆FERB	67 - 82									
ZN7438J	FERB	108 - 76	ZST52B	◆FERB	67 - 83									
ZN7440E	◆FERB	110 - 56	ZST53A	◆FERB	67 - 84									
ZN7440F	◆FERB	110 - 57	ZST53B	◆FERB	67 - 85									
ZN7442E	FERB	120 - 56	ZST54A	◆FERB	67 - 86									
ZN7442J	FERB	120 - 57	ZST81A	◆FERB	67 - 87									
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ZN7451E	◆FERB	113 - 34	ZST83A	◆FERB	67 - 90									
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ZN7454F	◆FERB	82 - 62												
ZN7460E	◆FERB	114 - 81												
ZN7460F	◆FERB	114 - 82												
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ZN7470F	◆FERB	49 - 20												
ZN7472E	◆FERB	49 - 21												
ZN7472F	◆FERB	49 - 22												
ZN7473E	◆FERB	49 - 23												
ZN7473F	◆FERB	49 - 24												
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ZN7475E	◆FERB	54 - 63												
ZN7476E	◆FERB	49 - 25												
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ZN54155J	FERB	119 - 3												
ZN54161E	FERB	147 - 52												
ZN54161J	FERB	147 - 53												
ZN54163E	FERB	147 - 54												
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ZN54191E	FERB	147 - 56												
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ZN54192J	FERB	142 - 59												
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ZN54197J	FERB	142 - 107												
ZN74107E	◆FERB	49 - 28												
ZN74107F	◆FERB	49 - 29												
ZN74121E	FERB	127 - 64												
ZN74121J	FERB	127 - 65												
ZN74122E	FERB	124 - 83												
ZN74122J	FERB	124 - 84												
ZN74123E	FERB	124 - 85												
ZN74123J	FERB	124 - 86												
ZN74154E	FERB	119 - 4												
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ZN74155E	FERB	119 - 6												
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ZN74161E	FERB	147 - 58												
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ZN74163E	FERB	147 - 60												
ZN74163J	FERB	147 - 61												
ZN74191E	FERB	147 - 62												
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ZN74192J	FERB	142 - 61												
ZN74193E	FERB	148 - 41												
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ZSD81A	◆FERB	67 - 31												
ZSF51B	◆FERB	37 - 50												
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ZSS51B	◆FERB	67 - 66												
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ZSS53B	◆FERB	67 - 68												
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ZSS55B	◆FERB	67 - 70												

4. BINARY/FLIP-FLOPS

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC (4) LOGIC (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	T Y P E	LOGIC LEVEL		MAX. OPER. FREQ. (Hz)	FAN IN		POWER SUPPLY SPAN (V)	PROP. DELAY (S)	MAXIMUM RISE/FALL TIME (S)		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE	CKTS PER MOD	DRAWINGS				
					3 MIN. (V)	4 MAX. (V)		IN	OUT MAX			NEG	POS.					LOGIC OR BLOCK	OUTLINE			
1	DM54175W#mil																					
2	CM4027A				2	10	0.0 C	8.0MT	5	0.0	10	110n	5.0uΔ	5.0u	200m	4.5 †	5	C	2	40-27B	DL16az	
3	CM4027AE				2	10	0.0 C	8.0MT	5	0.0	10	150n	5.0uΔ	5.0u	200m	4.5 †	4	B	2	40-27B	DL16az	
4	IDM2990BJC				2	2.0	.80	20MS*		0.0	5.0				290mt		0	7	4	B02-324	DL16cp	
5	IDM2990BJM				2	2.0	.80	20MS*		0.0	5.0				290mt		5	C	4	B02-324	DL16cp	
6	IDM2990BJC				2	2.0	.80	20MS*		0.0	5.0				290mt		0	7	4	B02-324	DL16bu	
7	SN54ALS112J#mil				2	2.0	0.8	25M		0	7.0	20n					5	C	2	B02-257	DL16dw	
8	SN54ALS113J#mil				2	2.0	0.8	25M		0	7.0	20n					5	C	2	B02-303	DL14c	
9	SN54ALS114J#mil				2	2.0	0.8	25M		0	7.0	20n					5	C	2	B02-304	DL14c	
10	SN74ALS112J				2	2.0	0.8	25M		0	7.0	20n					0	7	2	74LS12N	DL16dw	
11	SN74ALS112N				2	2.0	0.8	25M		0	7.0	20n					0	7	2	74LS12N	DL16dx	
12	SN74ALS113J				2	2.0	0.8	30M		0	7.0	20n					0	7	2	74LS13N	DL14c	
13	SN74ALS113N				2	2.0	0.8	30M		0	7.0	20n					0	7	2	74LS13N	DL14n	
14	SN74ALS114J				2	2.0	0.8	30M		0	7.0	18n					0	7	2	74LS14N	DL14c	
15	SN74ALS114N				2	2.0	0.8	30M		0	7.0	18n					0	7	2	74LS14N	DL14n	
16	967DC				2	2.5	.50 C	35M	8	12	2.0	4.5			1.0	500m		1	B02-149	TO116		
17	FCJ131				2	6.0	0.0	7.0M	4	8	8	6.0			100m	1.2	0	7	2	B02-188	DL14p	
18	FCJ131				2	6.0	0.0	7.0M	4	8	8	6.0			100m	1.2	0	7	2	B02-188a	DL14p	
19	FCJ211				2	6.0	0.0	7.0M	5	8	8	6.0			100m	1.2	0	7	2	B02-188b	DL14p	
20	957DC				2	2.2	.36 C	35M	6	5	5	2.0	4.5	14n	1.0	500m		1	5	B03-131	TO116	
21	CM4013AD				8	10	0.0 C	10MT\$	4	0	0	110n	5.0uΔ	5.0u	200m	4.5 †	5	C	2	40-131	DL14i	
22	CM4013AE				8	10	0.0 C	10MT\$	4	0	0	125n	5.0uΔ	5.0u	200m	4.5 †	4	B	2	40-13B	DL14j	
23	SN54ALS574J#mil				8	2.0	0.8	30M		0	7.0	15n					5	C	8	B08-143	DL20t	
24	SN54ALS576J#mil				8	2.0	0.8	35M		0	7.0	15n					5	C	8	B08-144	DL20t	
25	SN54ALS874JT#mil				8	2.0	0.8	30M		0	7.0	15n					5	C	2	B08-155	DL24bf	
26	SN54ALS876JT#mil				8	2.0	0.8	30M		0	7.0	15n					5	C	2	B08-156	DL24bf	
27	SN74ALS574J				8	2.0	0.8	35M		0	7.0	12n					0	7	8	74LS574N	DL20s	
28	SN74ALS574N				8	2.0	0.8	35M		0	7.0	12n					0	7	8	74LS574N	DL20s	
29	SN74ALS576J				8	2.0	0.8	35M		0	7.0	12n					0	7	8	74AS576	DL20s	
30	SN74ALS576N				8	2.0	0.8	35M		0	7.0	12n					0	7	8	74AS576	DL20s	
31	SN74ALS874JT				8	2.0	0.8	35M		0	7.0	12n					0	7	8	B08-155	DL24bf	
32	SN74ALS874NT				8	2.0	0.8	35M		0	7.0	12n					0	7	8	B08-155	DL24bg	
33	SN74ALS876JT				8	2.0	0.8	35M		0	7.0	12n					0	7	2	B08-156	DL24bf	
34	SN74ALS876NT				8	2.0	0.8	35M		0	7.0	12n					0	7	2	B08-156	DL24bg	
35	CD40174BC				8	7.0	3.0	10M		2	0	15	50n	20n†	20n	500m	4.5 †	4	8	6	54-174	DLJ
36	CD40174BM				8	7.0	3.0	10M		2	0	15	50n	20n†	20n	500m	4.5 †	5	C	6	54-174	DLJ
37	CD40175BC				8	7.0	3.0	10M		2	0	15	50n	20n†	20n	500m	4.5 †	4	8	4	74-175N	DLJ
38	CD40175BM				8	7.0	3.0	10M		2	0	15	50n	20n†	20n	500m	4.5 †	5	C	4	74-175N	DLJ
39	CD4027AD		CMS		2	10	0.0 C	8.0MS†	4	50	0.0	10	110n	5.0uΔ	5.0u	20u%	4.5 †	5	C	2	40-27B	MO001AE
40	CD4027AE		CMS		2	10	0.0 C	8.0MS†	4	50	0.0	10	150n	5.0uΔ	5.0u	20u%	4.5 †	4	B	2	40-27B	MO001AC
41	CD4027AF		CMS		2	10	0.0 C	8.0MS*	4	50	0.0	10	110n	5.0uΔ	5.0u	20u%	4.5 †	5	C	2	40-27B	MO001AC
42	HBC4027AD		CMS		2	10	0.0 C	8.0MS*	4	50	0.0	10	110n	5.0uΔ	5.0u	20u%	4.5 †	5	C	2	40-27B	MO001AE
43	HBC4027AE		CMS		2	10	0.0 C	8.0MS*	4	50	0.0	10	110n	5.0uΔ	5.0u	20u%	4.5 †	5	C	2	40-27B	MO001AE
44	HBC4027AF		CMS		2	10	0.0 C	8.0MS*	4	50	0.0	10	110n	5.0uΔ	5.0u	20u%	4.5 †	5	C	2	40-27B	MO004AG
45	HBF4027AE		CMS		2	10	0.0 C	8.0MS*	4	50	0.0	10	150n	5.0uΔ	5.0u	200u%	4.5 †	4	B	2	40-27B	MO001AC
46	HBF4027AF		CMS		2	10	0.0 C	8.0MS†	4	50	0.0	10	150n	5.0uΔ	5.0u	200u%	4.5 †	4	B	2	40-27B	MO001AE
47	HCC4095BD		CMS		2	10	0.0	12MS	9	0	0	10	150n	20n†	20n	200m		5	C	1	40-95B	MO001AD
48	HCC4095BF		CMS		2	10	0.0	12MS	9	0	0	10	150n	20n†	20n	200m		5	C	1	40-95B	MO001AB
49	HCC4095BK		CMS		2	10	0.0	12MS	9	0	0	10	150n	20n†	20n	200m		5	C	1	40-95B	MO004AF
50	HCC4095BD		CMS		2	10	0.0	12MS	9	0	0	10	150n	20n†	20n	200m		5	C	1	40-95B	MO001AD
51	HCC4095BF		CMS		2	10	0.0	12MS	9	0	0	10	150n	20n†	20n	200m		5	C	1	40-95B	MO001AB
52	HCC4095BK		CMS		2	10	0.0	12MS	9	0	0	10	150n	20n†	20n	200m		5	C	1	40-95B	MO004AF
53	HCF4095BE		CMS		2	10	0.0	12MS	9	0	0	10	150n	20n†	20n	200m		4	B	1	40-95B	MO001AB
54	HCF4095BF		CMS		2	10	0.0	12MS	9	0	0	10	150n	20n†	20n	200m		4	B	1	40-95B	MO001AB
55	HCF4095BE		CMS		2	10	0.0	12MS	9	0	0	10	150n	20n†	20n	200m		4	B	1	40-95B	MO001AB
56	HCF4095BF		CMS		2	10	0.0	12MS	9	0	0	10	150n	20n†	20n	200m		4	B	1	40-95B	MO001AB
57	MB84027B		CMS		2	10.5*	4.5	10MS*	5	16e	0.0	15	130n	80n	80n	240u%	4.5 *	4	B	2	B02-325	DL16as
58	MB84027BM		CMS		2	10.5*	4.5	10MS*	5	16e	0.0	15	130n	80n	80n	240u%	4.5 *	4	B	2	B02-325	DL16cu
59	4027BDC		CMS		2	11	4.0	9.0M*	5	25e	0.0	15	140n			1.8m%	6.7 †	4	B	2	40-27B	DL16cj
60	4027BDM		CMS		2	11	4.0	9.0M*	5	25e	0.0	15	140n			1.8m%	6.7 †	5	C	2	40-27B	DL16cj
61	4027BFC		CMS		2	11	4.0	9.0M*	5	25e	0.0	15	140n			1.8m%	6.7 †	4	B	2	40-27B	FP103
62	4027BFM		CMS		2	11	4.0	9.0M*	5	25e	0.0	15	140n			1.8m%	6.7 †	5	C	2	40-27B	FP103
63	4027BPC		CMS		2	11	4.0	9.0M*	5	25e	0.0	15	140n			1.8m%	6.7 †	4	B	2	40-27B	
64	CD4027BCJ		CMS		2	11	4.0	7.6MS*	5	16e	0.0	15	130n	5.0uΔ	5.0u	240u%	6.7 †	4	B	2	40-27B	DL16au
65	CD4027BCN		CMS		2	11	4.0	7.6MS*	5	16e												

4. BINARY/FLIP-FLOPS

IN ORDER OF:(1)TECHNOLOGY(2)TYPE(3)LOGIC(4)LOGIC(5)TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYP E	LOGIC LEVEL		MAX. OPER. FREQ.	FAN IN		POWER SUPPLY SPAN	PROP. DELAY	RISE TIME	FALL TIME	MAX. OPER. POWER DISS.	MAX. NOISE REJECT	OPER. TEMP. RANGE	CKTS PER MOD	DRAWINGS			
					3 MIN. (V)	4 MAX. (V)		IN	OUT MAX									NEG	POS	LOGIC OR BLOCK	OUTLINE
1	MC74HC107N(A)		CMS	2	3.2	2.4	30M			0.0	6.00	21n		500m		4	8	2	74-107	DL14dg	
2	MC74HC112J(A)		CMS	2	3.2	2.4	30M			0.0	6.00	21n		500m		4	8	2	74LS112	DL16ao	
3	MC74HC112N(A)		CMS	2	3.2	2.4	30M			0.0	6.00	21n		500m		4	8	2	74LS112	DL16dp	
4#	HD14027B		CMS	2	3.5	1.5	3.0M	4	4e	0.0	18	280n	360n	260n	500m	4	8	2	B02-269	DL16p	
5	MM54C73D		CMS	2	3.5 *	1.5	4.0MT†	4		0.0	5.0	250n		500m	450m†	5	C	2	74-73N	DL14bi	
6	MM54C76D		CMS	2	3.5 *	1.5	4.0MT†	5		0.0	5.0	250n		500m	450m†	5	C	2	74LS76N	DL14bi	
7	MM54C107D		CMS	2	3.5 *	1.5	4.0MT†	4		0.0	5.0	250n		500m	450m†	5	C	2	74-107N	DL14bi	
8	MM74C73N		CMS	2	3.5 *	1.5	4.0MT†	4		0.0	5.0	250n		500m	450m†	0	7	2	74-73	DL14bt	
9	MM74C76N		CMS	2	3.5 *	1.5	4.0MT†	5		0.0	5.0	250n		500m	450m†	0	7	2	74LS76	DL14bt	
10	MM74C107N		CMS	2	3.5 *	1.5	4.0MT†	4		0.0	5.0	250n		500m	450m†	0	7	2	74-107N	DL14bt	
11#	LC4027B		CMS	2	3.5*	1.5Δ	2.0M†	5	15	0.5	20	500n		300m	450m†	4	8	2	B02-295	DL16du	
12#	MSM531		CMS	2	3.6 *	.80	2.0M†	5	15	0.0	5.0	500n		50u	450m†	2	7	2	B02-301	DL16bf	
13	JANM38510/05102BEA		CMS	2	3.95*	.85	700k\$*	5	10f	0.0	5.0	940n		200m		5	C	2	40-27B	DL16br	
14	JANM38510/05102BEB		CMS	2	3.95*	.85	700k\$*	5	10f	0.0	5.0	940n		200m		5	C	2	40-27B	DL16br	
15	JANM38510/05102BEC		CMS	2	3.95*	.85	700k\$*	5	10f	0.0	5.0	940n		200m		5	C	2	40-27B	DL16br	
16	JANM38510/05102BFA		CMS	2	3.95*	.85	700k\$*	5	10f	0.0	5.0	940n		200m		5	C	2	40-27B	FP117	
17	JANM38510/05102BFB		CMS	2	3.95*	.85	700k\$*	5	7	0.0	5.0	940n		200m		5	C	2	B02-247	FP117	
18	JANM38510/05102BFC		CMS	2	3.95*	.85	700k\$*	5	7	0.0	5.0	940n		200m		5	C	2	40-27B	FP117	
19	JANM38510/05102CEB		CMS	2	3.95*	.85	700k\$*	5	10f	0.0	5.0	940n		200m		5	C	2	40-27B	DL16br	
20	JANM38510/05102CFA		CMS	2	3.95*	.85	700k\$*	5	10f	0.0	5.0	940n		200m		5	C	2	40-27B	FP117	
21	JANM38510/05102CFB		CMS	2	3.95*	.85	700k\$*	5	7	0.0	5.0	940n		200m		5	C	2	40-27B	FP117	
22	JANM38510/05102CFC		CMS	2	3.95*	.85	700k\$*	5	7	0.0	5.0	940n		200m		5	C	2	40-27B	FP117	
23#	TC40H076AP		CMS	2	4.0*	1.0	10M*	5	50	0.0	5.0	55n	40n	40n	300m	1.0	4	8	2	40H076	DL16cr
24#	TC40H076P		CMS	2	4.0*	1.0	10M*	5	50	0.0	5.0	55n	40n	40n	300m	1.0	4	8	2	40H076	DL16cr
25#	TC40H107AP		CMS	2	4.0*	1.0	10M*	4	50	0.0	5.0	52n	40n	40n	300m	1.0	4	8	2	40-107B	DL14ch
26#	TC40H107P		CMS	2	4.0*	1.0	10M*	4	50	0.0	5.0	52n	40n	40n	300m	1.0	4	8	2	40-107B	DL14ch
27	MM4627AD		CMS	2	4.99*	.01 C	3.0M†	5	5	0.0	5.0	175n		500m	450m†	5	C	2	40-27B	DL16bz	
28	MM4627AF		CMS	2	4.99*	.01 C	3.0M†	5	5	0.0	5.0	175n		500m	450m†	5	C	2	40-27B	FP98	
29	MM5627AN		CMS	2	4.99*	.01 C	3.0M†	5	5	0.0	5.0	175n		500m	450m†	4	8	2	40-27B	DL16bu	
30#	HEF4027P		CMS	2	7.0 *	3.0	16M†	5	2	0.0	10	175n	5.0nΔ	5.0n	200u%	4.5 †	4	8	2	40-27B	DL16bw
31	4027B		CMS	2	7.1 *	2.9	8.0M†	5	2	0.0	10	250n	5.0u	5.0u	200m	2.8m%	2	7	2	40-27B	DL16be
32#	MSM4027		CMS	2	7.2 *	2.0	8.0M†	4	16e	0.0	10	250n	120n	120n	200m	2.0 *	4	8	2	40-27B	DL16cc
33	883/4027B		CMS	2	8.2	6.7	10M*	8		0.0	15	100n		300m		5	C	2	40-27	MO001AG	
34	CD4095BD		CMS	2	9.95*	.05 C	8.0M*	5	50	0.0	10	200n	5.0u	5.0u	20u%	2.0	5	C	1	40-95B	MO001AD
35	CD4095BE		CMS	2	9.95*	.05 C	8.0M*	5	50	0.0	10	200n	5.0u	5.0u	20u%	2.0	4	8	1	40-95B	MO001AB
36	CD4095BF		CMS	2	9.95*	.05 C	8.0M*	5	50	0.0	10	200n	5.0u	5.0u	20u%	2.0	5	C	1	40-95B	MO001AB
37	CD4096BD		CMS	2	9.95*	.05 C	8.0M*	5	50	0.0	10	200n	5.0uΔ	5.0u	20u%	2.0	5	C	1	74-04N	MO001AB
38	CD4096BE		CMS	2	9.95*	.05 C	8.0M*	5	50	0.0	10	200n	5.0uΔ	5.0u	20u%	2.0	4	8	1	74-04N	MO001AB
39	CD4096BF		CMS	2	9.95*	.05 C	8.0M*	5	50	0.0	10	200n	5.0uΔ	5.0u	20u%	2.0	5	C	1	74-04N	MO001AB
40	SCL4027B		CMS	2	9.95*	.05 C	8.0M†	4	50	0.0	10	160n		200m	3.0 *	5	C	2	40-27B	DL16ar	
41#	SFF24027AEV		CMS	2	9.99*	.01 C	8.0M	5	0	0.0	10	150n	140n	140n	200m	3.0 *	4	8	2	40-27B	DL16ch
42#	SFF24027AKM		CMS	2	9.99*	.01 C	8.0M	5	0	0.0	10	110n	70n	70n	200m	3.0 *	5	C	2	40-27B	DL16ch
43#	MSM531RS		CMS	2.0	3.6 *	0.8	4.0M†	4	0	0.3	7.0	0.5u	5.0n	5.0n	200m	0.4	3	8	2.0	B02-301	DL16Z
44#	MSM4027RS		CMS	2.0	3.6 *	1.0	4.0M†	4	0	0.3	16	0.5u	200n	200n	200m	0.6	4	8	2.0	B02-290	DL16Z
45#	HCC4021BD		CMS	5.8	11 *	4.0	17M\$	4		0.0	18	100n	20n†	20n	200m	2.5 *	5	C	8	B05-36	DL16dh
46#	HCC4021BF		CMS	5.8	11 *	4.0	17M\$	4		0.0	18	100n	20n†	20n	200m	2.5 *	5	C	8	B05-36	DL16dh
47#	HCC4021BK		CMS	5.8	11 *	4.0	17M\$	4		0.0	18	100n	20n†	20n	200m	2.5 *	5	C	8	B05-36	FP131
48#	HCC4076BD		CMS	5.8	11 *	4.0	16M\$	4		0.0	18	90n	20n†	20n	200m	2.5 *	5	C	4	B05-35	DL16dh
49#	HCC4076BF		CMS	5.8	11 *	4.0	16M\$	4		0.0	18	90n	20n†	20n	200m	2.5 *	5	C	4	B05-35	DL16dh
50#	HCC4076BK		CMS	5.8	11 *	4.0	16M\$	4		0.0	18	90n	20n†	20n	200m	2.5 *	5	C	4	B05-35	FP131
51#	HCF4021BE		CMS	5.8	11 *	4.0	17M\$	4		0.0	18	100n	20n†	20n	200m	2.5 *	4	8	8	B05-36	DL16dg
52#	HCF4021BF		CMS	5.8	11 *	4.0	17M\$	4		0.0	18	100n	20n†	20n	200m	2.5 *	4	8	8	B05-36	DL16dg
53#	HCF4076BE		CMS	5.8	11 *	4.0	16M\$	4		0.0	18	90n	20n†	20n	200m	2.5 *	4	8	4	B05-35	DL16dg
54#	HCF4076BF		CMS	5.8	11 *	4.0	16M\$	4		0.0	18	90n	20n†	20n	200m	2.5 *	4	8	4	B05-35	DL16dg
55	CD4013AD		CMS	8	10	0.0 C	10M†	4		0.0	10	110n	5.0uΔ	5.0u	20u%	4.5 †	5	C	2	40-13B	MO001AD
56	CD4013AE		CMS	8	10	0.0 C	10M†	4		0.0	10	125n	5.0uΔ	5.0u	200u%	4.5 †	4	8	2	40-13B	MO001AB
57#	HBC4013AD		CMS	8	10	0.0 C	10M†	4		0.0	10	110n	5.0uΔ	5.0u	20u%	4.5 †	5	C	2	40-13B	MO001AD
58#	HBC4013AF		CMS	8	10	0.0 C	10M†	4		0.0	10	110n	5.0uΔ	5.0u	20u%	4.5 †	5	C	2	40-13B	MO001AD
59#	HBC4013AK		CMS	8	10	0.0 C	10M†	4		0.0	10	110n	5.0uΔ	5.0u	20u%	4.5 †	5	C	2	40-13B	MO004AF
60#	HBF4013AE		CMS	8	10	0.0 C	10M†	4		0.0	10	125m	5.0uΔ	5.0u	200u%	4.5 †	4	8	2	40-13B	MO001AB
61#	HBF4013AF		CMS	8	10	0.0 C	10M†	4		0.0	10	125m	5.0uΔ	5.0u	200u%	4.5 †	4	8	2	40-13B	MO001AD
62#	MB84013B		CMS	8	10.5*	4.5	10M\$*	4	16e	0.0	15	130n	80n	80n	240u%	4.5 *	4	8	2	B08-146	DL16ai

4. BINARY/FLIP-FLOPS

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC (4) LOGIC (5) OPER. NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE	LOGIC LEVEL		MAX. OPER. FREQ. (Hz)	FAN IN		POWER SUPPLY SPAN		PROP. DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS		
					MIN. (V)	MAX. (V)		IN	OUT MAX	NEG (V)	POS. (V)		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE	
1v	HEF40174BTD		CMS	8	11.0*	4.0	45M	8	50e	0.0	15	50n			200mW	6.7	4	8	6	B08-112	FP148
2v	HEF40175BDF		CMS	8	11.0*	4.0	45M	6	18e	0.0	15	50n			400mW	6.7	4	8	4	74-175N	DL16at
3v	HEF40175BPN		CMS	8	11.0*	4.0	45M	6	18e	0.0	15	50n			400mW	6.7	4	8	4	74-175N	DL16cc
4v	HEF40175BTD		CMS	8	11.0*	4.0	45M	6	50e	0.0	15	50n			200mW	6.7	4	8	4	74-175	FP148
5v	S54F74F		CMS	8	11.0*	4.0	70M*	6	50e	0.0	15	11n			200mW	6.7	4	8	4	74-175	FP148
6#	M4013BP		CMS	8	11*	4.0	70M*	6	50e	0.0	18	200n	160n	80n	500mW	4.0	4	8	2	B08-95	DL14cf
7#	M40174BP		CMS	8	11*	4.0	2.5M*			0.0	18	200n	160n	80n	500mW	4.0	4	8	2	54-174	DL16db
8#	M40175BP		CMS	8	11*	4.0A	7.0M*			0.0	18	200n	160n	80n	500mW	4.0	4	8	4	B08-113	DL16bm
9	MC14011BAL		CMS	8	14.9*	.05 C	7.0M*	4	50	0.0	15	100n	130n	80n	500mW	2.5	5	C	2	40-11B	TO116
10#	TC4013BP		CMS	8	14.9*	.05 C	7.0M*		50	0.0	15	200n	160n	80n	300mW	4.0	4	8	2	40-13B	DL14ch
11#	TC40174BP		CMS	8	14.9*	.05 C	7.0M*		50	0.0	15	200n	160n	80n	300mW	4.0	4	8	6	54-174	DL16cr
12#	TC40175BP		CMS	8	14.9*	.05 C	7.0M*		50	0.0	15	200n	160n	80n	300mW	4.0	4	8	4	74-175	DL16cr
13	SCL4174B		CMS	8	15.3*	.45	15m\$			0.0	15	420n	20n	20n	300mW		5	C	1	74-174N	DLZ
14#	G74SC374D		CMS	8	2.0	0.8	20M†	8		0.5	7.0	62n	20n	20n	450mW		4	8	8	B08-143	DL20v
15#	G74SC374P		CMS	8	2.0	0.8	20M†	8		0.5	7.0	62n	20n	20n	450mW		4	8	8	B08-143	DL20w
16v	54HCT374C		CMS	8	2.0\$	0.7	20M*	8	30	0.5	7.0	47n			0.5	0.4	5	C	8	B08-143	DL20aa
17v	54HCT374D		CMS	8	2.0\$	0.7	20M*	8	30	0.5	7.0	47n			0.5	0.4	5	C	8	B08-143	DL20z
18v	54HCT594C		CMS	8	2.0\$	0.7	20M*	8	30	0.5	7.0	47n			0.5	0.4	5	C	8	B08-144	DL20aa
19v	54HCT594D		CMS	8	2.0\$	0.7	20M*	8	30	0.5	7.0	47n			0.5	0.4	5	C	8	B08-144	DL20z
20v	54HCT594C		CMS	8	2.0\$	0.7	20M*	8	30	0.5	7.0	47n			0.5	0.4	5	C	8	B08-144a	DL20aa
21v	54HCT594D		CMS	8	2.0\$	0.7	20M*	8	30	0.5	7.0	47n			0.5	0.4	5	C	8	B08-144a	DL20z
22v	54HCT574C		CMS	8	2.0\$	0.7	20M*	8	30	0.5	7.0	47n			0.5	0.4	5	C	8	B08-143a	DL20aa
23v	54HCT574D		CMS	8	2.0\$	0.7	20M*	8	30	0.5	7.0	47n			0.5	0.4	5	C	8	B08-143a	DL20z
24v	74HCT374C		CMS	8	2.0\$	0.8	35M*	8	30	0.5	7.0	38n			0.5	0.4	4	8	8	B08-143	DL20aa
25v	74HCT374D		CMS	8	2.0\$	0.8	35M*	8	30	0.5	7.0	38n			0.5	0.4	4	8	8	B08-143	DL20z
26v	74HCT374P		CMS	8	2.0\$	0.8	35M*	8	30	0.5	7.0	38n			0.5	0.4	4	8	8	B08-143	DL20y
27v	74HCT594C		CMS	8	2.0\$	0.8	35M*	8	30	0.5	7.0	38n			0.5	0.4	4	8	8	B08-144	DL20aa
28v	74HCT594D		CMS	8	2.0\$	0.8	35M*	8	30	0.5	7.0	38n			0.5	0.4	4	8	8	B08-144	DL20z
29v	74HCT594C		CMS	8	2.0\$	0.8	35M*	8	30	0.5	7.0	38n			0.5	0.4	4	8	8	B08-144	DL20y
30v	74HCT594D		CMS	8	2.0\$	0.8	35M*	8	30	0.5	7.0	38n			0.5	0.4	4	8	8	B08-144a	DL20aa
31v	74HCT564D		CMS	8	2.0\$	0.8	35M*	8	30	0.5	7.0	38n			0.5	0.4	4	8	8	B08-144a	DL20z
32v	74HCT564P		CMS	8	2.0\$	0.8	35M*	8	30	0.5	7.0	38n			0.5	0.4	4	8	8	B08-144a	DL20y
33v	74HCT574C		CMS	8	2.0\$	0.8	35M*	8	30	0.5	7.0	38n			0.5	0.4	4	8	8	B08-143a	DL20aa
34v	74HCT574D		CMS	8	2.0\$	0.8	35M*	8	30	0.5	7.0	38n			0.5	0.4	4	8	8	B08-143a	DL20z
35v	74HCT574P		CMS	8	2.0\$	0.8	35M*	8	30	0.5	7.0	38n			0.5	0.4	4	8	8	B08-143a	DL20y
36v	74SC374C		CMS	8	2.0\$	0.8	20M*	8	30	0.5	7.0	47n			0.5	0.4	4	8	8	B08-143	DL20aa
37v	74SC374D		CMS	8	2.0\$	0.8	20M*	8	30	0.5	7.0	47n			0.5	0.4	4	8	8	B08-143	DL20z
38v	74SC374P		CMS	8	2.0\$	0.8	20M*	8	30	0.5	7.0	47n			0.5	0.4	4	8	8	B08-143	DL20y
39v	74SC534C		CMS	8	2.0\$	0.8	20M*	8	30	0.5	7.0	47n			0.5	0.4	4	8	8	B08-144	DL20aa
40v	74SC534D		CMS	8	2.0\$	0.8	20M*	8	30	0.5	7.0	47n			0.5	0.4	4	8	8	B08-144	DL20z
41v	74SC534P		CMS	8	2.0\$	0.8	20M*	8	30	0.5	7.0	47n			0.5	0.4	4	8	8	B08-144	DL20y
42v	74SC564C		CMS	8	2.0\$	0.8	20M*	8	30	0.5	7.0	47n			0.5	0.4	4	8	8	B08-144a	DL20aa
43v	74SC564D		CMS	8	2.0\$	0.8	20M*	8	30	0.5	7.0	47n			0.5	0.4	4	8	8	B08-144a	DL20z
44v	74SC564P		CMS	8	2.0\$	0.8	20M*	8	30	0.5	7.0	47n			0.5	0.4	4	8	8	B08-144a	DL20y
45v	74SC574C		CMS	8	2.0\$	0.8	20M*	8	30	0.5	7.0	47n			0.5	0.4	4	8	8	B08-143a	DL20aa
46v	74SC574D		CMS	8	2.0\$	0.8	20M*	8	30	0.5	7.0	47n			0.5	0.4	4	8	8	B08-143a	DL20z
47v	74SC574P		CMS	8	2.0\$	0.8	20M*	8	30	0.5	7.0	47n			0.5	0.4	4	8	8	B08-143a	DL20y
48	MC54HC74(JA)		CMS	8	3.2	1.1	30M	8	0.5	7.0	30n	500n	500n	500mW	1.1	5	C	2	B02-329	DL14Z	
49	MC54HC174(JA)		CMS	8	3.2	1.1	30M	8	0.5	7.0	31n	500n	500n	500mW	1.1	5	C	6	B06-29	DL16Z	
50	MC54HC175(JA)		CMS	8	3.2	1.1	25M	8	0.5	7.0	36n	500n	500n	500mW	1.1	5	C	4	B04-137	DL16Z	
51	MC54HC273(JA)		CMS	8	3.2	1.1	30M	8	0.5	7.0	28n	500n	500n	500mW	1.1	5	C	8	B08-157	DL20Z	
52	MC54HC374(JA)		CMS	8	3.2	1.1	30M	12	0.5	7.0	28n	500n		500mW	1.1	5	C	8	B08-158	DL20Z	
53	MC54HC534(JA)		CMS	8	3.2	1.1	30M	8	0.5	7.0	28n	500n		500mW	1.1	5	C	8	B08-158a	DL20Z	
54	MC74HC74(JA)		CMS	8	3.2	1.1	30M	10	0.5	7.0	30n	500n	500n	500mW	1.1	4	8	2	B02-329	DL14Z	
55	MC74HC74N(A)		CMS	8	3.2	1.1	30M	10	0.5	7.0	30n	500n	500n	500mW	1.1	4	8	2	B02-329	DL14Z	
56	MC74HC174(JA)		CMS	8	3.2	1.1	30M	10	0.5	7.0	31n	500n	500n	500mW	1.1	4	8	6	B06-29	DL16Z	
57	MC74HC174N(A)		CMS	8	3.2	1.1	30M	10	0.5	7.0	31n	500n	500n	500mW	1.1	4	8	6	B06-29	DL16Z	
58	MC74HC175J		CMS	8	3.2	1.1	25M	10	0.5	7.0	36n	500n	500n	500mW	1.1	4	8	4	B04-137	DL16Z	
59	MC74HC175N(A)		CMS	8	3.2	1.1	25M	10	0.5	7.0	36n	500n	500n	500mW	1.1	4	8	4	B04-137	DL16Z	
60	MC74HC273(JA)		CMS	8	3.2	1.1	25M	10	0.5	7.0	36n	500n	500n	500mW	1.1	4	8	4	B04-137	DL16Z	
61	MC74HC273N(A)		CMS	8	3.2	1.1	30M	10	0.5	7.0	28n	500n	500n	500mW	1.1	4	8	8	B08-157	DL20Z	
62	MC74HC374(JA)		CMS	8	3.2	1.1	30M	10	0.5	7.0	28n	500n	500n	500mW	1.1	4	8	8	B08-157	DL20Z	
63	MC74HC374N(A)																				

4. BINARY/FLIP-FLOPS

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC (4) LOGIC (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE	LOGIC LEVEL			MAX. OPER. FREQ. (Hz)	FAN		POWER SUPPLY SPAN (V)	PROP. DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE (°C)	CKTS PER MOD	DRAWINGS		
					3 MIN. (V)	4 MAX. (V)	MAX. OPER. FREQ. (Hz)		IN	OUT MAX			RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE	
					1' (V)	0' (V)	(Hz)		NEG (V)	POS. (V)			(S)	(S)							
1#	TC40H374P		CMS	8	4.0*	1.0	10M\$	4	50	0.0	5.0	57n	30n	30n	300m	1.0	4	8	40H374	DL20u	
2	MM4613AD		CMS	8	4.99*	.01 C	10M\$	4		0.0	5.0	150n		500m	450m†	5	5	2	40-13B	DL14bi	
3	MM4613AF		CMS	8	4.99*	.01 C	10M\$	4		0.0	5.0	150n		500m	450m†	5	5	2	40-13B	FP97b	
4	MM5613AN		CMS	8	4.99*	.01 C	10M\$	4		0.0	5.0	150n		500m	450m†	4	8	2	40-13B	DL14bt	
5	CD40175BD		CMS	8	7	3	5M	4	2	0	18	160n	15u	15u	500m	4	5	5	4	74-175	DL16dw
6	CD40175BE		CMS	8	7	3	5M	4	2	0	18	160n	15u	15u	500m	4	4	8	4	74-175	DL16dw
7	CD40175BF		CMS	8	7	3	5M	4	2	0	18	160n	15u	15u	500m	4	5	5	4	74-175	DL16dx
8	CD4076BC		CMS	8	7.0	3.0	12M	4	2	0	15	50n	20n	20n	500m	4.5 †	4	8	1	74-173N	DLZ
9	CD4076BM		CMS	8	7.0	3.0	12M	4	2	0	15	50n	20n	20n	500m	4.5 †	5	5	1	74-173N	DLZ
10#	HEF4013P		CMS	8	7.0 *	3.0	16M	4		0.0	10	30n		2.8m%		4	8	2	40-13B	TO116	
11#	HEF40174P		CMS	8	7.0 *	3.0	16M\$	3		0.0	10	40n		400u%	4.5 †	4	8	6	54-174	DL16bw	
12#	HEF40175P		CMS	8	7.0 *	3.0	16M\$	3		0.0	10	40n	5.0nΔ	5.0n	400u%	4.5 †	4	8	4	74-175N	DL16bw
13#	MSM4013		CMS	8	7.2 *	2.0	10M\$	4	16e	0.0	10	250n	120n	120n	2.8m%	2.0 *	2	7	2	40-13B	DL14cg
14	MM54C173D		CMS	8	8.0	2.0	12M\$	4	2	0	15	180n		500m	4.5 †	5	5	4	74-173N	DLZ	
15	MM54C174D		CMS	8	8.0	2.0	12M\$	6	2	0	15	75n		500m	4.5 †	5	5	6	74-174N	DLZ	
16	MM54C175D		CMS	8	8.0	2.0	10M\$	4	2	0	15	75n		500m	4.5 †	5	5	4	74-175N	DLZ	
17	MM74C173N		CMS	8	8.0	2.0	12M\$	4	2	0	15	180n		500m	4.5 †	4	8	4	74-173N	DLZ	
18	MM74C174N		CMS	8	8.0	2.0	12M\$	6	2	0	15	75n		500m	4.5 †	4	8	6	74-174N	DLZ	
19	MM74C175N		CMS	8	8.0	2.0	10M\$	4	2	0	15	75n		500m	4.5 †	4	8	4	74-175N	DLZ	
20	883/4013B		CMS	8	8.2	6.7	25M\$	8		0.0	15	90n		300m		5	5	2	40-13	MO001AA	
21	883/4076B		CMS	8	8.2	6.7	16M\$	8		0.0	15	90n		300m		5	5	1	74-173	MO001AG	
22	883/4174B		CMS	8	8.2	6.7	15M\$	6		0.0	15	100n		300m		5	5	6	74-174	MO001AG	
23	SCL4076B		CMS	8	8.2	6.7	16M\$	8		0.0	15	90n		300m		5	5	1	74-173N	MO001AG	
24	SCL4013B		CMS	8	9.95*	.05 C	16M\$	4	50	0.0	10	130n		2.0u%	3.0	5	5	2	B08-83	MO001AA	
25	CD4013AF		CMS	8	9.99*	.01 C	10M\$	4		0.0	10			20u%	4.5 †	5	5	2	40-13B	MO001AB	
26#	SFF24013AEV		CMS	8	9.99*	.01 C	10M	4		0.0	10	125n	75n	75n	200m	3.0 *	4	8	2	B08-96	TO116
27#	SFF24013AKM		CMS	8	9.99*	.01 C	10M	4		0.0	10	110n	70n	70n	200m	3.0 *	5	5	2	B08-96	TO116
28#	MSM4013RKS		CMS	8.0	3.6 *	1.0	4.0M\$	4	40	0.3	16	0.5u	200n	200n	200m	0.6	4	8	2.0	B08-87	DL14Z
29	9926HM		DTL	2			20M\$	3	11	4.0	12			500m		5	5	1	B02-62	TO100	
30#	SFC472HE		DTL	2				8	2	0	7	6n		20m†	400m	0	7	1	B02-94b	TO116	
31#	SFC472HPM		DTL	2				6	2	0	7	6n		20m†	400m	5	5	1		ZBZ	
32#	SFC472PM		DTL	2				6	2	0	7	13n		10m†	400m	5	5	1		ZBZ	
33#	SFC473PM		DTL	2				6	2	0	7	13n		10m†	400m	5	5	2	74-73N	ZBZ	
34#	ZN221		DTL	2	.20	4.0		8	6	0.0	5.0	50n		19m		5	5	1		TO88	
35#	ZN221E		DTL	2	.20	4.0		8	6	0.0	5.0	50n		19m		0	7	1		DL14m	
36#	ZN222		DTL	2	.20	4.0		4	6	0.0	5.0	50n		19m		5	5	2		TO86	
37#	ZN222E		DTL	2	.20	4.0		4	6	0.0	5.0	50n		19m		0	7	2		DL14m	
38#	ZN248		DTL	2	.20	4.0		7	6	0.0	5.0	50n		19m		5	5	1		TO88	
39#	ZN248E		DTL	2	.20	4.0		7	6	0.0	5.0	50n		19m		0	7	1		DL14m	
40#	ZN294E		DTL	2	.20	4.0		8	6	0.0	4.5	9.0n		19m	1.0	0	7	2		DL14m	
41#	ZN297E		DTL	2	.20	4.0		8	6	0.0	4.5	9.0n		19m	1.0	0	7	2		DL14m	
42#	ZN321		DTL	2	.20	4.0		8	6	0.0	5.0	15n		19m	1.0	5	5	1		TO88	
43#	ZN321E		DTL	2	.20	4.0		8	6	0.0	5.0	15n		19m	1.0	0	7	1		DL14m	
44#	ZN322		DTL	2	.20	4.0		4	6	0.0	5.0	15n		19m	1.0	5	5	2		TO88	
45#	ZN322E		DTL	2	.20	4.0		4	6	0.0	5.0	15n		19m	1.0	0	7	2		DL14m	
46#	ZN348		DTL	2	.20	4.0		7	6	0.0	5.0	15n		19m	1.0	5	5	1		TO88	
47#	ZN348E		DTL	2	.20	4.0		7	6	0.0	5.0	15n		19m	1.0	0	7	1		DL14m	
48#	ZN394E		DTL	2	.20	4.0		8	6	0.0	4.5	15n		19m	1.0	0	7	2		DL14m	
49#	ZN397E		DTL	2	.20	4.0		8	6	0.0	4.5	15n		19m	1.0	0	7	2		DL14m	
50#	ZSF51B		DTL	2	.20	4.0		4	6	0.0	5.0	50n		19m	5	5	1		CN2		
51#	ZSF51CT		DTL	2	.20	4.0		8	6	0.0	4.5	9.0n		19m	1.0	5	5	1		TO5	
52#	ZSF81B		DTL	2	.20	4.0		4	6	0.0	5.0	50n		19m	5	5	1		CN2		
53#	ZSF81CT		DTL	2	.20	4.0		8	6	0.0	4.5	9.0n		19m	1.0	0	7	1		TO5	
54#	9093DM		DTL	2	1.7 *	1.4		4	10	0.0	5.0	75n		140m	1.0 †	5	5	2	B08-123	DL14av	
55#	9093FM		DTL	2	1.7 *	1.4		4	10	0.0	5.0	75n		140m	1.0 †	5	5	2	B08-123	FP28g	
56#	9099DM		DTL	2	1.7 *	1.4		4	10	0.0	5.0	75n		140m	1.0 †	5	5	2	B08-124	DL14av	
57#	9099FM		DTL	2	1.7 *	1.4		4	10	0.0	5.0	75n		140m	1.0 †	5	5	2	B08-124	FP28g	
58#	9093BC		DTL	2	1.8 *	1.2		4	10	0.0	5.0	90n		150m	1.0 †	0	7	2	B08-123	DL14v	
59#	9093DC		DTL	2	1.8 *	1.2		4	10	0.0	5.0	90n		150m	1.0 †	0	7	2	B08-123	DL14av	
60#	9093FC		DTL	2	1.8 *	1.2		4	10	0.0	5.0	90n		150m	1.0 †	0	7	2	B08-123	FP28g	
61#	9094BC		DTL	2	1.8 *	1.2		4	10	0.0	5.0	80n		175m	1.0 †	0	7	2	B02-200	DL14v	
62#	9094DC		DTL	2	1.8 *	1.2		4	10	0.0	5.0	80n		175m	1.0 †	0	7	2	B02-200	DL14av	
63#	9094DM		DTL	2	1.8 *	1.2		4	10	0.0	5.0	80n		162m	1.0 †	5	5	2	B02-200	DL14av	
64#	9094FC		DTL	2	1.8 *	1.2		4	10	0.0	5.0	80n		175m	1.0 †	0	7	2	B02-200	FP28g	
65#	9094FM		DTL	2	1.8 *	1.2		4	10	0.0	5.0	80n		162m	1.0 †	5	5	2	B02-200	FP28g	
66#	9097BC		DTL	2	1.8 *	1.2		4	10	0.0	5.0	80n		162m	1.0 †	0	7	2	B02-200a	DL14v	
67#	9097DC		DTL	2	1.8 *	1.2		4	10	0.0	5.0	80n		162m	1.0 †	0	7	2	B02-200a	DL14av	
68#	9097DM		DTL	2	1.8 *	1.2		4	10	0.0	5.0	80n		162m	1.0 †	5	5	2	B02-200a	DL14av	
69#	9097FC		DTL	2	1.8 *	1.2		4	10	0.0	5.0	80n		162m	1.0 †	0	7	2	B02-200a	FP28g	
70#	9097FM		DTL	2	1.8 *	1.2		4	10	0.0	5.0	80n		162m	1.0 †	5	5	2	B02-200a	FP28g	
71#	9099BC		DTL	2	1.8 *	1.2		4	10	0.0	5.0	90n		140m	1.0 †	0	7	2	B08-124	DL14v	
72#	9099DC		DTL	2	1.8 *	1.2		4	10	0.0	5.0	90n		140m	1.0 †	0	7	2	B08-124	DL14av	
73#	9099FC		DTL	2	1.8 *	1.2		4	10	0.0	5.0	90n		140m	1.0 †	0	7	2	B08-124	FP28g	
74	SN158093F		DTL	2	1.9 *	1.1	7.0M\$	4	12	0	8	75n		80m		0	7	2	B02-91a	TO84	
75	SN158093J		DTL	2	1.9 *	1.1	7.0M\$	4	12	0	8	75n		80m		0	7	2	54-73w	TO116	
76	SN158093N		DTL	2	1.9 *	1.1	7.0M\$	4	12	0	8	75n		80m		0	7	2	74-73N	DL14m	
77	SN158093R		DTL	2	1.9 *	1.1	7.0M\$	4	12	0	8	75n									

4. BINARY/FLIP-FLOPS

IN ORDER OF:(1)TECHNOLOGY(2)TYPE(3)LOGIC*(4)LOGIC*(5)TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE	LOGIC LEVEL		MAX. OPER. FREQ. (Hz)	FAN IN		POWER SUPPLY SPAN		PROP. DELAY (S)	RISE TIME (S)	FALL TIME (S)	MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS			
					3 MIN. '1' (V)	4 MAX. '0' (V)		IN	OUT MAX	NEG (V)	POS (V)								LOGIC OR BLOCK	OUTLINE		
1#	FCJ101		DTL	2	2.3	.80	5.0M	7	7	0	6				81m	1.2 †	0	7	1	B02-87a	TO116	
2	SN15931		DTL	2	2.4	.4	7.0M\$	7	14	0	8	75n			20m		5	7	1	B02-87	TO84	
3	SN15945		DTL	2	2.4	.4	7.0M\$	7	20	0	8	75n			20m		5	7	1	B02-103	TO84	
4	SN15948		DTL	2	2.4	.4	7.0M\$	7	18	0	8	75n			20m		5	7	1	B02-103	TO84	
5	MC952L		DTL	2	2.6	.40		4	20	0.0	5.0	40n			120m†		5	7	2	B02-101	TO116	
6	MC953L		DTL	2	2.6	.40		4	20	0.0	5.0	40n			120m†		5	7	2	B02-101a	TO116	
7	MC955L		DTL	2	2.6	.40		4	18	0.0	5.0	40n			140m†		5	7	2	B02-101b	TO116	
8	MC956L		DTL	2	2.6	.40		4	18	0.0	5.0	40n			140m†		5	7	2	B02-101c	TO116	
9	DM9093N		DTL	2	2.6	.45	C	4		0.0	5.0	100n			180m%		0	7	2		DL14bt	
10	DM9094N		DTL	2	2.6	.45	C	4		0.0	5.0	100n			225m%		0	7	2		DL14bt	
11	DM9097N		DTL	2	2.6	.45	C	8		0.0	5.0	100n			225m%		0	7	1		DL14bt	
12	DM9099N		DTL	2	2.6	.45	C	8		0.0	5.0	100n			180m%		0	7	1		DL14bt	
13	MC852L,P%		DTL	2	2.6	.45		4	24	0.0	5.0	40n			120m†		0	7	2	B02-101	TO116	
14	MC853L,P%		DTL	2	2.6	.45		4	24	0.0	5.0	40n			120m†		0	7	2	B02-101a	TO116	
15	MC855L,P%		DTL	2	2.6	.45		4	22	0.0	5.0	40n			140m†		0	7	2	B02-101b	TO116	
16	MC856L,P%		DTL	2	2.6	.45		4	22	0.0	5.0	40n			140m†		0	7	2	B02-101c	TO116	
17	SN15831		DTL	2	2.6	.45	C	7	14	0	8	75n			30m†		0	7	1	B02-87	TO84	
18	SN15831N		DTL	2	2.6	.45	C	7	14	0	8	75n			30m†		0	7	1	B02-87	DL14m	
19	SN15845		DTL	2	2.6	.45	C	7	24	0	8	75n			20m†		0	7	1	B02-103	TO84	
20	SN15845N		DTL	2	2.6	.45	C	7	24	0	8	75n			20m†		0	7	1	B02-103	DL14m	
21	SN15848		DTL	2	2.6	.45	C	7	22	0	8	70n			20m†		0	7	1	B02-103	TO84	
22	SN15848N		DTL	2	2.6	.45	C	7	22	0	8	75n			20m†		0	7	1	B02-103	DL14m	
23	SP322B		DTL	2	3.6	.60	C	5	9	0.0	5.0				1.1 *	0	7	2	B02-250	DL16be		
24	SP321A		DTL	2	3.6	.60		13		0	6	35n			90m†	800m	0	7	2		DL14k	
25#	FCJ111		DTL	2	5.3	.4	C	3.0M	5	8	0	8	140n					0	7	1	B03-8v	TO116
26	312AJ		DTL	2	6.5	Δ	5.0 *	5.0M†	5	5	0.0	15	600n			620m†	3.2	3	7	2	B03-8q	DL16bq
27	312AL		DTL	2	6.5	Δ	5.0 *	5.0M†	5	5	0.0	15	600n			620m†	3.2	3	7	2	B03-8q	DL16ad
28	312CJ		DTL	2	6.5	Δ	5.0 *	5.0M†	5	6	0.0	12	80n			280m	3.5	3	8	2	B03-8q	DL16bq
29	312CL		DTL	2	6.5	Δ	5.0 *	5.0M†	5	5	0.0	12	600n			360m†	3.5	3	8	2	B03-8q	DL16ad
30	313AJ		DTL	2	6.5	Δ	5.0 *	5.0M†	5	5	0.0	15	600n			620m†	3.2	3	7	2	B03-8q	DL16bq
31	313AL		DTL	2	6.5	Δ	5.0 *	5.0M†	5	5	0.0	15	600n			620m†	3.2	3	7	2	B03-8q	DL16ad
32	313CJ		DTL	2	6.5	Δ	5.0 *	5.0M†	5	5	0.0	12	600n			360m†	3.5	3	8	2	B03-8q	DL16bq
33	313CL		DTL	2	6.5	Δ	5.0 *	5.0M†	5	5	0.0	12	600n			360m†	3.5	3	8	2	B03-8q	DL16ad
34	311AL		DTL	2	7.0	Δ	5.0 *		10	6	0.0	15	820n			375m†	3.2	3	7	1	B02-148	DL16ad
35	311CL		DTL	2	7.0	Δ	5.0 *		10	6	0.0	12	820n			216m†	3.5	3	8	1	B02-148	DL16ad
36#	FZJ121		DTL	2	7.5	Δ	4.0	500k†	5	10	0.0	12			288m	5.0 †	0	7	2	B02-266	DL16k	
37#	FZJ125		DTL	2	7.5	Δ	4.0	500k†	5	10	0.0	12			288m	5.0 †	2	8	2	B02-266	DL16k	
38#	FZJ101		DTL	2	7.5	Δ	4.5	500k†	7	10	0.0	12	770n	340n†	120n	168m	5.0 †	0	7	1	B02-242	DL16k
39#	FZJ105		DTL	2	7.5	Δ	4.5	500k†	7	10	0.0	12	770n	340n†	120n	168m	5.0 †	2	8	1	B02-242	DL16k
40#	FZJ111		DTL	2	7.5	Δ	4.5	500k†	10	10	0.0	12	770n	340n†	120n	168m	5.0 †	0	7	1	B02-242a	DL16k
41#	FZJ115		DTL	2	7.5	Δ	4.5	500k†	10	10	0.0	12	770n	340n†	120n	168m	5.0 †	2	8	1	B02-242a	DL16k
42#	H110D1		DTL	2	8.0	Δ	6.0	1.0MT†	4	25	0.0	20	600n			700m	5.0 †	0	7	2	B02-245	DL14av
43#	H110D2		DTL	2	8.0	Δ	6.0	1.0MT†	4	16	0.0	20	600n			384m	5.0 †	5	7	2	B02-245	DL14av
44#	H110D6		DTL	2	8.0	Δ	6.0	1.0MT†	4	16	0.0	20	600n			448m	5.0 †	4	8	2	B02-245	DL14bz
45#	H111D1		DTL	2	8.0	Δ	6.0	1.0MT†	4	25	0.0	20	600n			700m	5.0 †	0	7	2	B02-245a	DL16z
46#	H111D2		DTL	2	8.0	Δ	6.0	1.0MT†	4	16	0.0	20	600n			384m	5.0 †	5	7	2	B02-245a	DL16z
47#	H111D6		DTL	2	8.0	Δ	6.0	1.0MT†	4	16	0.0	20	600n			448m	5.0 †	4	8	2	B02-245a	DL16z
48#	H159D1		DTL	2	8.0	Δ	6.0		2	25	0.0	20	770n			5.0 †	0	7				
49#	H165D1		DTL	2	8.0	Δ	6.0		2	25	0.0	20			5.0 †	0	7					
50#	H166D1		DTL	2	8.0	Δ	6.0		2	25	0.0	20			5.0 †	0	7					
51#	H210B1		DTL	2	8.0	Δ	6.0	1.0MT†	2	25	0.0	16	600n			700m%	5.0 †	0	7	2	B02-245	DL14by
52#	H211B1		DTL	2	8.0	Δ	6.0	1.0MT†	2	25	0.0	16	600n			700m%	5.0 †	0	7	2	B02-245a	DL16z
53	SN15931N		DTL	2,3	1.9	.95	10M\$	7	7	0.0	5.0	75n			20m†		5	7	1	B02-87	DL14n	
54	SN15945N		DTL	2,3	1.9	1.1	10M\$	7	10	0.0	5.0	75n			20m†		5	7	1	B02-103	DL14n	
55	SN15948N		DTL	2,3	1.9	1.1	10M\$	7	9	0.0	5.0	75n			20m†		5	7	1	B02-103	DL14n	
56	SP620A		DTL	2,6			5.0M†	5	8	0.0	4.5				135m†	2.0	0	7	1		DL14h	
57	945DM		DTL	3	1.7	1.4		7	10	0.0	5.0	75n			70m	1.0 †	5	7	1	B03-95	DL14av	
58	945FM		DTL	3	1.7	1.4		7	10	0.0	5.0	75n			70m	1.0 †	5	7	1	B03-95	FP28g	
59	948DM		DTL	3	1.7	1.4		7	10	0.0	5.0	75n			81m	1.0 †	5	7	1	B03-95a	DL14av	
60	948FM		DTL	3	1.7	1.4		7	10	0.0	5.0	75n			81m	1.0 †	5	7	1	B03-95a	FP28g	
61#	9945DM		DTL	3	1.7	1.4		7	10	0.0	5.0	75n			70m	1.0 †	5	7	1	B03-95	DL14av	
62#	9945FM		DTL	3	1.7	1.4		7	10	0.0	5.0	75n			70m	1.0 †	5	7	1	B03-95	FP28g	
63#	9948DM		DTL	3	1.7	1.4		7	10	0.0	5.0	75n			81m	1.0 †	5	7	1	B03-95a	DL14av	
64#	9948FM		DTL	3	1.7	1.4		7	10	0.0	5.0	75n			81m	1.0 †	5	7	1	B03-95a	FP28g	
65#	9945BC		DTL	3	1.8</																	

4. BINARY/FLIP-FLOPS

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC (4) LOGIC (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	Y	LOGIC LEVEL			MAX. OPER. FREQ. (Hz)	FAN		POWER SUPPLY SPAN		PROP. DELAY (S)	MAXIMUM			MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE (°C)	PKTS PER MOD	DRAWINGS	
					3	4	5		IN	OUT MAX	NEG (V)	POS. (V)		RISE TIME (S)	FALL TIME (S)	MAX. OPER. POWER REJECT (W)					LOGIC OR BLOCK	OUTLINE
1#	GXB10135D	ECL	2	2	-81	-1.4	140M	4	5.2	0.0	2.0n	2.0n	2.0n			3	8	2	B08-268	DL16gb		
2#	GXB10135P	ECL	2	2	-81	-1.4	140M	4	5.2	0.0	2.0n	2.0n	2.0n			3	8	2	B08-268	DL16ga		
3	10135F	ECL	2	2	-96*	-1.6C	140MT†	5	5.2	0.0	3.0n	4.5n	4.5n		235m†	145m	0	8	2	B08-268	DL16aw	
4#	HD100158	ECL	5	5	-1.2*	-1.5			5.7	0.0	4.1n				40m†	145m	0	8	8	B05-36	DL24aw	
5#	HD100158F	ECL	5	5	-1.2*	-1.5			5.7	0.0	4.1n				40m†	145m	0	8	8	B05-36	FP14f	
6#	SP16F70	ECL	8	8	.96 *	1.62C	350MT*	5	70	5.2	0.0		2.5n	1.9n	220m†	135m	3	8	1	B03-153	DL16dm	
7#	SP1670	ECL	8	8	.96 *	1.62C	300MT*	5	70	5.2	0.0		2.5n	1.9n	220m†	135m	3	8	1	B03-153	DL16dm	
8#	SP9131	ECL	8	8	.96 *	1.65C	520MT*	5	70	5.2	0.0	1.0n	1.2n	1.2n	364m	175m	3	8	2	B08-33	DL16dm	
9#	GXB10131D	ECL	8	8	-.70	-1.9	160M		5.2	0.0	4.8n	2.0n	2.0n			3	8	2	B08-33	DL16dz		
10#	GXB10131P	ECL	8	8	-.70	-1.9	160M		5.2	0.0	4.8n	2.0n	2.0n			3	8	2	B08-33	DL16dy		
11#	GXB10176D	ECL	8	8	-.70	-1.9	150M		5.2	0.0	5.0n	4.4n	4.4n			3	8	6	B08-100	DL16dz		
12#	GXB10176P	ECL	8	8	-.70	-1.9	150M		5.2	0.0	5.0n	4.4n	4.4n			3	8	6	B08-100	DL16dy		
13#	GXB10231D	ECL	8	8	-.70	-1.9	225M		5.2	0.0	3.7n	3.6n	3.6n			3	8	2	B08-82	DL16dz		
14#	GXB10231P	ECL	8	8	-.70	-1.9	225M		5.2	0.0	3.7n	3.6n	3.6n			3	8	2	B08-82	DL16dy		
15#	HD10131	ECL	8	8	-.81	-1.8C	160MT†		5.2	0.0	3.0n				200m		3	8	2	L0-117	DL16g	
16#	HD10231	ECL	8	8	-.81	-1.8C	250MT†		5.2	0.0	3.4n				200m		3	8	2	L0-117	DL16g	
17#	SAB1801D	ECL	8	8	-.81	-1.8	110M	4	5.2	0.0						0	7	2	B08-160	DL14Z		
18#	100131D	ECL	8	8	-.88	-1.8	400M	3	4.5	0.0	1.5n	1.3n	1.3n		145m		0	8	3	B08-107	DL24bb	
19#	100150D	ECL	8	8	-.88	-1.8	400M	2	4.5	0.0	1.2n	1.5n	1.5n		145m		0	8	6	B08-147	DL24bb	
20#	100150F	ECL	8	8	-.88	-1.8	400M	2	4.5	0.0	1.2n	1.5n	1.5n		145m		0	8	6	B08-147	DL24bb	
21	F10631DM	ECL	8	8	-.93*	-1.6C	225MT†	5	2	5.2	0.0	3.3n			338m*	145m*	5	C	2	B08-106	DL16ci	
22	F10631FM	ECL	8	8	-.93*	-1.6C	225MT†	5	.2	5.2	0.0	3.3n			338m*	145m*	5	C	2	B08-106	FP103	
23	F100151DC	ECL	8	8	-.9Δ	-1.8*				5	0	2.4n				0.1	0	8	6	B08-147	DL24an	
24	F100151FC	ECL	8	8	-.9Δ	-1.8*				5	0	2.2n				0.1	0	8	6	B08-147	FP139	
25	F100131DC	ECL	8	8	-.11*	-1.4	550MT†	5	78g	4.5	0.0	2.7n			670m*	140m*	0	7	3	B08-107	DL24an	
26	F100131FC	ECL	8	8	-.11*	-1.4	550MT†	5	78g	4.5	0.0	2.7n			670m*	140m*	0	7	3	B08-107	FP126	
27#	HD100131	ECL	8	8	-.12*	-1.5	300MT*		5.7	0.0	1.8n			40m†	145m	0	8	3	B08-107	DL24aw		
28#	HD100131F	ECL	8	8	-.12*	-1.5	300MT*		5.7	0.0	1.8n			40m†	145m	0	8	3	B08-107	FP14e		
29#	HD100151F	ECL	8	8	-.12*	-1.5	400MT*		5.7	0.0	2.6n			40m†	145m	0	8	6	B08-147	DL24aw		
30#	HD100151F	ECL	8	8	-.12*	-1.5	400MT*		5.7	0.0	2.6n			40m†	145m	0	8	6	B08-147	FP14e		
31#	HXA100131D#ai	ECL	8	8	-.18	-.88	400M\$	18	6	4.5	0	1.3n	1.3n	1.3n	430m		0	8	3	B08-107	DLZ	
32#	HXA100131F#ai	ECL	8	8	-.18	-.88	400M\$	18	6	4.5	0	1.3n	1.3n	1.3n	430m		0	8	3	B08-107	FPZ	
33#	HXA100150D	ECL	8	8	-.18	-.88		12	6	4.5	0	0.9n	1.5n	1.5n	450m		0	8	6	B08-147	DLZ	
34#	HXA100150F	ECL	8	8	-.18	-.88		12	6	4.5	0	0.9n	1.5n	1.5n	450m		0	8	6	B08-147	FPZ	
35#	HXA100151D	ECL	8	8	-.18	-.88	400MT	12	6	4.5	0	0.9n	1.5n	1.5n	630m		0	8	6	B08-147	DLZ	
36#	HXA100151F	ECL	8	8	-.18	-.88	400MT	12	6	4.5	0	0.9n	1.5n	1.5n	630m		0	8	6	B08-147	FPZ	
37	MC10H131L	ECL	8	8	1.13*	1.48	250MT*†	4		5.2	0.0	2.3n	2.3n	2.3n	235m†	150m	0	7	2	B08-151	DL16Z	
38	MC10H131P	ECL	8	8	1.13*	1.48	250MT*†	4		5.2	0.0	2.3n	2.3n	2.3n	235m†	150m	0	7	2	B08-151	DL16Z	
39	N1013A	ECL	2	2	-.85	-1.8	85M	4	25	5.2	0.0	6.0n	8.5n	8.5n	125m	400m	0	7	2		DL16t	
40	N1027A	ECL	2	2	-.85	-1.8		4	25	5.2	0.0	4.0n	8.5n	8.5n	250m	400m	0	7	2		DL16t	
41#	GXB10135	ECL	2	2	-.88	-1.7C	150M	5	5.2	0.0	2.0n	2.0n†	2.0n			0	7	2	B02-268	DL16r		
42	F10535DM	ECL	2	2	-.93*	-1.6C	125MT*	5	40g	5.2	0.0	5.0n			353m*	145m*	5	C	2	B02-268	DL16ci	
43	F10535FM	ECL	2	2	-.93*	-1.6C	125MT*	5	40g	5.2	0.0	5.0n			353m*	145m*	5	C	2	B02-268a	FP103	
44	MC10535F	ECL	2	2	-.93*	1.6 C	140MT†	5	5.2	0.0	4.5n	5.0n	5.0n		280m†		5	C	2	B02-268	FP85	
45	MC10535L	ECL	2	2	-.93*	1.6 C	140MT†	5	5.2	0.0	4.5n	5.0n	5.0n		280m†		5	C	2	B02-268	DL16aj	
46	F10135DC	ECL	2	2	-.96*	-1.6C	125MT*	5	80g	5.2	0.0	5.0n			353m*	145m*	0	7	2	B02-268	DL16ci	
47#	MB10135	ECL	2	2	-.96*	-1.6C	140M	5	70	5.2	0.0	5.0n	4.5n	4.5n	280m†		3	8	2	B02-268	DL16ak	
48#	MB10135M	ECL	2	2	-.96*	-1.6C	140M	5	70	5.2	0.0	5.0n	4.5n	4.5n	280m†		3	8	2	B02-268	DL16ap	
49	MC10135L	ECL	2	2	-.96*	-1.6C	140MT†	5	5.2	0.0	3.0n	2.0n†	2.0n		280m†		3	8	2	B02-268	DL16aj	
50	MC10135P	ECL	2	2	-.96*	-1.6C	140MT†	5	5.2	0.0	3.0n	2.0n†	2.0n		280m†		3	8	2	B02-268	DL16bo	
51	F95029DC	ECL	2	2	-.11*	-1.4	250MT†	5	70g	5.2	0.0	6.3n			239m*	140m*	0	7	1	B02-314	DL16cj	
52	N1014A	ECL	3	3	-.85	-1.8		2	25	5.2	0.0	6.0n	9.0n	9.0n	140m	400m	0	7	2		DL16t	
53	N1015A	ECL	3	3	-.85	-1.8		2	25	5.2	0.0	6.0n	9.0n	9.0n	140m	400m	0	7	2		DL16t	
54	N1016A	ECL	3	3	-.85	-1.8		1	25	5.2	0.0	6.0n	9.0n	9.0n	140m	400m	0	7	2		DL16t	
55	N1033A	ECL	3	3	-.85	-1.8		1	25	5.2	0.0	6.0n	9.0n	9.0n	140m	400m	0	7	2		DL16t	
56	MC1666F	ECL	3	3	-.96*	-1.6C	160M	3	70	5.2	0.0	1.8n	2.5n	2.2n	220m†		3	8	2	B03-150	FP85	
57	MC1666L	ECL	3	3	-.96*	-1.6C	160M	3	70	5.2	0.0	1.8n	2.5n	2.2n	220m†		3	8	2	B03-150	DL16aj	
58	10131F	ECL	8	8	-.88	-1.7	160M	1	90	5.2	0.0	3.0n	4.5n	4.5n	290m	150m	3	8	2		DL16r	
59#	GXB10131	ECL	8	8	-.88	-1.7	160M\$†	5	5.2	0.0	3.0n	2.0n†	2.0n		230m†		0	7	2	B08-33	DL16ag	
60#	GXB10176	ECL	8	8	-.88	-1.7C	150M	2	5.2	0.0	2.0n	2.0n†	2.0n			0	7	6	B08-100	DL16r		
61#	GXB10231	ECL	8	8	-.88	-1.7C	225M	5	5.2	0.0	1.5n					0	7	2	B08-82	DL16r		
62	F10531DM	ECL	8	8	-.93*	-1.6C	125MT*	5	40g	5.2	0.0	4.5n	4.5n	4.5n	291m*	145m*	5	C	2	B08-105	DL16cj	
63	F10531FM	ECL	8	8	-.93*	-1.6C	125MT*	5	40g	5.2	0.0	4.5n	4.5n	4.5n	291m*	145m*	5	C	2	B08-105	FP103	
64	MC10531F	ECL	8	8	-.93*	-1.6C	160MT†	5	5.2	0.0	4.3n	4.5n	4.5n		235m†		5	C	2	B08-33	FP85	
65	MC10531L	ECL	8	8	-.93*	-1.6C	160MT†	5	5.2	0.0	4.3n	4.5n	4.5n		235m†		5	C	2	B08-33	DL16aj	
66	MC10631F	ECL	8	8	-.93*	-1.6C	225MT†	5	5.2	0.0	2.0n	3.1n	3.1n		270m†		5	C	2	B08-33	FP85	
67	MC10631L	ECL	8	8	-.93*	-1.6C	225MT†	5	5.2	0.0	2.0n	3.1n	3.1n		270m†		5	C	2	B08-33	DL16aj	
68	10231F	ECL	8	8	-.96*	-1.6C	225MT†	5	5.2	0.0	2.0n	3.1n	3.1n		270m†		3	8	2	B08-82	DL16w	
69#	10231N	ECL	8	8	-.96*	-1.6C	225MT†	5	5.2	0.0	2.0n	3.1n	3.1n		270m†		3	8	2	B08-82	DL16be	
70	F11C06DC	ECL	8	8	-.96*	-1.6C	650MT†	4	83g	5.2	0.0	1.2n			306m*	145m*	0	7	1	B08-103	DL16ci	
71	F11C70DC	ECL	8	8	-.96*	-1.6C	555															

4. BINARY/FLIP-FLOPS

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC '1'
(4) LOGIC '0' (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE	LOGIC LEVEL		MAX. OPER. FREQ. (Hz)	FAN IN/OUT		POWER SUPPLY		PROP. DELAY (S)	MAXIMUM RISE/FALL TIME (S)		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS		
					3 MIN. '1' (V)	4 MAX. '0' (V)		IN	OUT MAX	NEG (V)	POS. (V)		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE	
1#	HD74ALS112		TTL	2	2.0	0.8		5	20	0	5	15n					2	B02-257	DL16bc		
2#	HD74ALS112P		TTL	2	2.0	0.8		5	20	0	5	15n					2	B02-257	DL16bc		
3#	HD74ALS113		TTL	2	2.0	0.8		4	5	0	5	15n					2	B02-303	DL14cz		
4#	HD74ALS113P		TTL	2	2.0	0.8		4	5	0	5	15n					2	B02-303	DL14cz		
5#	HD74ALS114		TTL	2	2.0	0.8		5	5	0	5	15n					2	B02-304	DL14cz		
6#	HD74ALS114P		TTL	2	2.0	0.8		5	5	0	5	15n					2	B02-304	DL14cz		
7#	HD74ALS175		TTL	2	2.0	0.8		6	6	0	5	15n					2	B08-149	DL16bc		
8#	HD74ALS175P		TTL	2	2.0	0.8		6	6	0	5	15n					2	B08-149	DL16bc		
9	MM483		TTL	2	-8.0*	-1.0C	2.0MT†	5	10	10	0	500n					5	C	4	B03-8w	TO100
10	MM583		TTL	2	-8.0*	-1.0C	2.0MT†	5	10	10	0	500n					0	7	1	B03-8w	TO100
11	9000DM		TTL	2	1.7*	.90	20MT†	8		0.0	5.0	12n					5	C	1		DL14ad
12	9000FM		TTL	2	1.7*	.90	20MT†	8		0.0	5.0	12n					5	C	1		FP28b
13	9001DM		TTL	2	1.7*	.90	50MT†	8		0.0	5.0	12n					5	C	1	74-105N	DL14ad
14	9001FM		TTL	2	1.7*	.90	50MT†	8		0.0	5.0	12n					5	C	1	54-104W	FP28b
15	9020DM		TTL	2	1.7*	.90	50MT†	4		0.0	5.0	12n					5	C	2	B02-187	DL16t
16	9020FM		TTL	2	1.7*	.90	50MT†	4		0.0	5.0	12n					5	C	2	B02-187	FP47a
17	9022DM		TTL	2	1.7*	.90	50MT†	5		0.0	5.0	12n					5	C	2	B02-187	DL16t
18	9022FM		TTL	2	1.7*	.90	50MT†	4		0.0	5.0	12n					5	C	2	B02-187	FP47a
19	9024DM		TTL	2	1.7*	.90	25MT†			0.0	5.0	25n		140m	400m		5	C	1	74-109N	DL16t
20	9024FM		TTL	2	1.7*	.90	25MT†			0.0	5.0	25n		140m	400m		5	C	1	54-109W	FP47a
21	9000DC		TTL	2	1.8*	.85	20MT†	8		0.0	5.0	12n					0	7	1		DL14ad
22	9001DC		TTL	2	1.8*	.85	50MT†	8		0.0	5.0	12n					0	7	2	B02-187	DL16t
23	9020DC		TTL	2	1.8*	.85	50MT†	5		0.0	5.0	12n					0	7	1	B02-187	DL16t
24	9022DC		TTL	2	1.8*	.85	50MT†	4		0.0	5.0	12n					0	7	2	B02-187	DL16t
25	9024DC		TTL	2	1.8*	.85	25MT†			0.0	5.0	25n		140m	400m		0	7	1	74-109N	DL16t
26	SN2900J		TTL	2	1.8*	.85	15MS	9		0.0	5.0	35n		140m	140m		0	7	1	74-104N	DL14af
27	SN2900N		TTL	2	1.8*	.85	15MS	9		0.0	5.0	35n		140m	140m		0	7	1	74-109N	DL14r
28	SN2900J		TTL	2	1.8*	.85	30MS	9		0.0	5.0	35n			165m		0	7	1		DL14af
29	SN2900N		TTL	2	1.8*	.85	30MS	9		0.0	5.0	35n			165m		0	7	1		DL14r
30	SN2902J		TTL	2	1.8*	.85	25MS	4		0.0	5.0	35n			140m		0	7	2	74-109N	DL14af
31	SN2902N		TTL	2	1.8*	.85	25MS	4		0.0	5.0	35n			140m		0	7	2	74-109N	DL14r
32	JANM38510/02102BAA		TTL	2	2.0*	.60	2.5MS*	9	10	0.0	5.5	250n			11m		5	C	1	54L71T	FP115
33	JANM38510/02102BAC		TTL	2	2.0*	.60	2.5MS*	9	10	0.0	5.5	250n			11m		5	C	1	54L71T	FP115
34	JANM38510/02102BCA		TTL	2	2.0*	.60	2.5MS*	9	10	0.0	5.5	250n			11m		5	C	1	74L71N	DL14bo
35	JANM38510/02102BCB		TTL	2	2.0*	.60	2.5MS*	9	10	0.0	5.5	250n			11m		5	C	1	74L71N	DL14bo
36	JANM38510/02102BDA		TTL	2	2.0*	.60	2.5MS*	9	10	0.0	5.5	250n			11m		5	C	1	54L71T	FP116
37	JANM38510/02102BDB		TTL	2	2.0*	.60	2.5MS*	9	10	0.0	5.5	250n			11m		5	C	1	54L71T	FP116
38	JANM38510/02102CAA		TTL	2	2.0*	.60	2.5MS*	9	10	0.0	5.5	250n			11m		5	C	1	54L71T	FP115
39	JANM38510/02102CAC		TTL	2	2.0*	.60	2.5MS*	9	10	0.0	5.5	250n			11m		5	C	1	54L71T	FP115
40	JANM38510/02102CCA		TTL	2	2.0*	.60	2.5MS*	9	10	0.0	5.5	250n			11m		5	C	1	74L71N	DL14bo
41	JANM38510/02102CCB		TTL	2	2.0*	.60	2.5MS*	9	10	0.0	5.5	250n			11m		5	C	1	74L71N	DL14bo
42	JANM38510/02102CDA		TTL	2	2.0*	.60	2.5MS*	9	10	0.0	5.5	250n			11m		5	C	1	54L71T	FP116
43	JANM38510/02102CDB		TTL	2	2.0*	.60	2.5MS*	9	10	0.0	5.5	250n			11m		5	C	1	54L71T	FP116
44	JANM38510/02103BAA		TTL	2	2.0*	.60	2.5MS*	4	10	0.0	5.5	250n			22m		5	C	2	54-73W	FP115
45	JANM38510/02103BAC		TTL	2	2.0*	.60	2.5MS*	4	10	0.0	5.5	250n			22m		5	C	2	54-73W	FP115
46	JANM38510/02103BCA		TTL	2	2.0*	.60	2.5MS*	4	10	0.0	5.5	250n			22m		5	C	2	74-73N	DL14bo
47	JANM38510/02103BCB		TTL	2	2.0*	.60	2.5MS*	4	10	0.0	5.5	250n			22m		5	C	2	74-73N	DL14bo
48	JANM38510/02103BDA		TTL	2	2.0*	.60	2.5MS*	4	10	0.0	5.5	250n			22m		5	C	2	74-73N	DL14bo
49	JANM38510/02103BDB		TTL	2	2.0*	.60	2.5MS*	4	10	0.0	5.5	250n			22m		5	C	2	74-73N	DL14bo
50	JANM38510/02103CAA		TTL	2	2.0*	.60	2.5MS*	4	10	0.0	5.5	250n			22m		5	C	2	54-73W	FP115
51	JANM38510/02103CAC		TTL	2	2.0*	.60	2.5MS*	4	10	0.0	5.5	250n			22m		5	C	2	54-73W	FP115
52	JANM38510/02103CCA		TTL	2	2.0*	.60	2.5MS*	4	10	0.0	5.5	250n			22m		5	C	2	74-73N	DL14bo
53	JANM38510/02103CCB		TTL	2	2.0*	.60	2.5MS*	4	10	0.0	5.5	250n			22m		5	C	2	74-73N	DL14bo
54	JANM38510/02103CDA		TTL	2	2.0*	.60	2.5MS*	4	10	0.0	5.5	250n			22m		5	C	2	54-73W	FP116
55	JANM38510/02103CDB		TTL	2	2.0*	.60	2.5MS*	4	10	0.0	5.5	250n			22m		5	C	2	54-73W	FP116
56	54LS76DM		TTL	2	2.0*	.70	2.5MS*	4	10	0.0	5.5	250n			22m	300m*	5	C	2	54-73W	FP116
57	54LS76FM		TTL	2	2.0*	.70	30MS*	5	11d	0.0	5.0	24n			40m*	300m*	5	C	2	74LS76N	DL16cj
58	54LS78DM		TTL	2	2.0*	.70	30MS*	5	11d	0.0	5.0	24n			40m*	300m*	5	C	2	54LS76W	FP103
59	54LS78FM		TTL	2	2.0*	.70	30MS*	5	11d	0.0	5.0	24n			40m*	300m*	5	C	2	74L78N	TO116
60	54LS107DM		TTL	2	2.0*	.70	30MS*	4		0.0	5.0						5	C	2	54L78T	FP21h
61	54LS107FM		TTL	2	2.0*	.70	30MS*	4		0.0	5.0						5	C	2	74-107N	TO116
62	54LS109DM		TTL	2	2.0*	.70	45MS†	4	5	0.0	5.0	26n					5	C	2	54-107F	FP21h
63	54LS109FM		TTL	2	2.0*	.70	45MS†	4	5	0.0	5.0	26n					5	C	2	74-109N	TO116
64	54LS112DM		TTL	2	2.0*	.70	45MS†	4	5	0.0	5.0	16n					5	C	2	54-109W	TO8e
65	54LS112FM		TTL	2	2.0*	.70	45MS†	4	5	0.0	5.0	16n					5	C	2	74LS12N	TO116
66	54LS113FM		TTL	2	2.0*	.70	45MS†	3	5	0.0	5.0	16n					5	C	2	54S112W	TO8e
67	54LS114FM		TTL	2	2.0*	.70	45MS†	4	5	0.0	5.0	16n					5	C	2	54S113W	TO8e
68	DM54L72J		TTL	2	2.0*	.70	11MT†	9	20	0.0	5.0	150n			40m*	300m	5	C	1	54S114W	TO8e
69	DM54L73J		TTL	2	2.0*	.70	11MT†	4	20	0.0	5.0	150n			5.0m†	10m†	5	C	1	74L71N	DL14ax
70	DM54L78J		TTL	2	2.0*	.70	11MT†	8	10	0.0	5.0	150n			5.0m†	10m†	5	C	2	74-73N	DL14ax
71	DM74L72N		TTL	2	2.0*	.70	11MT†	9	20	0.0	5.0	150n			5.0m†	10m†	0	7	1	74L78N	DL14ax
72	DM74L73J		TTL	2	2.0*	.70	11MT†	4	20	0.0	5.0	150n			5.0m†	10m†	0	7	2	74L71N	DL14bt
73	DM74L73N		TTL	2	2.0*	.70	11MT†	4	20	0.0	5.0	150n			5.0m†	10m†	0	7	2	74-73N	DL14ax
74	DM74L78N		TTL	2	2.0*	.70	11MT†	8	10	0.0	5.0	150n			5.0m†	10m†	0	7	2	74L78N	DL14bt
75	JANM38510/02101CCA		TTL	2	2.0*	.70	2.5MS*	9	10	0.0	5.5	250n			11m		5	C	1	74L71N	DL14bo
76	JANM38510/02104BAA		TTL	2																	

4. BINARY/FLIP-FLOPS

IN ORDER OF:(1)TECHNOLOGY(2)TYPE(3)LOGIC*1
(4)LOGIC*(5)TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE	LOGIC LEVEL		MAX. OPER. FREQ. (Hz)	FAN		POWER SUPPLY SPAN NEG. POS. (V) (V)	PROP. DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE - +	CKTS PER MOD	DRAWINGS			
					3 MIN. '1' (V)	4 MAX. '0' (V)		IN	OUT MAX			RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE		
1	JANM38510/02104BDB		ITTL	2	2.0 *	.70	2.5M\$*	8	10	0.0	5.5	250n			22m		5	C	2	54L78T	FP116
2	JANM38510/02104CAA		ITTL	2	2.0 *	.70	2.5M\$*	8	10	0.0	5.5	250n			22m		5	C	2	54L78T	FP115
3	JANM38510/02104CAC		ITTL	2	2.0 *	.70	2.5M\$*	8	10	0.0	5.5	250n			22m		5	C	2		FP115
4	JANM38510/02104CCA		ITTL	2	2.0 *	.70	2.5M\$*	8	10	0.0	5.5	250n			22m		5	C	2	74L78N	DL14bo
5	JANM38510/02104CCB		ITTL	2	2.0 *	.70	2.5M\$*	8	10	0.0	5.5	250n			22m		5	C	2	74L78N	DL14bo
6	JANM38510/02104CDA		ITTL	2	2.0 *	.70	2.5M\$*	8	10	0.0	5.5	250n			22m		5	C	2	54L78T	FP116
7	JANM38510/02104CDB		ITTL	2	2.0 *	.70	2.5M\$*	8	10	0.0	5.5	250n			22m		5	C	2	54L78T	FP116
8	JANM38510/30101BCA		ITTL	2	2.0 *	.70	25M\$*	4	11d	0.0	5.5	42n			50m	300m*	5	C	2	74-73N	DL14bo
9	JANM38510/30101BCB		ITTL	2	2.0 *	.70	25M\$*	4	11d	0.0	5.5	42n			50m	300m*	5	C	2	74-73N	DL14bo
10	JANM38510/30101BDA		ITTL	2	2.0 *	.70	25M\$*	4	11d	0.0	5.5	42n			50m	300m*	5	C	2	54-73W	FP116
11	JANM38510/30101CCA		ITTL	2	2.0 *	.70	25M\$*	4	11d	0.0	5.5	42n			50m	300m*	5	C	2	74-73N	DL14bo
12	JANM38510/30101CCB		ITTL	2	2.0 *	.70	25M\$*	4	11d	0.0	5.5	42n			50m	300m*	5	C	2	74-73N	DL14bo
13	JANM38510/30101CDA		ITTL	2	2.0 *	.70	25M\$*	4	11d	0.0	5.5	42n			50m	300m*	5	C	2	54-73W	FP116
14	JANM38510/30103BEA		ITTL	2	2.0 *	.70	25M\$*	5	11d	0.0	5.5	42n			50m	300m*	5	C	2	74LS112N	DL16br
15	JANM38510/30103BEB		ITTL	2	2.0 *	.70	25M\$*	5	11d	0.0	5.5	42n			50m	300m*	5	C	2	74LS112N	DL16br
16	JANM38510/30103BFA		ITTL	2	2.0 *	.70	25M\$*	5	11d	0.0	5.5	42n			50m	300m*	5	C	2	54S112W	FP117
17	JANM38510/30103BFB		ITTL	2	2.0 *	.70	25M\$*	5	11d	0.0	5.5	42n			50m	300m*	5	C	2	54S112W	FP117
18	JANM38510/30103CEA		ITTL	2	2.0 *	.70	25M\$*	5	11d	0.0	5.5	42n			50m	300m*	5	C	2	74LS112N	DL16br
19	JANM38510/30103CEB		ITTL	2	2.0 *	.70	25M\$*	5	11d	0.0	5.5	42n			50m	300m*	5	C	2	74LS112N	DL16br
20	JANM38510/30103CFA		ITTL	2	2.0 *	.70	25M\$*	5	11d	0.0	5.5	42n			50m	300m*	5	C	2	54S112W	FP117
21	JANM38510/30104BAB		ITTL	2	2.0 *	.70	25M\$*	4	11d	0.0	5.5	42n			50m	300m*	5	C	2	54S113W	FP115
22	JANM38510/30104BAC		ITTL	2	2.0 *	.70	25M\$*	4	11d	0.0	5.5	42n			50m	300m*	5	C	2	54S113W	FP115
23	JANM38510/30104BCA		ITTL	2	2.0 *	.70	25M\$*	4	11d	0.0	5.5	42n			50m	300m*	5	C	2	74LS113N	DL14bo
24	JANM38510/30104BCB		ITTL	2	2.0 *	.70	25M\$*	4	11d	0.0	5.5	42n			50m	300m*	5	C	2	74LS113N	DL14bo
25	JANM38510/30104BDA		ITTL	2	2.0 *	.70	25M\$*	4	11d	0.0	5.5	42n			50m	300m*	5	C	2	54S113W	FP116
26	JANM38510/30104BDB		ITTL	2	2.0 *	.70	25M\$*	4	11d	0.0	5.5	42n			50m	300m*	5	C	2	54S113W	FP116
27	JANM38510/30104CAB		ITTL	2	2.0 *	.70	25M\$*	4	11d	0.0	5.5	42n			50m	300m*	5	C	2	54S113W	FP115
28	JANM38510/30104CAC		ITTL	2	2.0 *	.70	25M\$*	4	11d	0.0	5.5	42n			50m	300m*	5	C	2	54S113W	FP115
29	JANM38510/30104CCA		ITTL	2	2.0 *	.70	25M\$*	4	11d	0.0	5.5	42n			50m	300m*	5	C	2	74LS113N	DL14bo
30	JANM38510/30104CCB		ITTL	2	2.0 *	.70	25M\$*	4	11d	0.0	5.5	42n			50m	300m*	5	C	2	74LS113N	DL14bo
31	JANM38510/30104CDA		ITTL	2	2.0 *	.70	25M\$*	4	11d	0.0	5.5	42n			50m	300m*	5	C	2	54S113W	FP116
32	JANM38510/30105BCA		ITTL	2	2.0 *	.70	25M\$*	5	11d	0.0	5.5	42n			50m	300m*	5	C	2	74LS114N	DL14bo
33	JANM38510/30105BCB		ITTL	2	2.0 *	.70	25M\$*	5	11d	0.0	5.5	42n			50m	300m*	5	C	2	74LS114N	DL14bo
34	JANM38510/30105BDA		ITTL	2	2.0 *	.70	25M\$*	5	11d	0.0	5.5	42n			50m	300m*	5	C	2	54S114W	FP116
35	JANM38510/30105CCA		ITTL	2	2.0 *	.70	25M\$*	5	11d	0.0	5.5	42n			50m	300m*	5	C	2	74LS114N	DL14bo
36	JANM38510/30105CCB		ITTL	2	2.0 *	.70	25M\$*	5	11d	0.0	5.5	42n			50m	300m*	5	C	2	74LS114N	DL14bo
37	JANM38510/30105CDA		ITTL	2	2.0 *	.70	25M\$*	5	11d	0.0	5.5	42n			50m	300m*	5	C	2	54S114W	FP116
38	JANM38510/30108BCA		ITTL	2	2.0 *	.70	25M\$*	4	11d	0.0	5.5	42n			50m	300m*	5	C	2	74-107N	DL14bo
39	JANM38510/30108BCB		ITTL	2	2.0 *	.70	25M\$*	4	11d	0.0	5.5	42n			50m	300m*	5	C	2	74-107N	DL14bo
40	JANM38510/30108BDA		ITTL	2	2.0 *	.70	25M\$*	4	11d	0.0	5.5	42n			50m	300m*	5	C	2	54-107F	FP116
41	JANM38510/30108BDB		ITTL	2	2.0 *	.70	25M\$*	4	11d	0.0	5.5	42n			50m	300m*	5	C	2	54-107F	FP116
42	JANM38510/30108CCA		ITTL	2	2.0 *	.70	25M\$*	4	11d	0.0	5.5	42n			50m	300m*	5	C	2	74-107N	DL14bo
43	JANM38510/30108CCB		ITTL	2	2.0 *	.70	25M\$*	4	11d	0.0	5.5	42n			50m	300m*	5	C	2	74-107N	DL14bo
44	JANM38510/30108CDA		ITTL	2	2.0 *	.70	25M\$*	4	11d	0.0	5.5	42n			50m	300m*	5	C	2	54-107F	FP116
45	JANM38510/30109BEA		ITTL	2	2.0 *	.70	20M\$*	5	11d	0.0	5.5	59n			50m	300m*	5	C	2	74-109N	DL16br
46	JANM38510/30109BEB		ITTL	2	2.0 *	.70	20M\$*	5	11d	0.0	5.5	59n			50m	300m*	5	C	2	74-109N	DL16br
47	JANM38510/30109BFA		ITTL	2	2.0 *	.70	20M\$*	5	11d	0.0	5.5	59n			50m	300m*	5	C	2	54-109W	FP117
48	JANM38510/30109BFB		ITTL	2	2.0 *	.70	20M\$*	5	11d	0.0	5.5	59n			50m	300m*	5	C	2	54-109W	FP117
49	JANM38510/30109CEA		ITTL	2	2.0 *	.70	20M\$*	5	11d	0.0	5.5	59n			50m	300m*	5	C	2	74-109N	DL16br
50	JANM38510/30109CEB		ITTL	2	2.0 *	.70	20M\$*	5	11d	0.0	5.5	59n			50m	300m*	5	C	2		DL16br
51	JANM38510/30109CFA		ITTL	2	2.0 *	.70	20M\$*	5	11d	0.0	5.5	59n			50m	300m*	5	C	2	54-109W	FP117
52	JANM38510/30110BEA		ITTL	2	2.0 *	.70	25M\$*	5	11d	0.0	5.5	42n			50m	300m*	5	C	2	74LS76N	DL16br
53	JANM38510/30110BEB		ITTL	2	2.0 *	.70	25M\$*	5	11d	0.0	5.5	42n			50m	300m*	5	C	2	74LS76N	DL16br
54	JANM38510/30110BFA		ITTL	2	2.0 *	.70	25M\$*	5	11d	0.0	5.5	42n			50m	300m*	5	C	2	54LS76W	FP117
55	JANM38510/30110CEA		ITTL	2	2.0 *	.70	25M\$*	5	11d	0.0	5.5	42n			50m	300m*	5	C	2	74LS76N	DL16br

4. BINARY/FLIP-FLOPS

IN ORDER OF (1)TECHNOLOGY(2)TYPE(3)LOGIC(4)LOGIC(5)TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE	LOGIC LEVEL		MAX. OPER. FREQ. (Hz)	FAN		POWER SUPPLY SPAN		PROP. DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS		
					MIN. '1' (V)	MAX. '0' (V)		IN	OUT MAX	NEG (V)	POS. (V)		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE	
1	JANM38510/30110CEB		ITTL	2	2.0 *	.70	25MS*	5	11d	0.0	5.5	42n			50m	300m*	5	C	2	74LS76N	DL16br
2	JANM38510/30110CFA		ITTL	2	2.0 *	.70	25MS*	5	11d	0.0	5.5	42n			50m	300m*	5	C	2	74LS76W	FP117 DL14bh FP39e
3	S54LS73F		ITTL	2	2.0 *	.70	30MS*	4	20	0.0	5.0	30n			40m	300m*	5	C	2	74LS76N	DL16aw
4	S54LS73W		ITTL	2	2.0 *	.70	30MS*	4	20	0.0	5.0	30n			40m	300m*	5	C	2	74LS76W	FP47g DL14bh
5	S54LS76F		ITTL	2	2.0 *	.70	30MS*	5	20	0.0	5.0	30n			40m	300m*	5	C	2	74LS112W	FP47g DL14bh
6	S54LS76W		ITTL	2	2.0 *	.70	30MS*	5	20	0.0	5.0	30n			40m	300m*	5	C	2	74LS112W	FP47g DL14bh
7	S54LS78F		ITTL	2	2.0 *	.70	30MS*	5	20	0.0	5.0	30n			40m	300m*	5	C	2	74LS113W	FP39e
8	S54LS78W		ITTL	2	2.0 *	.70	30MS*	5	20	0.0	5.0	30n			40m	300m*	5	C	2	74LS113W	FP39e
9	S54LS107F		ITTL	2	2.0 *	.70	30MS*	4	20	0.0	5.0	30n			40m	300m*	5	C	2	74LS107N	FP39e
10	S54LS107W		ITTL	2	2.0 *	.70	30MS*	4	20	0.0	5.0	30n			40m	300m*	5	C	2	74LS107N	FP39e
11	S54LS109F		ITTL	2	2.0 *	.70	25MS*	5	20	0.0	5.0	40n			40m	300m*	5	C	2	74LS109N	FP47g
12	S54LS109W		ITTL	2	2.0 *	.70	25MS*	5	20	0.0	5.0	40n			40m	300m*	5	C	2	74LS109N	FP47g
13	S54LS112F		ITTL	2	2.0 *	.70	30MS*	5	20	0.0	5.0	30n			40m	300m*	5	C	2	74LS112N	FP47g
14	S54LS112W		ITTL	2	2.0 *	.70	30MS*	5	20	0.0	5.0	30n			40m	300m*	5	C	2	74LS112N	FP47g
15	S54LS113F		ITTL	2	2.0 *	.70	30MS*	4	20	0.0	5.0	30n			40m	300m*	5	C	2	74LS113N	FP39e
16	S54LS113W		ITTL	2	2.0 *	.70	30MS*	4	20	0.0	5.0	30n			40m	300m*	5	C	2	74LS113N	FP39e
17	S54LS114F		ITTL	2	2.0 *	.70	30MS*	5	20	0.0	5.0	30n			40m	300m*	5	C	2	74LS114N	FP39e
18	S54LS114W		ITTL	2	2.0 *	.70	30MS*	5	20	0.0	5.0	30n			40m	300m*	5	C	2	74LS114N	FP39e
19#	SFC472LE		ITTL	2	2.0 *	.70	3.0MT\$	9	10	0.0	5.0	200n				1.0 †	0	7	1	74L71N	TO116
20#	SFC472LEM		ITTL	2	2.0 *	.70	3.0MT\$	9	10	0.0	5.0	200n				1.0 †	0	7	1	74L71N	TO116
21#	SFC473LE		ITTL	2	2.0 *	.70	3.0MT\$	4	10	0.0	5.0	200n				1.0 †	0	7	1	74L73N	TO116
22#	SFC473LEM		ITTL	2	2.0 *	.70	3.0MT\$	4	10	0.0	5.0	200n				1.0 †	0	7	1	74L73N	TO116
23	SN54LS73AJ		ITTL	2	2.0 *	.70	30M\$	3	10d	0.0	5.0	20n			30m	300m*	5	C	2	74-73N	DL14ci
24	SN54LS73AW		ITTL	2	2.0 *	.70	30M\$	3	10d	0.0	5.0	20n			30m	300m*	5	C	2	74-73W	MO004AA
25	SN54LS76AJ		ITTL	2	2.0 *	.70	45M\$	5	11d	0.0	5.0	20n			30m†	300m*	5	C	2	74LS76N	DL16v
26	SN54LS76AW		ITTL	2	2.0 *	.70	45M\$	5	11d	0.0	5.0	20n			30m†	300m*	5	C	2	74LS76W	MO004AG
27	SN54LS78AJ		ITTL	2	2.0 *	.70	45M\$	5	11d	0.0	5.0	20n			30m†	300m*	5	C	2	74L78N	TO116
28	SN54LS78AW		ITTL	2	2.0 *	.70	45M\$	5	11d	0.0	5.0	20n			30m†	300m*	5	C	2	74L78T	MO004AA
29	SN54LS107AJ		ITTL	2	2.0 *	.70	45M\$	5	11d	0.0	5.0	20n			30m†	300m*	5	C	2	74-107	TO116
30	SN54LS107AW		ITTL	2	2.0 *	.70	45M\$	5	11d	0.0	5.0	20n			30m†	300m*	5	C	2	74-107F	MO004AA
31	SN54LS109AJ		ITTL	2	2.0 *	.70	25M\$	5	11	0.0	5.0	40n			40m	300m*	5	C	2	74-109N	DL16v
32	SN54LS109AW		ITTL	2	2.0 *	.70	25M\$	5	11	0.0	5.0	40n			40m	300m*	5	C	2	74-109W	MO004AG
33	SN54LS112AJ		ITTL	2	2.0 *	.70	45M\$	5	11d	0.0	5.0	20n			30m†	300m*	5	C	2	74LS112N	DL16v
34	SN54LS112AW		ITTL	2	2.0 *	.70	45M\$	5	11d	0.0	5.0	20n			30m†	300m*	5	C	2	74LS112W	MO004AG
35	SN54LS113AJ		ITTL	2	2.0 *	.70	45M\$	4	11d	0.0	5.0	20n			30m†	300m*	5	C	2	74LS113N	TO116
36	SN54LS113AW		ITTL	2	2.0 *	.70	45M\$	4	11d	0.0	5.0	20n			30m†	300m*	5	C	2	74LS113W	MO004AA
37	SN54LS114AJ		ITTL	2	2.0 *	.70	45M\$	5	11d	0.0	5.0	20n			30m†	300m*	5	C	2	74LS114N	TO116
38	SN54LS114AW		ITTL	2	2.0 *	.70	45M\$	5	11d	0.0	5.0	20n			30m†	300m*	5	C	2	74LS114W	MO004AA
39#	T54LS109D2		ITTL	2	2.0 *	.70		4	11d	0.0	5.0	26n			40m†	300m	5	C	2	74-109N	DL16ak
40#	T54LS112D2		ITTL	2	2.0 *	.70		4	11d	0.0	5.0	16n			40m†	300m	5	C	2	74LS112N	DL16ak
41#	T54LS113D2		ITTL	2	2.0 *	.70	45M\$†	3	.5	0.0	5.0	16u			40m†	300m	5	C	2	74LS113N	DL14av
42#	T54LS114D2		ITTL	2	2.0 *	.80	45M\$†	3	.5	0.0	5.0	16u			40m†	300m	5	C	2	74LS114N	DL14av
43	6N132		ITTL	2	2.0 *	.80		3		0.0	5.0	40n								74-73W	TOB4
44	54F109DM		ITTL	2	2.0 *	.80	125M†	10	20	0.0	5.0	5.2n	2.0nΔ	3.0n				200	2	74-109	DL16ad
45	54F109FM		ITTL	2	2.0 *	.80	125M†	10	20	0.0	5.0	5.2n	2.0nΔ	3.0n				2	74-109	FP101	
46	54H71FM		ITTL	2	2.0 *	.80	30M\$†	9	20	0.0	5.0	27n			150m	400m*	5	C	2	54H71W	FP21h
47	54H72DM		ITTL	2	2.0 *	.80	30M\$†	9	20	0.0	5.0	27n			125m	400m*	5	C	2	74L71N	TO116
48	54H72FM		ITTL	2	2.0 *	.80	30M\$†	9	20	0.0	5.0	27n			125m	400m*	5	C	2	54L71T	FP21h
49	54H73DM		ITTL	2	2.0 *	.80	30M\$†	4	20	0.0	5.0	19n			125m	400m*	5	C	2	74-73N	TO116
50	54H73FM		ITTL	2	2.0 *	.80	30M\$†	4	20	0.0	5.0	19n			125m	400m*	5	C	2	74-73W	FP21h
51	54H78FM		ITTL	2	2.0 *	.80	30M\$†	5	20	0.0	5.0	27n			125m	400m*	5	C	2	54LS76W	FP52
52	54H78FM		ITTL	2	2.0 *	.80	30M\$†	5	20	0.0	5.0	27n			184m†	400m*	5	C	2	54H78W	FP21h
53	54H101FM		ITTL	2	2.0 *	.80	50M†	9	10	0.0	5.0	35n			100m†	400m*	5	C	2	54H79W	FP21h
54	54H102FM		ITTL	2	2.0 *	.80	50M†	9	10	0.0	5.0	35n			100m†	400m*	5	C	2	54H71T	FP21h
55	54H103DM		ITTL	2	2.0 *	.80	50M†	5	10	0.0	5.0	35n			200m†	400m*	5	C	2	74H103	TO116
56	54H103FM		ITTL	2	2.0 *	.80	50M†	5	10	0.0	5.0	35n			200m†	400m*	5	C	2	54H103	FP21h
57	54H106DM		ITTL	2	2.0 *	.80	50M†	5	10	0.0	5.0	35n			200m†	400m*	5	C	2	74LS76N	DL16cj
58	54H106FM		ITTL	2	2.0 *	.80	50M†	5	10	0.0	5.0	35n			200m†	400m*	5	C	2	54LS76W	FP52
59	54H108DM		ITTL	2	2.0 *	.80	50M†	9	10	0.0	5.0	35n			200m†	400m*	5	C	2	74H78N	TO116
60	54H108FM		ITTL	2	2.0 *	.80	50M†	9	10	0.0	5.0	35n			200m†	400m*	5	C	2	54H78W	FP21h
61	54S109DM		ITTL	2	2.0 *	.80	75M\$*	5	10b	0.0	5.0	12n			250m%	300m*	5	C	2	74-109N	DL16ci
62	54S109FM		ITTL	2	2.0 *	.80	75M\$*	4	5	0.0	5.0	26n			40m%	300m	5	C	2	54-109	DL14bf
63	54S112DM		ITTL	2	2.0 *	.80	125M†	5	20	0.0	5.0	5.0n									

4. BINARY/FLIP-FLOPS

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC*
(4) LOGIC* (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE	LOGIC LEVEL		MAX. OPER. FREQ. (Hz)	FAN		POWER SUPPLY SPAN (V)	PROP. DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE (°C)	CKTS PER MOD	DRAWINGS		
					MIN. (V)	MAX. (V)		IN	OUT			RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE	
					3	4														
1	DM5473W		TTL	2	2.0 *	.80	25MT†	4	10	0.0	5.0	45n		90m†	1.0 †	5	C	2	54-73W	FP97a
2	DM5476J		TTL	2	2.0 *	.80	25MT†	4	10	0.0	5.0	45n		90m†	1.0 †	5	C	2	74LS76N	DL16ai
3	DM5476W		TTL	2	2.0 *	.80	25MT†	4	10	0.0	5.0	45n		90m†	1.0 †	5	C	2	54LS76W	FP88a
4	DM7473N		TTL	2	2.0 *	.80	25MT†	4	10	0.0	5.0	45n		90m†	1.0 †	0	7	2	74-73N	DL14bt
5	DM7476N		TTL	2	2.0 *	.80	25MT†	4	10	0.0	5.0	45n		90m†	1.0 †	0	7	2	74LS76N	DL16bu
6	DM54107J		TTL	2	2.0 *	.80	25MT†	4	10	0.0	5.0	45n		90m†	1.0 †	0	7	2	74LS76N	DL16ai
7	DM74107J		TTL	2	2.0 *	.80	25MT†	4	10	0.0	5.0	45n		90m†	1.0 †	0	7	2	74-107N	DL16ai
8	DM74107N		TTL	2	2.0 *	.80	25MT†	4	10	0.0	5.0	45n		90m†	1.0 †	0	7	2	74-107N	DL16bu
9#	FJJ111-7472		TTL	2	2.0 *	.80	10M	9	10	0.0	5.0	40n		40m†	1.0 †	0	7	1	74L71N	DL14s
10#	FJJ121-7473		TTL	2	2.0 *	.80	10M	4	10	0.0	5.0	40n		80m†	1.0 †	0	7	2	74-73N	DL14s
11#	FJJ191-7476		TTL	2	2.0 *	.80	15M	5	10	0.0	5.0	40n		80m†	1.0 †	0	7	2	74LS76N	DL16f
12#	FJJ261-74107		TTL	2	2.0 *	.80	10M	4	10	0.0	5.0	40n		80m†	1.0 †	0	7	2	74-107N	DL14s
13#	HD74LS73		TTL	2	2.0 *	.80	30M			0.0	5.0	13n		400m	300m	2	7	2		DL14cz
14#	HD74LS73P		TTL	2	2.0 *	.80	30M			0.0	5.0	13n		400m	300m	2	7	2		DL14cz
15#	HD74LS76		TTL	2	2.0 *	.80	30M			0.0	5.0	25n		400m	300m	2	7	2		DL16bc
16#	HD74LS76P		TTL	2	2.0 *	.80	30M			0.0	5.0	25n		400m	300m	2	7	2		DL16bc
17#	HD74LS78		TTL	2	2.0 *	.80	30M	8		0.0	5.0	25n	20n#	400m	300m	2	7	2		DL14cz
18#	HD74LS78P		TTL	2	2.0 *	.80	30M	8		0.0	5.0	25n	20n#	400m	300m	2	7	2		DL14cz
19#	HD74LS107		TTL	2	2.0 *	.80	30M	8		0.0	5.0	25n	20n#	400m	300m	2	7	2	B02-326	DL14cz
20#	HD74LS107P		TTL	2	2.0 *	.80	30M	8		0.0	5.0	25n	20n#	400m	300m	2	7	2	B02-326	DL14cz
21#	HD74LS109A		TTL	2	2.0 *	.80	25M	8		0.0	5.0	19n	25n#	400m	300m	2	7	2		DL16bc
22#	HD74LS109AP		TTL	2	2.0 *	.80	25M	8	0	5.0		19n	25n#	400m	300m	2	7	2		DL16bc
23#	HD74LS112		TTL	2	2.0 *	.80	30M	10	0	5.0		13n	20n#	400m	300m	2	7	2		DL16bc
24#	HD74LS112P		TTL	2	2.0 *	.80	30M	10	0	5.0		13n	20n#	400m	300m	2	7	2		DL16bc
25#	HD74LS113		TTL	2	2.0 *	.80	30M	8	0	5.0		13n	20n#	400m	300m	2	7	2	B02-327	DL14cz
26#	HD74LS113P		TTL	2	2.0 *	.80	30M	8	0	5.0		13n	20n#	400m	300m	2	7	2	B02-327	DL14cz
27#	HD74LS114		TTL	2	2.0 *	.80	30M	8	0	5.0		13n	20n#	400m	300m	2	7	2		DL14cz
28#	HD74LS114P		TTL	2	2.0 *	.80	25M	8	0	5.0		13n	20n#	400m	300m	2	7	2		DL14cz
29#	M74LS73AP		TTL	2	2.0 *	.80	45M†	4	20	0.0	5.0	24n	18n#	20m†	400m*	2	7	2	74-73N	DL14cf
30#	M74LS74AP		TTL	2	2.0 *	.80	25M†	4	22d	0.0	5.0	40n	18n#	40m†	400m*	2	7	2	74-74	DL14cf
31#	M74LS76AP		TTL	2	2.0 *	.80	45M†	5	20	0.0	5.0	24n	18n#	20m†	400m*	2	7	2	74LS76N	DL14cf
32#	M74LS107AP		TTL	2	2.0 *	.80	45M†	4	20	0.0	5.0	24n	18n#	20m†	400m*	2	7	2	74-107N	DL14cf
33#	M74LS112AP		TTL	2	2.0 *	.80	45M†	5	20	0.0	5.0	24n	18n#	20m†	400m*	2	7	2	74LS112N	DL14cf
34#	M74LS113AP		TTL	2	2.0 *	.80	45M†	4	20	0.0	5.0	24n	18n#	20m†	400m*	2	7	2	74LS113N	DL14cf
35#	M74LS114AP		TTL	2	2.0 *	.80	45M†	5	20	0.0	5.0	24n	18n#	20m†	400m*	2	7	2	74LS114N	DL14cf
36	JANM38510/00201BAA		TTL	2	2.0 *	.80	10M**	9	10	0.0	5.5	50n		110m		5	C	1	54L71T	FP115
37	JANM38510/00201BAC		TTL	2	2.0 *	.80	10M**	9	10	0.0	5.5	50n		110m		5	C	1	54L71T	FP115
38	JANM38510/00201BCA		TTL	2	2.0 *	.80	10M**	9	10	0.0	5.5	50n		110m		5	C	1	74L71N	DL14bo
39	JANM38510/00201BCB		TTL	2	2.0 *	.80	10M**	9	10	0.0	5.5	50n		110m		5	C	1	74L71N	DL14bo
40	JANM38510/00201BDA		TTL	2	2.0 *	.80	10M**	9	10	0.0	5.5	50n		110m		5	C	1	74L71N	DL14bo
41	JANM38510/00201BDB		TTL	2	2.0 *	.80	10M**	9	10	0.0	5.5	50n		110m		5	C	1	54L71T	FP116
42	JANM38510/00201CAA		TTL	2	2.0 *	.80	10M**	9	10	0.0	5.5	50n		110m		5	C	1	54L71T	FP116
43	JANM38510/00201CAC		TTL	2	2.0 *	.80	10M**	9	10	0.0	5.5	50n		110m		5	C	1	54L71T	FP115
44	JANM38510/00201CCA		TTL	2	2.0 *	.80	10M**	9	10	0.0	5.5	50n		110m		5	C	1	54L71T	FP115
45	JANM38510/00201CCB		TTL	2	2.0 *	.80	10M**	9	10	0.0	5.5	50n		110m		5	C	1	74L71N	DL14bo
46	JANM38510/00201CDA		TTL	2	2.0 *	.80	10M**	9	10	0.0	5.5	50n		110m		5	C	1	74L71N	DL14bo
47	JANM38510/00201CDB		TTL	2	2.0 *	.80	10M**	9	10	0.0	5.5	50n		110m		5	C	1	54L71T	FP116
48	JANM38510/00202BAA		TTL	2	2.0 *	.80	10M**	9	10	0.0	5.5	50n		110m		5	C	1	54L71T	FP116
49	JANM38510/00202BAB		TTL	2	2.0 *	.80	10M**	4	10	0.0	5.5	50n		220m		5	C	2	54-73W	FP115
50	JANM38510/00202BAC		TTL	2	2.0 *	.80	10M**	4	10	0.0	5.5	50n		220m		5	C	2	54-73W	FP115
51	JANM38510/00202BCA		TTL	2	2.0 *	.80	10M**	4	10	0.0	5.5	50n		220m		5	C	2	54-73W	FP115
52	JANM38510/00202BCB		TTL	2	2.0 *	.80	10M**	4	10	0.0	5.5	50n		220m		5	C	2	74-73N	DL14bo
53	JANM38510/00202BDA		TTL	2	2.0 *	.80	10M**	4	10	0.0	5.5	50n		220m		5	C	2	74-73N	DL14bo
54	JANM38510/00202BDB		TTL	2	2.0 *	.80	10M**	4	10	0.0	5.5	50n		220m		5	C	2	54-73W	FP116
55	JANM38510/00202CAA		TTL	2	2.0 *	.80	10M**	4	10	0.0	5.5	50n		220m		5	C	2	54-73W	FP116
56	JANM38510/00202CAB		TTL	2	2.0 *	.80	10M**	4	10	0.0	5.5	50n		220m		5	C	2	54-73W	FP115
57	JANM38510/00202CAC		TTL	2	2.0 *	.80	10M**	4	10	0.0	5.5	50n		220m		5	C	2	54-73W	FP115
58	JANM38510/00202CCA		TTL	2	2.0 *	.80	10M**	4	10	0.0	5.5	50n		220m		5	C	2	54-73W	FP115
59	JANM38510/00202CCB		TTL	2	2.0 *	.80	10M**	4	10	0.0	5.5	50n		220m		5	C	2	74-73N	DL14bo
60	JANM38510/00202CDA		TTL	2	2.0 *	.80	10M**	4	10	0.0	5.5	50n		220m		5	C	2	74-73N	DL14bo
61	JANM38510/00202CDB		TTL	2	2.0 *	.80	10M**	4	10	0.0	5.5	50n		220m		5	C	2	54-73W	FP116
62	JANM38510/00203BCA		TTL	2	2.0 *	.80	10M**	4	10	0.0	5.5	50n		220m		5	C	2	54-73W	FP116
63	JANM38510/00203BCB		TTL	2	2.0 *	.80	10M**	4	10	0.0	5.5	50n		220m		5	C	2	74-107N	DL14bo
64	JANM38510/00203CCA		TTL	2	2.0 *	.80	10M**	4	10	0.0	5.5	50n		220m		5	C	2	74-107N	DL14bo
65	JANM38510/00203CCB		TTL	2	2.0 *	.80	10M**	4	10	0.0	5.5	50n		220m		5	C	2	74-107N	DL14bo
66	JANM38510/00204BEA		TTL	2	2.0 *	.80	10M**	4	10	0.0	5.5	50n		220m		5	C	2	74-107N	DL14bo
67	JANM38510/00204BEB		TTL	2	2.0 *	.80	10M**	5	10	0.0	5.5	50n		220m		5	C	2	74LS76N	DL16o
68	JANM38510/00204BFA		TTL	2	2.0 *	.80	10M**	5	10	0.0	5.5	50n		220m		5	C	2	74LS76N	DL16o
69	JANM38510/00204BFB		TTL	2	2.0 *	.80	10M**	5	10	0.0	5.5	50n		220m		5	C	2	54LS76W	FP117
70	JANM38510/00204CEA		TTL	2	2.0 *	.80	10M**	5	10	0.0	5.5	50n		220m		5	C	2	54LS76W	FP117
71	JANM38510/00204CEB		TTL	2	2.0 *	.80	10M**	5	10	0.0	5.5	50n		220m		5	C	2	74LS76N	DL16o
72	JANM38510/00204CFA		TTL	2	2.0 *	.80	10M**	5	10	0.0	5.5	50n		220m		5	C	2	74LS76N	DL16o
			TTL	2	2.0 *	.80	10M**	5	10	0.0	5.5	50n		220m		5	C	2	54LS76W	FP117

4. BINARY/FLIP-FLOPS

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC*1
(4) LOGIC*5 (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE	LOGIC LEVEL		MAX. OPER. FREQ. (Hz)	FAN IN	FAN OUT	POWER SUPPLY SPAN		PROP. DELAY (S)	MAXIMUM RISE TIME (S)	MAXIMUM FALL TIME (S)	MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS	
					3 MIN. (V)	4 MAX. (V)				NEG (V)	POS. (V)								LOGIC OR BLOCK	OUTLINE
1	JANM38510/00204CFB		ITTL	2	2.0	*.80	10MS*	5	10	0.0	5.5	50n			220m	5	C	2	54LS76W	FP117
2	JANM38510/00206BAA		ITTL	2	2.0	*.80	15MS*	9	10	0.0	5.5	62n			110m	5	C	1	54-70W	FP115
3	JANM38510/00206BAB		ITTL	2	2.0	*.80	15MS*	9	10	0.0	5.5	62n			110m	5	C	1	54-70W	FP115
4	JANM38510/00206BCA		ITTL	2	2.0	*.80	15MS*	9	10	0.0	5.5	62n			110m	5	C	1	74-70N	DL14bo
5	JANM38510/00206BCB		ITTL	2	2.0	*.80	15MS*	9	10	0.0	5.5	62n			110m	5	C	1	74-70N	DL14bo
6	JANM38510/00206BDA		ITTL	2	2.0	*.80	15MS*	9	10	0.0	5.5	62n			110m	5	C	1	54-70W	FP80
7	JANM38510/00206CAA		ITTL	2	2.0	*.80	15MS*	9	10	0.0	5.5	62n			110m	5	C	1	54-70W	FP115
8	JANM38510/00206CAB		ITTL	2	2.0	*.80	15MS*	9	10	0.0	5.5	62n			110m	5	C	1	54-70W	FP115
9	JANM38510/00206CCA		ITTL	2	2.0	*.80	15MS*	9	10	0.0	5.5	62n			110m	5	C	1	54-70W	FP115
10	JANM38510/00206CCB		ITTL	2	2.0	*.80	15MS*	9	10	0.0	5.5	62n			110m	5	C	1	74-70N	DL14bo
11	JANM38510/00206CDA		ITTL	2	2.0	*.80	15MS*	9	10	0.0	5.5	62n			110m	5	C	1	74-70N	DL14bo
12	JANM38510/02201BAA		ITTL	2	2.0	*.80	15MS*	9	10	0.0	5.5	62n			110m	5	C	1	54-70W	FP80
13	JANM38510/02201BAB		ITTL	2	2.0	*.80	20MS*	9	10	0.0	5.5	37n	12n#		137m	5	C	1	54L71T	FP115
14	JANM38510/02201BCA		ITTL	2	2.0	*.80	20MS*	9	10	0.0	5.5	37n	12n#		137m	5	C	1	54L71T	FP115
15	JANM38510/02201BCB		ITTL	2	2.0	*.80	20MS*	9	10	0.0	5.5	37n	12n#		137m	5	C	1	74L71N	DL14bo
16	JANM38510/02201BDA		ITTL	2	2.0	*.80	20MS*	9	10	0.0	5.5	37n	12n#		137m	5	C	1	74L71N	DL14bo
17	JANM38510/02201BDB		ITTL	2	2.0	*.80	20MS*	9	10	0.0	5.5	37n	12n#		137m	5	C	1	54L71T	FP116
18	JANM38510/02201CAA		ITTL	2	2.0	*.80	10MS*	9	10	0.0	5.5	37n	12n#		137m	5	C	1	54L71T	FP116
19	JANM38510/02201CAB		ITTL	2	2.0	*.80	20MS*	9	10	0.0	5.5	37n	12n#		137m	5	C	1	54L71T	FP115
20	JANM38510/02201CCA		ITTL	2	2.0	*.80	20MS*	9	10	0.0	5.5	37n	12n#		137m	5	C	1	54L71T	FP115
21	JANM38510/02201CCB		ITTL	2	2.0	*.80	20MS*	9	10	0.0	5.5	37n	12n#		137m	5	C	1	74L71N	DL14bo
22	JANM38510/02201CDA		ITTL	2	2.0	*.80	20MS*	9	10	0.0	5.5	37n	12n#		137m	5	C	1	74L71N	DL14bo
23	JANM38510/02201CDB		ITTL	2	2.0	*.80	20MS*	9	10	0.0	5.5	37n	12n#		137m	5	C	1	54L71T	FP116
24	JANM38510/02202BAA		ITTL	2	2.0	*.80	20MS*	9	10	0.0	5.5	37n	12n#		137m	5	C	1	54L71T	FP116
25	JANM38510/02202BAB		ITTL	2	2.0	*.80	20MS*	4	10	0.0	5.5	42n	12n#		274m	5	C	2	54-73W	FP115
26	JANM38510/02202BCA		ITTL	2	2.0	*.80	20MS*	4	10	0.0	5.5	42n	12n#		274m	5	C	2	54-73W	FP115
27	JANM38510/02202BCB		ITTL	2	2.0	*.80	20MS*	4	10	0.0	5.5	42n	12n#		274m	5	C	2	74-73N	DL14bo
28	JANM38510/02202BDA		ITTL	2	2.0	*.80	20MS*	4	10	0.0	5.5	42n	12n#		274m	5	C	2	74-73N	DL14bo
29	JANM38510/02202BDB		ITTL	2	2.0	*.80	20MS*	4	10	0.0	5.5	42n	12n#		274m	5	C	2	54-73W	FP116
30	JANM38510/02202CAA		ITTL	2	2.0	*.80	20MS*	4	10	0.0	5.5	42n	12n#		274m	5	C	2	54-73W	FP116
31	JANM38510/02202CAB		ITTL	2	2.0	*.80	20MS*	4	10	0.0	5.5	42n	12n#		274m	5	C	2	54-73W	FP115
32	JANM38510/02202CCA		ITTL	2	2.0	*.80	20MS*	4	10	0.0	5.5	42n	12n#		274m	5	C	2	54-73W	FP115
33	JANM38510/02202CCB		ITTL	2	2.0	*.80	20MS*	5	10	0.0	5.5	42n	12n#		274m	5	C	2	74-73N	DL14bo
34	JANM38510/02202CDA		ITTL	2	2.0	*.80	20MS*	4	10	0.0	5.5	42n	12n#		274m	5	C	2	74-73N	DL14bo
35	JANM38510/02202CDB		ITTL	2	2.0	*.80	20MS*	4	10	0.0	5.5	42n	12n#		274m	5	C	2	54-73W	FP116
36	JANM38510/02204BEA		ITTL	2	2.0	*.80	20MS*	4	10	0.0	5.5	42n	12n#		274m	5	C	2	54-73W	FP116
37	JANM38510/02204BEB		ITTL	2	2.0	*.80	20MS*	5	10	0.0	5.5	36n	12n#		296m	5	C	2	74LS76N	DL16br
38	JANM38510/02204BFA		ITTL	2	2.0	*.80	20MS*	5	10	0.0	5.5	36n	12n#		296m	5	C	2	74LS76N	DL16br
39	JANM38510/02204BFB		ITTL	2	2.0	*.80	20MS*	5	10	0.0	5.5	36n	12n#		296m	5	C	2	54LS76W	FP117
40	JANM38510/02204CEA		ITTL	2	2.0	*.80	20MS*	5	10	0.0	5.5	36n	12n#		296m	5	C	2	54LS76W	FP117
41	JANM38510/02204CEB		ITTL	2	2.0	*.80	20MS*	5	10	0.0	5.5	36n	12n#		296m	5	C	2	74LS76N	DL16br
42	JANM38510/02204CFA		ITTL	2	2.0	*.80	20MS*	5	10	0.0	5.5	36n	12n#		296m	5	C	2	74LS76N	DL16br
43	JANM38510/02204CFB		ITTL	2	2.0	*.80	20MS*	5	10	0.0	5.5	36n	12n#		296m	5	C	2	54LS76W	FP117
44	JANM38510/02205BAA		ITTL	2	2.0	*.80	30MS*	10	10	0.0	5.5	28n	10n#		210m	5	C	1	54H71W	FP115
45	JANM38510/02205BAB		ITTL	2	2.0	*.80	30MS*	10	10	0.0	5.5	28n	10n#		210m	5	C	1	54H71W	FP115
46	JANM38510/02205BCA		ITTL	2	2.0	*.80	30MS*	10	10	0.0	5.5	28n	10n#		210m	5	C	1	74H71N	DL14bo
47	JANM38510/02205BCB		ITTL	2	2.0	*.80	30MS*	10	10	0.0	5.5	28n	10n#		210m	5	C	1	74H71N	DL14bo
48	JANM38510/02205BDA		ITTL	2	2.0	*.80	30MS*	10	10	0.0	5.5	28n	10n#		210m	5	C	1	54H71W	FP116
49	JANM38510/02205BDB		ITTL	2	2.0	*.80	30MS*	10	10	0.0	5.5	28n	10n#		210m	5	C	1	54H71W	FP116
50	JANM38510/02205CAA		ITTL	2	2.0	*.80	30MS*	10	10	0.0	5.5	28n	10n#		210m	5	C	1	54H71W	FP115
51	JANM38510/02205CAB		ITTL	2	2.0	*.80	30MS*	10	10	0.0	5.5	28n	10n#		210m	5	C	1	54H71W	FP115
52	JANM38510/02205CCA		ITTL	2	2.0	*.80	30MS*	10	10	0.0	5.5	28n	10n#		210m	5	C	1	54H71W	FP115
53	JANM38510/02205CCB		ITTL	2	2.0	*.80	30MS*	10	10	0.0	5.5	28n	10n#		210m	5	C	1	74H71N	DL14bo
54	JANM38510/02205CDA		ITTL	2	2.0	*.80	30MS*	10	10	0.0	5.5	28n	10n#		210m	5	C	1	74H71N	DL14bo
55	JANM38510/02205CDB		ITTL	2	2.0	*.80	30MS*	10	10	0.0	5.5	28n	10n#		210m	5	C	1	54H71W	FP116

4. BINARY/FLIP-FLOPS

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC*1
(4) LOGIC*0 (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE	LOGIC LEVEL			MAX. OPER. FREQ. (Hz)	FAN		POWER SUPPLY SPAN		PROP. DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS		
					3	4	MAX.		IN	OUT	NEG	POS.		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE	
					MIN. (V)	'0' (V)	(Hz)				(V)	(V)										
1	JANM38510/02206BAA		ITTL	2	2.0	*	.80	30M\$*	4	10	0.0	5.5	46n	10n#		420m	5	C	2	54H103	FP115	
2	JANM38510/02206BAB		ITTL	2	2.0	*	.80	30M\$*	4	10	0.0	5.5	46n	10n#		420m	5	C	2	54H103	FP115	
3	JANM38510/02206BCA		ITTL	2	2.0	*	.80	15M\$*	4	10	0.0	5.5	46n	10n#		420m	5	C	2	74H103	DL14bo	
4	JANM38510/02206BCB		ITTL	2	2.0	*	.80	15M\$*	4	10	0.0	5.5	46n	10n#		420m	5	C	2	74H103	DL14bo	
5	JANM38510/02206BDA		ITTL	2	2.0	*	.80	30M\$*	4	10	0.0	5.5	46n	10n#		420m	5	C	2	54H103	FP116	
6	JANM38510/02206BDB		ITTL	2	2.0	*	.80	30M\$*	4	10	0.0	5.5	46n	10n#		420m	5	C	2	54H103	FP116	
7	JANM38510/02206CAA		ITTL	2	2.0	*	.80	30M\$*	4	10	0.0	5.5	46n	10n#		420m	5	C	2	54H103	FP115	
8	JANM38510/02206CAB		ITTL	2	2.0	*	.80	30M\$*	4	10	0.0	5.5	46n	10n#		420m	5	C	2	54H103	FP115	
9	JANM38510/02206CCA		ITTL	2	2.0	*	.80	30M\$*	4	10	0.0	5.5	46n	10n#		420m	5	C	2	74H103	DL14bo	
10	JANM38510/02206CCB		ITTL	2	2.0	*	.80	30M\$*	4	10	0.0	5.5	46n	10n#		420m	5	C	2	74H103	DL14bo	
11	JANM38510/02206CDA		ITTL	2	2.0	*	.80	30M\$*	4	10	0.0	5.5	46n	10n#		420m	5	C	2	54H103	FP116	
12	JANM38510/02206CDB		ITTL	2	2.0	*	.80	30M\$*	4	10	0.0	5.5	46n	10n#		420m	5	C	2	54H103	FP116	
13#	M53273P		ITTL	2	2.0	*	.80	15M†	4	20	0.0	7.0	30n			40m†	1.0 †	0	7	2	74-73N	DL14d
14#	M53276P		ITTL	2	2.0	*	.80	15M†	5	20	0.0	7.0	30n			40m†	1.0 †	0	7	2	74LS76N	DL16u
15#	M53307P		ITTL	2	2.0	*	.80	20M†	4	20	0.0	7.0	20n			50m†	1.0 †	0	7	2	74-107	DL14d
16#	MB74LS73A		ITTL	2	2.0	*	.80	30M\$*	4	20	0.0	5.0	20n			30m	300m*	2	7	2	74-73	DL14aw
17#	MB74LS73AM		ITTL	2	2.0	*	.80	30M\$*	4	20	0.0	5.0	20n			30m	300m*	2	7	2	74-73	DL14bn
18#	MB74LS76A		ITTL	2	2.0	*	.80	30M\$*	5	20	0.0	5.0	20n			30m	300m*	2	7	2	74LS76	DL16as
19#	MB74LS76AM		ITTL	2	2.0	*	.80	30M\$*	5	20	0.0	5.0	20n			30m	300m*	2	7	2	74LS76	DL16cu
20#	MB74LS78		ITTL	2	2.0	*	.80	30M\$*	5	20	0.0	5.0	20n			30m	300m*	2	7	2	74H78	DL14aw
21#	MB74LS78AM		ITTL	2	2.0	*	.80	30M\$*	5	20	0.0	5.0	20n			30m	300m*	2	7	2	74H78	DL14bn
22#	MB74LS107		ITTL	2	2.0	*	.80	30M\$*	4	20	0.0	5.0	30n			40m	300m*	2	7	2	74-107N	DL14ai
23#	MB74LS107A		ITTL	2	2.0	*	.80	30M\$*	4	20	0.0	5.0	20n			30m	300m*	2	7	2	74-107	DL14aw
24#	MB74LS107AM		ITTL	2	2.0	*	.80	30M\$*	4	20	0.0	5.0	20n			30m	300m*	2	7	2	74-107	DL14bn
25#	MB74LS107M		ITTL	2	2.0	*	.80	30M\$*	4	20	0.0	5.0	30n			40m	300m*	2	7	2	74-107N	DL14bn
26#	MB74LS109A		ITTL	2	2.0	*	.80	25M\$*	5	20	0.0	5.0	40n			40m	300m*	2	7	2	74LS109	DL16as
27#	MB74LS109AM		ITTL	2	2.0	*	.80	25M\$*	5	20	0.0	5.0	40n			40m	300m*	2	7	2	74LS109	DL16cu
28#	MB74LS112A		ITTL	2	2.0	*	.80	30M\$*	5	20	0.0	5.0	20n			30m	300m*	2	7	2	74LS112	DL16as
29#	MB74LS112AM		ITTL	2	2.0	*	.80	30M\$*	5	20	0.0	5.0	20n			30m	300m*	2	7	2	74LS112	DL16cu
30#	MB74LS113A		ITTL	2	2.0	*	.80	30M\$*	4	20	0.0	5.0	20n			30m	300m*	2	7	2	74LS113	DL14aw
31#	MB74LS113AM		ITTL	2	2.0	*	.80	30M\$*	4	20	0.0	5.0	20n			30m	300m*	2	7	2	74LS113	DL14bn
32#	MB74LS114A		ITTL	2	2.0	*	.80	30M\$*	5	20	0.0	5.0	20n			30m	300m*	2	7	2	74LS114	DL14aw
33#	MB74LS114AM		ITTL	2	2.0	*	.80	30M\$*	5	20	0.0	5.0	20n			30m	300m*	2	7	2	74LS114	DL14bn
34#	MB407		ITTL	2	2.0	*	.80	20M	9	10	0.0	5.0	30n			50m†	0	7	2	74L71N	DL14aq	
35#	MB407M		ITTL	2	2.0	*	.80	20M	9	10	0.0	5.0	30n			50m†	0	7	2	74L71N	DL14ac	
36#	MB410		ITTL	2	2.0	*	.80	20M	5	10	0.0	5.0	30n			80m†	0	7	2	74-107N	DL14aq	
37#	MB410M		ITTL	2	2.0	*	.80	20M	5	10	0.0	5.0	30n			80m†	0	7	2	74-107N	DL14ac	
38#	MB609		ITTL	2	2.0	*	.80	30M	9	10	0.0	5.0	17n			80m†	0	7	1	74L71N	DL14aq	
39#	MB618		ITTL	2	2.0	*	.80	30M	5	10	0.0	5.0	17n			160m†	0	7	2	74H78N	DL14aq	
40	N74H71F		ITTL	2	2.0	*	.80	25M\$*	10	10	0.0	5.0	22n			150m†	0	7	1	74H71N	DL14bh	
41	N74H71N		ITTL	2	2.0	*	.80	25M\$*	10	10	0.0	5.0	22n			150m†	0	7	1	74H71N	DL14br	
42	N74H72F		ITTL	2	2.0	*	.80	25M\$*	9	10	0.0	5.0	22n			250m†	0	7	1	74L71N	DL14bh	
43	N74H72N		ITTL	2	2.0	*	.80	25M\$*	9	10	0.0	5.0	22n			125m†	0	7	1	74L71N	DL14br	
44	N74H73F		ITTL	2	2.0	*	.80	25M\$*	4	10	0.0	5.0	22n			250m†	0	7	2	74-73N	DL14bh	
45	N74H73N		ITTL	2	2.0	*	.80	25M\$*	4	10	0.0	5.0	22n			250m†	0	7	2	74-73N	DL14br	
46	N74H76F		ITTL	2	2.0	*	.80	25M\$*	5	10	0.0	5.0	27n			250m	0	7	2	74LS76N	DL16aw	
47	N74H76N		ITTL	2	2.0	*	.80	25M\$*	5	10	0.0	5.0	27n			250m	0	7	2	74LS76N	DL16bp	
48	N74H101F		ITTL	2	2.0	*	.80	40M\$*	10	10	0.0	5.0	23n			190m	0	7	1	74H71N	DL14bh	
49	N74H101N		ITTL	2	2.0	*	.80	40M\$*	10	10	0.0	5.0	23n			190m	0	7	1	74H71N	DL14br	
50	N74H102F		ITTL	2	2.0	*	.80	40M\$*	9	10	0.0	5.0	23n			190m	0	7	1	74L71N	DL14bh	
51	N74H102N		ITTL	2	2.0	*	.80	40M\$*	9	10	0.0	5.0	23n			190m	0	7	1	74L71N	DL14br	
52	N74H103F		ITTL	2	2.0	*	.80	40M\$*	4	10	0.0	5.0	23n			380m	0	7	2	74H103	DL14bh	
53	N74H103N		ITTL	2	2.0	*	.80	40M\$*	4	10	0.0	5.0	23n			380m	0	7	2	74H103	DL14br	
54	N74H106F		ITTL	2	2.0	*	.80	40M\$*	5	10	0.0	5.0	23n			380m	0	7	2	74LS76N	DL16aw	
55	N74H106N		ITTL	2	2.0	*	.80	40M\$*	5	10	0.0	5.0	23n			380m	0	7	2	74LS76N	DL16bp	
56	N74H108F		ITTL	2	2.0	*	.80	40M\$*	5	10	0.0	5.0	23n			380m	0	7	2	74H78N	DL14bh	
57	N74H108N		ITTL	2	2.0	*	.80	40M\$*	5	10	0.0	5.0	23n			380m	0	7	2	74H78N	DL14br	
58	N74LS73F		ITTL	2	2.0	*	.80	30M\$*	4	20	0.0	5.0	30n			40m	0	7	2	74-73N	DL14bh	
59	N74LS73N		ITTL	2	2.0	*	.80	30M\$*	4	20	0.0	5.0	30n			40m	0	7	2	74-73N	DL14br	
60	N74LS76F		ITTL	2	2.0	*	.80	30M\$*	5	20	0.0	5.0	30n			40m	0	7	2	74LS76N	DL16aw	
61	N74LS76N		ITTL	2	2.0	*	.80	30M\$*	5	20	0.0	5.0	30n			40m	0	7	2	74LS76N	DL16bp	
62	N74LS78F		ITTL	2	2.0	*	.80	30M\$*	5	20	0.0	5.0	30n			40m	0	7	2	74L78N	DL14bh	
63	N74LS78N		ITTL	2	2.0	*	.80	30M\$*	5	20	0.0	5.0	30n			40m	0	7	2	74L78N	DL14br	
64	N74LS107F		ITTL	2	2.0	*	.80	30M\$*	4	20	0.0	5.0	30n			40m	0	7	2	74-107N	DL14bh	
65	N74LS107N		ITTL	2	2.0	*	.80	30M\$*	4	20	0.0	5.0	30n			40m	0	7	2	74-107N	DL14br	
66	N74LS109AF		ITTL	2	2.0	*	.80	25M\$*	5	20	0.0	5.0	40n			40m	0	7	2	54-109	DL16ar	
67	N74LS109AN		ITTL	2	2.0	*	.80	25M\$*	5	20	0.0	5.0	40n			40m	0	7	2	54-109	DL16bp	
68	N74LS109N		ITTL	2	2.0	*	.80	25M\$*	5	20	0.0	5.0	40n			40m	0	7	2	54-109	DL16bp	
69	N74LS112F		ITTL	2	2.0	*	.80	30M\$*	5	20	0.0	5.0	30n			40m	0	7	2	74LS112N	DL16aw	
70	N74LS112N		ITTL	2	2.0	*	.80	30M\$*	5	20	0.0	5.0	30n			40m	0	7	2	74LS112N	DL16bp	
71	N74LS113F		ITTL	2	2.0	*	.80	30M	4	20	0.0	5.0	25n			40m	0	7	2	74LS113N	DL14ak	
72	N74LS113N		ITTL	2	2.0	*	.80															

4. BINARY/FLIP-FLOPS

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC*
(4) LOGIC* (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE	LOGIC LEVEL		MAX. OPER. FREQ. (Hz)	FAN IN OUT		POWER SUPPLY SPAN		PROP. DELAY (S)	MAXIMUM RISE TIME FALL TIME (S)		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS	
					3] MIN. '1' (V)	4] MAX. '0' (V)				NEG (V)	POS (V)		(S)	(S)					LOGIC OR BLOCK	OUTLINE
1	SS4H76F		TTL	2	2.0	*.80	25MS*	5	10	0.0	5.0	27n			250m			2	74LS76N	DL16aw
2	SS4H76W		TTL	2	2.0	*.80	25MS*	5	10	0.0	5.0	27n			250m			2	54LS76W	FP47g
3	SS4H101F		TTL	2	2.0	*.80	40MS*	10	10	0.0	5.0	23n			190m			2	74H71N	DL14bh
4	SS4H101W		TTL	2	2.0	*.80	40MS*	10	10	0.0	5.0	23n			190m			1	54H71W	FP39e
5	SS4H102F		TTL	2	2.0	*.80	40MS*	9	10	0.0	5.0	23n			190m			1	74L71N	DL14bh
6	SS4H102W		TTL	2	2.0	*.80	40MS*	9	10	0.0	5.0	23n			190m			1	54L71T	FP39e
7	SS4H103F		TTL	2	2.0	*.80	40MS*	4	10	0.0	5.0	23n			380m			2	74H103	DL14bh
8	SS4H103W		TTL	2	2.0	*.80	40MS*	4	10	0.0	5.0	23n			380m			2	54H103	FP39e
9	SS4H106F		TTL	2	2.0	*.80	40MS*	5	10	0.0	5.0	23n			380m			2	74LS76N	DL14bh
10	SS4H106W		TTL	2	2.0	*.80	40MS*	5	10	0.0	5.0	23n			380m			2	54LS76W	FP47g
11	SS4H108F		TTL	2	2.0	*.80	40MS*	5	10	0.0	5.0	23n			380m			2	74H78	DL14bh
12	SS4H108W		TTL	2	2.0	*.80	40MS*	5	10	0.0	5.0	23n			380m			2	54H78W	FP39e
13	SS4S112F		TTL	2	2.0	*.80	80MS*	5	10	0.0	5.0	7.0n			250m	1.0	+	2	74LS112	DL16aw
14	SS4S112W		TTL	2	2.0	*.80	80MS*	5	10	0.0	5.0	7.0n			250m	1.0	+	2	54S112W	FP47g
15	SS4S113F		TTL	2	2.0	*.80	80MS*	4	10	0.0	5.0	7.0n			250m	1.0	+	2	74LS113N	DL16aw
16	SS4S113W		TTL	2	2.0	*.80	80MS*	4	10	0.0	5.0	7.0n			250m	1.0	+	2	54S113W	FP39e
17	SS4S114F		TTL	2	2.0	*.80	80MS*	8	10	0.0	5.0	7.0n			250m	1.0	+	2	74LS114	DL14bh
18	SS4S114W		TTL	2	2.0	*.80	80MS*	8	10	0.0	5.0	7.0n			250m	1.0	+	2	54S114W	FP39e
19	SS470F		TTL	2	2.0	*.80	20MS*	9	10	0.0	5.0	50n			130m	400m*		1	74-70N	DL14bh
20	SS470W		TTL	2	2.0	*.80	20MS*	9	10	0.0	5.0	50n			130m	400m*		1	54-70W	FP39e
21	SS472F		TTL	2	2.0	*.80	15MS*	9	10	0.0	5.0	40n			100m	400m*		1	74L71N	DL14bh
22	SS472W		TTL	2	2.0	*.80	15MS*	9	10	0.0	5.0	40n			100m	400m*		1	54L71T	FP39e
23	SS473F		TTL	2	2.0	*.80	15MS*	4	10	0.0	5.0	40n			200m	400m*		2	74-73N	DL14bh
24	SS473W		TTL	2	2.0	*.80	15MS*	4	10	0.0	5.0	40n			200m	400m*		2	54-73W	FP39e
25	SS476F		TTL	2	2.0	*.80	15MS*	5	10	0.0	5.0	40n			200m	1.0	+	2	74LS76N	DL16aw
26	SS476W		TTL	2	2.0	*.80	15MS*	5	10	0.0	5.0	40n			200m	1.0	+	2	54LS76W	FP47g
27	SS4107F		TTL	2	2.0	*.80	15MS*	4	10a	0.0	5.0	40n			200m	1.0	+	2	74-107N	DL14bh
28	SS4107W		TTL	2	2.0	*.80	15MS*	4	10a	0.0	5.0	40n			200m	1.0	+	2	54-107F	FP39e
29	SS4109F		TTL	2	2.0	*.80	25MS*	5	10a	0.0	5.0	35n			150m	1.0	+	2	74-109N	DL16aw
30	SS4109W		TTL	2	2.0	*.80	25MS*	5	10a	0.0	5.0	35n			150m	1.0	+	2	54-109W	FP47g
31#	SNFC473EM		TTL	2	2.0	*.80	20M†\$	8	10	0.0	5.0	40n				1.0	+	2	74-73N	TO116
32#	SNFC473ET		TTL	2	2.0	*.80	20M†\$	8	10	0.0	5.0	40n				1.0	+	2	74-73N	TO116
33#	SNFC476E		TTL	2	2.0	*.80	20M†\$	8	10	0.0	5.0	40n				1.0	+	2	74LS76N	DL16a
34#	SNFC476EM		TTL	2	2.0	*.80	20M†\$	8	10	0.0	5.0	40n				1.0	+	2	74LS76N	DL16a
35#	SNFC476ET		TTL	2	2.0	*.80	20M†\$	8	10	0.0	5.0	40n				1.0	+	2	74LS76N	DL16a
36#	SNFC4107E		TTL	2	2.0	*.80	20M†\$	8	10	0.0	5.0	40n				1.0	+	2	74-107N	TO116
37#	SNFC4107EM		TTL	2	2.0	*.80	20M†\$	8	10	0.0	5.0	40n				1.0	+	2	74-107N	TO116
38#	SNFC4107ET		TTL	2	2.0	*.80	20M†\$	8	10	0.0	5.0	40n				1.0	+	2	74-107N	TO116
39	SN54H71J		TTL	2	2.0	*.80	30M†\$	10	20	0.0	5.0	27n			150m			2	74H71N	DL14af
40	SN54H71W		TTL	2	2.0	*.80	30M†\$	10	20	0.0	5.0	27n			150m			1	54H71W	MO004AA
41	SN54H72J		TTL	2	2.0	*.80	30M†\$	9	20	0.0	5.0	27n			125m			1	74L71N	DL14af
42	SN54H72W		TTL	2	2.0	*.80	30M†\$	9	20	0.0	5.0	27n			125m			1	54L71T	MO004AA
43	SN54H73J		TTL	2	2.0	*.80	30M†\$	4	20	0.0	5.0	19n			125m	1.0	+	2	74-73N	DL14af
44	SN54H73W		TTL	2	2.0	*.80	30M†\$	4	20	0.0	5.0	19n			125m	1.0	+	2	54-73W	MO004AA
45	SN54H76J		TTL	2	2.0	*.80	30M†\$	5	20	0.0	5.0	27n			125m	1.0	+	2	74LS76N	DL14af
46	SN54H76W		TTL	2	2.0	*.80	25M	5	20	0.0	5.0	27n			125m			2	54LS76W	MO004AG
47	SN54H78J		TTL	2	2.0	*.80	30M†\$	5	20	0.0	5.0	27n			80m†	1.0	+	2	74H78N	DL14af
48	SN54H78W		TTL	2	2.0	*.80	30M†\$	5	20	0.0	5.0	27n			184m†	1.0	+	2	54H78W	MO004AA
49	SN54H101J		TTL	2	2.0	*.80	50M†	9	10	0.0	5.0	35n			100m†	1.0	+	2	74H71N	DL14af
50	SN54H101W		TTL	2	2.0	*.80	50M†	9	10	0.0	5.0	35n			100m†	1.0	+	2	54H71W	MO004AA
51	SN54H102J		TTL	2	2.0	*.80	50M†	9	10	0.0	5.0	35n			100m†	1.0	+	1	74L71N	DL14af
52	SN54H102W		TTL	2	2.0	*.80	50M†	9	10	0.0	5.0	35n			100m†	1.0	+	1	54L71T	MO004AA
53	SN54H103J		TTL	2	2.0	*.80	50M†	5	10	0.0	5.0	35n			200m†	1.0	+	2	74H103	DL14af
54	SN54H103W		TTL	2	2.0	*.80	50M†	5	10	0.0	5.0	35n			200m†	1.0	+	2	54H103	MO004AA
55	SN54H106J		TTL	2	2.0	*.80	50M†	5	10	0.0	5.0	35n			200m†	1.0	+	2	74LS76N	DL14af
56	SN54H106W		TTL	2	2.0	*.80	50M†	5	10	0.0	5.0	35n			200m†	1.0	+	2	54LS76W	MO004AA
57	SN54H108J		TTL	2	2.0	*.80	50M†	5	10	0.0	5.0	35n			200m†	1.0	+	2	74H78N	DL14af
58	SN54H108W		TTL	2	2.0	*.80	50M†	5	10	0.0	5.0	35n			200m†	1.0	+	2	54H78W	MO004AA
59	SN54S112J		TTL	2	2.0	*.80	80MS	5	20	0.0	5.0	5.0n			250m†	1.0	+	2	74LS112N	DL16v
60	SN54S112W		TTL	2	2.0	*.80	80MS	5	20	0.0	5.0	5.0n			250m†	1.0	+	2	54S112W	MO004AG
61	SN54S113J		TTL	2	2.0	*.80	80MS	4	20	0.0	5.0	5.0n			250m†	1.0	+	2	74LS113N	DL14af
62	SN54S113W		TTL	2	2.0	*.80	80MS	4	20	0.0	5.0	5.0n			250m†	1.0	+	2	54S113W	MO004AA
63	SN54S114J		TTL	2	2.0	*.80	80MS	5	20	0.0	5.0	5.0n			250m†	1.0	+	2	74LS114N	DL14af
64	SN54S114W		TTL	2	2.0	*.80	80MS	5	20	0.0	5.0	5.0n			250m†	1.0	+	2	54S114W	MO004AA
65	SN74H71J		TTL	2	2.0	*.80	30M†\$	10	20	0.0	5.0	27n			150m			1	74H71N	DL14af
66	SN74H71N		TTL	2	2.0	*.80	30M†\$	10	20	0.0	5.0	27n			150m			1	74H71N	DL14r
67	SN74H72J		TTL	2	2.0	*.80	30M†\$	9	20	0.0	5.0	27n			125m			1	74L71N	DL14af
68	SN74H72N		TTL	2	2.0	*.80	30M†\$	9	20	0.0	5.0	27n			125m			1	74L71N	DL14r
69	SN74H73J		TTL	2	2.0	*.80	30M†\$	4	20	0.0	5.0	27n			125m	1.0	+	2	74-73N	DL14af
70	SN74H73N		TTL	2	2.0	*.80	30M†\$	4	20	0.0	5.0	27n			125m	1.0	+	2	74-73N	DL14r
71	SN74H76J		TTL	2	2.0	*.80	30M†\$	5	20	0.0	5.0	27n			125m	1.0	+	2	74LS76N	DL14af
72	SN74H76N		TTL	2	2.0	*.80	30M†\$	5	20	0.0	5.0	27n			125m	1.0	+	2	74LS76N	DL14r
73	SN74H78J		TTL	2	2.0	*.80	30M†\$	5	20	0.0	5.0	27n			125m	1.0	+	2	74H78N	DL14af
74	SN74H78N		TTL	2	2.0	*.80	30M†\$	5	20	0.0	5.0	27n			125m	1.0	+	2	74H78N	DL14r
75	SN74H101J		TTL	2	2.0	*.80	50M†	9	10	0.0	5.0	35n			190m	1.0	+	2	74H71N	DL14af
76	SN74H101N		TTL	2	2.0	*.80	50M†	9	10	0.0	5.0	35n			190m	1.0	+	2</		

4. BINARY/FLIP-FLOPS

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC (4) LOGIC (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE	LOGIC LEVEL		MAX. OPER. FREQ. (Hz)	FAN IN	OUT MAX	POWER SUPPLY SPAN		PROP. DELAY (S)	MAXIMUM RISE TIME (S)		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS		
					3 MIN. (V)	4 MAX. (V)				NEG (V)	POS (V)		(S)	(S)					LOGIC OR BLOCK	OUTLINE	
1	SN7473J		TTL	2	2.0	*.80	20M\$	8	4	0.0	5.0	40n			50m†	1.0 †	0	7	2	74-73N	DL14af
2	SN7473N		TTL	2	2.0	*.80	20M\$†	4	10	0.0	5.0	40n			50m†	1.0 †	0	7	2	74-73N	DL14r
3	SN7476J		TTL	2	2.0	*.80	20M\$		20	0	5.0	40n			100m	1.0 †	0	7	2	74LS76	DL14af
4	SN7476N		TTL	2	2.0	*.80	20M\$		20	0.0	5.0	40n			100m	1.0 †	0	7	2	74LS76N	MO004AA
5	SN54107J		TTL	2	2.0	*.80	20M\$	8	4	0.0	5.0	40n			200m	1.0 †	5	C	2	74-107N	DL14af
6	SN54109J		TTL	2	2.0	*.80	25M\$	5	20	0.0	5.0	35n			75m	1.0 †	5	C	2	74-109N	DL16v
7	SN54109W		TTL	2	2.0	*.80	25M\$	5	20	0.0	5.0	35n			75m	1.0 †	0	7	2	54-109W	DL16i
8	SN54110J		TTL	2	2.0	*.80	20M\$	9	20	0.0	5.0	30n			100m	1.0 †	5	C	1	74L71N	DL14af
9	SN54110W		TTL	2	2.0	*.80	20M\$	9	20	0.0	5.0	30n			100m	1.0 †	0	7	1	54-110W	MO004AA
10	SN54111J		TTL	2	2.0	*.80	20M\$	5	20	0.0	5.0	30n			140m	1.0 †	5	C	2	74-111N	DL16v
11	SN54111W		TTL	2	2.0	*.80	20M\$	5	20	0.0	5.0	30n			140m	1.0 †	5	C	2	54-111W	MO004AG
12#	SN54276J		TTL	2	2.0	*.80	35M	5	10a	0.0	5.0	30n	12n#		405m	400m*	5	C	4	74-276N	DL20b
13#	SN64107N		TTL	2	2.0	*.80	15M†	5	10	0.0	5.0	50n			40m	1.0	4	8	2	74-107N	DL16a
14	SN74107J		TTL	2	2.0	*.80	20M\$	8	40	0.0	5.0	40n			200m	1.0 †	0	7	2	74-107N	DL14af
15	SN74107N		TTL	2	2.0	*.80	20M†	5	10	0.0	5.0	40n			200m	1.0	0	7	2	74-107N	DL14r
16	SN74109J		TTL	2	2.0	*.80	25M\$	5	20	0.0	5.0	35n			75m	1.0 †	0	7	2	74-109N	DL16v
17	SN74109N		TTL	2	2.0	*.80	25M\$	5	20	0.0	5.0	35n			75m	1.0 †	5	C	2	74-109N	DL16a
18	SN74110J		TTL	2	2.0	*.80	20M\$	9	20	0.0	5.0	30n			100m	1.0 †	0	7	1	74L71N	DL14af
19	SN74110N		TTL	2	2.0	*.80	20M\$	9	20	0.0	5.0	30n			100m	1.0 †	5	C	1	74L71N	DL14r
20	SN74111J		TTL	2	2.0	*.80	20M\$	5	20	0.0	5.0	30n			140m	1.0 †	0	7	2	74-111N	DL16v
21	SN74111N		TTL	2	2.0	*.80	20M\$	5	20	0.0	5.0	30n			140m	1.0 †	0	7	2	74-111N	DL16i
22#	SN74276J		TTL	2	2.0	*.80	35M	5	10a	0.0	5.0	30n	12n#		405m	400m*	0	7	4	74-276N	DL20b
23#	SN74276N		TTL	2	2.0	*.80	35M	5	10a	0.0	5.0	30n	12n#		405m	400m*	0	7	4	74-276N	DL20a
24#	T74LS109B1		TTL	2	2.0	*.80		4	22d	0.0	5.0	26n			40m%	300m	0	7	2	74-109N	DL16bj
25#	T74LS109D1		TTL	2	2.0	*.80		4	22d	0.0	5.0	26n			40m%	300m	0	7	2	74-109N	DL16ak
26#	T74LS112B1		TTL	2	2.0	*.80		4	22d	0.0	5.0	16n			40m%	300m	0	7	2	74LS112N	DL16bj
27#	T74LS112D1		TTL	2	2.0	*.80		4	22d	0.0	5.0	16n			40m%	300m	0	7	2	74LS112N	DL16ak
28#	T74LS113B1		TTL	2	2.0	*.80	45M\$†	3	5	0.0	5.0	16u			40m%	300m	0	7	2	74LS113N	DL14y
29#	T74LS113D1		TTL	2	2.0	*.80	45M\$†	3	5	0.0	5.0	16u			40m%	300m	0	7	2	74LS113N	DL14av
30#	T74LS114B1		TTL	2	2.0	*.80	45M\$†	4	5	0.0	5.0	16u			40m%	300m	0	7	2	74LS114N	DL14y
31#	T74LS114D1		TTL	2	2.0	*.80	45M\$†	4	5	0.0	5.0	16u			40m%	300m	0	7	2	74LS114N	DL14av
32	DM54L72W#mil		TTL	2	2.0	0.7	11M			0	8.0	75n				0.4	5	C	2	B02-88	FP97c
33	DM54L73W#mil		TTL	2	2.0	0.7	11M			0	8.0	75n				0.4	5	C	2	B02-203	FP97c
34	SN74LS591J		TTL	2	2.0	0.7	20M			0	7.0	25n				0.4	0	7	8	E02-201	DL16dw
35	SN74LS591N		TTL	2	2.0	0.7	20M			0	7.0	25n				0.4	0	7	8	E02-201	DL16dxz
36	MC54F109J(A)		TTL	2	2.0	0.8	90M			0.0	5.0	9.0n					5	C	2	74-109	DL16ao
37	MC54F109N(A)		TTL	2	2.0	0.8	90M			0.0	5.0	9.0n					5	C	2	74-109	DL16dp
38	MC74F109J(A)		TTL	2	2.0	0.8	90M			0.0	5.0	8.0n					0	7	2	74-109	DL16ao
39	MC74F109N(A)		TTL	2	2.0	0.8	90M			0.0	5.0	8.0n					0	7	2	74-109	DL16dp
40#	N74F109F		TTL	2	2.0	0.8	125M\$			-5	7.0	7.0n					0	7		74-109	DL16eb
41#	N74F109N		TTL	2	2.0	0.8	125M\$			-5	7.0	7.0n					0	7		74-109	DL16ea
42	N74LS109F		TTL	2	2.0	0.8	25M	5	20	0.0	5.0	32n	15n	6n		0.4	0	7	2	74-109N	DL16ar
43#	S54F109F		TTL	2	2.0	0.8	80M\$*			0.5	7.0	11n	2.5n	2.5n			5	C	2	74-109	DL16Z
44#	S54F109W		TTL	2	2.0	0.8	80M\$*			0.5	7.0	11n	2.5n	2.5n			5	C	2	54-109	FPZ
45#	M74ALS112AP		TTL	2	2.0*	0.8	30M			0.0	5.0	19n			25m		2	7	2	74LS112N	DL16db
46#	M74ALS113AP		TTL	2	2.0*	0.8	34M			0.0	5.0	20n			22m		2	7	2	74LS113N	DL14cf
47#	M74ALS114AP		TTL	2	2.0*	0.8	34M			0.0	5.0	20n			22m		2	7	2	74LS114N	DL14cf
48#	N74S112D		TTL	2	2.0*	0.8	80M\$*	5	10	0.0	5.0	7.0n			250m	1.0 †	0	7	2	74LS112N	DL16aw
49	MC3161F		TTL	2	2.4	*.40	50M†	4	10	0.0	5.0	12n			100m		5	C	2	B02-173	TO86
50	MC3161L		TTL	2	2.4	*.40	50M†	4	10	0.0	5.0	12n			100m†		5	C	2	74H119P	TO116
51	MC3162F		TTL	2	2.4	*.40	50M†	4	10	0.0	5.0	12n			100m		5	C	2	B02-173a	TO86
52	MC3162L		TTL	2	2.4	*.40	50M†	4	10	0.0	5.0	12n	40n	25n	100m†		5	C	2	74LS113N	TO116
53#	K155TV1		TTL	2	2.4	0.4		9	10	0.0	5.0						1	7	2	Bo288	
54	MC3061L.P%		TTL	2	2.5	*.40	50M†	4	10	0.0	5.0	12n			100m†		0	7	2	B02-173	TO116
55	MC3062L.P%		TTL	2	2.5	*.40	50M†	4	10	0.0	5.0	12n			100m†		0	7	2	B02-173a	TO116
56	N8H20Q		TTL	2	2.6	*.40	80M†	4	30	0.0	5.0	9.0n	50n	50n	90m	600m	0	7	2	B02-92b	TO88
57	N8H21A		TTL	2	2.6	*.40	80M†	5	30	0	5	9.0n	50n	50n	90m	600m	0	7	2	B02-92c	TO116
58	N8H21F		TTL	2	2.6	*.40	80M†	5	30	0.0	5.0	9.0n	50n	50n	90m	600m	0	7	2	B02-92c	DL14ad
59	N8H21Q		TTL	2	2.6	*.40	80M†	5	30	0.0	5.0	9.0n	50n	50n	90m	600m	0	7	2	B02-92c	TO88
60	N8H22B		TTL	2	2.6	*.40	80M†	5	30	0	5	9.0n	50n	50n	90m	600m	0	7	2	B02-92d	DL16b
61	N8H22E		TTL	2	2.6	*.40	80M†	5	30	0.0	5.0	9.0n	50n	50n	90m	600m	0	7	2	B02-92d	DL16t
62	N8821J		TTL	2	2.6	*.40	25M†	5	20	0	5	20n	50n	50n	72m	600m	0	7	2	*	TO88
63	N8822A		TTL	2	2.6	*.40	25M†	5	20	0	5	20n	50n	50n	72m	600m	0	7	2	*	TO116
64	N8822F		TTL	2	2.6	*.40	25M†	5	20	0.0	5.0	20n					0	7	2	*	DL14ad
65	N8822J		TTL	2	2.6	*.40	25M†	5	20	0	5	20n	50n	50n	72m	600m	0	7	2	*	TO88
66	N8824B		TTL	2	2.6	*.40	25M†	5	20	0	5	20n	50n	50n	72m	600m	0	7	2	74-74N	DL16b
67	N8825A		TTL	2	2.6	*.40	25M†	9	20	0	5	50n	50n	132m	600m	0	7	1	74-70N	TO116	
68	N8825F		TTL	2	2.6	*.40	25M†	9	20	0.0	5.0	50n					0	7	1	74-70N	DL14ad
69	N8825J		TTL	2	2.6	*.40	25M†	9	20	0	5	50n	50n	132m	600m	0	7	1	54-70W	TO88	
70	N8826A		TTL	2	2.6	*.40	30M†	4	10	0	5	28n	50n	62m	600m	0	7	2	B02-108	TO116	
71	N8826F		TTL	2	2.6	*.40	30M†	4	10	0.0	5.0	28n	50n	62m	600m	0	7	2	B02-108	DL14ad	
72	N8826J		TTL	2	2.6	*.40	30M†	4	10	0	5	28n	50n	62m	600m	0	7	2	B02-108	TO88	
73	N8827A		TTL	2	2.6	*.40	30M†	5	10	0	5	2.0n	50n	64m	600m	0	7	2	B02-108a	TO116	
74	N8827F		TTL	2	2.6	*.40</															

4. BINARY/FLIP-FLOPS

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC (4) LOGIC (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE	LOGIC LEVEL		MAX. OPER. FREQ. (Hz)	FAN IN/OUT		POWER SUPPLY SPAN		PROP. DELAY (S)	MAXIMUM RISE/FALL TIME (S)		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS		
					3 MIN. (V)	4 MAX. (V)		IN	OUT MAX	NEG (V)	POS. (V)		RISE	FALL					LOGIC OR BLOCK	OUTLINE	
																			+	-	
1	RF251CJ		TTL	2	2	3.2	.40	30MT*	10	6	0.0	5.0	25n	6.0n	4.0n	50mt	900m	5 C	1	B02-42	FP52j
2	RF251CK		TTL	2	2	3.2	.40	30MT*	10	6	0.0	5.0	25n	6.0n	4.0n	50mt	900m	5 C	1	B02-42	FP52k
3	RF251DC		TTL	2	2	3.2	.40	30MT*	10	6	0.0	5.0	25n	6.0n	4.0n	50mt	900m	5 C	1	B02-42	DL14be
4	SNF121W		TTL	2	2	3.4	.26	50M	4	7	0.0	5.0		1.0nt	1.7n	50m	900m	5 C	2	MO004AF	
5	RF32CJ		TTL	2	2	3.4	.20	15MT	4	12	0.0	5.0				30mt	1.1	0 7	1	B04-42	FP52j
6	RF32CK		TTL	2	2	3.4	.20	15MT	4	12	0.0	5.0				30mt	1.1	0 7	1	B04-42	FP52k
7	RF32DC		TTL	2	2	3.4	.20	15MT	4	12	0.0	5.0				30mt	1.1	0 7	1	B04-42	DL14be
8	RF33CJ		TTL	2	2	3.4	.20	15MT	4	6	0.0	5.0				30mt	1.1	0 7	1	B04-42	FP52j
9	RF33CK		TTL	2	2	3.4	.20	15MT	4	6	0.0	5.0				30mt	1.1	0 7	1	B04-42	FP52k
10	RF33DC		TTL	2	2	3.4	.20	15MT	4	6	0.0	5.0				30mt	1.1	0 7	1	B04-42	DL14be
11	RF50CJ		TTL	2	2	3.4	.20	20MT	6	15	0.0	5.0				50mt	1.1	5 C	1	B02-42	FP52j
12	RF50CK		TTL	2	2	3.4	.20	20MT	6	15	0.0	5.0				50mt	1.1	5 C	1	B02-42	FP52k
13	RF50DC		TTL	2	2	3.4	.20	20MT	6	15	0.0	5.0				50mt	1.1	5 C	1	B02-42	DL14be
14	RF51CJ		TTL	2	2	3.4	.20	20MT	6	7	0.0	5.0				50mt	1.1	5 C	1	B02-42	FP52j
15	RF51CK		TTL	2	2	3.4	.20	20MT	6	7	0.0	5.0				50mt	1.1	5 C	1	B02-42	FP52k
16	RF51DC		TTL	2	2	3.4	.20	20MT	6	7	0.0	5.0				50mt	1.1	5 C	1	B02-42	DL14be
17	RF52CJ		TTL	2	2	3.4	.20	20MT	6	12	0.0	5.0				50mt	1.1	0 7	1	B02-42	FP52j
18	RF52CK		TTL	2	2	3.4	.20	20MT	6	12	0.0	5.0				50mt	1.1	0 7	1	B02-42	FP52k
19	RF52DC		TTL	2	2	3.4	.20	20MT	6	12	0.0	5.0				50mt	1.1	0 7	1	B02-42	DL14be
20	RF53CJ		TTL	2	2	3.4	.20	20MT	6	6	0.0	5.0				50mt	1.1	0 7	1	B02-42	FP52j
21	RF53CK		TTL	2	2	3.4	.20	20MT	6	6	0.0	5.0				50mt	1.1	0 7	1	B02-42	FP52k
22	RF53DC		TTL	2	2	3.4	.20	20MT	6	6	0.0	5.0				50mt	1.1	0 7	1	B02-42	DL14be
23	RF60CJ		TTL	2	2	3.4	.20	20MT	8	15	0.0	5.0				55mt	1.1	5 C	1	B02-106	FP52j
24	RF60CK		TTL	2	2	3.4	.20	20MT	8	15	0.0	5.0				55mt	1.1	5 C	1	B02-106	FP52k
25	RF60DC		TTL	2	2	3.4	.20	20MT	8	15	0.0	5.0				55mt	1.1	5 C	1	B02-106	DL14be
26	RF61CJ		TTL	2	2	3.4	.20	20MT	8	7	0.0	5.0				55mt	1.1	5 C	1	B02-106	FP52j
27	RF61CK		TTL	2	2	3.4	.20	20MT	8	7	0.0	5.0				55mt	1.1	5 C	1	B02-106	FP52k
28	RF61DC		TTL	2	2	3.4	.20	20MT	8	7	0.0	5.0				55mt	1.1	5 C	1	B02-106	DL14be
29	RF62CJ		TTL	2	2	3.4	.20	20MT	8	12	0.0	5.0				55mt	1.1	0 7	1	B02-106	FP52j
30	RF62CK		TTL	2	2	3.4	.20	20MT	8	12	0.0	5.0				55mt	1.1	0 7	1	B02-106	FP52k
31	RF62DC		TTL	2	2	3.4	.20	20MT	8	12	0.0	5.0				55mt	1.1	0 7	1	B02-106	DL14be
32	RF63CJ		TTL	2	2	3.4	.20	20MT	8	6	0.0	5.0				55mt	1.1	0 7	1	B02-106	FP52j
33	RF63CK		TTL	2	2	3.4	.20	20MT	8	6	0.0	5.0				55mt	1.1	0 7	1	B02-106	FP52k
34	RF63DC		TTL	2	2	3.4	.20	20MT	8	6	0.0	5.0				55mt	1.1	0 7	1	B02-106	DL14be
35	RF100CJ		TTL	2	2	3.4	.20	35MT	3	11	0.0	5.0				110mt	1.0	5 C	2	B03-8r	FP52j
36	RF100CK		TTL	2	2	3.4	.20	35MT	3	11	0.0	5.0				110mt	1.0	5 C	2	B03-8r	FP52k
37	RF100DC		TTL	2	2	3.4	.20	35MT	3	11	0.0	5.0				110mt	1.0	5 C	2	B03-8r	DL14be
38	RF101CJ		TTL	2	2	3.4	.20	35MT	3	6	0.0	5.0				110mt	1.0	5 C	2	B03-8r	FP52j
39	RF101CK		TTL	2	2	3.4	.20	35MT	3	6	0.0	5.0				110mt	1.0	5 C	2	B03-8r	FP52k
40	RF101DC		TTL	2	2	3.4	.20	35MT	3	6	0.0	5.0				110mt	1.0	5 C	2	B03-8r	DL14be
41	RF102CJ		TTL	2	2	3.4	.20	35MT	3	9	0.0	5.0				110mt	1.0	0 7	2	B03-8r	FP52j
42	RF102CK		TTL	2	2	3.4	.20	35MT	3	9	0.0	5.0				110mt	1.0	0 7	2	B03-8r	FP52k
43	RF102DC		TTL	2	2	3.4	.20	35MT	3	9	0.0	5.0				110mt	1.0	0 7	2	B03-8r	DL14be
44	RF103CJ		TTL	2	2	3.4	.20	35MT	3	5	0.0	5.0				110mt	1.0	0 7	2	B03-8r	FP52j
45	RF103CK		TTL	2	2	3.4	.20	35MT	3	5	0.0	5.0				110mt	1.0	0 7	2	B03-8r	FP52k
46	RF103DC		TTL	2	2	3.4	.20	35MT	3	5	0.0	5.0				110mt	1.0	0 7	2	B03-8r	DL14be
47	RF110CJ		TTL	2	2	3.4	.20	35MT	3	11	0.0	5.0				110mt	1.0	5 C	2	B03-8s	FP52j
48	RF110CK		TTL	2	2	3.4	.20	35MT	3	11	0.0	5.0				110mt	1.0	5 C	2	B03-8s	FP52k
49	RF110DC		TTL	2	2	3.4	.20	35MT	3	11	0.0	5.0				110mt	1.0	5 C	2	B03-8s	DL14be
50	RF111CJ		TTL	2	2	3.4	.20	35MT	3	6	0.0	5.0				110mt	1.0	5 C	2	B03-8s	FP52j
51	RF111CK		TTL	2	2	3.4	.20	35MT	3	6	0.0	5.0				110mt	1.0	5 C	2	B03-8s	FP52k
52	RF111DC		TTL	2	2	3.4	.20	35MT	3	6	0.0	5.0				110mt	1.0	5 C	2	B03-8s	DL14be
53	RF112CJ		TTL	2	2	3.4	.20	35MT	3	9	0.0	5.0				110mt	1.0	0 7	2	B03-8s	FP52j
54	RF112CK		TTL	2	2	3.4	.20	35MT	3	9	0.0	5.0				110mt	1.0	0 7	2	B03-8s	FP52k
55	RF112DC		TTL	2	2	3.4	.20	35MT	3	9	0.0	5.0				110mt	1.0	0 7	2	B03-8s	DL14be
56	RF113CJ		TTL	2	2	3.4	.20	35MT	3	5	0.0	5.0				110mt	1.0	0 7	2	B03-8s	FP52j
57	RF113CK		TTL	2	2	3.4	.20	35MT	3	5	0.0	5.0				110mt	1.0	0 7	2	B03-8s	FP52k
58	RF113DC		TTL	2	2	3.4	.20	35MT	3	5	0.0	5.0				110mt	1.0	0 7	2	B03-8s	DL14be
59	RF120CJ		TTL	2	2	3.4	.20	50MT	3	11	0.0	5.0				110mt	1.0	5 C	2	B03-8r	FP52j
60	RF120CK		TTL	2	2	3.4	.20	50MT	3	11	0.0	5.0				110mt	1.0	5 C	2	B03-8r	FP52k
61	RF120DC		TTL	2	2	3.4	.20	50MT	3	11	0.0	5.0				110mt	1.0	5 C	2	B03-8r	DL14be
62	RF121CJ		TTL	2	2	3.4	.20	50MT	3	6	0.0	5.0				110mt	1.0	5 C	2	B03-8r	FP52j
63	RF121CK		TTL	2	2	3.4	.20	50MT	3	6	0.0	5.0				110mt	1.0	5 C	2	B03-8r	FP52k
64	RF121DC		TTL	2	2	3.4	.20	50MT	3	6	0.0	5.0				110mt	1.0	5 C	2	B03-8r	DL14be
65	RF122CJ		TTL	2	2	3.4	.20	50MT	3	9	0.0	5.0				110mt	1.0	0 7	2	B03-8r	FP52j
66	RF122CK		TTL	2	2	3.4	.20	50MT	3	9	0.0	5.0				110mt	1.0	0 7	2	B03-8r	FP52k
67	RF122DC		TTL	2	2	3.4	.20	50MT	3	9	0.0	5.0				110mt	1.0	0 7	2	B03-8r	DL14be
68	RF123CJ		TTL	2	2	3.4	.20	50MT	3	5	0.0	5.0				110mt	1.0	0 7	2	B03-8r	FP52j
69	RF123CK		TTL	2	2	3.4	.20	50MT	3	5	0.0	5.0				110mt	1.0	0 7	2	B03-8r	FP52k
70	RF123DC		TTL	2	2	3.4	.20	50MT	3	5	0.0	5.0				110mt	1.0	0 7	2	B03-8r	DL14be
71	RF130CJ		TTL	2	2	3.4	.20	50MT	3	11	0.0	5.0				110mt	1.0	5 C	2	B03-8s	FP52j
72	RF130CK		TTL	2	2	3.4	.20	50MT	3	11	0.0	5.0				110mt	1.0	5 C	2	B03-8s	FP52k
73	RF130DC		TTL	2	2	3.4	.20	50MT	3	11	0.0	5.0				110mt	1.0	5 C	2	B03-8s	DL14be
74	RF131CJ		TTL	2	2	3.4	.20	50MT	3	6	0.0	5.0				110mt	1.0	5 C	2	B03-8s	FP52j
75	RF131CK		TTL	2	2	3.4	.20	50MT	3	6	0.0	5.0				110mt	1.0	5 C	2	B03-8s	FP52k
76	RF131DC		TTL	2	2	3.4	.														

4. BINARY/FLIP-FLOPS

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC* (4) LOGIC* (5) TYPE NO.

LINE NO.	TYPE NO.	DATA SHT.	TECH	TYPE	LOGIC LEVEL		MAX. OPER. FREQ. (Hz)	FAN		POWER SUPPLY SPAN		PROP. DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS		
					3 MIN. (V)	4 MAX. (V)		IN	OUT MAX	NEG (V)	POS. (V)		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE	
1	RF26TCK		TTL	2	3.4	.20	30MT	8	6	0.0	5.0				55m†	1.1	5	C	1	B02-106	FP52k
2	RF261DC		TTL	2	3.4	.20	30MT	8	6	0.0	5.0				55m†	1.1	5	C	1	B02-106	DL14be
3	RF262CJ		TTL	2	3.4	.20	30MT	8	9	0.0	5.0				55m†	1.1	0	7	1	B02-106	FP52j
4	RF262CK		TTL	2	3.4	.20	30MT	8	9	0.0	5.0				55m†	1.1	0	7	1	B02-106	FP52k
5	RF262DC		TTL	2	3.4	.20	30MT	8	9	0.0	5.0				55m†	1.1	0	7	1	B02-106	DL14be
6	RF263CJ		TTL	2	3.4	.20	30MT	8	5	0.0	5.0				55m†	1.1	0	7	1	B02-106	FP52j
7	RF263CK		TTL	2	3.4	.20	30MT	8	5	0.0	5.0				55m†	1.1	0	7	1	B02-106	FP52k
8	RF263DC		TTL	2	3.4	.20	30MT	8	5	0.0	5.0				55m†	1.1	0	7	1	B02-106	DL14be
9	SN54376J		TTL	2	3.4	.40	30MS	3	5	0.0	5.0	30n			370m		5	C	4	74-376N	DL14j
10	SN54376W		TTL	2	3.4	.40	30MS	3	3	0.0	5.0	30n			370m		5	C	4	54-376W	DL14j
11	SN74376J		TTL	2	3.4	.40	30MS	3	3	0.0	5.0	30n			370m		5	C	4	74-376N	DL14j
12#	ZN5470E		TTL	2	3.5	.20		9	10	0.0	5.0	13n			10m	1.0	5	C	1		DL14m
13#	ZN5470F		TTL	2	3.5	.20		9	10	0.0	5.0	13n			10m	1.0	5	C	1		TO86
14#	ZN5472E		TTL	2	3.5	.20		9	10	0.0	5.0	13n			10m	1.0	5	C	1		DL14m
15#	ZN5472F		TTL	2	3.5	.20		9	10	0.0	5.0	13n			10m	1.0	5	C	1		TO86
16#	ZN5473E		TTL	2	3.5	.20		4	10	0.0	5.0	13n			10m	1.0	5	C	2		DL14m
17#	ZN5473F		TTL	2	3.5	.20		4	10	0.0	5.0	13n			10m	1.0	5	C	2		TO86
18#	ZN5476E		TTL	2	3.5	.20		5	10	0.0	5.0	13n			10m	1.0	5	C	2		DL14m
19#	ZN7470E		TTL	2	3.5	.20		9	10	0.0	5.0	13n			10m	1.0	0	7	1		DL14m
20#	ZN7470F		TTL	2	3.5	.20		9	10	0.0	5.0	13n			10m	1.0	0	7	1		TO86
21#	ZN7472E		TTL	2	3.5	.20		9	10	0.0	5.0	13n			10m	1.0	0	7	1		DL14m
22#	ZN7472F		TTL	2	3.5	.20		9	10	0.0	5.0	13n			10m	1.0	0	7	1		TO86
23#	ZN7473E		TTL	2	3.5	.20		4	10	0.0	5.0	13n			10m	1.0	0	7	2		DL14m
24#	ZN7473F		TTL	2	3.5	.20		4	10	0.0	5.0	13n			10m	1.0	0	7	2		TO86
25#	ZN7476E		TTL	2	3.5	.20		5	10	0.0	5.0	13n			10m	1.0	0	7	2		DL14m
26#	ZN54107E		TTL	2	3.5	.20		4	10	0.0	5.0	13n			10m	1.0	5	C	2		DL14m
27#	ZN54107F		TTL	2	3.5	.20		4	10	0.0	5.0	13n			10m	1.0	5	C	2		TO86
28#	ZN74107E		TTL	2	3.5	.20		4	10	0.0	5.0	13n			10m	1.0	0	7	2		DL14m
29#	ZN74107F		TTL	2	3.5	.20		4	10	0.0	5.0	13n			10m	1.0	0	7	2		TO86
30#	HD74ALS109		TTL	2.0	2.0	.8	30MS	4	10	0.0	5.0	13n				0.4	0	7	2		DL16j
31	SN54ALS109J#mil		TTL	2.0	2.0	.8	30MS	4	10	0.0	5.0	13n				0.4	5	C	1	74-109	DL16j
32	SN74ALS109J		TTL	2.0	2.0	.8	30MS	4	10	0.0	5.0	20n				0.3	0	7	1	74-109N	DL16j
33	SN74ALS109N		TTL	2.0	2.0	.8	30MS	4	10	0.0	5.0	20n				0.3	0	7	1	74-109N	DL16j
34	DM75L12F		TTL	2.8	2.0	.70	10MS†	10	0.0	5.0	120n				22m%		5	C	1	75-12	FP88b
35	DM75L12J		TTL	2.8	2.0	.70	10MS†	10	0.0	5.0	120n				22m%		5	C	1	75-12	DL16ai
36	DM75L12N		TTL	2.8	2.0	.70	10MS†	10	0.0	5.0	120n				22m%		5	C	1	75-12	DL16bu
37	DM85L12F		TTL	2.8	2.0	.70	10MS†	10	0.0	5.0	120n				22m%		0	7	1	75-12	FP88b
38	DM85L12J		TTL	2.8	2.0	.70	10MS†	10	0.0	5.0	120n				22m%		0	7	1	75-12	DL16ai
39	DM85L12N		TTL	2.8	2.0	.70	10MS†	10	0.0	5.0	120n				22m%		0	7	1	75-12	DL16bu
40	DM7512J		TTL	2.8	2.0	.80	28MS†	10	0.0	5.0	40n				285m%		5	C	1	75-12	DL16ai
41	DM7512N		TTL	2.8	2.0	.80	28MS†	10	0.0	5.0	40n				285m%		5	C	1	75-12	DL16bu
42	DM7512W		TTL	2.8	2.0	.80	28MS†	10	0.0	5.0	40n				285m%		0	7	1	75-12	FP88a
43	DM8512W		TTL	2.8	2.0	.80	28MS†	10	0.0	5.0	40n				285m%		0	7	1	75-12	FP88a
44	SN74104J		TTL	2F	1.7	.90		10	10	0.0	5.0	25n			120m%		0	7	1	74-104N	DL14ad
45	SN74104N		TTL	2F	1.7	.90		10	10	0.0	5.0	25n			120m%		0	7	1	74-104N	DL14n
46	SN74105J		TTL	2F	1.7	.90		10	10	0.0	5.0	25n			140m%		0	7	1	74-105N	DL14ad
47	SN74105N		TTL	2F	1.7	.90		10	10	0.0	5.0	25n			140m%		0	7	1	74-105N	DL14n
48	SN54L72J		TTL	2F	2.0	.70	3.0M†\$	9	20	0.0	5.0	200n				1.0 †	5	C	1	74L71N	DL14af
49	SN54L72W		TTL	2F	2.0	.70	3.0M†\$	9	20	0.0	5.0	200n			8.0m†	1.0 †	5	C	1	54L71T	FP52e
50	SN54L73J		TTL	2F	2.0	.70	3.0M†\$	4	20	0.0	5.0	200n			7.2m	1.0 †	5	C	2	74-73N	DL14af
51	SN54L73W		TTL	2F	2.0	.70	3.0M†\$	8	10	0.0	5.0	200n			7.2m	1.0 †	5	C	2	54-73W	FP52e
52	SN54L78J		TTL	2F	2.0	.70	3.0M†\$	5	20	0.0	5.0	200n			7.2m	1.0 †	5	C	2	74L78N	DL14af
53	SN54L78W		TTL	2F	2.0	.70	3.0M†\$	5	20	0.0	5.0	200n			7.2m	1.0 †	5	C	2	B02-154	FP52e
54	5470FM		TTL	2F	2.0	.80	35M†\$	9	10	0.0	5.0	50n			130m	400m*	5	C	1	54-70W	FP52
55	5472DM		TTL	2F	2.0	.80	20M†\$	9	10	0.0	5.0	40n			50m†	400m*	5	C	1	74L71N	TO116
56	5472FM		TTL	2F	2.0	.80	20M†\$	9	10	0.0	5.0	40n			50m†	400m*	5	C	1	54L71T	FP52
57	7470PC		TTL	2F	2.0	.80	35M†\$	9	10	0.0	5.0	50n			130m	400m*	0	7	1	74-70N	DL14ce
58	7472DC		TTL	2F	2.0	.80	20M†\$	9	10	0.0	5.0	40n			50m†	400m*	0	7	1	74L71N	TO116
59	7472PC		TTL	2F	2.0	.80	20M†\$	9	10	0.0	5.0	40n			50m†	400m*	0	7	1	74L71N	DL14ce
60	DM5470J		TTL	2F	2.0	.80	20M†\$	9	0.0	5.0	50n			130m%		5	C	1	74-70N	DL14ax	
61	DM5470W		TTL	2F	2.0	.80	20M†\$	9	0.0	5.0	50n			130m%		5	C	1	54-70W	FP97a	
62	DM5472J		TTL	2F	2.0	.80	27M††	9	0.0	5.0	45n			85m%		5	C	1	74L71N	DL14ax	
63	DM5472W		TTL	2F	2.0	.80	27M††	9	0.0	5.0	45n			85m%		5	C	1	54L71T	FP97a	
64	DM7470N		TTL	2F	2.0	.80	20M†\$	9	0.0	5.0	50n			130m%		0	7	1	74-70N	DL14bt	
65	DM7472N		TTL	2F	2.0	.80	27M††	9	0.0	5.0	45n			85m%		0	7	1	74L71N	DL14bt	
66#	M53270P		TTL	2F	2.0	.80	35M†	9	20	0.0	7.0	22n			65m†	1.0 †	0	7	1	74-70N	DL14d
67#	M53272P		TTL	2F	2.0	.80	15M†	9	20	0.0	7.0	30n			40m†	1.0 †	0	7	1	74L71N	DL14d
68#	SFC472E		TTL	2F	2.0	.80	15M†	9	10	0	7	50n			40m†	400m*	0	7	1	74L71N	TO116
69#	SFC472EM		TTL	2F	2.0	.80	20M†\$	9	10	0.0	5.0	40n			50m†	1.0 †	5	C	1	74L71N	TO116
70#	SFC472ET		TTL	2F	2.0	.80	20M†\$	9	10	0.0	5.0	40n			50m†	1.0 †	2	8	1	74L71N	TO116
71#	SFC473E		TTL	2F	2.0	.80	15M†	4	10	0.0	7.0	50n			40m	400m*	0	7	2	74-73N	TO116
72	SN5470J		TTL	2F	2.0	.80	35M†\$	9	10	0.0	5.0	50n			130m	1.0 †	5	C	1	74-70N	DL14af
73	SN5470W		TTL	2F	2.0	.80	35M†\$	9	10	0.0	5.0	50n			130m	1.0 †	5	C	1	54-70W	MO004AA
74	SN5472J		TTL	2F	2.0	.80	20M†\$	9	10	0.0	5.0	40n			50m†	1.0 †	5	C	1	74L71N	DL14af
75	SN5472W		TTL	2F	2.0	.80	20M†\$	9	10	0.0	5.0	40n			50m†	1.0 †	5	C	1	54L71T	MO004AA
76	SN7470J		TTL	2F</																	

4. BINARY/FLIP-FLOPS

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC (4) LOGIC (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE	LOGIC LEVEL		MAX. OPER. FREQ. (Hz)	FAN		POWER SUPPLY SPAN		PROP. DELAY (S)	MAXIMUM			MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS	
					MIN. '1' (V)	MAX. '0' (V)		IN	OUT MAX	NEG (V)	POS. (V)		RISE TIME (S)	FALL TIME (S)	LOGIC OR BLOCK					OUTLINE	
1	RF31CJ		TTL	4	3.4	.20	15MT	4	7	0.0	5.0				30m†	1.1	5	1	B04-42	FP52j	
2	RF31CK		TTL	4	3.4	.20	15MT	4	7	0.0	5.0				30m†	1.1	5	1	B04-42	FP52k	
3	RF31DC		TTL	4	3.4	.20	15MT	4	7	0.0	5.0				30m†	1.1	5	1	B04-42	DL14be	
4	54LS273DM		TTL	5	2.0 *	.70	30M†	4	10	0.0	5.0	27n			135n		5	8	74-273N	DL20n	
5	54LS273FM		TTL	5	2.0 *	.70	30M†	4	10	0.0	5.0	27n			135n		5	8	54LS273W	FP144	
6	74LS273DC		TTL	5	2.0 *	.80	30M†	4	0	0.0	5.0	27n			135n		5	8	74-273N	DL20n	
7	74LS273PC		TTL	5	2.0 *	.80	30M†	4	0	0.0	5.0	27n			135n		5	8	74-273N	DL20c	
8	SN74LS534J		TTL	5.8	2.0 * ‡	0.8	50M\$	8	8	0.0	5.0	30n	15n#			0.4	0	7	74LS534	DL20j	
9	SN74LS534N		TTL	5.8	2.0 * ‡	0.8	50M\$	8	8	0.0	5.0	30n	15n#			0.4	0	7	74LS534	DL20j	
10	54LS377DM		TTL	5.8	2.0 *	.80	30M†	6	10	0.0	5.0	25n			140m		5	3	74LS377N	DL20n	
11	54LS377FM		TTL	5.8	2.0 *	.80	30M†	6	10	0.0	5.0	25n			140m		5	3	54LS377W	FP144	
12	54LS378DM		TTL	5.8	2.0 *	.80	30M†	4	10	0.0	5.0	27n			110m		5	6	B08-117	DL16cj	
13	54LS378FM		TTL	5.8	2.0 *	.80	30M†	4	10	0.0	5.0	27n			110m		5	6	54LS378W	FP93c	
14	74LS377DC		TTL	5.8	2.0 *	.80	30M†	6	0	0.0	5.0	25n			140m		0	7	74LS377N	DL20n	
15	74LS378DC		TTL	5.8	2.0 *	.80	30M†	4	0	0.0	5.0	27n			110m		0	7	74LS378N	DL16cj	
16	74LS378PC		TTL	5.8	2.0 *	.80	30M†	4	0	0.0	5.0	27n			110m		0	7	74LS378N	DL20c	
17	SN54LS173AJ		TTL	5.8	2.0 * ‡	.80	50M†	8	8	0.0	5.0	18n			95m†		5	1	74-173N	DLj	
18	SN54LS173AW		TTL	5.8	2.0 * ‡	.80	50M†	8	8	0.0	5.0	18n			95m†		5	1	54-173	DLj	
19	SN74LS173AJ		TTL	5.8	2.0 * ‡	.80	50M†	8	8	0.0	5.0	18n			95m†		0	7	74-173N	DLj	
20	SN74LS173AN		TTL	5.8	2.0 * ‡	.80	50M†	8	8	0.0	5.0	18n			95m†		0	7	74-173N	DLj	
21	SN54LS534J		TTL	5.8	2.0 * ‡	0.7	50M\$	8	8	0.0	5.0	30n	15n#			0.4	5	8	74LS534	DL20j	
22	SN54S534J		TTL	5.8	2.0 * ‡	0.8	100m\$	8	8	0.0	5.0	20n	15n#			0.4	5	8	B08-150	DL20j	
23	SN74S532J		TTL	5.8	2.0 * ‡	0.8	100m\$	8	8	0.0	5.0	17n	6.0n#			0.4	0	7	808-150A	DL20j	
24	SN74S532N		TTL	5.8	2.0 * ‡	0.8	100m\$	8	8	0.0	5.0	17n	6.0n#			0.4	0	7	808-150A	DL20j	
25	SN74S534J		TTL	5.8	2.0 * ‡	0.8	100m\$	8	8	0.0	5.0	20n	15n#			0.4	0	7	74LS534	DL20j	
26	SN74S534N		TTL	5.8	2.0 * ‡	0.8	100m\$	8	8	0.0	5.0	20n	15n#			0.4	0	7	74LS534	DL20j	
27	SN74S536J		TTL	5.8	2.0 * ‡	0.8	100m\$	8	8	0.0	5.0	20n	6.0n#			0.4	0	7	808-150	DL20j	
28	SN74S536N		TTL	5.8	2.0 * ‡	0.8	100m\$	8	8	0.0	5.0	20n	6.0n#			0.4	0	7	808-150	DL20j	
29#	M74LS173AP		TTL	5.8	2.0 * ‡	.80	50M†	6	0	0.0	5.0	18m			95m†		0	7	1	74-173N	DLj
30	74LS377PC		TTL	5.8	2.00*	.80	30M†	6	0	0.0	5.0	251n			140m		0	7	3	74LS377N	DL20c
31#	M74LS174P		TTL	8	2.0 *	.70	45M	3	5	0.0	5.0	14n			80m		2	7	2	74-74N	DL16db
32	54LS74DM		TTL	8	2.0 *	.70		3	5	0.0	5.0	26n			40m%	300m	5	2	4	74-74N	TO116
33	54LS74FM		TTL	8	2.0 *	.70		3	5	0.0	5.0	26n			40m%	300m	5	2	2	54S74W	TO86
34	54LS175DM		TTL	8	2.0 *	.70	2.5M*\$	3	10	0.0	5.0	30n			225m		5	4	4	74-175N	DL16cj
35	54LS175FM		TTL	8	2.0 *	.70	2.5M*\$	3	10	0.0	5.0	30n			225m		5	4	4	54-175W	FP93c
36	74LS175DC		TTL	8	2.0 *	.70	2.5M*\$	3	0	0.0	5.0	30n			225m		0	7	4	74-175N	DL16cj
37	74LS175PC		TTL	8	2.0 *	.70	2.5M*\$	3	0	0.0	5.0	30n			225m		0	7	4	74-175N	DL16cj
38	DM54174J		TTL	8	2.0 *	.70	11MT†	4	20	0.0	5.0	120n			10m†		5	2	2	74-74N	DL14ax
39	DM74174N		TTL	8	2.0 *	.70	11MT†	4	20	0.0	5.0	120n			10m†		0	7	2	74-74N	DL14bt
40	DM75L11D		TTL	8	2.0 *	.70	9.0M\$†	10	0.0	0.0	5.0	125n			18m†		5	1	1	75-11N	DL16bz
41	DM75L11F		TTL	8	2.0 *	.70	9.0M\$†	10	0.0	0.0	5.0	125n			18m†		5	1	1	75-11N	FP88b
42	DM75L11N		TTL	8	2.0 *	.70	9.0M\$†	10	0.0	0.0	5.0	125n			18m†		5	1	1	75-11N	DL16bz
43	DM85L11D		TTL	8	2.0 *	.70	9.0M\$†	10	0.0	0.0	5.0	125n			18m†		0	7	1	75-11N	DL16bz
44	DM85L11F		TTL	8	2.0 *	.70	9.0M\$†	10	0.0	0.0	5.0	125n			18m†		0	7	1	75-11N	FP88b
45	DM85L11N		TTL	8	2.0 *	.70	9.0M\$†	10	0.0	0.0	5.0	125n			18m†		0	7	1	75-11N	DL16bu
46	JANM38510/02105BAA		TTL	8	2.0 *	.70	2.5M\$*	4	10	0.0	5.5	200n			22m		5	2	2	54-74W	FP115
47	JANM38510/02105BAC		TTL	8	2.0 *	.70	2.5M\$*	4	10	0.0	5.5	200n			22m		5	2	2	54-74W	FP115
48	JANM38510/02105BCA		TTL	8	2.0 *	.70	2.5M\$*	4	10	0.0	5.5	200n			22m		5	2	2	74-74N	DL14bo
49	JANM38510/02105BCB		TTL	8	2.0 *	.70	2.5M\$*	4	10	0.0	5.5	200n			22m		5	2	2	74-74N	DL14bo
50	JANM38510/02105BDA		TTL	8	2.0 *	.70	2.5M\$*	4	10	0.0	5.5	200n			22m		5	2	2	54-74W	FP116
51	JANM38510/02105BDB		TTL	8	2.0 *	.70	2.5M\$*	4	10	0.0	5.5	200n			22m		5	2	2	54-74W	FP116
52	JANM38510/02105CAA		TTL	8	2.0 *	.70	2.5M\$*	4	10	0.0	5.5	200n			22m		5	2	2	54-74W	FP115
53	JANM38510/02105CAC		TTL	8	2.0 *	.70	2.5M\$*	4	10	0.0	5.5	200n			22m		5	2	2	54-74W	FP115
54	JANM38510/02105CCA		TTL	8	2.0 *	.70	2.5M\$*	4	10	0.0	5.5	200n			22m		5	2	2	74-74N	DL14bo
55	JANM38510/02105CCB		TTL	8	2.0 *	.70	2.5M\$*	4	10	0.0	5.5	200n			22m		5	2	2	74-74N	DL14bo
56	JANM38510/02105CDA		TTL	8	2.0 *	.70	2.5M\$*	4	10	0.0	5.5	200n			22m		5	2	2	54-74W	FP116
57	JANM38510/02105CDB		TTL	8	2.0 *	.70	2.5M\$*	4	10	0.0	5.5	200n			22m		5	2	2	54-74W	FP116
58	JANM38510/07105BEB		TTL	8	2.0 *	.70	55M\$*	3	10b	0.0	5.0	29n			792m	250m*	5	6	6	54-174	DL16br
59	JANM38510/07105BFB		TTL	8	2.0 *	.70	55M\$*	3	10b	0.0	5.0	29n			792m	250m*	5	6	6	54-174	FP117
60	JANM38510/07105CEB		TTL	8	2.0 *	.70	55M\$*	3	10b	0.0	5.0	29n			792m	250m*	5	6	6	54-174	DL16br
61	JANM38510/07105CFB		TTL	8	2.0 *	.70	55M\$*	3	10b	0.0	5.0	29n			792m	250m*	5	6	6	54-174	FP117
62	JANM38510/30102BAA		TTL	8	2.0 *	.70	20M\$*	4	11d	0.0	5.5	59n			50m	300m*	5	2	2	54S74W	FP115
63	JANM38510/30102BAB		TTL	8	2.0 *	.70	20M\$*	4	11d	0.0	5.5	59n			50m	300m*	5	2	2	54S74W	FP115
64	JANM38510/30102BAC		TTL	8	2.0 *	.70	20M\$*	4	11d	0.0	5.5	59n			50m	300m*	5	2	2	74-74N	DL14bo
65	JANM38510/30102BCA		TTL	8	2.0 *	.70	20M\$*	4	11d	0.0	5.5	59n			50m	300m*	5	2	2	74-74N	DL14bo
66	JANM38510/30102BCB		TTL	8	2.0 *	.70	20M\$*	4	11d	0.0	5.5	59n			50m	300m*	5	2	2	54S74W	FP116
67	JANM38510/30102BDA		TTL	8	2.0 *	.70	20M\$*	4	11d	0.0	5.5	59n			50m	300m*	5	2	2	54S74W	FP116
68	JANM38510/30102BDB		TTL	8	2.0 *	.70	20M\$*	4	11d	0.0	5.5	59n			50m	300m*	5	2	2	54S74W	FP115
69	JANM38510/30102CAA		TTL	8	2.0 *	.70	20M\$*	4	11d	0.0	5.5	59n			50m	300m*	5	2	2	54S74W	FP115
70	JANM38510/30102CAB		TTL	8	2.0 *	.70	20M\$*	4	11d	0.0	5.5	59n			50m	300m*	5	2	2	54S74W	FP115
71	JANM38510/30102CAC		TTL	8	2.0 *	.70	20M\$*	4	11d	0.0	5.5	59n			50m	300m*	5	2	2	54S74W	FP115
72	JANM38510/30102CCA		TTL	8	2.0 *	.70	20M\$*	4	11d	0.0	5.5	59n			50m	300m*	5	2	2	74-74N	DL14bo

4. BINARY/FLIP-FLOPS

IN ORDER OF (1) TECHNOLOGY (2) TYPE (3) LOGIC (4) LOGIC TYPE (5) TYPE NO.

LINE NO.	TYPE NO.	DATA SHT.	TECH	TYPE	LOGIC LEVEL		MAX. OPER. FREQ. (Hz)	FAN IN		POWER SUPPLY SPAN (V)	PROP. DELAY (S)	MAXIMUM			MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS		
					3 MIN. (V)	4 MAX. (V)		IN	OUT MAX			RISE TIME (S)	FALL TIME (S)	MAX. RISE TIME (S)					MAX. FALL TIME (S)	LOGIC OR BLOCK	OUTLINE
1	SN54LS74AW		TTL	8	2.0	7.0	25M*	4	11	0.0	5.0	40n			40m		5	C	2	54S74W	FP97a
2	SN54LS374J#		TTL	8	2.0	7.0	50M†			0.0	5.0						5	C	2	74LS364N	DL20b
3	SN54S374J#		TTL	8	2.0	7.0	50M†			0.0	5.0						5	C	8	74LS364N	DL20b
4	SN74LS74AJ		TTL	8	2.0	7.0	25M*	4	11	0.0	5.0	40n			40m		0	7	2	74-74N	DL14af
5	SN74LS74AN		TTL	8	2.0	7.0	25M*	4	11	0.0	5.0	40n			40m		0	7	2	74-74N	MO001AA
6#	T54LS74D2		TTL	8	2.0	7.0		3	11d	0.0	5.0	26n			40m% 300m		0	5	2	74-74N	DL14av
7	54F74DM		TTL	8	2.0	8.0	125M†			0.0	5.0	5.2n	2.0nΔ	3.0n			5	C	2	74-74N	TO116
8	54F74FM		TTL	8	2.0	8.0	125M†			0.0	5.0	5.2n	2.0nΔ	3.0n			5	C	2	54-74W	TO86
9	54F175DM		TTL	8	2.0	8.0	150M†			0.0	5.0	6.2n	3.0nΔ	3.0n			5	C	4	74-175N	DL16ad
10	54F175FM		TTL	8	2.0	8.0	150M†			0.0	5.0	6.2n	3.0nΔ	3.0n			5	C	4	54-175W	FP101
11	54F374DM		TTL	8	2.0	8.0	110M†			0.0	5.0	5.5n	2.0n	2.0n			5	C	8	B08-115	DL20n
12	54F374FM		TTL	8	2.0	8.0	110M†			0.0	5.0	5.5n	2.0n	2.0n			5	C	8	54S374W	FP144
13	54F534DM		TTL	8	2.0	8.0	100M†			0.0	5.0	5.5n	2.0n	2.0n			5	C	8	74LS534N	DL20n
14	54F534FM		TTL	8	2.0	8.0	100M†			0.0	5.0	5.5n	2.0n	2.0n			5	C	8	54LS534W	FP144
15	54H74DM		TTL	8	2.0	8.0	35M\$†	4	20	0.0	5.0	30n			150m†	400m*	5	C	2	74-74N	TO116
16	54H74FM		TTL	8	2.0	8.0	35M\$†	4	20	0.0	5.0	30n			150m†	400m*	5	C	2	54-74W	FP21h
17	54LS374DM		TTL	8	2.0	8.0	35M†	5	15	0.0	5.0	28n			225m		5	C	8	74LS364N	DL20n
18	54LS374FM		TTL	8	2.0	8.0	35M†	5	15	0.0	5.0	28n			225m		5	C	8	54S374W	FP144
19	54LS534DM		TTL	8	2.0	8.0	35M†	2	65	0.0	5.0	28n			225m		5	C	4	74LS534N	DL20n
20	54LS534FM		TTL	8	2.0	8.0	35M†	2	65	0.0	5.0	28n			225m		5	C	4	54LS534	FP144
21	54LS564DM		TTL	8	2.0	8.0	35M†	3	65	0.0	5.0	28n			225m		5	C	8	74LS564N	DL20n
22	54LS564FM		TTL	8	2.0	8.0	35M†	3	65	0.0	5.0	28n			225m		5	C	8	54LS564W	FP144
23	54LS574DM		TTL	8	2.0	8.0	35M†	3	65	0.0	5.0	28n			200m		5	C	8	74LS574N	DL20n
24	54LS574FM		TTL	8	2.0	8.0	35M†	3	65	0.0	5.0	28n			200m		5	C	8	54LS574W	FP144
25	54S74DM		TTL	8	2.0	8.0	110M\$†	4	20	0.0	5.0	9.0n			150m†	300m*	5	C	2	74-74N	TO116
26	54S74FM		TTL	8	2.0	8.0	110M\$†	4	20	0.0	5.0	9.0n			150m†	300m*	5	C	2	54S74W	FP21h
27	54S175DM		TTL	8	2.0	8.0	2.5M*\$	3	25	0.0	5.0	30n			225m		5	C	4	74-175N	DL16ci
28	54S175FM		TTL	8	2.0	8.0	2.5M*\$	3	25	0.0	5.0	30n			225m		5	C	4	54-175W	FP93c
29	74F74DC		TTL	8	2.0	8.0	125M†			0.0	5.0	5.2n	2.0nΔ	3.0n			0	7	2	74-74N	TO116
30	74F74PC		TTL	8	2.0	8.0	125M†			0.0	5.0	5.2n	2.0nΔ	3.0n			0	7	2	74-74N	TO116
31	74F175DC		TTL	8	2.0	8.0	150M†			0.0	5.0	6.2n	3.0nΔ				0	7	4	74-175N	DL16ad
32	74F175PC		TTL	8	2.0	8.0	150M†			0.0	5.0	6.2n	3.0nΔ				0	7	4	74-175N	*
33	74F374DC		TTL	8	2.0	8.0	110M†			0.0	5.0	5.5n	2.0n	2.0n			0	7	8	74LS364N	DL20n
34	74F374PC		TTL	8	2.0	8.0	110M†			0.0	5.0	5.5n	2.0n	2.0n			0	7	8	74LS364N	DL20c
35	74F534DC		TTL	8	2.0	8.0	100M†			0.0	5.0	5.5n	2.0n	2.0n			0	7	8	74LS534N	DL20n
36	74F534PC		TTL	8	2.0	8.0	110M†			0.0	5.0	5.5n	2.0n	2.0n			0	7	8	74LS534N	DL20c
37	74H74DC		TTL	8	2.0	8.0	35M\$†	4	20	0.0	5.0	30n			150m†	400m*	0	7	2	74-74N	TO116
38	74H74PC		TTL	8	2.0	8.0	35M\$†	4	20	0.0	5.0	30n			125m	400m*	0	7	2	74-74N	DL14ce
39	74LS374DC		TTL	8	2.0	8.0	35M†	5	15	0.0	5.0	28n			225m		5	7	8	B08-115	DL20n
40	74LS374PC		TTL	8	2.0	8.0	35M†	5	15	0.0	5.0	28n			225m		0	7	8	B08-115	DL20c
41	74LS534DC		TTL	8	2.0	8.0	35M†	2	15	0.0	5.0	28n			225m		0	7	4	74LS534N	DL20n
42	74LS534PC		TTL	8	2.0	8.0	35M†	2	15	0.0	5.0	28n			225m		0	7	4	74LS534N	DL20c
43	74S74DC		TTL	8	2.0	8.0	110M\$†	4	20	0.0	5.0	9.0n			150m†	300m*	0	7	2	74-74N	TO116
44	74S74PC		TTL	8	2.0	8.0	110M\$†	4	20	0.0	5.0	9.0n			150m†	300m*	0	7	2	74-74N	DL14ce
45	74S175DC		TTL	8	2.0	8.0	2.5M*\$	3	12	0.0	5.0	30n			225m		0	7	4	74-175N	DL16ci
46	74S175PC		TTL	8	2.0	8.0	2.5M*\$	3	12	0.0	5.0	30n			225m		0	7	4	74-175N	*
47	5474DM		TTL	8	2.0	8.0	25M\$†	4	10	0.0	5.0	40n			43m	400m*	5	C	2	74-74N	TO116
48	5474FM		TTL	8	2.0	8.0	25M\$†	4	10	0.0	5.0	40n			43m	400m*	5	C	2	54-74W	FP52
49	7474DC		TTL	8	2.0	8.0	25M\$†	4	10	0.0	5.0	40n			43m	400m*	0	7	2	74-74N	TO116
50	7474PC		TTL	8	2.0	8.0	25M\$†	4	10	0.0	5.0	40n			43m	400m*	0	7	2	74-74N	DL14ce
51#	7475PC		TTL	8	2.0	8.0		4	10	0.0	5.0	40n			265m		0	7	1	74-75N	*
52	54175DM		TTL	8	2.0	8.0	2.5M*\$	3	20	0.0	5.0	30n			225m		5	C	4	74-175N	DL16cj
53	54175FM		TTL	8	2.0	8.0	2.5M*\$	3	20	0.0	5.0	30n			225m		5	C	4	54-175W	FP93c
54	74175DC		TTL	8	2.0	8.0	2.5M*\$	3		0.0	5.0	30n			225m		0	7	4	74-175N	DL16cp
55	74175PC		TTL	8	2.0	8.0	2.5M*\$	3		0.0	5.0	30n			225m		0	7	4	74-175N	*
56	Am28120		TTL	8	2.0	8.0	40M\$			0.0	5.0	35n					0	7	8	B08-131	DL7
57	DM54H74J		TTL	8	2.0	8.0		4	10	0.0	5.0	30n			250m%		0	7	2	74-74N	DL14ax
58	DM74H74N		TTL	8	2.0	8.0		4	10	0.0	5.0	30n			250m%		2	7	2	74-74N	DL14bt
59	DM74S74N		TTL	8	2.0	8.0	110M\$†	4	10	0.0	5.0	9.0n			150m†		0	7	2	74-74N	DL14bt
60	DM5474J		TTL	8	2.0	8.0	35M\$†	4	10	0.0	5.0	40n			30m%		5	C	2	74-74N	DL14ax
61	DM5474W		TTL	8	2.0	8.0	35M\$†	4	10	0.0	5.0	40n			30m%		5	C	2	54-74W	FP97a
62	DM7474N		TTL	8	2.0	8.0	35M\$†	4	10	0.0	5.0	40n			30m%		0	7	2	74-74N	DL14bt
63	DM7511J		TTL	8	2.0	8.0	45M\$†	5		0.0	5.0	30n			275m%		5	C	2	75-11N	DL16ai
64	DM7511N		TTL	8	2.0	8.0	45M\$†	5		0.0	5.0	30n			275m%		5	C	2	75-11N	DL16bu
65	DM7511W		TTL	8	2.0	8.0	45M\$†	5		0.0	5.0	30n			275m%		5	C	2	75-11N	FP88a
66	DM8511J		TTL	8	2.0	8.0	45M\$†	5		0.0	5.0	30n			275m%		0	7	2	B08-72	DL16ai
67	DM8511N		TTL	8	2.0	8.0	45M\$†	5		0.0	5.0	30n			275m%		0	7	2	B08-72	DL16bu
68	DM8511W		TTL	8	2.0	8.0	45M\$†	5		0.0	5.0	30n			275m%		0	7	2	B08-72	FP88a
69#	FJJ131-7474		TTL	8	2.0	8.0	15M	4	10	0.0	5.0	50n			85m†	1.0 †	0	7	2	74-73N	DL14s
70#	HD74LS74A		TTL	8	2.0	8.0	25M			0.0	5.0	19n			400m	300m	2	7	2		DL14cz
71#	HD74LS74AP		TTL	8	2.0	8.0	25M			0.0	5.0	19n			400m	300m	2	7	2		DL14cz
72#	HD74LS75		TTL	8	2.0	8.0	30M	6		0.0	5.0	20n			400m	300m	2	7	4	B08-149	DL16bc
73#	HD74LS75P		TTL	8	2.0	8.0	30M	6		0.0	5.0	20n			400m	300m	2	7	4	B08-149	DL16bc
74#	HD74LS174		TTL	8	2.0	8.0	30M	8</													

4. BINARY/FLIP-FLOPS

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC*1
(4) LOGIC*2 (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE	LOGIC LEVEL		MAX. OPER. FREQ. (Hz)	FAN		POWER SUPPLY SPAN		PROP. DELAY (S)	RISE TIME (S)	FALL TIME (S)	MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS		
					3 MIN. 1" (V)	4 MAX. 1" (V)		IN	OUT MAX	NEG (V)	POS. (V)								LOGIC OR BLOCK	OUTLINE	
1	JANM38510/01701BEA		TTL	8	2.0 *	.80	25M\$*	8	10	0.0	5.5	50n			438m	5	C	6	74-174N	DL16br	
2	JANM38510/01701BEB		TTL	8	2.0 *	.80	25M\$*	8	10	0.0	5.5	50n			438m	5	C	6	74-174N	DL16br	
3	JANM38510/01701BFA		TTL	8	2.0 *	.80	25M\$*	8	10	0.0	5.5	50n			438m	5	C	6	54-174W	FP117	
4	JANM38510/01701BFB		TTL	8	2.0 *	.80	25M\$*	8	10	0.0	5.5	50n			438m	5	C	6	54-174W	FP117	
5	JANM38510/01701CEA		TTL	8	2.0 *	.80	25M\$*	8	10	0.0	5.5	50n			438m	5	C	6	74-174N	DL16br	
6	JANM38510/01701CEB		TTL	8	2.0 *	.80	25M\$*	8	10	0.0	5.5	50n			438m	5	C	6	74-174N	DL16br	
7	JANM38510/01701CFA		TTL	8	2.0 *	.80	25M\$*	8	10	0.0	5.5	50n			438m	5	C	6	54-174W	FP117	
8	JANM38510/01701CFB		TTL	8	2.0 *	.80	25M\$*	8	10	0.0	5.5	50n			438m	5	C	6	54-174W	FP117	
9	JANM38510/01702BEA		TTL	8	2.0 *	.80	25M\$*	8	10	0.0	5.5	50n			438m	5	C	6	54-174W	FP117	
10	JANM38510/01702BEB		TTL	8	2.0 *	.80	25M\$*	8	10	0.0	5.5	50n			260m	5	C	4	74-175N	DL16br	
11	JANM38510/01702BFA		TTL	8	2.0 *	.80	25M\$*	8	10	0.0	5.5	50n			260m	5	C	4	74-175N	DL16br	
12	JANM38510/01702BFB		TTL	8	2.0 *	.80	25M\$*	8	10	0.0	5.5	50n			260m	5	C	4	54-175W	FP117	
13	JANM38510/01702CEA		TTL	8	2.0 *	.80	25M\$*	8	10	0.0	5.5	50n			260m	5	C	4	54-175W	FP117	
14	JANM38510/01702CEB		TTL	8	2.0 *	.80	25M\$*	8	10	0.0	5.5	50n			260m	5	C	4	74-175N	DL16br	
15	JANM38510/01702CFA		TTL	8	2.0 *	.80	25M\$*	8	10	0.0	5.5	50n			260m	5	C	4	74-175N	DL16br	
16	JANM38510/01702CFB		TTL	8	2.0 *	.80	25M\$*	8	10	0.0	5.5	50n			260m	5	C	4	54-175W	FP117	
17	JANM38510/02203BCA		TTL	8	2.0 *	.80	25M\$*	8	10	0.0	5.5	50n			260m	5	C	4	54-175W	FP117	
18	JANM38510/02203BCB		TTL	8	2.0 *	.80	28M\$*	4	20	0.0	5.5	38n	15n#		274m	5	C	2	74-74N	DL14bo	
19	JANM38510/02203BDA		TTL	8	2.0 *	.80	28M\$*	4	20	0.0	5.5	38n	15n#		274m	5	C	2	74-74N	DL14bo	
20	JANM38510/02203BDB		TTL	8	2.0 *	.80	28M\$*	4	20	0.0	5.5	38n	15n#		274m	5	C	2	54-74W	FP116	
21	JANM38510/02203CCA		TTL	8	2.0 *	.80	28M\$*	4	20	0.0	5.5	38n	15n#		274m	5	C	2	54-74W	FP116	
22	JANM38510/02203CCB		TTL	8	2.0 *	.80	28M\$*	4	20	0.0	5.5	38n	15n#		274m	5	C	2	74-74N	DL14bo	
23	JANM38510/02203CDA		TTL	8	2.0 *	.80	28M\$*	4	20	0.0	5.5	38n	15n#		274m	5	C	2	74-74N	DL14bo	
24	JANM38510/02203CDB		TTL	8	2.0 *	.80	28M\$*	4	20	0.0	5.5	38n	15n#		274m	5	C	2	54-74W	FP116	
25	JANM38510/07001BCA		TTL	8	2.0 *	.80	55M\$*	4		0.0	5.5	19n			274m	5	C	2	74-00N	DL14bo	
26	JANM38510/07001BCB		TTL	8	2.0 *	.80	55M\$*	4		0.0	5.5	19n			274m	5	C	2	74-00N	DL14bo	
27	JANM38510/07001BDA		TTL	8	2.0 *	.80	55M\$*	4		0.0	5.5	19n			274m	5	C	2	74-00N	DL14bo	
28	JANM38510/07001BDB		TTL	8	2.0 *	.80	55M\$*	4		0.0	5.5	19n			274m	5	C	2	54S00W	FP116	
29	JANM38510/07001CCA		TTL	8	2.0 *	.80	55M\$*	4		0.0	5.5	19n			274m	5	C	2	54S00W	FP116	
30	JANM38510/07001CCB		TTL	8	2.0 *	.80	55M\$*	4		0.0	5.5	19n			274m	5	C	2	74-00N	DL14bo	
31	JANM38510/07001CDA		TTL	8	2.0 *	.80	55M\$*	4		0.0	5.5	19n			274m	5	C	2	74-00N	DL14bo	
32	JANM38510/07001CDB		TTL	8	2.0 *	.80	55M\$*	4		0.0	5.5	19n			274m	5	C	2	54S00W	FP116	
33	JANM38510/07101BAB		TTL	8	2.0 *	.80	55M\$*	4		0.0	5.5	19n			274m	5	C	2	54S00w	FP116	
34	JANM38510/07101BCA		TTL	8	2.0 *	.80	55M\$*	4	10b	0.0	5.5	19n			274m	250m*	5	C	2	54S74W	FP115
35	JANM38510/07101BCB		TTL	8	2.0 *	.80	55M\$*	4	10b	0.0	5.5	19n			274m	250m*	5	C	2	74-74N	DL14bo
36	JANM38510/07101BDA		TTL	8	2.0 *	.80	55M\$*	4	10b	0.0	5.5	19n			274m	250m*	5	C	2	74-74N	DL14bo
37	JANM38510/07101CAB		TTL	8	2.0 *	.80	55M\$*	4	10b	0.0	5.5	19n			274m	250m*	5	C	2	54S74W	FP115
38	JANM38510/07101CCA		TTL	8	2.0 *	.80	55M\$*	4	10b	0.0	5.5	19n			274m	250m*	5	C	2	54S74W	FP115
39	JANM38510/07101CCB		TTL	8	2.0 *	.80	55M\$*	4	10b	0.0	5.5	19n			274m	250m*	5	C	2	74-74N	DL14bo
40	JANM38510/07101CDA		TTL	8	2.0 *	.80	55M\$*	4	10b	0.0	5.5	19n			274m	250m*	5	C	2	74-74N	DL14bo
41#	M53274P		TTL	8	2.0 *	.80	25M1†	4	20	0.0	7.0	24n			274m	42m†	5	C	2	54S74W	FP116
42#	MB74LS74A		TTL	8	2.0 *	.80	25M*	4	20	0.0	5.0	40n			40m	1.0 †	0	7	2	74-74N	DL14d
43#	MB74LS74AM		TTL	8	2.0 *	.80	25M*	4	20	0.0	5.0	40n			40m		2	7	2	74-74N	DL14ai
44#	MB74LS174		TTL	8	2.0 *	.80	30M*	3	20	0.0	5.0	35n			156m		2	7	2	74-74	DL14bn
45#	MB74LS174M		TTL	8	2.0 *	.80	30M*	3	20	0.0	5.0	35n			156m		2	7	6	74-174N	DL16as
46#	MB74LS175		TTL	8	2.0 *	.80	30M*	3	20	0.0	5.0	35n			90m		2	7	6	74-174N	DL16cu
47#	MB74LS175M		TTL	8	2.0 *	.80	30M*	3	20	0.0	5.0	35n			90m		2	7	6	74-175N	DL16as
48#	MB420		TTL	8	2.0 *	.80	25M	4	10	0.0	5.0	10n			68m†		0	7	2		DL14aq
49#	MB420M		TTL	8	2.0 *	.80	25M	4	10	0.0	5.0	10n			68m†		0	7	2		DL14ac
50#	N74H74F		TTL	8	2.0 *	.80	35M\$*	4	20	0.0	5.0	30n			250m		0	7	2		DL14bh
51	N74H74N		TTL	8	2.0 *	.80	35M\$*	4	10	0.0	5.0	30n			250m		0	7	2	74-74N	DL14br
52	N74LS74AF		TTL	8	2.0 *	.80	25M\$*	4	20	0.0	5.0	40n			40m		0	7	2	74-74	DL14bh
53	N74LS74AN		TTL	8	2.0 *	.80	25M\$*	4	20	0.0	5.0	40n			40m		0	7	2	54-74	DL14br
54	N74S74N		TTL	8	2.0 *	.80	75M\$*	4	10	0.0	5.0	13n			250m		0	7	2	74-74	DL14br
55	N7474F		TTL	8	2.0 *	.80	15M\$*	4	10	0.0	5.0	40n			150m	1.0 †	0	7	2	74-74N	DL14bh
56	N7474N		TTL	8	2.0 *	.80	15M\$*	4	10	0.0	5.0	40n			150m	400m*	0	7	2	74-74N	DL14br
57	S54H74F		TTL	8	2.0 *	.80	35M\$*	4	10	0.0	5.0	30n			210m		5	C	2	74-74N	DL14bh
58	S54H74W		TTL	8	2.0 *	.80	35M\$*	4	10	0.0	5.0	30n			210m		5	C	2	54-74W	FP39e
59	S54S74F		TTL	8	2.0 *	.80	75M\$*	4	10	0.0	5.0	13n			250m	1.0 †	5	C	2	74-74N	DL14bh
60	S54S74W		TTL	8	2.0 *	.80	75M\$*	4	10	0.0	5.0	13n			250m	1.0 †	5	C	2	54S74W	FP39e
61	S5474F		TTL	8	2.0 *	.80	15M\$*	4	10	0.0	5.0	40n			150m	1.0 †	5	C	2	74-74N	DL14bh
62	S5474W		TTL	8	2.0 *	.80	15M\$*	4	10	0.0	5.0	40n			150m	1.0 †	5	C	2	54-74W	FP39e
63#	SFC474E		TTL	8	2.0 *	.80	25M†	4	20	0.0	5.25	40n			43m	1.0 †	0	7	2	74-74N	TO116
64#	SFC474EM		TTL	8	2.0 *	.80	25M†	4	20	0.0	5.5	40n			43m	1.0 †	5	C	2	74-74N	TO116
65#	SFC474ET		TTL	8	2.0 *	.80	25M†	4	20	0.0	5.25	40n			43m	1.0 †	2	8	2	74-74N	TO116
66#	SFC474EV		TTL	8	2.0 *	.80	25M†	4	20	0.0	5.25	40n			43m	1.0 †	4	8	2	74-74N	TO116
67#	SFC474HE		TTL	8	2.0 *	.80	35M\$*	4	10	0.0	5.0	30n			150m†		0	7	2	74-74N	TO116
68#	SFC474HEM		TTL	8	2.0 *	.80	35M\$*	4	10	0.0	5.0	30n			150m†		5	C	2	74-74N	TO116
69#	SFC474HPM		TTL	8	2.0 *	.80	35M\$*	4	10	0.0	5.0	30n			150m†		5	C	2	54-74W	TO85
70#	SFC474PM		TTL	8	2.0 *	.80	25M\$*	4	10	0.0	5.0	40n			150m†	1.0 †	5	C	2	54-74W	TO85

4. BINARY/FLIP-FLOPS

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC (4) LOGIC (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE	LOGIC LEVEL		MAX. OPER. FREQ. (Hz)	FAN		POWER SUPPLY SPAN (V)	PROP. DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	PKTS PER MOD	DRAWINGS		
					3 MIN. (V)	4 MAX. (V)		IN	OUT MAX			RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE	
1	SN54ALS74J		TTL	8	2.0	*.80	50M†			0.0	5.0	11n		6.0m†		5	C	2	74-74	DL2
2	SN54ALS74W		TTL	8	2.0	*.80	50M†			0.0	5.0	11n		6.0m†		5	C	2	54S74W	DL2
3	SN54H74J		TTL	8	2.0	*.80	35M†	4	20	0.0	5.0	30n		150m†		5	C	2	74-74N	DL14af
4	SN54H74W		TTL	8	2.0	*.80	35M†	4	20	0.0	5.0	30n		150m†		5	C	2	54-74W	MO004AA
5	SN54S74J		TTL	8	2.0	*.80	110M†	4	20	0.0	5.0	9.0n		150m†	1.0 †	5	C	2	54S74W	DL14af
6	SN54S74W		TTL	8	2.0	*.80	110M†	4	20	0.0	5.0	9.0n		150m†	1.0	5	C	2	54S74W	MO004AA
7	SN54S174J		TTL	8	2.0	*.80	110M†			0.0	5.0	10n	7.0n#			5	C	6	74-174N	DL16cd
8	SN54S174W		TTL	8	2.0	*.80	110M†			0.0	5.0	10n	7.0n#			5	C	6	54-174W	FPZ
9	SN54S175J		TTL	8	2.0	*.80	110M†			0.0	5.0	10n	7.0n#			5	C	4	74-175N	DL16cd
10	SN54S175W		TTL	8	2.0	*.80	110M†			0.0	5.0	10n	7.0n#			5	C	4	54-175W	FPZ
11	SN74ALS74J		TTL	8	2.0	*.80	50M†			0.0	5.0	11n		6.0m†		0	7	2	74-74N	DLZ
12	SN74ALS74N		TTL	8	2.0	*.80	50M†			0.0	5.0	11n		6.0m†		0	7	2	74-74N	DLZ
13	SN74H74J		TTL	8	2.0	*.80	35M†	4	20	0.0	5.0	30n		125m		0	7	2	74-74N	DL14af
14	SN74H74N		TTL	8	2.0	*.80	35M†	4	20	0.0	5.0	30n		125m		0	7	2	74-74N	DL14r
15	SN74LS374J#		TTL	8	2.0	*.80	50M†			0.0	5.0					0	7	8	74LS364N	DL20b
16	SN74LS374N		TTL	8	2.0	*.80	50M†			0.0	5.0					0	7	8	74LS364N	DL20o
17	SN74S74J		TTL	8	2.0	*.80	110M†	4	20	0.0	5.0	9.0n		150m†	1.0 †	0	7	2	74-74N	DL14af
18	SN74S74N		TTL	8	2.0	*.80	110M†	4	20	0.0	5.0	9.0n		150m†	1.0	0	7	2	74-74N	DL14r
19	SN74S174J		TTL	8	2.0	*.80	110M†			0.0	5.0	10n	7.0n#			0	7	6	74-174N	DL16cd
20	SN74S174N		TTL	8	2.0	*.80	110M†			0.0	5.0	10n	7.0n#			0	7	6	74-174N	DL16ce
21	SN74S175J		TTL	8	2.0	*.80	110M†			0.0	5.0	10n	7.0n#			0	7	4	74-175N	DL16cd
22	SN74S175N		TTL	8	2.0	*.80	110M†			0.0	5.0	10n	7.0n#			0	7	4	74-175	DL16ce
23	SN74S374J#		TTL	8	2.0	*.80	50M†			0.0	5.0			43m	1.0	0	7	8	74LS364N	DL20b
24	SN7474J		TTL	8	2.0	*.80	25M†	4	10	0.0	5.0	40n		43m	1.0	0	7	2	74-74N	DL14af
25	SN7474N		TTL	8	2.0	*.80	25M†	4	20	0.0	5.0	40n		43m	1.0	0	7	2	74-74N	DL14r
26#	T74LS74B1		TTL	8	2.0	*.80		3	22d	0.0	5.0	26n		40m%	300m	0	7	2	74-74N	DL14y
27#	T74LS74D1		TTL	8	2.0	*.80		3	22d	0.0	5.0	26n		40m%	300m	0	7	2	74-74N	DL14av
28	DM54L74W#mil		TTL	8	2.0	0.7	11M			0	8.0	60n			0.4	5	C	2	B08-16	FP97c
29	DM54L78W#mil		TTL	8	2.0	0.7	11M			0	8.0	75n			0.4	5	C	2	B02-266a	FP97c
30	DM75L11J#mil		TTL	8	2.0	0.7	45M					20n			0.4	5	C	2	B08-72	DL16au
31	DM75L11W#mil		TTL	8	2.0	0.7	45M					20n			0.4	5	C	2	B08-72	FP98b
32	DM75L12W#mil		TTL	8	2.0	0.7	28M					35n			0.4	5	C	2	B08-63a	FP98b
33	DM76L13J#mil		TTL	8	2.0	0.7	30M					24n			0.4	5	C	4	B08-156	DL16au
34	DM86L13N		TTL	8	2.0	0.7	30M					24n			0.4	0	7	4	B08-156	DL16a
35	S54LS74AF		TTL	8	2.0	0.7	25M	4	10	0.0	5.0	32n	15n	6n	0.4	5	C	2	74-74N	DL14bh
36	S54LS74AW		TTL	8	2.0	0.7	25M	4	10	0.0	5.0	32n	15n	6n	0.4	5	C	2	54S74N	FP39e
37#	S54LS173F		TTL	8	2.0	0.7	30M	4	10	0.0	5.0	28n	2.5n	2.5n	0.4	5	C	4	74-173	DL16ar
38#	S54LS173W		TTL	8	2.0	0.7	30M	4	10	0.0	5.0	28n	2.5n	2.5n	0.4	5	C	4	54-173	FP153
39	S54LS174F		TTL	8	2.0	0.7	30M	6	10	0.0	5.0	30n	15n	6n	0.4	5	C	6	74-174N	DL16ar
40	S54LS174W		TTL	8	2.0	0.7	30M	6	10	0.0	5.0	30n	15n	6n	0.4	5	C	6	54-174W	FP153
41	S54LS175F		TTL	8	2.0	0.7	30M	4	10	0.0	5.0	25n	15n	6n	0.4	5	C	4	74-175	DL16ar
42	S54LS175W		TTL	8	2.0	0.7	30M	4	10	0.0	5.0	25n	15n	6n	0.4	5	C	4	54-175W	FP153
43	S54LS273F		TTL	8	2.0	*.7	40M	8		0.0	5.0	27n				5	C	8	74-273N	DL20Z
44	S54LS364F		TTL	8	2.0	*.7	50M	8		0.0	5.0	33n				5	C	8	74LS364N	DL20Z
45	S54LS374F		TTL	8	2.0	*.7	35M*	8	0	5.0	5.0	19n				5	C	8	74LS364N	DL20Z
46	S54LS377F		TTL	8	2.0	*.7	40M	8		0.0	5.0	27n				5	C	8	74LS377N	DL20Z
47	S54LS378F		TTL	8	2.0	0.7	30M	6	10	0.0	5.0	27n	15n	6n	0.4	5	C	6	74LS378N	DL16ar
48	S54LS378W		TTL	8	2.0	0.7	30M	6	10	0.0	5.0	27n	15n	6n	0.4	5	C	6	54LS378W	FP153
49	DM54LS174J#mil		TTL	8	2.0	0.8	40M			0	7.0	29n		14m	0.4	5	C	6	54-174	DL16au
50	DM54LS174W#mil		TTL	8	2.0	0.8	40M			0	7.0	29n		14m	0.4	5	C	6	54-174	FP98b
51	DM54LS175J#mil		TTL	8	2.0	0.8	40M			0	7.0	29n		14m	0.4	5	C	6	B08-93	DL16au
52	DM54LS175W#mil		TTL	8	2.0	0.8	40M			0	7.0	29n		14m	0.4	5	C	6	B08-93	FP98b
53	DM54S174J#mil		TTL	8	2.0	0.8	110M			0	7.0	18n		75m	0.3	5	C	6	54-174	DL16au
54	DM54S174W#mil		TTL	8	2.0	0.8	110M			0	7.0	18n		75m	0.3	5	C	6	54-174	FP98b
55	DM54S175J#mil		TTL	8	2.0	0.8	110M			0	7.0	18n		75m	0.3	5	C	6	B08-93	DL16au
56	DM54S175W#mil		TTL	8	2.0	0.8	110M			0	7.0	18n		75m	0.3	5	C	6	B08-93	FP98b
57	DM74LS174N		TTL	8	2.0	0.8	40M			0	7.0	29n		14m	0.4	0	7	6	54-174	DL16a
58	DM74LS175N		TTL	8	2.0	0.8	40M			0	7.0	29n		14m	0.4	0	7	6	B08-93	DL16a
59	DM74S174N		TTL	8	2.0	0.8	110M			0	7.0	18n		75m	0.3	0	7	6	54-174	DL16a
60	DM74S175N		TTL	8	2.0	0.8	110M			0	7.0	18n		75m	0.3	0	7	6	B08-93	DL16a
61	DM76L13J#mil		TTL	8	2.0	0.8	30M					24n			0.4	5	C	4	B08-156	DL16au
62	DM76L13W#mil		TTL	8	2.0	0.8	30M					24n			0.4	5	C	4	B08-156	FP98b
63	DM86L13N		TTL	8	2.0	0.8	30M					24n			0.4	0	7	4	B08-156	DL16a
64	DM54174J#mil		TTL	8	2.0	0.8	40M			0	7.0	25n		38m	0.4	5	C	6	54-174	DL16au
65	DM54174W#mil		TTL	8	2.0	0.8	40M			0	7.0	25n		38m	0.4	5	C	6	54-174	FP98b
66	DM54175J#mil		TTL	8	2.0	0.8	40M			0	7.0	25n		38m	0.4	5	C	6	B08-93	DL16au
67	DM74174N		TTL	8	2.0	0.8	40M			0	7.0	25n		38m	0.4	0	7	6	54-174	DL16a
68	DM74175N		TTL	8	2.0	0.8	40M			0	7.0	25n		38m	0.4	0	7	6	B08-93	DL16a
69	MC54F74J(A)		TTL	8	2.0	0.8	100M			0.0	5.0	8.5n				5	C	2	74-74	DL14ci
70	MC54F74N(A)		TTL	8	2.0	0.8	100M			0.0	5.0	8.5n				5	C	2	74-74	DL14dg
71	MC54F175J(A)		TTL	8	2.0	0.8	100M			0.0	5.0	8.5n				5	C	4	74-175	DL16ao
72	MC54F175N(A)		TTL	8	2.0	0.8	100M			0.0	5.0	8.5n				5	C	4	74-175	DL16dp
73	MC54F374J(A)		TTL	8	2.0	0.8	60M			0.0	5.0	10n				5	C	8	74LS364	DL20g
74	MC54F374N(A)		TTL	8	2.0	0.8	60M			0.0	5.0	10n				5	C	8	74LS364	DL20h
75	MC74F74J(A)		TTL	8	2.0	0.8	100M			0.0	5.0	7.8n				0	7	2	74-74	DL14ci
76	MC74F74N(A)		TTL	8	2.0	0.8	100M			0.0	5.0	7.8n				0	7	2	74-74	DL14dg
77	MC74F175J(A)		TTL	8	2.0	0.8	100M			0.0	5.0	7.5n				0	7	4	74-175	DL16ao
78	MC74F175N(A)		TTL	8	2.0	0.8	100M			0.0										

4. BINARY/FLIP-FLOPS

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC '1'
(4) LOGIC '0' (5) TYPE NO.

LINE NO.	TYPE NO.	DATA SHT.	TECH	TYPE	LOGIC LEVEL		MAX. OPER. FREQ. (Hz)	FAN IN		POWER SUPPLY SPAN		PROP. DELAY (S)	MAXIMUM RISE TIME (S)		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE		CKTS PER MOD	DRAWINGS	
					3 MIN. '1' (V)	4 MAX. '0' (V)		IN	OUT MAX	NEG (V)	POS. (V)		RISE TIME (S)	FALL TIME (S)			-	+		LOGIC OR BLOCK	OUTLINE
1#	N74LS378N		TTL	8	2.0	0.8	40M	6	0.0	5.0	27n						0	7	6	74LS378N	DL16aw
2#	N74S174F		TTL	8	2.0	0.8	110M	6	0.0	5.0	13n						0	7	6	74-174N	DL16e
3#	N74S174N		TTL	8	2.0	0.8	110M	6	0.0	5.0	13n						0	7	6	74-174N	DL16aw
4#	N74S175F		TTL	8	2.0	0.8	110M	4	0.0	5.0	12n						0	7	4	74-175N	DL16e
5#	N74S175N		TTL	8	2.0	0.8	110M	4	0.0	5.0	12n						0	7	4	74-175N	DL16aw
6#	N74S273F		TTL	8	2.0	0.8	95M	8	0.0	5.0	15n						0	7	8	74-273N	DL20Z
7#	N74S273N		TTL	8	2.0	0.8	95M	8	0.0	5.0	15n						0	7	8	74-273N	DL20Z
8#	N74S374N		TTL	8	2.0	0.8	75M*	8	0.0	5.0	8.0n						0	7	8	B08-143a	DL20Z
9#	N74S534F		TTL	8	2.0	0.8	75M*	8	0.0	5.0	8.0n						0	7	8	B08-144	DL20Z
10#	N74S534N		TTL	8	2.0	0.8	75M*	8	0.0	5.0	8.0n						0	7	8	B08-144	DL20Z
11#	N74173F		TTL	8	2.0	0.8	25M	4	0.0	5.0	43n						0	7	4	74-173	DL16e
12#	N74173N		TTL	8	2.0	0.8	25M	4	0.0	5.0	43n						0	7	4	74-173	DL16aw
13#	N74174F		TTL	8	2.0	0.8	35M	6	0.0	5.0	30n						0	7	6	74-174N	DL16e
14#	N74174N		TTL	8	2.0	0.8	35M	6	0.0	5.0	30n						0	7	6	74-174N	DL16aw
15#	N74175F		TTL	8	2.0	0.8	35M	4	0.0	5.0	30n						0	7	4	74-175N	DL16e
16#	N74175N		TTL	8	2.0	0.8	35M	4	0.0	5.0	30n						0	7	4	74-175N	DL16aw
17#	S8TS806F		TTL	8	2.0	0.8	75M*	8	0.0	5.0	8.0n						5	C	8	B08-143a	DL20Z
18#	S8TS808F		TTL	8	2.0	0.8	75M*	8	0.0	5.0	8.0n						5	C	8	B08-144a	DL20Z
19#	S54F74W		TTL	8	2.0	0.8	125M**		-5	7.0	6.8n						5	C		54-74W	FP153
20#	S54F374F		TTL	8	2.0	0.8	100M**		-5	7.0	7.0n						5	C		74-374	DL20ac
21#	S54F534F		TTL	8	2.0	0.8	100M**		-5	7.0	8.5n						5	C		74LS534	DL20ac
22#	S54F534W		TTL	8	2.0	0.8	100M**		-5	7.0	8.5n						5	C		54LS534	FP154
23#	S54S174F		TTL	8	2.0	0.8	75M	6	10	0.0	5.0	15n	2.5n	2.5n		0.4	5	C	6	74-174	DL16ar
24#	S54S174W		TTL	8	2.0	0.8	75M	6	10	0.0	5.0	15n	2.5n	2.5n		0.4	5	C	6	54-174	FP153
25#	S54S374F		TTL	8	2.0	0.8	75M*	8	0	5.0	5.0	8.0n					5	C	8	B08-143a	DL20Z
26#	S54S534F		TTL	8	2.0	0.8	75M*	8	0	5.0	5.0	8.0n					5	C	8	B08-144	DL20Z
27#	S54174F		TTL	8	2.0	0.8	25M	4	10	0.0	5.0	32n	7n	7n		0.4	5	C	6	74-174N	DL16ar
28#	S54174W		TTL	8	2.0	0.8	25M	4	10	0.0	5.0	32n	7n	7n		0.4	5	C	6	54-174W	FP153
29#	S54175F		TTL	8	2.0	0.8	25M	4	10	0.0	5.0	32n	7n	7n		0.4	5	C	4	74-175	DL16ar
30#	S54175W		TTL	8	2.0	0.8	25M	4	10	0.0	5.0	32n	7n	7n		0.4	5	C	4	54-175W	FP153
31#	SN54ALS74N		TTL	8	2.0	0.8	30M	8		0.0	5.0	15n					5	C	2	74-74	DL14dg
32#	SN54AS876JT #mil		TTL	8	2.0	0.8			0	7.0							5	C	2	B08-156	DL24bf
33#	SN74AS876JT		TTL	8	2.0	0.8			0	7.0							0	7	2	B08-156	DL24bf
34#	SN74AS876NT		TTL	8	2.0	0.8			0	7.0							0	7	2	B08-156	DL24bg
35#	M74ALS74P		TTL	8	2.0*	0.8	34M		0.0	5.0	11n				22m		2	7	2	74-74N	DL14cf
36#	N74LS273D		TTL	8	2.0*	0.8	40M	8	0.0	5.0	27n						0	7	8	74-273N	DL20Z
37#	N74LS374D		TTL	8	2.0*	0.8	35M*	8	0.0	5.0	19n						0	7	8	74LS364N	DL20Z
38#	N74LS377D		TTL	8	2.0*	0.8	40M	8	0.0	5.0	27n						0	7	8	74LS377N	DL20Z
39#	N74S74D		TTL	8	2.0*	0.8	75M**	4	10	0.0	5.0	13n			250m	1.0 †	0	7	2	74-74N	DL14bh
40#	N74S374D		TTL	8	2.0*	0.8	75M**	8	10	0.0	5.0	8.0n					0	7	8	B08-143a	DL20Z
41#	MC3160F		TTL	8	2.4	0.40	30MT†	4	10	0.0	5.0	17n			120m		5	C	2	B08-10	TO86
42#	MC3160L		TTL	8	2.4	0.40	30MT†	4	10	0.0	5.0	17n			120m†	700m	5	C	2	74-74N	TO116
43#	370AJ		TTL	8	2.4	0.80		2	4	0.0	15	750n			795m		3	7	4	B08-122	DL16bq
44#	370AL		TTL	8	2.4	0.80		2	4	0.0	15	750n			795m		3	7	4	B08-122	DL16ad
45#	370CJ		TTL	8	2.4	0.80		2	4	0.0	12	750n			492m		3	8	4	B08-122	DL16bq
46#	370CL		TTL	8	2.4	0.80		2	4	0.0	12	750n			492m		3	8	4	B08-122	DL16ad
47#	K155TM2		TTL	8	2.4	0.4		9	10		5.0						1	7	2		
48#	K155TM5		TTL	8	2.4	0.4		4	10		5.0						1	7	4		
49#	MC3060L.P%		TTL	8	2.5	0.40	30MT†	4	10	0.0	5.0	17n					0	7	2	B08-10	TO116
50#	MC4015L		TTL	8	2.5	0.40	30MT†	10	10	0.0	5.0	16n			120m†	700m	0	7	1	74-415N	DL16aj
51#	MC4015P		TTL	8	2.5	0.40	30MT†	10	10	0.0	5.0	16n			190m†		0	7	1	74-415N	TO116
52#	N8828A		TTL	8	2.6	0.40	25MT†	4	20	0.0	5	24n			50n	600m	0	7	2	74-74N	TO116
53#	N8828F		TTL	8	2.6	0.40	25MT†	4	20	0.0	5.0	24n			50n	600m	0	7	2	74-74N	DL14ad
54#	N8828J		TTL	8	2.6	0.40	25MT†	4	20	0.0	5	24n			50n	600m	0	7	2	54-74W	TO88
55#	S8828A		TTL	8	2.6	0.40	25MT†	4	20	0.0	5	24n			50n	600m	5	C	2	74-74N	TO116
56#	S8828F		TTL	8	2.6	0.40	25MT†	4	20	0.0	5.0	24n			50n	600m	5	C	2	74-74N	DL14ad
57#	S8828J		TTL	8	2.6	0.40	25MT†	4	20	0.0	5	24n			50n	600m	5	C	2	54-74W	TO88
58#	ZN5474E		TTL	8	3.5	0.20		4	10	0.0	5.0	13n			10m	1.0	5	C	2	DL14m	TO86
59#	ZN5474F		TTL	8	3.5	0.20		4	10	0.0	5.0	13n			10m	1.0	5	C	2	DL14m	TO86
60#	ZN5475E		TTL	8	3.5	0.20		3	10	0.0	5.0	13n			10m	1.0	5	C	2	DL14m	TO86
61#	ZN7474E		TTL	8	3.5	0.20		4	10	0.0	5.0	13n			10m	1.0	0	7	2	DL14m	TO86
62#	ZN7474F		TTL	8	3.5	0.20		4	10	0.0	5.0	13n			10m	1.0	0	7	2	DL14m	TO86
63#	ZN7475E		TTL	8	3.5	0.20		3	10	0.0	5.0	13n			10m	1.0	0	7	2	TO86	
64#	SP328A		TTL	8	3.5	0.60		4	7	0.0	5.0	25n			190m	1.0 †	5	C	2	B08-44	TO116
65#	HD74ALS74		TTL	8.0	2.0	0.8	30M\$			0	5.0	21n				0.4	0	7	2	DL14Z	
66#	SN54ALS74J #mil		TTL	8.0	2.0	0.8	30M*			0	5.0	20n				0.4	5	C	1	74-74	DL14Z
67#	SN54ALS377J #mil		TTL	8.0	2.0	0.8	30M*			0	5.0	27n				0.3	0	7	8	B08-140	DL16dn
68#	SN74ALS74J #		TTL	8.0	2.0	0.8	30M*			0	5.0	20n				0.3	0	7	1	74-74N	DL14Z
69#	SN74ALS74N #		TTL	8.0	2.0	0.8	30M*			0	5.0	20n				0.3	0	7	1	74-74N	DL14Z
70#	SN74ALS273N #ai		TTL	8.0	2.0	0.8	30M*			0	5.0	20n				0.3	0	7	8	B08-137	DL16do
71#	SN74ALS377J #ai		TTL	8.0	2.0	0.8	30M*			0	5.0	27n				0.3	0	7	8	B08-140	DL16dn
72#	SN74ALS377N #ai		TTL	8.0	2.0	0.8	30M*			0	5.0	27n				0.3	0	7	8	B08-140	DL16do
73#	MC4344F #mil		TTL	8.0	2.4	0.4		0	10	0	5.0	9.0n			85m		5	C	1	B08-152	FP52d
74#	MC4344L #mil		TTL	8.0	2.4	0.4		0	10	0	5.0	9.0n			85m		5	C	1	B08-152	DL14i
75#	MC4044F		TTL	8.0	2.5	0.4		0	10	0	5.0	9.0n			85m		0	7	1	B08-152	FP52d
76#	MC4044L		TTL	8.0	2.5	0.4		0	10	0	5.0	9.0n			85m		0	7	1	B08-152	DL14i
77#	MC4044P																				

5. GATES

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC (4) LOGIC (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN IN		POWER SUPPLY SPAN		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE		PKTS PER MOD	DRAWINGS		
					3 MIN. '1' (V)	4 MAX. '0' (V)	IN	OUT MAX.	NEG. (V)	POS. (V)		RISE TIME (S)	FALL TIME (S)			-	+		LOGIC OR BLOCK	OUTLINE	
1	MC54HC266J #mil																				
2	MC74HC10N #ai																				
3	966DC			1,2				4	11	4.5	4.5	3.0n		1.0		0	7	3	G02-120	TO116	
4	971DC			1,2				4	11	2.0	4.5	3.0n		2.0		0	7	2	G02-120b	TO116	
5	956DC			1,2	2.6	-45C		2	25	2.0	4.5	14n		2.0		0	7	2	G01-179	TO116	
6	CM4019AD			1,2T	10	0.0C		10		0.0	10	100nΔ		200m	4.5	5	C	1	40-19B	DL16az	
7	CM4019AE			1,2T	10	0.0C		10		0.0	10	125nΔ		200m	4.5	4	8	1	40-19B	DL16az	
8	953DC			1M				8	11	2.0	4.5	3.0n		1.0		1	5	3	G01-177	TO116	
9	954DC			1M				8	11	2.0	4.5	3.0n		2.0		1	5	2	G01-177b	TO116	
10	955DC			1M				8	11	2.0	4.5	3.0n		1.0		1	5	1	*	TO116	
11	964DC			1MA				3	11	2.0	4.5	3.0n		1.0		1	5	3	G01-177a	TO116	
12	952DC			3	2.35*	.36CΔ		2	12	2.0	4.5	7.0n		2.0	1.0	1	5	2	G03-205	TO116	
13	CD4001UBD			3	9.95*	.05ΔC		2		0.0	10	60nΔ		5.0u%		5	C	4	40-01B	MO001AD	
14	CD4001UBE			3	9.95*	.05ΔC		2		0.0	10	60nΔ		5.0u%		4	8	4	40-01B	MO001AB	
15	CD4001UBF			3	9.95*	.05ΔC		2		0.0	10	60nΔ		5.0u%		5	C	4	G03-290	MO001AB	
16	CM4000AD			3G	10	0.0C		3		0.0	10	45nΔ		200m	4.5	5	C	2	40-00B	DL14j	
17	CM4000AE			3G	10	0.0C		3		0.0	10	65nΔ		200m	4.5	4	8	2	40-00B	DL14j	
18	CM4001AD			3G	10	0.0C		2		0.0	10	45nΔ		200m	4.5	5	C	4	40-01B	DL14j	
19	CM4001AE			3G	10	0.0C		2		0.0	10	65nΔ		200m	4.5	4	8	4	40-01B	DL14j	
20	CM4002AD			3G	10	0.0C		4		0.0	10	45nΔ		200m	4.5	5	C	2	40-02B	DL14j	
21	CM4002AE			3G	10	0.0C		4		0.0	10	65nΔ		200m	4.5	4	8	2	40-02B	DL14j	
22	CM4025AD			3G	10	0.0C		3		0.0	10	45nΔ		200m	4.5	5	C	3	40-25B	DL14j	
23	CM4025AE			3G	10	0.0C		3		0.0	10	65nΔ		200m	4.5	4	8	3	40-25B	DL14j	
24#	FZH171			4	7.5*	4.5Δ		4	10	0.0	12	175n	340nt	120nt	62m	5.0	0	7	2	G04-429a	DL16g
25#	FZH175			4	7.5*	4.5Δ		4	10	0.0	12	175n	340nt	120nt	62m	5.0	2	8	2	G04-429a	DL16g
26#	FZH211			4	7.5*	4.5Δ		3	10	0.0	12	125n	230nt	120nt	81m	5.0	0	7	4	G04-448	DL16k
27#	FZH231			4	7.5*	4.5Δ		6	10	0.0	12	125n	230nt	120nt	40m	5.0	0	7	2	G04-449	DL16k
28#	FZH235			4	7.5*	4.5Δ		6	10	0.0	12	125n	230nt	120nt	40m	5.0	2	8	2	G04-449	DL16k
29	CM4011AD			4	10	0.0C		2		0.0	10	40nΔ		200m	4.5	5	C	4	40-11B	DL14j	
30	CM4011AE			4	10	0.0C		2		0.0	10	50nΔ		200m	4.5	4	8	4	40-11B	DL14j	
31	CM4012AD			4	10	0.0C		4		0.0	10	75nΔ		200m	4.5	5	C	2	40-12B	DL14j	
32	CM4012AE			4	10	0.0C		4		0.0	10	100n		200m	4.5	4	8	2	40-12B	DL14j	
33	CM4023AD			4	10	0.0C		3		0.0	10	40nΔ		200m	4.5	5	C	3	40-23B	DL14j	
34	CM4023AE			4	10	0.0C		3		0.0	10	50nΔ		200m	4.5	4	8	3	40-23B	DL14j	
35	CM4030AD			5	10	0.0C		2		0.0	10	100nΔ		200m	4.5	5	C	4	74L86N	DL14j	
36	CM4030AE			5	10	0.0C		2		0.0	10	150nΔ		200m	4.5	4	8	4	74L86N	DL14j	
37	HD1-6600-2		BIP	8	2.0	0.8		4		0.0	18		65n	65n	1.0	5	C	4	G08-24	DL14dl	
38	HD1-6600-5		BIP	8	2.0	0.8		4		0.0	18		65n	65n	1.0	0	7	4	G08-24	DL14dl	
39	9502DC		CML	2,3	-9.0	-1.7		9	10	5.2	0.0	2.5n	4.5n	4.5n	230m	300m	0	7	1	G02-139	DL16y
40	9503DC		CML	2,3	-9.0	-1.7		7	10	5.2	0.0	2.5n	4.5n	4.5n	310m	300m	0	7	1	G02-139a	DL16y
41	MC54HC08BCAJ(A)		CMS	1	3.2	1.1		2	8	0.5	7.0	20n		500m	1.0	5	C	4	G01-309	DL14Z	
42	MC54HC08BCAN(A)		CMS	1	3.2	1.1		2	8	0.5	7.0	20n		500m	1.0	5	C	4	G01-309	DL14Z	
43	MC74HC08BCAJ(A)		CMS	1	3.2	1.1		2	10	0.5	7.0	20n		500m	1.0	4	8	4	G01-309	DL14Z	
44	MC74HC08BCAN(A)		CMS	1	3.2	1.1		2	10	0.5	7.0	20n		500m	1.0	4	8	4	G01-309	DL14Z	
45#	HD14073B		CMS	1	3.5	1.5		23e	0.0	18	160n	200n	200n	300m	1.0	4	8	3	G01-262	DL14cz	
46#	HD14081B		CMS	1	3.5	1.5		23e	0.0	18	160n	200n	200n	300m	1.0	4	8	4	G01-260	DL14cz	
47#	HD14082B		CMS	1	3.5	1.5		23e	0.0	18	160n	200n	250n	300m	1.0	4	8	2	G01-261	DL14cz	
48	MM54CO8D		CMS	1	3.5*	1.5Δ		2	2	0.0	5.0	80n		500m	450m	5	C	4	74-08N	DL14bi	
49	MM74CO8N		CMS	1	3.5*	1.5Δ		2	2	0.0	5.0	80n		500m	450m	0	7	4	74-08N	DL14bt	
50#	MSM4081RS		CMS	1	3.6*	1.0Δ		40	0.3	16	300n	200n	200n	300m	0.6	4	8	4	G01-306	DL14Z	
51#	MSM4082RS		CMS	1	3.6*	1.0Δ		40	0.3	16	300n	200n	200n	300m	0.6	4	8	2	G01-305	DL14Z	
52#	TC40H08P		CMS	1	4.0*	1.0Δ		2	50	0.0	15	29nΔ	35n	30n	300m	1.0	4	8	4	40H008	DL14ch
53#	TC40H011P		CMS	1	4.0*	1.0Δ		3	50	0.0	15	32nΔ	35n	30n	300m	1.0	4	8	3	40H011	DL14ch
54#	TC40H021P		CMS	1	4.0*	1.0Δ		4	50	0.0	15	50nΔ	40n	30n	300m	1.0	4	8	2	40H021	DL14ch
55#	HEF4081P		CMS	1	7.0*	3.0Δ		2		0.0	10	50nΔ		50u%	4.5	4	8	4	40-81B	TO116	
56#	HEF4082P		CMS	1	7.0*	3.0Δ		2		0.0	10	25n		50u%	4.5	4	8	2	40-82B	TO116	
57#	MSM4081		CMS	1	7.2*	1.0Δ*		2	16e	0.0	10	300n	120n	120n	300u%	0.6	2	7	4	40-81B	DL14cg
58#	MSM4082		CMS	1	7.2*	2.0Δ		4	16e	0.0	10	150nΔ	120n	120n	300u%	2.0 *	2	7	2	40-82B	DL14cg
59	883/4073B		CMS	1	8.2	6.7		9		0.0	15	90n		300m		5	C	3	40-73	MO001AA	
60	883/4081B		CMS	1	8.21	6.7		8		0.0	15	90n		300m		5	C	4	40-81	MO001AA	
61	883/4082B		CMS	1	8.21	6.7		8		0.0	15	90n		300m		5	C	2	40-82	MO001AA	
62#	HEF4073B		CMS	1	9.95*	.05ΔC		3	2.4e	0.0	10	35nΔ		15u%		4	8	3	40-73B	TO116	
63#	HEF4073P		CMS	1	9.95*	.05ΔC		3		0.0	10	35n		300u%		4	8	3	40-73B	DL14bv	
64	SCL4073B		CMS	1	9.95*	.05ΔC		3	50	0.0	10	130nΔ		1.0u%	3.0	5	C	3	40-73B	MO001AA	
65	SCL4081B		CMS	1	9.95*	.05ΔC		2	50	0.0	10	130nΔ		1.0u%	3.0	5	C	4	40-81B	MO001AA	
66	SCL4082B		CMS	1	9.95*	.05ΔC		4	50	0.0	10	130nΔ		1.0u%	3.0	5	C	2	40-82B	MO001AA	
67#	HCC4073BD		CMS	1	10	0.0		3	3	0.0	10	170nΔ		200m	4.5	5	C	3	40-73B	DL14cd	
68#	HCC4073BF		CMS	1	10	0.0		3	3	0.0	10	170nΔ		200m	4.5	5	C	3	40-73B	DL14bd	
69#	HCC4073BK		CMS	1	10	0.0		3	3	0.0	10	170nΔ		200m	4.5	5	C	3	40-73B	FP130	
70#	HCC4081BD		CMS	1	10	0.0C		2	4	0.0	10	170nΔ		200m	4.5	5	C	4	40-81B	DL14cd	
71#	HCC4081BF		CMS	1	10	0.0C		2	4	0.0	10	170nΔ		200m	4.5	5	C	4	40-81B	DL14bd	
72#	HCC4081BK		CMS	1	10	0.0C		2	4	0.0	10	170nΔ		200m	4.5	5	C	4	40-81B	FP130	
73#	HCC4082BD		CMS	1	10	0.0C		4	2	0.0	10	170nΔ		200m	4.5	5	C	2	40-82B	DL14cd	
74#	HCC4082BF		CMS	1	10	0.0C		4	2	0.0	10	170nΔ		200m	4.5	5	C	2	40-82B	DL14bd	
75#	HCC4082BK		CMS	1	10	0.0C		4	2	0.0	10	170nΔ		200m	4.5	5	C	2	40-82B	FP130	
76#	HCF4073BE		CMS	1	10	0.0		3	3	0.0	10	170nΔ		200m	4.5	4	8	3	40-73B	DL14w	
77#	HCF4073BF		CMS	1	10	0.0		3	3	0.0	10	170nΔ		200m	4.5	4					

5. GATES

IN ORDER OF:(1)TECHNOLOGY(2)TYPE(3)LOGIC*(4)LOGIC*(5)TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN IN		POWER SUPPLY SPAN		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE		CKTS PER MOD	DRAWINGS	
					3	4	IN	OUT	NEG.	POS		RISE TIME (S)	FALL TIME (S)			LOGIC OR BLOCK	OUTLINE			
					MIN. (V)	MAX. (V)		MAX.												
1	CD4081BCN		CMS	1	11*	4.0Δ	2	16e	0.0	15	70nΔ			60u%	6.7	4	8	4	40-81B	DL14bt
2	CD4081BD		CMS	1	11*	4.0Δ	2	18e	0.0	15	90nΔ			500m	4.0 *	5	8	4	40-81B	MO001AD
3	CD4081BE		CMS	1	11*	4.0Δ	2	18e	0.0	15	90nΔ			500m	4.0 *	4	8	4	40-81B	MO001AB
4	CD4081BF		CMS	1	11*	4.0Δ	2	18e	0.0	15	90nΔ			500m	4.0 *	5	8	4	40-81B	MO001AB
5	CD4081BMJ		CMS	1	11*	4.0Δ	2	19e	0.0	15	70nΔ			15u%	6.7	5	8	4	40-81B	DL14az
6	CD4081BMW		CMS	1	11*	4.0Δ	2	19e	0.0	15	70nΔ			15u%	6.7	5	8	4	40-81B	FP97c
7	CD4082BD		CMS	1	11*	4.0Δ	4	18e	0.0	15	90nΔ			500m	4.0 *	5	8	2	40-82B	MO001AD
8	CD4082BE		CMS	1	11*	4.0Δ	4	18e	0.0	15	90nΔ			500m	4.0 *	4	8	2	40-82B	MO001AB
9	CD4082BF		CMS	1	11*	4.0Δ	4	18e	0.0	15	90nΔ			500m	4.0 *	5	8	2	40-82B	MO001AB
10#	HEF4073		CMS	1	11*	4.0Δ	3	16e	0.0	15	40nΔ			400m	6.7	4	8	3	40-73B	DL14
11#	HEF4073BDF		CMS	1	11.0*	4.0Δ	3	16e	0.0	15	40nΔ			400m	6.7	4	8	3	G01-262	DL14bg
12#	HEF4073BPN		CMS	1	11.0*	4.0Δ	3	16e	0.0	15	40nΔ			400m	6.7	4	8	3	G01-262	DL14bv
13#	HEF4073BTD		CMS	1	11.0*	4.0Δ	3	50e	0.0	15	40nΔ			200m	6.7	4	8	3	G01-262	FP147
14#	HEF4081		CMS	1	11*	4.0Δ	2	16e	0.0	15	40nΔ			400m	6.7	4	8	4	40-81B	DL14
15#	HEF4081BDF		CMS	1	11.0*	4.0Δ	2	16e	0.0	15	40nΔ			400m	6.7	4	8	4	G01-260	DL14bg
16#	HEF4081BPN		CMS	1	11.0*	4.0Δ	2	16e	0.0	15	40nΔ			400m	6.7	4	8	4	G01-260	DL14bv
17#	HEF4081BTD		CMS	1	11.0*	4.0Δ	2	50e	0.0	15	40nΔ			200m	6.7	4	8	4	G01-260	FP147
18#	HEF4082		CMS	1	11*	4.0Δ	4	16e	0.0	15	45nΔ			400m	6.7	4	8	2	G01-261	DL14
19#	HEF4082BDF		CMS	1	11.0*	4.0Δ	4	16e	0.0	15	45nΔ			400m	6.7	4	8	2	G01-261	DL14bg
20#	HEF4082BPN		CMS	1	11.0*	4.0Δ	4	16e	0.0	15	45nΔ			400m	6.7	4	8	2	G01-261	DL14bv
21#	HEF4082BTD		CMS	1	11.0*	4.0Δ	4	50e	0.0	15	45nΔ			200m	6.7	4	8	2	G01-261	FP147
22#	LC4082B		CMS	1	11.0	4.0	4	5	0.5	20	80n	160n	80n	300m	4.0 *	4	8	2	G01-260	DL14cf
23#	M4073BP		CMS	1	11.0*	4.0Δ	3	50	0.0	18	150nΔ	160n	80n	0.5	4.0 *	4	8	3	G01-262	DL14cj
24#	M4081BP		CMS	1	11*	4.0	4	5	0.0	18	150nΔ	160n	80n	500m	4.0 *	4	8	4	G01-260	DL14cf
25#	M4082BP		CMS	1	11.0*	4.0Δ	4	50	0.0	18	150nΔ	160n	80n	0.5	4.0 *	4	8	2	G01-260	DL14cf
26	JANM38510/17001BCA		CMS	1	11*	4.0Δ	2	13e	0.0	15	120n			200m		5	8	4	40-81B	DL14bo
27	JANM38510/17002BCA		CMS	1	11*	4.0Δ	4	13e	0.0	15	120n			200m		5	8	2	40-82B	DL14bo
28	JANM38510/17002BCC		CMS	1	11*	4.0Δ	4	13e	0.0	15	120n			200m		5	8	2	40-82B	DL14bo
29	JANM38510/17003BCA		CMS	1	11*	4.0Δ	3	13e	0.0	15	120n			200m		5	8	3	40-73B	DL14bo
30	JANM38510/17003BCC		CMS	1	11*	4.0Δ	3	13e	0.0	15	120n			200m		5	8	3	40-73B	DL14bo
31	MC14081BAL		CMS	1	11*	4.0Δ	2	50	0.0	15	100nΔ	80n	80n	15u%	2.5 *	5	8	4	40-81B	TO116
32	MC14081BCL		CMS	1	11*	4.0Δ	2	50	0.0	15	100nΔ	80n	80n	60u%	2.5 *	4	8	4	40-81B	TO116
33	MC14081BCP		CMS	1	11*	4.0Δ	2	50	0.0	15	100nΔ	80n	80n	60u%	2.5 *	4	8	4	40-81B	TO116
34	MC14082BAL		CMS	1	11*	4.0Δ	4	50	0.0	15	100nΔ	80n	80n	15u%	2.5 *	5	8	2	40-82B	TO116
35	MC14082BCL		CMS	1	11*	4.0Δ	4	50	0.0	15	100nΔ	80n	80n	60u%	2.5 *	4	8	2	40-82B	TO116
36	MC14082BCP		CMS	1	11*	4.0Δ	4	50	0.0	15	100nΔ	80n	80n	60u%	2.5 *	4	8	2	G01-261	TO116
37	MC14073BAL		CMS	1	14.9*	0.5ΔC	3	50	0.0	15	100nΔ	80n	80n	15u%	2.5 *	5	8	3	40-73B	TO116
38	MC14073BCL		CMS	1	14.9*	0.5ΔC	3	50	0.0	15	100nΔ	80n	80n	60u%	2.5 *	4	8	3	40-73B	TO116
39	MC14073BCP		CMS	1	14.9*	0.5ΔC	3	50	0.0	15	100nΔ	80n	80n	60u%	2.5 *	4	8	3	40-73B	TO116
40#	TC4073BP		CMS	1	14.9*	0.5ΔC	3	50	0.0	15	150nΔ	160n	80n	300m	4.0	4	8	3	40-73B	DL14ch
41#	TC4081BP		CMS	1	14.9*	0.5ΔC	2	50	0.0	15	150nΔ	160n	80n	300m	4.0	4	8	4	40-81B	DL14ch
42#	TC4082BP		CMS	1	14.9*	0.5ΔC	4	50	0.0	15	150nΔ	160n	80n	300m	4.0	4	8	2	40-82B	DL14ch
43#	883/4019BC		CMS	1,2	11.0	4.0	4	5	0.5	18	300n			300m	4.0	5	8	4	40-19	MO-001g
44#	883/4019BD		CMS	1,2	11.0	4.0	4	5	0.5	18	300n			300m	4.0	5	8	4	40-19	DL16Z
45#	883/4019BE		CMS	1,2	11.0	4.0	4	5	0.5	18	300n			300m	4.0	4	8	4	40-19	MO-001e
46#	883/4019BF		CMS	1,2	11.0	4.0	4	5	0.5	18	300n			300m	4.0	5	8	4	40-19	FP14
47#	883/4019BH		CMS	1,2	11.0	4.0	4	5	0.5	18	300n			300m	4.0	5	8	4	40-19	CHZ
48#	SCL4019BC		CMS	1,2	11.0	4.0	4	5	0.5	18	300n			300m	4.0	5	8	4	40-19	MO001g
49#	SCL4019BD		CMS	1,2	11.0	4.0	4	5	0.5	18	300n			300m	4.0	5	8	4	40-19	MO001g
50#	SCL4019BF		CMS	1,2	11.0	4.0	4	5	0.5	18	300n			300m	4.0	5	8	4	40-19	FP14
51#	SCL4019BH		CMS	1,2	11.0	4.0	4	5	0.5	18	300n			300m	4.0	5	8	4	40-19	CHZ
52	SCL4085B		CMS	1,2	13.5*	4.5Δ	4	5	0.0	15	200nΔ	20n	20n	500m	4.0	5	8	1	40-85B	DL14
53	SCL4086B		CMS	1,2	13.5*	4.5Δ	8	5	0.0	15	200nΔ	20n	20n	500m	4.0	5	8	1	40-86B	DL14
54#	MB84019B		CMS	1,2T	10.5*	4.5Δ	4	16e	0.0	15	90nΔ	80n	80n	60u%	4.5 *	4	8	4	G01-307	DL16as
55#	MB84019BM		CMS	1,2T	10.5*	4.5Δ	4	16e	0.0	15	90nΔ	80n	80n	60u%	4.5 *	4	8	4	G01-307	DL16cu
56#	HD14506B		CMS	1,2-8	3.5	1.5	8	9.4e	0.0	18	295n	400n	200n	300m	1.1	4	8	2	45-06	DL16p
57	MC54HC58J(A)		CMS	1,2	3.2	1.1	8	8	0.5	7.0	21n	500n	500n	500m	1.1	5	8	1	G02-232	DL14Z
58	MC74HC58J(A)		CMS	1,2	3.2	1.1	10	0.5	7.0	21n	500n	500n	500m	1.1	4	8	1	G02-232	DL14Z	
59	MC74HC58N(A)		CMS	1,2	3.2	1.1	10	0.5	7.0	21n	500n	500n	500m	1.1	4	8	1	G02-232	DL14Z	
60	CD4019BD		CMS	1,2	3.5*	1.5Δ	4	0.0	18	300nΔ	20n	20n	500m	1.0	5	8	4	40-19	DL14	
61	CD4019BE		CMS	1,2	3.5*	1.5Δ	4	0.0	18	300nΔ	20n	20n	500m	1.0	4	8	4	40-19	DL14	
62	CD4019BF		CMS	1,2	3.5*	1.5Δ	4	0.0	18	300nΔ	20n	20n	500m	1.0	5	8	4	40-19	DL14	
63#	MSM510		CMS	1,2	3.6*	0.8Δ	4	15	0.0	5.0	400nΔ			25u		2	7	2	G01-274	DL14bs
64#	MSM510RS		CMS	1,2	3.6*	0.8Δ	2	40e	0.0	7.0	200n			0.6		3	8	2	G01-274	DL14db
65#	MSM512		CMS	1,2	3.6*	0.8Δ	8	15	0.0	5.0	400nΔ			25u		2	7	1	G01-275	DL14bs
66#	MSM512RS		CMS	1,2	3.6*	0.8Δ	40	0.3	7.0	400nΔ				0.4		3	8	1	G01-275	DL14Z
67#	MSM514		CMS	1,2	3.6*	0.8Δ	8	15	0.0	5.0	400nΔ			25u		2	7	1	G01-276	DL14bs
68#	MSM514RS		CMS	1,2	3.6*	0.8Δ	40	0.3	7.0	400nΔ				0.4		3	8	1	G01-276	DL14Z
69#	MSM4019RS		CMS	1,2	3.6*	1.0Δ	40	0.3	16	300n	200n	200n	200m	0.6	4	8	4	G01-307	DL16Z	
70	CD4019BC		CMS	1,2	7.0	3.0	4	0	15	50n	140n	100n	500m	4.5	4	8	4	40-19B		
71	CD4019BM		CMS	1,2	7.0	3.0	4	0	15	50n	140n	100n	500m	4.5	5	8	4	40-19B		
72	CM4037AD		CMS	1,2	10	0.0	5	0.0	10	180nΔ			200m	4.5	5	8	1	40-37A	MO001AD	
73	CM4037AE		CMS	1,2	10	0.0	5	0.0	10	250nΔ			200m	4.5	4	8	1	40-37A	MO001AB	
74#	HBC4037AD		CMS	1,2	10	0.0C	3	0.0	10	180nΔ			100u%	4.5	5	8				

5. GATES

IN ORDER OF:(1)TECHNOLOGY(2)TYPE(3)LOGIC(1)
(4)LOGIC(5)TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN IN		POWER SUPPLY SPAN		PROPAGATION DELAY (S)	RISE TIME (S)	FALL TIME (S)	MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS			
					3 MIN. (V)	4 MAX. (V)	IN	OUT MAX.	NEG. (V)	POS (V)								LOGIC OR BLOCK	OUTLINE		
1#	HCC4019BD		CMS	1,21	11*	4.0Δ			0.0	18	50n	20n†	200m†	2.5 *	5	C	4	40-19B	DL16dh		
2	MC54HC51J(A)		CMS	1,3	3.2	1.1		8	0.5	7.0	21n	500n	500m‡	1.1	5	C	1	G03-326	DL14Z		
3	MC74HC51J(A)		CMS	1,3	3.2	1.1		10	0.5	7.0	21n	500n	500m‡	1.1	4	C	1	G03-326	DL14Z		
4	MC74HC51N(A)		CMS	1,3	3.2	1.1		10	0.5	7.0	21n	500n	500m‡	1.1	4	C	1	G03-326	DL14Z		
5#	MSM4085RS		CMS	1,3	3.6*	1.0Δ		40	0.3	16	300n	200n	200m	0.6	4	C	2	G01-263	DL14Z		
6#	MSM4086RS		CMS	1,3	3.6*	1.0Δ		40	0.3	16	300n	200n	200m	0.6	4	C	1	G01-264	DL14Z		
7#	TC40H051P		CMS	1,3	4.0*	1.0Δ		6	50	0.0	15	36nΔ	30n	300m	1.0	4	C	2	40H051	DL14ch	
8#	HEF4085P		CMS	1,3	7.0*	3.0Δ		5	5	0.0	10	65nΔ		50u%	4.5	4	C	2	40-85B	TO116	
9#	MSM4085		CMS	1,3	7.2*	2.0Δ		5	16e	0.0	10	150nΔ	120n	120n	2.0 *	2	7	2	40-85B	DL14cg	
10#	MSM4086		CMS	1,3	7.2*	2.0Δ		10	16e	0.0	10	150nΔ	120n	120n	1.4m%	2.0 *	2	7	1	40-86B	DL14cg
11#	HEF4086B		CMS	1,3	9.95*	.05ΔC		10	2.4e	0.0	10	80nΔ		5.0u%	4.0	4	C	1	40-86B	TO116	
12#	HEF4086P		CMS	1,3	9.95*	.05ΔC		10	2.4e	0.0	10	80nΔ		300u%	4.0	4	C	1	40-86B	DL14bv	
13#	HCC4085BD		CMS	1,3	10	0.0		5	2	0.0	10	200nΔ		200m	4.5	5	C	2	40-85B	MO001AD	
14#	HCC4085BF		CMS	1,3	10	0.0		5	2	0.0	10	200nΔ		200m	4.5	5	C	2	40-85B	MO001AB	
15#	HCC4085BK		CMS	1,3	10	0.0		5	2	0.0	10	200nΔ		200m	4.5	5	C	2	40-85B	MO004AF	
16#	HCC4086BD		CMS	1,3	10	0.0		10	1	0.0	10	200nΔ		200m	4.5	5	C	1	40-86B	MO001AD	
17#	HCC4086BF		CMS	1,3	10	0.0		10	1	0.0	10	200nΔ		200m	4.5	5	C	1	40-86B	MO001AB	
18#	HCC4086BK		CMS	1,3	10	0.0		10	1	0.0	10	200nΔ		200m	4.5	5	C	1	40-86B	MO004AF	
19#	HCF4085BE		CMS	1,3	10	0.0		5	2	0.0	10	200nΔ		200m	4.5	4	C	2	40-85B	MO001AB	
20#	HCF4085BF		CMS	1,3	10	0.0		5	2	0.0	10	200nΔ		200m	4.5	4	C	2	40-85B	MO001AB	
21#	HCF4086BE		CMS	1,3	10	0.0		10	1	0.0	10	200nΔ		200m	4.5	4	C	1	40-86B	MO001AB	
22#	HCF4086BF		CMS	1,3	10	0.0		10	1	0.0	10	200nΔ		200m	4.5	4	C	1	40-86B	MO001AB	
23	4085BDC		CMS	1,3	11*	4.0Δ		5	25e	0.0	15	52nΔ		450u%	6.7	4	C	2	40-85B	TO116	
24	4085BDM		CMS	1,3	11*	4.0Δ		5	25e	0.0	15	52nΔ		450u%	6.7	5	C	2	40-85B	TO116	
25	4085BFC		CMS	1,3	11*	4.0Δ		5	25e	0.0	15	52nΔ		450u%	6.7	4	C	2	40-85B	FP21h	
26	4085BFM		CMS	1,3	11*	4.0Δ		5	25e	0.0	15	52nΔ		450u%	6.7	5	C	2	40-85B	FP21h	
27	4085BPC		CMS	1,3	11*	4.0Δ		5	25e	0.0	15	52nΔ		450u%	6.7	4	C	2	40-85B	DL14ce	
28	4086BDC		CMS	1,3	11*	4.0Δ		10	25e	0.0	15	64nΔ		450u%	6.7	4	C	1	40-86B	TO116	
29	4086BDM		CMS	1,3	11*	4.0Δ		10	25e	0.0	15	64nΔ		450u%	6.7	5	C	1	40-86B	TO116	
30	4086BFC		CMS	1,3	11*	4.0Δ		10	25e	0.0	15	64nΔ		450u%	6.7	4	C	1	40-86B	FP21h	
31	4086BFM		CMS	1,3	11*	4.0Δ		10	25e	0.0	15	64nΔ		450u%	6.7	5	C	1	40-86B	FP21h	
32	4086BPC		CMS	1,3	11*	4.0Δ		10	25e	0.0	15	64nΔ		450u%	6.7	4	C	1	40-86B	DL14ce	
33	CD4085BD		CMS	1,3	11*	4.0Δ		5	18e	0.0	15	180nΔ		500m	4.0 *	5	C	2	40-85B	MO001AD	
34	CD4085BE		CMS	1,3	11*	4.0Δ		5	18e	0.0	15	180nΔ		500m	4.0 *	4	C	2	40-85B	MO001AB	
35	CD4085BF		CMS	1,3	11*	4.0Δ		5	18e	0.0	15	180nΔ		500m	4.0 *	5	C	2	40-85B	MO001AB	
36	CD4086BD		CMS	1,3	11*	4.0Δ		10	18e	0.0	15	200nΔ		500m	4.0 *	5	C	1	40-86B	MO001AD	
37	CD4086BE		CMS	1,3	11*	4.0Δ		10	18e	0.0	15	200nΔ		500m	4.0 *	4	C	1	40-86B	MO001AB	
38	CD4086BF		CMS	1,3	11*	4.0Δ		10	18e	0.0	15	200nΔ		500m	4.0 *	5	C	1	40-86B	MO001AB	
39#	HEF4085		CMS	1,3	11*	4.0Δ		5	16e	0.0	15	40nΔ		400m	6.7	4	C	2	40-85B	DLZ	
40#	HEF4085BDF		CMS	1,3	11.0*	4.0Δ		5	16e	0.0	15	40nΔ		400m	6.7	4	C	2	G01-263	DL14bg	
41#	HEF4085BPN		CMS	1,3	11.0*	4.0Δ		5	16e	0.0	15	40nΔ		400m	6.7	4	C	2	G01-263	DL14bv	
42#	HEF4085BDT		CMS	1,3	11.0*	4.0Δ		5	50e	0.0	15	40nΔ		200m‡	6.7	4	C	2	G01-263	FP147	
43#	HEF4086		CMS	1,3	11*	4.0Δ		10	16e	0.0	15	25nΔ		400m	6.7	4	C	1	G01-264	DLZ	
44#	HEF4086BDF		CMS	1,3	11.0*	4.0Δ		10	16e	0.0	15	25nΔ		400m	6.7	4	C	1	G01-264	DL14bg	
45#	HEF4086BPN		CMS	1,3	11.0*	4.0Δ		10	16e	0.0	15	25nΔ		400m	6.7	4	C	1	G01-264	DL14bv	
46#	HEF4086BDT		CMS	1,3	11.0*	4.0Δ		10	50e	0.0	15	40nΔ		200m‡	6.7	4	C	2	G01-264	FP147	
47	JANM38510/17202BCA		CMS	1,3	11*	4.0Δ		10	13e	0.0	15	280n		200m		5	C	1	40-86B	DL14bo	
48	JANM38510/17202BCC		CMS	1,3	11*	4.0Δ		10	13e	0.0	15	280n		200m		5	C	1	40-86B	DL14bo	
49	JANM38510/17202CCA		CMS	1,3	11*	4.0Δ		10	13e	0.0	15	280n		200m		5	C	1	40-86B	DL14bo	
50	JANM38510/17202CCC		CMS	1,3	11*	4.0Δ		10	13e	0.0	15	280n		200m		5	C	1	40-86B	DL14bo	
51#	TC4085BP		CMS	1,3	14.9*	.05ΔC		5	50	0.0	15	160nΔ	160n	80n	300m	2.5 *	4	C	2	40-85B	DL14ch
52#	TC4086BP		CMS	1,3	14.9*	.05ΔC		10	50	0.0	15	200nΔ	160n	80n	300m	2.5 *	5	C	1	40-86B	DL14ch
53	MC14501UBAL		CMS	1,3,4	11.2*	2.5Δ		8	18e	0.0	15	50n	130n	80n	150u%	1.0 *	5	C	3	45-01A	DL16am
54	MC14501UBCL		CMS	1,3,4	11.2*	2.5Δ		8	16e	0.0	15	50n	130n	80n	60u%	1.0 *	4	C	3	45-01A	DL16am
55	MC14501UBCP		CMS	1,3,4	11.2*	2.5Δ		8	16e	0.0	15	50n	130n	80n	60u%	1.0 *	4	C	3	45-01A	DL16bo
56#	M4086BP		CMS	1,4	11.0*	4.0Δ		8	50	0.0	18	160nΔ	160n	80n	0.5	4.0 *	4	C	1	G04-472a	DL14cf
57#	HD14501UB		CMS	1,1	4.0	1.0			9.4e	0.0	18	130n	400n	200n	300m		4	C	3	45-01	DL16p
58	NC5050		CMS	11	10.5*	4.5Δ		2	2	0.0	15	5.0n			4.5	5	C	10		DL14Z	
59	NC5100		CMS	11	10.5*	4.5Δ		2	2	0.0	15	5.0n			4.5	5	C	10		DL14Z	
60	NC5150		CMS	11	10.5*	4.5Δ		2	2	0.0	15	5.0n			4.5	5	C	10		DL16Z	
61	NC5200		CMS	11	10.5*	4.5Δ		2	2	0.0	15	5.0n			4.5	5	C	10		DL16Z	
62	NC5350		CMS	11	10.5*	4.5Δ		2	2	0.0	15	5.0n			4.5	5	C	10		DL24Z	
63	NC5500		CMS	11	10.5*	4.5Δ		2	2	0.0	15	5.0n			4.5	5	C	10		DL24Z	
64	NC5600		CMS	11	10.5*	4.5Δ		2	2	0.0	15	5.0n			4.5	5	C	10		DL24Z	
65#	M4372BP		CMS	11	11.0*	4.0Δ				0.0	18				4.5	5	C	6	G11-1	DL16db	
66#	HCC4048BD		CMS	12346																	

5. GATES

IN ORDER OF (1)TECHNOLOGY(2)TYPE(3)LOGIC(4)LOGIC(5)TYPE NO.

LINE NO.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN OUT		POWER SUPPLY		PROPAGATION DELAY		MAXIMUM RISE/FALL TIME		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE (°C)	CKTS PER MOD	DRAWINGS		
					3 MIN. (V)	4 MAX. (V)	IN	OUT MAX.	NEG. (V)	POS (V)	RISE TIME (S)	FALL TIME (S)	LOGIC OR BLOCK	OUTLINE							
1#	HCF4075BF		CMS	2	10	0.0	3	3	0.0	10	200nΔ			200m	4.5	4	8	3	40-75B	MO001AB	
2#	MB84071B		CMS	2	10.5*	4.5Δ	2	16e	0.0	15	90nΔ	80n	80n	60u%	4.5 *	4	8	4	G02-227	DL14cc	
3#	MB84071BM		CMS	2	10.5*	4.5Δ	2	16e	0.0	15	90nΔ	80n	80n	60u%	4.5 *	4	8	4	G02-227	DL14bn	
4#	MB84072B		CMS	2	10.5*	4.5Δ	4	16e	0.0	15	90nΔ	80n	80n	60u%	4.5 *	4	8	2	40-172	DL14cc	
5#	MB84072BM		CMS	2	10.5*	4.5Δ	4	16e	0.0	15	90nΔ	80n	80n	60u%	4.5 *	4	8	2	40-172	DL14bn	
6#	MB84075B		CMS	2	10.5*	4.5Δ	3	16e	0.0	15	90nΔ	80n	80n	60u%	4.5 *	4	8	3	G02-229	DL14cc	
7#	MB84075BM		CMS	2	10.5*	4.5Δ	3	16e	0.0	15	90nΔ	80n	80n	60u%	4.5 *	4	8	3	G02-229	DL14bn	
8	4071BDC		CMS	2	11*	4.0Δ	2	25e	0.0	15	32nΔ			450u%	6.7	4	8	4	40-71B	TO116	
9	4071BDM		CMS	2	11*	4.0Δ	2	25e	0.0	15	32nΔ			450u%	6.7	5	8	4	40-71B	TO116	
10	4071BFC		CMS	2	11*	4.0Δ	2	25e	0.0	15	32nΔ			450u%	6.7	4	8	4	40-71B	FP21h	
11	4071BFM		CMS	2	11*	4.0Δ	2	25e	0.0	15	32nΔ			450u%	6.7	5	8	4	40-71B	FP21h	
12	4071BPC		CMS	2	11*	4.0Δ	2	25e	0.0	15	32nΔ			450u%	6.7	4	8	4	40-71B	DL14ce	
13	4072BDC		CMS	2	11*	4.0Δ	4	25e	0.0	15	20n			450u%	6.7	4	8	2	40-72B	TO116	
14	4072BDM		CMS	2	11*	4.0Δ	4	25e	0.0	15	20n			450u%	6.7	5	8	2	40-72B	TO116	
15	4072BFC		CMS	2	11*	4.0Δ	4	25e	0.0	15	20n			450u%	6.7	4	8	2	40-72B	FP21h	
16	4072BFM		CMS	2	11*	4.0Δ	4	25e	0.0	15	20n			450u%	6.7	5	8	2	40-72B	FP21h	
17	4072BPC		CMS	2	11*	4.0Δ	4	25e	0.0	15	20n			450u%	6.7	4	8	2	40-72B	DL14ce	
19	4075BDC		CMS	2	11*	4.0Δ	3	25e	0.0	15	50nΔ			450u%	6.7	4	8	3	40-75B	TO116	
19	4075BDM		CMS	2	11*	4.0Δ	3	25e	0.0	15	50nΔ			450u%	6.7	5	8	3	40-75B	TO116	
20	4075BFC		CMS	2	11*	4.0Δ	3	25e	0.0	15	50nΔ			450u%	6.7	4	8	3	40-75B	FP21h	
21	4075BFM		CMS	2	11*	4.0Δ	3	25e	0.0	15	50nΔ			450u%	6.7	5	8	3	40-75B	FP21h	
22	4075BPC		CMS	2	11*	4.0Δ	3	25e	0.0	15	50nΔ			450u%	6.7	4	8	3	40-75B	DL14ce	
23	CD4071BCJ		CMS	2	11*	4.0Δ	2	16e	0.0	15	70nΔ			60u%	6.7	4	8	4	40-71B	DL14az	
24	CD4071BCN		CMS	2	11*	4.0Δ	2	16e	0.0	15	70nΔ			60u%	6.7	4	8	4	40-71B	DL14bt	
25	CD4071BD		CMS	2	11*	4.0Δ	2	18e	0.0	15	90nΔ			500m	4.0 *	5	8	4	40-71B	MO001AD	
26	CD4071BE		CMS	2	11*	4.0Δ	2	18e	0.0	15	90nΔ			500m	4.0 *	4	8	4	40-71B	MO001AB	
27	CD4071BF		CMS	2	11*	4.0Δ	2	18e	0.0	15	90nΔ			500m	4.0 *	5	8	4	40-71B	MO001AB	
28	CD4071BMJ		CMS	2	11*	4.0Δ	2	19e	0.0	15	70nΔ			15u%	6.7	5	8	4	40-71B	DL14az	
29	CD4071BMW		CMS	2	11*	4.0Δ	2	19e	0.0	15	70nΔ			15u%	6.7	5	8	4	40-71B	FP97c	
30	CD4072BD		CMS	2	11*	4.0Δ	4	18e	0.0	15	90nΔ			500m	4.0 *	5	8	2	40-72B	MO001AD	
31	CD4072BE		CMS	2	11*	4.0Δ	4	18e	0.0	15	90nΔ			500m	4.0 *	4	8	2	40-72B	MO001AB	
32	CD4072BF		CMS	2	11*	4.0Δ	4	18e	0.0	15	90nΔ			500m	4.0 *	5	8	2	40-72B	MO001AB	
33	CD4075BCJ		CMS	2	11*	4.0Δ	3	16e	0.0	15	70nΔ			60u%	6.7	4	8	3	40-75B	DL14az	
34	CD4075BCN		CMS	2	11*	4.0Δ	3	16e	0.0	15	70nΔ			60u%	6.7	4	8	3	40-75B	DL14bt	
35	CD4075BD		CMS	2	11*	4.0Δ	3	18e	0.0	15	90nΔ			500m	4.0 *	5	8	3	40-75B	MO001AD	
36	CD4075BE		CMS	2	11*	4.0Δ	3	18e	0.0	15	90nΔ			500m	4.0 *	4	8	3	40-75B	MO001AB	
37	CD4075BF		CMS	2	11*	4.0Δ	3	18e	0.0	15	90nΔ			500m	4.0 *	5	8	3	40-75B	MO001AB	
38	CD4075BMJ		CMS	2	11*	4.0Δ	3	19e	0.0	15	70nΔ			15u%	6.7	5	8	3	40-75B	DL14az	
39	CD4075BMW		CMS	2	11*	4.0Δ	3	19e	0.0	15	70nΔ			15u%	6.7	5	8	3	40-75B	FP97c	
40#	HEF4071		CMS	2	11*	4.0Δ	2	16e	0.0	15	35nΔ			400m	6.7	4	8	4	40-71B	DL14	
41#	HEF4071BDF		CMS	2	11.0*	4.0Δ	2	16e	0.0	15	35nΔ			400m	6.7	4	8	4	G02-193	DL14bg	
42#	HEF4071BPN		CMS	2	11.0*	4.0Δ	2	16e	0.0	15	35nΔ			400m	6.7	4	8	4	G02-193	DL14bv	
43#	HEF4071BTD		CMS	2	11.0*	4.0Δ	2	50e	0.0	15	35nΔ			200m	6.7	4	8	4	G02-193	FP147	
44#	HEF4072		CMS	2	11*	4.0Δ	2	16e	0.0	15	55nΔ			400m	6.7	4	8	4	40-72B	DL14	
45#	HEF4072BDF		CMS	2	11.0*	4.0Δ	4	16e	0.0	15	55nΔ			400m	6.7	4	8	2	G02-193a	DL14bg	
46#	HEF4072BPN		CMS	2	11.0*	4.0Δ	4	16e	0.0	15	55nΔ			400m	6.7	4	8	2	G02-193a	DL14bv	
47#	HEF4072BTD		CMS	2	11.0*	4.0Δ	4	50e	0.0	15	55nΔ			200m	6.7	4	8	2	G02-193a	FP147	
48#	HEF4075		CMS	2	11*	4.0Δ	3	16e	0.0	15	50nΔ			400m	6.7	4	8	3	40-75B	DL14	
49#	HEF4075BDF		CMS	2	11.0*	4.0Δ	3	16e	0.0	15	50nΔ			400m	6.7	4	8	3	G02-193b	DL14bg	
50#	HEF4075BPN		CMS	2	11.0*	4.0Δ	3	16e	0.0	15	50nΔ			400m	6.7	4	8	3	G02-193b	DL14bv	
51#	HEF4075BTD		CMS	2	11.0*	4.0Δ	3	50e	0.0	15	50nΔ			200m	6.7	4	8	3	G02-193b	FP147	
52#	M4071BP		CMS	2	11*	4.0	4	50	0.0	18	130nΔ	160n	80n	500m	4.0	4	8	4	G02-193	DL14cf	
53#	M4072BP		CMS	2	11.0*	4.0Δ	4	50	0.0	18	130nΔ	160n	80n	0.5	4.0 *	4	8	2	40-172	DL14cf	
54#	M4075BP		CMS	2	11.0*	4.0Δ	3	50	0.0	18	130nΔ	160n	80n	0.5	4.0 *	4	8	3	G02-229	DL14cf	
55#	JANM38510/17103BCA		CMS	2	11*	4.0Δ	3	13e	0.0	15	120n			200m		5	8	3	40-75B	DL14bo	
56#	JANM38510/17103BCC		CMS	2	11*	4.0Δ	3	13e	0.0	15	120n			200m		5	8	3	40-75B	DL14bo	
57#	JANM38510/17103CCA		CMS	2	11*	4.0Δ	3	13e	0.0	15	120n			200m		5	8	3	40-75B	DL14bo	
58#	JANM38510/17103CCC		CMS	2	11*	4.0Δ	3	13e	0.0	15	120n			200m		5	8	3	40-75B	DL14bo	
59#	MC14071BAL		CMS	2	11*	4.0Δ	3	13e	0.0	15	120n	80n	80n	200m	15u%	2.5 *	5	8	3	40-75B	DL14bo
60#	MC14071BCL		CMS	2	11*	4.0Δ	2	50	0.0	15	100nΔ	80n	80n	60u%	2.5 *	4	8	4	40-71B	TO116	
61#	MC14071BCP		CMS	2	11*	4.0Δ	2	50	0.0	15	100nΔ	80n	80n	60u%	2.5 *	4	8	4	40-71B	TO116	
62#	MC14072BAL		CMS	2	11*	4.0Δ	4	50	0.0	15	100nΔ	80n	80n	15u%	2.5 *	5	8	2	40-172B	TO116	
63#	MC14072BCL		CMS	2	11*	4.0Δ	4	50	0.0	15	100nΔ	80n	80n	60u%	2.5 *	4	8	2	40-72B	TO116	
64#	MC14072BCP		CMS	2	11*	4.0Δ	4	50	0.0	15	100nΔ	80n	80n	60u%	2.5 *	4	8	2	40-72B	TO116	
65#	MC14075BAL		CMS	2	11*	4.0Δ	3	50	0.0	15	100nΔ	80n	80n	15u%	2.5 *	5	8	3	40-75B	TO116	
66#	MC14075BCL		CMS	2	11*	4.0Δ	3	50	0.0	15	100nΔ	80n	80n	60u%	2.5 *	4	8	3	40-75B	TO116	
67#	MC14075BCP		CMS	2	11*	4.0Δ	3	50	0.0	15	100nΔ	80n	80n	60u%	2.5 *	4	8	3	40-75B	TO116	
68#	TC4071BP		CMS	2	14.9*	0.5ΔC	2	50	0.0	15	130nΔ	160n	80n	300m	4.0	4	8	4	40-71B	DL14ch	
69#	TC4072BP		CMS	2	14.9*	0.5ΔC	4	50	0.0	15	130nΔ	160n	80n	300m	4.0	4	8	2	40-72B	DL14ch	
70#	TC4075BP		CMS	2	14.9*	0.5ΔC	3	50	0.0	15	130nΔ	160n	80n	300m	4.0	4	8	3	40-75B	DL14ch	
71#	MC54HC4075J#mil		CMS	2.0	3.85	1.1	0	3.0	0.5	7.0	25n	500n	500m	10	5	8	3	G02-231	DL14z		
72#	MC74HC4075N#ai		CMS	2.0	3.85	1.1	0	3.0	0.5	7.0	25n	500n	500m	10	4	8	3	G02-231	DL14z		
73#	M4078BP		CMS	2.3	11.0*	4.0Δ	8	50	0.0	18	160nΔ	160n	80n	0.5	4.0 *	4	8	1	G03-288a	DL14cf	
74#	MC54HC27J(A)		CMS	3	3.2	2.4	9	9	0.0	6.0	15n			500m		5	8	3	74-27		

5. GATES

IN ORDER OF:(1)TECHNOLOGY(2)TYPE(3)LOGIC(1)
(4)LOGIC(5)TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN IN		POWER SUPPLY SPAN	PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS			
					3] MIN. (V)	4] MAX. (V)	IN	OUT MAX.			RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE		
1	JANM38510/05202ACA		CMS	3	3.95*	.85Δ	2	7	0.0	5.0	315nΔ			200m	5	C	4	G03-282	DL14bo	
2	JANM38510/05202ADA		CMS	3	3.95*	.85Δ	2	7	0.0	5.0	315nΔ			200m	5	C	4	40-01B	FP116	
3	JANM38510/05202BAA		CMS	3	3.95*	.85Δ	2	7	0.0	5.0	315nΔ			200m	5	C	4	G03-282	FP115	
4	JANM38510/05202BAC		CMS	3	3.95*	.85Δ	2	7	0.0	5.0	315nΔ			200m	5	C	4	40-01B	FP115	
5	JANM38510/05202BCA		CMS	3	3.95*	.85Δ	2	7	0.0	5.0	315nΔ			200m	5	C	4	40-01B	DL14bo	
6	JANM38510/05202BCB		CMS	3	3.95*	.85Δ	2	7	0.0	5.0	315nΔ			200m	5	C	4	40-01B	DL14bo	
7	JANM38510/05202BCC		CMS	3	3.95*	.85Δ	2	7	0.0	5.0	315nΔ			200m	5	C	4	40-01B	DL14bo	
8	JANM38510/05202BDA		CMS	3	3.95*	.85Δ	2	7	0.0	5.0	315nΔ			200m	5	C	4	40-01B	FP116	
9	JANM38510/05202CAA		CMS	3	3.95*	.85Δ	2	7	0.0	5.0	315nΔ			200m	5	C	4	40-01B	FP115	
10	JANM38510/05202CAC		CMS	3	3.95*	.85Δ	2	7	0.0	5.0	315nΔ			200m	5	C	4	40-01B	FP115	
11	JANM38510/05202CCA		CMS	3	3.95*	.85Δ	2	7	0.0	5.0	315nΔ			200m	5	C	4	40-01B	DL14bo	
12	JANM38510/05202CCB		CMS	3	3.95*	.85Δ	2	7	0.0	5.0	315nΔ			200m	5	C	4	40-01B	DL14bo	
13	JANM38510/05202CDA		CMS	3	3.95*	.85Δ	2	7	0.0	5.0	315nΔ			200m	5	C	4	40-01B	FP116	
14	JANM38510/05203ACA		CMS	3	3.95*	.85Δ	4	7	0.0	5.0	315nΔ			200m	5	C	2	40-02B	DL14bo	
15	JANM38510/05203ADA		CMS	3	3.95*	.85Δ	4	7	0.0	5.0	315nΔ			200m	5	C	2	40-02B	FP116	
16	JANM38510/05203BAA		CMS	3	3.95*	.85Δ	4	7	0.0	5.0	315nΔ			200m	5	C	2	40-02B	FP115	
17	JANM38510/05203BAC		CMS	3	3.95*	.85Δ	4	7	0.0	5.0	315nΔ			200m	5	C	2	40-02B	FP115	
18	JANM38510/05203BCA		CMS	3	3.95*	.85Δ	4	7	0.0	5.0	315nΔ			200m	5	C	2	40-02B	DL14bo	
19	JANM38510/05203BCB		CMS	3	3.95*	.85Δ	4	7	0.0	5.0	315nΔ			200m	5	C	2	40-02B	DL14bo	
20	JANM38510/05203BCC		CMS	3	3.95*	.85Δ	4	7	0.0	5.0	315nΔ			200m	5	C	2	40-02B	DL14bo	
21	JANM38510/05203BDA		CMS	3	3.95*	.85Δ	4	7	0.0	5.0	315nΔ			200m	5	C	2	40-02B	FP116	
22	JANM38510/05203CAA		CMS	3	3.95*	.85Δ	4	7	0.0	5.0	315nΔ			200m	5	C	2	40-02B	FP115	
23	JANM38510/05203CAC		CMS	3	3.95*	.85Δ	4	7	0.0	5.0	315nΔ			200m	5	C	2	40-02B	FP115	
24	JANM38510/05203CCA		CMS	3	3.95*	.85Δ	4	7	0.0	5.0	315nΔ			200m	5	C	2	40-02B	DL14bo	
25	JANM38510/05203CCB		CMS	3	3.95*	.85Δ	4	7	0.0	5.0	315nΔ			200m	5	C	2	40-02B	DL14bo	
26	JANM38510/05203CDA		CMS	3	3.95*	.85Δ	4	7	0.0	5.0	315nΔ			200m	5	C	2	40-02B	DL14bo	
27	JANM38510/05204ACA		CMS	3	3.95*	.85Δ	3	7	0.0	5.0	315nΔ			200m	5	C	3	40-25B	DL14bo	
28	JANM38510/05204ADA		CMS	3	3.95*	.85Δ	3	7	0.0	5.0	315nΔ			200m	5	C	3	40-25B	FP116	
29	JANM38510/05204BAC		CMS	3	3.95*	.85Δ	3	7	0.0	5.0	315nΔ			200m	5	C	3	40-25B	FP115	
30	JANM38510/05204BCA		CMS	3	3.95*	.85Δ	3	7	0.0	5.0	315nΔ			200m	5	C	3	40-25B	DL14bo	
31	JANM38510/05204BCB		CMS	3	3.95*	.85Δ	3	7	0.0	5.0	315nΔ			200m	5	C	3	40-25B	DL14bo	
32	JANM38510/05204BCC		CMS	3	3.95*	.85Δ	3	7	0.0	5.0	315nΔ			200m	5	C	3	40-25B	DL14bo	
33	JANM38510/05204BDA		CMS	3	3.95*	.85Δ	3	7	0.0	5.0	315nΔ			200m	5	C	3	40-25B	FP116	
34	JANM38510/05204CAC		CMS	3	3.95*	.85Δ	3	7	0.0	5.0	315nΔ			200m	5	C	3	40-25B	FP115	
35	JANM38510/05204CCA		CMS	3	3.95*	.85Δ	3	7	0.0	5.0	315nΔ			200m	5	C	3	40-25B	DL14bo	
36	JANM38510/05204CCB		CMS	3	3.95*	.85Δ	3	7	0.0	5.0	315nΔ			200m	5	C	3	40-25B	DL14bo	
37	JANM38510/05204CDA		CMS	3	3.95*	.85Δ	3	7	0.0	5.0	315nΔ			200m	5	C	3	40-25B	FP116	
38#	HD14000UB		CMS	3	4.0	1.0		9.4e	0.0	15	115n	400n	200n	300m	4	C	3	40-25B	FP116	
39#	TC40H002P		CMS	3	4.0*	1.0Δ	2	50	0.0	15	27nΔ			300m	4	B	2	G03-296	DL14cz	
40#	TC40H027P		CMS	3	4.0*	1.0Δ	3	50	0.0	15	30nΔ	40n	35n	300m	4	B	3	40H002	DL14ch	
41	MM4602AD		CMS	3	4.99*	.01ΔC	4		0.0	5.0	35n			500m	4	B	2	40H027	DL14ch	
42	MM4602AF		CMS	3	4.99*	.01ΔC	4		0.0	5.0	35n			500m	4	B	2	40-02B	DL14bi	
43	MM4625AD		CMS	3	4.99*	.01ΔC	3		0.0	5.0	35n			500m	4	B	3	G03-300	DL14bi	
44	MM4625AF		CMS	3	4.99*	.01ΔC	3		0.0	5.0	35n			500m	4	B	3	40-25B	FP98	
45	MM5602AN		CMS	3	4.99*	.01ΔC	4		0.0	5.0	35n			500m	4	B	2	40-02B	DL14bt	
46	MM5625AN		CMS	3	4.99*	.01ΔC	3		0.0	5.0	35n			500m	4	B	3	40-25B	DL14bt	
47#	HEF4001P		CMS	3	7.0*	3.0Δ	2		0.0	10	30n			300u%	4	B	4	40-01B	TO116	
48#	HEF4002P		CMS	3	7.0*	3.0Δ	4		0.0	10	40n			300u%	4	B	2	40-02B	TO116	
49#	HEF4025P		CMS	3	7.0*	3.0Δ	3		0.0	10	60nΔ			50u%	4	B	3	40-25B	TO116	
50#	HEF4078P		CMS	3	7.0*	3.0Δ	8		0.0	10	39n			300u%	4	B	1	40-78B	TO116	
51	4002A		CMS	3	7.1*	2.9Δ	4	2	0.0	10	130nΔ			200m	4	B	2	40-02	DL14br	
52	4025A		CMS	3	7.1*	2.9Δ	3	2	0.0	10	130nΔ			200m	4	B	3	40-25B	DL14br	
53#	MSM4001		CMS	3	7.2*	2.0Δ	2	16e	0.0	10	150nΔ	150n	150n	300u%	2	7	4	40-01B	DL14cg	
54#	MSM4002		CMS	3	7.2*	2.0Δ	4	16e	0.0	10	150nΔ	150n	150n	300u%	2	7	2	40-02B	DL14cg	
55#	MSM4025		CMS	3	7.2*	2.0Δ	3	16e	0.0	10	150nΔ	150n	150n	300u%	2	7	3	G03-292	DL14cg	
56#	MSM4078		CMS	3	7.2*	2.0Δ	8	16e	0.0	10	150nΔ	120n	120n	300u%	2	7	1	40-78B	DL14cg	
57	883/4001B		CMS	3	8.2	6.7	8		0.0	15	90n			300m	5	C	4	40-01	MO001AA	
58	883/4001UB		CMS	3	8.2	6.7	8		0.0	15	50n			300m	5	C	4	40-01	MO001AA	
59	883/4025B		CMS	3	8.2	6.7	9		0.0	15	90n			300m	5	C	3	40-25	MO001AA	
60	883/4002B		CMS	3	8.21	6.7	8		0.0	15	90n			300m	5	C	2	40-02	MO001AA	
61	883/4078B		CMS	3	8.21	6.7	8		0.0	15	90n			300m	5	C	1	40-78	MO001AA	
62	883/4402B		CMS	3	8.21	6.7	8		0.0	15	90n			300m	5	C	2	44-02	MO001AA	
63	CD4002BD		CMS	3	9.95*	.05ΔC	4		0.0	10	120nΔ			5.0u%	5	C	2	40-02B	MO001AD	
64	CD4002BE		CMS	3	9.95*	.05ΔC	4		0.0	10	120nΔ			5.0u%	2.0	4	8	2	40-02B	MO001AB
65	CD4002BF		CMS	3	9.95*	.05ΔC	4		0.0	10	120nΔ			5.0u%	2.0	5	C	2	40-02B	MO001AB
66	CD4025BD		CMS	3	9.95*	.05ΔC	3		0.0	10	120nΔ			5.0u%	2.0	5	C	3	40-25B	MO001AD
67	CD4025BE		CMS	3	9.95*	.05ΔC	3		0.0	10	120nΔ			5.0u%	2.0	4	8	3	40-25B	MO001AB
68	CD4025BF		CMS	3	9.95*	.05ΔC	3		0.0	10	120nΔ			5.0u%	2.0	5	C	3	40-25B	MO001AB
69	SCL4001B		CMS	3	9.95*	.05ΔC	2	50	0.0	10	120nΔ			1.0u%	3.0	4	8	4	40-01B	DL14at
70	SCL4001UB		CMS	3	9.95*	.05ΔC	2	50	0.0	10	70nΔ			1.0u%	3.0	5	C	4	40-01B	MO001AA
71	SCL4002B		CMS	3	9.95*	.05ΔC	4	50	0.0	10	120nΔ			1.0u%	3.0	5	C	2	40-02B	MO001AA
72	SCL4025B		CMS	3	9.95*	.05ΔC	3	50	0.0	10	120nΔ			1.0u%	3.0	5	C	3	40-25B	MO001AA
73	SCL4078B		CMS	3	9.95*	.05ΔC	8	50	0.0	10	120nΔ			1.0u%	3.0	5	C	1	40-78B	MO001AA

5. GATES

IN ORDER OF:(1)TECHNOLOGY(2)TYPE(3)LOGIC*1
(4)LOGIC*5(5)TYPE NO.

LINE NO.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN IN		POWER SUPPLY SPAN		PROPAGATION DELAY (S)	MAXIMUM RISE/FALL TIME (S)		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE		CKTS PER MOD	DRAWINGS	
					3 MIN. '1' (V)	4 MAX. '0' (V)	IN	OUT MAX.	NEG. (V)	POS (V)						-	+		LOGIC OR BLOCK	OUTLINE
1	SCL4402B		CMS	3	9.95*	.05Δ	8	50	0.0	10	120n			1.0u*	3.0	5	5	2	44-02B	DL16ar
2	CD4000AF		CMS	3	9.99*	.01ΔC	3		0.0	10	45nΔ			1.0u*	4.5	5	5	2	40-00B	MO001AB
3	CD4001AF		CMS	3	9.99*	.01ΔC	2		0.0	10	45nΔ			1.0u*	4.5	5	5	4	40-01B	MO001AB
4	CD4001CJ		CMS	3	9.99*	.01ΔC	2	1.3e	0.0	10	65nΔ			50u*	4.5	4	4	4	40-01B	DL14az
5	CD4001CN		CMS	3	9.99*	.01ΔC	2	1.3e	0.0	10	65nΔ			50u*	4.5	4	4	4	40-01B	DL14bt
6	CD4001MJ		CMS	3	9.99*	.01ΔC	2	2.7e	0.0	10	40nΔ			1.0u*	4.5	5	5	4	40-01B	DL14az
7	CD4001MW		CMS	3	9.99*	.01ΔC	2	2.7e	0.0	10	40nΔ			1.0u*	4.5	5	5	4	40-01B	FP97c
8	CD4002AF		CMS	3	9.99*	.01ΔC	4		0.0	10	45nΔ			1.0u*	4.5	5	5	2	40-02B	MO001AB
9	CD4002CJ		CMS	3	9.99*	.01ΔC	4	1.3e	0.0	10	65nΔ			50u*	4.5	4	4	2	40-02B	DL14az
10	CD4002CN		CMS	3	9.99*	.01ΔC	4	1.3e	0.0	10	65nΔ			50u*	4.5	4	4	2	40-02B	DL14bt
11	CD4002MJ		CMS	3	9.99*	.01ΔC	4	2.7e	0.0	10	40nΔ			1.0u*	4.5	5	5	2	40-02B	DL14az
12	CD4002MW		CMS	3	9.99*	.01ΔC	4	2.7e	0.0	10	40nΔ			1.0u*	4.5	5	5	2	40-02B	FP97c
13	CD4025AF		CMS	3	9.99*	.01ΔC	3		0.0	10	45nΔ			1.0u*	4.5	5	5	3	40-25B	MO001AB
14	CD4025CJ		CMS	3	9.99*	.01ΔC	3	1.3e	0.0	10	65nΔ			10u*	4.5	4	4	3	40-25B	DL14az
15	CD4025CN		CMS	3	9.99*	.01ΔC	3	1.3e	0.0	10	65nΔ			10u*	4.5	4	4	3	40-25B	DL14bt
16	CD4025MJ		CMS	3	9.99*	.01ΔC	3	2.7e	0.0	10	45nΔ			15u*	4.5	5	5	3	40-25B	DL14az
17	CD4025MW		CMS	3	9.99*	.01ΔC	3	2.7e	0.0	10	45nΔ			15u*	4.5	5	5	3	40-25B	FP97c
18#	SFF24000AEV		CMS	3	9.99*	.01ΔC	3		0.0	10	55nΔ	125n	125n	200m	3.0 *	4	4	2	40-00B	TO116
19#	SFF24000AKM		CMS	3	9.99*	.01ΔC	3		0.0	10	45nΔ	75n	75n	200m	3.0 *	5	4	4	40-00B	TO116
20#	SFF24001AEV		CMS	3	9.99*	.01ΔC	2		0.0	10	55nΔ	125n	125n	200m	3.0 *	4	4	4	40-01B	TO116
21#	SFF24001AKM		CMS	3	9.99*	.01ΔC	2		0.0	10	45nΔ	75n	75n	200m	3.0 *	5	4	4	40-01B	TO116
22#	SFF24002AEV		CMS	3	9.99*	.01ΔC	4		0.0	10	55nΔ	125n	125n	200m	3.0 *	4	4	2	G03-307	TO116
23#	SFF24002AKM		CMS	3	9.99*	.01ΔC	4		0.0	10	45nΔ	75n	75n	200m	3.0 *	5	4	2	40-02B	TO116
24#	SFF24025AEV		CMS	3	9.99*	.01ΔC	3		0.0	10	55nΔ	125n	125n	200m	3.0 *	4	4	3	40-25B	TO116
25#	SFF24025AKM		CMS	3	9.99*	.01ΔC	3		0.0	10	45nΔ	75n	75n	200m	3.0 *	5	4	3	40-25B	TO116
26	CD4000AD		CMS	3	10	0.0C	3		0.0	10	45nΔ			1.0u*	4.5	5	5	2	40-00B	MO001AD
27	CD4000AE		CMS	3	10	0.0C	3		0.0	10	65nΔ			10u*	4.5	4	4	2	40-00B	MO001AB
28	CD4001AD		CMS	3	10	0.0C	2		0.0	10	45nΔ			1.0u*	4.5	5	5	4	40-01B	MO001AD
29	CD4001AE		CMS	3	10	0.0C	2		0.0	10	65nΔ			10u*	4.5	4	4	4	40-01B	MO001AB
30	CD40C2AD		CMS	3	10	0.0C	4		0.0	10	45nΔ			1.0u*	4.5	5	5	2	40-02	MO001AD
31	CD4002AE		CMS	3	10	0.0C	4		0.0	10	65nΔ			10u*	4.5	4	4	2	40-02B	MO001AB
32	CD4025AD		CMS	3	10	0.0C	3		0.0	10	45nΔ			1.0u*	4.5	5	5	3	40-25B	MO001AD
33#	HBC4000AD		CMS	3	10	0.0C	3		0.0	10	45nΔ			1.0u*	4.5	5	5	2	40-00B	MO001AD
34#	HBC4000AF		CMS	3	10	0.0C	3		0.0	10	45nΔ			1.0u*	4.5	5	5	2	40-00B	MO001AD
35#	HBC4000AK		CMS	3	10	0.0C	3		0.0	10	45nΔ			1.0u*	4.5	5	5	2	40-00B	MO004AF
36#	HBC4001AD		CMS	3	10	0.0C	2		0.0	10	45nΔ			1.0u*	4.5	5	5	4	40-01B	MO001AD
37#	HBC4001AF		CMS	3	10	0.0C	2		0.0	10	45nΔ			1.0u*	4.5	5	5	4	40-01B	MO001AD
38#	HBC4001AK		CMS	3	10	0.0C	2		0.0	10	45nΔ			1.0u*	4.5	5	5	4	40-01B	MO004AF
39#	HBC4002AD		CMS	3	10	0.0C	4		0.0	10	45nΔ			1.0u*	4.5	5	5	2	40-02B	MO001AD
40#	HBC4002AF		CMS	3	10	0.0C	4		0.0	10	45nΔ			1.0u*	4.5	5	5	2	40-02B	MO001AD
41#	HBC4002AK		CMS	3	10	0.0C	4		0.0	10	45nΔ			1.0u*	4.5	5	5	2	40-02B	MO004AF
42#	HBC4025AD		CMS	3	10	0.0C	3		0.0	10	45nΔ			1.0u*	4.5	5	5	3	40-25B	MO001AD
43#	HBC4025AF		CMS	3	10	0.0C	3		0.0	10	45nΔ			1.0u*	4.5	5	5	3	40-25B	MO001AD
44#	HBC4025AK		CMS	3	10	0.0C	3		0.0	10	45nΔ			1.0u*	4.5	5	5	3	40-25B	MO004AF
45#	HBF4000AE		CMS	3	10	0.0C	3		0.0	10	65nΔ			50u*	4.5	4	4	2	40-00B	MO001AB
46#	HBF4000AF		CMS	3	10	0.0C	3		0.0	10	65nΔ			50u*	4.5	4	4	2	40-00B	MO001AD
47#	HBF4001AE		CMS	3	10	0.0C	2		0.0	10	65nΔ			50u*	4.5	4	4	4	40-01B	MO001AB
48#	HBF4001AF		CMS	3	10	0.0C	2		0.0	10	65nΔ			50u*	4.5	4	4	4	40-01B	MO001AD
49#	HBF4002AE		CMS	3	10	0.0C	4		0.0	10	65nΔ			50u*	4.5	4	4	2	40-02B	MO001AB
50#	HBF4002AF		CMS	3	10	0.0C	4		0.0	10	65nΔ			50u*	4.5	4	4	2	40-02B	MO001AD
51#	HBF4025AE		CMS	3	10	0.0C	3		0.0	10	65nΔ			50u*	4.5	4	4	3	40-25B	MO001AB
52#	HBF4025AF		CMS	3	10	0.0C	3		0.0	10	65nΔ			50u*	4.5	4	4	3	40-25B	MO001AD
53#	HCC4078BD		CMS	3	10	0.0	8	1	0.0	10	340nΔ			200m	4.5	5	5	1	40-78B	MO001AB
54#	HCC4078BF		CMS	3	10	0.0	8	1	0.0	10	340nΔ			200m	4.5	5	5	1	G03-288	MO001AD
55#	HCC4078BK		CMS	3	10	0.0	8	1	0.0	10	340nΔ			200m	4.5	4	4	1	40-78B	MO004AF
56#	HCF4078BE		CMS	3	10	0.0	8	1	0.0	10	340nΔ			200m	4.5	4	4	1	40-78B	MO001AB
57#	HCF4078BF		CMS	3	10	0.0	8	1	0.0	10	340nΔ			200m	4.5	4	4	1	40-78B	MO001AB
58#	MB84001B		CMS	3	10.5*	4.5Δ	2	16e	0.0	15	80nΔ	80n	80n	60u*	4.5 *	4	4	4	G03-290	DL14cc
59#	MB84001BM		CMS	3	10.5*	4.5Δ	2	16e	0.0	15	80nΔ	80n	80n	60u*	4.5 *	4	4	4	G03-290	DL14bn
60#	MB84002B		CMS	3	10.5*	4.5Δ	4	16e	0.0	15	90nΔ	80n	80n	60u*	4.5 *	4	4	2	40-02	DL14cc
61#	MB84002BM		CMS	3	10.5*	4.5Δ	4	16e	0.0	15	90nΔ	80n	80n	60u*	4.5 *	4	4	2	40-02	DL14bn
62#	MB84025B		CMS	3	10.5*	4.5Δ	3	16e	0.0	15	90nΔ	80n	80n	60u*	4.5 *	4	4	3	G03-292	DL14cc
63#	MB84025BM		CMS	3	10.5*	4.5Δ	3	16e	0.0	15	90nΔ	80n	80n	60u*	4.5 *	4	4	3	G03-292	DL14bn
64#	MB84078B		CMS	3	10.5*	4.5Δ	8	16e	0.0	15	90nΔ	80n	80n	60u*	4.5 *	4	4	1	G03-288	DL14cc
65#	MB84078BM		CMS	3	10.5*	4.5Δ	8	16e	0.0	15	90nΔ	80n	80n	60u*	4.5 *	4	4	1	G03-288	DL14bn
66	4001BDC		CMS	3	11*	4.0Δ	2	25e	0.0	15	48nΔ			450u*	6.7	5	5	4	40-01B	TO116
67	4001BDM		CMS	3	11*	4.0Δ	2	25e	0.0	15	48nΔ			450u*	6.7	5	5	4	40-01B	TO116
68	4001BFC		CMS	3	11*	4.0Δ	2	25e	0.0	15	48nΔ			450u*	6.7	5	5	4	40-01B	FP21h
69	4001BFM		CMS	3	11*	4.0Δ	2	25e	0.0	15	48nΔ			450u*	6.7	5	5	4	40-01B	FP21h
70	4001BPC		CMS	3	11*	4.0Δ	2	25e	0.0	15	48nΔ			450u*	6.7	4	4	2	40-01B	DL14ce
71	4002BDC		CMS	3	11*	4.0Δ	4	25e	0.0	15	48nΔ			450u*	6.7	5	5	2	40-02B	TO116
72	4002BDM		CMS	3	11*	4.0Δ	4	25e	0.0	15	48nΔ			450u*	6.7	5	5	2	40-02B	TO116
73	4002BFC		CMS	3	11*	4.0Δ	4	25e	0.0	15	48nΔ			450u*	6.7	4	4	2	40-02B	FP21h
74	4002BFM		CMS	3	11*	4.0Δ	4	25e	0.0	15	48nΔ			450u*	6.7	5	5	2	40-02B	FP21h
75	4002BPC		CMS	3	11*	4.0Δ	4	25e	0.0	15	48nΔ			450u*	6.7	4	4	2	40-02B	DL14ce
76	4025BDC		CMS	3	11*	4.0Δ	3	25e	0.0	15										

5. GATES

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC (4) LOGIC (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL			FAN IN		POWER SUPPLY SPAN		PROPAGATION DELAY (S)	RISE TIME (S)	FALL TIME (S)	MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS		
					3	MIN.	4	MAX.	IN	OUT	NEG.								POS	LOGIC OR BLOCK	OUTLINE
					(V)	(V)	(V)	(V)	(V)	(V)	(V)								(V)		
1	HEF4001BPN		CMS	3	11.0*	4.0A	2	16e	0.0	15	40nΔ			400m	6.7	4	4	G03-290	DL14bv		
2	HEF4001BTD		CMS	3	11.0*	4.0A	2	50e	0.0	15	40nΔ			200m	6.7	4	4	G03-290	FP147		
3	HEF4001U		CMS	3	11*	4.0A	2	16e	0.0	15	40nΔ			400m	6.7	4	4	40-01B	DL2		
4	HEF4001UBDF		CMS	3	11.0*	4.0A	2	16e	0.0	15	20n			400m	6.7	4	4	G03-290	DL14cy		
5	HEF4001UBPN		CMS	3	11.0*	4.0A	2	16e	0.0	15	20n			400m	6.7	4	4	G03-290	DL14cx		
6	HEF4001UBTD		CMS	3	11.0*	4.0A	2	50e	0.0	15	50nΔ			200m	6.7	4	4	G03-290	FP147		
7	HEF4002		CMS	3	11*	4.0A	4	16e	0.0	15	40nΔ			400m	6.7	4	4	40-02B	DL14z		
8	HEF4002BDF		CMS	3	11.0*	4.0A	4	16e	0.0	15	40nΔ			400m	6.7	4	4	40-02	DL14bg		
9	HEF4002BPN		CMS	3	11.0*	4.0A	4	16e	0.0	15	40nΔ			400m	6.7	4	4	40-02	DL14bv		
10	HEF4002BTD		CMS	3	11.0*	4.0A	4	50e	0.0	15	40nΔ			200m	6.7	4	4	40-02	FP147		
11	HEF4025		CMS	3	11*	4.0A	3	16e	0.0	15	40nΔ			400m	6.7	4	4	40-25B	DL2		
12	HEF4025BDF		CMS	3	11.0*	4.0A	3	16e	0.0	15	40nΔ			400m	6.7	4	4	G03-292	DL14bg		
13	HEF4025BPN		CMS	3	11.0*	4.0A	3	16e	0.0	15	40nΔ			400m	6.7	4	4	G03-292	DL14bv		
14	HEF4025BTD		CMS	3	11.0*	4.0A	3	50e	0.0	15	40nΔ			200m	6.7	4	4	G03-292	FP147		
15	HEF4078		CMS	3	11*	4.0A	8	16e	0.0	15	50nΔ			400m	6.7	4	4	140-78B	DL2		
16	HEF4078BDF		CMS	3	11.0*	4.0A	8	16e	0.0	15	50nΔ			400m	6.7	4	4	G03-288	DL14bg		
17	HEF4078BPN		CMS	3	11.0*	4.0A	8	16e	0.0	15	50nΔ			400m	6.7	4	4	G03-288	DL14bv		
18	HEF4078BTD		CMS	3	11.0*	4.0A	8	50e	0.0	15	50nΔ			200m	6.7	4	4	G03-288	FP147		
19	M4001BP		CMS	3	11*	4.0			0.0	18	125nΔ	160n	80n	500m	4.0	4	4	G03-290	DL14cf		
20	M4002BP		CMS	3	11*	4.0			0.0	18	160nΔ	160n	80n	500m	4.0	4	4	40-02	DL14cf		
21	M4025BP		CMS	3	11*	4.0			0.0	18	160nΔ	160n	80n	500m	4.0	4	4	G03-292	DL14cf		
22	MC14001BAL		CMS	3	11*	4.0A	2	50	0.0	15	80nΔ	80n	80n	15u	2.5	5	C	40-01B	TO116		
23	MC14001BCL		CMS	3	11*	4.0A	2	50	0.0	15	80nΔ	80n	80n	60u	2.5	5	C	40-01B	TO116		
24	MC14001BCP		CMS	3	11*	4.0A	2	50	0.0	15	80nΔ	80n	80n	60u	2.5	5	C	40-01B	TO116		
25	MC14002BAL		CMS	3	11*	4.0A	4	50	0.0	15	100nΔ	80n	80n	15u	2.5	5	C	40-02B	TO116		
26	MC14002BCL		CMS	3	11*	4.0A	4	50	0.0	15	100nΔ	80n	80n	60u	2.5	5	C	40-02B	TO116		
27	MC14002BCP		CMS	3	11*	4.0A	4	50	0.0	15	100nΔ	80n	80n	60u	2.5	5	C	40-02B	TO116		
28	MC14025BAL		CMS	3	11*	4.0A	3	50	0.0	15	100nΔ	80n	80n	15u	2.5	5	C	40-25B	TO116		
29	MC14025BCL		CMS	3	11*	4.0A	3	50	0.0	15	100nΔ	80n	80n	60u	2.5	5	C	40-25B	TO116		
30	MC14025BCP		CMS	3	11*	4.0A	3	50	0.0	15	100nΔ	80n	80n	60u	2.5	5	C	40-25B	TO116		
31	MC14078BAL		CMS	3	11*	4.0A	8	50	0.0	15	120nΔ	80n	80n	15u	2.5	5	C	140-78B	TO116		
32	MC14078BCL		CMS	3	11*	4.0A	8	50	0.0	15	120nΔ	80n	80n	60u	2.5	5	C	140-78B	TO116		
33	MC14078BCP		CMS	3	11*	4.0A	8	50	0.0	15	120nΔ	80n	80n	60u	2.5	5	C	140-78B	TO116		
34	MC14001UBAL		CMS	3	12.5*	2.5A	2	18e	0.0	15	40n	130n	80n	15u	1.0	5	C	40-01B	DL14ci		
35	MC14001UBCL		CMS	3	12.5*	2.5A	2	16e	0.0	15	40n	130n	80n	60u	1.0	5	C	40-01B	DL14ci		
36	MC14001UBCP		CMS	3	12.5*	2.5A	2	16e	0.0	15	40n	130n	80n	60u	1.0	5	C	40-01B	DL14ci		
37	MC14002UBAL		CMS	3	12.5*	2.5A	4	18e	0.0	15	40n	130n	80n	15u	1.0	5	C	40-02B	DL14ci		
38	MC14002UBCL		CMS	3	12.5*	2.5A	4	16e	0.0	15	40n	130n	80n	60u	1.0	5	C	40-02B	DL14ci		
39	MC14002UBCP		CMS	3	12.5*	2.5A	4	16e	0.0	15	40n	130n	80n	60u	1.0	5	C	40-02	DL14ci		
40	MC14025UBAL		CMS	3	12.5*	2.5A	3	18e	0.0	15	40n	130n	80n	15u	1.0	5	C	40-25B	DL14ci		
41	MC14025UBCL		CMS	3	12.5*	2.5A	3	16e	0.0	15	40n	130n	80n	60u	1.0	5	C	40-25B	DL14ci		
42	MC14025UBCP		CMS	3	12.5*	2.5A	3	16e	0.0	15	40n	130n	80n	60u	1.0	5	C	40-25B	DL14ci		
43	TC4001BP		CMS	3	14.9*	.05ΔC	2	50	0.0	15	125nΔ	160n	80n	300m	4.0	4	4	40-11B	DL14ch		
44	TC4001BUP		CMS	3	14.9*	.05ΔC	2	50	0.0	15	80nΔ	160n	80n	300m	4.0	4	4	40-11B	DL14ch		
45	TC4002BP		CMS	3	14.9*	.05ΔC	4	50	0.0	15	160nΔ	160n	80n	300m	4.0	4	4	40-12B	DL14ch		
46	TC4025BP		CMS	3	14.9*	.05ΔC	3	50	0.0	15	160nΔ	160n	80n	300m	4.0	4	4	40-25B	DL14ch		
47	TC4078BP		CMS	3	14.9*	.05ΔC	8	50	0.0	15	160nΔ	160n	80n	300m	4.0	4	4	140-78B	DL14ch		
48	CD4002UBD		CMS	3	15	0.0	4	50	0.0	15	50nΔ			500m	4.5	5	C	40-02B	MC001AD		
49	CD4002UBE		CMS	3	15	0.0	4	50	0.0	15	50nΔ			500m	4.5	5	C	40-02B	MC001AB		
50	CD4002UBF		CMS	3	15	0.0	4	50	0.0	15	50nΔ			500m	4.5	5	C	40-02B	MC001AB		
51	CD4025UBD		CMS	3	15	0.0	3	50	0.0	15	50nΔ			500m	4.5	5	C	40-25B	MC001AD		
52	CD4025UBE		CMS	3	15	0.0	3	50	0.0	15	50nΔ			500m	4.5	5	C	40-25B	MC001AB		
53	CD4025UBF		CMS	3	15	0.0	3	50	0.0	15	50nΔ			500m	4.5	5	C	40-25B	MC001AB		
54	CD4001BD		CMS	3	15*	.05ΔC	2		0.0	15	90nΔ			15u	2.5	5	C	40-01B	MC001AD		
55	CD4001BE		CMS	3	15*	.05ΔC	2		0.0	15	90nΔ			15u	2.5	5	C	40-01B	MC001AD		
56	CD4001BF		CMS	3	15*	.05ΔC	2		0.0	15	90nΔ			15u	2.5	5	C	40-01B	MC001AD		
57	MC54HC02J #mil		CMS	3.0	3.85	1.1	0	4.0	0.5	7.0	25n	500n	500m	10	5	C	4	G03-325	DL14Z		
58	MC54HC4002J #mil		CMS	3.0	3.85	1.1	0	2.0	0.5	7.0	25n	500n	500m	10	5	C	2	G03-325	DL14Z		
59	MC74HC02J #ai		CMS	3.0	3.85	1.1	0	4.0	0.5	7.0	20n	500n	500m	10	4	4	4	G03-325	DL14Z		
60	MC74HC02N #ai		CMS	3.0	3.85	1.1	0	4.0	0.5	7.0	20n	500n	500m	10	4	4	4	G03-325	DL14Z		
61	MC74HC4002J #ai		CMS	3.0	3.85	1.1	0	2.0	0.5	7.0	25n	500n	500m	10	4	4	2	G03-325	DL14Z		
62	MC74HC4002N #ai		CMS	3.0	3.85	1.1	0	2.0	0.5	7.0	25n	500n	500m	10	4	4	2	G03-325	DL14Z		
63	MC74HC4075J #ai		CMS	3.0	3.85	1.1	0	2.0	0.5	7.0	25n	500n	500m	10	4	4	2	G03-325	DL14Z		
64	CD4078BD		CMS	3.2	11*	4.0A	8	18e	0.0	15	110nΔ			500m	4.0	5	C	140-78B	MC001AD		
65	CD4078BE		CMS	3.2	11*	4.0A	8	18e	0.0	15	110nΔ			500m	4.0	5	C	140-78B	MC001AB		
66	CD4078BF		CMS	3.2	11*	4.0A	8	18e	0.0	15	110nΔ			500m	4.0	5	C	140-78B	MC001AB		
67	CD4000BD		CMS	3C	9.95*	.05ΔC	3		0.0	10	120nΔ			5.0u	2.0	5	C	40-00B	MC001AD		
68	CD4000BE		CMS	3C	9.95*	.05ΔC	3		0.0	10	120nΔ			5.0u	2.0	5	C	40-00B	MC001AB		
69	CD4000BF		CMS	3C	9.95*	.05ΔC	3		0.0	10	120nΔ			5.0u	2.0	5	C	40-00B	MC001AB		
70	CD4000CJ		CMS	3C	9.95*	.05ΔC	3	1.3e	0.0	10	65nΔ			50u	4.5	4	4	40-00B	DL14az		
71	CD4000CN		CMS	3C	9.95*	.05ΔC	3	1.3e	0.0	10	65nΔ			50u	4.5	4	4	40-00B	DL14bt		
72	CD4000MJ		CMS	3C	9.95*	.05ΔC	3	2.7e	0.0	10	45nΔ			1.0u	4.5	5	C	40-00B	DL14az		
73	CD4000MW		CMS	3C	9.95*	.05ΔC	3	2.7e	0.0	10	45nΔ			1.0u	4.5	5	C	40-00B	FP97c		
74	CD4000UBD		CMS	3C	9.95*	.05ΔC	3		0.0	10	60nΔ			5.0u	5	C	2	40-00B	MC001AD		
75	CD4000UBE		CMS	3C	9.95*	.05ΔC	3		0.0	10	60nΔ			5.0u	5	C	2	40-00B	MC001AB		
76	CD4000UBF		CMS	3C	9.95*	.05ΔC	3		0.0	10	60nΔ			5.0u	5	C	2	40-00B	MC001AB		
77	HEF4000B		CMS	3C	9.95*	.05ΔC	3	2.4e	0.0	10</											

5. GATES

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC '1'
(4) LOGIC '0' (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN IN		POWER SUPPLY SPAN NEG. (V)	POS (V)	PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE		CKTS PER MOD	DRAWINGS	
					3 MIN. (V)	4 MAX. (V)	IN	OUT MAX.				RISE TIME (S)	FALL TIME (S)			LOGIC OR BLOCK	OUTLINE			
																-	+			
1	MC74HC20J(A)		CMS	4	3.2	1.1	4	10	0.5	7.0	23n			500mW		4	8	2	G04-534	DL14Z
2	MC74HC20N(A)		CMS	4	3.2	1.1	4	10	0.5	7.0	23n			500mW		4	8	2	G04-534	DL14Z
3	CD40107BD		CMS	4	3.5*	1.5Δ			0.0	18	100n	20n	20n	500m	1.0	5	5	2	G04-523	DLZ
4	CD40107BE		CMS	4	3.5*	1.5Δ			0.0	18	100n	20n	20n	500m	1.0	4	8	2	G04-523	DLZ
5	CD40107BF		CMS	4	3.5*	1.5Δ			0.0	18	100n	20n	20n	500m	1.0	5	5	2	G04-523	DLZ
6#	HD14011B		CMS	4	3.5	1.5		23e	0.0	15	125n	200n	200n	300m		4	8	4		DL14cz
7#	HD14012B		CMS	4	3.5	1.5		23e	0.0	15	160n	200n	200n	300m		4	8	2	G04-479	DL14cz
8#	HD14023B		CMS	4	3.5	1.5		23e	0.0	15	160n	200n	200n	300m		4	8	3	G04-480	DL14cz
9#	HD14068B		CMS	4	3.5	1.5		23e	0.0	18	200n	200n	200n	300m		4	8	1	G04-472	DL14cz
10#	LC4011BM		CMS	4	3.5*	1.5Δ			0.5	20	40n	40n	40n	150m		4	8	4	G04-478	FP151
11#	LC4081BM		CMS	4	3.5*	1.5Δ			0.5	20	45n	35n	35n	150m		4	8	4	G01-261	FP151
12	MM54C00D		CMS	4	3.5*	1.5Δ	2	2	0.0	5.0	50n			500m	450m	5	C	4	74-00N	DL14bi
13	MM54C10D		CMS	4	3.5*	1.5Δ	3	2	0.0	5.0	60n			500m	450m	5	C	3	74-10N	DL14bi
14	MM54C20D		CMS	4	3.5*	1.5Δ	4	2	0.0	5.0	70n			500m	450m	5	C	2	74-13N	DL14bi
15	MM54C30D		CMS	4	3.5*	1.5Δ	8	2	0.0	5.0	125n			500m	450m	5	C	1	74-30N	DL14bi
16	MM74C00N		CMS	4	3.5*	1.5Δ	2	2	0.0	5.0	50n			500m	450m	0	7	4	74-00N	DL14bt
17	MM74C10N		CMS	4	3.5*	1.5Δ	3	2	0.0	5.0	60n			500m	450m	0	7	3	74-10N	DL14bt
18	MM74C20N		CMS	4	3.5*	1.5Δ	4	2	0.0	5.0	70n			500m	450m	0	7	2	74-13N	DL14bt
19	MM74C30N		CMS	4	3.5*	1.5Δ	8	2	0.0	5.0	125n			500m	450m	0	7	1	74-30N	DL14bt
20#	MMS500		CMS	4	3.6*	.80Δ	2	15	0.0	5.0	300nΔ			25u		2	7	4	40-11B	DL14bs
21#	MSM501RS		CMS	4	3.6*	.8Δ	2	40e	0.0	7.0	150n				0.6	3	8	4		DL14db
22#	MSM502		CMS	4	3.6*	.80Δ	4	15	0.0	5.0	300nΔ			25u		2	7	2	G04-485	DL14bs
23#	MSM503RS		CMS	4	3.6*	.8Δ	4	40e	0.0	7.0	150n				0.6	3	8	2	G04-485	DL14db
24#	MSM504RS		CMS	4	3.6*	.8Δ	8	40e	0.0	7.0	150n				0.6	3	8	1	G04-532	DL14db
25#	MSM4011RS		CMS	4	3.6*	1.0Δ	40	0.3	16	300n	200n	200n	200m	0.6	4	8	4			DL14Z
26#	MSM4012RS		CMS	4	3.6*	1.0Δ	40	0.3	16	300n	200n	200n	200m	0.6	4	8	2	G04-479	DL14Z	
27#	MSM4023RS		CMS	4	3.6*	1.0Δ	40	0.3	16	300n	200n	200n	200m	0.6	4	8	3	G04-480	DL14Z	
28#	MMSM4068RS		CMS	4	3.6*	1.0Δ	40	0.3	16	300n	200n	200n	200m	0.6	4	8	1	G04-533	DL14Z	
29	JANM38510/05001BAA		CMS	4	3.95*	.85Δ	2	7	0.0	5.0	300nΔ			200m		5	C	4	40-11B	FP115
30	JANM38510/05001BAC		CMS	4	3.95*	.85Δ	2	7	0.0	5.0	300nΔ			200m		5	C	4	40-11B	FP115
31	JANM38510/05001BCA		CMS	4	3.95*	.85Δ	2	7	0.0	5.0	300nΔ			200m		5	C	4	40-11B	FP115
32	JANM38510/05001BCB		CMS	4	3.95*	.85Δ	2	7	0.0	5.0	430nΔ			200m		5	C	4	40-11B	DL14bo
33	JANM38510/05001BCC		CMS	4	3.95*	.85Δ	2	7	0.0	5.0	300nΔ			200m		5	C	4	40-11B	DL14bo
34	JANM38510/05001BDA		CMS	4	3.95*	.85Δ	2	7	0.0	5.0	300nΔ			200m		5	C	4	40-11B	DL14bo
35	JANM38510/05001CAA		CMS	4	3.95*	.85Δ	2	7	0.0	5.0	300nΔ			200m		5	C	4	40-11B	FP116
36	JANM38510/05001CAC		CMS	4	3.95*	.85Δ	2	7	0.0	5.0	300nΔ			200m		5	C	4	40-11B	FP115
37	JANM38510/05001CCA		CMS	4	3.95*	.85Δ	2	7	0.0	5.0	300nΔ			200m		5	C	4	40-11B	FP115
38	JANM38510/05001CCB		CMS	4	3.95*	.85Δ	2	7	0.0	5.0	300nΔ			200m		5	C	4	74-09N	DL14bo
39	JANM38510/05001CDA		CMS	4	3.95*	.85Δ	2	7	0.0	5.0	430nΔ			200m		5	C	4	40-11B	DL14bo
40	JANM38510/05002BAA		CMS	4	3.95*	.85Δ	2	7	0.0	5.0	300nΔ			200m		5	C	4	40-11B	FP116
41	JANM38510/05002BAC		CMS	4	3.95*	.85Δ	4	7	0.0	5.0	490nΔ			200m		5	C	2	40-12B	FP115
42	JANM38510/05002BCA		CMS	4	3.95*	.85Δ	4	7	0.0	5.0	490nΔ			200m		5	C	2	40-12B	FP115
43	JANM38510/05002BCB		CMS	4	3.95*	.85Δ	4	7	0.0	5.0	490nΔ			200m		5	C	2	40-12B	DL14bo
44	JANM38510/05002BCC		CMS	4	3.95*	.85Δ	4	7	0.0	5.0	490nΔ			200m		5	C	2	40-12B	DL14bo
45	JANM38510/05002BDA		CMS	4	3.95*	.85Δ	4	7	0.0	5.0	490nΔ			200m		5	C	2	40-12B	DL14bo
46	JANM38510/05002CAA		CMS	4	3.95*	.85Δ	4	7	0.0	5.0	490nΔ			200m		5	C	2	40-12B	FP116
47	JANM38510/05002CAC		CMS	4	3.95*	.85Δ	4	7	0.0	5.0	490nΔ			200m		5	C	2	40-12B	FP115
48	JANM38510/05002CCA		CMS	4	3.95*	.85Δ	4	7	0.0	5.0	490nΔ			200m		5	C	2	40-12B	FP115
49	JANM38510/05002CCB		CMS	4	3.95*	.85Δ	4	7	0.0	5.0	490nΔ			200m		5	C	2	40-12B	DL14bo
50	JANM38510/05002CDA		CMS	4	3.95*	.85Δ	4	7	0.0	5.0	490nΔ			200m		5	C	2	40-12B	DL14bo
51	JANM38510/05003BAA		CMS	4	3.95*	.85Δ	4	7	0.0	5.0	490nΔ			200m		5	C	2	40-12B	FP116
52	JANM38510/05003BAC		CMS	4	3.95*	.85Δ	3	7	0.0	5.0	265nΔ			200m		5	C	3	40-23B	FP115
53	JANM38510/05003BCA		CMS	4	3.95*	.85Δ	3	7	0.0	5.0	265nΔ			200m		5	C	3	40-23B	FP115
54	JANM38510/05003BCB		CMS	4	3.95*	.85Δ	3	7	0.0	5.0	265nΔ			200m		5	C	3	40-23B	DL14bo
55	JANM38510/05003BCC		CMS	4	3.95*	.85Δ	3	7	0.0	5.0	265nΔ			200m		5	C	3	40-23B	DL14bo
56	JANM38510/05003BDA		CMS	4	3.95*	.85Δ	3	7	0.0	5.0	265nΔ			200m		5	C	3	40-23B	DL14bo
57	JANM38510/05003CAA		CMS	4	3.95*	.85Δ	3	7	0.0	5.0	265nΔ			200m		5	C	3	40-23B	FP116
58	JANM38510/05003CAC		CMS	4	3.95*	.85Δ	3	7	0.0	5.0	265nΔ			200m		5	C	3	40-23B	FP115
59	JANM38510/05003CCA		CMS	4	3.95*	.85Δ	3	7	0.0	5.0	265nΔ			200m		5	C	3	40-23B	FP115
60	JANM38510/05003CCB		CMS	4	3.95*	.85Δ	3	7	0.0	5.0	265nΔ			200m		5	C	3	40-23B	DL14bo
61	JANM38510/05003CDA		CMS	4	3.95*	.85Δ	3	7	0.0	5.0	265nΔ			200m		5	C	3	40-23B	DL14bo
62#	TC40H000P		CMS	4	3.95*	.85Δ	3	7	0.0	5.0	265nΔ			200m		5	C	3	40-23B	FP116
63#	TC40H010P		CMS	4	4.0*	1.0Δ	2	50	0.0	15	27nΔ	40n	30n	300m	1.0	4	8	4	40H000	DL14ch
64#	TC40H020P		CMS	4	4.0*	1.0Δ	3	50	0.0	15	32nΔ	40n	30n	300m	1.0	4	8	3	40H010	DL14ch
65	CD4093BD		CMS	4	4.0*	1.0Δ	4	50	0.0	15	38nΔ	35n	30n	300m	1.0	4	8	2	40H020	DL14ch
66	CD4093BE		CMS	4	4.95*	.05CΔ			0.0	18	600nΔ	20n	20n	500m		5	C	4	G04-522	DLZ
67	CD4093BF		CMS	4	4.95*	.05CΔ			0.0	18	200n	20n	20n	500m		4	8	4	G04-522	DLZ
68	MM4611AD		CMS	4	4.99*	.01ΔC	2	2	0.0	5.0	50n			500m	450m	5	C	4	40-11B	DL14bi
69	MM4611AF		CMS	4	4.99*	.01ΔC	2	2	0.0	5.0	50n			500m	450m	5	C	4	40-11B	FP97b
70	MM4612AD		CMS	4	4.99*	.01ΔC	4	4	0.0	5.0	50n			500m	450m	5	C	2	40-12B	DL14bi
71	MM4612AF		CMS	4	4.99*	.01ΔC	4	4	0.0	5.0	50n			500m	450m	5	C	2	40-12B	FP97b
72	MM4623AD		CMS	4	4.99*	.01ΔC	3	3	0.0	5.0	50n			500m	450m	5	C	3	40-23B	DL14bi
73	MM4623AF		CMS	4	4.99*	.01ΔC	3	3	0.0	5.0	50n			500m	450m	5	C	3	40-23B	FP97b
74	MM5611AN		CMS	4	4.99*	.01ΔC	2	2	0.0	5.0	50n			500m	450m	4	8	4	40-11B	DL14bt
75	MM5612AN		CMS	4	4.99*	.01ΔC	4	4	0.0	5.0	50n			500m	450m					

5. GATES

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC (4) LOGIC (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN		POWER SUPPLY		PROPAGATION DELAY (S)	RISE TIME (S)	FALL TIME (S)	MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS		
					3 MIN. '1' (V)	4 MAX. '0' (V)	IN	OUT MAX.	NEG. (V)	POS (V)								LOGIC OR BLOCK	OUTLINE	
1#	HEF4012P		CMS	4	7.0*	3.0Δ	4	37n	0.0	10	300u			4.5	4	8	2	40-12B	TO116	
2#	HEF4023P		CMS	4	7.0*	3.0Δ	3	60nΔ	0.0	10	50u				4	8	3	40-23B	TO116	
3#	HEF4068P		CMS	4	7.0*	3.0Δ	8	32n	0.0	10	300u				4	8	1	40-68B	TO116	
4	4011A		CMS	4	7.1*	2.9Δ	2	2	0.0	10	130nΔ				4	8	4	40-11B	DL14br	
5	4012A		CMS	4	7.1*	2.9Δ	4	2	0.0	10	200nΔ				4	8	2	40-12B	DL14br	
6	4023A		CMS	4	7.1*	2.9Δ	3	2	0.0	10	110nΔ				4	8	3	40-23B	DL14br	
7#	MSM4011		CMS	4	7.2*	2.0Δ	2	16e	0.0	10	150nΔ	120n	120n	300u	2.0*	2	7	4	40-11B	DL14cg
8#	MSM4012		CMS	4	7.2*	2.0Δ	4	16e	0.0	10	150nΔ	120n	120n	300u	2.0*	2	7	2	40-12B	DL14cg
9#	MSM4023		CMS	4	7.2*	2.0Δ	3	16e	0.0	10	150nΔ	120n	120n	300u	2.0*	2	7	3	40-23B	DL14cg
10#	MSM4068		CMS	4	7.2*	2.0Δ	8	16e	0.0	10	150nΔ	120n	120n	300u	2.0*	2	7	1	40-68B	DL14cg
11	HD9-54C20		CMS	4	8.0*	2.0Δ	4		0.0	10	80nΔ	20n	20n†	10n	4.5	5	C	2	TO86	
12	HD9-74C10		CMS	4	8.0*	2.0Δ	3		0.0	10	70nΔ	20n	20n†	10n	4.5	4	C	3	TO86	
13	883/4011B		CMS	4	8.21	6.7	8		0.0	15	90n			300m	5	C	4	40-11	MO001AA	
14	883/4011UB		CMS	4	8.21	6.7	8		0.0	15	50n			300m	5	C	4	40-11	MO001AA	
15	883/4012B		CMS	4	8.21	6.7	8		0.0	15	90n			300m	5	C	2	40-12	MO001AA	
16	883/4023B		CMS	4	8.21	6.7	9		0.0	15	90n			300m	5	C	3	40-23	MO001AA	
17	883/4068B		CMS	4	8.21	6.7	8		0.0	15	90n			300m	5	C	1	40-68	MO001AA	
18	883/4412B		CMS	4	8.21	6.7	8		0.0	15	90n			300m	5	C	2	44-12	MO001AA	
19	CD4012BD		CMS	4	9.95*	.05ΔC	4		0.0	10	120nΔ			5.0u	2.0	5	C	2	40-12B	MO001AD
20	CD4012BE		CMS	4	9.95*	.05ΔC	4		0.0	10	120nΔ			5.0u	2.0	4	8	2	40-12B	MO001AB
21	CD4012BF		CMS	4	9.95*	.05ΔC	4		0.0	10	120nΔ			5.0u	2.0	5	C	2	40-12B	MO001AB
22	CD4023BD		CMS	4	9.95*	.05ΔC	3		0.0	10	120nΔ			5.0u	2.0	5	C	3	40-23B	MO001AD
23	CD4023BE		CMS	4	9.95*	.05ΔC	3		0.0	10	120nΔ			5.0u	2.0	4	8	3	40-23B	MO001AB
24	CD4023BF		CMS	4	9.95*	.05ΔC	3		0.0	10	120nΔ			5.0u	2.0	5	C	3	40-23B	MO001AB
25	SCL4011B		CMS	4	9.95*	.05ΔC	2	50	0.0	10	120nΔ			1.0u	3.0	5	C	4	40-11B	MO001AA
26	SCL4011UB		CMS	4	9.95*	.05ΔC	2	50	0.0	10	70nΔ			1.0u	3.0	5	C	1	40-11B	MO001AF
27	SCL4012B		CMS	4	9.95*	.05ΔC	4	50	0.0	10	120nΔ			1.0u	3.0	5	C	2	40-12B	MO001AA
28	SCL4023B		CMS	4	9.95*	.05ΔC	3	50	0.0	10	120nΔ			1.0u	3.0	5	C	3	40-23B	MO001AA
29	SCL4068B		CMS	4	9.95*	.05ΔC	8	50	0.0	10	120nΔ			1.0u	3.0	4	8	1	40-68B	DL14at
30	SCL4412B		CMS	4	9.95*	.05ΔC	8	50	0.0	10	120nΔ			1.0u	3.0	5	C	2	44-12B	DL16ar
31	CD4011AF		CMS	4	9.99*	.01ΔC	2	2	0.0	10	40nΔ			1.0u	4.5	5	C	4	40-11B	MO001AB
32	CD4011CJ		CMS	4	9.99*	.01ΔC	2	1.3e	0.0	10	50nΔ			50u	4.5	4	8	4	40-11B	DL14az
33	CD4011CN		CMS	4	9.99*	.01ΔC	2	1.3e	0.0	10	50nΔ			50u	4.5	4	8	4	40-11B	DL14bt
34	CD4011MJ		CMS	4	9.99*	.01ΔC	2	2.7e	0.0	10	40nΔ			1.0u	4.5	5	C	4	40-11B	DL14az
35	CD4011MW		CMS	4	9.99*	.01ΔC	2	2.7e	0.0	10	40nΔ			1.0u	4.5	5	C	4	40-11B	FP97c
36	CD4012AF		CMS	4	9.99*	.01ΔC	4		0.0	10	75nΔ			1.0u	4.5	5	C	2	40-12B	MO001AB
37	CD4012CJ		CMS	4	9.99*	.01ΔC	4	1.3e	0.0	10	50nΔ			50u	4.5	4	8	2	40-12B	DL14az
38	CD4012CN		CMS	4	9.99*	.01ΔC	4	1.3e	0.0	10	50nΔ			50u	4.5	4	8	2	40-12B	DL14bt
39	CD4012MJ		CMS	4	9.99*	.01ΔC	4	2.7e	0.0	10	40nΔ			1.0u	4.5	5	C	2	40-12B	DL14az
40	CD4012MW		CMS	4	9.99*	.01ΔC	4	2.7e	0.0	10	40nΔ			1.0u	4.5	5	C	2	40-12B	FP97c
41	CD4023AF		CMS	4	9.99*	.01ΔC	3	1.3e	0.0	10	40nΔ			1.0u	4.5	5	C	3	40-23B	MO001AB
42	CD4023CJ		CMS	4	9.99*	.01ΔC	3	1.3e	0.0	10	50nΔ			50u	4.5	4	8	3	40-23B	DL14az
43	CD4023CN		CMS	4	9.99*	.01ΔC	3	1.3e	0.0	10	50nΔ			50u	4.5	4	8	3	40-23B	DL14bt
44	CD4023MJ		CMS	4	9.99*	.01ΔC	3	2.7e	0.0	10	40nΔ			1.0u	4.5	5	C	3	40-23B	DL14az
45	CD4023MW		CMS	4	9.99*	.01ΔC	3	2.7e	0.0	10	40nΔ			1.0u	4.5	5	C	3	40-23B	FP97c
46#	SFF24011AEV		CMS	4	9.99*	.01ΔC	2		0.0	10	40nΔ	75n	75n	200m	3.0*	4	8	4	40-11B	TO116
47#	SFF24011AKM		CMS	4	9.99*	.01ΔC	2		0.0	10	40nΔ	75n	75n	200m	3.0*	5	C	4	40-11B	TO116
48#	SFF24012AEV		CMS	4	9.99*	.01ΔC	4		0.0	10	75nΔ	200n	200n	200m	3.0*	4	8	2	40-12B	TO116
49#	SFF24012AKM		CMS	4	9.99*	.01ΔC	4		0.0	10	75nΔ	200n	200n	200m	3.0*	5	C	2	40-12B	TO116
50#	SFF24023AEV		CMS	4	9.99*	.01ΔC	3		0.0	10	40nΔ	75n	75n	200m	3.0*	4	8	3	40-23B	TO116
51#	SFF24023AKM		CMS	4	9.99*	.01ΔC	3		0.0	10	40nΔ	75n	75n	200m	3.0*	5	C	3	40-23B	TO116
52	CD4011AD		CMS	4	10	0.0C	2		0.0	10	40nΔ			1.0u	4.5	5	C	4	40-11B	MO001AD
53	CD4011AE		CMS	4	10	0.0C	2		0.0	10	50nΔ			10u	4.5	4	8	4	40-11B	MO001AB
54	CD4012AD		CMS	4	10	0.0C	4		0.0	10	75nΔ			1.0u	4.5	5	C	2	40-12B	MO001AD
55	CD4012AE		CMS	4	10	0.0C	4		0.0	10	100nΔ			10u	4.5	4	8	2	40-12B	MO001AB
56	CD4023AD		CMS	4	10	0.0C	3		0.0	10	40nΔ			1.0u	4.5	5	C	3	40-23B	MO001AD
57	CD4023AE		CMS	4	10	0.0C	3		0.0	10	50nΔ			10u	4.5	4	8	3	40-23B	MO001AB
58#	HBC4011AD		CMS	4	10	0.0C	2		0.0	10	40nΔ			1.0u	4.5	5	C	4	40-11B	MO001AD
59#	HBC4011AF		CMS	4	10	0.0C	2		0.0	10	40nΔ			1.0u	4.5	5	C	4	40-11B	MO001AD
60#	HBC4011AK		CMS	4	10	0.0C	2		0.0	10	40nΔ			1.0u	4.5	5	C	4	40-11B	MO004AF
61#	HBC4012AD		CMS	4	10	0.0C	4		0.0	10	75nΔ			1.0u	4.5	5	C	2	40-12B	MO001AD
62#	HBC4012AF		CMS	4	10	0.0C	4		0.0	10	75nΔ			1.0u	4.5	5	C	2	40-12B	MO001AD
63#	HBC4012AK		CMS	4	10	0.0C	4		0.0	10	75nΔ			1.0u	4.5	5	C	2	40-12B	MO004AF
64#	HBC4023AD		CMS	4	10	0.0C	3		0.0	10	40nΔ			1.0u	4.5	5	C	3	40-23B	MO001AD
65#	HBC4023AF		CMS	4	10	0.0C	3		0.0	10	40nΔ			1.0u	4.5	5	C	3	40-23B	MO001AD
66#	HBC4023AK		CMS	4	10	0.0C	3		0.0	10	40nΔ			1.0u	4.5	5	C	3	40-23B	MO004AF
67#	HBF4011AE		CMS	4	10	0.0C	2		0.0	10	50nΔ			50u	4.5	4	8	4	40-11B	MO001AB
68#	HBF4011AF		CMS	4	10	0.0C	2		0.0	10	50nΔ			50u	4.5	4	8	4	40-11B	MO001AD
69#	HBF4012AE		CMS	4	10	0.0C	4		0.0	10	100nΔ			50u	4.5	4	8	2	40-12B	MO001AB
70#	HBF4012AF		CMS	4	10	0.0C	4		0.0	10	100nΔ			50u	4.5	4	8	2	40-12B	MO001AD
71#	HBF4023AE		CMS	4	10	0.0C	3		0.0	10	50nΔ			50u	4.5	4	8	3	40-23B	MO001AB
72#	HBF4023AF		CMS	4	10	0.0C	3		0.0	10	50nΔ			50u	4.5	4	8	3	40-23B	MO001AD
73#	HCC4068BD		CMS	4	10	0.0	8	1	0.0	10	260nΔ			200m	4.5	5	C	1	40-68B	DL14cd
74#	HCC4068BF		CMS	4	10	0.0	8	1	0.0	10	260nΔ			200m	4.5	5	C	1	40-68B	DL14bd
75#	HCC4068BK		CMS	4	10	0.0	8	1	0.0	10	260nΔ			200m	4.5	5	C	1	40-68B	FP130
76#	HCF4068BE		CMS	4	10	0.0	8	1	0.0	10	260nΔ			200m	4.5	4	8	1	40-68B	DL14w
77#	HCF4068BF		CMS	4	10	0.0	8													

5. GATES

IN ORDER OF (1) TECHNOLOGY (2) TYPE (3) LOGIC (4) LOGIC (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN IN		POWER SUPPLY		PROPAGATION DELAY (S)	RISE TIME (S)	FALL TIME (S)	MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS		
					3 MIN. (V)	4 MAX. (V)	IN	OUT MAX.	NEG. SPAN (V)	POS (V)								LOGIC OR BLOCK	OUTLINE	
1	CD4011BCJ		CMS	4	11*	4.0Δ	2	16e	0.0	15	70nΔ			60u	6.7	4	4	40-11B	DL14az	
2	CD4011BCN		CMS	4	11*	4.0Δ	2	16e	0.0	15	70nΔ			60u	6.7	4	4	40-11B	DL14bt	
3	CD4011BMJ		CMS	4	11*	4.0Δ	2	19e	0.0	15	70nΔ			15u	6.7	5	C	4	40-11B	DL14az
4	CD4011BMW		CMS	4	11*	4.0Δ	2	19e	0.0	15	70nΔ			15u	6.7	5	C	4	40-11B	FP97c
5	CD4023BCJ		CMS	4	11*	4.0Δ	3	16e	0.0	15	70nΔ			500m	6.7	4	8	3	40-23B	DL14az
6	CD4023BCN		CMS	4	11*	4.0Δ	3	16e	0.0	15	70nΔ			500m	6.7	4	8	3	40-23B	DL14bt
7	CD4023BMJ		CMS	4	11*	4.0Δ	3	19e	0.0	15	70nΔ			15u	6.7	5	C	3	40-23B	FP97c
8	CD4023BMW		CMS	4	11*	4.0Δ	3	19e	0.0	15	70nΔ			15u	6.7	5	C	3	40-23B	FP97c
9#	HCC4011BD		CMS	4	11*	4.0Δ	2	16e	0.0	15	80nΔ			15u	2.5*	5	C	4	40-11B	DL14cd
10#	HCC4011BF		CMS	4	11*	4.0Δ	2	16e	0.0	15	80nΔ			15u	2.5*	5	C	4	40-11B	DL14bd
11#	HCC4011BK		CMS	4	11*	4.0Δ	2	16e	0.0	15	80nΔ			15u	2.5*	5	C	4	40-11B	FP130
12#	HCC4012BD		CMS	4	11*	4.0Δ	4	16e	0.0	15	80nΔ			15u	2.5*	5	C	2	40-12B	DL14cd
13#	HCC4012BF		CMS	4	11*	4.0Δ	4	16e	0.0	15	80nΔ			15u	2.5*	5	C	2	40-12B	DL14bd
14#	HCC4012BK		CMS	4	11*	4.0Δ	4	16e	0.0	15	80nΔ			15u	2.5*	5	C	2	40-12B	FP130
15#	HCC4023BD		CMS	4	11*	4.0Δ	3	16e	0.0	15	90nΔ			15u	2.5*	5	C	3	40-23B	DL14cd
16#	HCC4023BF		CMS	4	11*	4.0Δ	3	16e	0.0	15	90nΔ			15u	2.5*	5	C	3	40-23B	DL14bd
17#	HCC4023BK		CMS	4	11*	4.0Δ	3	16e	0.0	15	90nΔ			15u	2.5*	5	C	3	40-23B	FP130
18#	HCF4011BE		CMS	4	11*	4.0Δ	2	16e	0.0	15	80nΔ			15u	2.5*	4	8	4	40-11B	DL14w
19#	HCF4011BF		CMS	4	11*	4.0Δ	2	16e	0.0	15	80nΔ			15u	2.5*	4	8	4	40-11B	DL14bd
20#	HCF4012BE		CMS	4	11*	4.0Δ	4	16e	0.0	15	80nΔ			15u	2.5*	4	8	2	40-12B	DL14bd
21#	HCF4012BF		CMS	4	11*	4.0Δ	4	16e	0.0	15	80nΔ			15u	2.5*	4	8	2	40-12B	DL14bd
22#	HCF4023BE		CMS	4	11*	4.0Δ	3	16e	0.0	15	90nΔ			15u	2.5*	4	8	3	40-23B	DL14w
23#	HCF4023BF		CMS	4	11*	4.0Δ	3	16e	0.0	15	90nΔ			15u	2.5*	4	8	3	40-23B	DL14bd
24#	HEF4011		CMS	4	11*	4.0Δ	2	16e	0.0	15	35nΔ			400m	6.7	4	8	4	40-11B	DL14z
25#	HEF4011BDF		CMS	4	11.0*	4.0Δ	2	16e	0.0	15	35nΔ			400m	6.7	4	8	4	40-11B	DL14bg
26#	HEF4011BPN		CMS	4	11.0*	4.0Δ	2	16e	0.0	15	35nΔ			400m	6.7	4	8	4	40-11B	DL14bv
27#	HEF4011BTD		CMS	4	11.0*	4.0Δ	2	50e	0.0	15	35nΔ			200m	6.7	4	8	4	40-11B	FP147
28#	HEF4011U		CMS	4	11*	4.0Δ	2	16e	0.0	15	35nΔ			400m	6.7	4	8	4	40-11B	DL14z
29#	HEF4011UBDF		CMS	4	11.0*	4.0Δ	2	16e	0.0	15	19n			400m	6.7	4	8	4	G04-530	DL14cy
30#	HEF4011UBPN		CMS	4	11.0*	4.0Δ	2	16e	0.0	15	19n			400m	6.7	4	8	4	G04-530	DL14cx
31#	HEF4011UBTD		CMS	4	11.0*	4.0Δ	2	50e	0.0	15	40nΔ			200m	6.7	4	8	4	G04-530	FP147
32#	HEF4012		CMS	4	11*	4.0Δ	4	16e	0.0	15	50nΔ			400m	6.7	4	8	2	40-12B	DL14z
33#	HEF4012BDF		CMS	4	11.0*	4.0Δ	4	16e	0.0	15	50nΔ			400m	6.7	4	8	2	40-12B	DL14bg
34#	HEF4012BPN		CMS	4	11.0*	4.0Δ	4	16e	0.0	15	50nΔ			400m	6.7	4	8	2	40-12B	DL14bv
35#	HEF4012BTD		CMS	4	11.0*	4.0Δ	4	50e	0.0	15	50nΔ			200m	6.7	4	8	2	G04-479	FP147
36#	HEF4023		CMS	4	11*	4.0Δ	3	16e	0.0	15	45nΔ			400m	6.7	4	8	3	40-23B	DL14z
37#	HEF4023BD		CMS	4	11*	4.0Δ	3	16e	0.0	15	45nΔ			400m	6.7	4	8	3	40-23B	DL14bg
38#	HEF4023BP		CMS	4	11*	4.0Δ	3	16e	0.0	15	45nΔ			400m	6.7	4	8	3	40-23B	DL14bv
39#	HEF4023BT		CMS	4	11.0*	4.0Δ	3	50e	0.0	15	45nΔ			200m	6.7	4	8	3	G04-480	FP147
40#	HEF4068		CMS	4	11*	4.0Δ	8	16e	0.0	15	65nΔ			400m	6.7	4	8	1	40-68B	DL14z
41#	HEF4068BDF		CMS	4	11.0*	4.0Δ	8	16e	0.0	15	65nΔ			400m	6.7	4	8	1	G04-472	DL14bg
42#	HEF4068BPN		CMS	4	11.0*	4.0Δ	8	16e	0.0	15	65nΔ			400m	6.7	4	8	1	G04-472	DL14bv
43#	HEF4068BTD		CMS	4	11.0*	4.0Δ	8	50e	0.0	15	65nΔ			200m	6.7	4	8	1	G04-472	FP147
44#	LC4012B		CMS	4	11.0	4.0	4	50e	0.5	20	80n	160n	80n	300m	4.0	4	8	2	G04-404	DL14cj
45#	M4011BP		CMS	4	11*	4.0	4	125nΔ	0.0	18	125nΔ	160n	80n	500m	4.0	4	8	4	G04-478	DL14cf
46#	M4012BP		CMS	4	11*	4.0	4	160nΔ	0.0	18	160nΔ	160n	80n	500m	4.0	4	8	2	G04-479	DL14cf
47#	M4023BP		CMS	4	11*	4.0	4	160nΔ	0.0	18	160nΔ	160n	80n	500m	4.0	4	8	3	G04-480	DL14cf
48#	MC14011BAL		CMS	4	11*	4.0Δ	2	50	0.0	15	80nΔ	80n	80n	15u	2.5*	5	C	4	40-11B	TO116
49	MC14011BCL		CMS	4	11*	4.0Δ	2	50	0.0	15	80nΔ	80n	80n	60u	2.5*	4	8	4	40-11B	TO116
50	MC14011BCP		CMS	4	11*	4.0Δ	2	50	0.0	15	80nΔ	80n	80n	60u	2.5*	4	8	4	40-11B	TO116
51	MC14012BAL		CMS	4	11*	4.0Δ	4	50	0.0	15	100nΔ	80n	80n	15u	2.5*	5	C	2	40-12B	TO116
52	MC14012BCL		CMS	4	11*	4.0Δ	4	50	0.0	15	100nΔ	80n	80n	60u	2.5*	4	8	2	40-12B	TO116
53	MC14012BCP		CMS	4	11*	4.0Δ	4	50	0.0	15	100nΔ	80n	80n	60u	2.5*	4	8	2	40-12B	TO116
54	MC14023BAL		CMS	4	11*	4.0Δ	3	50	0.0	15	100nΔ	80n	80n	15u	2.5*	5	C	3	40-23B	TO116
55	MC14023BCL		CMS	4	11*	4.0Δ	3	50	0.0	15	100nΔ	80n	80n	60u	2.5*	4	8	3	40-23B	TO116
56	MC14023BCP		CMS	4	11*	4.0Δ	3	50	0.0	15	100nΔ	80n	80n	60u	2.5*	4	8	3	40-23B	TO116
57	MC14068BAL		CMS	4	11*	4.0Δ	8	50	0.0	15	120nΔ	80n	80n	15u	2.5*	5	C	1	40-68B	TO116
58	MC14068BCL		CMS	4	11*	4.0Δ	8	50	0.0	15	120nΔ	80n	80n	60u	2.5*	4	8	1	40-68B	TO116
59	MC14068BCP		CMS	4	11*	4.0Δ	8	50	0.0	15	120nΔ	80n	80n	60u	2.5*	4	8	1	40-68B	TO116
60#	SCL4093BC		CMS	4	11.0	4.0	8	50	0.5	18	380n	80n	80n	300m	4.0	5	C	4	40-11B	MO-001a
61#	SCL4093BD		CMS	4	11.0	4.0	8	50	0.5	18	380n	80n	80n	300m	4.0	5	C	4	40-11B	DL14jz
62#	SCL4093BE		CMS	4	11.0	4.0	8	50	0.5	18	380n	80n	80n	300m	4.0	4	8	4	40-11B	MO-001h
63#	SCL4093BF		CMS	4	11.0	4.0	8	50	0.5	18	380n	80n	80n	300m	4.0	5	C	4	40-11B	FP147
64#	SCL4093BH		CMS	4	11.0	4.0	8	50	0.5	18	380n	80n	80n	300m	4.0	5	C	4	40-11B	CH147
65#	M4011UBP		CMS	4	12*	3.0	2	18e	0.0	18	80nΔ	160n	80n	500m	4.0	4	8	4	G04-478	DL14cf
66#	CD4011UBD		CMS	4	12.5*	2.5Δ	2	18e	0.0	15	50nΔ			500m	2.5*	5	C	4	40-11B	MO001AD
67	CD4011UBF		CMS	4	12.5*	2.5Δ	2	18e	0.0	15	50nΔ			500m	2.5*	5	C	4	40-11B	MO001AD
68	CD4011UBG		CMS	4	12.5*	2.5Δ	2	18e	0.0	15	50nΔ			500m	2.5*	5	C	4	40-11B	MO001AD
69	CD4012UBD		CMS	4	12.5*	2.5Δ	4	18e	0.0	15	50nΔ			500m	2.5*	5	C	2	40-12B	MO001AD
70	CD4012UBF		CMS	4	12.5*	2.5Δ	4	18e	0.0	15	50nΔ			500m	2.5*	5	C	2	40-12B	MO001AB
71	CD4012UBG		CMS	4	12.5*	2.5Δ	4	18e	0.0	15	50nΔ			500m	2.5*	5	C	2	40-12B	MO001AB
72	CD4023UBD		CMS	4	12.5*	2.5Δ	3	18e	0.0	15	50nΔ			500m	2.5*	5	C	3	40-23B	MO001AD
73	CD4023UBF		CMS	4	12.5*	2.5Δ	3	18e	0.0	15	50nΔ			500m	2.5*	5	C	3	40-23B	MO001AB
74	CD4023UBG		CMS	4	12.5*	2.5Δ	3	18e	0.0	15	50nΔ			500m	2.5*	5	C	3	40-23B	MO001AB
75	MC14011UBAL		CMS	4	12.5*	2.5Δ	2	1												

5. GATES

IN ORDER OF:(1)TECHNOLOGY(2)TYPE(3)LOGIC(1)
(4)LOGIC(5)TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN IN		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS				
					3 MIN. '1' (V)	4 MAX. '0' (V)	IN	OUT MAX.		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE			
1	JANM38510/05303BAC		CMS	5	3.95*	.85	2	0.0	5.0	270nΔ		200m		5	C	4	54L86T	FP115		
2	JANM38510/05303BCA		CMS	5	3.95*	.85	2	0.0	5.0	270nΔ		200m		5	C	4	74L86N	DL14bo		
3	JANM38510/05303BCB		CMS	5	3.95*	.85	2	0.0	5.0	270nΔ		200m		5	C	4	74L86N	DL14bo		
4	JANM38510/05303BCC		CMS	5	3.95*	.85	2	0.0	5.0	270nΔ		200m		5	C	4	74L86N	DL14bo		
5	JANM38510/05303CAA		CMS	5	3.95*	.85	2	0.0	5.0	270nΔ		200m		5	C	4	54L86T	FP115		
6	JANM38510/05303CAB		CMS	5	3.95*	.85	2	0.0	5.0	270nΔ		200m		5	C	4	54L86T	FP115		
7	JANM38510/05303CAC		CMS	5	3.95*	.85	2	0.0	5.0	270nΔ		200m		5	C	4	54L86T	FP115		
8	JANM38510/05303CCA		CMS	5	3.95*	.85	2	0.0	5.0	270nΔ		200m		5	C	4	74L86N	DL14bo		
9	JANM38510/05303CCB		CMS	5	3.95*	.85	2	0.0	5.0	270nΔ		200m		5	C	4	74L86N	DL14bo		
10#	TC40H386P		CMS	5	4.0*	1.0Δ	2	50	0.0	15	38nΔ	35n	30n		4	8	4	40H386	DL14ch	
11	MM4630AD		CMS	5	4.99*	.01ΔC	2	0.0	5.0	100n		500m	450m	5	C	4	74L86N	DL14bi		
12	MM4630AF		CMS	5	4.99*	.01ΔC	2	0.0	5.0	100n		500m	450m	5	C	4	74L86N	FP98		
13	MM5630AN		CMS	5	4.99*	.01ΔC	2	0.0	5.0	100n		500m	450m	4	8	4	G05-117	DL14bt		
14#	HEF4030P		CMS	5	7.0*	3.0Δ	2	0.0	10	90nΔ		100u%	4.5	4	8	4	74L86N	TO116		
15#	HEF4070P		CMS	5	7.0*	3.0Δ	2	0.0	10	90nΔ		100u%	4.5	4	8	4	74L86N	TO116		
16#	MSM4030		CMS	5	7.2*	2.0Δ	2	16e	0.0	10	150nΔ	120n	120n	300u%	2.0 *	2	7	G05-126	DL14cg	
17	883/4030B		CMS	5	8.21	6.7	8	0.0	15	100n		300m		5	C	4	74L86	MO001AA		
18	883/4070B		CMS	5	8.21	6.7	8	0.0	15	100n		300m		5	C	4	74L86	MO001AA		
19	SCL4030B		CMS	5	9.95*	.05ΔC	2	50	0.0	10	140nΔ		1.0u%	3.0	5	C	4	74L86N	MO001AA	
20	SCL4070B		CMS	5	9.95*	.05ΔC	2	50	0.0	10	140nΔ		1.0u%	3.0	5	C	4	74L86N	MO001AA	
21	CD4030AF		CMS	5	9.99*	.01ΔC	2	0.0	10	100nΔ		10u%	4.5	5	C	4	74L86N	MO001AB		
22	CD4030CJ		CMS	5	9.99*	.01ΔC	2	1.3e	0.0	10	150nΔ		100u%	4.5	4	8	4	74L86N	DL14az	
23	CD4030CN		CMS	5	9.99*	.01ΔC	2	1.3e	0.0	10	150nΔ		100u%	4.5	4	8	4	74L86N	DL14bt	
24	CD4030MJ		CMS	5	9.99*	.01ΔC	2	2.7e	0.0	10	100nΔ		10u%	4.5	5	C	4	74L86N	DL14az	
25	CD4030MW		CMS	5	9.99*	.01ΔC	2	2.7e	0.0	10	100nΔ		10u%	4.5	5	C	4	74L86N	FP97c	
26#	HCC4070BD		CMS	5	9.99*	.01ΔC	2	0.0	10	70n		200m	4.5	5	C	4	74L86N	DL14cd		
27#	HCC4070BF		CMS	5	9.99*	.01ΔC	2	0.0	10	70n		200m	4.5	5	C	4	74L86N	DL14bd		
28#	HCC4070BK		CMS	5	9.99*	.01ΔC	2	0.0	10	70n		200m	4.5	5	C	4	54L86T	FP130		
29#	HCF4070BE		CMS	5	9.99*	.01ΔC	2	0.0	10	70n		200m	4.5	4	8	4	74L86N	DL14w		
30#	HCF4070BF		CMS	5	9.99*	.01ΔC	2	0.0	10	70n		200m	4.5	4	8	4	74L86N	DL14bd		
31#	SFF24030AEV		CMS	5	9.99*	.01ΔC	2	0.0	10	100nΔ	75n	75n	200m	3.0 *	4	8	4	74L86N	TO116	
32#	SFF24030AKM		CMS	5	9.99*	.01ΔC	2	0.0	10	100nΔ	75n	75n	200m	3.0 *	4	8	4	74L86N	TO116	
33	CD4030AD		CMS	5	10	0.0C	2	50	0.0	10	100nΔ		10u%	4.5	5	C	4	74L86N	MO001AD	
34	CD4030AE		CMS	5	10	0.0C	2	50	0.0	10	150nΔ		100u%	4.5	4	8	4	74L86N	MO001AD	
35#	HBC4030AD		CMS	5	10	0.0C	2	50	0.0	10	100nΔ		10u%	4.5	5	C	4	74L86N	MO001AD	
36#	HBC4030AF		CMS	5	10	0.0C	2	50	0.0	10	100nΔ		10u%	4.5	5	C	4	74L86N	MO001AD	
37#	HBC4030AK		CMS	5	10	0.0C	2	50	0.0	10	100nΔ		10u%	4.5	5	C	4	54L86T	MO004AF	
38#	HBF4030AE		CMS	5	10	0.0C	2	50	0.0	10	150nΔ		100u%	4.5	4	8	4	74L86N	MO001AB	
39#	HBF4030AF		CMS	5	10	0.0C	2	50	0.0	10	150nΔ		100u%	4.5	4	8	4	74L86N	MO001AD	
40#	MB84070B		CMS	5	10.5*	4.5Δ	2	16e	0.0	15	100nΔ	80n	80n	60u%	4.5 *	4	8	4	74L86	DL14cc
41#	MB84070BM		CMS	5	10.5*	4.5Δ	2	16e	0.0	15	100nΔ	80n	80n	60u%	4.5 *	4	8	4	74L86	DL14bn
42	4030BDC		CMS	5	11*	4.0Δ	2	25e	0.0	15	72nΔ		450u%	6.7	4	8	4	74L86N	TO116	
43	4030BDM		CMS	5	11*	4.0Δ	2	25e	0.0	15	72nΔ		450u%	6.7	5	C	4	74L86N	TO116	
44	4030BFC		CMS	5	11*	4.0Δ	2	25e	0.0	15	72nΔ		450u%	6.7	4	8	4	54L86T	FP21h	
45	4030BFM		CMS	5	11*	4.0Δ	2	25e	0.0	15	72nΔ		450u%	6.7	5	C	4	54L86T	FP21h	
46	4030BPC		CMS	5	11*	4.0Δ	2	25e	0.0	15	72nΔ		450u%	6.7	4	8	4	74L86N	DL14ce	
47	4070BDC		CMS	5	11*	4.0Δ	2	25e	0.0	15	72nΔ		450u%	6.7	4	8	4	74L86N	TO116	
48	4070BDM		CMS	5	11*	4.0Δ	2	25e	0.0	15	72nΔ		450u%	6.7	5	C	4	74L86N	TO116	
49	4070BFC		CMS	5	11*	4.0Δ	2	25e	0.0	15	72nΔ		450u%	6.7	4	8	4	54L86T	FP21h	
50	4070BFM		CMS	5	11*	4.0Δ	2	25e	0.0	15	72nΔ		450u%	6.7	5	C	4	54L86T	FP21h	
51	4070BPC		CMS	5	11*	4.0Δ	2	25e	0.0	15	72nΔ		450u%	6.7	4	8	4	74L86N	DL14ce	
52	CD4030BD		CMS	5	11*	4.0Δ	2	18e	0.0	15	100nΔ		500m	4.0 *	5	C	4	74L86N	MO001AD	
53	CD4030BE		CMS	5	11*	4.0Δ	2	18e	0.0	15	100nΔ		500m	4.0 *	4	8	4	74L86N	MO001AB	
54	CD4030BF		CMS	5	11*	4.0Δ	2	18e	0.0	15	100nΔ		500m	4.0 *	5	C	4	74L86N	MO001AB	
55	CD4070BCJ		CMS	5	11*	4.0Δ	2	16e	0.0	15	80nΔ		60u%	6.7	4	8	4	74L86N	DL14az	
56	CD4070BCN		CMS	5	11*	4.0Δ	2	16e	0.0	15	80nΔ		60u%	6.7	4	8	4	74L86N	DL14bt	
57	CD4070BD		CMS	5	11*	4.0Δ	2	18e	0.0	15	100nΔ		500m	4.0 *	5	C	4	74L86N	MO001AD	
58	CD4070BE		CMS	5	11*	4.0Δ	2	18e	0.0	15	100nΔ		500m	4.0 *	4	8	4	74L86N	MO001AB	
59	CD4070BF		CMS	5	11*	4.0Δ	2	18e	0.0	15	100nΔ		500m	4.0 *	5	C	4	74L86N	MO001AB	
60	CD4070BMJ		CMS	5	11*	4.0Δ	2	19e	0.0	15	80nΔ		15u%	6.7	5	C	4	74L86N	DL14az	
61	CD4070BMW		CMS	5	11*	4.0Δ	2	19e	0.0	15	80nΔ		15u%	6.7	5	C	4	74L86N	FP97c	
62#	HEF4030		CMS	5	11*	4.0Δ	2	16e	0.0	15	55nΔ		400m	6.7	4	8	4	G05-126	DL14j	
63#	HEF4030BDF		CMS	5	11.0*	4.0Δ	2	16e	0.0	15	55nΔ		400m	6.7	4	8	4	G05-126	DL14bg	
64#	HEF4030BPN		CMS	5	11.0*	4.0Δ	2	16e	0.0	15	55nΔ		400m	6.7	4	8	4	G05-126	DL14bv	
65#	HEF4030BTD		CMS	5	11.0*	4.0Δ	2	50e	0.0	15	55nΔ		200m	6.7	4	8	4	G05-126	FP147	
66#	HEF4070		CMS	5	11*	4.0Δ	2	16e	0.0	15	55nΔ		400m	6.7	4	8	4	74L86N	DL14j	
67#	HEF4070BDF		CMS	5	11.0*	4.0Δ	2	16e	0.0	15	55nΔ		400m	6.7	4	8	4	G05-126	DL14bg	
68#	HEF4070BPN		CMS	5	11.0*	4.0Δ	2	16e	0.0	15	55nΔ		400m	6.7	4	8	4	G05-126	DL14bv	
69#	M4030BP		CMS	5	11*	4.0	2	18e	0.0	18	120nΔ	160n	80n	500m	4.0	4	8	4	G05-126	DL14cf
70	MC14070BAL		CMS	5	11*	4.0Δ	2	50	0.0	15	100nΔ	80n	80n	15u%	2.5 *	5	C	4	74L86N	TO116
71	MC14070BCL		CMS	5	11*	4.0Δ	2	50	0.0	15	100nΔ	80n	80n	60u%	2.5 *	4	8	4	74L86N	TO116
72	MC14070BCD		CMS	5	11*	4.0Δ	2	50	0.0	15	100nΔ	80n	80n	60u%	2.5 *	4	8	4	74L86N	TO116
73#	HCC4030BD		CMS	5	12*	3.0Δ	2	0.0	18	45n	20n†	20n†	200m†	2.5 *	5	C	4	74L86N	DL14cv	
74#	HCC4030BF		CMS	5	12*	3.0Δ	2	0.0	18	45n	20n†	20n†	200m†	2.5 *	5	C	4	74L86N	DL14bd	
75#	HCC4030BK		CMS	5	12*	3.0Δ	2	0.0	18	45n	20n†	20n†	200m†	2.5 *	5	C	4	54L86T	FP130	
76#	HCF4030BE		CMS	5	12*	3.0Δ	2	18e	0.0	15	100nΔ		200m†	4.0 *	4	8	4	74L86N	DL14w	
77#	HCF4030BF		CMS	5	12*	3.0Δ	2	18e	0.0	15	100nΔ		200m†	4.0 *	4	8	4	74L86N	DL14bd	
78#	TC4030BP		CMS	5	14.9*	.05ΔC	2	50	0.0	15	120									

5. GATES

IN ORDER OF:(1)TECHNOLOGY(2)TYPE(3)LOGIC*
(4)LOGIC*(5)TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN IN		POWER SUPPLY SPAN		PROPAGA- DELAY (S)	RISE TIME (S)	FALL TIME (S)	MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS	
					3 MIN. '1' (V)	4 MAX. '0' (V)	IN	OUT MAX.	NEG. (V)	POS (V)								LOGIC OR BLOCK	OUTLINE
1	CD4077BD		CMS	7	11*	4.0Δ	2	18e	0.0	15	100nΔ			500m	4.0 *	5	4	MO001AD	
2	CD4077BE		CMS	7	11*	4.0Δ	2	18e	0.0	15	100nΔ			500m	4.0 *	4	4	MO001AB	
3	CD4077BF		CMS	7	11*	4.0Δ	2	18e	0.0	15	100nΔ			500m	4.0 *	5	4	MO001AB	
4#	HEF4077		CMS	7	11*	4.0Δ	2	16e	0.0	15	55nΔ			400m	6.7	4	8	G07-5	DL14b
5▼	HEF4077BDF		CMS	7	11.0*	4.0Δ	2	16e	0.0	15	50nΔ			400m	6.7	4	8	G07-5	DL14bg
6▼	HEF4077BPN		CMS	7	11.0*	4.0Δ	2	16e	0.0	15	50nΔ			400m	6.7	4	8	G07-5	DL14bv
7▼	HEF4077BTD		CMS	7	11.0*	4.0Δ	2	50e	0.0	15	50nΔ			200m	6.7	4	8	G07-5	FP147
8	MC14077BAL		CMS	7	11*	4.0Δ	2	50	0.0	15	100nΔ	80n	80n	15u%	2.5 *	5	4	G07-5	TO116
9	MC14077BCL		CMS	7	11*	4.0Δ	2	50	0.0	15	100nΔ	80n	80n	60u%	2.5 *	4	8	G07-5	TO116
10	MC14077BCP		CMS	7	11*	4.0Δ	2	50	0.0	15	100nΔ	80n	80n	60u%	2.5 *	4	8	G07-5	TO116
11	MC74HC266J#ai		CMS	7.0	3.85	1.1	.0	4.0	0.5	7.0	30n	500n	500n	500m	10	4	8	G07-5	DL14Z
12	MC74HC266N#ai		CMS	7.0	3.85	1.1	.0	4.0	0.5	7.0	30n	500n	500n	500m	10	4	8	G07-5	DL14Z
13	MC54HCU04J(A)		CMS	8	3.2	1.1	1	8	0.5	7.0	17n	500n	500n	500m	1.1	5	6	G08-18	DL14Z
14	MC74HCU04J		CMS	8	3.2	1.1	1	10	0.5	7.0	17n	500n	500n	500m	1.1	4	6	G08-18	DL14Z
15	MC74HCU04N(A)		CMS	8	3.2	1.1	1	10	0.5	7.0	17n	500n	500n	500m	1.1	4	6	G08-18	DL14Z
16	CD4502BD		CMS	8	3.5*	1.5Δ	2	2	0.0	18	180n	20n	20n	500m	1.0	5	6	G08-07	DLZ
17	CD4502BE		CMS	8	3.5*	1.5Δ	2	2	0.0	18	180n	20n	20n	500m	1.0	4	6	G08-07	DLZ
18	CD4502BF		CMS	8	3.5*	1.5Δ	2	2	0.0	18	180n	20n	20n	500m	1.0	5	6	G08-07	DLZ
19▼	HEF4069UBDF		CMS	8	3.5	1.5	6	6	0.5	18	15n	1.0u	1.0u	400m		4	8	40-69	DL14cy
20▼	HEF4069UBPN		CMS	8	3.5	1.5	6	6	0.5	18	15n	1.0u	1.0u	400m		4	8	40-69	DL14cx
21▼	HEF4069UBTD		CMS	8	3.5	1.5	6	6	0.5	18	15n	1.0u	1.0u	400m		4	8	40-69	FP147
22#	LC4049B		CMS	8	3.5*	1.5Δ	2	2	0.5	20	40n	40n	20n	300m		4	8	G08-12	DL16du
23#	LC4050B		CMS	8	3.5*	1.5Δ	2	2	0.5	20	25n	40n	20n	300m		6	8	G08-21	DL16du
24#	LC4050BM		CMS	8	3.5*	1.5Δ	2	2	0.5	20	25n	40n	20n	150m		4	8	FP152	DL16du
25#	MSM4007FRS		CMS	8	3.5*	1.5Δ	2	2	0.3	16	300n	200n	200n	200m	1.5	4	8	G08-04	DL14Z
26#	MSM508RS		CMS	8	3.6*	0.8Δ	1	40e	0.0	7.0	80n	200n	200n	200m	0.6	3	8	G08-14	DL14db
27#	MSM509RS		CMS	8	3.6*	0.8Δ	1	40e	0.0	7.0	80n	200n	200n	200m	0.6	3	8	G08-15	DL14db
28#	MSM4069RS		CMS	8	3.6*	0.9Δ*	1	40	0.3	16	240n	200n	200n	500m	0.5	4	8	G08-04	DLZ
29	CD4007UBD		CMS	8	4.0*	1.0Δ	2	2	0.0	18	110nΔ	20n	20n	500m		5	6	G08-04	DLZ
30	CD4007UBE		CMS	8	4.0*	1.0Δ	2	2	0.0	18	110nΔ	20n	20n	500m		4	8	G08-04	DLZ
31	CD4007UBF		CMS	8	4.0*	1.0Δ	2	2	0.0	18	110nΔ	20n	20n	500m		5	6	G08-04	DLZ
32	CD4069UBD		CMS	8	4.0*	1.0Δ	2	2	0.0	18	110nΔ	20n	20n	500m	1.0	4	8	G08-04	DLZ
33	CD4069UBF		CMS	8	4.0*	1.0Δ	2	2	0.0	18	110nΔ	20n	20n	500m	1.0	4	8	G08-04	DLZ
34	CD4069UBJ		CMS	8	4.0*	1.0Δ	2	2	0.0	18	110nΔ	20n	20n	500m	1.0	5	6	G08-04	DLZ
35#	HD14007UB		CMS	8	4.0*	1.0Δ	2	27e	0.0	15	60n	180n	150n	300m		4	8	G08-04	DL14cz
36#	LC4069UBM		CMS	8	4.0*	1.0Δ	2	2	0.5	20	35n	50n	40n	150m		4	8	G08-6	FP151
37#	LC4969		CMS	8	4.0*	1.0Δ	2	2	0.5	20	35n	50n	40n	150m		4	8	G08-17	DL8f
38#	TC40H004P		CMS	8	4.0*	1.0Δ	6	50	0.0	10	15n	30n	30n	300m		4	8	40H004	DL14ch
39	CD4007AD		CMS	8	4.95*	.05CΔ	2	2	0.0	12	60nΔ	20n	20n	500m	1.0	5	6	G08-04	DLZ
40	CD4007AE		CMS	8	4.95*	.05CΔ	2	2	0.0	12	75nΔ	20n	20n	500m	1.0	4	8	G08-04	DLZ
41	CD4007AF		CMS	8	4.95*	.05CΔ	2	2	0.0	12	60nΔ	20n	20n	500m	1.0	5	6	G08-04	DLZ
42	CD4069C		CMS	8	7.0	3.0			0	15	50n	20n	20n	500m	4.5	4	8	G08-04	DLZ
43	CD4069M		CMS	8	7.0	3.0			0	15	50n	20n	20n	500m	4.5	5	6	G08-04	DLZ
44	883/4069UB		CMS	8	8.2	6.7	6	6	0.0	15	40n	300m	300m	300m		5	6	G08-04	DLZ
45	883/4449UB		CMS	8	8.2	6.7	6	6	0.0	15	40n	300m	300m	300m		5	6	G08-04	DLZ
46	SCL4069UB		CMS	8	8.2	6.7	6	6	0.0	15	40n	300m	300m	300m		5	6	G08-04	DLZ
47	SCL4449UB		CMS	8	8.2	6.7	6	6	0.0	15	40n	300m	300m	300m		5	6	G08-04	DLZ
48	CD4007C		CMS	8	9.95	.01			0	15	20n	20n	20n	500m	4.5	4	8	G08-08	DLZ
49	CD4007M		CMS	8	9.95	.01			0	15	20n	20n	20n	500m	4.5	5	6	G08-08	DLZ
50▼	883/4584BC		CMS	8	11.0	4.0			0.5	18	150n	300m	300m	300m	4.0	6	8	G08-05	MO-001a
51▼	883/4584BD		CMS	8	11.0	4.0			0.5	18	150n	300m	300m	300m	4.0	5	6	G08-05	DL14Z
52▼	883/4584BE		CMS	8	11.0	4.0			0.5	18	150n	300m	300m	300m	4.0	4	8	G08-05	MO-001h
53▼	883/4584BF		CMS	8	11.0	4.0			0.5	18	150n	300m	300m	300m	4.0	5	6	G08-05	FP1Z
54▼	883/4584BH		CMS	8	11.0	4.0			0.5	18	150n	300m	300m	300m	4.0	5	6	G08-05	CHZ
55▼	SCL4584BC		CMS	8	11.0	4.0			0.5	18	150n	300m	300m	300m	4.0	5	6	G08-05	MO-001a
56▼	SCL4584BD		CMS	8	11.0	4.0			0.5	18	150n	300m	300m	300m	4.0	5	6	G08-05	MO-001a
57▼	SCL4584BE		CMS	8	11.0	4.0			0.5	18	150n	300m	300m	300m	4.0	4	8	G08-05	MO-001h
58▼	SCL4584BF		CMS	8	11.0	4.0			0.5	18	150n	300m	300m	300m	4.0	5	6	G08-05	FP1Z
59▼	SCL4584BH		CMS	8	11.0	4.0			0.5	18	150n	300m	300m	300m	4.0	5	6	G08-05	CHZ
60	MC14069UBAP#mil		CMS	8.0	12.5	2.5	.0	6.0	0.5	18	125n	200n	200n	200m	2.5	5	6	G08-04	DL14Z
61	MC14069UBCL		CMS	8.0	12.5	2.5	.0	6.0	0.5	18	125n	200n	200n	200m	2.5	4	8	G08-04	DL14Z
62	MC14069UBCP		CMS	8.0	12.5	2.5	.0	6.0	0.5	18	125n	200n	200n	200m	2.5	4	8	G08-04	DL14Z
63	N8731A		DDL	6			2									0	7	G06-152	TO116
64	N8731F		DDL	6			2									0	7	G06-152	DL14ad
65	N8731J		DDL	6			2									0	7	G06-152	TO88
66	SP305A		DTL	1			6	1	0.0	5.5	35n		5.0m	1.0	0	7		DL14b	
67	SP306A		DTL	1			3	1	0.0	5.5	35n		5.0m	1.0	0	7		DL14b	
68	MC1906F		DTL	1	2.6*	.40CΔ	2	8	0.0	5.0	30n	10n	10n		5	6	54S08w	TO86	
69	MC1906L		DTL	1	2.6*	.40CΔ	2	8	0.0	5.0	30n	10n	10n		5	6	74-08N	TO116	
70	MC1907F		DTL	1	2.6*	.40CΔ	2	7	0.0	5.0	35n	10n	10n		5	6	54S08w	TO86	
71	MC1907L		DTL	1	2.6*	.40CΔ	2	7	0.0	5.0	35n	10n	10n		5	6	74-08N	TO116	
72	MC1806L P%		DTL	1	2.6*	.45CΔ	2	8	0.0	5.0	30n	10n	10n		0	7	G01-210	TO116	
73	MC1807L P%		DTL	1	2.6*	.45CΔ	2	7	0.0	5.0	35n	10n	10n		0	7	G01-210	TO116	
74#	FZH251		DTL	1	7.5*	4.5Δ	3	10	0.0	12	260n	340n†	120n†	216m	5.0	0	7	G01-234	DL16k
75#	H109D1		DTL	1	8.0*	6.0Δ	5	25	0.0	20	250nΔ			240m	5.0	0	7	G02-177	DL14av
76#	H109D2		DTL	1	8.0*	6.0Δ	5	25	0.0	16	250nΔ			152m	5.0	5	6	G02-177	DL14by
77#	H109D6		DTL	1	8.0*	6.0Δ	5	25	0.0	16	250nΔ			152m	5.0	4	8	G02-177	DL14bz
78#	H209B1		DTL	1	8.0*	6.0Δ	5	200	0.0	16	250nΔ			500m	5.0	0	7	G02-177	TO116
79#	FZH255B		DTL	1	7.5*	4.5Δ	3	10											

5. GATES

IN ORDER OF:(1)TECHNOLOGY(2)TYPE(3)LOGIC*1
(4)LOGIC*5)TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		IN	OUT MAX.	POWER SUPPLY SPAN		PROPAGATION DELAY (S)	RISE TIME (S)	FALL TIME (S)	MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS				
					3 MIN. (V)	4 MAX. (V)			NEG. (V)	POS (V)								LOGIC OR BLOCK	OUTLINE			
1#	FZH295B		DTL	2		30Δ	4.5Δ	3	10	0.0	12	260n	340n†	120n†	288m	5.0	2	8	4	G02-188	DL16k	
2#	ZN229		DTL	3				5	5	0.0												
3#	SP381A		DTL	3			.80ΔC	2	5	0.0	5.0	60nΔ									G03-270	TO116
4#	ZN224E		DTL	3		.20		2	8	0.0	5.0	9.0n		19m	1.0	5	C	4	4		DL14m	
5#	ZN229E		DTL	3		.20		5	8	0.0	5.0	9.0n		19m	1.0	5	C	4	2		DL14m	
6#	ZN224		DTL	3		.20	4.0	2	8	0.0	5.0	9.0n		19m	1.0	5	C	4	4		TO88	
7#	ZN230		DTL	3		.20	4.0	5	8	0.0	5.0	9.0n		19m	1.0	5	C	2	2		TO88	
8#	ZN230E		DTL	3		.20	4.0	5	8	0.0	5.0	9.0n		19m	1.0	5	C	2	2		DL14m	
9#	ZN232		DTL	3		.20	4.0	5	8	0.0	5.0	9.0n		19m	1.0	5	C	2	2		TO88	
10#	ZN232E		DTL	3		.20	4.0	5	8	0.0	5.0	9.0n		19m	1.0	5	C	2	2		DL14m	
11#	ZN244		DTL	3		.20	4.0	5	8	0.0	5.0	9.0n		19m	1.0	5	C	2	2		TO88	
12#	ZN244E		DTL	3		.20	4.0	5	8	0.0	5.0	9.0n		19m	1.0	5	C	2	2		DL14m	
13#	ZN246		DTL	3		.20	4.0	2	8	0.0	5.0	9.0n		19m	1.0	5	C	4	4		TO88	
14#	ZN246E		DTL	3		.20	4.0	2	8	0.0	5.0	9.0n		19m	1.0	5	C	4	4		DL14m	
15#	ZN262		DTL	3		.20	4.0	3	8	0.0	5.0	9.0n		19m	1.0	5	C	3	3		TO88	
16#	ZN262E		DTL	3		.20	4.0	3	8	0.0	5.0	9.0n		19m	1.0	5	C	3	3		DL14m	
17#	ZN324		DTL	3		.20	4.0	2	8	0.0	5.0	15n		19m	1.0	5	C	4	4		TO88	
18#	ZN324E		DTL	3		.20	4.0	2	8	0.0	5.0	15n		19m	1.0	5	C	4	4		DL14m	
19#	ZN329		DTL	3		.20	4.0	8	8	0.0	5.0	16n		19m	1.0	5	C	7	7		TO88	
20#	ZN329E		DTL	3		.20	4.0	8	8	0.0	5.0	16n		19m	1.0	5	C	7	7		TO88	
21#	ZN330		DTL	3		.20	4.0	5	8	0.0	5.0	15n		19m	1.0	5	C	2	2		TO88	
22#	ZN330E		DTL	3		.20	4.0	5	8	0.0	5.0	15n		19m	1.0	5	C	2	2		DL14m	
23#	ZN332		DTL	3		.20	4.0	5	8	0.0	5.0	15n		19m	1.0	5	C	2	2		TO88	
24#	ZN332E		DTL	3		.20	4.0	5	8	0.0	5.0	15n		19m	1.0	5	C	2	2		DL14m	
25#	ZN344		DTL	3		.20	4.0	5	8	0.0	5.0	15n		19m	1.0	5	C	2	2		TO88	
26#	ZN344E		DTL	3		.20	4.0	5	8	0.0	5.0	15n		19m	1.0	5	C	2	2		DL14m	
27#	ZN346		DTL	3		.20	4.0	2	8	0.0	5.0	15n		19m	1.0	5	C	4	4		TO88	
28#	ZN346E		DTL	3		.20	4.0	2	8	0.0	5.0	15n		19m	1.0	5	C	4	4		DL14m	
29#	ZN362		DTL	3		.20	4.0	3	8	0.0	5.0	15n		19m	1.0	5	C	3	3		TO88	
30#	ZN362E		DTL	3		.20	4.0	3	8	0.0	5.0	15n		19m	1.0	5	C	3	3		DL14m	
31#	ZSD81A		DTL	3		.20	4.0	5	8	0.0	5.0	9.0n		19m	1.0	5	C	7	7	1	G06-86a	CN2
32#	ZSS59A		DTL	3		.20	4.0	8	8	0.0	5.0	9.0n		19m	1.0	5	C	7	7		CN2	
33#	ZSS59B		DTL	3		.20	4.0	8	8	0.0	5.0	9.0n		19m	1.0	5	C	7	7		CN2	
34#	ZSS89A		DTL	3		.20	4.0	8	8	0.0	5.0	9.0n		19m	1.0	5	C	7	7		CN2	
35#	ZSS89B		DTL	3		.20	4.0	8	8	0.0	5.0	9.0n		19m	1.0	5	C	7	7		CN2	
36#	MC1801L P%		DTL	3		.26*	.45ΔC	2	8	0.0	5.0	30n		75m	1.0	5	C	7	7	4	G02-137	TO116
37#	SN151810N		DTL	3		1.9*	1.1Δ	2	8	0.0	5.0	90nΔ		20m†	0.7	5	C	4	4		DL14n	
38#	SN151811N		DTL	3		1.9*	1.1Δ	2	8	0.0	5.0	75nΔ		20m†	0.7	5	C	4	4		DL14n	
39#	SN151910N		DTL	3		2.0*	1.1Δ	2	8	0.0	5.0	90nΔ		20m†	0.7	5	C	4	4		DL14n	
40#	SN151911N		DTL	3		2.0*	1.1Δ	2	8	0.0	5.0	75nΔ		20m†	0.7	5	C	4	4		DL14n	
41#	MC1910F		DTL	3		2.6*	.40ΔC	2	8	0.0	5.0	30n		75m	1.0	5	C	4	4		G02-137	
42#	MC1910L		DTL	3		2.6*	.40ΔC	2	8	0.0	5.0	30n		75m	1.0	5	C	4	4		G02-137	
43#	MC1911F		DTL	3		2.6*	.40ΔC	2	7	0.0	5.0	25n		100m	1.0	5	C	4	4		G02-137	
44#	MC1911L		DTL	3		2.6*	.40ΔC	2	7	0.0	5.0	25n		100m	1.0	5	C	4	4		G02-137	
45#	MC1810L P%		DTL	3		2.6*	.45ΔC	2	8	0.0	5.0	30n		75m	1.0	5	C	7	7	4	G02-137	
46#	MC1811L P%		DTL	3		2.6*	.45ΔC	2	7	0.0	5.0	25n		100m	1.0	5	C	7	7	4	G02-137	
47#	SP314AA		DTL	3		3.8*	.60Δ	7	16	0	6	20n		22m†	1.2	5	C	7	7	1	DL14k	
48#	SP317A		DTL	3		3.8*	.60Δ	4	16	0	6	20n		22m†	1.2	5	C	7	7	2	DL14k	
49#	SP370A		DTL	3		3.8*	.60Δ	3	16	0	6	20n		22m†	1.2	5	C	7	7	3	DL14k	
50#	SP380A		DTL	3		3.8*	.60Δ	2	16	0	6	20n		22m†	1.2	5	C	7	7	4	DL14k	
51#	306AL		DTL	3		6.5Δ	5.0*	3	10	0.0	13	600nΔ		640m%	3	7	7	4	4		G03-131g	
52#	307CL		DTL	3		6.5Δ	5.0*	3	3	0.0	13	600nΔ		448m%	3	8	8	4	4		G03-131g	
53#	FZH281		DTL	3		7.5*	4.5Δ	3	10	0.0	12	260n	340n†	120n†	288m	5.0	0	7	4		G03-280	
54#	FZH285B		DTL	3		30Δ	4.5Δ	3	10	0.0	12	260n	340n†	120n†	288m	5.0	2	8	4		G03-280	
55#	FZH301		DTL	3		30Δ	4.5Δ	2	3	0.0	15	1.0uΔ	600n†	600n†	272m	5.0	0	7	4		G03-309	
56#	FZH305		DTL	3		30Δ	4.5Δ	2	3	0.0	15	1.0uΔ	600n†	600n†	272m	5.0	2	8	4		G03-309	
57#	HAG20021		DTL	3,4S				5	5	0	8			800m	0.7	5	C	1	1		G03-210	
58#	HAG20029		DTL	3,4S				5	5	0	8			800m	0.7	5	C	1	1		G03-210	
59#	HBG20021		DTL	3,4S				5	5	0	8			800m	0.7	5	C	1	1		G03-210	
60#	HBG20029		DTL	3,4S				5	5	0	8			800m	0.7	5	C	1	1		G03-210	
61#	HAG20019		DTL	3,4S		2.0*	.45Δ	5	5	0	8			800m	0.7	5	C	1	1		G03-210	
62#	HBG20019		DTL	3,4S		2.0*	.45Δ	5	5	0	8			800m	0.7	5	C	1	1		G03-210	
63#	HAG20011		DTL	3,4S		2.2*	.45Δ	5	5	0	8			800m	0.7	5	C	1	1		G03-210	
64#	HBG20011		DTL	3,4S		2.2*	.45Δ	5	5	0	8			800m	0.7	5	C	1	1		G03-210	
65#	ZSS51A		DTL	3M		.20	4.0	5	8	0.0	5.0	9.0n		19m	1.0	5	C	1	1		CN2	
66#	ZSS51B		DTL	3M		.20	4.0	5	8	0.0	5.0	9.0n		19m	1.0	5	C	1	1		CN2	
67#	ZSS53A		DTL	3M		.20	4.0	2	8	0.0	5.0	9.0n		19m	1.0	5	C	2	2		G03-121	
68#	ZSS53B		DTL	3M		.20	4.0	2	8	0.0	5.0	9.0n										

5. GATES

IN ORDER OF:(1)TECHNOLOGY(2)TYPE(3)LOGIC*1
(4)LOGIC*(5)TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL				FAN IN		POWER SUPPLY SPAN		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS	
					3	MIN. '1' (V)	4	MAX. '0' (V)	IN	OUT MAX.	NEG. (V)	POS (V)		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE
1	N8417F		DTL	4			.35CΔ	4	9	0.0	5.0	150nΔ	75n	23m	1.4	0	7	2	G04-325	DL14ad	
2	N8417J		DTL	4			.35CΔ	4	9	0	5	150n	75n	23m	1.4	0	7	2	G04-325a	TO88	
3	S8415A		DTL	4			.35CΔ	5	9	0	5	150nΔ		23m	1.4	5	C	2	74-22N	TO116	
4	S8415F		DTL	4			.35CΔ	5	9	0.0	5.0	150nΔ		23m	1.4	5	C	2	74-22N	DL14ad	
5	S8415J		DTL	4			.35CΔ	5	9	0	5	150nΔ		23m	1.4	5	C	2	54-22W	TO88	
6	S8417A		DTL	4			.35CΔ	4	9	0	5	150n	75n	23m	1.4	5	C	2	G04-325	TO116	
7	S8417F		DTL	4			.35CΔ	4	9	0.0	5.0	150nΔ	75n	23m	1.4	5	C	2	G04-325	DL14ad	
8	S8417J		DTL	4			.35CΔ	4	9	0	5	150n	75n	23m	1.4	5	C	2	G04-325a	TO88	
9	MC1918F		DTL	4			.40CΔ	2	8	0.0	5.0	30n		40m		5	C	4	54S03W	TO86	
10	MC1918L		DTL	4			.40CΔ	2	8	0.0	5.0	30n		40m		5	C	4	74-03N	TO116	
11	MC1818L,P%		DTL	4			.45CΔ	2	8	0.0	5.0	30n		40m		0	7	4	74-03N	TO116	
12	930DM		DTL	4		1.7*	1.4Δ	5	10	0.0	5.0	80nΔ		17mt	1.0	5	C	2	G04-217	DL14av	
13	930FM		DTL	4		1.7*	1.4Δ	5	10	0.0	5.0	80nΔ		17mt	1.0	5	C	2	G04-217	FP28g	
14	932DM		DTL	4		1.7*	1.4Δ	5	10	0.0	5.0	80nΔ		17mt	1.0	5	C	2	G04-218	DL14av	
15	932FM		DTL	4		1.7*	1.4Δ	5	10	0.0	5.0	80nΔ		17mt	1.0	5	C	2	G04-218	FP28g	
16	944DM		DTL	4		1.7*	1.4Δ	5	10	0.0	5.0	50nΔ		17mt	1.0	5	C	2	G04-376a	DL14av	
17	944FM		DTL	4		1.7*	1.4Δ	5	10	0.0	5.0	50nΔ		17mt	1.0	5	C	2	G04-376a	FP28g	
18	946DM		DTL	4		1.7*	1.4Δ	2	10	0.0	5.0	80nΔ		34mt	1.0	5	C	4	74-00N	DL14av	
19	946FM		DTL	4		1.7*	1.4Δ	2	10	0.0	5.0	80nΔ		34mt	1.0	5	C	4	54S00W	FP28g	
20	962DM		DTL	4		1.7*	1.4Δ	3	10	0.0	5.0	.80nΔ		25mt	1.0	5	C	3	74-10N	DL14av	
21	962FM		DTL	4		1.7*	1.4Δ	3	10	0.0	5.0	.80nΔ		25mt	1.0	5	C	3	54S10W	FP28g	
22#	9930DM		DTL	4		1.7*	1.4Δ	5	10	0.0	5.0	80nΔ		17mt	1.0	5	C	2	G04-217	DL14av	
23#	9930FM		DTL	4		1.7*	1.4Δ	5	10	0.0	5.0	80nΔ		17mt	1.0	5	C	2	G04-217	FP28g	
24#	9932DM		DTL	4		1.7*	1.4Δ	5	10	0.0	5.0	80nΔ		17mt	1.0	5	C	2	G04-218	DL14av	
25#	9932FM		DTL	4		1.7*	1.4Δ	5	10	0.0	5.0	80nΔ		17mt	1.0	5	C	2	G04-218	FP28g	
26#	9944DM		DTL	4		1.7*	1.4Δ	5	10	0.0	5.0	50nΔ		17mt	1.0	5	C	2	G04-376a	DL14av	
27#	9944FM		DTL	4		1.7*	1.4Δ	5	10	0.0	5.0	50nΔ		17mt	1.0	5	C	2	G04-376a	FP28g	
28#	9946DM		DTL	4		1.7*	1.4Δ	2	10	0.0	5.0	80nΔ		34mt	1.0	5	C	4	74-00N	DL14av	
29#	9946FM		DTL	4		1.7*	1.4Δ	2	10	0.0	5.0	80nΔ		34mt	1.0	5	C	4	54S00W	FP28g	
30#	9962DM		DTL	4		1.7*	1.4Δ	3	10	0.0	5.0	80nΔ		25mt	1.0	5	C	3	74-10N	DL14av	
31#	9962FM		DTL	4		1.7*	1.4Δ	3	10	0.0	5.0	80nΔ		25mt	1.0	5	C	3	54S10W	FP28g	
32#	9930BC		DTL	4		1.8*	1.2Δ	5	10	0.0	5.0	100nΔ		17mt	1.0	0	7	2	G04-217	DL14y	
33#	9930DC		DTL	4		1.8*	1.2Δ	5	10	0.0	5.0	100nΔ		17mt	1.0	0	7	2	G04-217	DL14av	
34#	9930FC		DTL	4		1.8*	1.2Δ	5	10	0.0	5.0	100nΔ		17mt	1.0	0	7	2	G04-217	FP28g	
35#	9932BC		DTL	4		1.8*	1.2Δ	5	10	0.0	5.0	100nΔ		17mt	1.0	0	7	2	G04-218	DL14y	
36#	9932DC		DTL	4		1.8*	1.2Δ	5	10	0.0	5.0	100nΔ		17mt	1.0	0	7	2	G04-218	DL14av	
37#	9932FC		DTL	4		1.8*	1.2Δ	5	10	0.0	5.0	100nΔ		17mt	1.0	0	7	2	G04-218	FP28g	
38#	9944BC		DTL	4		1.8*	1.2Δ	5	10	0.0	5.0	70nΔ		17mt	1.0	0	7	2	G04-376a	DL14y	
39#	9944DC		DTL	4		1.8*	1.2Δ	5	10	0.0	5.0	70nΔ		17mt	1.0	0	7	2	G04-376a	DL14av	
40#	9944FC		DTL	4		1.8*	1.2Δ	5	10	0.0	5.0	70nΔ		17mt	1.0	0	7	2	G04-376a	FP28g	
41#	9946BC		DTL	4		1.8*	1.2Δ	2	10	0.0	5.0	100nΔ		34mt	1.0	0	7	4	74-00N	DL14y	
42#	9946DC		DTL	4		1.8*	1.2Δ	2	10	0.0	5.0	100nΔ		34mt	1.0	0	7	4	74-00N	DL14av	
43#	9946FC		DTL	4		1.8*	1.2Δ	2	10	0.0	5.0	100nΔ		34mt	1.0	0	7	4	54S00W	FP28g	
44#	9962BC		DTL	4		1.8*	1.2Δ	3	10	0.0	5.0	100nΔ		25mt	1.0	0	7	3	74-10N	DL14y	
45#	9962DC		DTL	4		1.8*	1.2Δ	3	10	0.0	5.0	100nΔ		25mt	1.0	0	7	3	74-10N	DL14av	
46#	9962FC		DTL	4		1.8*	1.2Δ	3	10	0.0	5.0	100nΔ		25mt	1.0	0	7	3	54S10W	FP28g	
47	JANM38510/03001BAB		DTL	4		1.9*	1.1Δ	5	8	0.0	5.5	112nΔ		46m		5	C	2	G04-27r	FP115	
48	JANM38510/03001BAC		DTL	4		1.9*	1.1Δ	5	8	0.0	5.5	112nΔ		46m		5	C	2	G04-27r	FP115	
49	JANM38510/03001BCB		DTL	4		1.9*	1.1Δ	5	8	0.0	5.5	112nΔ		46m		5	C	2	G04-27r	DL14bo	
50	JANM38510/03001CAB		DTL	4		1.9*	1.1Δ	5	8	0.0	5.5	112nΔ		46m		5	C	2	G04-27r	FP115	
51	JANM38510/03001CAC		DTL	4		1.9*	1.1Δ	5	8	0.0	5.5	112nΔ		46m		5	C	2	G04-27r	FP115	
52	JANM38510/03001CCB		DTL	4		1.9*	1.1Δ	5	8	0.0	5.5	112nΔ		46m		5	C	2	G04-27r	FP115	
53	JANM38510/03004BAB		DTL	4		1.9*	1.1Δ	5	8	0.0	5.5	112nΔ		46m		5	C	2	G04-27r	DL14bo	
54	JANM38510/03004BAC		DTL	4		1.9*	1.1Δ	2	8	0.0	5.5	112nΔ		92m		5	C	4	54S00W	FP115	
55	JANM38510/03004BCB		DTL	4		1.9*	1.1Δ	2	8	0.0	5.5	112nΔ		92m		5	C	4	54S00W	FP115	
56	JANM38510/03004CAB		DTL	4		1.9*	1.1Δ	2	8	0.0	5.5	112nΔ		92m		5	C	4	74-00N	DL14bo	
57	JANM38510/03004CAC		DTL	4		1.9*	1.1Δ	2	8	0.0	5.5	112nΔ		92m		5	C	4	54S00W	FP115	
58	JANM38510/03004CCB		DTL	4		1.9*	1.1Δ	2	8	0.0	5.5	112nΔ		92m		5	C	4	54S00W	FP115	
59	JANM38510/03005BAB		DTL	4		1.9*	1.1Δ	2	8	0.0	5.5	112nΔ		92m		5	C	4	74-00N	DL14bo	
60	JANM38510/03005BAC		DTL	4		1.9*	1.1Δ	3	8	0.0	5.5	112nΔ		69m		5	C	3	54S10W	FP115	
61	JANM38510/03005BCB		DTL	4		1.9*	1.1Δ	3	8	0.0	5.5	112nΔ		69m		5	C	3	54S10W	FP115	
62	JANM38510/03005CAB		DTL	4		1.9*	1.1Δ	3	8	0.0	5.5	112nΔ		69m		5	C	3	74-10N	DL14bo	
63	JANM38510/03005CAC		DTL	4		1.9*	1.1Δ	3	8	0.0	5.5	112nΔ		69m		5	C	3	54S10W	FP115	
64	JANM38510/03005CCB		DTL	4		1.9*	1.1Δ	3	8	0.0	5.5	112nΔ		69m		5	C	3	54S10W	FP115	
65	SN15849F.R		DTL	4		1.9*	1.1Δ	3	8	0.0	5.5	112nΔ		69m		5	C	3	74-10N	DL14bo	
66	SN15849J		DTL	4		1.9*	1.1Δ	2	7	0	8					0	7	4	74-00N	TO84	
67	SN15849N		DTL	4		1.9*	1.1Δ	2	7	0	8					0	7	4	G04-217	TO116	
68	SN15861F.R		DTL	4		1.9*	1.1Δ	5	7	0	8					0	7	2	G04-217	TO84	
69	SN15861J		DTL	4		1.9*	1.1Δ	5	7	0	8					0	7	2	G04-217	TO116	
70	SN15861N		DTL	4		1.9*	1.1Δ	5	7	0	8					0	7	2	G04-217	DL14m	
71	SN15863F.R		DTL	4		1.9*	1.1Δ	3	7	0.0	8.0					0	7	3	54S10W	TO84	
72	SN15863J		DTL	4		1.9*	1.1Δ	3	7	0	8					0	7	3	74-10N	TO116	
73	SN15863N		DTL	4		1.9*	1.1Δ	3	7	0	8					0	7	3	74-10N	DL14m	
74	SN15930N		DTL	4		1.9*	1.1Δ	5	8	0.0	5.0	80nΔ		10mt		5	C	2	G04-217	DL14n	
75	SN15932N		DTL	4		1.9*	1.1Δ	5	25	0.0	5.0	80nΔ		10mt		5	C	2	G04-218	DL14n	
76	SN15944N		DTL	4		1.9*	1.1Δ	5	27	0.0	5.0	50nΔ		10mt		5	C	2	G04-218a	DL14n	
77	SN15946N		DTL	4		1.9*	1.1Δ	2	8	0.0											

5. GATES

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC (4) LOGIC (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN		POWER SUPPLY		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS	
					3] MIN. '1'	4] MAX. '0'	IN	OUT MAX.	NEG. (V)	POS (V)		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE
					(V)	(V)													
1	MC949L		DTL	4	2.6*	.40Δ	2	7	0.0	5.0	25n			66m†			4		TO116
2	MC961L		DTL	4	2.6*	.40Δ	5	5	0.0	5.0	25n			33m†			2	G04-92	TO116
3	MC962L		DTL	4	2.6*	.40Δ	3	8	0.0	5.0	30n			33m†			4	G04-10N	TO116
4	MC963L		DTL	4	2.6*	.40Δ	3	7	0.0	5.0	25n			50m†			4	G04-10N	TO116
5	DM1800N		DTL	4	2.6*	.45CΔ	5	5	0.0	5.0	80nΔ			8.0m% 8.0m%			2	G04-27K	DL14bt
6	DM1801N		DTL	4	2.6*	.45CΔ	5	5	0.0	5.0	80nΔ			8.0m% 8.0m%			2	G04-27K	DL14bt
7	MC830L P%		DTL	4	2.6*	.45CΔ	5	8	0.0	5.0	30n			22m†			2	G04-92	TO116
8	MC832L P%		DTL	4	2.6*	.45CΔ	5	25	0.0	5.0	35n			85m†			2	G04-154a	TO116
9	MC844L P%		DTL	4	2.6*	.45Δ	5	27	0.0	5.0	30n			65m†			2	G04-154	TO116
10	MC846L P%		DTL	4	2.6*	.45Δ	2	8	0.0	5.0	30n			44m†			0	G04-00N	TO116
11	MC849L P%		DTL	4	2.6*	.45Δ	2	7	0.0	5.0	25n			66m†			0	G04-00N	TO116
12	MC861L P%		DTL	4	2.6*	.45CΔ	5	7	0.0	5.0	25n			33m†			0	G04-92	TO116
13	MC862L P%		DTL	4	2.6*	.45Δ	3	8	0.0	5.0	30n			33m†			3	G04-10N	TO116
14	MC863L P%		DTL	4	2.6*	.45Δ	3	7	0.0	5.0	25n			50m†			3	G04-10N	TO116
15	MC857L P%		DTL	4	3.0	.20	2	25	0.0	5.0	35n			170m†			0	G06-162	TO116
16	MC858L P%		DTL	4	3.0	.20	2	25	0.0	5.0	30n			130m†			4	G04-376	TO116
17	MC957L		DTL	4	3.0	.20	2	25	0.0	5.0	35n			170m†			4	G06-162	TO116
18	MC958L		DTL	4	3.0	.20	2	27	0.0	5.0	30n			130m†			4	G04-376	TO116
19	MC1800L P%		DTL	4	3.0	.20	5	8	0.0	5.0	30n			22m†	1.0		2	G04-27K	TO116
20	MC1802L P%		DTL	4	3.0	.20	9	8	0.0	5.0	30n			11m†	1.0		1	G04-27m	TO116
21	MC1803L P%		DTL	4	3.0	.20	9	7	0.0	5.0	25n			16m†	1.0		1	G04-27m	TO116
22	MC1804L P%		DTL	4	3.0	.20	10	8	0.0	5.0	30n			11m†	1.0		1	G04-27n	TO116
23	MC1805L P%		DTL	4	3.0	.20	10	7	0.0	5.0	25n			16m†	1.0		1	G04-27n	TO116
24	MC1900F		DTL	4	3.0	.20	5	8	0.0	5.0	30n			22m†	1.0		2	G04-27K	TO86
25	MC1900L		DTL	4	3.0	.20	5	8	0.0	5.0	30n			22m†	1.0		2	G04-27K	TO116
26	MC1901F		DTL	4	3.0	.20	5	7	0.0	5.0	25n			33m†	1.0		2	G04-27K	TO86
27	MC1901L		DTL	4	3.0	.20	5	7	0.0	5.0	25n			33m†	1.0		2	G04-27K	TO116
28	MC1902F		DTL	4	3.0	.20	9	8	0.0	5.0	30n			11m†	1.0		1	G04-27m	TO86
29	MC1902L		DTL	4	3.0	.20	10	8	0.0	5.0	30n			11m†	1.0		1	G04-27m	TO116
30	MC1903F		DTL	4	3.0	.20	10	7	0.0	5.0	25n			16m†	1.0		1	G04-27m	TO86
31	MC1903L		DTL	4	3.0	.20	10	7	0.0	5.0	25n			16m†	1.0		1	G04-27m	TO116
32	MC1904F		DTL	4	3.0	.20	10	8	0.0	5.0	30n			11m†	1.0		1	G04-27n	TO86
33	MC1904L		DTL	4	3.0	.20	10	7	0.0	5.0	30n			11m†	1.0		1	G04-27n	TO116
34	MC1905F		DTL	4	3.0	.20	10	7	0.0	5.0	25n			16m†	1.0		1	G04-27n	TO86
35	MC1905L		DTL	4	3.0	.20	10	7	0.0	5.0	25n			16m†	1.0		1	G04-27n	TO116
36	N8416A		DTL	4	3.4*	.35CΔ	5	9	0	5	95n			25m	1.4		2	G04-258a	TO116
37	N8416F		DTL	4	3.4*	.35CΔ	5	9	0.0	5.0	95n		75n	25m	1.4		2	G04-258a	DL14ad
38	N8416J		DTL	4	3.4*	.35CΔ	5	9	0	5	95n		75n	25m	1.4		2	G04-258	TO86
39	S8416A		DTL	4	3.4*	.35CΔ	5	9	0	5	95n		75n	25m	1.4		2	G04-258a	TO116
40	S8416F		DTL	4	3.4*	.35CΔ	5	9	0.0	5.0	95n		75n	25m	1.4		2	G04-258a	DL14ad
41	S8416J		DTL	4	3.4*	.35CΔ	5	9	0	5	95n		75n	25m	1.4		2	G04-258	TO86
42	SP337A		DTL	4	3.5*	.40C	5	3	0	5	45n			20m†	1.2		3	G04-400a	DL14e
43	SP377A		DTL	4	3.5*	.40C	5	12	0.0	5.0	45n			135m†	1.2		3	G04-400b	DL14e
44	SP387A		DTL	4	3.5*	.40C	5	12	0.0	5.0	45n			180m†	1.2		4	G04-400c	DL14e
45	SP356A		DTL	4	3.5*	.40CΔ	5	18	0.0	5.0							2	G04-400c	TO116
46	321AJ		DTL	4	6.5Δ	5.0*	3	3	0.0	15	300nΔ			300m†	3.2		4	G04-237	DL16bq
47	321AL		DTL	4	6.5Δ	5.0*	3	5	0.0	15	300nΔ			300m†	3.2		4	G04-237	DL16ad
48	321CL		DTL	4	6.5Δ	5.0*	3	6	0.0	12	300nΔ			180m†	3.5		4	G04-237	DL16ad
49	322AJ		DTL	4	6.5Δ	5.0*	3	5	0.0	15	550nΔ			165m†	3.2		2	G04-236	DL16bq
50	322AL		DTL	4	6.5Δ	5.0*	3	5	0.0	15	550nΔ			165m†	3.2		2	G04-236	DL16ad
51	322CL		DTL	4	6.5Δ	5.0*	3	5	0.0	12	550nΔ			96m†	3.5		2	G04-236	DL16ad
52	323AJ		DTL	4	6.5Δ	5.0*	3	5	0.0	15	400nΔ			120m†	3.2		4	G04-316	DL16bq
53	323AL		DTL	4	6.5Δ	5.0*	3	5	0.0	15	400nΔ			120m†	3.2		4	G04-316	DL16ad
54	323CJ		DTL	4	6.5Δ	5.0*	3	5	0.0	12	100n			320m	5.0		4	G04-316	DL16bq
55	323CL		DTL	4	6.5Δ	5.0*	3	5	0.0	12	400nΔ			66m†	3.5		4	G04-316	DL16ad
56	324AL		DTL	4	6.5Δ	5.0*	3	5	0.0	15	600nΔ			600m†	3.2		4	G04-381	DL16ad
57	324CL		DTL	4	6.5Δ	5.0*	3	5	0.0	12	600nΔ			336m†	3.5		4	G04-381	DL16ad
58	325AJ		DTL	4	6.5Δ	5.0*	3	5	0.0	15	300nΔ			200m†	3.2		4	G04-382	DL16bq
59	325AL		DTL	4	6.5Δ	5.0*	3	5	0.0	15	300nΔ			200m†	3.2		4	G04-382	DL16ad
60	325CL		DTL	4	6.5Δ	5.0*	3	5	0.0	12	300nΔ			180m†	3.5		4	G04-382	DL16ad
61	326AJ		DTL	4	6.5Δ	5.0*	3	5	0.0	15	600nΔ			600m†	3.2		4	G04-383	DL16bq
62	326AL		DTL	4	6.5Δ	5.0*	3	5	0.0	15	600nΔ			600m†	3.2		4	G04-383	DL16ad
63	326CL		DTL	4	6.5Δ	5.0*	3	5	0.0	12	600nΔ			336m†	3.5		4	G04-383	DL16ad
64#	FZH101		DTL	4	7.5*	4.5Δ	2	10	0.0	12	310nΔ	340n†	120n†	124m	5.0		4	G04-428	DL16k
65#	FZH101A		DTL	4	7.5*	4.5Δ	2	10	0.0	12	310nΔ	340n†	120n†	124m	5.0		4	G04-428	DL16k
66#	FZH111		DTL	4	7.5*	4.5Δ	3	10	0.0	12	310nΔ	340n†	170n	124m	5.0		0	G04-428a	DL16k
67#	FZH111A		DTL	4	7.5*	4.5Δ	3	10	0.0	12	310nΔ	340n†	170n	124m	5.0		0	G04-428a	DL16k
68#	FZH121		DTL	4	7.5*	4.5Δ	6	10	0.0	12	310nΔ	340n†	120n†	62m	5.0		2	G04-429	DL16k
69#	FZH125		DTL	4	7.5*	4.5Δ	6	10	0.0	12	310nΔ	340n†	120n†	62m	5.0		2	G04-429	DL16k
70#	FZH131		DTL	4	7.5*	4.5Δ	6	10	0.0	12	310nΔ	340n†	120n†	62m	5.0		2	G04-429a	DL16k
71#	FZH135		DTL	4	7.5*	4.5Δ	6	10	0.0	12	310nΔ	340n†	120n†	62m	5.0		2	G04-429a	DL16k
72#	FZH141		DTL	4	7.5*	4.5Δ	6	30	0.0	12	310nΔ	340n†	120n†	62m	5.0		0	G04-429a	DL16k
73#	FZH145		DTL	4	7.5*	4.5Δ	6	30	0.0	12	310nΔ	340n†	120n†	62m	5.0		2	G04-429a	DL16k
74#	FZH191		DTL	4	7.5*	4.5Δ	4	10	0.0	12	175n	340n†	120n†	108m	5.0		3	G04-446	DL16k
75#	FZH195		DTL	4	7.5*	4.5Δ	4	10	0.0	12	175n	340n†	120n†	108m	5.0		3	G04-446	DL16k
76#	FZH201		DTL	4	7.5*	4.5Δ	2	10	0.0	12	175n	340n†	120n†	216m	5.0		6	G04-447	DL16k
77#	FZH205		DTL	4	7.5*	4.5Δ	2	10	0.0	12	175n	340n†	120n†	216m	5.0		6	G04-447	DL16k
78#	H122D1		DTL	4	8.0*	6.0Δ	2	25	0.0	20	400nΔ			600m	5.0		0	G04-00N	DL14av
79#	H122D2		DTL	4	8.0*	6.0Δ	2	25	0.0	16	400nΔ			384m	5.0		5	G04-00N	DL14by
80#	H122D6		DTL	4	8.0*	6.0Δ	2	25	0.0	16	400nΔ								

5. GATES

IN ORDER OF:(1)TECHNOLOGY(2)TYPE(3)LOGIC*(4)LOGIC*(5)TYPE NO.

LINE NO.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN IN		POWER SUPPLY SPAN		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS		
					3 MIN. (V)	4 MAX. (V)	IN	OUT MAX.	NEG. (V)	POS. (V)		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE	
1#	E303D2		DTL	4M	1.7*	.90Δ	3	10	0.0	5.0	100nΔ			3.0m†	450m	5	C	3	54S10W	FP28c
2#	E303D7		DTL	4M	1.7*	.90Δ	3	10	0.0	5.0	100nΔ			3.0m†	450m	5	C	3	54S10W	FP28c
3#	E303F2		DTL	4M	1.7*	.90Δ	3	10	0.0	5.0	100nΔ			3.0m†	450m	5	C	3	74-10N	DL14c
4#	E303F7		DTL	4M	1.7*	.90Δ	3	10	0.0	5.0	100nΔ			3.0m†	450m	5	C	3	74-10N	DL14c
5#	E304D2		DTL	4M	1.7*	.90Δ	5	10	0.0	5.0	100nΔ			2.0m†	450m	5	C	2	G04-417b	FP28c
6#	E304D7		DTL	4M	1.7*	.90Δ	5	10	0.0	5.0	100nΔ			2.0m†	450m	5	C	2	G04-417b	FP28c
7#	E304F2		DTL	4M	1.7*	.90Δ	5	10	0.0	5.0	100nΔ			2.0m†	450m	5	C	2	G04-417b	DL14c
8#	E304F7		DTL	4M	1.7*	.90Δ	5	10	0.0	5.0	100nΔ			2.0m†	450m	5	C	2	G04-417b	DL14c
9#	E305D2		DTL	4M	1.7*	.90Δ	5	10	0.0	5.0	150nΔ			2.0m†	450m	5	C	2	G04-418	FP28c
10#	E305D7		DTL	4M	1.7*	.90Δ	5	10	0.0	5.0	150nΔ			2.0m†	450m	5	C	2	G04-418	FP28c
11#	E305F2		DTL	4M	1.7*	.90Δ	5	10	0.0	5.0	150nΔ			2.0m†	450m	5	C	2	G04-418	DL14c
12#	E305F7		DTL	4M	1.7*	.90Δ	5	10	0.0	5.0	150nΔ			2.0m†	450m	5	C	2	G04-418	DL14c
13#	E306D2		DTL	4M	1.7*	.90Δ	5	10	0.0	5.0	400nΔ			2.0m†	450m	5	C	2	G04-395	FP28c
14#	E306D7		DTL	4M	1.7*	.90Δ	5	10	0.0	5.0	400nΔ			2.0m†	450m	5	C	2	G04-395	FP28c
15#	E306F2		DTL	4M	1.7*	.90Δ	5	10	0.0	5.0	400nΔ			2.0m†	450m	5	C	2	G04-395	DL14c
16#	E306F7		DTL	4M	1.7*	.90Δ	5	10	0.0	5.0	400nΔ			2.0m†	450m	5	C	2	G04-395	DL14c
17#	9934BC		DTL	4M	1.8*	1.2Δ	5	10	0.0	5.0	100nΔ			17m†	1.0	0	7	2	G04-27K	DL14y
18#	9934DC		DTL	4M	1.8*	1.2Δ	5	10	0.0	5.0	100nΔ			17m†	1.0	0	7	2	G04-27K	DL14av
19#	9934FC		DTL	4M	1.8*	1.2Δ	5	10	0.0	5.0	100nΔ			17m†	1.0	0	7	2	G04-27K	FP28g
20	949DM		DTL	4M	1.9*	1.1Δ	2	2	0.0	5.0	50nΔ			34m†	1.0	5	C	4	74-00N	DL14ad
21	949FM		DTL	4M	1.9*	1.1Δ	2	2	0.0	5.0	50nΔ			34m†	1.0	5	C	4	54S00w	FP28c
22	961DM		DTL	4M	1.9*	1.1Δ	5	5	0.0	5.0	50nΔ			17m†	1.0	5	C	2	G04-92	DL14ad
23	961FM		DTL	4M	1.9*	1.1Δ	5	5	0.0	5.0	50nΔ			17m†	1.0	5	C	2	G04-92	FP28c
24	963DM		DTL	4M	1.9*	1.1Δ	3	3	0.0	5.0	50nΔ			25m†	1.0	5	C	3	74-10N	DL14ad
25	963FM		DTL	4M	1.9*	1.1Δ	3	3	0.0	5.0	50nΔ			25m†	1.0	5	C	3		FP28c
26#	FCH231		DTL	4M	2.0*	.80Δ	5	10	0	5	93n	18n	8.0n	11m	1.2	0	7	2	G04-70b	TO116
27#	930HM		DTL	4M	2.6*	.40CΔ	5	27	0.0	8.0	36n			17m	1.0	5	C	2	G04-1e	FP28
28	932HM		DTL	4M	2.6*	.40CΔ	5	8	0.0	8.0	36nΔ			17m	1.0	5	C	2	G04-218	TO100
29	944HM		DTL	4M	2.6*	.40CΔ	5	27	0.0	8.0	36n			17m	1.0	5	C	2	G04-218a	TO100
30	949DC		DTL	4M	2.6*	.40CΔ	2	7	0.0	5.0	36n			36m	1.0	0	7	4	74-00N	TO116
31	961DC		DTL	4M	2.6*	.40CΔ	5	7	0.0	5.0	36n			17m	1.0	0	7	2	G04-92	TO116
32	963DC		DTL	4M	2.6*	.40CΔ	3	7	0.0	5.0	36n			25m	1.0	0	7	3	74-10N	TO116
33	SN15930		DTL	4M	2.6*	.40CΔ	5	8	0.0	8.0	80nΔ			10m	1.0	5	C	2	G04-217	TO84
34	SN15944		DTL	4M	2.6*	.40CΔ	5	27	0.0	8.0	50nΔ			10m	1.0	5	C	2	G04-218a	TO84
35	SN15946		DTL	4M	2.6*	.40CΔ	2	8	0.0	8.0	80nΔ			20m	1.0	5	C	4	54S00W	TO84
36	SFC930E		DTL	4M	2.6*	.45CΔ	5	8	0.0	5.0	80nΔ			40m	1.0	0	7	2	G04-1e	DL14m
37	SFC932E		DTL	4M	2.6*	.45CΔ	5	25	0.0	5.0	80nΔ			150m	5.0	0	7	2	G04-218	DL14m
38	SFC944E		DTL	4M	2.6*	.45CΔ	5	5	0.0	5.0	50nΔ			100m	5.0	0	7	2	G04-218a	DL14m
39	SFC946E		DTL	4M	2.6*	.45CΔ	2	8	0.0	5.0	80nΔ			80m	5.0	0	7	4	74-00N	DL14m
40	SFC962E		DTL	4M	2.6*	.45CΔ	3	8	0.0	5.0	80nΔ			60m	5.0	0	7	3	74-10N	DL14m
41	SN15830		DTL	4M	2.6*	.45CΔ	4	8	0	8	80nΔ			10m†	1.0	0	7	2	G04-217	TO84
42	SN15830N		DTL	4M	2.6	.45	4	8	0	8	80nΔ			10m†	1.0	0	7	2	G04-217	DL14m
43	SN15832		DTL	4M	2.6*	.45CΔ	5	25	0	8	80nΔ			10m†	1.0	0	7	2	G04-218	TO84
44	SN15846		DTL	4M	2.6*	.45CΔ	2	8	0	8	80nΔ			20m†	1.0	0	7	4	54S00W	TO84
45	SN15846N		DTL	4M	2.6*	.45CΔ	2	8	0	8	80nΔ			20m†	1.0	0	7	4	74-00N	DL14a
46	SN15862		DTL	4M	2.6*	.45CΔ	3	8	0	8	80nΔ			15m†	1.0	0	7	3	74-10N	TO84
47	SN15862N		DTL	4M	2.6*	.45CΔ	3	8	0	8	80nΔ			15m†	1.0	0	7	3	74-10N	DL14a
48	SN15932		DTL	4M	2.6*	.45CΔ	5	25	0	8	80nΔ			10m	1.0	5	C	1	G04-218	TO84
49	SN15844		DTL	4M	6.0*	.45CΔ	5	27	0	8	50nΔ			10m†	1.0	0	7	2	G04-218a	TO84
50	SN15844N		DTL	4M	6.0*	.45CΔ	5	27	0	8	50nΔ			10m†	1.0	0	7	2	G04-218a	DL14a
51#	H102D1		DTL	4M	8.0*	6.0Δ	2	25	0.0	20	250nΔ			600m	5.0	0	7	4	G04-432	DL14av
52#	H102D2		DTL	4M	8.0*	6.0Δ	2	25	0.0	16	250nΔ			384m	5.0	5	C	4	G04-432	DL14by
53#	H102D6		DTL	4M	8.0*	6.0Δ	2	25	0.0	16	250nΔ			384m	5.0	4	8	4	G04-432	DL14bz
54#	H103D1		DTL	4M	8.0*	6.0Δ	3	25	0.0	20	250nΔ			450m	5.0	0	7	3	G04-432a	DL14av
55#	H103D2		DTL	4M	8.0*	6.0Δ	3	25	0.0	16	250nΔ			288m	5.0	5	C	3	G04-432a	DL14by
56#	H103D6		DTL	4M	8.0*	6.0Δ	3	25	0.0	16	250nΔ			288m	5.0	4	8	3	G04-432a	DL14bz
57#	H104D1		DTL	4M	8.0*	6.0Δ	5	25	0.0	20	250nΔ			300m	5.0	0	7	2	G04-432b	DL14av
58#	H104D2		DTL	4M	8.0*	6.0Δ	5	25	0.0	16	250nΔ			192m	5.0	5	C	2	G04-432b	DL14by
59#	H104D6		DTL	4M	8.0*	6.0Δ	5	25	0.0	16	250nΔ			192m	5.0	4	8	2	G04-432b	DL14bz
60#	H202B1		DTL	4M	8.0*	6.0Δ	2	25	0.0	16	250nΔ			500m	5.0	0	7	4	G04-432	TO116
61#	H203B1		DTL	4M	8.0*	6.0Δ	3	25	0.0	16	250nΔ			500m	5.0	0	7	3	G04-432a	TO116
62#	H204B1		DTL	4M	8.0*	6.0Δ	5	25	0.0	16	250nΔ			500m	5.0	0	7	2	G04-432b	TO116
63#	MC1912F		DTL	5	2.6*	.40CΔ	2	8	0.0	5.0	40n			130m	5.0	5	C	4	54-86W	TO86
64	MC1912L		DTL	5	2.6*	.40CΔ	2	8	0.0	5.0	40n			130m	5.0	5	C	4	74-86N	TO116
65	MC1812L,P%		DTL	5	2.6*	.45CΔ	2	8	0.0	5.0	40n			130m	5.0	0	7	4	G02-138	TO116
66#	FZH271		DTL	5	7.5*	4.5Δ	3	10	0.0	12	260n	340n†	120n†	288m	5.0	0	7	4	G05-116	DL16k
67#	FZH275		DTL	5	7.5*	4.5Δ	3	10	0.0	12	260n	340n†	120n†	288m	5.0	2	8	4	G05-116	DL16k
68#	H167D1		DTL	5	8.0*	6.0Δ	2	25	0.0	20	400nΔ			150m†	5.0	0	7	4	G05-116	DL14by
69	MC683L,P%		DTL	5	12.5*	1.5ΔC	2	10	0.0	15	300nΔ			380m†	TO116	3	7	4	G05-106	TO116
70	933DM		DTL	6			4	10	0.0	5.0				17m†	1.0	5	C	2		DL14av
71	933FM		DTL	6			4	10	0.0	5.0				17m†	1.0	5	C	2		FP28g
72#	9933BC		DTL	6			4	10	0.0	5.0				17m†	1.0	0	7	2		DL14y
73#	9933DC		DTL	6			4	10	0.0	5.0				17m†	1.0	0	7	2		DL14av
74#	9933DM		DTL	6			4	10	0.0	5.0				17m†	1.0	5	C	2		DL14av
75#	9933FC		DTL	6			4	10	0.0	5.0				17m†	1.0	0	7	2		FP28g
76#	9933FM		DTL	6			4	10	0.0	5.0				17m†	1.0	5	C	2		FP28g
77#	FCY101																			

5. GATES

IN ORDER OF:(1)TECHNOLOGY(2)TYPE(3)LOGIC(1)
(4)LOGIC(5)TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN IN	FAN OUT MAX.	POWER SUPPLY NEG. (V)	POWER SUPPLY POS (V)	PROPAGA DELAY (S)	RISE TIME (S)	FALL TIME (S)	MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS		
					3 MIN. (V)	4 MAX. (V)												LOGIC OR BLOCK	OUTLINE	
1#	GXB10108D		ECL	1,4	-0.81	-1.4	8	5.2	0.0	2.3n	4.5n	4.5n			3	8	2	G01-265	DL16gb	
2#	GXB10108P		ECL	1,4	-0.81	-1.4	8	5.2	0.0	2.3n	4.5n	4.5n			3	8	2	G01-265	DL16ga	
3#	HD10101		ECL	17	-0.81	-1.8C		5.2	0.0	2.0n			200m		3	8	4	G17-01	DL16p	
4	MC10H209L(A)		ECL	17	-0.81	-1.9	9	5.2	0.0	1.0n	1.5n	1.5n	125m		0	7	2	G17-07	DL16ao	
5	MC10H209P(A)		ECL	17	-0.81	-1.9	9	5.2	0.0	1.0n	1.5n	1.5n	125m		0	7	2	G17-07	DL16dp	
6#	HD100101		ECL	17	-1.2*	-1.5Δ		5.7	0.0	950u			40m†	145m	0	8	3	G17-04	DL24aw	
7#	HD100101F		ECL	17	-1.2*	-1.5Δ		5.7	0.0	950u			40m†	145m	0	8	3	G17-04	FP146	
8#	HD100102		ECL	17	-1.2*	-1.5Δ		5.7	0.0	950u			40m†	145m	0	8	5	G17-05	DL24aw	
9#	HD100102F		ECL	17	-1.2*	-1.5Δ		5.7	0.0	950u			40m†	145m	0	8	5	G17-05	FP146	
10#	HXA100101D		ECL	17	-1.8	-0.88	15	4.5	0	0.8n	1.1n	1.1n	120m		0	8	3	G17-04	DLZ	
11#	HXA100101F		ECL	17	-1.8	-0.88	15	6	0	0.8n	1.1n	1.1n	120m		0	8	3	G17-04	FPZ	
12#	HXA100102D		ECL	17	-1.8	-0.88	15	10	0	0.8n	1.1n	1.1n	248m		0	8	5	G17-05	DLZ	
13#	HXA100102F		ECL	17	-1.8	-0.88	15	10	0	0.8n	1.1n	1.1n	248m		0	8	5	G17-05	FPZ	
14#	HD10110		ECL	2	-0.81	-1.8C		5.2	0.0	2.4n			200m		3	8	2		DL16p	
15#	HD10210		ECL	2	-0.81	-1.8C		5.2	0.0	1.5n			200m		3	8	2		DL16p	
16	MC10H103L(A)		ECL	2	-0.81	-1.9	8	5.2	0.0	1.5n	2.0n	2.0n			0	7	4	G02-199	DL16ao	
17	MC10H103P(A)		ECL	2	-0.81	-1.9	8	5.2	0.0	1.5n	2.0n	2.0n			0	7	4	G02-199	DL16dp	
18#	HXA100112D		ECL	2	-1.8	-0.88	8	16	0	1.3n	1.4n	1.4n	310m		0	8	4	G02-230	DLZ	
19#	HXA100112F		ECL	2	-1.8	-0.88	8	16	0	1.3n	1.4n	1.4n	310m		0	8	4	G02-230	FPZ	
20#	HXA100117D		ECL	2	-1.8	-0.88	15	4	0	1.4n	1.1n	1.1n	245m		0	8	3	G02-216	DLZ	
21#	HXA100117F		ECL	2	-1.8	-0.88	15	4	0	1.4n	1.1n	1.1n	245m		0	8	3	G02-216	FPZ	
22#	HXA100118D		ECL	2	-1.8	-0.88	19	2	0	1.1n	1.2n	1.2n	200m		0	8	1	G02-217	DLZ	
23#	HXA100118F		ECL	2	-1.8	-0.88	19	2	0	1.1n	1.2n	1.2n	200m		0	8	1	G02-217	FPZ	
24	MC10H101L		ECL	2,3	1.13*	1.48Δ	5	5.2	0.0	1.5nΔ	2.0n	2.0n	25m	150m	0	7	4	G02-178	DL16Z	
25	MC10H101P		ECL	2,3	1.13*	1.48Δ	5	5.2	0.0	1.5nΔ	2.0n	2.0n	25m	150m	0	7	4	G02-178	DL16Z	
26#	GXB10118D		ECL	2,1	-0.70	-1.9	6	5.2	0	2.3n	2.0n†	2.0n†			3	8	2	G02-167	DL16dz	
27#	GXB10118P		ECL	2,1	-0.70	-1.9	6	5.2	0	2.3n	2.0n†	2.0n†			3	8	2	G02-167	DL16dy	
28#	GXB10119D		ECL	2,1	-0.70	-1.9	12	5.2	0	2.3n	2.0n†	2.0n†			3	8	1	G02-168	DL16dz	
29#	GXB10119P		ECL	2,1	-0.70	-1.9	12	5.2	0	2.3n	2.0n†	2.0n†			3	8	1	G02-168	DL16dy	
30	F100117DC		ECL	2,1G	-1.1*	-1.4Δ	2	4.5	0.0	2.3nΔ			355m%	145m*	0	7	3	G02-216	DL24an	
31	F100117FC		ECL	2,1G	-1.1*	-1.4Δ	2	4.5	0.0	2.3nΔ			355m%	145m*	0	7	3	G02-216	FP126	
32#	GXB10117D		ECL	2,1S	-0.70	-1.9	5	5.2	0	2.4n	2.0n†	2.0n†			3	8	2	G02-166	DL16dz	
33#	GXB10117P		ECL	2,1S	-0.70	-1.9	5	5.2	0	2.4n	2.0n†	2.0n†			3	8	2	G02-166	DL16dy	
34#	GXB10121D		ECL	2,1S	-0.70	-1.9	3	5.2	0	2.3n	2.0n†	2.0n†			3	8	1	G02-211	DL16dz	
35#	GXB10121P		ECL	2,1S	-0.70	-1.9	3	5.2	0	2.3n	2.0n†	2.0n†			3	8	1	G02-211	DL16dy	
36#	SP16F60		ECL	2,3	.96*	1.62ΔC	4	70	5.2	0.0	550u	0.6n	0.6n	120m†	135m	3	8	2	G02-161	DL16dm
37#	SP1660		ECL	2,3	.96*	1.62ΔC	4	70	5.2	0.0	1.1n	2.1n	2.1n	120m†	135m	3	8	2	G02-161	DL16dm
38#	GXB10101D		ECL	2,3	-0.70	-1.9	8	5.2	0	2.0n	2.0n†	2.0n†			3	8	4	G02-162	DL16dz	
39#	GXB10101P		ECL	2,3	-0.70	-1.9	8	5.2	0	2.0n	2.0n†	2.0n†			3	8	4	G02-162	DL16dy	
40#	GXB10105D		ECL	2,3	-0.70	-1.9	3	5.2	0	2.0n	2.0n†	2.0n†			3	8	3	G02-163	DL16dz	
41#	GXB10105P		ECL	2,3	-0.70	-1.9	3	5.2	0	2.0n	2.0n†	2.0n†			3	8	3	G02-163	DL16dy	
42#	GXB10109D		ECL	2,3	-0.70	-1.9	4	5.2	0	2.0n	2.0n†	2.0n†			3	8	2	G02-164	DL16dz	
43#	GXB10109P		ECL	2,3	-0.70	-1.9	4	5.2	0	2.0n	2.0n†	2.0n†			3	8	2	G02-164	DL16dy	
44#	GXB10103D		ECL	2,3	-0.81	-1.4	8	5.2	0.0	2.0n	3.3n	3.3n			3	8	4	G02-197	DL16gb	
45#	GXB10103P		ECL	2,3	-0.81	-1.4	8	5.2	0.0	2.0n	3.3n	3.3n			3	8	4	G02-197	DL16ga	
46#	GXB10112D		ECL	2,3	-0.81	-1.4	6	5.2	0.0	2.4n	3.5n	3.5n			3	8	2	G02-196	DL16gb	
47#	GXB10112P		ECL	2,3	-0.81	-1.4	6	5.2	0.0	2.4n	3.5n	3.5n			3	8	2	G02-196	DL16ga	
48#	100101F		ECL	2,3	1.02*	1.62ΔC	5	5.7	0.0	.95nΔ	1.1n	1.1n	120m†	145m	0	8	3	G17-04	FP149	
49#	100101Y		ECL	2,3	1.02*	1.62ΔC	5	5.7	0.0	1.1nΔ	1.3n	1.3n	120m†	145m	0	8	3	G17-4	DL24bb	
50#	100102F		ECL	2,3	1.02*	1.62ΔC	2	5.7	0.0	1.9nΔ	1.1n	1.1n	248m†	145m	0	8	5	G02-215	FP149	
51#	100102Y		ECL	2,3	1.02*	1.62ΔC	2	5.7	0.0	2.1nΔ	1.3n	1.3n	248m†	145m	0	8	5	G02-215	DL24bb	
52#	100112F		ECL	2,3	1.02*	1.62ΔC	2	5.7	0.0	1.2nΔ	1.4n	1.4n	310m†	145m	0	8	4	G02-230	FP149	
53	MC10H105L		ECL	2,3	1.13*	1.48Δ	3	5.2	0.0	1.5nΔ	2.0n	2.0n	25m	150m	0	7	3	G02-179	DL16Z	
54	MC10H105P		ECL	2,3	1.13*	1.48Δ	3	5.2	0.0	1.5nΔ	2.0n	2.0n	25m	150m	0	7	3	G02-179	DL16Z	
55	MC10H109L		ECL	2,3	1.13*	1.48Δ	5	5.2	0.0	1.5nΔ	2.0n	2.0n	35m	150m	0	7	2	G02-194	DL16Z	
56	MC10H109P		ECL	2,3	1.13*	1.48Δ	5	5.2	0.0	1.5nΔ	2.0n	2.0n	35m	150m	0	7	2	G02-194	DL16Z	
57	F10011DC		ECL	2,3	-0.9Δ	-1.8*	5	4.5	0.0	1.3n			171m%	145m*	0	8	3	G02-214	DL24an	
58	F10011FC		ECL	2,3	-0.9Δ	-1.8*	5	4.5	0.0	1.1n			171m%	145m*	0	8	3	G02-214	FP126	
59	F10012DC		ECL	2,3	-0.9Δ	-1.8*	3	4.5	0.0	1.3n			360m%	145m*	0	8	5	G02-215	DL24an	
60	F10012FC		ECL	2,3	-0.9Δ	-1.8*	3	4.5	0.0	1.1n			360m%	145m*	0	8	5	G02-215	FP126	
61#	HD100117		ECL	2,1218	-1.2*	-1.5Δ		5.7	0.0	1.4n			40m†	145m	0	8	5	G02-216	DL24aw	
62#	HD100117F		ECL	2,1218	-1.2*	-1.5Δ		5.7	0.0	1.4n			40m†	145m	0	8	5	G02-216	FP146	
63#	HD100118		ECL	2,1218	-1.2*	-1.5Δ		5.7	0.0	2.2n			40m†	145m	0	8	5	G02-217	DL24aw	
64#	HD100118F		ECL	2,1218	-1.2*	-1.5Δ		5.7	0.0	2.2n			40m†	145m	0	8	5	G02-217	FP146	
65#	GXB10100D		ECL	3	-0.70	-1.9	3	5.2	0	2.0n	2.0n†	2.0n†			3	8	4	G03-293	DL16dz	
66#	GXB10100P		ECL	3	-0.70	-1.9	3	5.2	0	2.0n	2.0n†	2.0n†			3	8	4	G03-293	DL16dy	
67#	GXB10102D		ECL	3	-0.70	-1.9	2	5.2	0	2.0n	2.0n†	2.0n†			3	8	4		DL16dz	
68#	GXB10102P		ECL	3	-0.70	-1.9	2	5.2	0	2.0n	2.0n†	2.0n†			3	8	4		DL16dy	
69#	GXB10106D		ECL	3	-0.70	-1.9	4	5.2	0	2.0n	2.0n†	2.0n†			3	8	3	G03-265	DL16dz	
70#	GXB10106P		ECL	3	-0.70	-1.9	4	5.2	0	2.0n	2.0n†	2.0n†			3	8	3	G03-265	DL16dy	
71	MC10H100L(A)		ECL	3	-0.81	-1.9	9	5.2	0.0	1.5n	1.9n	1.8n			0	7	4	G03-293	DL16ao	
72	MC10H100P(A)		ECL	3	-0.81	-1.9	9	5.2	0.0	1.5n	1.9n	1.8n			0	7	4	G03-293	DL16dp	
73	MC10H106L(A)		ECL	3	-0.81	-1.9	10	5.2	0.0	1.5n	2.0n	2.0n			0	7	3	G03-328	DL16ao	
74	MC10H106P(A)		ECL	3	-0.81	-1.9	10	5.2	0.0	1.5n	2.0n	2.0n			0	7	3	G03-328	DL16dp	
75	9504DC		ECL	3	-0.90	-1.7	9	10	5.2	0.0	2.5n	4.5n	4.5n	350m	300m	0	7	1	G02-139b	DL16y
76	MC10H102L		ECL	3	1.13*	1.48Δ	2	5.2	0.0	1.5nΔ	2.0n	2.0n	25m	150m	0	7	4	G03-272	DL16Z	
77#	GXB10123D																			

5. GATES

IN ORDER OF:(1)TECHNOLOGY(2)TYPE(3)LOGIC*1
(4)LOGIC(5)TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN IN		POWER SUPPLY SPAN		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS	
					3	4	IN	OUT	NEG.	POS		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE
					MIN. (V)	MAX. (V)		MAX.	(V)	(V)									
1	MC10197L		ECT	1	-96*	-1.6ΔC	2	5.2	0.0	4.0n	4.5n	4.5n	255m	125m*	3 8	6	G01-256	DL16am	
2	MC10197P		ECT	1	-96*	-1.6ΔC	2	5.2	0.0	4.0n	4.5n	4.5n	255m	125m*	3 8	6	G01-256	DL16bo	
3	DM10118J		ECT	1,2	-96*	-1.6ΔC	11	5.2	0.0	3.4nΔ	4.0n	4.0n	100m†		3 8	1	G02-167	DL16ai	
4	DM10119J		ECT	1,2	-96*	-1.6ΔC	12	5.2	0.0	3.4nΔ	4.0n	4.0n	100m†		3 8	1	G02-168	DL16ai	
5	DM10117J		ECT	1,2G	-96*	-1.6ΔC	9	5.2	0.0	2.3n	2.2n†	2.2n†	100m†		3 8	1	G02-166	DL16ai	
6	DM10121J		ECT	1,2G	-96*	-1.6ΔC	11	5.2	0.0	2.3n	2.5n†	2.5n†	100m†		3 8	1	G02-211	DL16ai	
7	10117F		ECT	1,2S	-85	-1.7	5	5.2	0.0	2.3n	2.5n†	2.5n†	100m†	200m	3 8	2	G01-229	DL16t	
8	10117N		ECT	1,2S	-85	-1.7	5	5.2	0.0	2.3n	2.5n†	2.5n†	100m†	200m	3 8	2	G01-229	DL16be	
9#	GXB10104		ECT	1,4	-88	-1.7C	2	5.2	0.0	2.0n	2.0n†	2.0n†	100m†		0 7	4	G04-481	DL16r	
10#	GXB10108		ECT	1,4	-88	-1.7C	4	5.2	0.0	2.0n	2.0n†	2.0n†	50m†		0 7	2	G01-265	DL16r	
11	10108F		ECT	1,4	-96*	-1.7ΔC	4	5.2	0.0	2.8n	4.0n	4.0n	145m		3 8	2	G01-265	DL16t	
12	10108N		ECT	1,4	-96*	-1.7ΔC	4	5.2	0.0	2.8n	4.0n	4.0n	145m		3 8	2	G01-265	DL16be	
13#	HD10105		ECT	17	-81	-1.8C	5	5.2	0.0	2.0n			200m		3 8	3	G17-02	DL16p	
14#	HD10109		ECT	17	-81	-1.8C	5	5.2	0.0	2.0n			200m		3 8	2	G17-03	DL16p	
15#	HD10209		ECT	17	-81	-1.8C	5	5.2	0.0	1.5nΔ			200m		3 8	2	G17-03	DL16p	
16	10210F		ECT	2			3	5.2	0.0	1.7n	1.5n†	1.5n†	150m†		3 8	2	G02-195	DL16w	
17	10210N		ECT	2			3	5.2	0.0	1.7n	1.5n†	1.5n†	150m†		3 8	2	G02-195	DL16be	
18#	GXB10110		ECT	2	-88	-1.7C	3	5.2	0.0	2.4n	2.0n†	2.0n†	150m†		0 7	2	G02-165	DL16ag	
19#	GXB10210		ECT	2	-88	-1.7C	3	5.2	0.0	1.5n					0 7	2	G02-195	DL16r	
20	F10510DM		ECT	2	-93*	-1.6ΔC	3	40g	5.2	0.0	3.5nΔ		198m%	145m*	5 C	2	G02-207	DL16cj	
21	F10510FM		ECT	2	-93*	-1.6ΔC	3	40g	5.2	0.0	3.5nΔ		198m%	145m*	5 C	2	G02-207	FP103	
22	F10610DM		ECT	2	-93*	-1.6ΔC	3	40g	5.2	0.0	2.5nΔ		198m%	145m*	5 C	2	G02-212	DL16cj	
23	F10610FM		ECT	2	-93*	-1.6ΔC	3	40g	5.2	0.0	2.5nΔ		198m%	145m*	5 C	2	G02-212	FP103	
24	DM10110J		ECT	2	-96*	-1.6ΔC	3	5.2	0.0	3.5nΔ	3.5n	3.5n	197m%		3 8	2	G02-165	DL16ai	
25	F10110DD		ECT	2	-96*	-1.6ΔC	3	80g	5.2	0.0	3.5nΔ		198m%	145m*	0 7	2	G02-207	DL16cj	
26	F10210DC		ECT	2	-96*	-1.6ΔC	3	80g	5.2	0.0	2.5nΔ		198m%	145m*	0 7	2	G02-212	DL16cj	
27#	MB10103		ECT	2	-96*	-1.6ΔC	2	70	5.2	0.0	20n		100m†		3 8	4	G02-199	DL16ak	
28#	MB10103M		ECT	2	-96*	-1.6ΔC	2	70	5.2	0.0	20n		100m†		3 8	4	G02-199	DL16ap	
29#	MB10110		ECT	2	-96*	-1.6ΔC	3	70	5.2	0.0	24n	3.5n	3.5n	160m†		3 8	2	G02-165	DL16ak
30#	MB10110M		ECT	2	-96*	-1.6ΔC	3	70	5.2	0.0	24n	3.5n	3.5n	160m†		3 8	2	G02-165	DL16ap
31	MC1664F		ECT	2	-96*	-1.6ΔC	2	70	5.2	0.0	1.1n	2.1n	2.1n	240m†		3 8	4	G02-169	FP85
32	MC1664L		ECT	2	-96*	-1.6ΔC	2	70	5.2	0.0	1.1n	2.1n	2.1n	240m†		3 8	4	G02-169	DL16aj
33	MC10110L		ECT	2	-96*	-1.6ΔC	3	5.2	0.0	2.4n	2.2n†	2.2n†	160m†		3 8	2	G02-165	DL16aj	
34	MC10110P		ECT	2	-96*	-1.6ΔC	3	5.2	0.0	2.4n	2.2n†	2.2n†	160m†		3 8	2	G02-165	DL16bo	
35	MC10210L		ECT	2	-96*	-1.6ΔC	5	5.2	0.0	1.5n	1.5n†	1.5n†	150m†		3 8	2	G02-165	DL16aj	
36	MC10210P		ECT	2	-96*	-1.6ΔC	5	5.2	0.0	1.5n	1.5n†	1.5n†	150m†		3 8	2	G02-105	DL16bo	
37	10110F		ECT	2	-96*	-1.7ΔC	3	5.2	0.0	2.4n	3.5n	3.5n	150m%		3 8	2	G02-195	DL16t	
38	10110N		ECT	2	-96*	-1.7ΔC	5	5.2	0.0	1.5n	1.5n†	1.5n†	150m†		3 8	2	G02-105	DL16bo	
39	F95103DC		ECT	2	-1.1*	-1.4Δ	2	78g	5.2	0.0	3.1nΔ		135m%	140m*	0 7	4	G02-197	DL16cj	
40	F95110DC		ECT	2	-1.1*	-1.4Δ	3	78g	5.2	0.0	3.8nΔ		182m%	145m*	0 7	2	G02-207	DL16cj	
41	10118F		ECT	2,1	-85	-1.7	6	10	5.2	0.0	2.3n	2.5n†	2.5n†	100m†	200m	3 8	2	G02-209	DL16t
42	10118N		ECT	2,1	-85	-1.7	6	10	5.2	0.0	2.3n	2.5n†	2.5n†	100m†	200m	3 8	2	G02-209	DL16be
43	10119F		ECT	2,1	-85	-1.7	12	10	5.2	0.0	2.3n	2.5n†	2.5n†	100m†	200m	3 8	1	G02-210	DL16t
44	10119N		ECT	2,1	-85	-1.7	12	10	5.2	0.0	2.3n	2.5n†	2.5n†	100m†	200m	3 8	1	G02-210	DL16be
45#	GXB10118		ECT	2,1	-88	-1.7C	6	5.2	0.0	2.3n	2.5n†	2.5n†	100m†		0 7	2	G02-167	DL16ag	
46#	GXB10119		ECT	2,1	-88	-1.7C	4	5.2	0.0	2.3n	2.5n†	2.5n†	100m†		0 7	4	G02-168	DL16ag	
47	F10518DM		ECT	2,1	-93*	-1.6ΔC	6	40g	5.2	0.0	3.4nΔ		135m%	145m*	5 C	2	G02-209	DL16cj	
48	F10518FM		ECT	2,1	-93*	-1.6ΔC	6	40g	5.2	0.0	3.4nΔ		135m%	145m*	5 C	2	G02-209	FP103	
49	F10519DM		ECT	2,1	-93*	-1.6ΔC	4	40g	5.2	0.0	3.4nΔ		135m%	145m*	5 C	4	G02-210	DL16cj	
50	F10519FM		ECT	2,1	-93*	-1.6ΔC	4	40g	5.2	0.0	3.4nΔ		135m%	145m*	5 C	4	G02-210	FP103	
51	MC10518F		ECT	2,1	-93*	-1.6ΔC	6	5.2	0.0	3.4nΔ	4.0n	4.0n	100m†		5 C	2	G02-167	FP85	
52	MC10518L		ECT	2,1	-93*	-1.6ΔC	6	5.2	0.0	3.4nΔ	4.0n	4.0n	100m†		5 C	2	G02-167	DL16aj	
53	MC10519F		ECT	2,1	-93*	-1.6ΔC	4	5.2	0.0	3.4nΔ	4.0n	4.0n	100m†		5 C	4	G02-168	FP85	
54	MC10519L		ECT	2,1	-93*	-1.6ΔC	4	5.2	0.0	3.4nΔ	4.0n	4.0n	100m†		5 C	4	G02-168	DL16aj	
55	MC10521F		ECT	2,1	-93*	-1.6ΔC	3	5.2	0.0	3.4nΔ	4.0n	4.0n	100m†		5 C	4	G02-211	FP85	
56	MC10521L		ECT	2,1	-93*	-1.6ΔC	3	5.2	0.0	3.4nΔ	4.0n	4.0n	100m†		5 C	4	G02-211	DL16aj	
57	F10118DC		ECT	2,1	-96*	-1.6ΔC	6	80g	5.2	0.0	3.4nΔ		135m%	145m*	0 7	2	G02-209	DL16cj	
58	F10119DC		ECT	2,1	-96*	-1.6ΔC	4	80g	5.2	0.0	3.4nΔ		135m%	145m*	0 7	4	G02-210	DL16cj	
59#	MB10118		ECT	2,1	-96*	-1.6ΔC	3	70	5.2	0.0	2.3n	4.0n	4.0n	100m†		3 8	2	G02-167	DL16ak
60#	MB10118M		ECT	2,1	-96*	-1.6ΔC	3	70	5.2	0.0	2.3n	4.0n	4.0n	100m†		3 8	2	G02-167	DL16ap
61#	MB10119		ECT	2,1	-96*	-1.6ΔC	3	70	5.2	0.0	2.3n	4.0n	4.0n	100m†		3 8	1	G02-168	DL16ak
62#	MB10119M		ECT	2,1	-96*	-1.6ΔC	3	70	5.2	0.0	2.3n	4.0n	4.0n	100m†		3 8	1	G02-168	DL16ap
63#	MC10118L		ECT	2,1	-96*	-1.6ΔC	6	5.2	0.0	2.3n	4.0n	4.0n	100m†		3 8	2	G02-167	DL16aj	
64	MC10118P		ECT	2,1	-96*	-1.6ΔC	6	5.2	0.0	2.3n	4.0n	4.0n	100m†		3 8	2	G02-167	DL16bo	
65	MC10119L		ECT	2,1	-96*	-1.6ΔC	4	5.2	0.0	2.3n	4.0n	4.0n	100m†		3 8	4	G02-168	DL16aj	
66	MC10119P		ECT	2,1	-96*	-1.6ΔC	4	5.2	0.0	2.3n	4.0n	4.0n	100m†		3 8	4	G02-168	DL16bo	
67	F10517DM		ECT	2,1G	-93*	-1.6ΔC	5	40g	5.2	0.0			135m%	145m*	5 C	2	G02-208	DL16cj	
68	F10517FM		ECT	2,1G	-93*	-1.6ΔC	5	40g	5.2	0.0			135m%	145m*	5 C	2	G02-208	FP103	
69	F10521DM		ECT	2,1G	-93*	-1.6ΔC	3	40g	5.2	0.0	3.4nΔ		135m%	145m*	5 C	4	G02-211	DL16cj	
70	F10521FM		ECT	2,1G	-93*	-1.6ΔC	3	40g	5.2	0.0	3.4nΔ		135m%	145m*	5 C	4	G02-211	FP103	
71	MC10517F		ECT	2,1G	-93*	-1.6ΔC	5	5.2	0.0	3.4nΔ	4.0n	4.0n	100m†		5 C	2	G02-166	FP85	
72	MC10517L		ECT	2,1G	-93*	-1.6ΔC	5	5.2	0.0	3.4nΔ	4.0n	4.0n	100m†		5 C	2	G02-166	DL16aj	
73	F10117DC		ECT	2,1G	-96*	-1.6ΔC	5	80g	5.2	0.0			135m%	145m*	0 7	2	G02-208	DL16cj	
74	F10121DC		ECT	2,1G	-96*	-1.6ΔC	3	80g	5.2	0.0	3.4nΔ		135m%	145m*	0 7	4	G02-211	DL16cj	
75#	MB10111		ECT	2,1G	-96*	-1.6ΔC	5	70	5.2	0.0	2.3n	4.0n	4.0n	100m†		3 8	2	G02-166	DL16ak
76#	MB10117M		ECT	2,1G	-96*	-1.6ΔC	5	70	5.2	0.0	2.3n	4.0n	4.0n	100m†		3 8	2	G02-166	DL16ap
77#	MB10121		ECT	2,1G	-96*	-1.6ΔC	3												

5. GATES

IN ORDER OF (1) TECHNOLOGY (2) TYPE (3) LOGIC (4) LOGIC (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN OUT MAX.		POWER SUPPLY SPAN		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS			
					3 MIN. (V)	4 MAX. (V)	IN	OUT	NEG. (V)	POS. (V)		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE		
1	JANM38510/06003BEA		ECT	2,3	-.93*	-1.6ΔC	3	10	5.2	0.0	3.7nΔ			165m		5	C	3	G02-163	DL16br	
2	JANM38510/06003BEB		ECT	2,3	-.93*	-1.6ΔC	3	10	5.2	0.0	3.7nΔ			165m		5	C	3	G02-163	DL16br	
3	JANM38510/06003CEA		ECT	2,3	-.93*	-1.6ΔC	3	10	5.2	0.0	3.7nΔ			165m		5	C	3	G02-163	DL16br	
4	JANM38510/06003CEB		ECT	2,3	-.93*	-1.6ΔC	3	10	5.2	0.0	3.7nΔ			165m		5	C	3	G02-163	DL16br	
5	JANM38510/06006BEA		ECT	2,3	-.93*	-1.6ΔC	5	10	5.2	0.0	3.7nΔ			110m		5	C	2	G02-164	DL16br	
6	JANM38510/06006BEB		ECT	2,3	-.93*	-1.6ΔC	5	10	5.2	0.0	3.7nΔ			110m		5	C	2	G02-164	DL16br	
7	JANM38510/06006CEA		ECT	2,3	-.93*	-1.6ΔC	5	10	5.2	0.0	3.7nΔ			110m		5	C	2	G02-164	DL16br	
8	JANM38510/06006CEB		ECT	2,3	-.93*	-1.6ΔC	5	10	5.2	0.0	3.7nΔ			110m		5	C	2	G02-164	DL16br	
9	MC10501F		ECT	2,3	-.93*	-1.6ΔC	5	10	5.2	0.0	3.7nΔ			110m		5	C	2	G02-164	DL16br	
10	MC10501L		ECT	2,3	-.93*	-1.6ΔC	5	10	5.2	0.0	2.0n	3.3n	3.3n	100m†		5	C	4	G02-178	FP85	
11	MC10505F		ECT	2,3	-.93*	-1.6ΔC	5	10	5.2	0.0	2.0n	3.3n	3.3n	100m†		5	C	4	G02-178	DL16aj	
12	MC10505L		ECT	2,3	-.93*	-1.6ΔC	5	10	5.2	0.0	2.9nΔ	3.3n	3.3n	90m†		5	C	3	G03-279	FP85	
13	MC10509F		ECT	2,3	-.93*	-1.6ΔC	5	10	5.2	0.0	2.9nΔ	3.3n	3.3n	90m†		5	C	3	G03-279	DL16aj	
14	MC10509L		ECT	2,3	-.93*	-1.6ΔC	5	10	5.2	0.0	2.9nΔ	3.3n	3.3n	60m†		5	C	2	G02-164	FP85	
15	F11C01FC		ECT	2,3	-.96*	-1.6ΔC	5	10	5.2	0.0	2.9nΔ	3.3n	3.3n	60m†		5	C	2	G02-164	DL16aj	
16	F10101DC		ECT	2,3	-.96*	-1.6ΔC	5	10	83g	5.2	0.0	950u		156m*	145m*	0	7	2	G02-194	FP103	
17	F10105DC		ECT	2,3	-.96*	-1.6ΔC	5	10	80g	5.2	0.0	2.9nΔ		135m*	145m*	0	7	2	G02-205	DL16cj	
18	F10109DC		ECT	2,3	-.96*	-1.6ΔC	5	10	80g	5.2	0.0	2.9nΔ		109m*	145m*	0	7	3	G02-204	DL16cj	
19#	MB10101		ECT	2,3	-.96*	-1.6ΔC	3	70	70	5.2	0.0	2.0n	3.3n	3.3n	100m†		3	8	4	G02-162	DL16ak
20#	MB10101M		ECT	2,3	-.96*	-1.6ΔC	5	70	5.2	0.0	2.0n	3.3n	3.3n	100m†		3	8	4	G02-162	DL16ap	
21#	MB10105		ECT	2,3	-.96*	-1.6ΔC	3	70	5.2	0.0	2.0n	3.3n	3.3n	90m†		3	8	3	G02-163	DL16ak	
22#	MB10105M		ECT	2,3	-.96*	-1.6ΔC	3	70	5.2	0.0	2.0n	3.3n	3.3n	90m†		3	8	3	G02-163	DL16ap	
23#	MB10109		ECT	2,3	-.96*	-1.6ΔC	5	70	5.2	0.0	2.0n	3.3n	3.3n	60m†		3	8	2	G02-163	DL16ak	
24#	MB10109M		ECT	2,3	-.96*	-1.6ΔC	5	70	5.2	0.0	2.0n	3.3n	3.3n	60m†		3	8	2	G02-163	DL16ap	
25	MC1660F		ECT	2,3	-.96*	-1.6ΔC	4	70	5.2	0.0	1.1n	2.1n	2.1n	120m†		3	8	2	G02-161	FP85	
26	MC1660L		ECT	2,3	-.96*	-1.6ΔC	4	70	5.2	0.0	1.1n	2.1n	2.1n	120m†		3	8	2	G02-161	DL16aj	
27	MC1688F		ECT	2,3	-.96*	-1.6ΔC	5	70	5.2	0.0	1.3n	1.7n†	1.7n†	156m	115m*	3	8	2	G02-206	FP85	
28	MC1688L		ECT	2,3	-.96*	-1.6ΔC	5	70	5.2	0.0	1.3n	1.4n	1.4n	156m	115m*	3	8	2	G02-206	DL16am	
29	MC10101L		ECT	2,3	-.96*	-1.6ΔC	5	10	5.2	0.0	2.0n	2.0n†	2.0n†	100m†		3	8	4	G02-162	DL16aj	
30	MC10101P		ECT	2,3	-.96*	-1.6ΔC	5	10	5.2	0.0	2.0n	2.0n	2.0n	100m†		3	8	4	G02-162	DL16bo	
31	MC10105L		ECT	2,3	-.96*	-1.6ΔC	3	90	5.2	0.0	2.0n	2.0n	2.0n	90m†		3	8	3	G02-163	DL16aj	
32	MC10105P		ECT	2,3	-.96*	-1.6ΔC	3	90	5.2	0.0	2.0n	2.0n	2.0n	90m†		3	8	3	G02-163	DL16bo	
33	MC10109L		ECT	2,3	-.96*	-1.6ΔC	5	90	5.2	0.0	2.0n	2.0n†	2.0n†	60m†		3	8	2	G02-164	DL16aj	
34	MC10109P		ECT	2,3	-.96*	-1.6ΔC	5	90	5.2	0.0	2.0n	2.0n†	2.0n†	60m†		3	8	2	G02-164	DL16bo	
35	MC10212L		ECT	2,3	-.96*	-1.6ΔC	3	3	5.2	0.0	1.5n	1.5n†	1.5n†	160m†		3	8	2	G02-200	DL16am	
36	MC10212P		ECT	2,3	-.96*	-1.6ΔC	3	3	5.2	0.0	1.5n	1.5n†	1.5n†	160m†		3	8	2	G02-200	DL16j	
37	10101F		ECT	2,3	-.96*	-1.7ΔC	2	2	5.2	0.0	20n	3.3n	3.3n	100m%		3	8	4	G02-178	DL16t	
38	10103F		ECT	2,3	-.96*	-1.7ΔC	2	2	5.2	0.0	2.0n	3.3n	3.3n	100m		3	8	4	G02-197	DL16t	
39#	10103N		ECT	2,3	-.96*	-1.7ΔC	2	2	5.2	0.0	2.0n	3.3n	3.3n	100m		3	8	4	G02-197	DL16be	
40	10105F		ECT	2,3	-.96*	-1.7ΔC	2	2	5.2	0.0	2.0n	3.3n	3.3n	75m%		3	8	3	G02-179	DL16t	
41#	10105N		ECT	2,3	-.96*	-1.7ΔC	2	2	5.2	0.0	2.0n	3.3n	3.3n	75m%		3	8	3	G02-179	DL16be	
42	10109F		ECT	2,3	-.96*	-1.7ΔC	5	5	5.2	0.0	2.0n	3.3n	3.3n	50m%		3	8	2	G02-194	DL16t	
43#	10109N		ECT	2,3	-.96*	-1.7ΔC	5	5	5.2	0.0	2.0n	3.3n	3.3n	50m%		3	8	2	G02-194	DL16be	
44	10112F		ECT	2,3	-.96*	-1.7ΔC	3	3	5.2	0.0	2.4n	3.5n	3.5n	150m%		3	8	2	G02-196	DL16t	
45#	10112N		ECT	2,3	-.96*	-1.7ΔC	3	3	5.2	0.0	2.4n	3.5n	3.5n	150m%		3	8	2	G02-196	DL16be	
46	F95002DC		ECT	2,3	-1.1*	-1.4Δ	5	78g	5.2	0.0	3.1nΔ			73m%	140m*	0	7	2	G02-212	DL16cj	
47	F95003DC		ECT	2,3	-1.1*	-1.4Δ	3	78g	5.2	0.0	3.1nΔ			109m%	140m*	0	7	3	G02-213	DL16cj	
48	F95101DC		ECT	2,3	-1.1*	-1.4Δ	2	78g	5.2	0.0	3.1nΔ			135m%	140m*	0	7	4	G02-205	DL16cj	
49	F95105DC		ECT	2,3	-1.1*	-1.4Δ	3	78g	5.2	0.0	3.1nΔ			109m%	140m*	0	7	3	G02-204	DL16cj	
50	F95109DC		ECT	2,3	-1.1*	-1.4Δ	3	78g	5.2	0.0	3.1nΔ			73m%	140m*	0	7	2	G02-206	DL16cj	
51	DM10101J		ECT	2,3G	-.96*	-1.6ΔC	5	5	5.2	0.0	2.9nΔ	3.3n	3.3n	25m†		3	8	1	G02-162	DL16ai	
52	DM10105J		ECT	2,3G	-.96*	-1.6ΔC	3	3	5.2	0.0	2.0n	2.0n†	2.0n†	109m%		3	8	3	G02-163	DL16ai	
53	DM10109J		ECT	2,3G	-.96*	-1.6ΔC	3	3	5.2	0.0	2.9nΔ	3.3n	3.3n	72m%		3	8	2	G02-164	DL16ai	
54	DM10112J		ECT	2,3G	-.96*	-1.6ΔC	3	3	5.2	0.0	3.5nΔ	3.5n	3.5n	197m%		3	8	2	G03-263	DL16ai	
55	MC10503F		ECT	2S	-.93*	-1.6ΔC	2	2	5.2	0.0	2.9n	3.3n	3.3n	135m	125m*	5	C	4	G02-199	FP85	
56	MC10503L		ECT	2S	-.93*	-1.6ΔC	2	2	5.2	0.0	2.9n	3.3n	3.3n	135m	125m*	5	C	4	G02-199	DL16am	
57	MC10103L		ECT	2S	-.96*	-1.6ΔC	2	2	5.2	0.0	2.9n	3.3n	3.3n	135m	125m*	3	8	4	G02-199	DL16am	
58	MC10103P		ECT	2S	-.96*	-1.6ΔC	2	2	5.2	0.0	2.9n	3.3n	3.3n	135m	125m*	3	8	4	G02-199	DL16bo	
59	10211F		ECT	3			3	3	5.2	0.0	1.7n	1.5n†	1.5n†	150m†		3	8	2	G03-294	DL16w	
60#	10211N		ECT	3			3	3	5.2	0.0	1.7n	1.5n†	1.5n†	150m†		3	8	2	G03-294	DL16be	
61#	HD10102		ECT	3	-.81	-1.8C			5.2	0.0	2.0n			200m		3	8	4	G03-322	DL16p	
62#	HD10106		ECT	3	-.81	-1.8C			5.2	0.0	2.0n			200m		3	8	3	G03-323	DL16p	
63#	HD10111		ECT	3	-.81	-1.8C			5.2	0.0	2.4n			200m		3	8	2	G03-324	DL16p	
64#	HD10211		ECT	3	-.81	-1.8C			5.2	0.0	1.5n			200m		3	8	2	G03-324	DL16p	
65#	GXB10100		ECT	3	-.88	-1.7C	3	3	5.2	0.0	2.0n	2.0n†	2.0n†	100m†		0	7	4	G03-293	DL16r	
66#	GXB10102		ECT	3	-.88	-1.7C	2	2	5.2	0.0	2.0n	2.0n†	2.0n†	100m†		0	7	4	G03-293	DL16ag	
67#	GXB10106		ECT	3	-.88	-1.7C	4	4	5.2	0.0	2.0n	2.0n†	2.0n†	75m†		0	7	3	G03-265	DL16ag	
68#	GXB10111		ECT	3	-.88	-1.7C	3	3	5.2	0.0	2.4n	2.1n†	2.1n†	150m†		0	7	2	G03-263	DL16ag	
69#	GXB10211		ECT	3	-.88	-1.7C	3	3	5.2	0.0	1.5n			150m†		0	7	2	G03-294	DL16r	
70	F10502DM		ECT	3	-.93*	-1.6ΔC	2	40g	5.2	0.0	2.9nΔ			135m%	145m*	5	C	4	G03-310	DL16cj	
71	F10502FM		ECT	3	-.93*	-1.6ΔC	2	40g	5.2	0.0	2.9nΔ			135m%	145m*	5	C	4	G03-310	FP103	
72	F10503DM		ECT	3	-.93*	-1.6ΔC	2	40g	5.2	0.0	2.9nΔ			135m%	145m*	5	C	4	G03-310a	DL	

5. GATES

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC (4) LOGIC (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN IN		POWER SUPPLY SPAN		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS		
					3 MIN. (V)	4 MAX. (V)	IN	OUT MAX.	NEG. (V)	POS (V)		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE	
1	F10102DC		ECT	3	-96*	-1.6ΔC	2	80g	5.2	0.0	2.9nΔ			135m*	145m*	0	7	4	G03-310	DL16cj
2	F10103DC		ECT	3	-96*	-1.6ΔC	2	80g	5.2	0.0	2.9nΔ			135m*	145m*	0	7	4	G03-310a	DL16cj
3	F10106DC		ECT	3	-96*	-1.6ΔC	2	80g	5.2	0.0	2.9nΔ			109m*	145m*	0	7	3	G03-311	DL16cj
4	F10111DC		ECT	3	-96*	-1.6ΔC	3	80g	5.2	0.0	3.5nΔ			198m*	145m*	0	7	2	G03-313	DL16cj
5	F10211DC		ECT	3	-96*	-1.6ΔC	3	80g	5.2	0.0	2.5nΔ			198m*	145m*	0	7	2	G03-314	DL16cj
6#	MB10102		ECT	3	-96*	-1.6ΔC	2	70	5.2	0.0	2.0n	3.3n	3.3n	100m†		3	8	4	*	DL16ak
7#	MB10102M		ECT	3	-96*	-1.6ΔC	2	70	5.2	0.0	2.0n	3.3n	3.3n	100m†		3	8	4	*	DL16ap
8#	MB10106		ECT	3	-96*	-1.6ΔC	4	70	5.2	0.0	2.0n	3.3n	3.3n	90m†		3	8	3	G03-265	DL16ak
9#	MB10106M		ECT	3	-96*	-1.6ΔC	4	70	5.2	0.0	2.0n	3.3n	3.3n	90m†		3	8	3	G03-265	DL16ap
10#	MB10111		ECT	3	-96*	-1.6ΔC	3	70	5.2	0.0	2.4n	3.5n	3.5n	160m†		3	8	2	G03-263	DL16ak
11#	MB10111M		ECT	3	-96*	-1.6ΔC	3	70	5.2	0.0	2.4n	3.5n	3.5n	160m†		3	8	2	G03-263	DL16ap
12	MC1662F		ECT	3	-96*	-1.6ΔC	2	70	5.2	0.0	1.1n	2.1n	2.1n	240m†		3	8	4	G03-66	FP85
13	MC1662L		ECT	3	-96*	-1.6ΔC	2	70	5.2	0.0	1.1n	2.1n	2.1n	240m†		3	8	4	G03-66	DL16aj
14	MC10100L		ECT	3	-96*	-1.6ΔC	3	50	5.2	0.0	2.9n	3.3n	3.3n	135m	125m*	3	8	4	G03-293	DL16am
15	MC10100P		ECT	3	-96*	-1.6ΔC	3	50	5.2	0.0	2.9n	3.3n	3.3n	135m	125m*	3	8	4	G03-293	DL16bo
16	MC10102L		ECT	3	-96*	-1.6ΔC	2	90	5.2	0.0	2.0n	2.0n†	2.0n†	100m†		3	8	4	*	DL16aj
17	MC10102P		ECT	3	-96*	-1.6ΔC	2	90	5.2	0.0	2.0n	2.0n†	2.0n†	100m†		3	8	4	*	DL16bo
18	MC10106L		ECT	3	-96*	-1.6ΔC	4	70	5.2	0.0	2.0n	3.3n	3.3n	90m†		3	8	3	G03-265	DL16aj
19	MC10106P		ECT	3	-96*	-1.6ΔC	4	70	5.2	0.0	2.0n	3.3n	3.3n	90m†		3	8	3	G03-265	DL16bo
20	MC10111L		ECT	3	-96*	-1.6ΔC	3	50	5.2	0.0	2.4n	3.5n	3.5n	160m†		3	8	2	G03-263	DL16aj
21	MC10111P		ECT	3	-96*	-1.6ΔC	3	50	5.2	0.0	2.4n	3.5n	3.5n	160m†		3	8	2	G03-263	DL16bo
22	MC10211L		ECT	3	-96*	-1.6ΔC	5	50	5.2	0.0	1.5n	1.5n†	1.5n†	150m†		3	8	2	G02-165	DL16aj
23	MC10211P		ECT	3	-96*	-1.6ΔC	5	50	5.2	0.0	1.5n	1.5n†	1.5n†	150m†		3	8	2	G02-165	DL16bo
24	10100F		ECT	3	-96*	-1.7ΔC	3	50	5.2	0.0	20n	3.3n	3.3n	100m*		3	8	4	G03-293	DL16t
25▼	10100N		ECT	3	-96*	-1.7ΔC	3	50	5.2	0.0	20n	3.3n	3.3n	100m*		3	8	4	G03-293	DL16be
26	10102F		ECT	3	-96*	-1.7ΔC	2	25	5.2	0.0	2.0n	3.3n	3.3n	100m*		3	8	4	G03-272	DL16t
27▼	10102N		ECT	3	-96*	-1.7ΔC	2	25	5.2	0.0	2.0n	3.3n	3.3n	100m*		3	8	4	G03-272	DL16be
28	10106F		ECT	3	-96*	-1.7ΔC	4	25	5.2	0.0	2.0n	3.3n	3.3n	75m*		3	8	3	G03-271	DL16t
29▼	10106N		ECT	3	-96*	-1.7ΔC	4	25	5.2	0.0	2.0n	3.3n	3.3n	75m*		3	8	3	G03-271	DL16be
30	10111F		ECT	3	-96*	-1.7ΔC	3	50	5.2	0.0	2.4n	3.5n	3.5n	150m*		3	8	2	G03-294	DL16t
31▼	10111N		ECT	3	-96*	-1.7ΔC	3	50	5.2	0.0	2.4n	3.5n	3.5n	150m*		3	8	2	G03-294	DL16be
32	F95004DC		ECT	3	-1.1*	-1.4Δ	3	78g	5.2	0.0	3.1nΔ			135m*	140m*	0	7	4	G03-314	DL16cj
33	F95102DC		ECT	3	-1.1*	-1.4Δ	2	78g	5.2	0.0	3.1nΔ			135m*	140m*	0	7	4	G03-310	DL16cj
34	F95106DC		ECT	3	-1.1*	-1.4Δ	4	78g	5.2	0.0	3.1nΔ			109m*	140m*	0	7	3	G03-311	DL16cj
35	F95111DC		ECT	3	-1.1*	-1.4Δ	3	78g	5.2	0.0	3.8nΔ			198m*	145m*	0	7	2	G03-313	DL16cj
36	N1004A		ECT	3,4	-85	-1.8	4	25	5.2	0.0	4.0n			95m	400m	0	7			TO116
37	N1005A		ECT	3,4	-85	-1.8	4	25	5.2	0.0	4.0n			65m	400m	0	7			TO116
38	N1006A		ECT	3,4	-85	-1.8	4	25	5.2	0.0	4.0n			45m	400m	0	7			TO116
39	N1010A		ECT	3,4	-85	-1.8	2	25	5.2	0.0	4.5n			115m	400m	0	7			TO116
40	N1011A		ECT	3,4	-85	-1.8	2	25	5.2	0.0	4.5n			95m	400m	0	7			TO116
41	N1024A		ECT	3,4	-85	-1.8	2	25	5.2	0.0	4.0n			95m	400m	0	7			TO116
42	F10500DM		ECT	3F	-93*	-1.6ΔC	3	40g	5.2	0.0	2.9nΔ			135m*	145m*	5	C		G03-312	DL16cj
43	F10500FM		ECT	3F	-93*	-1.6ΔC	3	40g	5.2	0.0	2.9nΔ			135m*	145m*	5	C		G03-312	FP103
44	F10100DC		ECT	3F	-96*	-1.6ΔC	3	80g	5.2	0.0	2.9nΔ			135m*	145m*	0	7			DL16cj
45	DM10102J		ECT	3G	-96*	-1.6ΔC	2	50	5.2	0.0	2.9nΔ	3.3n	3.3n	100m†		3	8	4	G03-277	DL16ai
46	DM10111J		ECT	3G	-96*	-1.6ΔC	2	50	5.2	0.0	3.5nΔ	3.5n	3.5n	197m*		3	8	2	G03-263	DL16ai
47	N1012A		ECT	4	-85	-1.8	2	25	5.2	0.0	4.5n	8.0n	8.0n	65m	400m	0	7			TO116
48	10104F		ECT	4	-96*	-1.7ΔC	2	25	5.2	0.0	2.7n	2.0n†	2.0n†	40m		3	8	4	G04-481	DL16t
49▼	10104N		ECT	4	-96*	-1.7ΔC	2	25	5.2	0.0	2.7n	2.0n†	2.0n†	40m		3	8	4	G04-481	DL16be
50#	GXB10113		ECT	5	-88	-1.7C	2	40g	5.2	0.0	2.0n	2.0n†	2.0n†	100m†		0	7	4	G05-124	DL16r
51#	F10513DM		ECT	5	-93*	-1.6ΔC	2	40g	5.2	0.0	3.7nΔ			218m*	145m*	5	C	4	G05-132	DL16cj
52	F10513FM		ECT	5	-93*	-1.6ΔC	2	40g	5.2	0.0	3.7nΔ			218m*	145m*	5	C	4	G05-132	FP103
53	MC10513F		ECT	5	-93*	-1.6ΔC	2	50	5.2	0.0	4.5n	3.9n	3.9n	218m	125m*	5	C	4	G05-132	FP85
54	MC10513L		ECT	5	-93*	-1.6ΔC	2	50	5.2	0.0	4.5n	3.9n	3.9n	218m	125m*	5	C	4	G05-132	DL16am
55	F10113DC		ECT	5	-96*	-1.6ΔC	2	80g	5.2	0.0	3.7nΔ			218m*	145m*	0	7	4	G05-132	DL16cj
56	MC1672F		ECT	5	-96*	-1.6ΔC	2	70	5.2	0.0	1.3n	2.5n	2.2n	220m†		3	8	3	G05-107	FP85
57	MC1672L		ECT	5	-96*	-1.6ΔC	2	70	5.2	0.0	1.3n	2.5n	2.2n	220m†		3	8	3	G05-107	DL16aj
58	MC10113L		ECT	5	-96*	-1.6ΔC	2	50	5.2	0.0	4.5n	3.9n	3.9n	218m	125m*	3	8	4	G05-132	DL16am
59	MC10113P		ECT	5	-96*	-1.6ΔC	2	50	5.2	0.0	4.5n	3.9n	3.9n	218m	125m*	3	8	4	G05-132	DL16j
60	10113F		ECT	5	-96*	-1.7ΔC	2	50	5.2	0.0	2.5n	2.5n†	2.5n†	165m*		3	8	4	G05-124	DL16t
61▼	10113N		ECT	5	-96*	-1.7ΔC	2	50	5.2	0.0	2.5n	2.5n†	2.5n†	165m*		3	8	4	G05-124	DL16be
62#	GXB10107		ECT	5,7	-88	-1.7C	2	40g	5.2	0.0	2.4n	2.5n†	2.5n†	115m†		0	7	3	G05-108	DL16ag
63#	F10507DM		ECT	5,7	-93*	-1.6ΔC	2	40g	5.2	0.0	3.7nΔ			146m*	145m*	5	C	3	G05-131	DL16cj
64	F10507FM		ECT	5,7	-93*	-1.6ΔC	2	40g	5.2	0.0	3.7nΔ			146m*	145m*	5	C	3	G05-131	FP103
65	JANM38510/06005BEA		ECT	5,7	-93*	-1.6ΔC	2	10	5.2	0.0	4.5nΔ			165m		5	C	3	G05-108	DL16br
66	JANM38510/06005BEB		ECT	5,7	-93*	-1.6ΔC	2	10	5.2	0.0	4.5nΔ			165m		5	C	3	G05-108	DL16br
67	JANM38510/06005CEA		ECT	5,7	-93*	-1.6ΔC	2	10	5.2	0.0	4.5nΔ			165m		5	C	3	G05-108	DL16br
68	JANM38510/06005CEB		ECT	5,7	-93*	-1.6ΔC	2	10	5.2	0.0	4.5nΔ			165m		5	C	3	G05-108	DL16br
69	MC10507F		ECT	5,7	-93*	-1.6ΔC	2	10	5.2	0.0	4.5nΔ	3.5n	3.5n	120m†		5	C	3	G05-108	FP85
70	MC10507L		ECT	5,7	-93*	-1.6ΔC	2	10	5.2	0.0	3.7nΔ	3.5n	3.5n	120m†		5	C	3	G05-108	DL16aj
71	F10107DC		ECT	5,7	-96*	-1.6ΔC	2	80g	5.2	0.0	3.7nΔ			146m*	145m*	0	7	3	G05-131	DL16cj
72#	MB10107		ECT	5,7	-96*	-1.6ΔC	2	70	5.2	0.0	2.5n	3.5n	3.5n	120m†		3	8	3	G05-108	DL16ak
73#	MB10107M		ECT	5,7	-96*	-1.6ΔC	2	70	5.2	0.0	2.5n	3.5n	3.5n	120m†		3	8	3	G05-108	DL16ap
74	MC10107																			

5. GATES

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC (4) LOGIC (5) TYPE NO.

LINE NO.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN IN		POWER SUPPLY SPAN		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS		
					3 | MIN. '1' (V)	4 | MAX. '0' (V)	IN	OUT MAX.	NEG. (V)	POS (V)		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE	
1#	K176LE10		MOS	3	8.2	0.3	6	50	0.0	9.0	250n			300m	0.9	1	7	2	G03-276	DLZ
2#	TC4000BP		MOS	3	14.9	.05*	3	50	0.0	15	80nΔ	80n	80n		4.0	4	8	2	G03-296	
3#	K176LA7		MOS	4	8.2	0.3	8	50	0.0	9.0	250n				0.9	1	7	4	G04-433	
4#	K176LAB		MOS	4	8.2	0.3	8	50	0.0	9.0	250n				0.9	1	7	2	G04-434	
5#	K176LA9		MOS	4	8.2	0.3	9	50	0.0	9.0	250n				0.9	1	7	3	G04-480	
6#	TC4501BP		MOS	4,3	14.9	.05*	4	50	0.0	15	100nΔ	80n	80n	300m	4.0	4	8	2	G04-452	DLZ
7#	TC4077BP		MOS	7	14.9	.05*	2	50	0.0	15	100nΔ	80n	80n	300m	4.0	4	8	4	G07-5	DLZ
8	MM74PC08J		PCH	1	4.0	1.0	8		0.0	5.0	17n			500m		0	7	4	74-08	DL14dh
9	MM74PC08J		PCH	1	4.0	1.0	8		0.0	5.0	17n			500m		4	8	4	74-08	DL14dh
10	MM74PC08N		PCH	1	4.0	1.0	8		0.0	5.0	17n			500m		0	7	4	74-08	DL14bt
11	MM74PC08NI		PCH	1	4.0	1.0	8		0.0	5.0	17n			500m		4	8	4	74-08	DL14bt
12	MM74PC32J		PCH	2	4.0	1.0	8		0.0	5.0	14n			500m		0	7	4	74-32	DL14dh
13	MM74PC32J		PCH	2	4.0	1.0	8		0.0	5.0	14n			500m		4	8	4	74-32	DL14dh
14	MM74PC32N		PCH	2	4.0	1.0	8		0.0	5.0	14n			500m		0	7	4	74-32	DL14bt
15	MM74PC32NI		PCH	2	4.0	1.0	8		0.0	5.0	14n			500m		4	8	4	74-32	DL14bt
16	MM74PC02J		PCH	3	4.0	1.0	8		0.0	5.0	15n			500m		0	7	4	74-02	DL14dh
17	MM74PC02J		PCH	3	4.0	1.0	8		0.0	5.0	15n			500m		4	8	4	74-02	DL14dh
18	MM74PC02N		PCH	3	4.0	1.0	8		0.0	5.0	15n			500m		0	7	4	74-02	DL14bt
19	MM74PC02NI		PCH	3	4.0	1.0	8		0.0	5.0	15n			500m		4	8	4	74-02	DL14bt
20	MM74PC00J		PCH	4	4.0	1.0	8		0.0	5.0	18n			500m		0	7	4	74-00	DL14dh
21	MM74PC00J		PCH	4	4.0	1.0	8		0.0	5.0	18n			500m		4	8	4	74-00	DL14dh
22	MM74PC00N		PCH	4	4.0	1.0	8		0.0	5.0	18n			500m		0	7	4	74-00	DL14bt
23	MM74PC00NI		PCH	4	4.0	1.0	8		0.0	5.0	18n			500m		4	8	4	74-00	DL14bt
24	MM74PC04J		PCH	8	4.0	1.0	6		0.0	5.0	22n			500m		0	7	6	74-04	DL14dh
25	MM74PC04J		PCH	8	4.0	1.0	6		0.0	5.0	22n			500m		4	8	6	74-04	DL14dh
26	MM74PC04N		PCH	8	4.0	1.0	6		0.0	5.0	22n			500m		0	7	6	74-04	DL14bt
27	MM74PC04NI		PCH	8	4.0	1.0	6		0.0	5.0	22n			500m		4	8	6	74-04	DL14bt
28	LCE308		RTL	1	6.0	0.0C	5		6	12	25n	30n	38n	450m		4	A	1	G01-85	CN27
29	LCE410		RTL	1	6.0	0.0C	4		6	12	25n	30n	38n	450m		4	A	1	G01-85a	MD2A
30	LCE309		RTL	2	6.0	0.0C	5		6	12	25n	30n	36n	250m		4	A	1	G02-24	CN27
31	LCE411		RTL	2	6.0	0.0C	4		6	12	25n	30n	36n	250m		4	A	1	G02-24a	MD2A
32	909HC		RTL	3			2	30	0.0	3.6	40n			250m	250m	0	7	1	G03-36	TO99
33	909HM		RTL	3			2	30	0.0	3.6	40n			250m	250m	0	7	1	G03-36	TO99
34	SN17909L		RTL	3			2	30	0	8				10m†		5	C	1	G03-36	CN13
35	SN17910L		RTL	3			2	4	0	8				4m†		5	C	2	G03-153	CN13
36	LCE302		RTL	3	6.0	0.0C	5		6	12	25n	60n	20n	140m		4	A	1	G03-27	CN27
37	LCE310		RTL	3	6.0	0.0C	5		6	12	25n	28n	82n	140m		4	A	1	G03-29	CN27
38#	LCE402		RTL	3	6.0	0.0C	4		6.0	12	25n	28n	82n	140m		4	A	1		MD2A
39	LCE502		RTL	3	6.0	0.0C	4		6	12	25n					3	8	1		MD2A
40	LCE702		RTL	3	6.0	0.0C	4		6	12	30n					1	6	1		MD2A
41	SN17911L		RTL	3G		Δ	4	7	0	8				4m†		5	C	1	G03-154	CN13
42	903HM		RTL	3M			3	16	0.0	3.6	15n			20m	250m	0	7	1	G03-89	TO99
43	907HM		RTL	3M			4	16	0.0	3.6	15n			20m	250m	0	7	1	G03-80	TO99
44	910HM		RTL	3M			2	4	0.0	3.6	15n			40m	250m	0	7	2		TO99
45	914HM		RTL	3M			2	16	0.0	3.6	15n			30m	0	7	2	G03-153	TO99	
46	9903HC		RTL	3M			3	16	0.0	3.6	15n			20m	250m	0	7	1	G03-89	TO99
47	9907HC		RTL	3M			4	16	0.0	3.6	15n			20m	250m	0	7	1	G03-80	TO99
48	9914HC		RTL	3M			2	16	0.0	3.6	15n			300m	0	7	2	G03-153	TO99	
49	911HM		RTL	3S			4	7	0.0	3.6	15n			20m	250m	0	7	1	G03-58	TO99
50	915HM		RTL	3S			3	16	0.0	3.6	15n			40m	250m	0	7	2	G03-77	CBZ
51	9915HC		RTL	3S			3	16	0.0	3.6	15n			40m	250m	0	7	2	G03-77	TO100
52	LCE303		RTL	4	6.0	0.0C	5		6	12	25n	44n	80n	25m		4	A	1	G04-80	CN27
53	LCE403		RTL	4	6.0	0.0C	4		6	12	25n	44n	80n	25m		4	A	1	G04-81	MD2A
54	LCE503		RTL	4	6.0	0.0C	4		6	12	25n					3	8	1		MD2A
55	LCE703		RTL	4	6.0	0.0C	4		6	12	30n					1	6	1		MD2A
56	921HM		RTL	6			2		0.0	3.6	15n			40m	250m	0	7	2	G06-67	TO99
57	SN17921L		RTL	6			2		0	8						5	C	2	G06-134	CN13
58	LCE408/A		RTL	6	6.0	0.0C	4		6	12						4	A	4	G01-3s	MD2A
59	LCE408/O		RTL	6	6.0	0.0C	4		6	12						4	A	4	G01-3t	MD2A
60	LCE508		RTL	6	6.0	0.0C	4		6	12						3	8			MD2A
61	LCE708		RTL	6	6.0	0.0C	4		6	12						1	6			MD2A
62	MC54F08J		SCH	1	2.0	0.8	2		0	5.5	8n			0.3	5	C	4	G01-310	DL14df	
63	MC54F08N		SCH	1	2.0	0.8	2		0	5.5	8n			0.3	5	C	4	G01-310	DL14dg	
64	MC54F11J(A)		SCH	1	2.0	0.8	3		0	5.5	8n			0.3	5	C	3	G01-267	DL14df	
65	MC54F11N(A)		SCH	1	2.0	0.8	3		0	5.5	8n			0.3	5	C	3	G01-267	DL14dg	
66	MC74F08J(A)		SCH	1	2.0	0.8	2		0	5.2	6n			0.3	0	7	4	G01-266	DL14df	
67	MC74F08N(A)		SCH	1	2.0	0.8	2		0	5.2	6n			0.3	0	7	4	G01-266	DL14dg	
68	MC74F11J(A)		SCH	1	2.0	0.8	3		0	5.2	7n			0.3	0	7	3	G01-267	DL14df	
69	MC74F11N(A)		SCH	1	2.0	0.8	3		0	5.2	7n			0.3	0	7	3	G01-267	DL14dg	
70	MC54F32J(A)		SCH	2	2.0	0.8	2		0	5.5	8n			0.3	5	C	4	G02-198	DL14df	
71	MC54F32N(A)		SCH	2	2.0	0.8	2		0	5.5	8n			0.3	5	C	4	G02-198	DL14dg	
72	MC74F32J(A)		SCH	2	2.0	0.8	2		0	5.2	6n			0.3	0	7	4	G02-198	DL14df	
73	MC74F32N(A)		SCH	2	2.0	0.8	2		0	5.2	6n			0.3	0	7	4	G02-198	DL14dg	
74	MC54F02J(A)		SCH	3	2.0	0.8	2		0	5.5	7n			0.3	5	C	4	G03-327	DL14df	
75	MC54F02N(A)		SCH	3	2.0	0.8	2		0	5.5	7n			0.3	5	C	4	G03-327	DL14df	
76	MC74F02J(A)		SCH	3	2.0	0.8	2		0	5.2	6n			0.3	0	7	4	G03-327	DL14dg	
77	MC74F02N(A)		SCH	3	2.0	0.8	2		0	5.2	6n			0.3	0	7	4	G03-327	DL14dg	
78	MC54F00J(A)		SCH	4	2.0	0.8	2		0	5.5	7n			0.3	5	C	4	G04-538	DL14df	
79	MC54F00N(A)		SCH	4	2.0	0.8	2		0	5.5	7n			0.3	5	C	4	G04-538	DL14df	
80	MC54F10J(A)		SCH	4	2.0	0.8	3		0	5.5	7n			0.3	5	C	3	G04-535	DL14df	
81	MC54F10N(A)		SCH	4	2.0	0.8	3		0	5.5	7n			0.3	5	C	3	G04-535	DL14dg	
82	MC54F20J(A)		SCH	4	2.0	0.8	4		0	5.5	7n			0.3	5	C	2	G04-536	DL14df	
83	MC54F20N(A)		SCH	4	2.0	0.8	4		0											

5. GATES

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC*1
(4) LOGIC*2 (5) TYPE NO.

LINE No.	5 TYPE NO.	DATA SHT.	TECH	2 TYPE OF GATE	LOGIC LEVEL		FAN IN		POWER SUPPLY SPAN		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS	
					3 MIN. '1' (V)	4 MAX. '0' (V)	IN	OUT MAX.	NEG.	POS		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE
1	54S09FM		TTL	1	2.0*	50Δ	2	10	0.0	5.0	10nΔ						4	54S09W	FP52
2	54S15DM		TTL	1	2.0*	50Δ	3	12	0.0	5.0	9.0nΔ						5	74H15N	DL14bf
3	54S15FM		TTL	1	2.0*	50Δ	3	12	0.0	5.0	9.0nΔ						5	54H15W	FP52
4	74S08DC		TTL	1	2.0*	50Δ	2	20	0.0	5.0	7.0 Δ						0	74-08N	DL14ba
5	74S08PC		TTL	1	2.0*	50Δ	2	20	0.0	5.0	7.0 Δ						0	74-08N	DL14ce
6	54LS08DM		TTL	1	2.0*	70Δ	2	2.5	0.0	5.0	8.0n			44m%	300m	5	5	74-08N	TO116
7	54LS08FM		TTL	1	2.0*	70Δ	2	2.5	0.0	5.0	8.0n			44m%	300m	5	4	54S08W	TO86
8	54LS11DM		TTL	1	2.0*	70Δ	3	2.5	0.0	5.0	8.5n			33m%	300m	5	3	74-11N	TO116
9	54LS11FM		TTL	1	2.0*	70Δ	3	2.5	0.0	5.0	8.5n			33m%	300m	5	3	54S11	TO86
10	54LS15FM		TTL	1	2.0*	70Δ	3	2.5	0.0	5.0	13n			33m%	300m	5	3	54H15W	TO86
11	54LS21DM		TTL	1	2.0*	70Δ	4	2.5	0.0	5.0	10n			22m%	300m	5	2	74H21N	TO116
12	54LS21FM		TTL	1	2.0*	70Δ	4	2.5	0.0	5.0	10n			22m%	300m	5	2	54LS21W	TO86
13	JANM38510/31001BAA		TTL	1	2.0*	70Δ	3	10	0.0	5.5	30nΔ						5	54S11W	FP115
14	JANM38510/31001BAB		TTL	1	2.0*	70Δ	3	10	0.0	5.5	30nΔ						5	54S11W	FP115
15	JANM38510/31001BAC		TTL	1	2.0*	70Δ	3	10	0.0	5.5	30nΔ						5	54S11W	FP115
16	JANM38510/31001BCA		TTL	1	2.0*	70Δ	3	10	0.0	5.5	30nΔ						5	54S11W	FP115
17	JANM38510/31001BCB		TTL	1	2.0*	70Δ	3	10	0.0	5.5	30nΔ						5	74-11N	DL14bo
18	JANM38510/31001BCC		TTL	1	2.0*	70Δ	3	10	0.0	5.5	30nΔ						5	74-11N	DL14bo
19	JANM38510/31001BDA		TTL	1	2.0*	70Δ	3	10	0.0	5.5	30nΔ						5	74-11N	DL14bo
20	JANM38510/31001BDB		TTL	1	2.0*	70Δ	3	10	0.0	5.5	30nΔ						5	54S11W	FP116
21	JANM38510/31001BDC		TTL	1	2.0*	70Δ	3	10	0.0	5.5	30nΔ						5	54S11W	FP116
22	JANM38510/31001CAA		TTL	1	2.0*	70Δ	3	10	0.0	5.5	30nΔ						5	54S11W	FP116
23	JANM38510/31001CAB		TTL	1	2.0*	70Δ	3	10	0.0	5.5	30nΔ						5	54S11W	FP115
24	JANM38510/31001CAC		TTL	1	2.0*	70Δ	3	10	0.0	5.5	30nΔ						5	54S11W	FP115
25	JANM38510/31001CCA		TTL	1	2.0*	70Δ	3	10	0.0	5.5	30nΔ						5	54S11W	FP115
26	JANM38510/31001CCB		TTL	1	2.0*	70Δ	3	10	0.0	5.5	30nΔ						5	74-11N	DL14bo
27	JANM38510/31001CCC		TTL	1	2.0*	70Δ	3	10	0.0	5.5	30nΔ						5	74-11N	DL14bo
28	JANM38510/31001CDA		TTL	1	2.0*	70Δ	3	10	0.0	5.5	30nΔ						5	74-11N	DL14bo
29	JANM38510/31001CDB		TTL	1	2.0*	70Δ	3	10	0.0	5.5	30nΔ						5	54S11W	FP116
30	JANM38510/31001CDC		TTL	1	2.0*	70Δ	3	10	0.0	5.5	30nΔ						5	54S11W	FP116
31	JANM38510/31002BAA		TTL	1	2.0*	70Δ	3	10	0.0	5.5	30nΔ						5	54S11W	FP116
32	JANM38510/31002BAB		TTL	1	2.0*	70Δ	3	10	0.0	5.5	50nΔ						5	54H15W	FP115
33	JANM38510/31002BAC		TTL	1	2.0*	70Δ	3	10	0.0	5.5	50nΔ						5	54H15W	FP115
34	JANM38510/31002BCA		TTL	1	2.0*	70Δ	3	10	0.0	5.5	50nΔ						5	54H15W	FP115
35	JANM38510/31002BCB		TTL	1	2.0*	70Δ	3	10	0.0	5.5	50nΔ						5	74H15N	DL14bo
36	JANM38510/31002BCC		TTL	1	2.0*	70Δ	3	10	0.0	5.5	50nΔ						5	74H21N	DL14bo
37	JANM38510/31002BDA		TTL	1	2.0*	70Δ	3	10	0.0	5.5	50nΔ						5	74H15N	DL14bo
38	JANM38510/31002BDB		TTL	1	2.0*	70Δ	3	10	0.0	5.5	50nΔ						5	54H15W	FP116
39	JANM38510/31002BDC		TTL	1	2.0*	70Δ	3	10	0.0	5.5	50nΔ						5	54H15W	FP116
40	JANM38510/31002CAA		TTL	1	2.0*	70Δ	3	10	0.0	5.5	50nΔ						5	54H15W	FP116
41	JANM38510/31002CAB		TTL	1	2.0*	70Δ	3	10	0.0	5.5	50nΔ						5	54H15W	FP115
42	JANM38510/31002CAC		TTL	1	2.0*	70Δ	3	10	0.0	5.5	50nΔ						5	54H15W	FP115
43	JANM38510/31002CCA		TTL	1	2.0*	70Δ	3	10	0.0	5.5	50nΔ						5	54H15W	FP115
44	JANM38510/31002CCB		TTL	1	2.0*	70Δ	3	10	0.0	5.5	50nΔ						5	74H15N	DL14bo
45	JANM38510/31002CCC		TTL	1	2.0*	70Δ	3	10	0.0	5.5	50nΔ						5	74H15N	DL14bo
46	JANM38510/31002CDA		TTL	1	2.0*	70Δ	3	10	0.0	5.5	50nΔ						5	74H15N	DL14bo
47	JANM38510/31002CDB		TTL	1	2.0*	70Δ	3	10	0.0	5.5	50nΔ						5	54H15W	FP116
48	JANM38510/31002CDC		TTL	1	2.0*	70Δ	3	10	0.0	5.5	50nΔ						5	54H15W	FP116
49	JANM38510/31003BAA		TTL	1	2.0*	70Δ	4	10	0.0	5.5	30nΔ						5	54H15W	FP116
50	JANM38510/31003BAB		TTL	1	2.0*	70Δ	4	10	0.0	5.5	30nΔ						2	54LS21W	FP115
51	JANM38510/31003BAC		TTL	1	2.0*	70Δ	4	10	0.0	5.5	30nΔ						2	54LS21W	FP115
52	JANM38510/31003BCA		TTL	1	2.0*	70Δ	4	10	0.0	5.5	30nΔ						2	54LS21W	FP115
53	JANM38510/31003BCC		TTL	1	2.0*	70Δ	4	10	0.0	5.5	30nΔ						5	74H21N	DL14bo
54	JANM38510/31003BDA		TTL	1	2.0*	70Δ	4	10	0.0	5.5	30nΔ						2	74H21N	DL14bo
55	JANM38510/31003BDB		TTL	1	2.0*	70Δ	4	10	0.0	5.5	30nΔ						2	54LS21W	FP116
56	JANM38510/31003BDC		TTL	1	2.0*	70Δ	4	10	0.0	5.5	30nΔ						2	54LS21W	FP116
57	JANM38510/31003CAA		TTL	1	2.0*	70Δ	4	10	0.0	5.5	30nΔ						2	54LS21W	FP116
58	JANM38510/31003CAB		TTL	1	2.0*	70Δ	4	10	0.0	5.5	30nΔ						2	54LS21W	FP115
59	JANM38510/31003CAC		TTL	1	2.0*	70Δ	4	10	0.0	5.5	30nΔ						2	54LS21W	FP115
60	JANM38510/31003CCA		TTL	1	2.0*	70Δ	4	10	0.0	5.5	30nΔ						2	54LS21W	FP115
61	JANM38510/31003CCC		TTL	1	2.0*	70Δ	4	10	0.0	5.5	30nΔ						2	74H21N	DL14bo
			TTL	1	2.0*	70Δ	4	10	0.0	5.5	30nΔ						2	74H21N	DL14bo

5. GATES

IN ORDER OF (1) TECHNOLOGY (2) TYPE (3) LOGIC (4) LOGIC TYPE NO.

LINE NO.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN IN		POWER SUPPLY		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS		
					MIN. (V)	MAX. (V)	IN	OUT MAX.	NEG. (V)	POS (V)		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE	
1	JANM38510/31003CDA		TTL	1	2.0*	.70Δ	4	10	0.0	5.5	30nΔ			24m	5	C	2	54LS21W	FP116	
2	JANM38510/31003CDB		TTL	1	2.0*	.70Δ	4	10	0.0	5.5	30nΔ			24m	5	C	2	54LS21W	FP116	
3	JANM38510/31003CDC		TTL	1	2.0*	.70Δ	4	10	0.0	5.5	30nΔ			22m	5	C	2	54LS21W	FP116	
4	JANM38510/31004BAA		TTL	1	2.0*	.70Δ	2	10	0.0	5.5	30nΔ			48m	5	C	4	54S08W	FP115	
5	JANM38510/31004BAB		TTL	1	2.0*	.70Δ	2	10	0.0	5.5	30nΔ			48m	5	C	4	54S08W	FP115	
6	JANM38510/31004BAC		TTL	1	2.0*	.70Δ	2	10	0.0	5.5	30nΔ			48m	5	C	4	54S08W	FP115	
7	JANM38510/31004BCA		TTL	1	2.0*	.70Δ	2	10	0.0	5.5	30nΔ			48m	5	C	4	54S08W	FP115	
8	JANM38510/31004BCC		TTL	1	2.0*	.70Δ	2	10	0.0	5.5	30nΔ			44m	5	C	4	74-08N	DL14bo	
9	JANM38510/31004BDA		TTL	1	2.0*	.70Δ	2	10	0.0	5.5	30nΔ			48m	5	C	4	54S08W	FP116	
10	JANM38510/31004BDB		TTL	1	2.0*	.70Δ	2	10	0.0	5.5	30nΔ			44m	5	C	4	74-08N	DL14bo	
11	JANM38510/31004BDC		TTL	1	2.0*	.70Δ	2	10	0.0	5.5	30nΔ			48m	5	C	4	54S08W	FP116	
12	JANM38510/31004CAA		TTL	1	2.0*	.70Δ	2	10	0.0	5.5	30nΔ			44m	5	C	4	54S08W	FP116	
13	JANM38510/31004CAB		TTL	1	2.0*	.70Δ	2	10	0.0	5.5	30nΔ			48m	5	C	4	54S08W	FP115	
14	JANM38510/31004CAC		TTL	1	2.0*	.70Δ	2	10	0.0	5.5	30nΔ			48m	5	C	4	54S08W	FP115	
15	JANM38510/31004CCA		TTL	1	2.0*	.70Δ	2	10	0.0	5.5	30nΔ			48m	5	C	4	54S08W	FP115	
16	JANM38510/31004CCC		TTL	1	2.0*	.70Δ	2	10	0.0	5.5	30nΔ			48m	5	C	4	74-08N	DL14bo	
17	JANM38510/31004CDA		TTL	1	2.0*	.70Δ	2	10	0.0	5.5	30nΔ			44m	5	C	4	74-08N	DL14bo	
18	JANM38510/31004CDB		TTL	1	2.0*	.70Δ	2	10	0.0	5.5	30nΔ			48m	5	C	4	54S08W	FP116	
19	JANM38510/31004CDC		TTL	1	2.0*	.70Δ	2	10	0.0	5.5	30nΔ			48m	5	C	4	54S08W	FP116	
20	S54LS08F		TTL	1	2.0*	.70Δ	2	10	0.0	5.5	30nΔ			44m	5	C	4	54S08W	FP116	
21	S54LS08W		TTL	1	2.0*	.70Δ	2	10	0.0	5.0	20nΔ			44m	5	C	4	74-08N	DL14bh	
22	S54LS09F		TTL	1	2.0*	.70Δ	2	10	0.0	5.0	20nΔ			44m	5	C	4	54S08W	FP39e	
23	S54LS09W		TTL	1	2.0*	.70Δ	2	10	0.0	5.0	35nΔ			44m	5	C	4	74-09N	DL14bh	
24	S54LS11F		TTL	1	2.0*	.70Δ	3	11	0.0	5.0	35nΔ			33m	5	C	3	54S09W	FP39e	
25	S54LS11W		TTL	1	2.0*	.70Δ	3	11	0.0	5.0	20nΔ			33m	5	C	3	74-11N	DL14bh	
26	S54LS15F		TTL	1	2.0*	.70Δ	3	11	0.0	5.0	35nΔ			33m	5	C	3	54S11W	FP39e	
27	S54LS15W		TTL	1	2.0*	.70Δ	3	11	0.0	5.0	35nΔ			33m	5	C	3	74H15N	DL14bh	
28	S54LS21F		TTL	1	2.0*	.70Δ	4	11	0.0	5.0	20nΔ			22m	5	C	2	54H15W	FP39e	
29	S54LS21W		TTL	1	2.0*	.70Δ	4	11	0.0	5.0	20nΔ			22m	5	C	2	74H21N	DL14bh	
30	SN54LS08J		TTL	1	2.0*	.70Δ	2	11	0.0	5.0	20nΔ			44m	1.0 *	5	C	4	54LS21W	FP39e
31	SN54LS08W		TTL	1	2.0*	.70Δ	2	11	0.0	5.0	20nΔ			44m	1.0 *	5	C	4	74-08	DL14af
32	SN54LS09J		TTL	1	2.0*	.70Δ	2	11	0.0	5.0	35nΔ			44m	1.0 *	5	C	4	54S08W	FP97a
33	SN54LS09W		TTL	1	2.0*	.70Δ	2	11	0.0	5.0	35nΔ			44m	1.0 *	5	C	4	74-09N	DL14af
34	SN54LS11J		TTL	1	2.0*	.70Δ	3	11	0.0	5.0	20nΔ			33m	1.0 *	5	C	3	54S09W	FP97a
35	SN54LS11W		TTL	1	2.0*	.70Δ	3	11	0.0	5.0	20nΔ			33m	1.0 *	5	C	3	74-11N	DL14af
36	SN54LS15J		TTL	1	2.0*	.70Δ	3	11	0.0	5.0	35nΔ			33m	1.0 *	5	C	3	54S11W	FP97a
37	SN54LS15W		TTL	1	2.0*	.70Δ	3	11	0.0	5.0	35nΔ			33m	1.0 *	5	C	3	74H15N	DL14af
38	SN54LS21J		TTL	1	2.0*	.70Δ	4	11	0.0	5.0	20nΔ			22m	1.0 *	5	C	2	54H15W	FP97a
39	SN54LS21W		TTL	1	2.0*	.70Δ	4	11	0.0	5.0	20nΔ			22m	1.0 *	5	C	2	74H21N	DL14af
40 #	T54LS08D2		TTL	1	2.0*	.70Δ	2	11d	0.0	5.0	8.0n			44m%	300m	5	C	4	54LS21W	FP97a
41 #	T54LS09D2		TTL	1	2.0*	.70Δ	2	11d	0.0	5.0	13n			44m%	300m	5	C	4	74-08N	DL14av
42 #	T54LS11D2		TTL	1	2.0*	.70*	3	2.5	0.0	5.0	8.5n			33m%	300m	5	C	3	74-09N	DL14av
43 #	T54LS15D2		TTL	1	2.0*	.70Δ	3	2.5	0.0	5.0	13n			33m%	300m	5	C	3	74-11N	DL14av
44 #	T54LS21D2		TTL	1	2.0*	.70Δ	3	2.5	0.0	5.0	10n			33m%	300m	5	C	2	74H15N	DL14av
45	54F08DM		TTL	1	2.0*	.80Δ	2	12	0.0	5.0	5.5n			65m		5	C	4	54LS21W	TO116
46	54F08FM		TTL	1	2.0*	.80Δ	2	12	0.0	5.0	5.5n			65m		5	C	4	74-08N	FP21h
47	54F11DM		TTL	1	2.0*	.80Δ	3	12	0.0	5.0	5.5n			49m		5	C	3	54S08W	FP21h
48	54F11FM		TTL	1	2.0*	.80Δ	3	12	0.0	5.0	5.5n			49m		5	C	3	74-11N	TO116
49	54H11DM		TTL	1	2.0*	.80Δ	3	10	0.0	5.0	12nΔ			240m	1.0	5	C	3	54S11W	FP21h
50	54H11FM		TTL	1	2.0*	.80Δ	3	10	0.0	5.0	12nΔ			240m	1.0	5	C	3	74-11N	FP21h
51	54H21DM		TTL	1	2.0*	.80Δ	4	10	0.0	5.0	12nΔ			160m	1.0	5	C	2	54H11W	FP21h
52	54H21FM		TTL	1	2.0*	.80Δ	4	10	0.0	5.0	12nΔ			160m	1.0	5	C	2	74H21N	TO116
53	54LS09FM		TTL	1	2.0*	.80Δ	2	2.5	0.0	5.0	13n			44m%	300m	5	C	4	54H21W	FP21h
54	54S11DM		TTL	1	2.0*	.80Δ	3	10	0.0	5.0	5.0n			210m	1.0	5	C	3	74-09N	TO86
55	54S11FM		TTL	1	2.0*	.80Δ	3	10	0.0	5.0	5.0n			210m	1.0	5	C	3	74-11N	TO116
56	74F08DC		TTL	1	2.0*	.80Δ	2	12	0.0	5.0	5.5n			65m		0	7	4	54S11W	FP21h
57	74F08PC		TTL	1	2.0*	.80Δ	2	12	0.0	5.0	5.5n			65m		0	7	4	74-08N	TO116
58	74F11DC		TTL	1	2.0*	.80Δ	3	12	0.0	5.0	5.5n			49m		0	7	4	74-08N	DL16cj
59	74F11PC		TTL	1	2.0*	.80Δ	3	12	0.0	5.0	5.5n			49m		0	7	3	74-11N	TO116
60	74H11DC		TTL	1	2.0*	.80Δ	3	10	0.0	5.0	12nΔ			120m†	1.0	0	7	3	74-11N	DL14ce
61	74H11PC		TTL	1	2.0*	.80Δ	3	10	0.0	5.0	12nΔ			120m†	1.0	0	7	3	74-11N	TO116
62	74H21DC		TTL	1	2.0*	.80Δ	4	10	0.0	5.0	12nΔ			160m	1.0	0	7	2	74H21N	DL14ce
63	74H21PC		TTL	1	2.0*	.80Δ	4	10	0.0	5.0	12nΔ			160m	1.0	0	7	2	74H21N	TO116
64	74LS08DC		TTL	1	2.0*	.80Δ	2	5	0.0	5.0	8.0n			44m%	300m	0	7	4	74-08N	DL14ce
65	74LS08PC		TTL	1	2.0*	.80Δ	2	5	0.0	5.0	8.0n			44m%	300m	0	7	4	74-08N	TO116
66	74LS09PC		TTL	1	2.0*	.80Δ	2	5	0.0	5.0	13n			44m%	300m	0	7	4	74-08N	DL14ce
67	74LS11DC		TTL	1	2.0*	.80Δ	3	5	0.0	5.0	8.5n			33m%	300m	0	7	3	74H21N	TO116
68	74LS11PC		TTL	1	2.0*	.80Δ	3	5	0.0	5.0	8.5n			33m%	300m	0	7	3	74-09N	FP21h
69	74LS15PC		TTL	1	2.0*	.80Δ	3	5	0.0	5.0	13n			33m%	300m	0	7	3	74-11N	TO116
70	74LS21DC		TTL	1	2.0*	.80Δ	4	5	0.0	5.0	10n			22m%	300m	0	7	2	74H15N	FP21h
71	74LS21PC		TTL	1	2.0*	.80Δ	4	5	0.0	5.0	10n			22m%	300m	0	7	2	74H21N	TO116
72	74S11DC		TTL	1	2.0*	.80Δ	3	20	0.0	5.0	5.0n			210m	1.0	0	7	3	74-11N	TO116
73	5408DM		TTL	1	2.0*	.80Δ	2	10	0.0	5.0	27nΔ			135m		5	C	4	74-08N	FP21h
74	5408FM		TTL	1	2.0*	.80Δ	2	10	0.0	5.0	27nΔ			165m		5	C	4	54S08W	TO116
75	5409DM		TTL	1	2.0*	.80Δ	2	10	0.0	5.0	32nΔ			165m		5	C	4	74-08N	DL14ce
76	7408DC		TTL	1	2.0*	.80Δ	2	10	0.0	5.0	27nΔ			165m		0	7	4	74-08N	TO116
77	7408PC		TTL	1	2.0*	.80Δ	2	10	0.0	5.0	27nΔ			165m		0	7	4	74-08N	DL14ce
78	7409DC		TTL	1	2.0*	.80Δ	2	10	0.0	5.0	32nΔ			165m		0	7</			

5. GATES

IN ORDER OF:(1)TECHNOLOGY(2)TYPE(3)LOGIC*(4)LOGIC*(5)TYPE NO.

LINE NO.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN IN		POWER SUPPLY SPAN		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS	
					3 MIN. '1' (V)	4 MAX. '0' (V)	IN	OUT MAX.	NEG. (V)	POS (V)		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE
1	DM5411J		TTL	1	2.0*	.80Δ	3	10	0.0	5.0	27nΔ			330m	400m	5 C	3	74-11N	DL14ax
2	DM7408N		TTL	1	2.0*	.80Δ	2	10	0.0	5.0	32nΔ			660m	400m	0 7	4	74-08N	DL14bt
3	DM7409N		TTL	1	2.0*	.80Δ	2	10	0.0	5.0	32nΔ			660m	400m	0 7	4	74-09N	DL14bt
4	DM7411N		TTL	1	2.0*	.80Δ	3	10	0.0	5.0	27nΔ			330m	400m	0 7	3	74-11N	DL14bt
5	DM7819J		TTL	1	2.0*	.80Δ	2		0.0	5.0	16n			100m†		5 C	4	74-08N	DL14az
6	DM7819N		TTL	1	2.0*	.80Δ	2		0.0	5.0	16n			100m†		5 C	4	74-08N	DL14bt
7	DM7819W		TTL	1	2.0*	.80Δ	2		0.0	5.0	16n			100m†		5 C	4	54S08W	FP97
8	DM8819J		TTL	1	2.0*	.80Δ	2		0.0	5.0	16n			100m†		0 7	4	74-08N	DL14az
9	DM8819N		TTL	1	2.0*	.80Δ	2		0.0	5.0	16n			100m†		0 7	4	74-08N	DL14bt
10	DM8819W		TTL	1	2.0*	.80Δ	2		0.0	5.0	16n			100m†		0 7	4	54S08W	FP97
11	DS7819J		TTL	1	2.0*	.80Δ	2		0.0	5.0	32n			165m		5 C	4	74-09N	DL14an
12	DS7819W		TTL	1	2.0*	.80Δ	2		0.0	5.0	32n			165m		5 C	4	54S09W	FP97c
13	DS8819J		TTL	1	2.0*	.80Δ	2		0.0	5.0	32n			165m		0 7	4	74-09N	DL14an
14	DS8819N		TTL	1	2.0*	.80Δ	2		0.0	5.0	32n			165m		0 7	4	74-09N	DL14bt
15#	HD74LS08		TTL	1	2.0*	.80Δ	8		0.0	5.0	18nΔ			400m	300m	2 7	4		DL14cz
16#	HD74LS08P		TTL	1	2.0*	.80Δ	8		0.0	5.0	18nΔ			400m	300m	2 7	4		DL14cz
17#	HD74LS09		TTL	1	2.0*	.80Δ	8		0.0	5.0	35nΔ			400m	300m	2 7	4		DL14cz
18#	HD74LS09P		TTL	1	2.0*	.80Δ	8		0.0	5.0	35nΔ			400m	300m	2 7	4		DL14cz
19#	HD74LS11		TTL	1	2.0*	.80Δ	9		0.0	5.0	18nΔ			400m	300m	2 7	3		DL14cz
20#	HD74LS11P		TTL	1	2.0*	.80Δ	9		0.0	5.0	18nΔ			400m	300m	2 7	3		DL14cz
21#	HD74LS15		TTL	1	2.0*	.80Δ	9		0.0	5.0	35nΔ			400	300m	2 7	3		DL14cz
22#	HD74LS15P		TTL	1	2.0*	.80Δ	9		0.0	5.0	35nΔ			400	300m	2 7	3		DL14cz
23#	HD74LS21		TTL	1	2.0*	.80Δ	8		0.0	5.0	18nΔ			400m	300m	2 7	2		DL14cz
24#	HD74LS21P		TTL	1	2.0*	.80Δ	8		0.0	5.0	18nΔ			400m	300m	2 7	2		DL14cz
25▼#	M74ALS08P		TTL	1	2.0*	0.8			0.0	5.0	14n			22m		2 7	4	74-08N	DL14cf
26▼#	M74ALS09P		TTL	1	2.0*	0.8			0.0	5.0	54n			22m		2 7	4	74-09N	DL14cf
27▼#	M74ALS11P		TTL	1	2.0*	0.8			0.0	5.0	20n			17m		2 7	3	74-11N	DL14cf
28▼#	M74ALS15P		TTL	1	2.0*	0.8			0.0	5.0	11n			17m		2 7	3	74-15N	DL14cf
29▼#	M74ALS21P		TTL	1	2.0*	0.8			0.0	5.0	26n			11m		2 7	2	74-21N	DL14cf
30▼#	M74ALS1008P		TTL	1	2.0*	0.8			0.0	5.0	9n			44m		2 7	4	74-08N	DL14cf
31#	M74LS08P		TTL	1	2.0*	.80Δ	2	20	0.0	5.0	13nΔ			17m†	400m*	2 7	4	74-08N	DL14cf
32#	M74LS09P		TTL	1	2.0*	.80Δ	2	20	0.0	5.0	13nΔ			20m†	400m*	2 7	4	74-09N	DL14cf
33#	M74LS11P		TTL	1	2.0*	.80Δ	3	20	0.0	5.0	13nΔ			13m†	400m*	2 7	3	74-11N	DL14cf
34#	M74LS15P		TTL	1	2.0*	.80Δ	3	20	0.0	5.0	20nΔ			13m†	400m*	2 7	3	74H15N	DL14cf
35#	M74LS21P		TTL	1	2.0*	.80Δ	4	20	0.0	5.0	15nΔ			8.5m†	400m*	2 7	2		DL14cf
36	JANM38510/01601BAA		TTL	1	2.0*	.80Δ	2	10	0.0	5.5	40nΔ			200m		5 C	4	54S08W	FP115
37	JANM38510/01601BAB		TTL	1	2.0*	.80Δ	2	10	0.0	5.5	40nΔ			200m		5 C	4	54S08W	FP115
38	JANM38510/01601BCA		TTL	1	2.0*	.80Δ	2	10	0.0	5.5	40nΔ			200m		5 C	4	74-08N	DL14bo
39	JANM38510/01601BCB		TTL	1	2.0*	.80Δ	2	10	0.0	5.5	40nΔ			200m		5 C	4	74-08N	DL14bo
40	JANM38510/01601BDA		TTL	1	2.0*	.80Δ	2	10	0.0	5.5	40nΔ			200m		5 C	4	54S08W	FP116
41	JANM38510/01601BDB		TTL	1	2.0*	.80Δ	2	10	0.0	5.5	40nΔ			200m		5 C	4	54S08W	FP116
42	JANM38510/01601CAA		TTL	1	2.0*	.80Δ	2	10	0.0	5.5	40nΔ			200m		5 C	4	54S08W	FP115
43	JANM38510/01601CAB		TTL	1	2.0*	.80Δ	2	10	0.0	5.5	40nΔ			200m		5 C	4	54S08W	FP115
44	JANM38510/01601CCA		TTL	1	2.0*	.80Δ	2	10	0.0	5.5	40nΔ			200m		5 C	4	74-08N	DL14bo
45	JANM38510/01601CCB		TTL	1	2.0*	.80Δ	2	10	0.0	5.5	40nΔ			200m		5 C	4	74-08N	DL14bo
46	JANM38510/01601CDA		TTL	1	2.0*	.80Δ	2	10	0.0	5.5	40nΔ			200m		5 C	4	54S08W	FP116
47	JANM38510/01601CDB		TTL	1	2.0*	.80Δ	2	10	0.0	5.5	40nΔ			200m		5 C	4	54S08W	FP116
48	JANM38510/01602BAA		TTL	1	2.0*	.80Δ	2	10	0.0	5.5	49nΔ			200m		5 C	4	54S09W	FP115
49	JANM38510/01602BAB		TTL	1	2.0*	.80Δ	2	10	0.0	5.5	49nΔ			200m		5 C	4	54S09W	FP115
50	JANM38510/01602BCA		TTL	1	2.0*	.80Δ	2	10	0.0	5.5	49nΔ			200m		5 C	4	74-09N	DL14bo
51	JANM38510/01602BCB		TTL	1	2.0*	.80Δ	2	10	0.0	5.5	49nΔ			200m		5 C	4	74-09N	DL14bo
52	JANM38510/01602BDA		TTL	1	2.0*	.80Δ	2	10	0.0	5.5	40nΔ			200m		5 C	4	54S09W	FP116
53	JANM38510/01602BDB		TTL	1	2.0*	.80Δ	2	10	0.0	5.5	49nΔ			200m		5 C	4	54S09W	FP116
54	JANM38510/01602CAA		TTL	1	2.0*	.80Δ	2	10	0.0	5.5	49nΔ			200m		5 C	4	54S09W	FP115
55	JANM38510/01602CAB		TTL	1	2.0*	.80Δ	2	10	0.0	5.5	49nΔ			200m		5 C	4	54S09W	FP115
56	JANM38510/01602CCA		TTL	1	2.0*	.80Δ	2	10	0.0	5.5	49nΔ			200m		5 C	4	74-09N	DL14bo
57	JANM38510/01602CCB		TTL	1	2.0*	.80Δ	2	10	0.0	5.5	49nΔ			200m		5 C	4	74-09N	DL14bo
58	JANM38510/01602CDA		TTL	1	2.0*	.80Δ	2	10	0.0	5.5	49nΔ			200m		5 C	4	54S09W	FP116
59	JANM38510/01602CDB		TTL	1	2.0*	.80Δ	2	10	0.0	5.5	49nΔ			200m		5 C	4	54S09W	FP116
60	JANM38510/08001BAB		TTL	1	2.0*	.80Δ	3	10	0.0	5.5	14nΔ			231m		5 C	3	54S11W	FP115
61	JANM38510/08001BAC		TTL	1	2.0*	.80Δ	3	10	0.0	5.5	14nΔ			231m		5 C	3	54S11W	FP115
62	JANM38510/08001BCA		TTL	1	2.0*	.80Δ	3	10	0.0	5.5	14nΔ			231m		5 C	3	74-11N	DL14bo
63	JANM38510/08001BCB		TTL	1	2.0*	.80Δ	3	10	0.0	5.5	14nΔ			231m		5 C	3	74-11N	DL14bo
64	JANM38510/08001BDA		TTL	1	2.0*	.80Δ	3	10	0.0	5.5	14nΔ			231m		5 C	3	54S11W	FP116
65	JANM38510/08001BDB		TTL	1	2.0*	.80Δ	3	10	0.0	5.5	14nΔ			231m		5 C	3	54S11W	FP116
66	JANM38510/08001CAB		TTL	1	2.0*	.80Δ	3	10	0.0	5.5	14nΔ			231m		5 C	3	54S11W	FP115
67	JANM38510/08001CAC		TTL	1	2.0*	.80Δ	3	10	0.0	5.5	14nΔ			231m		5 C	3	54S11W	FP115
68	JANM38510/08001CCA		TTL	1	2.0*	.80Δ	3	10	0.0	5.5	14nΔ			231m		5 C	3	74-11N	DL14bo
69	JANM38510/08001CCB		TTL	1	2.0*	.80Δ	3	10	0.0	5.5	14nΔ			231m		5 C	3	74-11N	DL14bo
70	JANM38510/08001CDA		TTL	1	2.0*	.80Δ	3	10	0.0	5.5	14nΔ			231m		5 C	3	54S11W	FP116
71	JANM38510/08001CDB		TTL	1	2.0*	.80Δ	3	10	0.0	5.5	14nΔ			231m		5 C	3	54S11W	FP116
72	JANM38510/08002BCA		TTL	1	2.0*Ø	.80Δ	3	10	0.0	5.5	16nΔ			231m		5 C	3	74H15N	DL14bo

5. GATES

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC* (4) LOGIC* (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN IN		POWER SUPPLY SPAN		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS		
					3 MIN. '1' (V)	4 MAX. '0' (V)	IN	OUT MAX.	NEG. (V)	POS. (V)		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE	
1	JANM38510/08002BCB		TTL	1		2.0*0	.80Δ	3	10	0.0	5.5	16nΔ		231m		5	C	3	74H15N	DL14bo
2	JANM38510/08002BDA		TTL	1		2.0*0	.80Δ	3	10	0.0	5.5	16nΔ		231m		5	C	3	54H15W	FP116
3	JANM38510/08002BDB		TTL	1		2.0*0	.80Δ	3	10	0.0	5.5	16nΔ		231m		5	C	3	54H15W	FP116
4	JANM38510/08002CCA		TTL	1		2.0*0	.80Δ	3	10	0.0	5.5	16nΔ		231m		5	C	3	74H15N	DL14bo
5	JANM38510/08002CCB		TTL	1		2.0*0	.80Δ	3	10	0.0	5.5	16nΔ		231m		5	C	3	74H15N	DL14bo
6	JANM38510/08002CDA		TTL	1		2.0*0	.80Δ	3	10	0.0	5.5	16nΔ		231m		5	C	3	54H15W	FP116
7	JANM38510/08002CDB		TTL	1		2.0*0	.80Δ	3	10	0.0	5.5	16nΔ		231m		5	C	3	54H15W	FP116
8	JANM38510/08003BAB		TTL	1		2.0*	.80Δ	2	10	0.0	5.5	14nΔ		314m		5	C	4	54S08W	FP115
9	JANM38510/08003BAC		TTL	1		2.0*	.80Δ	2	10	0.0	5.5	14nΔ		314m		5	C	4	54S08W	FP115
10	JANM38510/08003BCA		TTL	1		2.0*	.80Δ	2	10	0.0	5.5	14nΔ		314m		5	C	4	74-08N	DL14bo
11	JANM38510/08003BCB		TTL	1		2.0*	.80Δ	2	10	0.0	5.5	14nΔ		314m		5	C	4	74-08N	DL14bo
12	JANM38510/08003BDA		TTL	1		2.0*	.80Δ	2	10	0.0	5.5	14nΔ		314m		5	C	4	54S08W	FP116
13	JANM38510/08003BDB		TTL	1		2.0*	.80Δ	2	10	0.0	5.5	14nΔ		314m		5	C	4	54S08W	FP116
14	JANM38510/08003CAB		TTL	1		2.0*	.80Δ	2	10	0.0	5.5	14nΔ		314m		5	C	4	54S08W	FP115
15	JANM38510/08003CAC		TTL	1		2.0*	.80Δ	2	10	0.0	5.5	14nΔ		314m		5	C	4	54S08W	FP115
16	JANM38510/08003CCA		TTL	1		2.0*	.80Δ	2	10	0.0	5.5	14nΔ		314m		5	C	4	74-08N	DL14bo
17	JANM38510/08003CCB		TTL	1		2.0*	.80Δ	2	10	0.0	5.5	14nΔ		314m		5	C	4	74-08N	DL14bo
18	JANM38510/08003CDA		TTL	1		2.0*	.80Δ	2	10	0.0	5.5	14nΔ		314m		5	C	4	54S08W	FP116
19	JANM38510/08003CDB		TTL	1		2.0*	.80Δ	2	10	0.0	5.5	14nΔ		314m		5	C	4	54S08W	FP116
20	JANM38510/15501BCA		TTL	1		2.0*	.80Δ	2	10	0.0	5.5	16nΔ		352m	400m*	5	C	4	74-08N	DL14bo
21	JANM38510/15501BCB		TTL	1		2.0*	.80Δ	2	10	0.0	5.5	16nΔ		352m	400m*	5	C	4	74-08N	DL14bo
22	JANM38510/15501CCA		TTL	1		2.0*	.80Δ	2	10	0.0	5.5	16nΔ		352m	400m*	5	C	4	74-08N	DL14bo
23	JANM38510/15501CCB		TTL	1		2.0*	.80Δ	2	10	0.0	5.5	16nΔ		352m	400m*	5	C	4	74-08N	DL14bo
24	JANM38510/15502BCA		TTL	1		2.0*	.80Δ	2	10	0.0	5.5	16nΔ		352m	400m*	5	C	4	74-08N	DL14bo
25	JANM38510/15502BCB		TTL	1		2.0*	.80Δ	3	10	0.0	5.5	16nΔ		284m	400m*	5	C	3	74-11N	DL14bo
26	JANM38510/15502CCA		TTL	1		2.0*	.80Δ	3	10	0.0	5.5	16nΔ		284m	400m*	5	C	3	74-11N	DL14bo
27	JANM38510/15502CCB		TTL	1		2.0*	.80Δ	3	10	0.0	5.5	16nΔ		284m	400m*	5	C	3	74-11N	DL14bo
28	JANM38510/15503BCA		TTL	1		2.0*	.80Δ	3	10	0.0	5.5	16nΔ		284m	400m*	5	C	3	74-11N	DL14bo
29	JANM38510/15503BCB		TTL	1		2.0*	.80Δ	4	10	0.0	5.5	16nΔ		176m	400m*	5	C	2	74H21N	DL14bo
30	JANM38510/15503CCA		TTL	1		2.0*	.80Δ	4	10	0.0	5.5	16nΔ		176m	400m*	5	C	2	74H21N	DL14bo
31	JANM38510/15503CCB		TTL	1		2.0*	.80Δ	4	10	0.0	5.5	16nΔ		176m	400m*	5	C	2	74H21N	DL14bo
32	JANM38510/15504BAA		TTL	1		2.0*	.80Δ	4	10	0.0	5.5	16nΔ		176m	400m*	5	C	2	74H21N	DL14bo
33	JANM38510/15504BAB		TTL	1		2.0*	.80Δ	2	10b	0.0	5.5	16nΔ		352m	400m*	5	C	4	54S08W	FP115
34	JANM38510/15504CAB		TTL	1		2.0*	.80Δ	2	10b	0.0	5.5	16nΔ		352m	400m*	5	C	4	54S08W	FP115
35	JANM38510/15504CAB		TTL	1		2.0*	.80Δ	2	10b	0.0	5.5	16nΔ		352m	400m*	5	C	4	54S08W	FP115
36#	MB74LS08		TTL	1		2.0*	.80Δ	2	10b	0.0	5.5	16nΔ		352m	400m*	5	C	4	54S08W	FP115
37#	MB74LS08M		TTL	1		2.0*	.80Δ	2	20	0.0	5.0	20nΔ		44m	1.0 *	2	7	4	74-08N	DL14ai
38#	MB74LS09		TTL	1		2.0*	.80Δ	2	20	0.0	5.0	20nΔ		44m	1.0 *	2	7	4	74-08N	DL14bn
39#	MB74LS09M		TTL	1		2.0*0	.80Δ	2	20	0.0	5.0	35nΔ		44m	1.0 *	2	7	4	74-09N	DL14ai
40#	MB74LS11		TTL	1		2.0*0	.80Δ	3	20	0.0	5.0	20nΔ		33m	1.0 *	2	7	3	74-11N	DL14ai
41#	MB74LS11M		TTL	1		2.0*	.80Δ	3	20	0.0	5.0	20nΔ		33m	1.0 *	2	7	3	74-11N	DL14bn
42#	MB74LS15		TTL	1		2.0*0	.80Δ	3	20	0.0	5.0	35nΔ		33m	1.0 *	2	7	3	74H15N	DL14ai
43#	MB74LS15M		TTL	1		2.0*0	.80Δ	3	20	0.0	5.0	35nΔ		33m	1.0 *	2	7	3	74H15N	DL14bn
44#	MB74LS21		TTL	1		2.0*	.80Δ	4	20	0.0	5.0	20nΔ		22m	1.0 *	2	7	2	54LS21W	DL14ai
45#	MB74LS21M		TTL	1		2.0*	.80Δ	4	20	0.0	5.0	20nΔ		22m	1.0 *	2	7	2	74H21N	DL14bn
46#	MB614		TTL	1		2.0*	.80Δ	4	10	0.0	5.0	11n		66m†		0	7	2	74H21N	DL14aq
47#	N8T95F		TTL	1		2.0	0.8	6		0.0	5.0	8.0n				0	7	6	G01-313	DL16aw
48#	N8T95N		TTL	1		2.0	0.8	6		0.0	5.0	8.0n				0	7	6	G01-313	DL16e
49#	N8T97F		TTL	1		2.0	0.8	6		0.0	5.0	8.0n				0	7	6	G01-314	DL16aw
50#	N8T97N		TTL	1		2.0	0.8	6		0.0	5.0	8.0n				0	7	6	G01-314	DL16e
51#	N74F08N		TTL	1		2.0	0.8	2		-0.5	7.0	5.6nΔ				0	7	4	74-08	DL14n
52#	N74F11F		TTL	1		2.0	0.8	3		-0.5	7.0	5.6nΔ				0	7	4	74-11	DL14o
53#	N74F11N		TTL	1		2.0	0.8	3		-0.5	7.0	5.6nΔ				0	7	4	74-11	DL14n
54	N74H08F		TTL	1		2.0*	.80Δ	2	10	0.0	5.0	12nΔ		320m		0	7	4	74-08N	DL14bh
55	N74H08N		TTL	1		2.0*	.80Δ	2	10	0.0	5.0	12nΔ		320m		0	7	4	74-08N	DL14br
56	N74H11F		TTL	1		2.0*	.80Δ	3	10	0.0	5.0	12nΔ		240m		0	7	3	74-11N	DL14bh
57	N74H11N		TTL	1		2.0*	.80Δ	3	10	0.0	5.0	12nΔ		240m		0	7	3	74-11N	DL14br
58	N74H21F		TTL	1		2.0*	.80Δ	4	10	0.0	5.0	12nΔ		160m		0	7	2	54H21W	DL14bh
59	N74H21N		TTL	1		2.0*	.80Δ	4	10	0.0	5.0	12nΔ		160m		0	7	2	74H21N	DL14br
60	N74LS08D		TTL	1		2.0*	0.8Δ	2		0.0	5.0	12n		44m		0	7	4	74-08N	DL14bh
61	N74LS08N		TTL	1		2.0*	.80Δ	2	20	0.0	5.0	20nΔ		44m		0	7	4	74-08N	DL14br
62	N74LS09F		TTL	1		2.0*0	.80Δ	2	20	0.0	5.0	20n		44m		0	7	4	74-09N	DL14bh
63	N74LS09N		TTL	1		2.0*0	.80Δ	2	20	0.0	5.0	35nΔ		44m		0	7	4	74-09N	DL14br
64	N74LS11D		TTL	1		2.0*	0.8Δ	3		0.0	5.0	20n		33m		0	7	3	74-11N	DL14bh
65	N74LS11N		TTL	1		2.0*	.80Δ	3	20	0.0	5.0	20nΔ		33m		0	7	3	74-11N	DL14br
66	N74LS15F		TTL	1		2.0*0	.80Δ	3	20	0.0	5.0	20n		33m		0	7	3	74H15N	DL14bh
67	N74LS15N		TTL	1		2.0*0	.80Δ	3	20	0.0	5.0	35nΔ		33m		0	7	3	74H15N	DL14br
68	N74LS21D		TTL	1		2.0*	0.8Δ	4	20	0.0	5.0	20n		22m		0	7	2	74-21N	DL14bh
69	N74LS21N		TTL	1		2.0*	.80Δ	4	20	0.0	5.0	20nΔ		22m		0	7	2	74H21N	DL14br
70	N74S08F		TTL	1		2.0*	.80Δ	2	10	0.0	5.0	7.5nΔ		285m		0	7	4	74-08N	DL14bh
71	N74S08N		TTL	1		2.0*	.80Δ	2	10	0.0	5.0	7.5nΔ		285m		0	7	4	74-08N	DL14br
72	N74S09F		TTL	1		2.0*0	.80Δ	2	20	0.0	5.0	10nΔ		285m		0	7	4	74-09N	DL14bh
73	N74S09N		TTL	1		2.0*0	.80Δ	2	20	0.0	5.0	10nΔ		285m		0	7	4	74-09N	DL14br
74	N74S11D		TTL	1		2.0*	0.8Δ	3	10	0.0	5.0	7.5nΔ		210m	1.0 †	0	7	3	74-11N	DL14bh
75	N74S11N		TTL	1		2.0*	.80Δ	3	10	0.0	5.0	7.5nΔ		210m		0	7	3	74-11N	DL14br

5. GATES

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC (4) LOGIC (5) TYPE NO.

LINE NO.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN		POWER SUPPLY		PROPAGATION DELAY (S)	RISE TIME (S)	FALL TIME (S)	MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE (C)	PKTS PER MOD	DRAWINGS		
					3 | MIN. '1'	4 | MAX. '0'	IN	OUT MAX.	NEG. (V)	POS (V)								LOGIC OR BLOCK	OUTLINE	
					(V)	(V)														
1	N74S15F		TTL	1	2.0*0	.80Δ	3	10	0.0	5.0	9.0nΔ			210m	1.0 †	0	7	3	74H15N	DL14bh
2	N74S15N		TTL	1	2.0*0	.80Δ	3	10	0.0	5.0	9.0nΔ			210m	1.0 †	0	7	3	74H15N	DL14br
3	N7408F		TTL	1	2.0*	.80Δ	2	10	0.0	5.0	27nΔ			165m	1.0 †	0	7	4	74-08N	DL14bh
4	N7408N		TTL	1	2.0*	.80Δ	2	10	0.0	5.0	27nΔ			165m	1.0 †	0	7	4	74-08	DL14br
5	N7409F		TTL	1	2.0*0	.80Δ	2	10	0.0	5.0	32nΔ			165m	1.0 †	0	7	4	74-09N	DL14bh
6	N7409N		TTL	1	2.0*0	.80Δ	2	10	0.0	5.0	32nΔ			165m	1.0 †	0	7	4	74-09N	DL14br
7	N7411F		TTL	1	2.0*	.80Δ	3	10	0.0	5.0	27nΔ			100m	1.0 †	0	7	3	74-11N	DL14bh
8	N7411N		TTL	1	2.0*	.80Δ	3	10	0.0	5.0	27nΔ			100m	1.0 †	0	7	3	74-11N	DL14br
9	N7421F		TTL	1	2.0*	.80Δ	4	10	0.0	5.0	27nΔ			65m	1.0 †	0	7	2	74H21N	DL14bh
10	N7421N		TTL	1	2.0*	.80Δ	4	10a	0.0	5.0	27nΔ			65m	1.0 †	0	7	2	74H21N	DL14br
11#	S54F08F		TTL	1	2.0	0.8	2	10	-0.5	7.0	5.6nΔ								74-08	DL14o
12#	S54F08W		TTL	1	2.0	0.8	2	10	-0.5	7.0	5.6nΔ								54S08	FP153
13#	S54F11F		TTL	1	2.0	0.8	3	10	-0.5	7.0	5.6nΔ								74-11	DL14o
14#	S54F11W		TTL	1	2.0	0.8	3	10	-0.5	7.0	5.6nΔ								54S11	FP153
15#	S54H08F		TTL	1	2.0*	.80Δ	2	10	0.0	5.0	12nΔ			320m					74-08N	DL14bh
16	S54H08W		TTL	1	2.0*	.80Δ	2	10	0.0	5.0	12nΔ			320m					54S08	FP39e
17	S54H11F		TTL	1	2.0*	.80Δ	3	10	0.0	5.0	12nΔ			240m					74-11N	DL14bh
18	S54H11W		TTL	1	2.0*	.80Δ	3	10	0.0	5.0	12nΔ			240m					54H11W	FP39e
19	S54H21F		TTL	1	2.0*	.80Δ	4	10	0.0	5.0	12nΔ			160m					74H21N	DL14bh
20	S54H21W		TTL	1	2.0*	.80Δ	4	10	0.0	5.0	12nΔ			160m					54H21W	FP39e
21	S54S08F		TTL	1	2.0*	.80Δ	2	10	0.0	5.0	7.5nΔ			285m					74-08N	DL14bh
22	S54S08W		TTL	1	2.0*	.80Δ	2	10	0.0	5.0	7.5nΔ			285m					54S08W	FP39e
23	S54S09F		TTL	1	2.0*0	.80Δ	2	10	0.0	5.0	10nΔ			285m					74-09N	DL14bh
24	S54S09W		TTL	1	2.0*0	.80Δ	2	10	0.0	5.0	10nΔ			285m					54S09W	FP39e
25	S54S11F		TTL	1	2.0*	.80Δ	3	10	0.0	5.0	7.5nΔ			210m					74-11N	DL14bh
26	S54S11W		TTL	1	2.0*	.80Δ	3	10	0.0	5.0	7.5nΔ			210m					54S11W	FP39e
27	S54S15F		TTL	1	2.0*0	.80Δ	3	10	0.0	5.0	9.0nΔ			210m					74H15N	DL14bh
28	S54S15W		TTL	1	2.0*0	.80Δ	3	10	0.0	5.0	9.0nΔ			210m					54H15W	FP39e
29	S5408F		TTL	1	2.0*	.80Δ	2	10	0.0	5.0	27nΔ			130m	1.0 †				74-08N	DL14bh
30	S5408W		TTL	1	2.0*	.80Δ	2	10	0.0	5.0	27nΔ			130m	1.0 †				54S08W	FP39e
31	S5409F		TTL	1	2.0*	.80Δ	2	10	0.0	5.0	34nΔ			130m	1.0 †				74-09N	DL14bh
32	S5409W		TTL	1	2.0*	.80Δ	2	10	0.0	5.0	34nΔ			130m	1.0 †				54S09W	FP39e
33	S5411F		TTL	1	2.0*	.80Δ	3	10	0.0	5.0	27nΔ			100m	1.0 †				74-11N	DL14bh
34	S5411W		TTL	1	2.0*	.80Δ	3	10	0.0	5.0	27nΔ			100m	1.0 †				54H11W	FP39e
35	S5421F		TTL	1	2.0*	.80Δ	4	10	0.0	5.0	27nΔ			65m	1.0 †				74H21N	DL14bh
36	S5421W		TTL	1	2.0*	.80Δ	4	10	0.0	5.0	27nΔ			65m	1.0 †				54H21W	FP39e
37#	SFC408E		TTL	1	2.0*	.80Δ	2	10	0.0	5.0	27nΔ			130m	400m	0	7	4	74-08N	TO116
38#	SFC408EM		TTL	1	2.0*	.80Δ	2	10	0.0	5.0	27nΔ			130m	400m	0	7	4	74-08N	TO116
39#	SFC408ET		TTL	1	2.0*	.80Δ	2	10	0.0	5.0	27nΔ			130m	400m	2	7	4	74-08N	TO116
40#	SFC408EV		TTL	1	2.0*	.80Δ	2	10	0.0	5.0	27nΔ			130m	400m	4	7	4	74-08N	TO116
41#	SFC408P		TTL	1	2.0*	.80Δ	2	10	0.0	5.0	27nΔ			130m	400m	0	7	4	54S08W	TO85
42#	SFC408PM		TTL	1	2.0*	.80Δ	2	10	0.0	5.0	27nΔ			130m	400m	0	7	4	54S08W	TO85
43#	SFC409E		TTL	1	2.0*	.80Δ	2	10	0.0	5.0	32nΔ			130m	400m	0	7	4	74-09N	TO116
44#	SFC409EM		TTL	1	2.0*	.80Δ	2	10	0.0	5.0	32nΔ			130m	400m	0	7	4	74-09N	TO116
45#	SFC409ET		TTL	1	2.0*	.80Δ	2	10	0.0	5.0	32nΔ			130m	400m	2	7	4	74-09N	TO116
46#	SFC409EV		TTL	1	2.0*	.80Δ	2	10	0.0	5.0	32nΔ			130m	400m	4	7	4	74-09N	TO116
47#	SFC409P		TTL	1	2.0*	.80Δ	2	10	0.0	5.0	32nΔ			130m	400m	0	7	4	54S09W	TO85
48#	SFC409PM		TTL	1	2.0*	.80Δ	2	10	0.0	5.0	32nΔ			130m	400m	0	7	4	54S09W	TO85
49#	SFC411HE		TTL	1	2.0*	.80Δ	3	20	0.0	5.0	12nΔ			60m†	400m	0	7	3	74-10N	TO116
50#	SFC411HEM		TTL	1	2.0*	.80Δ	3	20	0.0	5.0	12nΔ			60m†	400m	0	7	3	74-10N	TO116
51#	SFC411HP		TTL	1	2.0*	.80Δ	3	20	0.0	5.0	12nΔ			60m†	400m	0	7	3	54-10W	TO85
52#	SFC411HPM		TTL	1	2.0*	.80Δ	3	20	0.0	5.0	12nΔ			60m†	400m	0	7	3	54-10W	TO85
53#	SFC421HE		TTL	1	2.0*	.80Δ	4	10	0.0	5.0	12nΔ				1.0	0	7	2		TO116
54#	SFC421HEM		TTL	1	2.0*	.80Δ	4	10	0.0	5.0	12nΔ				1.0	0	7	2		TO116
55	SN54ALS08J#		TTL	1	2.0	0.8	8	4	0.0	5.0	17n								74-08	DL14ci
56	SN54ALS08J#mil		TTL	1	2.0	0.8	8	4	0	7.0	16n								74-09N	DL14c
57	SN54ALS08N		TTL	1	2.0	0.8	8	4	0.0	5.0	17n								74-08	DL14dg
58	SN54ALS09J		TTL	1	2.0	0.8	8	4	0.0	7.0		59n	17n						74-09	DL14af
59	SN54ALS09J#		TTL	1	2.0	0.8	8	4	0.0	5.0	35n								74-09	DL14ci
60	SN54ALS09N		TTL	1	2.0	0.8	8	4	0.0	5.0	35n								74-09	DL14dg
61	SN54ALS11J#		TTL	1	2.0	0.8	9	3	0.0	5.0	23n								74-11	DL14ci
62	SN54ALS11J#mil		TTL	1	2.0	0.8	9	3	0	7.0	23n								74-11	DL14c
63	SN54ALS11N		TTL	1	2.0	0.8	9	3	0.0	5.0	23n								74-11	DL14dg
64	SN54ALS15J		TTL	1	2.0	0.8	9	3	0.0	7.0		59n	14n						74H15	DL14af
65	SN54ALS15J#		TTL	1	2.0	0.8	9	3	0.0	5.0	30n								74-15	DL14ci
66	SN54ALS15N		TTL	1	2.0	0.8	9	3	0.0	5.0	30n								74-15	DL14dg
67	SN54ALS21J#		TTL	1	2.0	0.8	8	2	0.0	5.0	24n								74-21	DL14ci
68	SN54ALS21J#mil		TTL	1	2.0	0.8	8	2	0	7.0	30n								G01-268	DL14c
69	SN54AS080J		TTL	1	2.0	0.8	8	4	0.0	7.0		6n	5n						G01-312	DL20b
70	SN54H11J		TTL	1	2.0*	.80Δ	3	10	0	7	12nΔ			240m	1.0				74-11N	DL14af
71	SN54H11W		TTL	1	2.0*	.80Δ	3	10	0.0	5.0	12nΔ			240m	1.0				54H11W	MO004AA
72	SN54H15J		TTL	1	2.0*	.80Δ	3	10	0.0	5.0	12n			240m	1.0				74H15N	DL14af
73	SN54H15W		TTL	1	2.0*	.80Δ	3	10	0.0	5.0	12n			240m	1.0				54H15W	MO004AA
74	SN54H21J		TTL	1	2.0*	.80Δ	4	10	0	7	12nΔ			160m	1.0				74H21N	DL14af
75	SN54H21W		TTL	1	2.0*	.80Δ	4	10	0.0	5.0	12nΔ			160m	1.0				54H21W	MO004AA
76	SN54S08J		TTL	1	2.0*	.80Δ	2	10	0.0	5.0	7.5nΔ			285m	1.0				74-08N	DL14af
77	SN54S08W		TTL	1	2.0*	.80Δ	2	10	0.0	5.0	7.5nΔ			285m	1.0				54S08W	MO004AA
78	SN54S09J		TTL	1	2.0*	.80Δ	2	10	0.0	5.0	10nΔ			285m	1.0				74-09N	DL14af
79	SN54S09W		TTL	1	2.0*	.80Δ	2	10	0.0	5.0	10nΔ			285m	1.0				54S09W	MO004AA
80	SN54S11J		TTL	1</																

5. GATES

IN ORDER OF:(1)TECHNOLOGY(2)TYPE(3)LOGIC(4)LOGIC(5)TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN		POWER SUPPLY SPAN		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	PKTS PER MOD	DRAWINGS			
					3] MIN. '1' (V)	4] MAX. '0' (V)	IN	OUT MAX.	NEG. (V)	POS. (V)		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE		
1	SN74LS09N		TTL	1	2.0*	.80Δ	2	22	0.0	5.0	35nΔ			44m	1.0 *	0	7	4	74-09N	DL14r	
2	SN74LS11J		TTL	1	2.0*	.80Δ	3	22	0.0	5.0	20nΔ			33m	1.0 *	0	7	3	74-11N	DL14af	
3	SN74LS11N		TTL	1	2.0*	.80Δ	3	22	0.0	5.0	20nΔ			33m	1.0 *	0	7	3	74-11N	DL14r	
4	SN74LS15J		TTL	1	2.0*Ø	.80Δ	3	22	0.0	5.0	35nΔ			33m	1.0 *	0	7	3	74H15N	DL14af	
5	SN74LS15N		TTL	1	2.0*Ø	.80Δ	3	22	0.0	5.0	35nΔ			33m	1.0 *	0	7	3	74H15N	DL14r	
6	SN74LS21J		TTL	1	2.0*	.80Δ	4	22	0.0	5.0	20nΔ			22m	1.0 *	0	7	2	74H21N	DL14af	
7	SN74LS21N		TTL	1	2.0*	.80Δ	4	22	0.0	5.0	20nΔ			22m	1.0 *	0	7	2	74H21N	DL14r	
8	SN74S08J		TTL	1	2.0*	.80Δ	2	10	0.0	5.0	7.5nΔ			285m	1.0	0	7	4	74-08N	DL14af	
9	SN74S08N		TTL	1	2.0*	.80Δ	2	10	0.0	5.0	7.5nΔ			285m	1.0	0	7	4	74-08N	DL14r	
10	SN74S09J		TTL	1	2.0*	.80Δ	2	10	0.0	5.0	10nΔ			285m	1.0	0	7	4	74-09N	DL14af	
11	SN74S09N		TTL	1	2.0*	.80Δ	2	10	0.0	5.0	10nΔ			285m	1.0	0	7	4	74-09N	DL14r	
12	SN74S11J		TTL	1	2.0*	.80Δ	3	20	0.0	5.0	5.0n			210m	1.0	0	7	3	74-11N	DL14af	
13	SN74S11N		TTL	1	2.0*	.80Δ	3	20	0.0	5.0	5.0n			210m	1.0	0	7	3	74-11N	DL14r	
14	SN74S15J		TTL	1	2.0*	.80Δ	3	10	0.0	5.0	6.0n			87m†	1.0	0	7	3	74H15N	DL14af	
15	SN74S15N		TTL	1	2.0*	.80Δ	3	10	0.0	5.0	6.0n			87m†	1.0	0	7	3	74H15N	DL14r	
16#	T74LS08B1		TTL	1	2.0*	.80Δ	2	22d	0.0	5.0	8.0n			44m%	300m	0	7	4	74-08N	DL14y	
17#	T74LS08D1		TTL	1	2.0*	.80Δ	2	22d	0.0	5.0	8.0n			44m%	300m	0	7	4	74-08N	DL14av	
18#	T74LS09B1		TTL	1	2.0*	.80Δ	2	22d	0.0	5.0	13n			44m%	300m	0	7	4	74-09N	DL14y	
19#	T74LS09D1		TTL	1	2.0*	.80Δ	2	22d	0.0	5.0	13n			44m%	300m	0	7	4	74-09N	DL14av	
20#	T74LS11B1		TTL	1	2.0*	.80Δ	3	5	0.0	5.0	8.5n			33m%	300m	0	7	3	74-11N	DL14y	
21#	T74LS11D1		TTL	1	2.0*	.80Δ	3	5	0.0	5.0	8.5n			33m%	300m	0	7	3	74-11N	DL14av	
22#	T74LS15B1		TTL	1	2.0*	.80Δ	3	5	0.0	5.0	13n			33m%	300m	0	7	3	74H15N	DL14y	
23#	T74LS15D1		TTL	1	2.0*	.80Δ	3	5	0.0	5.0	13n			33m%	300m	0	7	3	74H15N	DL14av	
24#	T74LS21B1		TTL	1	2.0*	.80Δ	3	5	0.0	5.0	10n			33m%	300m	0	7	2	54LS21W	DL14y	
25#	T74LS21D1		TTL	1	2.0*	.80Δ	3	5	0.0	5.0	10n			33m%	300m	0	7	2	54LS21W	DL14av	
26#	K155L1		TTL	1	2.4	0.4	2	2	0.0	5.0	0.0					1	7	4			
27	MC3001LP%		TTL	1	2.4*	.40CΔ	2	10	0.0	5.0	9.0n		27n	112m†		0	7	4	74-08N	TO116	
28	MC3101F		TTL	1	2.4*	.40CΔ	2	10	0.0	5.0	9.0n			112m†		5	C	4	54S09W	TO86	
29	MC3101L		TTL	1	2.4*	.40CΔ	2	10	0.0	5.0	9.0n			112m†		5	C	4	74-08N	TO116	
30	MC3126F		TTL	1	2.4*	.40CΔ	4	20	0.0	5.0	9.0n			90m†		5	C	4	74H21	TO86	
31	MC3126L		TTL	1	2.4*	.40CΔ	4	20	0.0	5.0	9.0n			90m†		5	C	4	74H21	TO116	
32	MC3026L.P%		TTL	1	2.5*	.40CΔ	4	20	0.0	5.0	9.0n			90m†		5	0	7	2	74H21N	TO116
33#	LC4081B		TTL	1	2.5	1.5Δ	2	2	0.0	5.0	125n		200n	300m		4	8	4	G01-260	DL14h	
34	RG80CJ		TTL	1	3.4	.20	3	15	0.0	5.0	11n			60m†	1.1	5	C	2		FF52j	
35	RG80CK		TTL	1	3.4	.20	3	15	0.0	5.0	11n			60m†	1.1	5	C	2		FF52k	
36	RG80DC		TTL	1	3.4	.20	3	15	0.0	5.0	11n			60m†	1.1	5	C	2		DL14be	
37	RG81CJ		TTL	1	3.4	.20	3	7	0.0	5.0	11n			60m†	1.1	5	C	2		FF52j	
38	RG81CK		TTL	1	3.4	.20	3	7	0.0	5.0	11n			60m†	1.1	5	C	2		FF52k	
39	RG81DC		TTL	1	3.4	.20	3	7	0.0	5.0	11n			60m†	1.1	5	C	2		DL14be	
40	RG82CJ		TTL	1	3.4	.20	3	12	0.0	5.0	11n			60m†	1.1	0	7	2		FF52j	
41	RG82CK		TTL	1	3.4	.20	3	12	0.0	5.0	11n			60m†	1.1	0	7	2		FF52k	
42	RG82DC		TTL	1	3.4	.20	3	12	0.0	5.0	11n			60m†	1.1	0	7	2		DL14be	
43	RG83CJ		TTL	1	3.4	.20	3	6	0.0	5.0	11n			60m†	1.1	0	7	2		FF52j	
44	RG83CK		TTL	1	3.4	.20	3	6	0.0	5.0	11n			60m†	1.1	0	7	2		FF52k	
45	RG83DC		TTL	1	3.4	.20	3	6	0.0	5.0	11n			60m†	1.1	0	7	2		DL14be	
46	RG180CJ		TTL	1	3.4	.20	4	0.0	5.0	1.0n			20m†	1.1	5	C	2		G06-57	FF52j	
47	RG180CK		TTL	1	3.4	.20	4	0.0	5.0	1.0n			20m†	1.1	5	C	2		G06-57	FF52k	
48	RG180DC		TTL	1	3.4	.20	4	0.0	5.0	1.0n			20m†	1.1	5	C	2		G06-57	DL14be	
49	RG181CJ		TTL	1	3.4	.20	4	0.0	5.0	1.0n			20m†	1.1	5	C	2		G06-57	FF52j	
50	RG181CK		TTL	1	3.4	.20	4	0.0	5.0	1.0n			20m†	1.1	5	C	2		G06-57	FF52k	
51	RG181DC		TTL	1	3.4	.20	4	0.0	5.0	1.0n			20m†	1.1	5	C	2		G06-57	DL14be	
52	RG182CJ		TTL	1	3.4	.20	4	0.0	5.0	1.0n			20m†	1.1	0	7	2		G06-57	FF52j	
53	RG182CK		TTL	1	3.4	.20	4	0.0	5.0	1.0n			20m†	1.1	0	7	2		G06-57	FF52k	
54	RG182DC		TTL	1	3.4	.20	4	0.0	5.0	1.0n			20m†	1.1	0	7	2		G06-57	DL14be	
55	RG183CJ		TTL	1	3.4	.20	4	0.0	5.0	1.0n			20m†	1.1	0	7	2		G06-57	FF52j	
56	RG183CK		TTL	1	3.4	.20	4	0.0	5.0	1.0n			20m†	1.1	0	7	2		G06-57	FF52k	
57	RG183DC		TTL	1	3.4	.20	4	0.0	5.0	1.0n			20m†	1.1	0	7	2		G06-57	DL14be	
58	RG280CJ		TTL	1	3.4	.20	4	15	0.0	5.0	11n			76m†	1.0	5	C	2		FF52j	
59	RG280CK		TTL	1	3.4	.20	4	15	0.0	5.0	11n			76m†	1.0	5	C	2		FF52k	
60	RG280DC		TTL	1	3.4	.20	4	15	0.0	5.0	11n			76m†	1.0	5	C	2		DL14be	
61	RG281CJ		TTL	1	3.4	.20	4	7	0.0	5.0	11n			76m†	1.0	5	C	2		FF52j	
62	RG281CK		TTL	1	3.4	.20	4	7	0.0	5.0	11n			76m†	1.0	5	C	2		FF52k	
63	RG281DC		TTL	1	3.4	.20	4	7	0.0	5.0	11n			76m†	1.0	5	C	2		DL14be	
64	RG282CJ		TTL	1	3.4	.20	4	12	0.0	5.0	11n			76m†	1.0	0	7	2		FF52j	
65	RG282CK		TTL	1	3.4	.20	4	12	0.0	5.0	11n			76m†	1.0	0	7	2		FF52k	
66	RG282DC		TTL	1	3.4	.20	4	12	0.0	5.0	11n			76m†	1.0	0	7	2		DL14be	
67	RG283CJ		TTL	1	3.4	.20	4	6	0.0	5.0	11n			76m†	1.0	0	7	2		FF52j	
68	RG283CK		TTL	1	3.4	.20	4	6	0.0	5.0	11n			76m†	1.0	0	7	2		FF52k	
69	RG283DC		TTL	1	3.4	.20	4	6	0.0	5.0	11n			76m†	1.0	0	7	2		DL14be	
70	SP302A		TTL	1	3.5*	.60CΔ	2	12	0.0	5.0	15n			62m	1.8	0	7	4	G01-226a	TO116	
71	SP304A		TTL	1	3.5*	.60CΔ	5	12	0.0	5.0	15n			62m	1.8	0	7	2	G01-226	TO116	
72#	K155L5		TTL	1	11.0Ø	65.0	4	4	0.0	5.0	0.0					1	7	2			
73	5411FM		TTL	1	2.0*	.40Δ	3	20	0.0	5.0	27nΔ							3	54H11W	FF52	
74	74S11PC		TTL	1	2.0*	.50Δ	3	20	0.0	5.0	7.0nΔ							3	74-11N	DL14ce	
75#	HD74ALS08		TTL	1.0	2.0	0.8			0.0	5.0	8.0n				0.4	0	7	4		DL14j	
76#	HD74ALS09		TTL	1.0	2.0	0.8			0.0	5.0	20n				0.4	0	7	4		DL14j	
77#	HD74ALS21		TTL	1.0	2.0	0.8			0.0	5.0	12n				0.4	0	7	2		DL14j	
78	JANM38510/30401BAA		TTL	1.2	2.0*	.70Δ	6		0.0	5.5	30nΔ			16m		5	C	2	54LS51W	FP115	
79	JANM38510/30401BAB		TTL	1.2	2.0*	.70Δ	6		0.0	5.5	30nΔ			16							

5. GATES

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC*1
(4) LOGIC*5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN IN		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS			
					3 | MIN. '1' (V)	4 | MAX. '0' (V)	IN	OUT MAX.		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE		
1	JANM38510/30401CDB		TTL	1,2	2.0*	.70Δ	6	0.0	5.5	30nΔ		16m		5	C	2	54LS51W	FP116	
2	JANM38510/30401CDC		TTL	1,2	2.0*	.70Δ	6	0.0	5.5	30nΔ		16m		5	C	2	54LS51W	FP116	
3	JANM38510/30402BAA		TTL	1,2	2.0*	.70Δ	10	0.0	5.5	30nΔ		11m		5	C	1	54LS54W	FP115	
4	JANM38510/30402BAB		TTL	1,2	2.0*	.70Δ	10	0.0	5.5	30nΔ		11m		5	C	1	54LS54W	FP115	
5	JANM38510/30402BAC		TTL	1,2	2.0*	.70Δ	10	0.0	5.5	30nΔ		11m		5	C	1	54LS54W	FP115	
6	JANM38510/30402BCA		TTL	1,2	2.0*	.70Δ	10	0.0	5.5	30nΔ		11m		5	C	1	54LS54W	FP115	
7	JANM38510/30402BCB		TTL	1,2	2.0*	.70Δ	10	0.0	5.5	30nΔ		11m		5	C	1	74LS4N	DL14bo	
8	JANM38510/30402BCC		TTL	1,2	2.0*	.70Δ	10	0.0	5.5	30nΔ		11m		5	C	1	74LS4N	DL14bo	
9	JANM38510/30402BDA		TTL	1,2	2.0*	.70Δ	10	0.0	5.5	30nΔ		11m		5	C	1	74LS4N	DL14bo	
10	JANM38510/30402BDB		TTL	1,2	2.0*	.70Δ	10	0.0	5.5	30nΔ		11m		5	C	1	54LS54W	FP116	
11	JANM38510/30402BDC		TTL	1,2	2.0*	.70Δ	10	0.0	5.5	30nΔ		11m		5	C	1	54LS54W	FP116	
12	JANM38510/30402CAA		TTL	1,2	2.0*	.70Δ	10	0.0	5.5	30nΔ		11m		5	C	1	54LS54W	FP116	
13	JANM38510/30402CAB		TTL	1,2	2.0*	.70Δ	10	0.0	5.5	30nΔ		11m		5	C	1	54LS54W	FP115	
14	JANM38510/30402CAC		TTL	1,2	2.0*	.70Δ	10	0.0	5.5	30nΔ		11m		5	C	1	54LS54W	FP115	
15	JANM38510/30402CCA		TTL	1,2	2.0*	.70Δ	10	0.0	5.5	30nΔ		11m		5	C	1	54LS54W	FP115	
16	JANM38510/30402CCB		TTL	1,2	2.0*	.70Δ	10	0.0	5.5	30nΔ		11m		5	C	1	74LS4N	DL14bo	
17	JANM38510/30402CCC		TTL	1,2	2.0*	.70Δ	10	0.0	5.5	30nΔ		11m		5	C	1	74LS4N	DL14bo	
18	JANM38510/30402CDA		TTL	1,2	2.0*	.70Δ	10	0.0	5.5	30nΔ		11m		5	C	1	74LS4N	DL14bo	
19	JANM38510/30402CDB		TTL	1,2	2.0*	.70Δ	10	0.0	5.5	30nΔ		11m		5	C	1	54LS54W	FP116	
20	JANM38510/30402CDC		TTL	1,2	2.0*	.70Δ	10	0.0	5.5	30nΔ		11m		5	C	1	54LS54W	FP116	
21	54H52DM		TTL	1,2	2.0*	.70Δ	10	0.0	5.5	30nΔ		11m		5	C	1	54LS54W	FP116	
22	54H52FM		TTL	1,2	2.0*	.80Δ	10	0.0	5.0	15nΔ		155m	1.0	5	C	1	74H52N	TO116	
23	74H52PC		TTL	1,2	2.0*	.80Δ	10	0.0	5.0	15nΔ		120m	1.0	0	7	1	54H52W	FP21h	
24 #	FJH151-7450		TTL	1,2	2.0*	.80Δ	6	10	0.0	5.0	11n	28m†	1.0	0	7	2	74-50N	DL14s	
25 #	FJH161-7451		TTL	1,2	2.0*	.80Δ	4	10	0.0	5.0	11n	28m†	1.0	0	7	2	74-50N	DL14s	
26 #	FJH171-7453		TTL	1,2	2.0*	.80Δ	10	10	0.0	5.0	11n	22m†	1.0	0	7	1	74-53N	DL14s	
27 #	FJH181-7454		TTL	1,2	2.0*	.80Δ	8	10	0.0	5.0	11n	22m†	1.0	0	7	1	74-53N	DL14s	
28	JANM38510/07401BCA		TTL	1,2	2.0*	.80Δ	4	0.0	5.5	10nΔ		121m		5	C	2	74-50N	DL14bo	
29	JANM38510/07401BCB		TTL	1,2	2.0*	.80Δ	4	0.0	5.5	10nΔ		121m		5	C	2	74-50N	DL14bo	
30	JANM38510/07401BDA		TTL	1,2	2.0*	.80Δ	4	0.0	5.5	10nΔ		121m		5	C	2	54S51W	FP116	
31	JANM38510/07401BDB		TTL	1,2	2.0*	.80Δ	4	0.0	5.5	10nΔ		121m		5	C	2	54S51W	FP116	
32	JANM38510/07401CCA		TTL	1,2	2.0*	.80Δ	4	0.0	5.5	10nΔ		121m		5	C	2	74-50N	DL14bo	
33	JANM38510/07401CCB		TTL	1,2	2.0*	.80Δ	4	0.0	5.5	10nΔ		121m		5	C	2	74-50N	DL14bo	
34	JANM38510/07401CDA		TTL	1,2	2.0*	.80Δ	4	0.0	5.5	10nΔ		121m		5	C	2	54S51W	FP116	
35	JANM38510/07401CDB		TTL	1,2	2.0*	.80Δ	4	0.0	5.5	10nΔ		121m		5	C	2	54S51W	FP116	
36	JANM38510/07402BCA		TTL	1,2	2.0*	.80Δ	11	0.0	5.5	10nΔ		88m		5	C	1	74S64N	DL14bo	
37	JANM38510/07402BCB		TTL	1,2	2.0*	.80Δ	11	0.0	5.5	10nΔ		88m		5	C	1	74S64N	DL14bo	
38	JANM38510/07402BDA		TTL	1,2	2.0*	.80Δ	11	0.0	5.5	10nΔ		88m		5	C	1	54S64W	FP116	
39	JANM38510/07402BDB		TTL	1,2	2.0*	.80Δ	11	0.0	5.5	10nΔ		88m		5	C	1	54S64W	FP116	
40	JANM38510/07402CCA		TTL	1,2	2.0*	.80Δ	11	0.0	5.5	10nΔ		88m		5	C	1	74S64N	DL14bo	
41	JANM38510/07402CCB		TTL	1,2	2.0*	.80Δ	11	0.0	5.5	10nΔ		88m		5	C	1	74S64N	DL14bo	
42	JANM38510/07402CDA		TTL	1,2	2.0*	.80Δ	11	0.0	5.5	10nΔ		88m		5	C	1	54S64W	FP116	
43	JANM38510/07402CDB		TTL	1,2	2.0*	.80Δ	11	0.0	5.5	10nΔ		88m		5	C	1	54S64W	FP116	
44 #	MB411		TTL	1,2	2.0*	.80Δ	10	10	0.0	5.0	10n	27m†		0	7	1	74-53N	DL14aq	
45 #	N74S64F		TTL	1,2	2.0*	.80Δ	11	10	0.0	5.0	5.5nΔ	80m	1.0 †	0	7	1	74S64N	DL14bh	
46	N74S64N		TTL	1,2	2.0*	.80Δ	11	10	0.0	5.0	5.5nΔ	80m		0	7	1	74S64N	DL14br	
47	N74S65F		TTL	1,2	2.0*∅	.80Δ	11	10	0.0	5.0	8.5nΔ	80m	1.0 †	0	7	1	74S65N	DL14bh	
48	N74S65N		TTL	1,2	2.0*∅	.80Δ	11	10	0.0	5.0	8.5nΔ	80m		0	7	1	74S65N	DL14br	
49	S54S51F		TTL	1,2	2.0*	.80Δ	4	10	0.0	5.0	5.5nΔ	110m		5	C	2	74-50N	DL14bh	
50	S54S51W		TTL	1,2	2.0*	.80Δ	4	10	0.0	5.0	5.5nΔ	110m		5	C	2	54S51W	FP39e	
51	SN54H52J		TTL	1,2	2.0*	.80Δ	10	10	0.0	5.0	15nΔ	155m	1.0	5	C	1	74H52N	DL14af	
52	SN54H52W		TTL	1,2	2.0*	.80Δ	10	10	0.0	5.0	15nΔ	155m	1.0	5	C	1	54H52W	MO004AA	
53	SN74H52J		TTL	1,2	2.0*	.80Δ	10	10	0.0	5.0	15nΔ	120m	1.0	0	7	1	74H52N	DL14af	
54	SN74H52N		TTL	1,2	2.0*	.80Δ	10	10	0.0	5.0	15nΔ	120m	1.0	0	7	1	74H52N	DL14r	
55 #	ZN5453E		TTL	1,2	3.5	.20	10	10	0.0	5.0	29n	10m	1.0	5	C	1		DL14m	
56 #	ZN5453F		TTL	1,2	3.5	.20	10	10	0.0	5.0	29n	10m	1.0	5	C	1		TO86	
57 #	ZN5454E		TTL	1,2	3.5	.20	8	10	0.0	5.0	29n	10m	1.0	5	C	1		DL14m	
58 #	ZN5454F		TTL	1,2	3.5	.20	8	10	0.0	5.0	29n	10m	1.0	5	C	1		TO86	
59 #	ZN7453E		TTL	1,2	3.5	.20	10	10	0.0	5.0	29n	10m	1.0	5	C	1		DL14m	
60 #	ZN7453F		TTL	1,2	3.5	.20	10	10	0.0	5.0	29n	10m	1.0	5	C	1		TO86	
61 #	ZN7454E		TTL	1,2	3.5	.20	8	10	0.0	5.0	29n	10m	1.0	5	C	1		DL14m	
62 #	ZN7454F		TTL	1,2	3.5	.20	8	10	0.0	5.0	29n	10m	1.0	5	C	1		TO86	
63 #	N74F64F		TTL	1,2,8	2.0	0.8			-0.5	7.0	6.0nΔ			0	7		74S64	DL14o	
64 #	N74F64N		TTL	1,2,8	2.0	0.8			-0.5	7.0	6.0nΔ			0	7		74S64	DL14n	
65 #	S54F64F		TTL	1,2,8	2.0	0.8			-0.5	7.0	6.0nΔ			0	7		74S64	DL14o	
66 #	S54F64W		TTL	1,2,8	2.0	0.8			-0.5	7.0	6.0nΔ			0	7		54S64	FP153	
67 #	K155LR1		TTL	1,2,8	2.4	0.4	4	10	5.0					1	7	2			
68 #	K155LR3		TTL	1,2,8	2.4	0.4	9	10	5.0					1	7	1			
69 #	K155LR4		TTL	1,2,8	2.4	0.4	8	10	5.0					1	7	1			
70	54H53FM		TTL	1,2S	2.0*	.80Δ	2	20	0.0	5.0	22nΔ			5	C	5	54H53W	FP52	
71	54S51DM		TTL	1,2S	2.0*	.80Δ	2	20	0.0	5.0	22nΔ			5	C	6	74-50N	DL14bf	
72	54S51FM		TTL	1,2S	2.0*	.80Δ	2	20	0.0	5.0	22nΔ			5	C	6	54S51W	FP52	
73	54S65FM		TTL	1,2S	2.0*	.80Δ	11	10	0.0	5.0	2.0nΔ		36m†	1.0	5	C	5	54S65W	FP52
74	74S51DC		TTL	1,2S	2.0*	.80Δ	2	20	0.0	5.0	22nΔ			0	7	6	74-50N	DL14bf	

5. GATES

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC (4) LOGIC (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN		POWER SUPPLY SPAN		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS	
					3 MIN. '1'	4 MAX. '0'	IN	OUT MAX.	NEG.	POS		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE
					(V)	(V)													
1	74S51PC		TTL	1,2S	2.0*	.80Δ	2	20	0.0	5.0	22nΔ							74-50N	DL14ce
2	5451FM		TTL	1,2S	2.0*	.80Δ	2	20	0.0	5.0	22nΔ							54-51W	FP52
3	5453FM		TTL	1,2S	2.0*	.80Δ	2	20	0.0	5.0	22nΔ							54-53W	FP52
4	5454FM		TTL	1,2S	2.0*	.80Δ	2	20	0.0	5.0	22nΔ							54-54W	FP52
5	DM9005CJ		TTL	1,3	1.6*	.85Δ	6	6	0.0	5.0	15nΔ		136m					74-50N	DL14ax
6	DM9005CN		TTL	1,3	1.6*	.85Δ	6	6	0.0	5.0	15nΔ		136m					74-50N	DL14bt
7	DM9008CJ		TTL	1,3	1.6*	.85Δ	11	11	0.0	5.0	15nΔ		88m					74H53N	DL14ax
8	DM9008CN		TTL	1,3	1.6*	.85Δ	11	11	0.0	5.0	15nΔ		88m					74H53N	DL14bt
9	SN29005J		TTL	1,3	1.8*	.85Δ	6	6	0.0	5.0	15nΔ		68n%					74-50N	DL14af
10	SN29005N		TTL	1,3	1.8*	.85Δ	6	6	0.0	5.0	15nΔ		68n%					74-50N	DL14r
11	SN29008J		TTL	1,3	1.8*	.85Δ	9	9	0.0	5.0	15nΔ		47m%					74-50N	DL14af
12	SN29008N		TTL	1,3	1.8*	.85Δ	9	9	0.0	5.0	15nΔ		47m%					74-50N	DL14r
13	54LS51DM		TTL	1,3	2.0*	.70Δ	6	2.5	0.0	5.0	8.0n		14m%	300m				74L51N	TO116
14	54LS51FM		TTL	1,3	2.0*	.70Δ	6	2.5	0.0	5.0	8.0n		14m%	300m				74L51N	TO86
15	54LS54DM		TTL	1,3	2.0*	.70Δ	10	2.5	0.0	5.0	10n		10m%	300m				74L54N	TO116
16	54LS54FM		TTL	1,3	2.0*	.70Δ	10	2.5	0.0	5.0	10n		10m%	300m				74L54N	TO86
17	54LS55FM		TTL	1,3	2.0*	.70Δ	8	2.5	0.0	5.0	10n		6.5m%	300m				54LS55W	TO86
18	DM54L51J		TTL	1,3	2.0*	.70Δ	6	20	0.0	5.0	90nΔ		2.0m†					74L51N	DL14ax
19	DM54L54J		TTL	1,3	2.0*	.70Δ	10	20	0.0	5.0	90nΔ		1.0m†					74L54N	DL14ax
20	DM54L55J		TTL	1,3	2.0*	.70Δ	8	20	0.0	5.0	90nΔ		1.0m†					74L55N	DL14ax
21	DM74L51N		TTL	1,3	2.0*	.70Δ	6	20	0.0	5.0	90nΔ		2.0m†					74L51N	DL14bt
22	DM74L54N		TTL	1,3	2.0*	.70Δ	10	20	0.0	5.0	90nΔ		1.0m†					74L54N	DL14bt
23	DM74L55N		TTL	1,3	2.0*	.70Δ	8	20	0.0	5.0	90nΔ		1.0m†					74L55N	DL14bt
24	S54LS51F		TTL	1,3	2.0*	.70Δ	6	6	0.0	5.0	20nΔ		14m					74L51N	DL14bh
25	S54LS51W		TTL	1,3	2.0*	.70Δ	6	6	0.0	5.0	20nΔ		14m					54LS51W	FP39e
26	S54LS54F		TTL	1,3	2.0*	.70Δ	10	10	0.0	5.0	20nΔ		10m					74L54N	DL14bh
27	S54LS54W		TTL	1,3	2.0*	.70Δ	10	10	0.0	5.0	20nΔ		10m					54LS54W	FP39e
28	S54LS55F		TTL	1,3	2.0*	.70Δ	8	8	0.0	5.0	20nΔ		6.5m					74L55N	DL14bh
29	S54LS55W		TTL	1,3	2.0*	.70Δ	8	8	0.0	5.0	20nΔ		6.5m					54LS55W	FP39e
30#	SFC451LE		TTL	1,3	2.0*	.70Δ	4	10	0.0	5.0	90nΔ		1.0m†	1.0m†				74-50N	TO116
31#	SFC451LEM		TTL	1,3	2.0*	.70Δ	4	10	0.0	5.0	90nΔ		1.0m†	1.0				74L54N	TO116
32#	SFC454LE		TTL	1,3	2.0*	.70Δ	10	10	0.0	5.0	90nΔ		1.0m†	1.0				74L54N	TO116
33#	SFC454LEM		TTL	1,3	2.0*	.70Δ	10	10	0.0	5.0	90nΔ		1.0m†	1.0				74L54N	TO116
34	SN54L51J		TTL	1,3	2.0*	.70Δ	6	10	0.0	5.0	90nΔ		6.5m	1.0				74L51N	DL14af
35	SN54L51W		TTL	1,3	2.0*	.70Δ	6	10	0.0	5.0	90nΔ		6.5m	1.0				54L51T	FP52e
36	SN54L54J		TTL	1,3	2.0*	.70Δ	10	10	0.0	5.0	90nΔ		4.9m	1.0				74L54N	DL14af
37	SN54L54W		TTL	1,3	2.0*	.70Δ	10	10	0.0	5.0	90nΔ		4.9m	1.0				54L54T	FP52e
38	SN54L55J		TTL	1,3	2.0*	.70Δ	8	10	0.0	5.0	90nΔ		3.2m	1.0				74L55N	DL14af
39	SN54L55W		TTL	1,3	2.0*	.70Δ	8	10	0.0	5.0	90nΔ		3.2m	1.0				54L55T	FP52e
40	SN54L551J		TTL	1,3	2.0*	.70Δ	6	11	0.0	5.0	20nΔ		14m	1.0 *				74L51N	DL14af
41	SN54L551W		TTL	1,3	2.0*	.70Δ	6	11	0.0	5.0	20nΔ		14m	1.0 *				54LS51W	FP97a
42	SN54L554J		TTL	1,3	2.0*	.70Δ	10	11	0.0	5.0	20nΔ		10m	1.0 *				74L54N	DL14af
43	SN54L554W		TTL	1,3	2.0*	.70Δ	10	11	0.0	5.0	20nΔ		10m	1.0 *				54LS54W	FP97a
44	SN54L555J		TTL	1,3	2.0*	.70Δ	6	11	0.0	5.0	20nΔ		6.5m	1.0 *				74L55N	DL14af
45	SN54L555W		TTL	1,3	2.0*	.70Δ	6	11	0.0	5.0	20nΔ		6.5m	1.0 *				54LS55W	FP97a
46#	T54LS51D2		TTL	1,3	2.0*	.70Δ	6	11d	0.0	5.0	8.0n		14m%	300m				74L51N	DL14av
47#	T54LS54D2		TTL	1,3	2.0*	.70Δ	10	11d	0.0	5.0	10n		10m%	300m				74L54N	DL14av
48#	T54LS55D2		TTL	1,3	2.0*	.70Δ	8	2.5	0.0	5.0	10u		6.5m%	300m				74L55N	DL14av
49	54F64DM		TTL	1,3	2.0*	.80Δ	11	12	0.0	5.0	4.8n		24m					74S64N	TO116
50	54F64FM		TTL	1,3	2.0*	.80Δ	11	12	0.0	5.0	4.8n		24m					54S64W	FP21h
51	54H50DM		TTL	1,3	2.0*	.80Δ	6	10	0.0	5.0	11nΔ		120m	1.0				74-50N	TO116
52	54H50FM		TTL	1,3	2.0*	.80Δ	6	10	0.0	5.0	11nΔ		120m	1.0				54-50W	FP21h
53	54H51DM		TTL	1,3	2.0*	.80Δ	4	10	0.0	5.0	11nΔ		120m	1.0				74-50N	TO116
54	54H51FM		TTL	1,3	2.0*	.80Δ	4	10	0.0	5.0	11nΔ		120m	1.0				54-51W	FP21h
55	54H53DM		TTL	1,3	2.0*	.80Δ	11	10	0.0	5.0	11nΔ		70m	1.0				74H53N	TO116
56	54H54DM		TTL	1,3	2.0*	.80Δ	9	10	0.0	5.0	11nΔ		70m	1.0				74H54N	TO116
57	54H54FM		TTL	1,3	2.0*	.80Δ	9	10	0.0	5.0	11nΔ		70m	1.0				54H54W	FP21h
58	54H55FM		TTL	1,3	2.0*	.80Δ	10	10	0.0	5.0	11nΔ		60m	1.0				54H55W	FP21h
59	54S64DM		TTL	1,3	2.0*	.80Δ	11	10	0.0	5.0	3.5n		39m†	1.0				74S64N	TO116
60	54S64FM		TTL	1,3	2.0*	.80Δ	11	10	0.0	5.0	3.5n		39m†	1.0				54S64W	FP21h
61	74F64DC		TTL	1,3	2.0*	.80Δ	11	12	0.0	5.0	4.8n		24m					74S64N	TO116
62	74F64PC		TTL	1,3	2.0*	.80Δ	11	12	0.0	5.0	4.8n		24m					74S64N	DL14ce
63	74H50DC		TTL	1,3	2.0*	.80Δ	6	10	0.0	5.0	11nΔ		120m	1.0				74-50N	TO116
64	74H50FC		TTL	1,3	2.0*	.80Δ	6	10	0.0	5.0	10nΔ		60m†	1.0				54-50w	FP21h
65	74H50PC		TTL	1,3	2.0*	.80Δ	6	10	0.0	5.0	11nΔ		120m	1.0				74-50N	DL14ce
66	74H51DC		TTL	1,3	2.0*	.80Δ	4	10	0.0	5.0	11nΔ		120m	1.0				74-50N	TO116
67	74H51PC		TTL	1,3	2.0*	.80Δ	4	10	0.0	5.0	11nΔ		120m	1.0				74-50N	DL14ce
68	74H53DC		TTL	1,3	2.0*	.80Δ	11	10	0.0	5.0	11nΔ		70m	1.0				74H53N	TO116
69	74H53PC		TTL	1,3	2.0*	.80Δ	11	10	0.0	5.0	11nΔ		70m	1.0				74H53N	DL14ce
70	74H54DC		TTL	1,3	2.0*	.80Δ	9	10	0.0	5.0	11nΔ		70m	1.0				74H54N	TO116
71	74H54PC		TTL	1,3	2.0*	.80Δ	9	10	0.0	5.0	11nΔ		70m	1.0				74H54N	DL14ce
72	74H55PC		TTL	1,3	2.0*	.80Δ	10	10	0.0	5.0	11nΔ		60m	1.0				74H55N	DL14ce
73	74LS51DC		TTL	1,3	2.0*	.80Δ	6	5	0.0	5.0	8.0n		14m%	300m				74L51	TO116
74	74LS51PC		TTL	1,3	2.0*	.80Δ	6	5	0.0	5.0	8.0n		14m%	300m				74L51	TO116
75	74LS54DC		TTL	1,3	2.0*	.80Δ	10	5	0.0	5.0	10n		10m%	300m				74L54N	TO116
76	74LS54PC		TTL	1,3	2.0*	.80Δ	10	5	0.0	5.0	10n		10m%	300m				74L54N	TO116
77	74LS55PC		TTL	1,3	2.0*	.80Δ	8	5	0.0	5.0	10n		6.5m%	300m				74L55N	TO116
78	74S64DC		TTL	1,3	2.0*	.80Δ	11	10	0.0	5.0	3.5n		39m†	1.0				74S64N	TO116
79	74S64PC		TTL	1,3	2.0*	.80Δ	11	10	0.0	5.0	3.5n		39m†	1.0				74S64N	DL14ce
80	74S65PC		TTL	1,3	2.0*	.80Δ	11	10	0.0	5.0	5.0n		36m†	1.0				74S65N	DL14ce
81	5450DM		TTL	1,3	2.0*	.80Δ	5	10	0.0	5.0	22nΔ		70m	1					

5. GATES

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC (4) LOGIC (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN IN		POWER SUPPLY SPAN		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS	
					3] MIN. '1' (V)	4] MAX. '0' (V)	IN	OUT MAX.	NEG. (V)	POS (V)		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE
1	JANM38510/00501BAA		TTL	1,3	2.0*	.80Δ	6	10	0.0	5.5	27nΔ			102m	5	C	2	54-50W	FP115
2	JANM38510/00501BAB		TTL	1,3	2.0*	.80Δ	6	10	0.0	5.5	27nΔ			102m	5	C	2	54-50W	FP115
3	JANM38510/00501BAC		TTL	1,3	2.0*	.80Δ	6	10	0.0	5.5	27nΔ			102m	5	C	2	54-50W	FP115
4	JANM38510/00501BCA		TTL	1,3	2.0*	.80Δ	6	10	0.0	5.5	27nΔ			102m	5	C	2	74-50N	DL14bo
5	JANM38510/00501BCB		TTL	1,3	2.0*	.80Δ	6	10	0.0	5.5	27nΔ			102m	5	C	2	74-50N	DL14bo
6	JANM38510/00501BDA		TTL	1,3	2.0*	.80Δ	6	10	0.0	5.5	27nΔ			102m	5	C	2	54-50W	FP116
7	JANM38510/00501BDB		TTL	1,3	2.0*	.80Δ	6	10	0.0	5.5	27nΔ			102m	5	C	2	54-50W	FP116
8	JANM38510/00501CAA		TTL	1,3	2.0*	.80Δ	6	10	0.0	5.5	27nΔ			102m	5	C	2	54-50W	FP115
9	JANM38510/00501CAB		TTL	1,3	2.0*	.80Δ	6	10	0.0	5.5	27nΔ			102m	5	C	2	54-50W	FP115
10	JANM38510/00501CAC		TTL	1,3	2.0*	.80Δ	6	10	0.0	5.5	27nΔ			102m	5	C	2	54-50W	FP115
11	JANM38510/00501CCA		TTL	1,3	2.0*	.80Δ	6	10	0.0	5.5	27nΔ			102m	5	C	2	54-50W	FP115
12	JANM38510/00501CCB		TTL	1,3	2.0*	.80Δ	6	10	0.0	5.5	27nΔ			102m	5	C	2	74-50N	DL14bo
13	JANM38510/00501CDA		TTL	1,3	2.0*	.80Δ	6	10	0.0	5.5	27nΔ			102m	5	C	2	74-50N	DL14bo
14	JANM38510/00501CDB		TTL	1,3	2.0*	.80Δ	6	10	0.0	5.5	27nΔ			102m	5	C	2	54-50W	FP116
15	JANM38510/00502BAA		TTL	1,3	2.0*	.80Δ	6	10	0.0	5.5	27nΔ			102m	5	C	2	54-50W	FP116
16	JANM38510/00502BAB		TTL	1,3	2.0*	.80Δ	4	10	0.0	5.5	27nΔ			102m	5	C	2	54-51W	FP115
17	JANM38510/00502BAC		TTL	1,3	2.0*	.80Δ	4	10	0.0	5.5	27nΔ			102m	5	C	2	54-51W	FP115
18	JANM38510/00502BCA		TTL	1,3	2.0*	.80Δ	4	10	0.0	5.5	27nΔ			102m	5	C	2	54-51W	FP115
19	JANM38510/00502BCB		TTL	1,3	2.0*	.80Δ	4	10	0.0	5.5	27nΔ			102m	5	C	2	74-50N	DL14bo
20	JANM38510/00502BDA		TTL	1,3	2.0*	.80Δ	4	10	0.0	5.5	27nΔ			102m	5	C	2	74-50N	DL14bo
21	JANM38510/00502BDB		TTL	1,3	2.0*	.80Δ	4	10	0.0	5.5	27nΔ			102m	5	C	2	54-51W	FP116
22	JANM38510/00502CAA		TTL	1,3	2.0*	.80Δ	4	10	0.0	5.5	27nΔ			102m	5	C	2	54-51W	FP116
23	JANM38510/00502CAB		TTL	1,3	2.0*	.80Δ	4	10	0.0	5.5	27nΔ			102m	5	C	2	54-51W	FP115
24	JANM38510/00502CAC		TTL	1,3	2.0*	.80Δ	4	10	0.0	5.5	27nΔ			102m	5	C	2	54-51W	FP115
25	JANM38510/00502CCA		TTL	1,3	2.0*	.80Δ	4	10	0.0	5.5	27nΔ			102m	5	C	2	54-51W	FP115
26	JANM38510/00502CCB		TTL	1,3	2.0*	.80Δ	4	10	0.0	5.5	27nΔ			102m	5	C	2	74-50N	DL14bo
27	JANM38510/00502CDA		TTL	1,3	2.0*	.80Δ	4	10	0.0	5.5	27nΔ			102m	5	C	2	74-50N	DL14bo
28	JANM38510/00502CDB		TTL	1,3	2.0*	.80Δ	4	10	0.0	5.5	27nΔ			102m	5	C	2	54-51W	FP116
29	JANM38510/00503BAA		TTL	1,3	2.0*	.80Δ	4	10	0.0	5.5	27nΔ			102m	5	C	2	54-51W	FP116
30	JANM38510/00503BAB		TTL	1,3	2.0*	.80Δ	10	10	0.0	5.5	27nΔ			68m	5	C	1	54-53W	FP115
31	JANM38510/00503BAC		TTL	1,3	2.0*	.80Δ	10	10	0.0	5.5	27nΔ			68m	5	C	1	54-53W	FP115
32	JANM38510/00503BCA		TTL	1,3	2.0*	.80Δ	10	10	0.0	5.5	27nΔ			68m	5	C	1	54-53W	FP115
33	JANM38510/00503BCB		TTL	1,3	2.0*	.80Δ	10	10	0.0	5.5	27nΔ			68m	5	C	1	74-53N	DL14bo
34	JANM38510/00503BDA		TTL	1,3	2.0*	.80Δ	10	10	0.0	5.5	27nΔ			68m	5	C	1	74-53N	DL14bo
35	JANM38510/00503BDB		TTL	1,3	2.0*	.80Δ	10	10	0.0	5.5	27nΔ			68m	5	C	1	54-53W	FP116
36	JANM38510/00503CAA		TTL	1,3	2.0*	.80Δ	10	10	0.0	5.5	27nΔ			68m	5	C	1	54-53W	FP116
37	JANM38510/00503CAB		TTL	1,3	2.0*	.80Δ	10	10	0.0	5.5	27nΔ			68m	5	C	1	54-53W	FP115
38	JANM38510/00503CAC		TTL	1,3	2.0*	.80Δ	10	10	0.0	5.5	27nΔ			68m	5	C	1	54-53W	FP115
39	JANM38510/00503CCA		TTL	1,3	2.0*	.80Δ	10	10	0.0	5.5	27nΔ			68m	5	C	1	54-53W	FP115
40	JANM38510/00503CCB		TTL	1,3	2.0*	.80Δ	10	10	0.0	5.5	27nΔ			68m	5	C	1	74-53N	DL14bo
41	JANM38510/00503CDA		TTL	1,3	2.0*	.80Δ	10	10	0.0	5.5	27nΔ			68m	5	C	1	G01-246	DL14bo
42	JANM38510/00503CDB		TTL	1,3	2.0*	.80Δ	10	10	0.0	5.5	27nΔ			68m	5	C	1	54-53W	FP116
43	JANM38510/00504BAA		TTL	1,3	2.0*	.80Δ	8	10	0.0	5.5	27nΔ			68m	5	C	1	54-54W	FP115
44	JANM38510/00504BAB		TTL	1,3	2.0*	.80Δ	8	10	0.0	5.5	27nΔ			68m	5	C	1	54-54W	FP115
45	JANM38510/00504BAC		TTL	1,3	2.0*	.80Δ	8	10	0.0	5.5	27nΔ			68m	5	C	1	54-54W	FP115
46	JANM38510/00504BCA		TTL	1,3	2.0*	.80Δ	8	10	0.0	5.5	27nΔ			68m	5	C	1	74-53N	DL14bo
47	JANM38510/00504BCB		TTL	1,3	2.0*	.80Δ	8	10	0.0	5.5	27nΔ			68m	5	C	1	74-53N	DL14bo
48	JANM38510/00504BDA		TTL	1,3	2.0*	.80Δ	8	10	0.0	5.5	27nΔ			68m	5	C	1	54-54W	FP116
49	JANM38510/00504BDB		TTL	1,3	2.0*	.80Δ	8	10	0.0	5.5	27nΔ			68m	5	C	1	54-54W	FP116
50	JANM38510/00504CAA		TTL	1,3	2.0*	.80Δ	8	10	0.0	5.5	27nΔ			68m	5	C	1	54-54W	FP115
51	JANM38510/00504CAB		TTL	1,3	2.0*	.80Δ	8	10	0.0	5.5	27nΔ			68m	5	C	1	54-54W	FP115
52	JANM38510/00504CAC		TTL	1,3	2.0*	.80Δ	8	10	0.0	5.5	27nΔ			68m	5	C	1	54-54W	FP115
53	JANM38510/00504CCA		TTL	1,3	2.0*	.80Δ	8	10	0.0	5.5	27nΔ			68m	5	C	1	54-54W	FP115
54	JANM38510/00504CCB		TTL	1,3	2.0*	.80Δ	8	10	0.0	5.5	27nΔ			68m	5	C	1	74-53N	DL14bo
55	JANM38510/00504CDA		TTL	1,3	2.0*	.80Δ	8	10	0.0	5.5	27nΔ			68m	5	C	1	74-53N	DL14bo

5. GATES

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC (4) LOGIC NO. (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN IN		POWER SUPPLY SPAN		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE		CKTS PER MOD	DRAWINGS	
					3 MIN. '1' (V)	4 MAX. '0' (V)	IN	OUT MAX.	NEG. (V)	POS (V)		RISE TIME (S)	FALL TIME (S)			-	+		LOGIC OR BLOCK	OUTLINE
1	JANM38510/00504CDB		TTL	1,3	2.0*	.80Δ	8	10	0.0	5.5	27nΔ			68m		5	C	1	54-54W	FP116
2	JANM38510/04001BAA		TTL	1,3	2.0*	.80Δ	6	10	0.0	5.5	26nΔ			140m		5	C	2	54-50W	FP115
3	JANM38510/04001BAB		TTL	1,3	2.0*	.80Δ	6	10	0.0	5.5	26nΔ			140m		5	C	2	54-50W	FP115
4	JANM38510/04001BCA		TTL	1,3	2.0*	.80Δ	6	10	0.0	5.5	26nΔ			140m		5	C	2	74-50N	DL14bo
5	JANM38510/04001BCB		TTL	1,3	2.0*	.80Δ	6	10	0.0	5.5	26nΔ			140m		5	C	2	74-50N	DL14bo
6	JANM38510/04001BDA		TTL	1,3	2.0*	.80Δ	6	10	0.0	5.5	26nΔ			140m		5	C	2	54-50W	FP116
7	JANM38510/04001BDB		TTL	1,3	2.0*	.80Δ	6	10	0.0	5.5	26nΔ			140m		5	C	2	54-50W	FP116
8	JANM38510/04001CAA		TTL	1,3	2.0*	.80Δ	6	10	0.0	5.5	26nΔ			140m		5	C	2	54-50W	FP115
9	JANM38510/04001CAB		TTL	1,3	2.0*	.80Δ	6	10	0.0	5.5	26nΔ			140m		5	C	2	54-50W	FP115
10	JANM38510/04001CCA		TTL	1,3	2.0*	.80Δ	6	10	0.0	5.5	26nΔ			140m		5	C	2	74-50N	DL14bo
11	JANM38510/04001CCB		TTL	1,3	2.0*	.80Δ	6	10	0.0	5.5	26nΔ			140m		5	C	2	74-50N	DL14bo
12	JANM38510/04001CDA		TTL	1,3	2.0*	.80Δ	6	10	0.0	5.5	26nΔ			140m		5	C	2	54-50W	FP116
13	JANM38510/04001CDB		TTL	1,3	2.0*	.80Δ	6	10	0.0	5.5	26nΔ			140m		5	C	2	54-50W	FP116
14	JANM38510/04002BAA		TTL	1,3	2.0*	.80Δ	4	10	0.0	5.5	18nΔ			140m		5	C	2	54-51W	FP115
15	JANM38510/04002BAB		TTL	1,3	2.0*	.80Δ	4	10	0.0	5.5	18nΔ			140m		5	C	2	54-51W	FP115
16	JANM38510/04002BCA		TTL	1,3	2.0*	.80Δ	4	10	0.0	5.5	18nΔ			140m		5	C	2	74-50N	DL14bo
17	JANM38510/04002BCB		TTL	1,3	2.0*	.80Δ	4	10	0.0	5.5	18nΔ			140m		5	C	2	74-50N	DL14bo
18	JANM38510/04002BDA		TTL	1,3	2.0*	.80Δ	4	10	0.0	5.5	18nΔ			140m		5	C	2	54-51W	FP116
19	JANM38510/04002BDB		TTL	1,3	2.0*	.80Δ	4	10	0.0	5.5	18nΔ			140m		5	C	2	54-51W	FP116
20	JANM38510/04002CAA		TTL	1,3	2.0*	.80Δ	4	10	0.0	5.5	18nΔ			140m		5	C	2	54-51W	FP115
21	JANM38510/04002CAB		TTL	1,3	2.0*	.80Δ	4	10	0.0	5.5	18nΔ			140m		5	C	2	54-51W	FP115
22	JANM38510/04002CCA		TTL	1,3	2.0*	.80Δ	4	10	0.0	5.5	18nΔ			140m		5	C	2	74-50N	DL14bo
23	JANM38510/04002CCB		TTL	1,3	2.0*	.80Δ	4	10	0.0	5.5	18nΔ			140m		5	C	2	74-50N	DL14bo
24	JANM38510/04002CDA		TTL	1,3	2.0*	.80Δ	4	10	0.0	5.5	18nΔ			140m		5	C	2	54-51W	FP116
25	JANM38510/04002CDB		TTL	1,3	2.0*	.80Δ	4	10	0.0	5.5	18nΔ			140m		5	C	2	54-51W	FP116
26	JANM38510/04003BAA		TTL	1,3	2.0*	.80Δ	10	10	0.0	5.5	26nΔ			140m		5	C	1	54H53W	FP115
27	JANM38510/04003BAB		TTL	1,3	2.0*	.80Δ	10	10	0.0	5.5	26nΔ			140m		5	C	1	54H53W	FP115
28	JANM38510/04003BCA		TTL	1,3	2.0*	.80Δ	10	10	0.0	5.5	26nΔ			140m		5	C	1	74H53N	DL14bo
29	JANM38510/04003BCB		TTL	1,3	2.0*	.80Δ	10	10	0.0	5.5	26nΔ			140m		5	C	1	74H53N	DL14bo
30	JANM38510/04003BDA		TTL	1,3	2.0*	.80Δ	10	10	0.0	5.5	26nΔ			140m		5	C	1	54H53W	FP116
31	JANM38510/04003BDB		TTL	1,3	2.0*	.80Δ	10	10	0.0	5.5	26nΔ			140m		5	C	1	54H53W	FP116
32	JANM38510/04003CAA		TTL	1,3	2.0*	.80Δ	10	10	0.0	5.5	26nΔ			140m		5	C	1	54H53W	FP115
33	JANM38510/04003CAB		TTL	1,3	2.0*	.80Δ	10	10	0.0	5.5	26nΔ			140m		5	C	1	54H53W	FP115
34	JANM38510/04003CCA		TTL	1,3	2.0*	.80Δ	10	10	0.0	5.5	26nΔ			140m		5	C	1	74H53N	DL14bo
35	JANM38510/04003CCB		TTL	1,3	2.0*	.80Δ	10	10	0.0	5.5	26nΔ			140m		5	C	1	74H53N	DL14bo
36	JANM38510/04003CDA		TTL	1,3	2.0*	.80Δ	10	10	0.0	5.5	26nΔ			140m		5	C	1	54H53W	FP116
37	JANM38510/04003CDB		TTL	1,3	2.0*	.80Δ	10	10	0.0	5.5	20nΔ			140m		5	C	1	54H53W	FP116
38	JANM38510/04004BAA		TTL	1,3	2.0*	.80Δ	8	10	0.0	5.5	18nΔ			140m		5	C	1	54H54W	FP115
39	JANM38510/04004BAB		TTL	1,3	2.0*	.80Δ	8	10	0.0	5.5	18nΔ			140m		5	C	1	54H54W	FP115
40	JANM38510/04004BCA		TTL	1,3	2.0*	.80Δ	8	10	0.0	5.5	18nΔ			140m		5	C	1	74H54N	DL14bo
41	JANM38510/04004BCB		TTL	1,3	2.0*	.80Δ	8	10	0.0	5.5	18nΔ			140m		5	C	1	74H54N	DL14bo
42	JANM38510/04004BDA		TTL	1,3	2.0*	.80Δ	8	10	0.0	5.5	18nΔ			140m		5	C	1	54H54W	FP116
43	JANM38510/04004BDB		TTL	1,3	2.0*	.80Δ	8	10	0.0	5.5	18nΔ			140m		5	C	1	54H54W	FP116
44	JANM38510/04004CAA		TTL	1,3	2.0*	.80Δ	8	10	0.0	5.5	18nΔ			140m		5	C	1	54H54W	FP115
45	JANM38510/04004CAB		TTL	1,3	2.0*	.80Δ	8	10	0.0	5.5	18nΔ			140m		5	C	1	54H54W	FP115
46	JANM38510/04004CCA		TTL	1,3	2.0*	.80Δ	8	10	0.0	5.5	18nΔ			140m		5	C	1	74H54N	DL14bo
47	JANM38510/04004CCB		TTL	1,3	2.0*	.80Δ	8	10	0.0	5.5	18nΔ			140m		5	C	1	74H54N	DL14bo
48	JANM38510/04004CDA		TTL	1,3	2.0*	.80Δ	8	10	0.0	5.5	18nΔ			140m		5	C	1	54H54W	FP116
49	JANM38510/04005BAA		TTL	1,3	2.0*	.80Δ	10	10	0.0	5.5	26nΔ			75m		5	C	1	54H55W	FP115
50	JANM38510/04005BAB		TTL	1,3	2.0*	.80Δ	10	10	0.0	5.5	26nΔ			75m		5	C	1	54H55W	FP115
51	JANM38510/04005BCA		TTL	1,3	2.0*	.80Δ	10	10	0.0	5.5	26nΔ			75m		5	C	1	74H55N	DL14bo
52	JANM38510/04005BCB		TTL	1,3	2.0*	.80Δ	10	10	0.0	5.5	26nΔ			75m		5	C	1	74H55N	DL14bo
53	JANM38510/04005BDA		TTL	1,3	2.0*	.80Δ	10	10	0.0	5.5	26nΔ			75m		5	C	1	54H55W	FP116
54	JANM38510/04005BDB		TTL	1,3	2.0*	.80Δ	10	10	0.0	5.5	26nΔ			75m		5	C	1	54H55W	FP116
55	JANM38510/04005CAA		TTL	1,3	2.0*	.80Δ	10	10	0.0	5.5	26nΔ			75m		5	C	1	54H55W	FP115

5. GATES

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC '1'
(4) LOGIC '0' (5) TYPE NO.

LINE NO.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		IN	OUT MAX.	POWER SUPPLY SPAN		PROPAGATION DELAY (S)	RISE TIME (S)	FALL TIME (S)	MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS	
					3] MIN. '1' (V)	4] MAX. '0' (V)			NEG. (V)	POS. (V)								LOGIC OR BLOCK	OUTLINE
1	JANM38510/04005CAB		TTL	1,3	2.0*	.80Δ	10	10	0.0	5.5	26nΔ			75m	5	C	1	54H55W	FP115
2	JANM38510/04005CCA		TTL	1,3	2.0*	.80Δ	10	10	0.0	5.5	26nΔ			75m	5	C	1	74H55N	DL14bo
3	JANM38510/04005CCB		TTL	1,3	2.0*	.80Δ	10	10	0.0	5.5	26nΔ			75m	5	C	1	74H55N	DL14bo
4	JANM38510/04005CDA		TTL	1,3	2.0*	.80Δ	10	10	0.0	5.5	26nΔ			75m	5	C	1	54H55W	FP116
5	JANM38510/04005CDB		TTL	1,3	2.0*	.80Δ	10	10	0.0	5.5	26nΔ			75m	5	C	1	54H55W	FP116
6#	M53250P		TTL	1,3	2.0*	.80Δ	10	10	0.0	5.5	26nΔ			75m	5	C	1	54H55W	FP116
7#	M53253P		TTL	1,3	2.0*	.80Δ	6	10	0.0	7.0	20nΔ			14m†	1.0		2	74-50N	DL14d
8#	MB74LS51		TTL	1,3	2.0*	.80Δ	10	10	0.0	7.0	13n			22m†	1.0		0	74-53N	DL14d
9#	MB74LS51M		TTL	1,3	2.0*	.80Δ	6	20	0.0	5.0	20nΔ			14m	1.0 *	2	2	74L51N	DL14ai
10#	MB74LS54		TTL	1,3	2.0*	.80Δ	10	20	0.0	5.0	20nΔ			10m	1.0 *	2	7	74L51N	DL14bn
11#	MB74LS54M		TTL	1,3	2.0*	.80Δ	10	20	0.0	5.0	20nΔ			10m	1.0 *	2	7	74L54N	DL14ai
12#	MB74LS55		TTL	1,3	2.0*	.80Δ	8	20	0.0	5.0	20nΔ			6.5m	1.0 *	2	7	74L54N	DL14bn
13#	MB74LS55M		TTL	1,3	2.0*	.80Δ	8	20	0.0	5.0	20nΔ			6.5m	1.0 *	2	7	74L55N	DL14ai
14#	MB405		TTL	1,3	2.0*	.80Δ	6	10	0.0	5.0	10n			30m†		0	7	74-50N	DL14aq
15#	MB405M		TTL	1,3	2.0*	.80Δ	6	10	0.0	5.0	10n			30m†		0	7	74-50N	DL14ac
16#	MB411M		TTL	1,3	2.0*	.80Δ	10	10	0.0	5.0	10n			27m†		0	7	74-53N	DL14ac
17#	MB606		TTL	1,3	2.0*	.80Δ	6	10	0.0	5.0	8n			62m†		0	7	74-50N	DL14aq
18#	MB613		TTL	1,3	2.0*	.80Δ	11	10	0.0	5.0	8n			45m†		0	7	74-50N	DL14aq
19	N74H51F		TTL	1,3	2.0*	.80Δ	4	10	0.0	5.0	6.8n			120m		0	7	74-50N	DL14bh
20	N74H51N		TTL	1,3	2.0*	.80Δ	4	10	0.0	5.0	6.8n			120m		0	7	74-50N	DL14br
21	N74H54F		TTL	1,3	2.0*	.80Δ	9	10	0.0	5.0	7.0n			70m		0	7	74H54N	DL14bh
22	N74H54N		TTL	1,3	2.0*	.80Δ	9	10	0.0	5.0	7.0n			70m		0	7	74H54N	DL14br
23	N74H55F		TTL	1,3	2.0*	.80Δ	10	10	0.0	5.0	7.0n			60m		0	7	74H55N	DL14bh
24	N74LS51D		TTL	1,3	2.0*	0.8Δ	6	20	0.0	5.0	20nΔ			14m		0	7	74L51N	DL14bh
25	N74LS51N		TTL	1,3	2.0*	.80Δ	6	20	0.0	5.0	20nΔ			14m		0	7	74L51N	DL14br
26	N74LS54D		TTL	1,3	2.0*	0.8Δ	10	20	0.0	5.0	20nΔ			10m		0	7	74L54N	DL14bh
27	N74LS54N		TTL	1,3	2.0*	.80Δ	10	20	0.0	5.0	20nΔ			10m		0	7	74L54N	DL14br
28	N74LS55F		TTL	1,3	2.0*	.80Δ	8	20	0.0	5.0	20nΔ			6.5m		0	7	74L55N	DL14bh
29	N74LS55N		TTL	1,3	2.0*	.80Δ	8	20	0.0	5.0	20nΔ			6.5m		0	7	74L55N	DL14br
30	N74S51D		TTL	1,3	2.0*	0.8Δ	6	10	0.0	5.0	5.5nΔ			110m		0	7	74-50N	DL14bh
31	N74S51N		TTL	1,3	2.0*	.80Δ	6	10	0.0	5.0	5.5nΔ			110m		0	7	74-50N	DL14br
32	N7451F		TTL	1,3	2.0*	.80Δ	6	10	0.0	5.0	22nΔ			70m	1.0 †	0	7	74-50N	DL14bh
33	N7451N		TTL	1,3	2.0*	.80Δ	6	10	0.0	5.0	22nΔ			70m		0	7	74-50N	DL14br
34	N7454F		TTL	1,3	2.0*	.80Δ	9	10	0.0	5.0	22nΔ			47m	1.0 †	0	7	74-53N	DL14bh
35	N7454N		TTL	1,3	2.0*	.80Δ	9	10	0.0	5.0	22nΔ			47m		0	7	74-53N	DL14br
36	S54H51F		TTL	1,3	2.0*	.80Δ	6	10	0.0	5.0	6.8n			120m		0	7	74-50N	DL14br
37	S54H51W		TTL	1,3	2.0*	.80Δ	6	10	0.0	5.0	6.8n			120m		0	7	54-51W	FP39e
38	S54H54F		TTL	1,3	2.0*	.80Δ	9	10	0.0	5.0	7.0n			70m		0	7	74H54N	DL14bh
39	S54H54W		TTL	1,3	2.0*	.80Δ	9	10	0.0	5.0	7.0n			70m		0	7	74H54N	FP39e
40	S54H55W		TTL	1,3	2.0*	.80Δ	10	10	0.0	5.0	7.0n			60m		0	7	54H55W	FP39e
41	S54S64F		TTL	1,3	2.0*	.80Δ	11	10	0.0	5.0	5.5nΔ			80m		0	7	54S65W	DL14bh
42	S54S64W		TTL	1,3	2.0*	.80Δ	11	10	0.0	5.0	5.5nΔ			80m		0	7	54S64W	FP39e
43	S54S65F		TTL	1,3	2.0*0	.80Δ	11	10	0.0	5.0	8.5nΔ			80m		0	7	74S65N	DL14bh
44	S54S65W		TTL	1,3	2.0*0	.80Δ	11	10	0.0	5.0	8.5nΔ			80m		0	7	54S65W	FP39e
45	S5451F		TTL	1,3	2.0*	.80Δ	6	10	0.0	5.0	22nΔ			70m	1.0 †	0	7	74-50N	DL14bh
46	S5451W		TTL	1,3	2.0*	.80Δ	6	10	0.0	5.0	22nΔ			70m	1.0 †	0	7	54-51W	FP39e
47	S5454F		TTL	1,3	2.0*	.80Δ	10	10	0.0	5.0	22nΔ			47m	1.0 †	0	7	74-53N	DL14bh
48	S5454W		TTL	1,3	2.0*	.80Δ	10	10	0.0	5.0	22nΔ			47m	1.0 †	0	7	54H54W	FP39e
49#	SFC450EM		TTL	1,3	2.0*	.80Δ	4	10	0.0	5.0	22nΔ			14m		0	7	74-50N	TO116
50#	SFC451EM		TTL	1,3	2.0*	.80Δ	4	10	0.0	5.0	22nΔ			40m†	1.0	0	7	74-50N	TO116
51#	SFC451ET		TTL	1,3	2.0*	.80Δ	4	10	0.0	5.0	22nΔ			40m†	1.0	0	7	74-50N	TO116
52#	SFC451HE		TTL	1,3	2.0*	.80Δ	4	10	0.0	5.0	10nΔ			10m	1.0	0	7	74-50N	TO116
53#	SFC451HEM		TTL	1,3	2.0*	.80Δ	4	10	0.0	5.0	10nΔ			10m	1.0	0	7	74-50N	TO116
54#	SFC451HPM		TTL	1,3	2.0*	.80Δ	4	10	0.0	5.0	10nΔ			10m	1.0	0	7	54-51W	TO85
55#	SFC453E		TTL	1,3	2.0*	.80Δ	8	10	0.0	7.0	13n			14m	400m*	0	7	74-53N	TO116
56#	SFC453EM		TTL	1,3	2.0*	.80Δ	9	10	0.0	5.0	22nΔ			14m	1.0	0	7	74-53N	TO116
57#	SFC453ET		TTL	1,3	2.0*	.80Δ	9	10	0.0	5.0	22nΔ			14m	1.0	0	7	74-53N	TO116
58#	SFC453HE		TTL	1,3	2.0*	.80Δ	9	10	0.0	7.0	6n			20m†	400m	0	7	74-53N	TO116
59#	SFC453HPM		TTL	1,3	2.0*	.80Δ	9	10	0.0	7.0	6n			20m†	400m	0	7	74-53N	ZBZ†
60#	SFC454E		TTL	1,3	2.0*	.80Δ	8	10	0.0	5.0	13n			10m	400m*	0	7	74-53N	TO116
61#	SFC454EM		TTL	1,3	2.0*	.80Δ	8	10	0.0	5.0	22nΔ			14m	1.0	0	7	74-53N	TO116
62#	SFC454ET		TTL	1,3	2.0*	.80Δ	8	10	0.0	5.0	22nΔ			14m	1.0	0	7	74H54N	TO116
63#	SFC454HE		TTL	1,3	2.0*	.80Δ	9	10	0.0	5.0	10nΔ			10m	1.0	0	7	74H54N	TO116
64#	SFC454HEM		TTL	1,3	2.0*	.80Δ	9	10	0.0	5.0	10nΔ			10m	1.0	0	7	74H54N	TO116
65#	SFC454HPM		TTL	1,3	2.0*	.80Δ	9	10	0.0	5.0	10nΔ			10m	1.0	0	7	54H54W	TO85
66#	SFC454PM		TTL	1,3	2.0*	.80Δ	6	10	0.0	7.0	13n			40m†	400m	0	7	74-50N	ZBZ†
67	SN54H50J		TTL	1,3	2.0*	.80Δ	6	10	0.0	5.0	11nΔ			120m	1.0	0	7	74-50N	DL14af
68	SN54H50W		TTL	1,3	2.0*	.80Δ	6	10	0.0	5.0	11nΔ			120m	1.0	0	7	54-50W	MO004AA
69	SN54H51J		TTL	1,3	2.0*	.80Δ	4	10	0.0	5.0	11nΔ			120m	1.0	0	7	74L51	DL14af
70	SN54H51W		TTL	1,3	2.0*	.80Δ	4	10	0.0	5.0	11nΔ			120m	1.0	0	7	54-51W	MO004AA
71	SN54H53J		TTL	1,3	2.0*	.80Δ	11	10	0.0	5.0	11nΔ			70m	1.0	0	7	74H53N	DL14af
72	SN54H53W		TTL	1,3	2.0*	.80Δ	11	10	0.0	5.0	11nΔ			70m	1.0	0	7	74H53N	DL14r
73	SN54H54J		TTL	1,3	2.0*	.80Δ	9	10	0.0	5.0	11nΔ			70m	1.0	0	7	74H54N	DL14af
74	SN54H54W		TTL	1,3	2.0*	.80Δ	9	10	0.0	5.0	11nΔ			70m	1.0	0	7	74H54N	DL14af
75	SN54H55J		TTL	1,3	2.0*	.80Δ	10	10	0.0	5.0	11nΔ			60m	1.0	0	7	54H54W	MO004AA
76	SN54H55W		TTL	1,3	2.0*	.80Δ	10	10	0.0	5.0	11nΔ			60m	1.0	0	7	54H55W	MO004AA
77	SN54S51J		TTL	1,3	2.0*	.80Δ	4	10	0.0	5.0	5.5nΔ			56m†	300m	0	7	74-50N	DL14af
78	SN54S51W		TTL	1,3	2.0*	.80Δ	4	10	0.0	5.0	5.5nΔ			56m†	300m	0	7	54S51W	MO004AA
79	SN54S64J		TTL	1,3	2.0*	.80Δ	11	20	0.0	5.0	3.5n			39m†	1.0	0	7	74S64N	DL1

5. GATES

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC¹
(4) LOGIC² (5) TYPE NO.

LINE NO.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN		POWER SUPPLY SPAN		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE (°C)	CKTS PER MOD	DRAWINGS		
					3] MIN. (V)	4] MAX. (V)	IN	OUT MAX.	NEG. (V)	POS. (V)		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE	
1	SN5450W		TTL	1,3	2.0*	.80Δ	5	10	0.0	5.0	22nΔ			70m	1.0	5	5	2	54-50W	MC004AA
2	SN5451J		TTL	1,3	2.0*	.80Δ	4	10	0.0	5.0	22nΔ			70m	1.0	5	5	2	74-50N	DL14af
3	SN5451W		TTL	1,3	2.0*	.80Δ	4	10	0.0	5.0	22nΔ			70m	1.0	5	5	2	54-51W	MC004AA
4	SN5453J		TTL	1,3	2.0*	.80Δ	6	10	0.0	5.0	22nΔ			47m	1.0	5	5	1	74-53N	DL14af
5	SN5453W		TTL	1,3	2.0*	.80Δ	6	10	0.0	5.0	22nΔ			47m	1.0	5	5	1	54-53W	MC004AA
6	SN5454J		TTL	1,3	2.0*	.80Δ	4	10	0.0	5.0	22nΔ			47m	1.0	5	5	1	74-53N	DL14af
7	SN5454W		TTL	1,3	2.0*	.80Δ	4	10	0.0	5.0	22nΔ			47m	1.0	5	5	1	54-54W	MC004AA
8	SN7450J		TTL	1,3	2.0*	.80Δ	5	10	0.0	5.0	22nΔ			70m	1.0	0	7	2	74-50N	DL14af
9	SN7450N		TTL	1,3	2.0*	.80Δ	4	10	0.0	5.0	22nΔ			70m	1.0	0	7	2	74-50N	DL14af
10	SN7451		TTL	1,3	2.0*	.80Δ	4	10	0.0	7.0	22n			14m	1.0	0	7	2	74-50N	TO84
11	SN7451J		TTL	1,3	2.0*	.80Δ	4	10	0.0	5.0	22nΔ			70m	1.0	0	7	2	74-50N	DL14af
12	SN7451N		TTL	1,3	2.0*	.80Δ	4	10	0.0	5.0	22nΔ			70m	1.0	0	7	2	74-50N	DL14af
13	SN7453		TTL	1,3	2.0*	.80Δ	9	10	0.0	7.0	22n			14m	1.0	0	7	1	54-53W	TO84
14	SN7453J		TTL	1,3	2.0*	.80Δ	6	10	0.0	5.0	22nΔ			47m	1.0	0	7	1	74-53N	DL14af
15	SN7453N		TTL	1,3	2.0*	.80Δ	9	10	0.0	5.0	22nΔ			47m	1.0	0	7	1	74-53N	DL14af
16	SN7454		TTL	1,3	2.0*	.80Δ	8	10	0.0	7.0	22n			14m	1.0	0	7	1	54-54W	TO84
17	SN7454J		TTL	1,3	2.0*	.80Δ	4	10	0.0	5.0	22nΔ			47m	1.0	0	7	1	74-53N	DL14af
18	SN7454N		TTL	1,3	2.0*	.80Δ	8	10	0.0	5.0	22nΔ			47m	1.0	0	7	1	74-53N	DL14af
19#	T74LS51B1		TTL	1,3	2.0*	.80Δ	6	22d	0.0	5.0	8.0n			14m%	300m	0	7	2	74LS1N	DL14y
20#	T74LS51D1		TTL	1,3	2.0*	.80Δ	6	22d	0.0	5.0	8.0n			14m%	300m	0	7	2	74LS1N	DL14av
21#	T74LS54B1		TTL	1,3	2.0*	.80Δ	10	22d	0.0	5.0	10n			10m%	300m	0	7	1	74LS4N	DL14y
22#	T74LS54D1		TTL	1,3	2.0*	.80Δ	10	22d	0.0	5.0	10n			10m%	300m	0	7	1	74LS4N	DL14av
23#	T74LS55B1		TTL	1,3	2.0*	.80Δ	8	5	0.0	5.0	10u			6.5m%	300m	0	7	1	74LS5N	DL14y
24#	T74LS55D1		TTL	1,3	2.0*	.80Δ	8	5	0.0	5.0	10u			6.5m%	300m	0	7	1	74LS5N	DL14av
25	N8846A		TTL	1,3	2.6*	.40ΔC	11	20	0	5	13nΔ			49m	600m	0	7	1	74H53N	TO116
26	N8848F		TTL	1,3	2.6*	.40ΔC	4	20	0.0	5.0	13nΔ			49m	600m	0	7	1	74H53N	DL14ad
27	N8848J		TTL	1,3	2.6*	.40ΔC	11	20	0	5	13nΔ			49m	600m	0	7	1	54H53W	TO88
28	S8848A		TTL	1,3	2.6*	.40ΔC	11	20	0	5	13nΔ			49m	600m	5	5	1	74H53N	TO116
29	S8848F		TTL	1,3	2.6*	.40ΔC	11	20	0.0	5.0	13nΔ			49m	600m	5	5	1	74H53N	DL14ad
30	S8848J		TTL	1,3	2.6*	.40ΔC	11	20	0	5	13nΔ			49m	600m	5	5	1	54H53W	TO88
31#	K155LN4		TTL	1,E	0	0	6	0	0	5.0	20nΔ	30n	10n	400m	300m	1	7	6		DL14cz
32#	HD74LS51		TTL	128	2.0*	.80Δ	10	0	0.0	5.0	20nΔ			400m	300m	2	7	2		DL14cz
33#	HD74LS51P		TTL	128	2.0*	.80Δ	10	0	0.0	5.0	20nΔ			400m	300m	2	7	2		DL14cz
34#	HD74LS54		TTL	128	2.0*	.80Δ	10	0	0.0	5.0	20nΔ			400m	300m	2	7	4		DL14cz
35#	HD74LS54P		TTL	128	2.0*	.80Δ	10	0	0.0	5.0	20nΔ			400m	300m	2	7	4		DL14cz
36#	HD74LS55		TTL	128	2.0*	.80Δ	8	0	0.0	5.0	20nΔ			400m	300m	2	7	2		DL14cz
37#	HD74LS55P		TTL	128	2.0*	.80Δ	8	0	0.0	5.0	20nΔ			400m	300m	2	7	2		DL14cz
38	MC54F64(A)		TTL	138	2.0	0.8	11	0	0.0	5.0	8.0n					5	5	4	74S64	DL14cj
39	MC54F64N(A)		TTL	138	2.0	0.8	11	0	0.0	5.0	8.0n					5	5	4	74S64	DL14dg
40	MC74F64(A)		TTL	138	2.0	0.8	11	0	0.0	5.0	7.0n					5	5	4	74S64	DL14cj
41	MC74F64N(A)		TTL	138	2.0	0.8	11	0	0.0	5.0	7.0n					5	5	4	74S64	DL14dg
42	SN54AS800J		TTL	15	2.0	0.8	0	0	0.0	7.0						5	5	3	G15-01	DL20b
43	SN74AS800J		TTL	15	2.0	0.8	0	0	0.0	7.0						0	7	3	74AS800	DL20b
44	SN74AS800N		TTL	15	2.0	0.8	0	0	0.0	7.0						0	7	3	74AS800	DL20a
45	SN54AS802J		TTL	17	2.0	0.8	0	0	0.0	7.0						5	5	3	G17-06	DL20b
46	SN74AS802J		TTL	17	2.0	0.8	0	0	0.0	7.0						0	7	3	74AS802	DL20b
47	SN74AS802N		TTL	17	2.0	0.8	0	0	0.0	7.0						0	7	3	74AS802	DL20a
48	54LS32DM		TTL	2	2.0*	.70Δ	2	2.5	0.0	5.0	7.0n			49m%	300m	5	5	4	74-32N	TO116
49	54LS32FM		TTL	2	2.0*	.70Δ	2	2.5	0.0	5.0	7.0n			49m%	300m	5	5	4	54-32W	TO86
50	JANM38510/30501BAA		TTL	2	2.0*	.70Δ	2	11d	0.0	5.5	35nΔ			55m	300m*	5	5	4	54-32W	FP115
51	JANM38510/30501BAB		TTL	2	2.0*	.70Δ	2	11d	0.0	5.5	35nΔ			55m	300m*	5	5	4	54-32W	FP115
52	JANM38510/30501BAC		TTL	2	2.0*	.70Δ	2	11d	0.0	5.5	35nΔ			55m	300m*	5	5	4	54-32W	FP115
53	JANM38510/30501BCA		TTL	2	2.0*	.70Δ	2	11d	0.0	5.5	35nΔ			55m	300m*	5	5	4	54-32W	FP115
54	JANM38510/30501BCB		TTL	2	2.0*	.70Δ	2	11d	0.0	5.5	35nΔ			55m	300m*	5	5	4	74-32N	DL14bo
55	JANM38510/30501BCC		TTL	2	2.0*	.70Δ	2	11d	0.0	5.5	35nΔ			55m	300m*	5	5	4	74-32N	DL14bo
56	JANM38510/30501BDA		TTL	2	2.0*	.70Δ	2	11d	0.0	5.5	35nΔ			55m	300m*	5	5	4	74-32N	DL14bo
57	JANM38510/30501BDB		TTL	2	2.0*	.70Δ	2	11d	0.0	5.5	35nΔ			55m	300m*	5	5	4	54-32W	FP116
58	JANM38510/30501BDC		TTL	2	2.0*	.70Δ	2	11d	0.0	5.5	35nΔ			55m	300m*	5	5	4	54-32W	FP116
59	JANM38510/30501CAA		TTL	2	2.0*	.70Δ	2	11d	0.0	5.5	35nΔ			55m	300m*	5	5	4	54-32W	FP116
60	JANM38510/30501CAB		TTL	2	2.0*	.70Δ	2	11d	0.0	5.5	35nΔ			55m	300m*	5	5	4	54-32W	FP115
61	JANM38510/30501CAC		TTL	2	2.0*	.70Δ	2	11d	0.0	5.5	35nΔ			55m	300m*	5	5	4	54-32W	FP115
62	JANM38510/30501CCA		TTL	2	2.0*	.70Δ	2	11d	0.0	5.5	35nΔ			55m	300m*	5	5	4	54-32W	FP115
63	JANM38510/30501CCB		TTL	2	2.0*	.70Δ	2	11d	0.0	5.5	35nΔ			55m	300m*	5	5	4	74-32N	DL14bo
64	JANM38510/30501CCC		TTL	2	2.0*	.70Δ	2	11d	0.0	5.5	35nΔ			55m	300m*	5	5	4	74-32N	DL14bo
65	JANM38510/30501CDA		TTL	2	2.0*	.70Δ	2	11d	0.0	5.5	35nΔ			55m	300m*	5	5	4	74-32N	DL14bo
66	JANM38510/30501CDB		TTL	2	2.0*	.70Δ	2	11d	0.0	5.5	35nΔ			55m	300m*	5	5	4	54-32W	FP116
67	JANM38510/30501CDC		TTL	2	2.0*	.70Δ	2	11d	0.0	5.5	35nΔ			55m	300m*	5	5	4	54-32W	FP116
68	S54LS32F		TTL	2	2.0*	.70Δ	2	11d	0.0	5.5	35nΔ			55m	300m*	5	5	4	54-32W	FP116
69	S54LS32W		TTL	2	2.0*	.70Δ	2	11d	0.0	5.5	35nΔ			49m	300m*	5	5	4	74-32N	DL14bh
70	SN54LS32J		TTL	2	2.0*	.70Δ	2	11	0.0	5.0	22nΔ			49m	1.0 *	5	5	4	74-32N	DL14af
71	SN54LS32W		TTL	2	2.0*	.70Δ	2	11	0.0	5.0	22nΔ			49m	1.0 *	5	5	4	54-32W	FP97a
72#	T54LS32D2		TTL	2	2.0*	.70Δ	2	11d	0.0	5.0	7.0n			49m%	300m	5	5	4	74-32N	DL14av
73	54F32DM		TTL	2	2.0*	.80Δ	2	12	0.0	5.0	5.5n			78m		5	5	4	74-32N	TO116
74	54F32FM		TTL	2	2.0*	.80Δ	2	12	0.0	5.0	5.5n			78m		5	5	4	54-32W	FP21h
75	54S32DM		TTL	2	2.0*	.80Δ	2	25	0.0	5.0	15nΔ					5	5	4	74-32N	DL14bf
76	54S32FM		TTL	2	2.0*	.80Δ	2	25	0.0	5.0	15nΔ					5</				

5. GATES

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC (4) LOGIC (5) TYPE NO.

LINE NO.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN IN	FAN OUT	POWER SUPPLY	PROPAGATION DELAY	MAXIMUM		MAX. OPER. POWER DISS.	MAX. NOISE REJECT	OPER. TEMP. RANGE	CKTS PER MOD	DRAWINGS			
					3 MIN. (V)	4 MAX. (V)					RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE		
1#	M74LS32P		TTL	2	2.0*	.80Δ	2	20	0.0	5.0	11nΔ		20m†	400m*	2	7	4	74-32N	DL14cf	
2	JANM38510/16101BCA		TTL	2	2.0*	.80Δ	2	10	0.0	5.5	27nΔ		210m	400m*	5	C	4	74-32N	DL14bo	
3	JANM38510/16101BCB		TTL	2	2.0*	.80Δ	2	10	0.0	5.5	27nΔ		210m	400m*	5	C	4	74-32N	DL14bo	
4	JANM38510/16101BDA		TTL	2	2.0*	.80Δ	2	10	0.0	5.5	27nΔ		210m	400m*	5	C	4	54-32W	FP116	
5	JANM38510/16101BDB		TTL	2	2.0*	.80Δ	2	10	0.0	5.5	27nΔ		210m	400m*	5	C	4	54-32W	FP116	
6	JANM38510/16101CCA		TTL	2	2.0*	.80Δ	2	10	0.0	5.5	27nΔ		210m	400m*	5	C	4	74-32N	DL14bo	
7	JANM38510/16101CCB		TTL	2	2.0*	.80Δ	2	10	0.0	5.5	27nΔ		210m	400m*	5	C	4	74-32N	DL14bo	
8	JANM38510/16101CDA		TTL	2	2.0*	.80Δ	2	10	0.0	5.5	27nΔ		210m	400m*	5	C	4	54-32W	FP116	
9	JANM38510/16101CDB		TTL	2	2.0*	.80Δ	2	10	0.0	5.5	27nΔ		210m	400m*	5	C	4	54-32W	FP116	
10#	MB74LS32		TTL	2	2.0*	.80Δ	2	20	0.0	5.0	22nΔ		49m	1.0 *	2	7	4	74-32N	DL14ai	
11#	MB74LS32M		TTL	2	2.0*	.80Δ	2	20	0.0	5.0	22nΔ		49m	1.0 *	2	7	4	74-32N	DL14bn	
12#	N74F32N		TTL	2	2.0	0.8	2	20	0.5	7.0	6.6nΔ	2.5n	49m	1.0 *	0	7	4	74-32	DL14Z	
13#	N74LS32D		TTL	2	2.0*	0.8Δ	2	20	0.0	5.0	22nΔ		49m	1.0 *	0	7	4	74-32N	DL14bZ	
14	N74LS32N		TTL	2	2.0*	.80Δ	2	20	0.0	5.0	22nΔ		49m	1.0	0	7	4	74-32N	DL14br	
15#	N74S32D		TTL	2	2.0*	0.8Δ	2	20	0.0	5.0	22nΔ		49m	1.0	0	7	4	74-32N	DL14bh	
16	N74S32N		TTL	2	2.0*	.80Δ	2	10	0.0	5.0	7.0nΔ		340m	1.0	0	7	4	74-32N	DL14br	
17	N7432F		TTL	2	2.0*	.80Δ	2	10	0.0	5.0	22nΔ		190m	1.0 †	0	7	4	74-32N	DL14bh	
18	N7432N		TTL	2	2.0*	.80Δ	2	10	0.0	5.0	22nΔ		190m	1.0	0	7	4	74-32N	DL14br	
19#	S54F32F		TTL	2	2.0	0.8	2	20	-0.5	7.0	5.6nΔ		49m	1.0	5	C	4	74-32	DL14o	
20#	S54F32W		TTL	2	2.0	0.8	2	20	-0.5	7.0	5.6nΔ		49m	1.0	5	C	4	54-32	FP153	
21	S54S32F		TTL	2	2.0*	.80Δ	2	10	0.0	5.0	7.0nΔ		340m	1.0	5	C	4	74-32N	DL14bh	
22	S54S32W		TTL	2	2.0*	.80Δ	2	10	0.0	5.0	7.0nΔ		340m	1.0	5	C	4	54-32W	FP39e	
23	S5432F		TTL	2	2.0*	.80Δ	2	20	0.0	5.0	22nΔ		190m	1.0 †	5	C	4	74-32N	DL14bh	
24	S5432W		TTL	2	2.0*	.80Δ	2	20	0.0	5.0	22nΔ		190m	1.0 †	5	C	4	54-32W	FP39e	
25	S5486F		TTL	2	2.0*	.80Δ	2	10	0.0	5.0	30nΔ		215m	1.0 †	5	C	4	74-86N	DL14bh	
26	S5486W		TTL	2	2.0*	.80Δ	2	10	0.0	5.0	30nΔ		215m	1.0 †	5	C	4	54-86W	FP47g	
27	SN54ALS32J#mil		TTL	2	2.0	0.8	8	4	0	7.0	16n			1.0	5	C	6	G02-193	DL14c	
28	SN54AS832J		TTL	2	2.0	0.8	8	4	0	7.0				1.0	5	C	6	G02-233	DL20b	
29	SN54S32J		TTL	2	2.0*	.80Δ	2	10	0.0	5.0	7.0nΔ		340m	1.0	5	C	4	74-32N	DL14af	
30	SN54S32W		TTL	2	2.0*	.80Δ	2	10	0.0	5.0	7.0nΔ		340m	1.0	5	C	4	54-32W	MO004AA	
31	SN74ALS32J		TTL	2	2.0	0.8	8	4	0	7.0	14n			1.0	5	C	4	74-32N	DL14c	
32	SN74AS832J		TTL	2	2.0	0.8	8	4	0	7.0				1.0	5	C	6	74AS832	DL20b	
33	SN74AS832N		TTL	2	2.0	0.8	8	4	0	7.0				1.0	5	C	6	74AS832	DL20a	
34	SN74LS32J		TTL	2	2.0*	.80Δ	2	22	0.0	5.0	22nΔ		49m	1.0 *	0	7	4	74-32N	DL14af	
35	SN74LS32N		TTL	2	2.0*	.80Δ	2	22	0.0	5.0	22nΔ		49m	1.0 *	0	7	4	74-32N	DL14r	
36	SN74S32J		TTL	2	2.0*	.80Δ	2	10	0.0	5.0	7.0nΔ		340m	1.0	0	7	4	74-32N	DL14af	
37	SN74S32N		TTL	2	2.0*	.80Δ	2	10	0.0	5.0	7.0nΔ		340m	1.0	0	7	4	74-32N	DL14r	
38	SN5432J		TTL	2	2.0*	.80Δ	2	20	0.0	5.0	22nΔ		190m	1.0	5	C	4	74-32N	DL14af	
39	SN5432W		TTL	2	2.0*	.80Δ	2	20	0.0	5.0	22nΔ		190m	1.0	5	C	4	54-32W	MO004AA	
40	SN7432J		TTL	2	2.0*	.80Δ	2	20	0.0	5.0	22nΔ		190m	1.0	0	7	4	74-32N	DL14af	
41	SN7432N		TTL	2	2.0*	.80Δ	2	20	0.0	5.0	22nΔ		190m	1.0	0	7	4	74-32N	DL14r	
42#	T74LS32B1		TTL	2	2.0*	.80Δ	2	22d	0.0	5.0	7.0n		49m% 300m	1.0	0	7	4	74-32N	DL14y	
43#	T74LS32D1		TTL	2	2.0*	.80Δ	2	22d	0.0	5.0	7.0n		49m% 300m	1.0	0	7	4	74-32N	DL14av	
44#	ZN5432E		TTL	2	2.0*	.80Δ	2	20	0.0	5.0	22nΔ		190m%	1.0	5	C	4	74-32N	TO116	
45#	ZN5432J		TTL	2	2.0*	.80Δ	2	20	0.0	5.0	22nΔ		190m%	1.0	5	C	4	74-32N	DL14ap	
46#	ZN7432E		TTL	2	2.0*	.80Δ	2	20	0.0	5.0	22nΔ		190m%	1.0	0	7	4	74-32N	TO116	
47#	ZN7432J		TTL	2	2.0*	.80Δ	2	20	0.0	5.0	22nΔ		190m%	1.0	0	7	4	74-32N	DL14ap	
48#	K155LL1		TTL	2	2.4	0.4	8	2	0	8.0		22n	15n		1	4	2			
49#	LC4071B		TTL	2	2.5	1.5Δ	8	2	0	8.0	125n	200n	200n	300m		1	8	2	G02-193	DL14h
50	RG52CJ		TTL	2	3.1*	.40Δ	11	12	0.0	5.0	23nΔ	8.0n	6.0n	30m†	900m	0	7	1	G02-18	FP52j
51	RG52CK		TTL	2	3.1*	.40Δ	11	12	0.0	5.0	23nΔ	8.0n	6.0n	30m†	900m	0	7	1	G02-18	FP52k
52	RG52DC		TTL	2	3.1*	.40Δ	11	12	0.0	5.0	23nΔ	8.0n	6.0n	30m†	900m	0	7	1	G02-18	DL14be
53	RG53CJ		TTL	2	3.1*	.40Δ	11	6	0.0	5.0	23nΔ	8.0n	6.0n	30m†	900m	0	7	1	G02-18	FP52j
54	RG53CK		TTL	2	3.1*	.40Δ	11	6	0.0	5.0	23nΔ	8.0n	6.0n	30m†	900m	0	7	1	G02-18	FP52k
55	RG53DC		TTL	2	3.1*	.40Δ	11	6	0.0	5.0	23nΔ	8.0n	6.0n	30m†	900m	0	7	1	G02-18	DL14be
56	RG50CJ		TTL	2	3.2*	.40Δ	11	15	0.0	5.0	23nΔ	8.0n	6.0n	30m†	900m	5	C	1	G02-18	FP52j
57	RG50CK		TTL	2	3.2*	.40Δ	11	15	0.0	5.0	23nΔ	8.0n	6.0n	30m†	900m	5	C	1	G02-18	FP52k
58	RG50DC		TTL	2	3.2*	.40Δ	11	15	0.0	5.0	23nΔ	8.0n	6.0n	30m†	900m	5	C	1	G02-18	DL14be
59	RG51CJ		TTL	2	3.2*	.40Δ	11	7	0.0	5.0	23nΔ	8.0n	6.0n	30m†	900m	5	C	1	G02-18	FP52j
60	RG51CK		TTL	2	3.2*	.40Δ	11	7	0.0	5.0	23nΔ	8.0n	6.0n	30m†	900m	5	C	1	G02-18	FP52k
61	RG51DC		TTL	2	3.2*	.40Δ	11	7	0.0	5.0	23nΔ	8.0n	6.0n	30m†	900m	5	C	1	G02-18	DL14be
62	RG70CJ		TTL	2	3.4	.20	4	15	0.0	5.0	12n			40m†	1.1	5	C	2	G01-156	FP52j
63	RG70CK		TTL	2	3.4	.20	4	15	0.0	5.0	12n			40m†	1.1	5	C	2	G01-156	FP52k
64	RG70DC		TTL	2	3.4	.20	4	15	0.0	5.0	12n			40m†	1.1	5	C	2	G01-156	DL14be
65	RG71CJ		TTL	2	3.4	.20	4	7	0.0	5.0	12n			40m†	1.1	5	C	2	G01-156	FP52j
66	RG71CK		TTL	2	3.4	.20	4	7	0.0	5.0	12n			40m†	1.1	5	C	2	G01-156	FP52k
67	RG71DC		TTL	2	3.4	.20	4	7	0.0	5.0	12n			40m†	1.1	5	C	2	G01-156	DL14be
68	RG72CJ		TTL	2	3.4	.20	4	12	0.0	5.0	12n			40m†	1.1	0	7	2	G01-156	FP52j
69	RG72CK		TTL	2	3.4	.20	4	12	0.0	5.0	12n			40m†	1.1	0	7	2	G01-156	FP52k
70	RG72DC		TTL	2	3.4	.20	4	12	0.0	5.0	12n			40m†	1.1	0	7	2	G01-156	DL14be
71	RG73CJ		TTL	2	3.4	.20	4	6	0.0	5.0	12n			40m†	1.1	0	7	2	G01-156	FP52j
72	RG73CK		TTL	2	3.4	.20	4	6	0.0	5.0	12n			40m†	1.1	0	7	2	G01-156	FP52k
73	RG73DC		TTL	2	3.4	.20	4	6	0.0	5.0	12n			40m†	1.1	0	7	2	G01-156	DL14be
74	RG100CJ		TTL	2	3.4	.20	9	15	0.0	5.0	12n			75m†	1.1	5	C	3	G02-19	FP52j
75	RG100CK		TTL	2	3.4	.20	9	15	0.0	5.0	12n			75m†	1.1	5	C	3	G02-19	FP52k
76	RG100DC		TTL	2	3.4	.20	9	15	0.0	5.0	12n			75m†	1.1	5	C	3	G02-19	DL14be
77	RG101CJ		TTL	2	3.4	.20	9	7	0.0	5.0	12n			75m†	1.1	5	C	3	G02-19	FP52j
78	RG101CK		TTL	2	3.4	.20</														

5. GATES

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC (4) LOGIC (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN		POWER SUPPLY SPAN		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS		
					3 | MIN. (V)	4 | MAX. (V)	IN	OUT MAX.	NEG.	POS		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE	
1	RG211DC		TTL	2	3.5	20	8	6	0.0	5.0	7.0n			60mt	1.0	5	C	2	G01-163	DL14be
2	RG212CJ		TTL	2	3.5	20	8	9	0.0	5.0	7.0n			60mt	1.0	0	7	2	G01-163	FP52j
3	RG212CK		TTL	2	3.5	20	8	9	0.0	5.0	7.0n			60mt	1.0	0	7	2	G01-163	FP52k
4	RG212DC		TTL	2	3.5	20	8	9	0.0	5.0	7.0n			60mt	1.0	0	7	2	G01-163	DL14be
5	RG213CJ		TTL	2	3.5	20	8	5	0.0	5.0	7.0n			60mt	1.0	0	7	2	G01-163	FP52j
6	RG213CK		TTL	2	3.5	20	8	5	0.0	5.0	7.0n			60mt	1.0	0	7	2	G01-163	FP52k
7	RG213DC		TTL	2	3.5	20	8	5	0.0	5.0	7.0n			60mt	1.0	0	7	2	G01-163	DL14be
8	RG230CJ		TTL	2	3.5	20	5		0.0	5.0	2.0n			28mt	1.0	5	C	4	G06-109	FP52j
9	RG230CK		TTL	2	3.5	20	5		0.0	5.0	2.0n			28mt	1.0	5	C	4	G06-109	FP52k
10	RG230DC		TTL	2	3.5	20	5		0.0	5.0	2.0n			28mt	1.0	5	C	4	G06-109	DL14be
11	RG231CJ		TTL	2	3.5	20	5		0.0	5.0	2.0n			28mt	1.0	5	C	4	G06-109	FP52j
12	RG231CK		TTL	2	3.5	20	5		0.0	5.0	2.0n			28mt	1.0	5	C	4	G06-109	FP52k
13	RG231DC		TTL	2	3.5	20	5		0.0	5.0	2.0n			28mt	1.0	5	C	4	G06-109	DL14be
14	RG232CJ		TTL	2	3.5	20	5		0.0	5.0	2.0n			28mt	1.0	0	7	4	G06-109	FP52j
15	RG232CK		TTL	2	3.5	20	5		0.0	5.0	2.0n			28mt	1.0	0	7	4	G06-109	FP52k
16	RG232DC		TTL	2	3.5	20	5		0.0	5.0	2.0n			28mt	1.0	0	7	4	G06-109	DL14be
17	RG233CJ		TTL	2	3.5	20	5		0.0	5.0	2.0n			28mt	1.0	0	7	4	G06-109	FP52j
18	RG233CK		TTL	2	3.5	20	5		0.0	5.0	2.0n			28mt	1.0	0	7	4	G06-109	FP52k
19	RG233DC		TTL	2	3.5	20	5		0.0	5.0	2.0n			28mt	1.0	0	7	4	G06-109	DL14be
20	RG250CJ		TTL	2	3.5	20	9	11	0.0	5.0	8.0n			160mt	1.0	5	C	4	G01-164	FP52j
21	RG250CK		TTL	2	3.5	20	9	11	0.0	5.0	8.0n			160mt	1.0	5	C	4	G01-164	FP52k
22	RG250DC		TTL	2	3.5	20	9	11	0.0	5.0	8.0n			160mt	1.0	5	C	4	G01-164	DL14be
23	RG251CJ		TTL	2	3.5	20	9	6	0.0	5.0	8.0n			160mt	1.0	5	C	4	G01-164	FP52j
24	RG251CK		TTL	2	3.5	20	9	6	0.0	5.0	8.0n			160mt	1.0	5	C	4	G01-164	FP52k
25	RG251DC		TTL	2	3.5	20	9	6	0.0	5.0	8.0n			160mt	1.0	5	C	4	G01-164	DL14be
26	RG252CJ		TTL	2	3.5	20	9	9	0.0	5.0	8.0n			160mt	1.0	0	7	4	G01-164	FP52j
27	RG252CK		TTL	2	3.5	20	9	9	0.0	5.0	8.0n			160mt	1.0	0	7	4	G01-164	FP52k
28	RG252DC		TTL	2	3.5	20	9	9	0.0	5.0	8.0n			160mt	1.0	0	7	4	G01-164	DL14be
29	RG253CJ		TTL	2	3.5	20	9	5	0.0	5.0	8.0n			160mt	1.0	0	7	4	G01-164	FP52j
30	RG253CK		TTL	2	3.5	20	9	5	0.0	5.0	8.0n			160mt	1.0	0	7	4	G01-164	FP52k
31	RG253DC		TTL	2	3.5	20	9	5	0.0	5.0	8.0n			160mt	1.0	0	7	4	G01-164	DL14be
32	RG270CJ		TTL	2	3.5	20	4		0.0	5.0	1.0n			28mt	1.0	5	C	2	G06-111	FP52j
33	RG270CK		TTL	2	3.5	20	4		0.0	5.0	1.0n			28mt	1.0	5	C	2	G06-111	FP52k
34	RG270DC		TTL	2	3.5	20	4		0.0	5.0	1.0n			28mt	1.0	5	C	2	G06-111	DL14be
35	RG271CJ		TTL	2	3.5	20	4		0.0	5.0	1.0n			28mt	1.0	5	C	2	G06-111	FP52j
36	RG271CK		TTL	2	3.5	20	4		0.0	5.0	1.0n			28mt	1.0	5	C	2	G06-111	FP52k
37	RG271DC		TTL	2	3.5	20	4		0.0	5.0	1.0n			28mt	1.0	5	C	2	G06-111	DL14be
38	RG272CJ		TTL	2	3.5	20	4		0.0	5.0	1.0n			28mt	1.0	0	7	2	G06-111	FP52j
39	RG272CK		TTL	2	3.5	20	4		0.0	5.0	1.0n			28mt	1.0	0	7	2	G06-111	FP52k
40	RG272DC		TTL	2	3.5	20	4		0.0	5.0	1.0n			28mt	1.0	0	7	2	G06-111	DL14be
41	RG273CJ		TTL	2	3.5	20	4		0.0	5.0	1.0n			28mt	1.0	0	7	2	G06-111	FP52j
42	RG273CK		TTL	2	3.5	20	4		0.0	5.0	1.0n			28mt	1.0	0	7	2	G06-111	FP52k
43	RG273DC		TTL	2	3.5	20	4		0.0	5.0	1.0n			28mt	1.0	0	7	2	G06-111	DL14be
44	RG300CJ		TTL	2	3.5	20	9	11	0.0	5.0	7.0n			105mt	1.0	5	C	3	G01-159	FP52j
45	RG300CK		TTL	2	3.5	20	9	11	0.0	5.0	7.0n			105mt	1.0	5	C	3	G01-159	FP52k
46	RG300DC		TTL	2	3.5	20	9	11	0.0	5.0	7.0n			105mt	1.0	5	C	3	G01-159	DL14be
47	RG301CJ		TTL	2	3.5	20	9	6	0.0	5.0	7.0n			105mt	1.0	5	C	3	G01-159	FP52j
48	RG301CK		TTL	2	3.5	20	9	6	0.0	5.0	7.0n			105mt	1.0	5	C	3	G01-159	FP52k
49	RG301DC		TTL	2	3.5	20	9	6	0.0	5.0	7.0n			105mt	1.0	5	C	3	G01-159	DL14be
50	RG302CJ		TTL	2	3.5	20	9	9	0.0	5.0	7.0n			105mt	1.0	0	7	3	G01-159	FP52j
51	RG302CK		TTL	2	3.5	20	9	9	0.0	5.0	7.0n			105mt	1.0	0	7	3	G01-159	FP52k
52	RG302DC		TTL	2	3.5	20	9	9	0.0	5.0	7.0n			105mt	1.0	0	7	3	G01-159	DL14be
53	RG303CJ		TTL	2	3.5	20	9	5	0.0	5.0	7.0n			105mt	1.0	0	7	3	G01-159	FP52j
54	RG303CK		TTL	2	3.5	20	9	5	0.0	5.0	7.0n			105mt	1.0	0	7	3	G01-159	FP52k
55	RG303DC		TTL	2	3.5	20	9	5	0.0	5.0	7.0n			105mt	1.0	0	7	3	G01-159	DL14be
56	RG310CJ		TTL	2	3.5	20	4	11	0.0	5.0	7.0n			60mt	1.0	5	C	2	G01-158	FP52j
57	RG310CK		TTL	2	3.5	20	4	11	0.0	5.0	7.0n			60mt	1.0	5	C	2	G01-158	FP52k
58	RG310DC		TTL	2	3.5	20	4	11	0.0	5.0	7.0n			60mt	1.0	5	C	2	G01-158	DL14be
59	RG311CJ		TTL	2	3.5	20	4	6	0.0	5.0	7.0n			60mt	1.0	5	C	2	G01-158	FP52j
60	RG311CK		TTL	2	3.5	20	4	6	0.0	5.0	7.0n			60mt	1.0	5	C	2	G01-158	FP52k
61	RG311DC		TTL	2	3.5	20	4	6	0.0	5.0	7.0n			60mt	1.0	5	C	2	G01-158	DL14be
62	RG312CJ		TTL	2	3.5	20	4	9	0.0	5.0	7.0n			60mt	1.0	0	7	2	G01-158	FP52j
63	RG312CK		TTL	2	3.5	20	4	9	0.0	5.0	7.0n			60mt	1.0	0	7	2	G01-158	FP52k
64	RG312DC		TTL	2	3.5	20	4	9	0.0	5.0	7.0n			60mt	1.0	0	7	2	G01-158	DL14be
65	RG313CJ		TTL	2	3.5	20	4	5	0.0	5.0	7.0n			60mt	1.0	0	7	2	G01-158	FP52j
66	RG313CK		TTL	2	3.5	20	4	5	0.0	5.0	7.0n			60mt	1.0	0	7	2	G01-158	FP52k
67	RG313DC		TTL	2	3.5	20	4	5	0.0	5.0	7.0n			60mt	1.0	0	7	2	G01-158	DL14be
68	SP334A		TTL	2	3.8*	.6ΔC	5	11	0	5.5	35n			44mt	1.7	0	7	2	G02-78b	TO116
69	SP374A		TTL	2	3.8*	.6ΔC	3	11	0	5.5	35n			44mt	1.7	0	7	3	G02-78c	TO116
70	SP375A		TTL	2	3.8*	.6ΔC	3	11	0	5.5	35n			44mt	1.7	0	7	3	G02-78d	TO116
71	SP384A		TTL	2	3.8*	.6ΔC	2	11	0	5.5	35n			44mt	1.7	0	7	4	G02-78e	TO116
72	54S135FM		TTL	2,3	2.0*	.80Δ	4	25	0.0	5.0	13nΔ			495m		5	C	8		FP93c
73	74S135PC		TTL	2,3	2.0*	.80Δ	4	25	0.0	5.0	13nΔ			495m		0	7	8		
74#	K155LD1		TTL	2,6			4			5.0						1	7	2		
75#	K155LD3		TTL	2,6			8			5.0						1	7	1		
76	S8242F		TTL	3		.40C	2	15	0.0	5.0	28nΔ			238m		5	C	4	G03-242	DL14bh
77	9015DM		TTL	3	1.7*	.90Δ	4	11	0.0	5.0	7.0n			80mt		5	C	4	G03-237	DL16t
78	9015FM		TTL	3	1.7*	.90Δ	4	11	0.0	5.0	7.0n			80mt		5	C	4	G03-237	FP47b
79	9015DC		TTL	3	1.8*	.85Δ	4	11	0.0	5.0	8.0n			80mt		0	7			

5. GATES

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC (4) LOGIC (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN IN		POWER SUPPLY SPAN		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS		
					3 MIN. '1' (V)	4 MAX. '0' (V)	IN	OUT MAX.	NEG. (V)	POS (V)		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE	
1	JANM38510/30301BAC		TTL	3	2.0*	.70Δ	2	11d	0.0	5.5	30nΔ			30m	300m*	5	C	4	54S02W	FP115
2	JANM38510/30301BCA		TTL	3	2.0*	.70Δ	2	11d	0.0	5.5	30nΔ			30m	300m*	5	C	4	74-02N	DL14bo
3	JANM38510/30301BCB		TTL	3	2.0*	.70Δ	2	11d	0.0	5.5	30nΔ			30m	300m*	5	C	4	74-02N	DL14bo
4	JANM38510/30301BCC		TTL	3	2.0*	.70Δ	2	11d	0.0	5.5	30nΔ			30m	300m*	5	C	4	74-02N	DL14bo
5	JANM38510/30301BDA		TTL	3	2.0*	.70Δ	2	11d	0.0	5.5	30nΔ			30m	300m*	5	C	4	54S02W	FP116
6	JANM38510/30301BDB		TTL	3	2.0*	.70Δ	2	11d	0.0	5.5	30nΔ			30m	300m*	5	C	4	54S02W	FP116
7	JANM38510/30301CAA		TTL	3	2.0*	.70Δ	2	11d	0.0	5.5	30nΔ			30m	300m*	5	C	4	54S02W	FP115
8	JANM38510/30301CAB		TTL	3	2.0*	.70Δ	2	11d	0.0	5.5	30nΔ			30m	300m*	5	C	4	54S02W	FP115
9	JANM38510/30301CAC		TTL	3	2.0*	.70Δ	2	11d	0.0	5.5	30nΔ			30m	300m*	5	C	4	54S02W	FP115
10	JANM38510/30301CCA		TTL	3	2.0*	.70Δ	2	11d	0.0	5.5	30nΔ			30m	300m*	5	C	4	74-02N	DL14bo
11	JANM38510/30301CCB		TTL	3	2.0*	.70Δ	2	11d	0.0	5.5	30nΔ			30m	300m*	5	C	4	74-02N	DL14bo
12	JANM38510/30301CCC		TTL	3	2.0*	.70Δ	2	11d	0.0	5.5	30nΔ			30m	300m*	5	C	4	74-02N	DL14bo
13	JANM38510/30301CDA		TTL	3	2.0*	.70Δ	2	11d	0.0	5.5	30nΔ			30m	300m*	5	C	4	54S02W	FP116
14	JANM38510/30301CDB		TTL	3	2.0*	.70Δ	2	11d	0.0	5.5	30nΔ			30m	300m*	5	C	4	54S02W	FP116
15	JANM38510/30302BAA		TTL	3	2.0*	.70Δ	3	11d	0.0	5.5	30nΔ			38m	300m*	5	C	3	54-27W	FP115
16	JANM38510/30302BAB		TTL	3	2.0*	.70Δ	3	11d	0.0	5.5	30nΔ			38m	300m*	5	C	3	54-27W	FP115
17	JANM38510/30302BAC		TTL	3	2.0*	.70Δ	3	11d	0.0	5.5	30nΔ			38m	300m*	5	C	3	54-27W	FP115
18	JANM38510/30302BCA		TTL	3	2.0*	.70Δ	3	11d	0.0	5.5	30nΔ			38m	300m*	5	C	3	74-27N	DL14bo
19	JANM38510/30302BCB		TTL	3	2.0*	.70Δ	3	11d	0.0	5.5	30nΔ			38m	300m*	5	C	3	74-27N	DL14bo
20	JANM38510/30302BCC		TTL	3	2.0*	.70Δ	3	11d	0.0	5.5	30nΔ			38m	300m*	5	C	3	74-27N	DL14bo
21	JANM38510/30302BDA		TTL	3	2.0*	.70Δ	3	11d	0.0	5.5	30nΔ			38m	300m*	5	C	3	54-27W	FP116
22	JANM38510/30302BDB		TTL	3	2.0*	.70Δ	3	11d	0.0	5.5	30nΔ			38m	300m*	5	C	3	54-27W	FP116
23	JANM38510/30302CAA		TTL	3	2.0*	.70Δ	3	11d	0.0	5.5	30nΔ			38m	300m*	5	C	3	54-27W	FP115
24	JANM38510/30302CAB		TTL	3	2.0*	.70Δ	3	11d	0.0	5.5	30nΔ			38m	300m*	5	C	3	54-27W	FP115
25	JANM38510/30302CAC		TTL	3	2.0*	.70Δ	3	11d	0.0	5.5	30nΔ			38m	300m*	5	C	3	54-27W	FP115
26	JANM38510/30302CCA		TTL	3	2.0*	.70Δ	3	11d	0.0	5.5	30nΔ			38m	300m*	5	C	3	74-27N	DL14bo
27	JANM38510/30302CCB		TTL	3	2.0*	.70Δ	3	11d	0.0	5.5	30nΔ			38m	300m*	5	C	3	74-27N	DL14bo
28	JANM38510/30302CCC		TTL	3	2.0*	.70Δ	3	11d	0.0	5.5	30nΔ			38m	300m*	5	C	3	74-27N	DL14bo
29	JANM38510/30302CDA		TTL	3	2.0*	.70Δ	3	11d	0.0	5.5	30nΔ			38m	300m*	5	C	3	54-27W	FP116
30	JANM38510/30302CDB		TTL	3	2.0*	.70Δ	3	11d	0.0	5.5	30nΔ			38m	300m*	5	C	3	54-27W	FP116
31	S54LS02F		TTL	3	2.0*	.70Δ	2	10	0.0	5.0	15nΔ			27m	300m*	5	C	4	74-02N	DL14bh
32	S54LS02W		TTL	3	2.0*	.70Δ	2	10	0.0	5.0	15nΔ			27m	300m*	5	C	4	54S02W	FP39e
33	S54LS27F		TTL	3	2.0*	.70Δ	3	11	0.0	5.0	15nΔ			34m	300m*	5	C	3	74-27N	DL14bh
34	S54LS27W		TTL	3	2.0*	.70Δ	3	11	0.0	5.0	15nΔ			34m	300m*	5	C	3	54-27W	FP39e
35	S54LS260F		TTL	3	2.0*	.70Δ	5	10d	0.0	5.0	15nΔ			27m	300m*	5	C	2	74S260N	DL14bh
36	S54LS260W		TTL	3	2.0*	.70Δ	5	10d	0.0	5.0	15nΔ			27m	300m*	5	C	2	54S260W	FP39e
37	SN54L02J		TTL	3	2.0*	.70Δ	2	10	0.0	5.0	60nΔ			1.0m†	1.0	5	C	4	74-02N	DL14af
38	SN54L02W		TTL	3	2.0*	.70Δ	2	10	0.0	5.0	60nΔ			1.0m†	1.0	5	C	4	54-02W	FP52e
39	SN54LS02J		TTL	3	2.0*	.70Δ	2	11	0.0	5.0	15nΔ			27m	1.0 *	5	C	4	74-02N	DL14af
40	SN54LS02W		TTL	3	2.0*	.70Δ	2	11	0.0	5.0	15nΔ			27m	1.0 *	5	C	4	54S02W	FP97a
41	SN54LS27J		TTL	3	2.0*	.70Δ	3	11	0.0	5.0	15nΔ			34m	1.0 *	5	C	3	74-27N	DL14af
42	SN54LS27W		TTL	3	2.0*	.70Δ	3	11	0.0	5.0	15nΔ			34m	1.0 *	5	C	3	54-27W	FP97a
43	SN54LS28J		TTL	3	2.0*	.70Δ	2	33	0.0	5.0	24nΔ			69m	1.0 *	5	C	4	74-02N	DL14af
44	SN54LS28W		TTL	3	2.0*	.70Δ	2	33	0.0	5.0	24nΔ			69m	1.0 *	5	C	4	54S02W	FP97a
45	SN54LS33J		TTL	3	2.0*	.70Δ	2	33	0.0	5.0	32nΔ			69m	1.0 *	5	C	4	74-33N	DL14af
46	SN54LS33W		TTL	3	2.0*	.70Δ	2	33	0.0	5.0	32nΔ			69m	1.0 *	5	C	4	54-33W	FP97a
47	SN54LS260J		TTL	3	2.0*	.70Δ	5	10d	0.0	5.0	12n			28m	300m*	5	C	2	74S260N	DL14ci
48#	T54LS02D2		TTL	3	2.0*	.70Δ	2	11d	0.0	5.0	5.0n			27m%	300m*	5	C	4	74-02N	DL14av
49#	T54LS27D2		TTL	3	2.0*	.70Δ	3	25	0.0	5.0	8u			34m%	300m*	5	C	3	74-27N	DL14av
50#	54F02DM		TTL	3	2.0*	.80Δ	2	12	0.0	5.0	4.8n			65m		5	C	4	74-02N	TO116
51	54F02FM		TTL	3	2.0*	.80Δ	2	12	0.0	5.0	4.8n			65m		5	C	4	54S02W	FP21h
52	54S260DM		TTL	3	2.0*	.80Δ	5	25	0.0	5.0	6.0nΔ			225m		5	C	2	74S260N	DL14bf
53	54S260FM		TTL	3	2.0*	.80Δ	5	25	0.0	5.0	6.0nΔ			225m		5	C	2	54S260W	FP52
54	74F02DC		TTL	3	2.0*	.80Δ	2	12	0.0	5.0	4.8n			65m		0	7	4	74-02N	TO116
55	74F02PC		TTL	3	2.0*	.80Δ	2	12	0.0	5.0	4.8n			65m		0	7	4	74-02N	DL14ce
56	74LS02DC		TTL	3	2.0*	.80Δ	2	5	0.0	5.0	5.0n			27m%	300m	0	7	4	74-02N	TO116
57	74LS02PC		TTL	3	2.0*	.80Δ	2	5	0.0	5.0	5.0n			27m%	300m	0	7	4	74-02N	TO116
58	74LS27DC		TTL	3	2.0*	.80Δ	3	5	0.0	5.0	8.0n			34m%	300m	0	7	3	74-27N	TO116
59	74LS27PC		TTL	3	2.0*	.80Δ	3	5	0.0	5.0	8.0n			34m%	300m	0	7	3	74-27N	TO116
60	74LS33PC		TTL	3	2.0*	.80Δ	2	22d	0.0	5.0	22nΔ			69m%	300m*	0	7	4	74-33N	DL14ce
61	74LS260DC		TTL	3	2.0*	.80Δ	5	22d	0.0	5.0	12nΔ			28m%	300m*	0	7	2	74S260N	TO116
62	74LS260PC		TTL	3	2.0*	.80Δ	5	22d	0.0	5.0	12nΔ			28m%	300m*	0	7	2	74S260N	DL14ce
63	74S02PC		TTL	3	2.0*	.80Δ	2	20	0.0	5.0	20nΔ					0	7	4		DL14ce
64	5402DM		TTL	3	2.0*	.80Δ	2	10	0.0	5.0	15nΔ			135m	1.0	5	C	4	74-02N	TO116
65	5402FM		TTL	3	2.0*	.80Δ	2	20	0.0	5.0	15nΔ			135m	1.0	5	C	4	54-02W	FP52
66	5423FM		TTL	3	2.0*	.80Δ	8		0.0	5.0	22nΔ			95m		5	C	2	54-23W	FP103
67	5425DM		TTL	3	2.0*	.80Δ	8		0.0	5.0	22nΔ			95m		5	C	2	74-25N	TO116
68	5425FM		TTL	3	2.0*	.80Δ	8		0.0	5.0	22nΔ			95m		5	C	2	54-25W	FP21h
69	5427DM		TTL	3	2.0*	.80Δ	3	20	0.0	5.0	15nΔ			130m		5	C	3	74-27N	TO116
70	5427FM		TTL	3	2.0*	.80Δ	3	20	0.0	5.0	15nΔ			130m		5	C	3	54-27W	FP52
71	7402DC		TTL	3	2.0*	.80Δ	2	10	0.0	5.0	15nΔ			135m	1.0	0	7	4	74-02N	TO116
72	7402PC		TTL	3	2.0*	.80Δ	2	10	0.0	5.0	15nΔ			135m	1.0	0	7	4	74-02N	DL14ce
73	7423PC		TTL	3	2.0*	.80Δ	8		0.0	5.0	22n			100m		0	7	2	74-23N	
74	7425DC		TTL	3	2.0*	.80Δ	8		0.0	5.0	22nΔ			95m		0	7	2	74-25N	TO116
75	7425PC		TTL	3	2.0*	.80Δ	8		0.0	5.0	22nΔ			95m		0	7	2	74-25N	DL1

5. GATES

IN ORDER OF:(1)TECHNOLOGY(2)TYPE(3)LOGIC(4)LOGIC(5)TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN IN		POWER SUPPLY SPAN		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS		
					3 MIN. '1' (V)	4 MAX. '0' (V)	IN	OUT MAX.	NEG. (V)	POS. (V)		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE	
1	DM5423W		TTL	3	2.0*	.80Δ	7	0.0	5.0	15nΔ				95m	5	C	2	54-23W	FP88a	
2	DM5425J		TTL	3	2.0*	.80Δ	5	0.0	5.0	15nΔ				95m	5	C	2	74-25N	DL16ai	
3	DM5425W		TTL	3	2.0*	.80Δ	5	0.0	5.0	15nΔ				95m	5	C	2	54-25W	FP88a	
4	DM5427J		TTL	3	2.0*	.80Δ	3	0.0	5.0	15nΔ				130m	5	C	3	74-27N	DL16ai	
5	DM5427W		TTL	3	2.0*	.80Δ	3	0.0	5.0	15nΔ				130m	5	C	3	54-27W	FP88a	
6	DM7402N		TTL	3	2.0*	.80Δ	2	10	0.0	5.0	22nΔ			56m†	400m	0	7	4	74-02N	DL14bt
7	DM7423N		TTL	3	2.0*	.80Δ	7	0.0	5.0	15nΔ				95m	0	7	2	74-23N	DL16bu	
8	DM7425N		TTL	3	2.0*	.80Δ	5	0.0	5.0	15nΔ				95m	0	7	2	74-25N	DL16bu	
9	DM7427N		TTL	3	2.0*	.80Δ	3	0.0	5.0	15nΔ				130m	0	7	3	74-27N	DL16bu	
10#	FJH221-7402		TTL	3	2.0*	.80Δ	2	10	0.0	5.0	10n			57m†	400m	0	7	4	74-02N	DL14s
11#	HD74LS02		TTL	3	2.0*	.80Δ	8	0.0	5.0	15nΔ				400m	300m	2	7	4		DL14cz
12#	HD74LS02P		TTL	3	2.0*	.80Δ	8	0.0	5.0	15nΔ				400m	300m	2	7	4		DL14cz
13#	HD74LS27		TTL	3	2.0*	.80Δ	9	0.0	5.0	15nΔ				400m	300m	2	7	3		DL14cz
14#	HD74LS27P		TTL	3	2.0*	.80Δ	9	0.0	5.0	15nΔ				400m	300m	2	7	3		DL14cz
15#	M74ALS02P		TTL	3	2.0*	0.8		0.0	5.0	12n				22m	2	7	4		74-02n	DL14cf
16#	M74ALS27P		TTL	3	2.0*	0.8		0.0	5.0	15n				22m	2	7	3		74-27n	DL14cf
17#	M74ALS28P		TTL	3	2.0*	0.8		0.0	5.0	8n				44m	2	7	4		G03-289a	DL14cf
18#	M74ALS33P		TTL	3	2.0*	0.8		0.0	5.0	33n				44m	2	7	4		74-33n	DL14cf
19#	M74ALS1002P		TTL	3	2.0*	0.8		0.0	5.0	8n				44m	2	7	4		G03-289a	DL14cf
20#	M74LS02P		TTL	3	2.0*	.80Δ	2	20	0.0	5.0	10nΔ			10m†	400m*	2	7	4	74-02N	DL14cf
21#	M74LS27P		TTL	3	2.0*	.80Δ	3	20	0.0	5.0	13nΔ			13m†	400m*	2	7	3	74-27N	DL14cf
22	JANM38510/00401BAA		TTL	3	2.0*	.80Δ	2	10	0.0	5.5	27nΔ			240m	5	C	4	54-02W	FP115	
23	JANM38510/00401BAB		TTL	3	2.0*	.80Δ	2	10	0.0	5.5	27nΔ			240m	5	C	4	54-02W	FP115	
24	JANM38510/00401BAC		TTL	3	2.0*	.80Δ	2	10	0.0	5.5	27nΔ			240m	5	C	4	54-02W	FP115	
25	JANM38510/00401BCA		TTL	3	2.0*	.80Δ	2	10	0.0	5.5	27nΔ			240m	5	C	4	54-02W	FP115	
26	JANM38510/00401BCB		TTL	3	2.0*	.80Δ	2	10	0.0	5.5	27nΔ			240m	5	C	4	74-02N	DL14bo	
27	JANM38510/00401BDA		TTL	3	2.0*	.80Δ	2	10	0.0	5.5	27nΔ			240m	5	C	4	74-02N	DL14bo	
28	JANM38510/00401BDB		TTL	3	2.0*	.80Δ	2	10	0.0	5.5	27nΔ			240m	5	C	4	54-02W	FP116	
29	JANM38510/00401CAA		TTL	3	2.0*	.80Δ	2	10	0.0	5.5	27nΔ			240m	5	C	4	54-02W	FP116	
30	JANM38510/00401CAB		TTL	3	2.0*	.80Δ	2	10	0.0	5.5	27nΔ			240m	5	C	4	54-02W	FP115	
31	JANM38510/00401CAC		TTL	3	2.0*	.80Δ	2	10	0.0	5.5	27nΔ			240m	5	C	4	54-02W	FP115	
32	JANM38510/00401CCA		TTL	3	2.0*	.80Δ	2	10	0.0	5.5	27nΔ			240m	5	C	4	54-02W	FP115	
33	JANM38510/00401CCB		TTL	3	2.0*	.80Δ	2	10	0.0	5.5	27nΔ			240m	5	C	4	74-02N	DL14bo	
34	JANM38510/00401CDA		TTL	3	2.0*	.80Δ	2	10	0.0	5.5	27nΔ			240m	5	C	4	74-02N	DL14bo	
35	JANM38510/00401CDB		TTL	3	2.0*	.80Δ	2	10	0.0	5.5	27nΔ			240m	5	C	4	54-02W	FP116	
36	JANM38510/00402BEA		TTL	3	2.0*	.80Δ	2	10	0.0	5.5	27nΔ			240m	5	C	4	54-02W	FP116	
37	JANM38510/00402BEB		TTL	3	2.0*	.80Δ	7	10	0.0	5.5	30nΔ			120m	5	C	2	74-23N	DL16o	
38	JANM38510/00402BFA		TTL	3	2.0*	.80Δ	7	10	0.0	5.5	30nΔ			120m	5	C	2	74-23N	DL16o	
39	JANM38510/00402BFB		TTL	3	2.0*	.80Δ	7	10	0.0	5.5	30nΔ			120m	5	C	2	54-23W	FP93b	
40	JANM38510/00402CEA		TTL	3	2.0*	.80Δ	7	10	0.0	5.5	30nΔ			120m	5	C	2	54-23W	FP93b	
41	JANM38510/00402CEB		TTL	3	2.0*	.80Δ	7	10	0.0	5.5	30nΔ			120m	5	C	2	74-23N	DL16o	
42	JANM38510/00402CFA		TTL	3	2.0*	.80Δ	7	10	0.0	5.5	30nΔ			120m	5	C	2	74-23N	DL16o	
43	JANM38510/00403BAA		TTL	3	2.0*	.80Δ	7	10	0.0	5.5	30nΔ			120m	5	C	2	54-23W	FP93b	
44	JANM38510/00403BAB		TTL	3	2.0*	.80Δ	5	10	0.0	5.5	27nΔ			120m	5	C	2	54-25W	FP115	
45	JANM38510/00403BCA		TTL	3	2.0*	.80Δ	5	10	0.0	5.5	27nΔ			120m	5	C	2	54-25W	FP115	
46	JANM38510/00403BCB		TTL	3	2.0*	.80Δ	5	10	0.0	5.5	27nΔ			120m	5	C	2	74-25N	DL14bo	
47	JANM38510/00403CAA		TTL	3	2.0*	.80Δ	5	10	0.0	5.5	27nΔ			120m	5	C	2	74-25N	DL14bo	
48	JANM38510/00403CAB		TTL	3	2.0*	.80Δ	5	10	0.0	5.5	27nΔ			120m	5	C	2	54-25W	FP115	
49	JANM38510/00403CCA		TTL	3	2.0*	.80Δ	5	10	0.0	5.5	27nΔ			120m	5	C	2	74-25N	DL14bo	
50	JANM38510/00403CCB		TTL	3	2.0*	.80Δ	5	10	0.0	5.5	27nΔ			120m	5	C	2	74-25N	DL14bo	
51	JANM38510/00404BAA		TTL	3	2.0*	.80Δ	5	10	0.0	5.5	27nΔ			120m	5	C	2	74-25N	DL14bo	
52	JANM38510/00404BAB		TTL	3	2.0*	.80Δ	3	10	0.0	5.5	27nΔ			180m	5	C	3	54-27W	FP115	
53	JANM38510/00404BCA		TTL	3	2.0*	.80Δ	3	10	0.0	5.5	27nΔ			180m	5	C	2	54-27W	FP115	
54	JANM38510/00404BCB		TTL	3	2.0*	.80Δ	3	10	0.0	5.5	27nΔ			180m	5	C	2	74-27N	DL14bo	
55	JANM38510/00404BDA		TTL	3	2.0*	.80Δ	3	10	0.0	5.5	27nΔ			180m	5	C	3	74-27N	DL14bo	
56	JANM38510/00404BDB		TTL	3	2.0*	.80Δ	3	10	0.0	5.5	27nΔ			180m	5	C	3	54-27W	FP116	
57	JANM38510/00404CAA		TTL	3	2.0*	.80Δ	3	10	0.0	5.5	27nΔ			180m	5	C	3	54-27W	FP116	
58	JANM38510/00404CAB		TTL	3	2.0*	.80Δ	3	10	0.0	5.5	27nΔ			180m	5	C	3	54-27W	FP115	
59	JANM38510/00404CCA		TTL	3	2.0*	.80Δ	3	10	0.0	5.5	27nΔ			180m	5	C	3	54-27W	FP115	
60	JANM38510/00404CCB		TTL	3	2.0*	.80Δ	3	10	0.0	5.5	27nΔ			180m	5	C	3	74-27N	DL14bo	
61	JANM38510/00404CDA		TTL	3	2.0*	.80Δ	3	10	0.0	5.5	27nΔ			180m	5	C	3	74-27N	DL14bo	
62	JANM38510/07301BCA		TTL	3	2.0*	.80Δ	3	10	0.0	5.5	27nΔ			18m	5	C	3	54-27W	FP116	
63	JANM38510/07301BCB		TTL	3	2.0*	.80Δ	2	10	0.0	5.5	9.0nΔ			248m	5	C	4	74-02N	DL14bo	
64	JANM38510/07301BDA		TTL	3	2.0*	.80Δ	2	10	0.0	5.5	9.0nΔ			248m	5	C	4	74-02N	DL14bo	
65	JANM38510/07301BDB		TTL	3	2.0*	.80Δ	2	10	0.0	5.5	9.0nΔ			248m	5	C	4	54S02W	FP116	
			TTL	3	2.0*	.80Δ	2	10	0.0	5.5	9.0nΔ			248m	5	C	4	54S02W	FP116	

5. GATES

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC (4) LOGIC (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		IN	OUT MAX.	POWER SUPPLY		PROPAGATION DELAY (S)	RISE TIME (S)	FALL TIME (S)	MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS		
					3 MIN. (V)	4 MAX. (V)			NEG. (V)	POS (V)								LOGIC OR BLOCK	OUTLINE	
1	JANM38510/07301CCA		TTL	3	2.0*	.80Δ	2	10	0.0	5.5	9.0nΔ			248m		5	C	4	54S02W	FP115
2	JANM38510/07301CCB		TTL	3	2.0*	.80Δ	2	10	0.0	5.5	9.0nΔ			248m		5	C	4	74-02N	DL14bo
3	JANM38510/07301CDA		TTL	3	2.0*	.80Δ	2	10	0.0	5.5	9.0nΔ			248m		5	C	4	54S02W	FP116
4	JANM38510/07301CDB		TTL	3	2.0*	.80Δ	2	10	0.0	5.5	9.0nΔ			248m		5	C	4	54S02W	FP116
5#	M53202P		TTL	3	2.0*	.80Δ	2	10	0.0	5.5	9.0nΔ			248m	1.0	5	C	4	54S02W	FP116
6#	M53225P		TTL	3	2.0*	.80Δ	2	10	0.0	7.0	13n			12m†		0	7	4	74-02N	DL14d
7#	M53227P		TTL	3	2.0*	.80Δ	8	10	0.0	5.0	22n			100m		0	7	2	74-25N	DL14d
8#	MB74LS02		TTL	3	2.0*	.80Δ	3	20	0.0	5.0	15nΔ			137m		0	7	3	74-27N	DL14d
9#	MB74LS02M		TTL	3	2.0*	.80Δ	2	20	0.0	5.0	15nΔ			27m	1.0 *	2	7	4	74-02N	DL14bn
10#	MB74LS27		TTL	3	2.0*	.80Δ	3	20	0.0	5.0	15nΔ			34m	1.0 *	2	7	3	74-27N	DL14ai
11#	MB74LS27M		TTL	3	2.0*	.80Δ	3	20	0.0	5.0	15nΔ			34m	1.0 *	2	7	3	74-27N	DL14bn
12#	MB74LS28		TTL	3	2.0*	.80Δ	2	60	0.0	5.0	24nΔ			69m	1.0 *	2	7	4	74-02N	DL14ai
13#	MB74LS28M		TTL	3	2.0*	.80Δ	2	60	0.0	5.0	24nΔ			69m	1.0 *	2	7	4	74-02N	DL14bn
14#	MB74LS33		TTL	3	2.0*	.80Δ	2	60	0.0	5.0	32nΔ			69m	1.0 *	2	7	4	74-33N	DL14ai
15#	MB74LS33M		TTL	3	2.0*	.80Δ	2	60	0.0	5.0	32nΔ			69m	1.0 *	2	7	4	74-33N	DL14bn
16#	MB417		TTL	3	2.0*	.80Δ	2	70	0.0	5.0	10n			60m†		0	7	4	74-02N	DL14ac
17#	MB417M		TTL	3	2.0*	.80Δ	2	70	0.0	5.0	10n			60m†		0	7	4	74-02N	DL14ac
18#	N74F02F		TTL	3	2.0	0.8			0.5	7.0	6.5nΔ	2.5n	2.5n			0	7	4	74-02	DL14Z
19#	N74F02N		TTL	3	2.0	0.8			0.5	7.0	6.5nΔ	2.5n	2.5n			0	7	4	74-02	DL14Z
20#	N74LS02D		TTL	3	2.0*	0.8Δ	2	20	0.0	5.0	15nΔ			27m		0	7	4	74-02N	DL14bh
21	N74LS02N		TTL	3	2.0*	.80Δ	2	20	0.0	5.0	15nΔ			27m		0	7	4	74-02N	DL14br
22	N74LS27F		TTL	3	2.0*	.80Δ	3		0.0	5.0	15nΔ			34m		0	7	3	74-27N	DL14bh
23	N74LS27N		TTL	3	2.0*	.80Δ	3	20	0.0	5.0	15nΔ			34m		0	7	3	74-27N	DL14br
24#	N74LS260D		TTL	3	2.0*	0.8Δ	5	20	0.0	5.0	15nΔ			27m		0	7	2	74S260N	DL14bh
25	N74LS260N		TTL	3	2.0*	.80Δ	5	20	0.0	5.0	15nΔ			27m		0	7	2	74S260N	DL14br
26#	N74S02D		TTL	3	2.0*	0.8Δ	2	10	0.0	5.0	5.5nΔ			225m		0	7	2	74-02N	DL14bh
27	N74S02N		TTL	3	2.0*	.80Δ	2	10	0.0	5.0	5.5nΔ			225m		0	7	4	74-02N	DL14br
28#	N74S260D		TTL	3	2.0*	0.8Δ	5	10	0.0	5.0	6.0nΔ			225m		0	7	2	74-260N	DL14bh
29#	N74S260N		TTL	3	2.0*	.80Δ	5	10	0.0	5.0	6.0nΔ			225m		0	7	2	74S260N	DL14br
30	N7402F		TTL	3	2.0*	.80Δ	2	10	0.0	5.0	15nΔ			135m	1.0 †	0	7	4	74-02N	DL14bh
31	N7402N		TTL	3	2.0*	.80Δ	2	10	0.0	5.0	15nΔ			135m		0	7	4	74-02N	DL14br
32	N7423F		TTL	3	2.0*	.80Δ	7	10a	0.0	5.0	22nΔ			95m		0	7	2	74-23N	DL16aw
33	N7423N		TTL	3	2.0*	.80Δ	7	10a	0.0	5.0	22nΔ			95m		0	7	2	74-23N	DL16bp
34	N7425F		TTL	3	2.0*	.80Δ	5	10a	0.0	5.0	22nΔ			95m		0	7	2	74-25N	DL14bh
35	N7425N		TTL	3	2.0*	.80Δ	5	10a	0.0	5.0	22nΔ			95m		0	7	2	74-25N	DL14br
36	N7427F		TTL	3	2.0*	.80Δ	3	10	0.0	5.0	15nΔ			130m		0	7	3	74-27N	DL14bh
37	N7427N		TTL	3	2.0*	.80Δ	3	10a	0.0	5.0	15nΔ			130m		0	7	3	74-27N	DL14br
38#	S54F02F		TTL	3	2.0	0.8			0.5	7.0	7.5nΔ	2.5n	2.5n			5	C	4	74-02	DL14Z
39#	S54F02W		TTL	3	2.0	0.8			0.5	7.0	7.5nΔ	2.5n	2.5n			5	C	4	54S02	FPZ
40	S54S02F		TTL	3	2.0*	.80Δ	2	10	0.0	5.0	5.5nΔ			225m		5	C	4	74-02N	DL14bh
41	S54S02W		TTL	3	2.0*	.80Δ	2	10	0.0	5.0	5.5nΔ			225m		5	C	4	54S02W	FP39e
42	S54S260F		TTL	3	2.0*	.80Δ	5	10	0.0	5.0	6.0nΔ			225m		5	C	2	74S260N	DL14bh
43	S54S260W		TTL	3	2.0*	.80Δ	5	10	0.0	5.0	6.0nΔ			225m		5	C	2	54S260W	FP39e
44	S5402F		TTL	3	2.0*	.80Δ	2	10	0.0	5.0	22nΔ			135m	1.0 †	5	C	4	74-02N	DL14bh
45	S5402W		TTL	3	2.0*	.80Δ	2	10	0.0	5.0	22nΔ			135m	1.0 †	5	C	4	54-02W	FP39e
46	S5423F		TTL	3	2.0*	.80Δ	7	10a	0.0	5.0	22nΔ			95m		5	C	2	74-23N	DL16aw
47	S5423W		TTL	3	2.0*	.80Δ	7	10a	0.0	5.0	22nΔ			95m		5	C	2	54-23W	FP47g
48	S5425F		TTL	3	2.0*	.80Δ	5	10a	0.0	5.0	22nΔ			95m		5	C	2	74-25N	DL14bh
49	S5425W		TTL	3	2.0*	.80Δ	5	10a	0.0	5.0	22nΔ			95m		5	C	2	54-25W	FP39e
50	S5427F		TTL	3	2.0*	.80Δ	3	10a	0.0	5.0	10n			80m		5	C	3	74-27N	DL14bh
51	S5427W		TTL	3	2.0*	.80Δ	3	10a	0.0	5.0	15nΔ			130m		5	C	3	54-27W	FP39e
52#	SFC402E		TTL	3	2.0*	.80Δ	2	10	0.0	5.0	22nΔ			56m	1.0	0	7	4	74-02N	TO116
53#	SFC402EM		TTL	3	2.0*	.80Δ	2	10	0.0	5.0	22nΔ			56m	1.0	5	C	4	74-02N	TO116
54#	SFC402ET		TTL	3	2.0*	.80Δ	2	10	0.0	5.0	22nΔ			56m	1.0	2	8	4	74-02N	TO116
55#	SFC402EV		TTL	3	2.0*	.80Δ	2	10	0.0	5.0	22nΔ			56m	1.0	4	8	4	74-02N	TO116
56#	SFC402P		TTL	3	2.0*	.80Δ	2	10	0.0	5.0	22nΔ			56m	1.0	0	7	4	54-02W	TO85
57#	SFC402PM		TTL	3	2.0*	.80Δ	2	10	0.0	5.0	22nΔ			56m	1.0	5	C	4	54-02W	TO85
58	SN54ALS02J#		TTL	3	2.0	0.8	8		0.0	5.0	16n					5	C	4	74-02	DL14ci
59	SN54ALS02N		TTL	3	2.0	0.8	8		0.0	5.0	16n					5	C	4	74-02	DL14dd
60	SN54ALS27J		TTL	3	2.0	0.8	9		0.0	5.0	27n					5	C	3	74-27	DL14ci
61	SN54ALS27J#mil		TTL	3	2.0	0.8	9	3	0	7.0	22n					5	C	3	G03-295	DL14c
62	SN54ALS27N		TTL	3	2.0	0.8	9		0.0	5.0	27n					5	C	3	74-27	DL14dd
63	SN54ALS28J		TTL	3	2.0	0.8	8		0.0	7.0		10n	10n			5	C	4	G03-289a	DL14af
64	SN54ALS33J#mil		TTL	3	2.0	0.8	8	4	0	7.0	40n					5	C	4	74-33	DL14c
65	SN54ALS1002J#mil		TTL	3	2.0	0.8	8	4	0	7.0	10n					5	C	4	G03-297	DL14c
66	SN54S02J		TTL	3	2.0*	.80Δ	2	10	0.0	5.0	5.5nΔ			225m		5	C	4	54S02W	DL14af
67	SN54S02W		TTL	3	2.0*	.80Δ	2	10	0.0	5.0	5.5nΔ			225m		5	C	4	54S02W	MO004AA
68	SN54S260J		TTL	3	2.0*	.80Δ	5	10	0.0	5.0	6.0nΔ			225m	300m	5	C	2	74S260N	DL14af

5. GATES

IN ORDER OF (1) TECHNOLOGY (2) TYPE (3) LOGIC (4) LOGIC (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN IN		POWER SUPPLY SPAN		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE (°C)	PKTS PER MOD	DRAWINGS			
					3 MIN. (V)	4 MAX. (V)	IN	OUT MAX.	NEG. (V)	POS. (V)		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE		
1	SN5433J		TTL	3	2.0*	.80Δ	2	30	0.0	5.0	12n			112m†	1.0	5	C	4	74-33N	DL14af	
2	SN5433W		TTL	3	2.0*	.80Δ	2	30	0.0	5.0	24nΔ			112m†	1.0	5	C	4	54-33W	MC004AA	
3	SN7402J		TTL	3	2.0*	.80Δ	2	10	0.0	5.0	15nΔ			135m	1.0	0	7	4	74-02N	DL14af	
4	SN7402N		TTL	3	2.0*	.80Δ	2	10	0.0	5.0	15nΔ			135m	1.0	0	7	4	74-02N	DL14r	
5	SN7423J		TTL	3	2.0*	.80Δ	8	8	0.0	5.0	22nΔ			95m	0	7	2	74-23N	DL16v		
6	SN7423N		TTL	3	2.0*	.80Δ	8	8	0.0	5.0	22nΔ			95m	0	7	2	74-23N	DL16i		
7	SN7425J		TTL	3	2.0*	.80Δ	8	8	0.0	5.0	22nΔ			95m	0	7	2	74-25N	DL14af		
8	SN7425N		TTL	3	2.0*	.80Δ	8	8	0.0	5.0	22nΔ			95m	0	7	2	74-25N	DL14r		
9	SN7427J		TTL	3	2.0*	.80Δ	3	20	0.0	5.0	15nΔ			130m	0	7	3	74-27N	DL14af		
10	SN7427N		TTL	3	2.0*	.80Δ	3	20	0.0	5.0	15nΔ			130m	0	7	3	74-27N	DL14r		
11	SN7428J		TTL	3	2.0*	.80Δ	2	60	0.0	5.0	8.0n			112m†	1.0	0	7	4	74-02N	DL14af	
12	SN7428N		TTL	3	2.0*	.80Δ	2	60	0.0	5.0	18 Δ			112m†	1.0	0	7	4	74-02N	DL14r	
13	SN7433J		TTL	3	2.0*	.80Δ	2	30	0.0	5.0	12n			112m†	1.0	0	7	4	74-33N	DL14af	
14	SN7433N		TTL	3	2.0*	.80Δ	2	30	0.0	5.0	24nΔ			112m†	1.0	0	7	4	74-33N	DL14r	
15	SN54128J		TTL	3	2.0*	.80Δ	2	30	0.0	5.0	8.0n			112m†	1.0	5	C	4	74-02N	DL14af	
16	SN54128W		TTL	3	2.0*	.80Δ	2	30	0.0	5.0	18 Δ			112m†	1.0	5	C	4	54S02W	MC004AA	
17	SN74128J		TTL	3	2.0*	.80Δ	2	30	0.0	5.0	8.0n			112m†	1.0	0	7	4	74-02N	DL14af	
18	SN74128N		TTL	3	2.0*	.80Δ	2	30	0.0	5.0	18 Δ			112m†	1.0	0	7	4	74-02N	DL14r	
19#	T74LS02B1		TTL	3	2.0*	.80*	2	22d	0.0	5.0	5.0n			27m%	300m	0	7	4	74-02N	DL14y	
20#	T74LS02D1		TTL	3	2.0*	.80Δ	2	22d	0.0	5.0	5.0n			27m%	300m	0	7	4	74-02	DL14av	
21#	T74LS27D1		TTL	3	2.0*	.80Δ	3	5	0.0	5.0	8u			34m%	300m	0	7	3	74-27N	DL14av	
22#	ZN5425E		TTL	3	2.0*	.80Δ	8	8	0.0	5.0	22n			105m	0	7	2	74-25N	TO116		
23#	ZN5425J		TTL	3	2.0*	.80Δ	8	8	0.0	5.0	22n			105m	0	7	2	74-25N	DL14ap		
24#	ZN5427E		TTL	3	2.0*	.80Δ	3	20	0.0	5.0	15nΔ			143m	0	7	3	74-27N	TO116		
25#	ZN5427J		TTL	3	2.0*	.80Δ	3	20	0.0	5.0	15nΔ			143m	0	7	3	74-27N	DL14ap		
26#	ZN5428E		TTL	3	2.0*	.80Δ	2	60	0.0	5.0	18nΔ			112m†	0	7	2	74-02N	TO116		
27#	ZN5428J		TTL	3	2.0*	.80Δ	2	60	0.0	5.0	18nΔ			112m†	0	7	2	74-02N	DL14ap		
28#	ZN7425E		TTL	3	2.0*	.80Δ	8	8	0.0	5.0	22n			105m	0	7	2	74-25N	TO116		
29#	ZN7425J		TTL	3	2.0*	.80Δ	8	8	0.0	5.0	22n			105m	0	7	2	74-25N	DL14ap		
30#	ZN7427E		TTL	3	2.0*	.80Δ	3	20	0.0	5.0	15nΔ			143m	0	7	3	74-27N	TO116		
31#	ZN7427J		TTL	3	2.0*	.80Δ	3	20	0.0	5.0	15nΔ			143m	0	7	3	74-27N	DL14ap		
32#	ZN7428E		TTL	3	2.0*	.80Δ	2	60	0.0	5.0	18nΔ			112m†	0	7	2	74-02N	TO116		
33#	ZN7428J		TTL	3	2.0*	.80Δ	2	60	0.0	5.0	18nΔ			112m†	0	7	2	74-02N	DL14ap		
34#	K155LE1		TTL	3	2.4	0.4	8	8	0.0	5.0		15n	22n		1	7	4				
35#	K155LE3		TTL	3	2.4	0.4	8	8	0.0	5.0		15n	22n		1	7	2				
36	MC3002L P%		TTL	3	2.4*	.40ΔC	2	10	0.0	5.0	6.0n			122m†	0	7	4		TO116		
37	MC3102F		TTL	3	2.4*	.40ΔC	2	10	0.0	5.0	6.0n			122m†	0	7	4	54S02W	TO86		
38	MC3102L		TTL	3	2.4*	.40ΔC	2	10	0.0	5.0	6.0n			122m†	0	7	4	74H02P	TO116		
39#	LC4001B		TTL	3	2.5	1.5Δ	2	2	0.0	0.0	125n	200n	200n	300m	4	8	4	G03-290	DL14h		
40	N8242Q		TTL	3	2.6	.40C	2	20	0.0	5.0	18n			250m	0	7	4	G03-242	TO88		
41	N8815A		TTL	3	2.6*	.40ΔC	4	20	0	5	9.0n			50m	50m	600m	0	7	2	74-25N	TO116
42	N8815N		TTL	3	2.6*	.40ΔC	4	20	0.0	5.0	9.0n			50m	50m	600m	0	7	2	74-25N	TO88
43	N8875A		TTL	3	2.6*	.40ΔC	3	20	0	5	9.0n			50m	44m	600m	0	7	3	74-27N	TO116
44	N8875F		TTL	3	2.6*	.40ΔC	3	20	0.0	5.0	9.0n			50m	44m	600m	0	7	3	74-27N	DL14ad
45	N8875J		TTL	3	2.6*	.40ΔC	3	20	0	5	9.0n			50m	44m	600m	0	7	3	G03-218c	TO88
46	N8885F		TTL	3	2.6*	.40ΔC	2	20	0.0	5.0	9.0n			50m	37m	600m	0	7	4	G03-218d	DL14ad
47	N8885J		TTL	3	2.6*	.40ΔC	2	20	0	5	9.0n			50m	37m	600m	0	7	4	G03-218d	TO88
48	S8242A		TTL	3	2.6	.40C	2	20	0.0	5.0	18n			250m	0	7	4	G03-242	DL14e		
49	S8815A		TTL	3	2.6*	.40ΔC	4	20	0	5	9.0n			50m	50m	600m	5	C	2	74-25N	TO116
50	S8815J		TTL	3	2.6*	.40ΔC	4	20	0	5	9.0n			50m	50m	600m	5	C	2	74-25N	TO88
51	S8875A		TTL	3	2.6*	.40ΔC	3	20	0	5	9.0n			50m	44m	600m	5	C	3	74-27N	TO116
52	S8875F		TTL	3	2.6*	.40ΔC	3	20	0.0	5.0	9.0n			50m	44m	600m	5	C	3	G03-218c	DL14ad
53	S8875J		TTL	3	2.6*	.40ΔC	3	20	0	5	9.0n			50m	44m	600m	5	C	3	G03-218c	TO88
54	S8885A		TTL	3	2.6*	.40ΔC	2	20	0	5	9.0n			50m	37m	600m	5	C	4	G03-218d	TO116
55	S8885F		TTL	3	2.6*	.40ΔC	2	20	0.0	5.0	9.0n			50m	37m	600m	5	C	4	G03-218d	DL14ad
56	S8885J		TTL	3	2.6*	.40ΔC	2	20	0	5	9.0n			50m	37m	600m	5	C	4	G03-218d	TO88
57#	ZN5402E		TTL	3	3.5	.20	2	10	0.0	5.0	29n			10m	1.0	5	C	4		DL14m	
58#	ZN5402F		TTL	3	3.5	.20	2	10	0.0	5.0	29n			10m	1.0	5	C	4		TO86	
59#	ZN7402E		TTL	3	3.5	.20	2	10	0.0	5.0	29n			10m	1.0	5	C	4		DL14m	
60#	ZN7402F		TTL	3	3.5	.20	2	10	0.0	5.0	29n			10m	1.0	5	C	4		TO86	
61	MM4601AD		TTL	3	3.5*	1.5Δ	2	2	0.0	5.0	35n			500m	450m	5	C	4	40-01B	DL14bi	
62	MM5601AN		TTL	3	3.5*	1.5Δ	2	2	0.0	5.0	35n			500m	450m	4	8	4	40-01B	DL14bt	
63	306CL		TTL	3	6.5Δ	5.0*	3	3	0.0	13	600nΔ			640m%	3	8	4	G03-131g			
64	307AL		TTL	3	6.5Δ	5.0*	3	10	0.0	13	600nΔ			448m%	3	7	4	G03-131g	DL16ad		
65	MM480		TTL	3	-8.0*	-1.0ΔC	3	10	10	0	250n			24m	0	7	2	G03-202	TO100		
66	MM580		TTL	3	-8.0*	-1.0ΔC	3	10	10	0	250n			24m	0	7	2	G03-202	TO100		
67#	K155LE6		TTL	3,E	2.4	0.4	8	8	0.0	5.0		12n	9n		1	7	4				
68#	K155LE2		TTL	3,E	2.4	0.4	8	8	0.0	5.0		15n	22n		1	7	2				
69	N8471A		TTL	4		.35ΔC	3	9	0	5	150n			75n	17m	1.4	0	7	3	74-12N	TO115
70	N8471J		TTL	4		.35ΔC	3	9	0	5	150n			75n	17m	1.4	0	7	3	54-12W	TO88
71	N8481A		TTL	4		.35ΔC	2	9	0	5	150n			75n	17m	1.4	0	7	4	74-03N	TO116
72	N8481F		TTL	4		.35ΔC	2	9	0.0	5.0	150n			75n	17m	1.4	0	7	4	74-03N	DL14ad
73	N8481J		TTL	4		.35ΔC	2	9	0	5	150n			75n	17m	1.4	0	7	4	54S03W	TO88
74	S8471A		TTL	4		.35ΔC	3	9	0	5	150n			75n	17m	1.4	5	C	3	74-12N	TO116
75	S8471J		TTL	4		.35ΔC	3	9	0	5	150n			75n	17m	1.4	5	C	3	54-12W	TO88
76	S8481A		TTL	4		.35ΔC	2	9	0	5	150n			75n	17m	1.4	5	C	4	74-03N	TO116
77	S8481F		TTL	4		.35ΔC	2	9	0.0	5.0	150n			75n	17m	1.4	5	C	4	74-03N	DL14ad
78	S8481J		TTL	4		.35ΔC	2	9	0	5	150n			75n	17m	1.4	5	C	4	54S	

5. GATES

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC (4) LOGIC (5) TYPE NO.

LINE NO.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN		POWER SUPPLY		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE		CKTS PER MOD	DRAWINGS	
					3 MIN. (V)	4 MAX. (V)	IN	OUT MAX.	NEG. (V)	POS (V)		RISE TIME (S)	FALL TIME (S)			LOGIC OR BLOCK	OUTLINE			
1	9007DC		TTL	4	1.8*	.85Δ	8	10	0.0	5.0	13nΔ							1	G04-345c	DL14ad
2	9012DC		TTL	4	1.8*	.85Δ	2	2	0.0	5.0	45nΔ							4	74-03N	TO116
3	SN29002J		TTL	4	1.8*	.85Δ	2	2	0.0	5.0	15nΔ							7	74-00N	DL14af
4	SN29002N		TTL	4	1.8*	.85Δ	2	2	0.0	5.0	15nΔ							7	74-00N	DL14r
5	SN29003J		TTL	4	1.8*	.85Δ	3	3	0.0	5.0	15nΔ							7	74-10N	DL14af
6	SN29003N		TTL	4	1.8*	.85Δ	3	3	0.0	5.0	15nΔ							7	74-10N	DL14r
7	SN29004J		TTL	4	1.8*	.85Δ	4	4	0.0	5.0	15nΔ							7	74-13N	DL14af
8	SN29004N		TTL	4	1.8*	.85Δ	4	4	0.0	5.0	15nΔ							7	74-13N	DL14r
9	SN29007J		TTL	4	1.8*	.85Δ	8	8	0.0	5.0	15nΔ							7	G04-03ba	DL14af
10	SN29007N		TTL	4	1.8*	.85Δ	8	8	0.0	5.0	15nΔ							7	G04-03ba	DL14r
11	SN29009J		TTL	4	1.8*	.85Δ	4	60	0.0	5.0	17nΔ							2	74-13N	DL14af
12	SN29009N		TTL	4	1.8*	.85Δ	4	60	0.0	5.0	17nΔ							2	74-13N	DL14r
13	SN29012J		TTL	4	1.8*	.85Δ	2	2	0.0	5.0	45nΔ							7	74-03N	DL14af
14	SN29012N		TTL	4	1.8*	.85Δ	2	2	0.0	5.0	45nΔ							7	74-03N	DL14r
15	5410DM		TTL	4	2.0*	.40Δ	3	20	0.0	5.0	220nΔ							5	74-10N	DL14bf
16	5412DM		TTL	4	2.0*	.40Δ	3	10	0.0	5.0	45nΔ							5	74-12N	DL14bf
17	5412FM		TTL	4	2.0*	.40Δ	3	10	0.0	5.0	45nΔ							5	54-12W	FP52
18	5420FM		TTL	4	2.0*	.40Δ	4	20	0.0	5.0	22nΔ							5	54-20W	FP52
19	5422DM		TTL	4	2.0*	.40Δ	4	12	0.0	5.0	45nΔ							5	74-22N	DL14bf
20	5422FM		TTL	4	2.0*	.40Δ	4	12	0.0	5.0	45nΔ							5	54-22W	FP52
21	7410DC		TTL	4	2.0*	.40Δ	3	20	0.0	5.0	22nΔ							0	74-09N	DL14bf
22	7412DC		TTL	4	2.0*	.40Δ	3	10	0.0	5.0	45nΔ							0	74-12N	DL14bf
23	7422DC		TTL	4	2.0*	.40Δ	4	12	0.0	5.0	45nΔ							0	74-22N	DL14ba
24	7422PC		TTL	4	2.0*	.40Δ	4	12	0.0	5.0	45nΔ							0	74-22N	DL14ce
25	54522FM		TTL	4	2.0*	.50Δ	1	10	0.0	5.0	7.5nΔ							5	54-22W	FP52
26	74503PC		TTL	4	2.0*	.50Δ	2	10	0.0	5.0	7.5nΔ							0	74-03N	DL14ce
27	74510PC		TTL	4	2.0*	.50Δ	3	20	0.0	5.0	4.5nΔ							0	74-10N	DL14ce
28#	SFC403LE		TTL	4	2.0*	.60Δ	2	10	0.0	5.0	90nΔ		1.0m†	1.0				0	74-03N	TO116
29#	SFC403LEM		TTL	4	2.0*	.60Δ	2	10	0.0	5.0	90nΔ		1.0m†	1.0				0	74-03N	TO116
30	SN54L01W		TTL	4	2.0*	.60Δ	2	10	0.0	5.0	90nΔ		1.0m†	1.0				5	54-01W	FP52e
31	SN54L03J		TTL	4	2.0*	.60Δ	2	10	0.0	5.0	90nΔ		1.0m†	1.0				5	74-03N	DL14af
32	54LS00DM		TTL	4	2.0*	.70Δ	2	2.5	0.0	5.0	5.0n		22m%	300m				5	74-00N	TO116
33	54LS00FM		TTL	4	2.0*	.70Δ	2	2.5	0.0	5.0	5.0n		22m%	300m				5	54S00W	TO86
34	54LS03DM		TTL	4	2.0*	.70Δ	2	2.5	0.0	5.0	14n		22m%	300m				5	74-03N	TO116
35	54LS03FM		TTL	4	2.0*	.70Δ	2	2.5	0.0	5.0	14n		22m%	300m				5	54S03W	TO86
36	54LS10DM		TTL	4	2.0*	.70Δ	3	2.5	0.0	5.0	6.0n		16m%	300m				5	74-10N	TO116
37	54LS10FM		TTL	4	2.0*	.70Δ	3	2.5	0.0	5.0	6.0n		16m%	300m				5	54S10W	TO86
38	54LS20DM		TTL	4	2.0*	.70Δ	4	2.5	0.0	5.0	7.0n		11m%	300m				5	74-13N	TO116
39	54LS20FM		TTL	4	2.0*	.70Δ	4	2.5	0.0	5.0	7.0n		11m%	300m				5	54-13W	TO86
40	54LS22FM		TTL	4	2.0*	.70Δ	4	2.5	0.0	5.0	14n		11m%	300m				5	54-22W	TO86
41	54LS26DM		TTL	4	2.0*	.70Δ	2	11d	0.0	5.0	22nΔ		22m%	300m*				5	74-03N	TO116
42	54LS26FM		TTL	4	2.0*	.70Δ	2	11d	0.0	5.0	22nΔ		22m%	300m*				5	54S03w	FP21h
43	54LS30DM		TTL	4	2.0*	.70Δ	8	2.5	0.0	5.0	9.0n		5.5m%	300m				5	74-30N	TO116
44	54LS30FM		TTL	4	2.0*	.70Δ	8	2.5	0.0	5.0	9.0n		5.5m%	300m				5	54S30W	TO86
45	54LS133DM		TTL	4	2.0*	.70Δ	13	2.5	0.0	5.0	17n		5.5m%	300m				5	74S133N	TO116
46	54LS133FM		TTL	4	2.0*	.70Δ	13	2.5	0.0	5.0	17n		5.5m%	300m				5	54S133W	TO86
47	DM54L00J		TTL	4	2.0*	.70Δ	2	20	0.0	5.0	100nΔ		4.0m†					5	74-00N	DL14ax
48	DM54L00W#mil		TTL	4	2.0*	.70Δ	8	4	0.0	8.0	60n		4.0m†	0.4				5	G04-384	FP97c
49	DM54L03J		TTL	4	2.0*	.70Δ	2	20	0.0	5.0	90nΔ		4.0m†					5	74-03N	DL14ax
50	DM54L10J		TTL	4	2.0*	.70Δ	3	20	0.0	5.0	100nΔ		3.0m†					5	74-10N	DL14ax
51	DM54L10W#mil		TTL	4	2.0*	.70Δ	9	3	0.0	8.0	60n		3.0m†	0.4				5	G04-509	FP97c
52	DM54L20J		TTL	4	2.0*	.70Δ	4	20	0.0	5.0	100nΔ		2.0m†					5	74-13N	DL14ax
53	DM54L20W#mil		TTL	4	2.0*	.70Δ	8	2	0.0	8.0	60n		2.0m†	0.4				5	G04-465	FP97c
54	DM54L30J		TTL	4	2.0*	.70Δ	8	20	0.0	5.0	90nΔ		1.0m†					5	74-30N	DL14ax
55	DM74L00N		TTL	4	2.0*	.70Δ	2	20	0.0	5.0	100nΔ		4.0m†					0	74-00N	DL14bt
56	DM74L03N		TTL	4	2.0*	.70Δ	2	20	0.0	5.0	90nΔ		4.0m†					0	74-03N	DL14bt
57	DM74L10N		TTL	4	2.0*	.70Δ	3	20	0.0	5.0	100nΔ		3.0m†					0	74-10N	DL14bt
58	DM74L20N		TTL	4	2.0*	.70Δ	4	20	0.0	5.0	100nΔ		2.0m†					0	74-13N	DL14bt
59	DM74L30N		TTL	4	2.0*	.70Δ	8	20	0.0	5.0	90nΔ		1.0m†					0	74-30N	DL14bt
60	DM80L06N		TTL	4	2.0*	.70Δ	8	4	0.0	5.0	290n		12m	0.4				0	G04-464	DL14r
61	JANM38510/02001BAA		TTL	4	2.0*	.70Δ	8	10	0.0	5.5	154nΔ							5	54-30W	FP115
62	JANM38510/02001BAC		TTL	4	2.0*	.70Δ	8	10	0.0	5.5	154nΔ							5	54-30W	FP115
63	JANM38510/02001BCA		TTL	4	2.0*	.70Δ	8	10e	0.0	5.5	154nΔ							5	74-30N	DL14bo
64	JANM38510/02001BCB		TTL	4	2.0*	.70Δ	8	10	0.0	5.5	154nΔ							5	74-30N	DL14bo
65	JANM38510/02001BDA		TTL	4	2.0*	.70Δ	8	10	0.0	5.5	154nΔ							5	74-30N	DL14bo
66	JANM38510/02001BDB		TTL	4	2.0*	.70Δ	8	10e	0.0	5.5	154nΔ							5	54-30W	FP116
67	JANM38510/02001CAA		TTL	4	2.0*	.70Δ	8	10	0.0	5.5	154nΔ							5	54-30W	FP116
68	JANM38510/02001CAC		TTL	4	2.0*	.70Δ	8	10	0.0	5.5	154nΔ							5	54-30W	FP115
69	JANM38510/02001CCA		TTL	4	2.0*	.70Δ	8	10	0.0	5.5	154nΔ							5	54-30W	FP115
70	JANM38510/02001CCB		TTL	4	2.0*	.70Δ	8	10e	0.0	5.5	154nΔ							5	74-30N	DL14bo
71	JANM38510/02001CDA		TTL	4	2.0*	.70Δ	8	10	0.0	5.5	154nΔ							5	74-30N	DL14bo
72	JANM38510/02001CDB		TTL	4	2.0*	.70Δ	8	10e	0.0	5.5	154nΔ							5	54-30W	FP116
73	JANM38510/02002BAA		TTL	4	2.0*	.70Δ	8	10	0.0	5.5	154nΔ							5	54-30W	FP116
74	JANM38510/02002BAC		TTL	4	2.0*	.70Δ	4	10	0.0	5.5	99nΔ							5	54-20W	FP115
75	JANM38510/02002BCA		TTL	4	2.0*	.70Δ	4	10	0.0	5.5	99nΔ							5	54-20W	FP115
76	JANM38510/02002BCB		TTL	4	2.0*	.70Δ	4	10e	0.0	5.5	99nΔ							5	74-13N	DL14bo
77	JANM38510/02002BDA		TTL	4	2.0*	.70Δ	4	10	0.0	5.5	99nΔ							5	74-13N	DL14bo
78	JANM38510/02002BDB		TTL	4	2.0*	.70Δ	4	10e	0.0	5.5	99nΔ							5	54-20W	FP116
79	JANM38510/02002CAA		TTL	4	2.0*	.70Δ	4	10	0.0	5.5	99nΔ							5	54-20W	FP116
80	JANM38510/02002CAC		TTL	4	2.0*	.70Δ</														

5. GATES

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC (4) LOGIC (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN		POWER SUPPLY		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS	
					3 | MIN. '1' (V)	4 | MAX. '0' (V)	IN	OUT MAX.	SPAN NEG. (V)	POS (V)		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE
1	JANM38510/02003BAC		TTL	4	2.0*	.70Δ	3	10	0.0	5.5	99nΔ			12m	5	C	3	54-10W	FP115
2	JANM38510/02003BCA		TTL	4	2.0*	.70Δ	3	10e	0.0	5.5	99nΔ			12m	5	C	3	74-10N	DL14bo
3	JANM38510/02003BCB		TTL	4	2.0*	.70Δ	3	10	0.0	5.5	99nΔ			12m	5	C	3	74-10N	DL14bo
4	JANM38510/02003BDA		TTL	4	2.0*	.70Δ	3	10e	0.0	5.5	99nΔ			12m	5	C	3	54-10W	FP116
5	JANM38510/02003BDB		TTL	4	2.0*	.70Δ	3	10	0.0	5.5	99nΔ			12m	5	C	3	54-10W	FP116
6	JANM38510/02003CAA		TTL	4	2.0*	.70Δ	3	10	0.0	5.5	99nΔ			12m	5	C	3	54-10W	FP115
7	JANM38510/02003CAC		TTL	4	2.0*	.70Δ	3	10	0.0	5.5	99nΔ			12m	5	C	3	54-10W	FP115
8	JANM38510/02003CCA		TTL	4	2.0*	.70Δ	3	10e	0.0	5.5	99nΔ			12m	5	C	3	74-10N	DL14bo
9	JANM38510/02003CCB		TTL	4	2.0*	.70Δ	3	10	0.0	5.5	99nΔ			12m	5	C	3	74-10N	DL14bo
10	JANM38510/02003CDA		TTL	4	2.0*	.70Δ	3	10e	0.0	5.5	99nΔ			12m	5	C	3	54-10W	FP116
11	JANM38510/02003CDB		TTL	4	2.0*	.70Δ	3	10	0.0	5.5	99nΔ			12m	5	C	3	54-10W	FP116
12	JANM38510/02004BAA		TTL	4	2.0*	.70Δ	2	10	0.0	5.5	99nΔ			16m	5	C	4	54-00W	FP115
13	JANM38510/02004BAC		TTL	4	2.0*	.70Δ	2	10	0.0	5.5	99nΔ			16m	5	C	4	54-00W	FP115
14	JANM38510/02004BCA		TTL	4	2.0*	.70Δ	2	10	0.0	5.5	99nΔ			16m	5	C	4	74-00N	DL14bo
15	JANM38510/02004BCB		TTL	4	2.0*	.70Δ	2	10	0.0	5.5	99nΔ			16m	5	C	4	74-00N	DL14bo
16	JANM38510/02004BDA		TTL	4	2.0*	.70Δ	2	10	0.0	5.5	99nΔ			16m	5	C	4	54-00W	FP116
17	JANM38510/02004BDB		TTL	4	2.0*	.70Δ	2	10	0.0	5.5	99nΔ			16m	5	C	4	54-00W	FP116
18	JANM38510/02004CAA		TTL	4	2.0*	.70Δ	2	10	0.0	5.5	99nΔ			16m	5	C	4	54-00W	FP115
19	JANM38510/02004CAC		TTL	4	2.0*	.70Δ	2	10	0.0	5.5	99nΔ			16m	5	C	4	54-00W	FP115
20	JANM38510/02004CCA		TTL	4	2.0*	.70Δ	2	10	0.0	5.5	99nΔ			16m	5	C	4	74-00N	DL14bo
21	JANM38510/02004CCB		TTL	4	2.0*	.70Δ	2	10	0.0	5.5	99nΔ			16m	5	C	4	74-00N	DL14bo
22	JANM38510/02004CDA		TTL	4	2.0*	.70Δ	2	10	0.0	5.5	99nΔ			16m	5	C	4	54-00W	FP116
23	JANM38510/02004CDB		TTL	4	2.0*	.70Δ	2	10	0.0	5.5	99nΔ			16m	5	C	4	54-00W	FP116
24	JANM38510/02006BCB		TTL	4	2.0*	.70Δ	2	10	0.0	5.5	140nΔ			16m	5	C	4	74-03N	DL14bo
25	JANM38510/02006CCB		TTL	4	2.0*	.70Δ	2	10	0.0	5.5	140nΔ			16m	5	C	4	74-03N	DL14bo
26	JANM38510/30001BAA		TTL	4	2.0*	.70Δ	2	11d	0.0	5.5	24nΔ			24m	5	C	4	54S00W	FP115
27	JANM38510/30001BAB		TTL	4	2.0*	.70Δ	2	11d	0.0	5.5	24nΔ			24m	5	C	4	54S00W	FP115
28	JANM38510/30001BAC		TTL	4	2.0*	.70Δ	2	11d	0.0	5.5	24nΔ			24m	5	C	4	54S00W	FP115
29	JANM38510/30001BCA		TTL	4	2.0*	.70Δ	2	11d	0.0	5.5	24nΔ			24m	5	C	4	74-00N	DL14bo
30	JANM38510/30001BCC		TTL	4	2.0*	.70Δ	2	11d	0.0	5.5	24nΔ			24m	5	C	4	74-00N	DL14bo
31	JANM38510/30001BDA		TTL	4	2.0*	.70Δ	2	11d	0.0	5.5	24nΔ			24m	5	C	4	54S00W	FP116
32	JANM38510/30001BDB		TTL	4	2.0*	.70Δ	2	11d	0.0	5.5	24nΔ			24m	5	C	4	54S00W	FP116
33	JANM38510/30001BDC		TTL	4	2.0*	.70Δ	2	11d	0.0	5.5	24nΔ			24m	5	C	4	54S00W	FP116
34	JANM38510/30001CAA		TTL	4	2.0*	.70Δ	2	11d	0.0	5.5	24nΔ			24m	5	C	4	54S00W	FP115
35	JANM38510/30001CAB		TTL	4	2.0*	.70Δ	2	11d	0.0	5.5	24nΔ			24m	5	C	4	54S00W	FP115
36	JANM38510/30001CAC		TTL	4	2.0*	.70Δ	2	11d	0.0	5.5	24nΔ			24m	5	C	4	54S00W	FP115
37	JANM38510/30001CCA		TTL	4	2.0*	.70Δ	2	11d	0.0	5.5	24nΔ			24m	5	C	4	74-00N	DL14bo
38	JANM38510/30001CCC		TTL	4	2.0*	.70Δ	2	11d	0.0	5.5	24nΔ			24m	5	C	4	74-00N	DL14bo
39	JANM38510/30001CDA		TTL	4	2.0*	.70Δ	2	11d	0.0	5.5	24nΔ			24m	5	C	4	74-03N	FP116
40	JANM38510/30001CDB		TTL	4	2.0*	.70Δ	2	11d	0.0	5.5	24nΔ			24m	5	C	4	54S00W	FP116
41	JANM38510/30001CDC		TTL	4	2.0*	.70Δ	2	11d	0.0	5.5	24nΔ			24m	5	C	4	54S00W	FP116
42	JANM38510/30002BAA		TTL	4	2.0*Ø	.70Δ	2	11d	0.0	5.5	60nΔ			24m	5	C	4	54S03W	FP115
43	JANM38510/30002BAB		TTL	4	2.0*Ø	.70Δ	2	11d	0.0	5.5	60nΔ			24m	5	C	4	54S03W	FP115
44	JANM38510/30002BAC		TTL	4	2.0*Ø	.70Δ	2	11d	0.0	5.5	60nΔ			24m	5	C	4	54S03W	FP115
45	JANM38510/30002BCA		TTL	4	2.0*Ø	.70Δ	2	11d	0.0	5.5	60nΔ			24m	5	C	4	74-03N	DL14bo
46	JANM38510/30002BCB		TTL	4	2.0*Ø	.70Δ	2	11d	0.0	5.5	60nΔ			24m	5	C	4	74-03N	DL14bo
47	JANM38510/30002BCC		TTL	4	2.0*Ø	.70Δ	2	11d	0.0	5.5	60nΔ			24m	5	C	4	74-03N	DL14bo
48	JANM38510/30002BDA		TTL	4	2.0*Ø	.70Δ	2	11d	0.0	5.5	60nΔ			24m	5	C	4	54S03W	FP116
49	JANM38510/30002BDB		TTL	4	2.0*Ø	.70Δ	2	11d	0.0	5.5	60nΔ			24m	5	C	4	54S03W	FP116
50	JANM38510/30002BDC		TTL	4	2.0*Ø	.70Δ	2	11d	0.0	5.5	60nΔ			24m	5	C	4	54S03W	FP116
51	JANM38510/30002CAB		TTL	4	2.0*Ø	.70Δ	2	11d	0.0	5.5	60nΔ			24m	5	C	4	54S03W	FP115
52	JANM38510/30002CAC		TTL	4	2.0*Ø	.70Δ	2	11d	0.0	5.5	60nΔ			24m	5	C	4	54S03W	FP115
53	JANM38510/30002CCA		TTL	4	2.0*Ø	.70Δ	2	11d	0.0	5.5	60nΔ			24m	5	C	4	74-03N	DL14bo
54	JANM38510/30002CCB		TTL	4	2.0*Ø	.70Δ	2	11d	0.0	5.5	60nΔ			24m	5	C	4	74-03N	DL14bo
55	JANM38510/30002CCC		TTL	4	2.0*Ø	.70Δ	2	11d	0.0	5.5	60nΔ			24m	5	C	4	74-03N	DL14bo

5. GATES

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC '1'
(4) LOGIC '0' (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	1] TECH	2] TYPE OF GATE	LOGIC LEVEL		FAN IN		POWER SUPPLY SPAN		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS	
					3] MIN. '1' (V)	4] MAX. '0' (V)	IN	OUT MAX.	NEG. (V)	POS (V)		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE
1	JANM38510/30002CDA		TTL	4	2.0*Ø	.70Δ	2	11d	0.0	5.5	60nΔ			24m		5 C	4	54S03W	FP116
2	JANM38510/30002CDC		TTL	4	2.0*Ø	.70Δ	2	11d	0.0	5.5	60nΔ			24m		5 C	4	54S03W	FP116
3	JANM38510/30005BAA		TTL	4	2.0*	.70Δ	3	11d	0.0	5.5	24nΔ			18m		5 C	3	54S10W	FP115
4	JANM38510/30005BAB		TTL	4	2.0*	.70Δ	3	11d	0.0	5.5	24nΔ			18m		5 C	3	54S10W	FP115
5	JANM38510/30005BAC		TTL	4	2.0*	.70Δ	3	11d	0.0	5.5	24nΔ			18m		5 C	3	54S10W	FP115
6	JANM38510/30005BCA		TTL	4	2.0*	.70Δ	3	11d	0.0	5.5	24nΔ			18m		5 C	3	74-10N	DL14bo
7	JANM38510/30005BCB		TTL	4	2.0*	.70Δ	3	11d	0.0	5.5	24nΔ			18m		5 C	3	74-10N	DL14bo
8	JANM38510/30005BCC		TTL	4	2.0*	.70Δ	3	11d	0.0	5.5	24nΔ			18m		5 C	3	74-10N	DL14bo
9	JANM38510/30005BDA		TTL	4	2.0*	.70Δ	3	11d	0.0	5.5	24nΔ			18m		5 C	3	54S10W	FP116
10	JANM38510/30005BDB		TTL	4	2.0*	.70Δ	3	11d	0.0	5.5	24nΔ			18m		5 C	3	54S10W	FP116
11	JANM38510/30005CAA		TTL	4	2.0*	.70Δ	3	11d	0.0	5.5	24nΔ			18m		5 C	3	54S10W	FP115
12	JANM38510/30005CAB		TTL	4	2.0*	.70Δ	3	11d	0.0	5.5	24nΔ			18m		5 C	3	54S10W	FP115
13	JANM38510/30005CAC		TTL	4	2.0*	.70Δ	3	11d	0.0	5.5	24nΔ			18m		5 C	3	54S10W	FP115
14	JANM38510/30005CCA		TTL	4	2.0*	.70Δ	3	11d	0.0	5.5	24nΔ			18m		5 C	3	74-10N	DL14bo
15	JANM38510/30005CCB		TTL	4	2.0*	.70Δ	3	11d	0.0	5.5	24nΔ			18m		5 C	3	74-10N	DL14bo
16	JANM38510/30005CCC		TTL	4	2.0*	.70Δ	3	11d	0.0	5.5	24nΔ			18m		5 C	3	74-10N	DL14bo
17	JANM38510/30005CDA		TTL	4	2.0*	.70Δ	3	11d	0.0	5.5	24nΔ			18m		5 C	3	54S10W	FP116
18	JANM38510/30005CDB		TTL	4	2.0*	.70Δ	3	11d	0.0	5.5	24nΔ			18m		5 C	3	54S10W	FP116
19	JANM38510/30006BAA		TTL	4	2.0*Ø	.70Δ	3	11d	0.0	5.5	60nΔ			18m		5 C	3	54-12W	FP115
20	JANM38510/30006BAB		TTL	4	2.0*Ø	.70Δ	3	11d	0.0	5.5	60nΔ			18m		5 C	3	54-12W	FP115
21	JANM38510/30006BAC		TTL	4	2.0*Ø	.70Δ	3	11d	0.0	5.5	60nΔ			18m		5 C	3	54-12W	FP115
22	JANM38510/30006BCA		TTL	4	2.0*Ø	.70Δ	3	11d	0.0	5.5	60nΔ			18m		5 C	3	74-12N	DL14bo
23	JANM38510/30006BCB		TTL	4	2.0*Ø	.70Δ	3	11d	0.0	5.5	60nΔ			18m		5 C	3	74-12N	DL14bo
24	JANM38510/30006BCC		TTL	4	2.0*Ø	.70Δ	3	11d	0.0	5.5	60nΔ			18m		5 C	3	74-12N	DL14bo
25	JANM38510/30006BDA		TTL	4	2.0*Ø	.70Δ	3	11d	0.0	5.5	60nΔ			18m		5 C	3	54-12W	FP116
26	JANM38510/30006BDC		TTL	4	2.0*Ø	.70Δ	3	11d	0.0	5.5	60nΔ			18m		5 C	3	54-12W	FP116
27	JANM38510/30006CAA		TTL	4	2.0*Ø	.70Δ	3	11d	0.0	5.5	60nΔ			18m		5 C	3	54-12W	FP115
28	JANM38510/30006CAB		TTL	4	2.0*Ø	.70Δ	3	11d	0.0	5.5	60nΔ			18m		5 C	3	54-12W	FP115
29	JANM38510/30006CAC		TTL	4	2.0*Ø	.70Δ	3	11d	0.0	5.5	60nΔ			18m		5 C	3	54-12W	FP115
30	JANM38510/30006CCA		TTL	4	2.0*Ø	.70Δ	3	11d	0.0	5.5	60nΔ			18m		5 C	3	74-12N	DL14bo
31	JANM38510/30006CCB		TTL	4	2.0*Ø	.70Δ	3	11d	0.0	5.5	60nΔ			18m		5 C	3	74-12N	DL14bo
32	JANM38510/30006CCC		TTL	4	2.0*Ø	.70Δ	3	11d	0.0	5.5	60nΔ			18m		5 C	3	74-12N	DL14bo
33	JANM38510/30006CDA		TTL	4	2.0*Ø	.70Δ	3	11d	0.0	5.5	60nΔ			18m		5 C	3	54-12W	FP116
34	JANM38510/30006CDC		TTL	4	2.0*Ø	.70Δ	3	11d	0.0	5.5	60nΔ			18m		5 C	3	54-12W	FP116
35	JANM38510/30007BAA		TTL	4	2.0*	.70Δ	4	11d	0.0	5.5	24nΔ			12m		5 C	2	54-13W	FP115
36	JANM38510/30007BAB		TTL	4	2.0*	.70Δ	4	11d	0.0	5.5	24nΔ			12m		5 C	2	54-13W	FP115
37	JANM38510/30007BAC		TTL	4	2.0*	.70Δ	4	11d	0.0	5.5	24nΔ			12m		5 C	2	54-13W	FP115
38	JANM38510/30007BCA		TTL	4	2.0*	.70Δ	4	11d	0.0	5.5	24nΔ			12m		5 C	2	74-13N	DL14bo
39	JANM38510/30007BCC		TTL	4	2.0*	.70Δ	4	11d	0.0	5.5	24nΔ			12m		5 C	2	74-13N	DL14bo
40	JANM38510/30007BDA		TTL	4	2.0*	.70Δ	4	11d	0.0	5.5	24nΔ			12m		5 C	2	54-13W	FP116
41	JANM38510/30007BDB		TTL	4	2.0*	.70Δ	4	11d	0.0	5.5	24nΔ			12m		5 C	2	54-13W	FP116
42	JANM38510/30007BDC		TTL	4	2.0*	.70Δ	4	11d	0.0	5.5	24nΔ			12m		5 C	2	54-13W	FP116
43	JANM38510/30007CAA		TTL	4	2.0*	.70Δ	4	11d	0.0	5.5	24nΔ			12m		5 C	2	54-13W	FP115
44	JANM38510/30007CAB		TTL	4	2.0*	.70Δ	4	11d	0.0	5.5	24nΔ			12m		5 C	2	54-13W	FP115
45	JANM38510/30007CAC		TTL	4	2.0*	.70Δ	4	11d	0.0	5.5	24nΔ			12m		5 C	2	54-13W	FP115
46	JANM38510/30007CCA		TTL	4	2.0*	.70Δ	4	11d	0.0	5.5	24nΔ			12m		5 C	2	74-13N	DL14bo
47	JANM38510/30007CCC		TTL	4	2.0*	.70Δ	4	11d	0.0	5.5	24nΔ			12m		5 C	2	74-13N	DL14bo
48	JANM38510/30007CDA		TTL	4	2.0*	.70Δ	4	11d	0.0	5.5	24nΔ			12m		5 C	2	54-13W	FP116
49	JANM38510/30007CDB		TTL	4	2.0*	.70Δ	4	11d	0.0	5.5	24nΔ			12m		5 C	2	54-13W	FP116
50	JANM38510/30007CDC		TTL	4	2.0*	.70Δ	4	11d	0.0	5.5	24nΔ			12m		5 C	2	54-13W	FP116
51	JANM38510/30008BAA		TTL	4	2.0*Ø	.70Δ	4	11d	0.0	5.5	60nΔ			12m		5 C	2	54-22W	FP115
52	JANM38510/30008BAB		TTL	4	2.0*Ø	.70Δ	4	11d	0.0	5.5	60nΔ			12m		5 C	2	54-22W	FP115
53	JANM38510/30008BAC		TTL	4	2.0*Ø	.70Δ	4	11d	0.0	5.5	60nΔ			12m		5 C	2	54-22W	FP115
54	JANM38510/30008BCA		TTL	4	2.0*Ø	.70Δ	4	11d	0.0	5.5	60nΔ			12m		5 C	2	74-22N	DL14bo
55	JANM38510/30008BCB		TTL	4	2.0*Ø	.70Δ	4	11d	0.0	5.5	60nΔ			12m		5 C	2	74-22N	DL14bo

5. GATES

IN ORDER OF:(1)TECHNOLOGY(2)TYPE(3)LOGIC(4)
(4)LOGIC(5)TYPE NO.

LINE NO.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN		POWER SUPPLY SPAN		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE		CKTS PER MOD	DRAWINGS	
					3 MIN. (V)	4 MAX. (V)	IN	OUT MAX.	NEG. (V)	POS (V)		RISE TIME (S)	FALL TIME (S)			-	+		LOGIC OR BLOCK	OUTLINE
1	JANM38510/30008BCC		TTL	4	2.0*0	.70Δ	4	11d	0.0	5.5	60nΔ			12m		5	C	2	74-22N	DL14bo
2	JANM38510/30008BDA		TTL	4	2.0*0	.70Δ	4	11d	0.0	5.5	60nΔ			12m		5	C	2	54-22W	FP116
3	JANM38510/30008BDC		TTL	4	2.0*0	.70Δ	4	11d	0.0	5.5	60nΔ			12m		5	C	2	54-22W	FP116
4	JANM38510/30008CAA		TTL	4	2.0*0	.70Δ	4	11d	0.0	5.5	60nΔ			12m		5	C	2	54-22W	FP115
5	JANM38510/30008CAB		TTL	4	2.0*0	.70Δ	4	11d	0.0	5.5	60nΔ			12m		5	C	2	54-22W	FP115
6	JANM38510/30008CAC		TTL	4	2.0*0	.70Δ	4	11d	0.0	5.5	60nΔ			12m		5	C	2	54-22W	FP115
7	JANM38510/30008CCA		TTL	4	2.0*0	.70Δ	4	11d	0.0	5.5	60nΔ			12m		5	C	2	74-22N	DL14bo
8	JANM38510/30008CCB		TTL	4	2.0*0	.70Δ	4	11d	0.0	5.5	60nΔ			12m		5	C	2	74-22N	DL14bo
9	JANM38510/30008CCC		TTL	4	2.0*0	.70Δ	4	11d	0.0	5.5	60nΔ			12m		5	C	2	74-22N	DL14bo
10	JANM38510/30008CDA		TTL	4	2.0*0	.70Δ	4	11d	0.0	5.5	60nΔ			12m		5	C	2	54-22W	FP116
11	JANM38510/30008CDC		TTL	4	2.0*0	.70Δ	4	11d	0.0	5.5	60nΔ			12m		5	C	2	54-22W	FP116
12	JANM38510/30009BAA		TTL	4	2.0*	.70Δ	8	11d	0.0	5.5	38nΔ			6.2m		5	C	1	54S30W	FP115
13	JANM38510/30009BAB		TTL	4	2.0*	.70Δ	8	11d	0.0	5.5	38nΔ			6.2m		5	C	1	54S30W	FP115
14	JANM38510/30009BAC		TTL	4	2.0*	.70Δ	8	11d	0.0	5.5	38nΔ			6.2m		5	C	1	54S30W	FP115
15	JANM38510/30009BCA		TTL	4	2.0*	.70Δ	8	11d	0.0	5.5	38nΔ			6.2m		5	C	1	74-30N	DL14bo
16	JANM38510/30009BCB		TTL	4	2.0*	.70Δ	8	11d	0.0	5.5	38nΔ			6.2m		5	C	1	74-30N	DL14bo
17	JANM38510/30009BCC		TTL	4	2.0*	.70Δ	8	11d	0.0	5.5	38nΔ			6.2m		5	C	1	74-30N	DL14bo
18	JANM38510/30009BDA		TTL	4	2.0*	.70Δ	8	11d	0.0	5.5	38nΔ			6.2m		5	C	1	54S30W	FP116
19	JANM38510/30009BDB		TTL	4	2.0*	.70Δ	8	11d	0.0	5.5	38nΔ			6.2m		5	C	1	54S30W	FP116
20	JANM38510/30009BDC		TTL	4	2.0*	.70Δ	8	11d	0.0	5.5	38nΔ			6.2m		5	C	1	54S30W	FP116
21	JANM38510/30009CAA		TTL	4	2.0*	.70Δ	8	11d	0.0	5.5	38nΔ			6.2m		5	C	1	54S30W	FP115
22	JANM38510/30009CAB		TTL	4	2.0*	.70Δ	8	11d	0.0	5.5	38nΔ			6.2m		5	C	1	54S30W	FP115
23	JANM38510/30009CAC		TTL	4	2.0*	.70Δ	8	11d	0.0	5.5	38nΔ			6.2m		5	C	1	54S30W	FP115
24	JANM38510/30009CCA		TTL	4	2.0*	.70Δ	8	11d	0.0	5.5	38nΔ			6.2m		5	C	1	74-30N	DL14bo
25	JANM38510/30009CCB		TTL	4	2.0*	.70Δ	8	11d	0.0	5.5	38nΔ			6.2m		5	C	1	74-30N	DL14bo
26	JANM38510/30009CCC		TTL	4	2.0*	.70Δ	8	11d	0.0	5.5	38nΔ			6.2m		5	C	1	74-30N	DL14bo
27	JANM38510/30009CDA		TTL	4	2.0*	.70Δ	8	11d	0.0	5.5	38nΔ			6.2m		5	C	1	54S30W	FP116
28	JANM38510/30009CDB		TTL	4	2.0*	.70Δ	8	11d	0.0	5.5	38nΔ			6.2m		5	C	1	54S30W	FP116
29	JANM38510/30009CDC		TTL	4	2.0*	.70Δ	8	11d	0.0	5.5	38nΔ			6.2m		5	C	1	54S30W	FP116
30	S54LS00F		TTL	4	2.0*	.70Δ	2	2	0.0	5.0	15nΔ			22m		5	C	4	74-00N	DL14bh
31	S54LS00W		TTL	4	2.0*	.70Δ	2	2	0.0	5.0	15nΔ			22m		5	C	4	54S00W	FP39e
32	S54LS01F		TTL	4	2.0*0	.70Δ	2	2	0.0	5.0	32nΔ			22m		5	C	4	74-01N	DL14bh
33	S54LS01W		TTL	4	2.0*0	.70Δ	2	2	0.0	5.0	32nΔ			22m		5	C	4	54LS01W	FP39e
34	S54LS03F		TTL	4	2.0*0	.70Δ	2	2	0.0	5.0	32nΔ			22m		5	C	4	74-03N	DL14bh
35	S54LS03W		TTL	4	2.0*0	.70Δ	2	2	0.0	5.0	32nΔ			22m		5	C	4	54S03W	FP39e
36	S54LS10F		TTL	4	2.0*	.70Δ	3	3	0.0	5.0	15nΔ			16m		5	C	3	74-10	DL14bh
37	S54LS10W		TTL	4	2.0*	.70Δ	3	3	0.0	5.0	15nΔ			16m		5	C	3	54S10W	FP39e
38	S54LS12F		TTL	4	2.0*0	.70Δ	3	3	0.0	5.0	32nΔ			16m		5	C	3	74-12N	DL14bh
39	S54LS12W		TTL	4	2.0*0	.70Δ	3	3	0.0	5.0	32nΔ			16m		5	C	3	54-12W	FP39e
40	S54LS20F		TTL	4	2.0*	.70Δ	4	4	0.0	5.0	15nΔ			11m		5	C	2	74-13N	DL14bh
41	S54LS20W		TTL	4	2.0*	.70Δ	4	4	0.0	5.0	15nΔ			11m		5	C	2	54-13W	FP39e
42	S54LS22F		TTL	4	2.0*0	.70Δ	4	4	0.0	5.0	32nΔ			11m		5	C	2	74-22N	DL14bh
43	S54LS22W		TTL	4	2.0*0	.70Δ	4	4	0.0	5.0	32nΔ			11m		5	C	2	54-22W	FP39e
44	S54LS26F		TTL	4	2.0*0	.70Δ	2	2	0.0	5.0	32nΔ			22m		5	C	4	74-03N	DL14bh
45	S54LS26W		TTL	4	2.0*0	.70Δ	2	2	0.0	5.0	32nΔ			22m		5	C	4	54S03W	FP39e
46	S54LS30F		TTL	4	2.0*	.70Δ	8	8	0.0	5.0	20nΔ			5.5m		5	C	1	74-30N	DL14bh
47	S54LS30W		TTL	4	2.0*	.70Δ	8	8	0.0	5.0	20nΔ			5.5m		5	C	1	54S30W	FP39e
48#	SFC400LE		TTL	4	2.0*	.70Δ	2	10	0.0	5.0	60nΔ			10m	400m	0	7	4	74-00N	TO116
49#	SFC400LEM		TTL	4	2.0*	.70Δ	2	10	0.0	5.0	60nΔ			10m	400m	5	7	4	74-00N	TO116
50#	SFC400LJM		TTL	4	2.0*	.70Δ	2	10	0.0	5.0	60nΔ			10m	400m	5	7	4	74-00N	TO116
51#	SFC400LKM		TTL	4	2.0*	.70Δ	2	10	0.0	5.0	60nΔ			10m	400m	5	7	4	74-00N	TO116
52#	SFC400LPM		TTL	4	2.0*	.70Δ	2	10	0.0	5.0	60nΔ			10m	400m	5	7	4	54-00W	TO85
53#	SFC410LE		TTL	4	2.0*	.70Δ	3	10	0.0	5.0	60nΔ			1.0m†	1.0	0	7	3	74-10N	TO116
54#	SFC410LEM		TTL	4	2.0*	.70Δ	3	10	0.0	5.0	60nΔ			1.0m†	1.0	5	7	3	74-10N	TO116
55#	SFC410LPM		TTL	4	2.0*	.70Δ	3	10	0.0	5.0	60nΔ			1.0m†	1.0	2	8	3	74-10N	TO116
56#	SFC420LE		TTL	4	2.0*	.70Δ	4	10	0.0	5.0	60nΔ			1.0m†	1.0m†	0	7	2	74-13N	TO116
57#	SFC420LEM		TTL	4	2.0*	.70Δ	4	10	0.0	5.0	60nΔ			1.0m†	1.0m†	5	7	2	74-13N	TO116
58#	SFC430LEM		TTL	4	2.0*	.70Δ	8	10	0.0	5.0	60nΔ			1.0m†	1.0	5	7	1	74-30N	TO116
59	SN54L00J		TTL	4	2.0*	.70Δ	2	10	0.0	5.0	60nΔ			1.0m†	1.0	5	7	4	74-00N	DL14af
60	SN54L00W		TTL	4	2.0*	.70Δ	2	10	0.0	5.0	60nΔ			1.0m†	1.0	5	7	4	54-00W	FP52e
61	SN54L10J		TTL	4	2.0*	.70Δ	3	10	0.0	5.0	60nΔ			1.0m†	1.0	5	7	3	74-10N	DL14af
62	SN54L10W		TTL	4	2.0*	.70Δ	3	10	0.0	5.0	60nΔ			1.0m†	1.0	5	7	3	54-10W	FP52e
63	SN54L20J		TTL	4	2.0*	.70Δ	4	10	0.0	5.0	60nΔ			1.0m†	1.0	5	7	2	74-13N	DL14af
64	SN54L20W		TTL	4	2.0*	.70Δ	4	10	0.0	5.0	60nΔ			1.0m†	1.0	5	7	2	54-20W	FP52e
65	SN54L30J		TTL	4	2.0*	.70Δ	8	10	0.0	5.0	100nΔ			1.0m†	1.0	5	7	1	74-30N	DL14af
66	SN54L30W		TTL	4	2.0*	.70Δ	8	10	0.0	5.0	60nΔ			1.0m†	1.0	5	7	2	54S30w	FP52e
67	SN54LS00J		TTL	4	2.0*	.70Δ	2	11	0.0	5.0	15nΔ			22m	1.0 *	5	7	4	74-00N	DL14af
68	SN54LS00W		TTL	4	2.0*	.70Δ	2	11	0.0	5.0	15nΔ			22m	1.0 *	5	7	4	54S00W	FP97a
69	SN54LS01J		TTL	4	2.0*0	.70Δ	2	11	0.0	5.0	32nΔ			22m	1.0 *	5	7	4	74-01N	DL14af
70	SN54LS01W		TTL	4	2.0*0	.70Δ	2	11	0.0	5.0	32nΔ			22m	1.0 *	5	7	4	54LS01W	FP97a
71	SN54LS03J		TTL	4	2.0*0	.70Δ	2	11	0.0	5.0	32nΔ			22m	1.0 *	5	7	4	74-03N	DL14af
72	SN54LS03W		TTL	4	2.0*0	.70Δ	2	11	0.0	5.0	32nΔ			22m	1.0 *	5	7	4	54S03W	FP97a
73	SN54LS10J		TTL	4	2.0*	.70Δ	3	11	0.0	5.0	15nΔ			16m	1.0 *	5	7	3	74-10N	DL14af
74	SN54LS10W		TTL	4	2.0*	.70Δ	3	11	0.0	5.0	15nΔ			16m	1.0 *	5	7	3	54S10W	FP97a
75	SN54LS12J		TTL	4	2.0*	.70Δ	3	10	0.0	5.0	32nΔ			16m	300m*	5	7	3	74-12N	DL14af
76	SN54LS12W		TTL	4	2.0*</															

5. GATES

IN ORDER OF:(1)TECHNOLOGY(2)TYPE(3)LOGIC(4)
(5)LOGIC(6)TYPE NO.

LINE NO.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN IN		POWER SUPPLY		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS	
					3 MIN. '1' (V)	4 MAX. '0' (V)	IN	OUT MAX.	NEG. (V)	POS (V)		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE
1	SN54LS26W		TTL	4	2.0*	.70Δ	2	10	0.0	5.0	22nΔ			22m	300m*	5	4	54S03W	MO004AA
2	SN54LS30J		TTL	4	2.0*	.70Δ	8	11	0.0	5.0	20nΔ			5.5m	1.0 *	5	1	74-30N	DL14af
3	SN54LS30W		TTL	4	2.0*	.70Δ	8	11	0.0	5.0	20nΔ			5.5m	1.0 *	5	1	54S30W	FP97a
4	SN54LS37J		TTL	4	2.0*	.70Δ	2	33	0.0	5.0	24nΔ			60m	1.0 *	5	4	74-00N	DL14af
5	SN54LS37W		TTL	4	2.0*	.70Δ	2	33	0.0	5.0	24nΔ			60m	1.0 *	5	4	54S00W	FP97a
6	SN54LS38J		TTL	4	2.0*Ø	.70Δ	2	33	0.0	5.0	32nΔ			60m	1.0 *	5	4	74-03N	DL14af
7	SN54LS38W		TTL	4	2.0*Ø	.70Δ	2	33	0.0	5.0	32nΔ			60m	1.0 *	5	4	54S03W	FP97a
8	SN54LS40J		TTL	4	2.0*	.70Δ	4	33	0.0	5.0	24nΔ			30m	1.0 *	5	2	74-13N	DL14af
9	SN54LS40W		TTL	4	2.0*	.70Δ	4	33	0.0	5.0	24nΔ			30m	1.0 *	5	2	54-13W	FP97a
10	SN54LS133J		TTL	4	2.0*	.70Δ	13	10d	0.0	5.0	38nΔ			5.5m%	300m*	5	5	74S133N	DL16am
11#	T54LS00D2		TTL	4	2.0*	.70Δ	2	11d	0.0	5.0	5.0n			22m%	300m	5	4	74-00N	DL14av
12#	T54LS03D2		TTL	4	2.0*	.70Δ	2	11d	0.0	5.0	14n			22m%	300m	5	4	74-03N	DL14av
13#	T54LS10D2		TTL	4	2.0*	.70Δ	3	11d	0.0	5.0	6.0n			16m%	300m	5	3	74-10N	DL14av
14#	T54LS20D2		TTL	4	2.0*	.70Δ	4	11d	0.0	5.0	7.0n			11m%	300m	5	2	74-13N	DL14av
15#	T54LS22D2		TTL	4	2.0*	.70Δ	4	2.5	0.0	5.0	14n			11m%	300m	5	2	74-13N	DL14av
16#	T54LS26D2		TTL	4	2.0*	.70Δ	2	11d	0.0	5.0	22n			22m%	300m	5	4	74-03N	DL14av
17#	T54LS30D2		TTL	4	2.0*	.70Δ	8	11d	0.0	5.0	9.0n			5.5m%	300m	5	1	74-30N	DL14av
18	6N126		TTL	4	2.0*	.80Δ	2		0	5.5	20nΔ					5	2	54-00W	TO84
19	6N127		TTL	4	2.0*	.80Δ	4		0	5.5	20nΔ					5	2	54-20W	TO84
20	54F00DM		TTL	4	2.0*	.80Δ	2	12	0.0	5.0	3.9n			51m		5	4	74-00N	TO116
21	54F00FM		TTL	4	2.0*	.80Δ	2	12	0.0	5.0	3.9n			51m		5	4	54S00W	FP21h
22	54F10DM		TTL	4	2.0*	.80Δ	3	12	0.0	5.0	3.9n			39m		5	3	74-10N	TO116
23	54F10FM		TTL	4	2.0*	.80Δ	3	12	0.0	5.0	3.9n			39m		5	3	54S10W	FP21h
24	54F20DM		TTL	4	2.0*	.80Δ	4	12	0.0	5.0	3.9n			26m		5	2	74-13N	TO116
25	54F20FM		TTL	4	2.0*	.80Δ	4	12	0.0	5.0	3.9n			26m		5	2	54-13W	FP21h
26	54H00DM		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	10nΔ			200m	1.0	5	4	74-00N	TO116
27	54H00FM		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	10nΔ			200m	1.0	5	4	54-00W	FP21h
28	54H01DM		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	15nΔ			200m	1.0	5	4	74-03N	TO116
29	54H01FM		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	15nΔ			200m	1.0	5	4	54-01W	FP21h
30	54H10DM		TTL	4	2.0*	.80Δ	3	10	0.0	5.0	10nΔ			150m	1.0	5	3	74-10N	TO116
31	54H10FM		TTL	4	2.0*	.80Δ	3	10	0.0	5.0	10nΔ			150m	1.0	5	3	54-10W	FP21h
32	54H20DM		TTL	4	2.0*	.80Δ	4	10	0.0	5.0	10nΔ			100m	1.0	5	2	74-13N	TO116
33	54H20FM		TTL	4	2.0*	.80Δ	4	10	0.0	5.0	10nΔ			100m	1.0	5	2	54-20W	FP21h
34	54H22DM		TTL	4	2.0*	.80Δ	4	10	0.0	5.0	15nΔ			100m	1.0	5	2	74-22N	TO116
35	54H22FM		TTL	4	2.0*	.80Δ	4	10	0.0	5.0	15nΔ			100m	1.0	5	2	54H22W	FP21h
36	54H30DM		TTL	4	2.0*	.80Δ	8	10	0.0	5.0	12nΔ			40m	1.0	5	1	74-30N	TO116
37	54H30FM		TTL	4	2.0*	.80Δ	8	10	0.0	5.0	12nΔ			40m	1.0	5	1	54-30W	FP21h
38	54S00DM		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	3.0n			180m	1.0	5	4	74-00N	TO116
39	54S00FM		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	3.0n			180m	1.0	5	4	54S00W	FP21h
40	54S03DM		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	7.5nΔ			180m	1.0	5	4	74-03N	TO116
41	54S10DM		TTL	4	2.0*	.80Δ	3	10	0.0	5.0	3.0n			135m	1.0	5	3	74-10N	TO116
42	54S10FM		TTL	4	2.0*	.80Δ	3	10	0.0	5.0	3.0n			135m	1.0	5	3	54S10W	FP21h
43	54S20DM		TTL	4	2.0*	.80Δ	4	10	0.0	5.0	5.0nΔ			38m†	1.0	5	2	74-13N	TO116
44	54S20FM		TTL	4	2.0*	.80Δ	4	10	0.0	5.0	5.0nΔ			38m†	1.0	5	2	54-13W	FP21h
45	54S22DM		TTL	4	2.0*	.80Δ	4	10	0.0	5.0	7.5nΔ			34m†	1.0	5	2	74-22N	TO116
46	54S30DM		TTL	4	2.0*	.80Δ	8	20	0.0	5.0	22nΔ					5	1	74-30N	DL14ba
47	54S30FM		TTL	4	2.0*	.80Δ	8	20	0.0	5.0	22nΔ					5	1	54S30W	FP52
48	54S133DM		TTL	4	2.0*	.80Δ	13	10b	0.0	5.0	7.0n			50m	300m*	5	5	74S133N	DL16cj
49	54S133FM		TTL	4	2.0*	.80Δ	13	10b	0.0	5.0	7.0n			50m	300m*	5	5	54S133W	FP103
50	54S134FM		TTL	4	2.0*§	.80Δ	12	10b	0.0	5.0	7.5n			125m	300m*	5	4	54S134W	FP103
51	74F00DC		TTL	4	2.0*	.80Δ	2	12	0.0	5.0	3.9n			51m		0	7	74-00N	TO116
52	74F00PC		TTL	4	2.0*	.80Δ	2	12	0.0	5.0	3.9n			39m		0	7	74-00N	DL14ce
53	74F10DC		TTL	4	2.0*	.80Δ	3	12	0.0	5.0	3.9n			39m		0	7	74-10N	TO116
54	74F10PC		TTL	4	2.0*	.80Δ	3	12	0.0	5.0	3.9n			39m		0	7	74-10N	DL16cj
55	74F20DC		TTL	4	2.0*	.80Δ	4	12	0.0	5.0	3.9n			26m		0	7	74-13N	TO116
56	74F20PC		TTL	4	2.0*	.80Δ	4	12	0.0	5.0	3.9n			26m		0	7	74-13N	DL14ce
57	74H00DC		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	10nΔ			200m	1.0	0	7	74-00N	TO116
58	74H00PC		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	10nΔ			200m	1.0	0	7	74-00N	DL14ce
59	74H01DC		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	9.0nΔ			90m†	1.0	0	7	74-03N	TO116
60	74H01PC		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	9.0nΔ			90m†	1.0	0	7	74-03N	DL14ce
61	74H10DC		TTL	4	2.0*	.80Δ	3	10	0.0	5.0	10nΔ			90m†	1.0	0	7	74-10N	TO116
62	74H10PC		TTL	4	2.0*	.80Δ	3	10	0.0	5.0	10nΔ			90m†	1.0	0	7	74-10N	DL14ce
63	74H20DC		TTL	4	2.0*	.80Δ	4	10	0.0	5.0	10nΔ			100m	1.0	0	7	74-13N	TO116
64	74H20PC		TTL	4	2.0*	.80Δ	4	10	0.0	5.0	10nΔ			100m	1.0	0	7	74-13N	DL14ce
65	74H22DC		TTL	4	2.0*	.80Δ	4	10	0.0	5.0	15nΔ			100m	1.0	0	7	74-22N	TO116
66	74H22PC		TTL	4	2.0*	.80Δ	4	10	0.0	5.0	15nΔ			100m	1.0	0	7	74-22N	DL14ce
67	74H30DC		TTL	4	2.0*	.80Δ	8	10	0.0	5.0	12nΔ			50m	1.0	0	7	74-30N	TO116
68	74H30PC		TTL	4	2.0*	.80Δ	8	10	0.0	5.0	12nΔ			50m	1.0	0	7	74-30N	DL14ce
69	74LS00DC		TTL	4	2.0*	.80Δ	2	2.5	0.0	5.0	5.0n			22m%	300m	0	7	74-00N	TO116
70	74LS00PC		TTL	4	2.0*	.80Δ	2	2.5	0.0	5.0	5.0n			22m%	300m	0	7	74-00N	DL14ce
71	74LS03DC		TTL	4	2.0*	.80Δ	2	5	0.0	5.0	14n			22m%	300m	0	7	74-03N	TO116
72	74LS03PC		TTL	4	2.0*	.80Δ	2	5	0.0	5.0	14n			22m%	300m	0	7	74-03N	DL14ce
73	74LS10DC		TTL	4	2.0*	.80Δ	3	5	0.0	5.0	6.0n			16m%	300m	0	7	74-10N	TO116
74	74LS10PC		TTL	4	2.0*	.80Δ	3	5	0.0	5.0	6.0n			16m%	300m	0	7	74-10N	DL14ce
75	74LS20DC		TTL	4	2.0*	.80Δ	4	5	0.0	5.0	7.0n			11m%	300m	0	7	74-13N	TO116
76	74LS20PC		TTL	4	2.0*	.80Δ	4	5	0.0	5.0	7.0n			11m%	300m	0	7	74-13N	DL14ce
77	74LS22DC		TTL	4	2.0*	.80Δ	4	5	0.0	5.0	14n			11m%	300m	0	7	74-22N	TO116
78	74LS22PC		TTL	4	2.0*	.80Δ	4	5	0.0	5.0	14n			11m%	300m	0	7	74-22N	DL14ce
79	74LS26DC		TTL	4	2.0*Ø	.80Δ	2	22d	0.0	5.0	22nΔ			22m%	300m*	0	7	74-03N	TO116
80	74LS26PC		TTL	4	2.0*Ø	.80Δ	2	22d	0.0	5.0	22nΔ			22m%	300m*	0	7		

5. GATES

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC (4) LOGIC (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN		POWER SUPPLY SPAN		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS		
					3 MIN. (V)	4 MAX. (V)	IN	OUT MAX.	NEG.	POS		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE	
1	7401PC		TTL	4	2.0*	80Δ	2	10	0.0	5.0	30n			110m	1.0	0	7	4	74-01N	DL14ce
2	7403DC		TTL	4	2.0*	80Δ	2	10	0.0	5.0	45nΔ			40mt	1.0	0	7	4	74-03N	TO116
3	7403PC		TTL	4	2.0*	80Δ	2	10	0.0	5.0	45nΔ			40mt	1.0	0	7	4	74-03N	DL14ce
4	7410PC		TTL	4	2.0*	80Δ	3	10	0.0	5.0	22nΔ			10m	1.0	0	7	3	74-09N	DL14ce
5 #	7412PC		TTL	4	2.0*	80Δ	4	10	0.0	5.0	45nΔ					0	7	3	74-12N	DL14cr
6	7420DC		TTL	4	2.0*	80Δ	4	10	0.0	5.0	22nΔ			20mt	1.0	0	7	2	74-13N	TO116
7	7420PC		TTL	4	2.0*	80Δ	4	10	0.0	7.0	22nΔ			10m	1.0	0	7	2	74-13N	DL14ce
8	7426DC		TTL	4	2.0*	80Δ	2	10	0.0	5.0	24nΔ			110m%		0	7	4	74-03N	TO116
9	7426PC		TTL	4	2.0*	80Δ	2	10	0.0	5.0	24nΔ			110m%		0	7	4	74-03N	DL14ce
10	7430DC		TTL	4	2.0*	80Δ	8	10	0.0	5.0	22nΔ			10mt	1.0	0	7	1	74-30N	TO116
11	7430PC		TTL	4	2.0*	80Δ	8	10	0.0	5.0	22nΔ			10mt	1.0	0	7	1	74-30N	DL14ce
12	7437DC		TTL	4	2.0*	80Δ	2	10	0.0	5.0	22nΔ			297m		0	7	4	74-00N	TO116
13	7437PC		TTL	4	2.0*	80Δ	2	10	0.0	5.0	22nΔ			297m		0	7	4	74-00N	DL14ce
14	7438DC		TTL	4	2.0*	80Δ	2	10	0.0	5.0	22nΔ			297m		0	7	4	74-03N	TO116
15	7438PC		TTL	4	2.0*	80Δ	2	10	0.0	5.0	22nΔ			297m		0	7	4	74-03N	DL14ce
16	DM54H00J		TTL	4	2.0*	80Δ	2	10	0.0	5.0	10nΔ			84m	400m	5	C	4	74-00N	DL14ax
17	DM54H01J		TTL	4	2.0*	80Δ	2	10	0.0	5.0	15nΔ			200m	400m	5	C	4	74-03N	DL14ax
18	DM54H10J		TTL	4	2.0*	80Δ	3	10	0.0	5.0	10nΔ			150m	400m	5	C	3	74-10N	DL14ax
19	DM54H20J		TTL	4	2.0*	80Δ	4	10	0.0	5.0	10nΔ			100m	400m	5	C	2	74-13N	DL14ax
20	DM54H30J		TTL	4	2.0*	80Δ	8	10	0.0	5.0	12nΔ			50m	400m	5	C	1	74-30N	DL14ax
21	DM54H40J		TTL	4	2.0*	80Δ	4	10	0.0	5.0	12nΔ			200m	400m	5	C	2	74-13N	DL14ax
22	DM74H00N		TTL	4	2.0*	80Δ	2	10	0.0	5.0	10nΔ			84m	400m	0	7	4	74-00N	DL14bt
23	DM74H01J		TTL	4	2.0*	80Δ	2	10	0.0	5.0	15nΔ			200m	400m	0	7	4	74-03N	DL14ax
24	DM74H01N		TTL	4	2.0*	80Δ	2	10	0.0	5.0	15nΔ			200m	400m	0	7	4	74-03N	DL14bt
25	DM74H10N		TTL	4	2.0*	80Δ	3	10	0.0	5.0	10nΔ			150m	400m	0	7	3	74-10N	DL14bt
26	DM74H20N		TTL	4	2.0*	80Δ	4	10	0.0	5.0	10nΔ			100m	400m	0	7	2	74-13N	DL14bt
27	DM74H22N		TTL	4	2.0*	80Δ	4	10	0.0	5.0	15nΔ			100m	400m	0	7	2	74-22N	DL14bt
28	DM74H30N		TTL	4	2.0*	80Δ	8	10	0.0	5.0	12nΔ			50m	400m	0	7	1	74-30N	DL14bt
29	DM74H40N		TTL	4	2.0*	80Δ	4	10	0.0	5.0	12nΔ			200m	400m	0	7	2	74-13N	DL14bt
30	DM74S00N		TTL	4	2.0*	80Δ	2	10	0.0	5.0	5.0nΔ			76mt	400m	0	7	4	74-00N	DL14bt
31	DM74S03N		TTL	4	2.0*	80Δ	2	10	0.0	5.0	7.0nΔ			68mt	400m	0	7	4	74-03N	DL14bt
32	DM74S10N		TTL	4	2.0*	80Δ	3	10	0.0	5.0	5.0nΔ			57mt	400m	0	7	3	74-10	DL14bt
33	DM74S20N		TTL	4	2.0*	80Δ	4	10	0.0	5.0	5.0nΔ			38mt	400m	0	7	2	74-13N	DL14bt
34	DM74S22N		TTL	4	2.0*	80Δ	4	10	0.0	5.0	7.0nΔ			34mt	400m	0	7	2	74-22N	DL14bt
35	DM74S40N		TTL	4	2.0*	80Δ	4	10	0.0	5.0	6.5nΔ			82mt	400m	0	7	2	74-13N	DL14bt
36	DM74S140N		TTL	4	2.0*	80Δ	4	10	0.0	5.0	6.5nΔ			82mt	400m	0	7	2	74-13N	DL14bt
37	DM5400J		TTL	4	2.0*	80Δ	2	10	0.0	5.0	25nΔ			40mt	400m	5	C	4	74-00N	DL14bt
38	DM5400W		TTL	4	2.0*	80Δ	2	10	0.0	5.0	25nΔ			40mt	400m	5	C	4	54-00W	FP97a
39	DM5401J		TTL	4	2.0*	80Δ	2	10	0.0	5.0	45nΔ			102m	400m	5	C	4	74-01	DL14ax
40	DM5401W		TTL	4	2.0*	80Δ	2	10	0.0	5.0	45nΔ			102m	400m	5	C	4	54-01W	FP97a
41	DM5403J		TTL	4	2.0*	80Δ	2	10	0.0	5.0	45nΔ			120m	400m	5	C	4	74-03N	DL14ax
42	DM5410J		TTL	4	2.0*	80Δ	3	10	0.0	5.0	25nΔ			30mt	400m	5	C	3	74-10N	DL14ax
43	DM5410W		TTL	4	2.0*	80Δ	3	10	0.0	5.0	25nΔ			30mt	400m	5	C	3	54-10W	FP97a
44	DM5420J		TTL	4	2.0*	80Δ	4	10	0.0	5.0	25nΔ			20mt	400m	5	C	2	74-13N	DL14ax
45	DM5420W		TTL	4	2.0*	80Δ	4	10	0.0	5.0	25nΔ			20mt	400m	5	C	2	54-20W	FP97a
46	DM5430J		TTL	4	2.0*	80Δ	8	10	0.0	5.0	22nΔ			10mt	400m	5	C	1	74-30N	DL14ax
47	DM5430W		TTL	4	2.0*	80Δ	8	10	0.0	5.0	22nΔ			10mt	400m	5	C	1	54-30W	FP97a
48	DM5437J		TTL	4	2.0*	80Δ	2	30	0.0	5.0	22nΔ			1.0	1.0 †	5	C	4	74-00N	DL14ax
49	DM5437W		TTL	4	2.0*	80Δ	2	30	0.0	5.0	22nΔ			1.0	1.0 †	5	C	4	54S00W	FP97a
50	DM5438J		TTL	4	2.0*	80Δ	2	30	0.0	5.0	22nΔ			1.0	1.0 †	5	C	4	74-03N	DL14ax
51	DM5438W		TTL	4	2.0*	80Δ	2	30	0.0	5.0	22nΔ			1.0	1.0 †	5	C	4	54S03W	FP97a
52	DM5440J		TTL	4	2.0*	80Δ	4	30	0.0	5.0	25nΔ			114m	400m	5	C	2	74-13N	DL14ax
53	DM5440W		TTL	4	2.0*	80Δ	4	30	0.0	5.0	25nΔ			114m	400m	5	C	2	54-40W	FP97a
54	DM7091J		TTL	4	2.0*	80Δ	2	30	0.0	5.0	22nΔ			230m		5	C	4	74-00N	DL14ax
55	DM7091N		TTL	4	2.0*	80Δ	2	30	0.0	5.0	22nΔ			230m		5	C	4	74-00N	DL14bt
56	DM7091W		TTL	4	2.0*	80Δ	2	30	0.0	5.0	22nΔ			230m		5	C	4	74-00N	FP97a
57	DM7092J		TTL	4	2.0*	80Δ	5	10	0.0	5.0	25nΔ			51m		5	C	2	G04-3bb	DL14ax
58	DM7092N		TTL	4	2.0*	80Δ	5	10	0.0	5.0	25nΔ			51m		5	C	2	G04-3bb	DL14bt
59	DM7092W		TTL	4	2.0*	80Δ	5	10	0.0	5.0	25nΔ			51m		5	C	2	G04-3bb	FP97a
60	DM7400N		TTL	4	2.0*	80Δ	2	10	0.0	5.0	25nΔ			40mt	400m	0	7	4	74-00N	DL14bt
61	DM7401N		TTL	4	2.0*	80Δ	2	10	0.0	5.0	45nΔ			102m	400m	0	7	4	74-01N	DL14bt
62	DM7403N		TTL	4	2.0*	80Δ	2	10	0.0	5.0	45nΔ			120m	400m	0	7	4	74-03N	DL14bt
63	DM7410N		TTL	4	2.0*	80Δ	3	10	0.0	5.0	25nΔ			30mt	400m	0	7	3	74-10N	DL14bt
64	DM7420N		TTL	4	2.0*	80Δ	4	10	0.0	5.0	25nΔ			20mt	400m	0	7	2	74-13N	DL14bt
65	DM7430N		TTL	4	2.0*	80Δ	8	10	0.0	5.0	22nΔ			10mt	400m	0	7	1	74-30N	DL14bt
66	DM7437N		TTL	4	2.0*	80Δ	2	30	0.0	5.0	22nΔ			1.0	1.0 †	0	7	4	74-00N	DL14bt
67	DM7438N		TTL	4	2.0*	80Δ	2	30	0.0	5.0	22nΔ			1.0	1.0 †	0	7	4	74-03N	DL14bt
68	DM7440N		TTL	4	2.0*	80Δ	4	30	0.0	5.0	25nΔ			114m	400m	0	7	2	74-13N	DL14bt
69	DM8091J		TTL	4	2.0*	80Δ	2	30	0.0	5.0	22nΔ			230m		0	7	4	74-00N	DL14ax
70	DM8091N		TTL	4	2.0*	80Δ	2	30	0.0	5.0	22nΔ			230m		0	7	4	74-00N	DL14bt
71	DM8091W		TTL	4	2.0*	80Δ	2	30	0.0	5.0	22nΔ			230m		0	7	4	74-00N	FP97a
72	DM8092J		TTL	4	2.0*	80Δ	5	10	0.0	5.0	25nΔ			51m		0	7	2	G04-3bb	DL14ax
73	DM8092N		TTL	4	2.0*	80Δ	5	10	0.0	5.0	25nΔ			51m		0	7	2	G04-3bb	DL14bt
74	DM8092W		TTL	4	2.0*	80Δ	5	10	0.0	5.0	25nΔ			51m		0	7	2	G04-3bb	FP97a
75 #	FJH101-7430		TTL	4	2.0*	80Δ	8	10	0.0	5.0	11n			10mt	1.0	0	7	1	74-30N	DL14s
76 #	FJH111-7420		TTL	4	2.0*	80Δ	4	10	0.0	5.0	11n			20mt	1.0	0	7	2	74-13N	DL14s
77 #	FJH121-7410		TTL	4	2.0*	80Δ	3	10	0.0	5.0										

5. GATES

IN ORDER OF:(1)TECHNOLOGY(2)TYPE(3)LOGIC*1
(4)LOGIC*5)TYPE NO.

LINE NO.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN IN	FAN OUT MAX.	POWER SUPPLY		PROPAGATION DELAY (S)	MAXIMUM RISE TIME (S)	MAXIMUM FALL TIME (S)	MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS		
					3 MIN. (V)	4 MAX. (V)			NEG. (V)	POS (V)								LOGIC OR BLOCK	OUTLINE	
1▼	M74ALS03AP		TTL	4	2.0*	0.8			0.0	5.0	54n			17m		2	7	4	74-03N	DL14cf
2▼	M74ALS10P		TTL	4	2.0*	0.8			0.0	5.0	18n			12m		2	7	3	74-10N	DL14cf
3▼	M74ALS12P		TTL	4	2.0*	0.8			0.0	5.0	54n			12m		2	7	3	74-12N	DL14cf
4▼	M74ALS20AP		TTL	4	2.0*	0.8			0.0	5.0	11n			8.3m		2	7	2	74-13N	DL14cf
5▼	M74ALS22AP		TTL	4	2.0*	0.8			0.0	5.0	54n			8.3m		2	7	2	74-22N	DL14cf
6▼	M74ALS30P		TTL	4	2.0*	0.8			0.0	5.0	20n			5m		2	7	1	74-30N	DL14cf
7▼	M74ALS37P		TTL	4	2.0*	0.8			0.0	5.0	8n			35m		2	7	4	G04-464	DL14cf
8▼	M74ALS38P		TTL	4	2.0*	0.8			0.0	5.0	33n			35m		2	7	4	G04-464	DL14cf
9▼	M74ALS40P		TTL	4	2.0*	0.8			0.0	5.0	8n			18m		2	7	2	74-13N	DL14cf
10▼	M74ALS1000P		TTL	4	2.0*	0.8			0.0	5.0	8n			35m		2	7	4	G04-464	DL14cf
11▼	M74ALS1003P		TTL	4	2.0*	0.8			0.0	5.0	33n			35m		2	7	4	G04-464	DL14cf
12▼	M74ALS1020P		TTL	4	2.0*	0.8			0.0	5.0	8n			18m		2	7	2	74-13N	DL14cf
13#	M74LS00P		TTL	4	2.0*	.80Δ	2	20	0.0	5.0	10nΔ			8.0m†	400m*	2	7	4	74-00N	DL14cf
14#	M74LS03P		TTL	4	2.0*	.80Δ	2	20	0.0	5.0	22nΔ			8.0m†	400m*	2	7	4	74-03N	DL14cf
15#	M74LS10P		TTL	4	2.0*	.80Δ	3	20	0.0	5.0	10nΔ			6.0m†	400m*	2	7	3	74-10N	DL14cf
16#	M74LS12P		TTL	4	2.0*	.80Δ	3	20	0.0	5.0	22nΔ			6.0m†	400m*	2	7	3	74-12N	DL14cf
17#	M74LS20P		TTL	4	2.0*	.80Δ	4	20	0.0	5.0	14nΔ			4.0m†	400m*	2	7	2	74-13N	DL14cf
18#	M74LS22P		TTL	4	2.0*	.80Δ	4	20	0.0	5.0	22nΔ			4.0m†	400m*	2	7	2	74-22N	DL14cf
19#	M74LS30P		TTL	4	2.0*	.80Δ	8	20	0.0	5.0	21nΔ			2.5m†	400m*	2	7	1	74-30N	DL14cf
20#	M74LS37P		TTL	4	2.0*	.80Δ	2	66d	0.0	5.0	20nΔ			35m	400m*	2	7	4	74-00N	DL14cf
21#	M74LS38P		TTL	4	2.0*	.80Δ	2	66d	0.0	5.0	22nΔ			35m	400m*	2	7	4	74-03N	DL14cf
22#	M74LS40P		TTL	4	2.0*	.80			0.0	5.0	24n			30m	1.0	2	7	2	74-13N	DL14aa
23#	M74LS133P		TTL	4	2.0*	.80Δ	13	20	0.0	5.0	38nΔ			2.5m†	400m*	2	7	1	74S133N	DL16bm
24	JANM38510/00101BAA		TTL	4	2.0*	.80Δ	8	10	0.0	5.5	25nΔ			40m		5	C	1	54-30W	FP115
25	JANM38510/00101BAB		TTL	4	2.0*	.80Δ	8	10	0.0	5.5	25nΔ			40m		5	C	1	54-30W	FP115
26	JANM38510/00101BAC		TTL	4	2.0*	.80Δ	8	10	0.0	5.5	25nΔ			40m		5	C	1	54-30W	FP115
27	JANM38510/00101BCA		TTL	4	2.0*	.80Δ	8	10	0.0	5.5	25nΔ			40m		5	C	1	74-30N	DL14bo
28	JANM38510/00101BCB		TTL	4	2.0*	.80Δ	8	10	0.0	5.5	25nΔ			40m		5	C	1	74-30N	DL14bo
29	JANM38510/00101BDA		TTL	4	2.0*	.80Δ	8	10	0.0	5.5	25nΔ			40m		5	C	1	54-30W	FP116
30	JANM38510/00101BDB		TTL	4	2.0*	.80Δ	8	10	0.0	5.5	25nΔ			40m		5	C	1	54-30W	FP116
31	JANM38510/00101CAA		TTL	4	2.0*	.80Δ	8	10	0.0	5.5	25nΔ			40m		5	C	1	54-30W	FP115
32	JANM38510/00101CAB		TTL	4	2.0*	.80Δ	8	10	0.0	5.5	25nΔ			40m		5	C	1	54-30W	FP115
33	JANM38510/00101CAC		TTL	4	2.0*	.80Δ	8	10	0.0	5.5	25nΔ			40m		5	C	1	54-30W	FP115
34	JANM38510/00101CCA		TTL	4	2.0*	.80Δ	8	10	0.0	5.5	25nΔ			40m		5	C	1	74-30N	DL14bo
35	JANM38510/00101CCB		TTL	4	2.0*	.80Δ	8	10	0.0	5.5	25nΔ			40m		5	C	1	74-30N	DL14bo
36	JANM38510/00101CDA		TTL	4	2.0*	.80Δ	8	10	0.0	5.5	25nΔ			40m		5	C	1	54-30	FP116
37	JANM38510/00101CDB		TTL	4	2.0*	.80Δ	8	10	0.0	5.5	25nΔ			40m		5	C	1	54-30W	FP116
38	JANM38510/00102BAA		TTL	4	2.0*	.80Δ	4	10	0.0	5.5	25nΔ			80m		5	C	2	54-20W	FP115
39	JANM38510/00102BAB		TTL	4	2.0*	.80Δ	4	10	0.0	5.5	25nΔ			80m		5	C	2	54-20W	FP115
40	JANM38510/00102BAC		TTL	4	2.0*	.80Δ	4	10	0.0	5.5	25nΔ			80m		5	C	2	54-20W	FP115
41	JANM38510/00102BCA		TTL	4	2.0*	.80Δ	4	10	0.0	5.5	25nΔ			80m		5	C	2	74-13N	DL14bo
42	JANM38510/00102BCB		TTL	4	2.0*	.80Δ	4	10	0.0	5.5	25nΔ			80m		5	C	2	74-13N	DL14bo
43	JANM38510/00102BDA		TTL	4	2.0*	.80Δ	4	10	0.0	5.5	25nΔ			80m		5	C	2	54-20W	FP116
44	JANM38510/00102BDB		TTL	4	2.0*	.80Δ	4	10	0.0	5.5	25nΔ			80m		5	C	2	54-20W	FP116
45	JANM38510/00102CAA		TTL	4	2.0*	.80Δ	4	10	0.0	5.5	25nΔ			80m		5	C	2	54-20W	FP115
46	JANM38510/00102CAB		TTL	4	2.0*	.80Δ	4	10	0.0	5.5	25nΔ			80m		5	C	2	54-20W	FP1*5
47	JANM38510/00102CAC		TTL	4	2.0*	.80Δ	4	10	0.0	5.5	25nΔ			80m		5	C	2	54-20W	FP115
48	JANM38510/00102CCA		TTL	4	2.0*	.80Δ	4	10	0.0	5.5	25nΔ			80m		5	C	2	74-13N	DL14bo
49	JANM38510/00102CCB		TTL	4	2.0*	.80Δ	4	10	0.0	5.5	25nΔ			80m		5	C	2	74-13N	DL14bo
50	JANM38510/00102CDA		TTL	4	2.0*	.80Δ	4	10	0.0	5.5	25nΔ			80m		5	C	2	54-20W	FP116
51	JANM38510/00102CDB		TTL	4	2.0*	.80Δ	4	10	0.0	5.5	25nΔ			80m		5	C	2	54-20W	FP116
52	JANM38510/00103BAA		TTL	4	2.0*	.80Δ	3	10	0.0	5.5	25nΔ			120m		5	C	3	54-10W	FP115
53	JANM38510/00103BAB		TTL	4	2.0*	.80Δ	3	10	0.0	5.5	25nΔ			120m		5	C	3	54-10W	FP115
54	JANM38510/00103BAC		TTL	4	2.0*	.80Δ	3	10	0.0	5.5	25nΔ			120m		5	C	3	54-10W	FP115
55	JANM38510/00103BCA		TTL	4	2.0*	.80Δ	3	10	0.0	5.5	25nΔ			120m		5	C	3	74-10N	DL14bo
56	JANM38510/00103BCB		TTL	4	2.0*	.80Δ	3	10	0.0	5.5	25nΔ			120m		5	C	3	74-10N	DL14bo
57	JANM38510/00103BDA		TTL	4	2.0*	.80Δ	3	10	0.0	5.5	25nΔ			120m		5	C	3	54-10W	FP116
58	JANM38510/00103BDB		TTL	4	2.0*	.80Δ	3	10	0.0	5.5	25nΔ			120m		5	C	3	54-10W	FP116
59	JANM38510/00103CAA		TTL	4	2.0*	.80Δ	3	10	0.0	5.5	25nΔ			120m		5	C	3	54-10W	FP115
60	JANM38510/00103CAB		TTL	4	2.0*	.80Δ	3	10	0.0	5.5	25nΔ			120m		5	C	3	54-10W	FP115
61	JANM38510/00103CAC		TTL	4	2.0*	.80Δ	3	10	0.0	5.5	25nΔ			120m		5	C	3	54-10W	FP115
62	JANM38510/00103CCA		TTL	4	2.0*	.80Δ	3	10	0.0	5.5	25nΔ			120m		5	C	3	74-10N	DL14bo
63	JANM38510/00103CCB		TTL	4	2.0*	.80Δ	3	10	0.0	5.5	25nΔ			120m		5	C	3	74-10N	DL14bo
64	JANM38510/00103CDA		TTL	4	2.0*	.80Δ	3	10	0.0	5.5	25nΔ			120m		5	C	3	54-10W	FP116
65	JANM38510/00103CDB		TTL	4	2.0*	.80Δ	3	10	0.0	5.5	25nΔ			120m		5	C	3	54-10W	FP116
66	JANM38510/00104BAA		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	25nΔ			160m		5	C	4	54-00W	FP115

5. GATES

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC (4) LOGIC (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN		POWER SUPPLY SPAN		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS	
					3 MIN. '1' (V)	4 MAX. '0' (V)	IN	OUT MAX.	NEG. (V)	POS (V)		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE
1	JANM38510/00104BAB		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	25nΔ			160m	5	C	4	54-00W	FP115
2	JANM38510/00104BAC		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	25nΔ			160m	5	C	4	54-00W	FP115
3	JANM38510/00104BCA		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	25nΔ			160m	5	C	4	74-00N	DL14bo
4	JANM38510/00104BCB		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	25nΔ			160m	5	C	4	74-00N	DL14bo
5	JANM38510/00104BDA		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	25nΔ			160m	5	C	4	54-00W	FP116
6	JANM38510/00104BDB		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	25nΔ			160m	5	C	4	54-00W	FP116
7	JANM38510/00104CAA		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	25nΔ			160m	5	C	4	54-00W	FP115
8	JANM38510/00104CAB		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	25nΔ			160m	5	C	4	54-00W	FP115
9	JANM38510/00104CAC		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	25nΔ			160m	5	C	4	54-00W	FP115
10	JANM38510/00104CCA		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	25nΔ			160m	5	C	4	74-00N	DL14bo
11	JANM38510/00104CCB		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	25nΔ			160m	5	C	4	74-00N	DL14bo
12	JANM38510/00104CDA		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	25nΔ			160m	5	C	4	54-00W	FP116
13	JANM38510/00104CDB		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	25nΔ			160m	5	C	4	54-00W	FP116
14	JANM38510/00106BCB		TTL	4	2.0*	.80Δ	3	10	0.0	5.5	35nΔ			120m	5	C	3	74-12N	DL14bo
15	JANM38510/00106CCB		TTL	4	2.0*	.80Δ	3	10	0.0	5.5	35nΔ			120m	5	C	3		DL14bo
16	JANM38510/00107BAA		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	28nΔ			160m	5	C	4	54-01W	FP115
17	JANM38510/00107BAB		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	28nΔ			160m	5	C	4	54-01W	FP115
18	JANM38510/00107BAC		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	28nΔ			160m	5	C	4	54-01W	FP115
19	JANM38510/00107BCA		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	28nΔ			160m	5	C	4	74-01N	DL14bo
20	JANM38510/00107BCB		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	28nΔ			160m	5	C	4	74-01N	DL14bo
21	JANM38510/00107BDA		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	28nΔ			160m	5	C	4	54-01W	FP116
22	JANM38510/00107BDB		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	28nΔ			160m	5	C	4	54-01W	FP116
23	JANM38510/00107CAA		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	28nΔ			160m	5	C	4	54-01W	FP115
24	JANM38510/00107CAB		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	28nΔ			160m	5	C	4	54-01W	FP115
25	JANM38510/00107CAC		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	28nΔ			160m	5	C	4	54-01W	FP115
26	JANM38510/00107CCA		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	28nΔ			160m	5	C	4	74-01N	DL14bo
27	JANM38510/00107CCB		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	28nΔ			160m	5	C	4	74-01N	DL14bo
28	JANM38510/00107CDA		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	28nΔ			160m	5	C	4	54-01W	FP116
29	JANM38510/00107CDB		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	28nΔ			160m	5	C	4	54-01W	FP116
30	JANM38510/00109BCA		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	28nΔ			160m	5	C	4	74-03N	DL14bo
31	JANM38510/00109BCB		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	28nΔ			160m	5	C	4	74-03N	DL14bo
32	JANM38510/00109CCA		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	28nΔ			160m	5	C	4	74-03N	DL14bo
33	JANM38510/00109CCB		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	28nΔ			160m	5	C	4	74-03N	DL14bo
34	JANM38510/02301BAA		TTL	4	2.0*	.80Δ	8	10	0.0	5.5	18nΔ			60m	5	C	1	54-30W	FP115
35	JANM38510/02301BAB		TTL	4	2.0*	.80Δ	8	10	0.0	5.5	18nΔ			60m	5	C	1	54-30W	FP115
36	JANM38510/02301BAC		TTL	4	2.0*	.80Δ	8	10	0.0	5.5	18nΔ			60m	5	C	1	54-30W	FP115
37	JANM38510/02301BCA		TTL	4	2.0*	.80Δ	8	10	0.0	5.0	18nΔ			60m	5	C	1	74-30N	DL14bo
38	JANM38510/02301BCB		TTL	4	2.0*	.80Δ	8	10	0.0	5.5	18nΔ			60m	5	C	1	74-30N	DL14bo
39	JANM38510/02301BDA		TTL	4	2.0*	.80Δ	8	10	0.0	5.5	18nΔ			60m	5	C	1	54-30W	FP116
40	JANM38510/02301CAA		TTL	4	2.0*	.80Δ	8	10	0.0	5.5	18nΔ			60m	5	C	1	54-30W	FP115
41	JANM38510/02301CAB		TTL	4	2.0*	.80Δ	8	10	0.0	5.5	18nΔ			60m	5	C	1	54-30W	FP115
42	JANM38510/02301CAC		TTL	4	2.0*	.80Δ	8	10	0.0	5.5	18nΔ			60m	5	C	1	54-30W	FP115
43	JANM38510/02301CCA		TTL	4	2.0*	.80Δ	8	10	0.0	5.0	18nΔ			60m	5	C	1	74-30N	DL14bo
44	JANM38510/02301CCB		TTL	4	2.0*	.80Δ	8	10	0.0	5.5	18nΔ			60m	5	C	1	74-30N	DL14bo
45	JANM38510/02301CDA		TTL	4	2.0*	.80Δ	8	10	0.0	5.5	18nΔ			60m	5	C	1	54-30W	FP116
46	JANM38510/02302BAA		TTL	4	2.0*	.80Δ	4	10	0.0	5.5	16nΔ			120m	5	C	2	54-20W	FP115
47	JANM38510/02302BAB		TTL	4	2.0*	.80Δ	4	10	0.0	5.5	16nΔ			120m	5	C	2	54-20W	FP115
48	JANM38510/02302BCA		TTL	4	2.0*	.80Δ	4	10	0.0	5.5	16nΔ			120m	5	C	2	74-13N	DL14bo
49	JANM38510/02302BCB		TTL	4	2.0*	.80Δ	4	10	0.0	5.5	16nΔ			120m	5	C	2	74-13N	DL14bo
50	JANM38510/02302BDA		TTL	4	2.0*	.80Δ	4	10	0.0	5.5	16nΔ			120m	5	C	2	74-13N	FP116
51	JANM38510/02302BDB		TTL	4	2.0*	.80Δ	4	10	0.0	5.5	16nΔ			120m	5	C	2	74-13N	FP116
52	JANM38510/02302CAA		TTL	4	2.0*	.80Δ	4	10	0.0	5.5	16nΔ			120m	5	C	2	54-20W	FP115
53	JANM38510/02302CAB		TTL	4	2.0*	.80Δ	4	10	0.0	5.5	16nΔ			120m	5	C	2	54-20W	FP115
54	JANM38510/02302CCA		TTL	4	2.0*	.80Δ	4	10	0.0	5.5	16nΔ			120m	5	C	2	74-13N	DL14bo
55	JANM38510/02302CCB		TTL	4	2.0*	.80Δ	4	10	0.0	5.5	16nΔ			120m	5	C	2	74-13N	DL14bo

5. GATES

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC (4) LOGIC (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN IN		POWER SUPPLY SPAN		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS	
					3 MIN. (V)	4 MAX. (V)	IN	OUT MAX.	NEG. (V)	POS (V)		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE
1	JANM38510/02302CDA		TTL	4	2.0*	.80Δ	4	10	0.0	5.5	16nΔ			120m	5	C	2	74-13N	FP116
2	JANM38510/02302CDB		TTL	4	2.0*	.80Δ	4	10	0.0	5.5	16nΔ			120m	5	C	2	74-13N	FP116
3	JANM38510/02303BAA		TTL	4	2.0*	.80Δ	3	10	0.0	5.5	16nΔ			180m	5	C	3	54-10W	FP115
4	JANM38510/02303BAB		TTL	4	2.0*	.80Δ	3	10	0.0	5.5	16nΔ			180m	5	C	3	54-10W	FP115
5	JANM38510/02303BCA		TTL	4	2.0*	.80Δ	3	10	0.0	5.5	16nΔ			180m	5	C	3	74-10N	DL14bo
6	JANM38510/02303BCB		TTL	4	2.0*	.80Δ	3	10	0.0	5.5	16nΔ			180m	5	C	3	74-10N	DL14bo
7	JANM38510/02303BDA		TTL	4	2.0*	.80Δ	3	10	0.0	5.5	16nΔ			180m	5	C	3	54-10W	FP116
8	JANM38510/02303BDB		TTL	4	2.0*	.80Δ	3	10	0.0	5.5	16nΔ			180m	5	C	3	54-10W	FP116
9	JANM38510/02303CAA		TTL	4	2.0*	.80Δ	3	10	0.0	5.5	16nΔ			180m	5	C	3	54-10W	FP116
10	JANM38510/02303CAB		TTL	4	2.0*	.80Δ	3	10	0.0	5.5	16nΔ			180m	5	C	3	54-10W	FP115
11	JANM38510/02303CCA		TTL	4	2.0*	.80Δ	3	10	0.0	5.5	16nΔ			180m	5	C	3	54-10W	FP115
12	JANM38510/02303CCB		TTL	4	2.0*	.80Δ	3	10	0.0	5.5	16nΔ			180m	5	C	3	74-10N	DL14bo
13	JANM38510/02303CDA		TTL	4	2.0*	.80Δ	3	10	0.0	5.5	16nΔ			180m	5	C	3	74-10N	DL14bo
14	JANM38510/02303CDB		TTL	4	2.0*	.80Δ	3	10	0.0	5.5	16nΔ			594m	5	C	3	54-10W	FP116
15	JANM38510/02304BAA		TTL	4	2.0*	.80Δ	3	10	0.0	5.5	16nΔ			180m	5	C	3	54-10W	FP116
16	JANM38510/02304BAB		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	16nΔ			240m	5	C	4	54-00W	FP115
17	JANM38510/02304BCA		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	16nΔ			240m	5	C	4	54-00W	FP115
18	JANM38510/02304BCB		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	16nΔ			240m	5	C	4	74-00N	DL14bo
19	JANM38510/02304BDA		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	16nΔ			240m	5	C	4	74-00N	DL14bo
20	JANM38510/02304BDB		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	16nΔ			240m	5	C	4	54-00W	FP116
21	JANM38510/02304CAA		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	16nΔ			240m	5	C	4	54-00W	FP116
22	JANM38510/02304CAB		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	16nΔ			240m	5	C	4	54-00W	FP115
23	JANM38510/02304CCA		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	16nΔ			240m	5	C	4	54-00W	FP115
24	JANM38510/02304CCB		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	16nΔ			240m	5	C	4	74-00N	DL14bo
25	JANM38510/02304CDA		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	16nΔ			240m	5	C	4	74-00N	DL14bo
26	JANM38510/02304CDB		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	16nΔ			240m	5	C	4	54-00W	FP116
27	JANM38510/02306BAA		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	16nΔ			240m	5	C	4	54-00W	FP116
28	JANM38510/02306BAB		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	21nΔ			240m	5	C	4	54-01W	FP115
29	JANM38510/02306BCA		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	21nΔ			240m	5	C	4	54-01W	FP115
30	JANM38510/02306BCB		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	21nΔ			240m	5	C	4	74-03N	DL14bo
31	JANM38510/02306BDA		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	21nΔ			240m	5	C	4	74-03N	DL14bo
32	JANM38510/02306BDB		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	21nΔ			240m	5	C	4	54-01W	FP116
33	JANM38510/02306CAA		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	21nΔ			240m	5	C	4	54-01W	FP116
34	JANM38510/02306CAB		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	21nΔ			240m	5	C	4	54-01W	FP115
35	JANM38510/02306CCA		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	21nΔ			240m	5	C	4	54-01W	FP115
36	JANM38510/02306CCB		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	21nΔ			240m	5	C	4	74-03N	DL14bo
37	JANM38510/02306CDA		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	21nΔ			240m	5	C	4	74-03N	DL14bo
38	JANM38510/02306CDB		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	21nΔ			240m	5	C	4	54-01W	FP116
39	JANM38510/02307BAA		TTL	4	2.0*	.80Δ	2	10	0.0	5.5	21nΔ			240m	5	C	4	54-01W	FP116
40	JANM38510/02307BAB		TTL	4	2.0*	.80Δ	4	10	0.0	5.5	21nΔ			120m	5	C	2	54H22W	FP115
41	JANM38510/02307BCA		TTL	4	2.0*	.80Δ	4	10	0.0	5.5	21nΔ			120m	5	C	2	54H22W	FP115
42	JANM38510/02307BCB		TTL	4	2.0*	.80Δ	4	10	0.0	5.5	21nΔ			120m	5	C	2	74-22N	DL14bo
43	JANM38510/02307CAA		TTL	4	2.0*	.80Δ	4	10	0.0	5.5	21nΔ			120m	5	C	2	74-22N	DL14bo
44	JANM38510/02307CAB		TTL	4	2.0*	.80Δ	4	10	0.0	5.5	21nΔ			120m	5	C	2	54H22W	FP115
45	JANM38510/02307CCA		TTL	4	2.0*	.80Δ	4	10	0.0	5.5	21nΔ			120m	5	C	2	54H22W	FP115
46	JANM38510/02307CCB		TTL	4	2.0*	.80Δ	4	10	0.0	5.5	21nΔ			120m	5	C	2	74-22N	DL14bo
47	JANM38510/07001BAB		TTL	4	2.0*	.80Δ	4	10	0.0	5.5	21nΔ			120m	5	C	2	74-22N	DL14bo
48	JANM38510/07001BAC		TTL	4	2.0*	.80Δ	2		0.0	5.5	9.0nΔ			198m	5	C	4	54S00W	FP115
49	JANM38510/07001BCA		TTL	4	2.0*	.80Δ	2		0.0	5.5	9.0nΔ			198m	5	C	4	54S00W	FP115
50	JANM38510/07001BCB		TTL	4	2.0*	.80Δ	2		0.0	5.5	9.0nΔ			198m	5	C	4	74-03N	DL14bo
51	JANM38510/07001BDA		TTL	4	2.0*	.80Δ	2		0.0	5.5	9.0nΔ			198m	5	C	4	74-03N	DL14bo
52	JANM38510/07001BDB		TTL	4	2.0*	.80Δ	2		0.0	5.5	9.0nΔ			198m	5	C	4	74-03N	FP116
53	JANM38510/07001CAB		TTL	4	2.0*	.80Δ	2		0.0	5.5	9.0nΔ			198m	5	C	4	74-03N	FP116
54	JANM38510/07001CAC		TTL	4	2.0*	.80Δ	2		0.0	5.5	9.0nΔ			198m	5	C	4	54S00W	FP115
55	JANM38510/07001CCA		TTL	4	2.0*	.80Δ	2		0.0	5.5	9.0nΔ			198m	5	C	4	54S00W	FP115
			TTL	4	2.0*	.80Δ	2		0.0	5.5	9.0nΔ			198m	5	C	4	74-03N	DL14bo

5. GATES

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC '1'
(4) LOGIC '0' (5) TYPE NO.

LINE No.	5] TYPE NO.	DATA SHT.	1] TECH	2] TYPE OF GATE	LOGIC LEVEL		FAN IN		POWER SUPPLY SPAN		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE		CKTS PER MOD	DRAWINGS	
					3] MIN. '1' (V)	4] MAX. '0' (V)	IN	OUT MAX.	NEG. (V)	POS. (V)		RISE TIME (S)	FALL TIME (S)			-	+		LOGIC OR BLOCK	OUTLINE
1	JANM38510/07001CCB		TTL	4	2.0*	.80Δ	2		0.0	5.5	9.0nΔ			198m		5	C	4	74-03N	DL14bo
2	JANM38510/07001CDA		TTL	4	2.0*	.80Δ	2		0.0	5.5	9.0nΔ			198m		5	C	4	54S00W	FP116
3	JANM38510/07001CDB		TTL	4	2.0*	.80Δ	2		0.0	5.5	9.0nΔ			198m		5	C	4	54S00W	FP116
4	JANM38510/07002BCA		TTL	4	2.0*Ø	.80Δ	2		0.0	5.5	14nΔ			198m		5	C	4	74-03N	DL14bo
5	JANM38510/07002BCB		TTL	4	2.0*Ø	.80Δ	2		0.0	5.5	14nΔ			198m		5	C	4	74-03N	DL14bo
6	JANM38510/07002BDA		TTL	4	2.0*Ø	.80Δ	2		0.0	5.5	14nΔ			198m		5	C	4	54S03W	FP116
7	JANM38510/07002BDB		TTL	4	2.0*Ø	.80Δ	2		0.0	5.5	14nΔ			198m		5	C	4	54S03W	FP116
8	JANM38510/07002CCA		TTL	4	2.0*Ø	.80Δ	2		0.0	5.5	14nΔ			198m		5	C	4	74-03N	DL14bo
9	JANM38510/07002CCB		TTL	4	2.0*Ø	.80Δ	2		0.0	5.5	14nΔ			198m		5	C	4	74-03N	DL14bo
10	JANM38510/07002CDA		TTL	4	2.0*Ø	.80Δ	2		0.0	5.5	14nΔ			198m		5	C	4	54S03W	FP116
11	JANM38510/07002CDB		TTL	4	2.0*Ø	.80Δ	2		0.0	5.5	14nΔ			198m		5	C	4	54S03W	FP116
12	JANM38510/07005BAB		TTL	4	2.0*	.80Δ	3		0.0	5.5	9.0nΔ			148m		5	C	3	54S10W	FP115
13	JANM38510/07005BAC		TTL	4	2.0*	.80Δ	3		0.0	5.5	9.0nΔ			148m		5	C	3	54S10W	FP115
14	JANM38510/07005BCA		TTL	4	2.0*	.80Δ	3		0.0	5.5	9.0nΔ			148m		5	C	3	74-10N	DL14bo
15	JANM38510/07005BCB		TTL	4	2.0*	.80Δ	3		0.0	5.5	9.0nΔ			148m		5	C	3	74-10N	DL14bo
16	JANM38510/07005BDA		TTL	4	2.0*	.80Δ	3		0.0	5.5	9.0nΔ			148m		5	C	3	54S10W	FP116
17	JANM38510/07005BDB		TTL	4	2.0*	.80Δ	3		0.0	5.5	9.0nΔ			148m		5	C	3	54S10W	FP116
18	JANM38510/07005CAB		TTL	4	2.0*	.80Δ	3		0.0	5.5	9.0nΔ			148m		5	C	3	54S10W	FP115
19	JANM38510/07005CAC		TTL	4	2.0*	.80Δ	3		0.0	5.5	9.0nΔ			148m		5	C	3	54S10W	FP115
20	JANM38510/07005CCA		TTL	4	2.0*	.80Δ	3		0.0	5.5	9.0nΔ			148m		5	C	3	74-10N	DL14bo
21	JANM38510/07005CCB		TTL	4	2.0*	.80Δ	3		0.0	5.5	9.0nΔ			148m		5	C	3	74-10N	DL14bo
22	JANM38510/07005CDA		TTL	4	2.0*	.80Δ	3		0.0	5.5	9.0nΔ			148m		5	C	3	54S10W	FP116
23	JANM38510/07005CDB		TTL	4	2.0*	.80Δ	3		0.0	5.5	9.0nΔ			148m		5	C	3	54S10W	FP116
24	JANM38510/07006BAB		TTL	4	2.0*	.80Δ	4		0.0	5.5	9.0nΔ			99m		5	C	2	54-13W	FP115
25	JANM38510/07006BAC		TTL	4	2.0*	.80Δ	4		0.0	5.5	9.0nΔ			99m		5	C	2	54-13W	FP115
26	JANM38510/07006BCA		TTL	4	2.0*	.80Δ	4		0.0	5.5	9.0nΔ			99m		5	C	2	74-13N	DL14bo
27	JANM38510/07006BCB		TTL	4	2.0*	.80Δ	4		0.0	5.5	9.0nΔ			99m		5	C	2	74-13N	DL14bo
28	JANM38510/07006BDA		TTL	4	2.0*	.80Δ	4		0.0	5.5	9.0nΔ			99m		5	C	2	54-13W	FP116
29	JANM38510/07006BDB		TTL	4	2.0*	.80Δ	4		0.0	5.5	9.0nΔ			99m		5	C	2	54-13W	FP116
30	JANM38510/07006CAB		TTL	4	2.0*	.80Δ	4		0.0	5.5	9.0nΔ			99m		5	C	2	54-13W	FP115
31	JANM38510/07006CAC		TTL	4	2.0*	.80Δ	4		0.0	5.5	9.0nΔ			99m		5	C	2	54-13W	FP115
32	JANM38510/07006CCA		TTL	4	2.0*	.80Δ	4		0.0	5.5	9.0nΔ			99m		5	C	2	74-13N	DL14bo
33	JANM38510/07006CCB		TTL	4	2.0*	.80Δ	4		0.0	5.5	9.0nΔ			99m		5	C	2	74-13N	DL14bo
34	JANM38510/07006CDA		TTL	4	2.0*	.80Δ	4		0.0	5.5	9.0nΔ			99m		5	C	2	54-13W	FP116
35	JANM38510/07006CDB		TTL	4	2.0*	.80Δ	4		0.0	5.5	9.0nΔ			99m		5	C	2	54-13W	FP116
36	JANM38510/07007BCA		TTL	4	2.0*Ø	.80Δ	4		0.0	5.5	14nΔ			99m		5	C	2	74-22N	DL14bo
37	JANM38510/07007BCB		TTL	4	2.0*Ø	.80Δ	4		0.0	5.5	14nΔ			99m		5	C	2	74-22N	DL14bo
38	JANM38510/07007BDA		TTL	4	2.0*Ø	.80Δ	4		0.0	5.5	14nΔ			99m		5	C	2	54-22W	FP116
39	JANM38510/07007BDB		TTL	4	2.0*Ø	.80Δ	4		0.0	5.5	14nΔ			99m		5	C	2	54-22W	FP116
40	JANM38510/07007CCA		TTL	4	2.0*Ø	.80Δ	4		0.0	5.5	14nΔ			99m		5	C	2	74-22N	DL14bo
41	JANM38510/07007CCB		TTL	4	2.0*Ø	.80Δ	4		0.0	5.5	14nΔ			99m		5	C	2	74-22N	DL14bo
42	JANM38510/07007CDA		TTL	4	2.0*Ø	.80Δ	4		0.0	5.5	14nΔ			99m		5	C	2	54-22W	FP116
43	JANM38510/07007CDB		TTL	4	2.0*Ø	.80Δ	4		0.0	5.5	14nΔ			99m		5	C	2	54-22W	FP116
44	JANM38510/07008BAB		TTL	4	2.0*	.80Δ	8		0.0	5.5	10nΔ			55m		5	C	1	54S30W	FP115
45	JANM38510/07008BAC		TTL	4	2.0*	.80Δ	8		0.0	5.5	10nΔ			55m		5	C	1	54S30W	FP115
46	JANM38510/07008BCB		TTL	4	2.0*	.80Δ	8		0.0	5.5	10nΔ			55m		5	C	1	74-30N	DL14bo
47	JANM38510/07008CAB		TTL	4	2.0*	.80Δ	8		0.0	5.5	10nΔ			55m		5	C	1	54S30W	FP115
48	JANM38510/07008CAC		TTL	4	2.0*	.80Δ	8		0.0	5.5	10nΔ			55m		5	C	1	54S30W	FP115
49	JANM38510/07008CCB		TTL	4	2.0*	.80Δ	8		0.0	5.5	10nΔ			55m		5	C	1	74-30N	DL14bo
50	JANM38510/07009BEA		TTL	4	2.0*	.80Δ	13		0.0	5.5	10nΔ			55m		5	C	1	74S133N	DL16br
51	JANM38510/07009BEB		TTL	4	2.0*	.80Δ	13		0.0	5.5	10nΔ			55m		5	C	1	74S133N	DL16br
52	JANM38510/07009BFA		TTL	4	2.0*	.80Δ	13		0.0	5.5	10nΔ			55m		5	C	1	54S133W	FP117
53	JANM38510/07009BFB		TTL	4	2.0*	.80Δ	13		0.0	5.5	10nΔ			55m		5	C	1	54S133W	FP117
54	JANM38510/07009CEA		TTL	4	2.0*	.80Δ	13		0.0	5.5	10nΔ			55m		5	C	1	74S133N	DL16br
55	JANM38510/07009CEB		TTL	4	2.0*	.80Δ	13		0.0	5.5	10nΔ			55m		5	C	1	74S133N	DL16br

5. GATES

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC*
(4) LOGIC (5) TYPE NO.

LINE No.	5 TYPE NO.	DATA SHT.	1 TECH	2 TYPE OF GATE	LOGIC LEVEL		FAN IN		POWER SUPPLY SPAN	PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS		
					3 MIN. (V)	4 MAX. (V)	IN	OUT MAX.			RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE	
																			NEG. (V)	POS (V)
1	JANM38510/07009CFA		TTL	4	2.0*	.80Δ	13		0.0	5.5	10nΔ		55m		5	C	1	54S133W	FP117
2	JANM38510/07009CFB		TTL	4	2.0*	.80Δ	13		0.0	5.5	10nΔ		55m		5	C	1	54S133W	FP117
3	JANM38510/07010BEA		TTL	4	2.0*§	.80Δ	12		0.0	5.5	10nΔ		138m		5	C	1	74S134N	DL16br
4	JANM38510/07010BEB		TTL	4	2.0*	.80Δ	12		0.0	5.5	10nΔ		138m		5	C	1	74S134N	DL16br
5	JANM38510/07010BFA		TTL	4	2.0*§	.80Δ	12		0.0	5.5	10nΔ		138m		5	C	1	54S134W	FP117
6	JANM38510/07010BFB		TTL	4	2.0*	.80Δ	12		0.0	5.5	10nΔ		138m		5	C	1	54S134W	FP117
7	JANM38510/07010CEA		TTL	4	2.0*§	.80Δ	12		0.0	5.5	10nΔ		138m		5	C	1	74S134N	DL16br
8	JANM38510/07010CEB		TTL	4	2.0*	.80Δ	12		0.0	5.5	10nΔ		138m		5	C	1	54S134W	DL16br
9	JANM38510/07010CFA		TTL	4	2.0*§	.80Δ	12		0.0	5.5	10nΔ		138m		5	C	1	54S134W	DL16br
10	JANM38510/07010CFB		TTL	4	2.0*§	.80Δ	12		0.0	5.5	10nΔ		138m		5	C	1	54S134W	FP117
11#	M53200P		TTL	4	2.0*	.80Δ	12		0.0	5.5	10nΔ		138m		5	C	1	54S134W	FP117
12#	M53201P		TTL	4	2.0*	.80Δ	2	10	0.0	7.0	13n		10m†	1.0	0	7	4	74-00N	DL14d
13#	M53203P		TTL	4	2.0*	.80Δ	2	10	0.0	7.0	13n		10m†	1.0	0	7	4	74-01N	DL14d
14#	M53210P		TTL	4	2.0*	.80Δ	3	10	0.0	7.0	13n		10m†	1.0	0	7	3	74-10N	DL14d
15#	M53220P		TTL	4	2.0*	.80Δ	4	10	0.0	7.0	13n		10m†	1.0	0	7	2	74-13N	DL14d
16#	M53230P		TTL	4	2.0*	.80Δ	8	10	0.0	7.0	13n		10m†	1.0	0	7	1	74-30N	DL14d
17#	M53237P		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	22nΔ		297m		0	7	4	74-00N	DL14d
18#	M53238P		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	22nΔ		297m		0	7	4	74-03N	DL14d
19#	M53240P		TTL	4	2.0*	.80Δ	4	30	0.0	7.0	13n		26m†	1.0	0	7	2	74-13N	DL14d
20#	MB74LS00		TTL	4	2.0*	.80Δ	2	20	0.0	5.0	15nΔ		22m	1.0 *	2	7	4	74-00N	DL14ai
21#	MB74LS00M		TTL	4	2.0*	.80Δ	2	20	0.0	5.0	15nΔ		22m	1.0 *	2	7	4	74-00N	DL14bn
22#	MB74LS01		TTL	4	2.0*∅	.80Δ	2	20	0.0	5.0	32nΔ		22m	1.0 *	2	7	4	74-01N	DL14ai
23#	MB74LS01M		TTL	4	2.0*∅	.80Δ	2	20	0.0	5.0	32nΔ		22m	1.0 *	2	7	4	74-01N	DL14bn
24#	MB74LS03		TTL	4	2.0*∅	.80Δ	2	20	0.0	5.0	32nΔ		22m	1.0 *	2	7	4	74-03N	DL14ai
25#	MB74LS03M		TTL	4	2.0*∅	.80Δ	2	20	0.0	5.0	32nΔ		22m	1.0 *	2	7	4	74-03N	DL14bn
26#	MB74LS10		TTL	4	2.0*	.80Δ	3	20	0.0	5.0	15nΔ		16m	1.0 *	2	7	3	74-10N	DL14ai
27#	MB74LS10M		TTL	4	2.0*	.80Δ	3	20	0.0	5.0	15nΔ		16m	1.0 *	2	7	3	74-10N	DL14bn
28#	MB74LS12		TTL	4	2.0*∅	.80Δ	3	20	0.0	5.0	32nΔ		16m	1.0 *	2	7	3	74-12N	DL14ai
29#	MB74LS12M		TTL	4	2.0*∅	.80Δ	3	20	0.0	5.0	32nΔ		16m	1.0 *	2	7	3	74-12N	DL14bn
30#	MB74LS20		TTL	4	2.0*	.80Δ	4	20	0.0	5.0	15nΔ		11m	1.0 *	2	7	2	74-13N	DL14ai
31#	MB74LS20M		TTL	4	2.0*	.80Δ	4	20	0.0	5.0	15nΔ		11m	1.0 *	2	7	2	74-13N	DL14bn
32#	MB74LS22		TTL	4	2.0*∅	.80Δ	4	20	0.0	5.0	32nΔ		11m	1.0 *	2	7	2	74-22N	DL14ai
33#	MB74LS22M		TTL	4	2.0*∅	.80Δ	4	20	0.0	5.0	32nΔ		11m	1.0 *	2	7	2	74-22N	DL14bn
34#	MB74LS26		TTL	4	2.0*∅	.80Δ	2	20	0.0	5.0	32nΔ		22m	400m*	2	7	4	74-03N	DL14ai
35#	MB74LS26M		TTL	4	2.0*∅	.80Δ	2	20	0.0	5.0	32nΔ		22m	400m*	2	7	4	74-03N	DL14bn
36#	MB74LS30		TTL	4	2.0*	.80Δ	8	20	0.0	5.0	20nΔ		5.5m	1.0 *	2	7	1	74-30N	DL14ai
37#	MB74LS30M		TTL	4	2.0*	.80Δ	8	20	0.0	5.0	20nΔ		5.5m	1.0 *	2	7	1	74-30N	DL14bn
38#	MB74LS37		TTL	4	2.0*∅	.80Δ	2	60	0.0	5.0	24nΔ		60m	1.0 *	2	7	4	74-00N	DL14ai
39#	MB74LS37M		TTL	4	2.0*∅	.80Δ	2	60	0.0	5.0	24nΔ		60m	1.0 *	2	7	4	74-00N	DL14bn
40#	MB74LS38		TTL	4	2.0*∅	.80Δ	2	60	0.0	5.0	32nΔ		60m	1.0 *	2	7	4	74-03N	DL14ai
41#	MB74LS38M		TTL	4	2.0*∅	.80Δ	2	60	0.0	5.0	32nΔ		60m	1.0 *	2	7	4	74-03N	DL14bn
42#	MB74LS40		TTL	4	2.0*	.80Δ	4	60	0.0	5.0	24nΔ		30m	1.0 *	2	7	2	74-13N	DL14ai
43#	MB74LS40M		TTL	4	2.0*	.80Δ	4	60	0.0	5.0	24nΔ		30m	1.0 *	2	7	2	74-13N	DL14bn
44#	MB400		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	10n		40m†		0	7	4	74-00N	DL14aq
45#	MB400M		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	10n		40m†		0	7	4	74-00N	DL14ac
46#	MB401		TTL	4	2.0*	.80Δ	3	10	0.0	5.0	10n		30m†		0	7	3	74-00N	DL14aq
47#	MB401M		TTL	4	2.0*	.80Δ	3	10	0.0	5.0	10n		30m†		0	7	3	74-00N	DL14ac
48#	MB402		TTL	4	2.0*	.80Δ	4	10	0.0	5.0	10n		20m†		0	7	2	74-22N	DL14aq
49#	MB402M		TTL	4	2.0*	.80Δ	4	10	0.0	5.0	10n		20m†		0	7	2	74-22N	DL14ac
50#	MB403		TTL	4	2.0*	.80Δ	8	10	0.0	5.0	10n		10m†		0	7	1	74-30N	DL14aq
51#	MB403M		TTL	4	2.0*	.80Δ	8	10	0.0	5.0	10n		10m†		0	7	1	74-30N	DL14ac
52#	MB404		TTL	4	2.0*	.80Δ	4	30	0.0	5.0	10n		48m†		0	7	2	74-13N	DL14aq
53#	MB404M		TTL	4	2.0*	.80Δ	4	30	0.0	5.0	10n		48m†		0	7	2	74-13N	DL14ac
54#	MB416		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	20n		40m†		0	7	4	74-03N	DL14aq
55#	MB416M		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	20n		40m†		0	7	4	74-03N	DL14ac
56#	MB431		TTL	4	2.0*	.80Δ	4		0.0	5.0	15n		100m†		0	7	2	74-03N	DL14aq
57#	MB431M		TTL	4	2.0*	.80Δ	4		0.0	5.0	15n		100m†		0	7	2	74-03N	DL14ac
58#	MB433		TTL	4	2.0*	.80Δ	2	30	0.0	5.0	13n		96m†		0	7	4	74-03N	DL14aq
59#	MB433M		TTL	4	2.0*	.80Δ	2	30	0.0	5.0	13n		96m†		0	7	4	74-03N	DL14ac
60#	MB435		TTL	4	2.0*	.80Δ	2	30	0.0	5.0	10n		104m†		0	7	4	74-00N	DL14aq
61#	MB435M		TTL	4	2.0*	.80Δ	2	30	0.0	5.0	10n		104m†		0	7	4	74-00N	DL14ac
62#	MB601		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	7n		84m†		0	7	4	74-00N	DL14aq
63#	MB602		TTL	4	2.0*	.80Δ	3	10	0.0	5.0	7n		63m†		0	7	3	74-10N	DL14aq
64#	MB603		TTL	4	2.0*	.80Δ	4	10	0.0	5.0	7n		42m†		0	7	2	74-13N	DL14aq
65#	MB604		TTL	4	2.0*	.80Δ	8	10	0.0	5.0	7n		21m†		0	7	1	74-30N	DL14aq
66#	MB605		TTL	4	2.0*	.80Δ	4	30	0.0	5.0	7n		94m†		0	7	2	74-13N	DL14aq
67#	N8T96F		TTL	4	2.0	0.8	6		0.0	5.0	6.5n				0	7	6	G04-540	DL16aw
68#	N8T96N		TTL	4	2.0	0.8	6		0.0	5.0	6.5n				0	7	6	G04-540	DL16e
69#	N8T98F		TTL	4	2.0	0.8	6		0.0	5.0	6.5n				0	7	6	G04-541	DL16aw
70#	N8T98N		TTL	4	2.0	0.8	6		0.0	5.0	6.5n				0	7	6	G04-541	DL16e
71#	N74F00F		TTL	4	2.0	0.8	2		-0.5	7.0	5.0nΔ				0	7		74-00	DL14o
72#	N74F00N		TTL	4	2.0	0.8			0.5	7.0	6.0nΔ	2.5n	2.5n		0	7	4	74-00	DL14Z
73#	N74F10F		TTL	4	2.0	0.8	3		-0.5	7.0	5.0nΔ				0	7		74-10	DL14o
74#	N74F10N		TTL	4	2.0	0.8	3		-0.5	7.0	5.0nΔ				0	7		74-10	DL14n
75#	N74F20F		TTL	4	2.0	0.8			0.5	7.0	6.0nΔ	2.5n	2.5n		0	7	2	74H20	DL14Z
76#	N74F20N		TTL	4	2.0	0.8			0.5	7.0	6.0nΔ	2.5n	2.5n		0	7	2	74H20	DL14Z
77	N74H00A		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	6.2n				0	7	4	74-00N	DL14br
78	N74H00F		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	6.2n		200m		0	7	4	74-00N	DL14bh
79	N74H00N		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	6.2n		200m		0	7	4	74-03N	DL14br
80	N74H01F																		

5. GATES

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC*1
(4) LOGIC*5 (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN IN		POWER SUPPLY SPAN		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS	
					3 | MIN. '1' (V)	4 | MAX. '0' (V)	IN	OUT MAX.	NEG. (V)	POS (V)		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE
1▼	N74LS20D		TTL	4	2.0*	0.8Δ	4	20	0.0	5.0	15n			11m			2	74-13N	DL14bh
2	N74LS20N		TTL	4	2.0*	.80Δ	2	20	0.0	5.0	15nΔ			11m			2	74-13	DL14br
3	N74LS22F		TTL	4	2.0*0	.80Δ	4	20	0.0	5.0	32nΔ			11m			2	74-22N	DL14bh
4	N74LS22N		TTL	4	2.0*0	.80Δ	4	20	0.0	5.0	32nΔ			11m			2	74-22N	DL14br
5▼	N74LS26D		TTL	4	2.0*	0.8Δ	2	20	0.0	5.0	32nΔ			22m			4	74-03N	DL14bh
6	N74LS26N		TTL	4	2.0*0	.80Δ	2	20	0.0	5.0	32nΔ			22m			4	74-03N	DL14br
7▼	N74LS30D		TTL	4	2.0*	0.8Δ	8	20	0.0	5.0	20nΔ			5.5m			1	74-30N	DL14bh
8	N74LS30N		TTL	4	2.0*	.80Δ	8	20	0.0	5.0	20nΔ			5.5m			1	74-30N	DL14br
9▼	N74S00D		TTL	4	2.0*	0.8Δ	2	10	0.0	5.0	5.0nΔ			180m	1.0 †		4	74-00N	DL14bh
10	N74S00N		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	5.0nΔ			180m			4	74-00N	DL14br
11	N74S03F		TTL	4	2.0*0	.80Δ	2	10	0.0	5.0	7.5nΔ			180m	1.0 †		4	74-03N	DL14bh
12	N74S03N		TTL	4	2.0*0	.80Δ	2	10	0.0	5.0	7.5nΔ			180m			4	74-03N	DL14br
13▼	N74S10D		TTL	4	2.0*	0.8Δ	3	10	0.0	5.0	5.0nΔ			135m	1.0 †		3	74-10N	DL14bh
14	N74S10N		TTL	4	2.0*	.80Δ	3	10	0.0	5.0	5.0nΔ			135m			3	74-10N	DL14br
15▼	N74S20D		TTL	4	2.0*	0.8Δ	4	10	0.0	5.0	5.0nΔ			90m	1.0 †		2	74-13N	DL14bh
16	N74S20N		TTL	4	2.0*	.80Δ	4	10	0.0	5.0	5.0nΔ			90m			2	74-13N	DL14br
17	N74S22F		TTL	4	2.0*0	.80Δ	4	10	0.0	5.0	7.5nΔ			90m	1.0 †		2	74-22N	DL14bh
18	N74S22N		TTL	4	2.0*0	.80Δ	4	10	0.0	5.0	7.5nΔ			90m			2	74-22N	DL14br
19	N74S133F		TTL	4	2.0*	.80Δ	13	10	0.0	5.0	7.0nΔ			50m	1.0 †		1	74S133N	DL16aw
20	N74S133N		TTL	4	2.0*	.80Δ	13	10	0.0	5.0	7.0nΔ			50m			1	74S133N	DL16bp
21	N74S133W		TTL	4	2.0*	.80Δ	13	20	0.0	5.0	7.0nΔ			50m	1.0 †		1	54S133W	FP47g
22	N74S134F		TTL	4	2.0*§	.80Δ	13	10	0.0	5.0	7.5nΔ			80m	1.0 †		1	74S134N	DL16aw
23	N74S134N		TTL	4	2.0*§	.80Δ	13	10	0.0	5.0	7.5nΔ			80m			1	74S134N	DL16bp
24	N74S134W		TTL	4	2.0*	.80Δ	13	30	0.0	5.0	7.5nΔ			80m	1.0 †		1	54S134W	FP47g
25	N7400F		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	22nΔ			60m	1.0 †		4	74-00N	DL14bh
26	N7400N		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	22nΔ			60m			4	74-00N	DL14br
27	N7401F		TTL	4	2.0*0	.80Δ	2	10	0.0	5.0	45nΔ			80m	1.0 †		4	74-01N	DL14bh
28	N7401N		TTL	4	2.0*0	.80Δ	2	10	0.0	5.0	45nΔ			80m			4	74-01N	DL14br
29	N7403F		TTL	4	2.0*0	.80Δ	2	10	0.0	5.0	45nΔ			110m	1.0 †		4	74-03N	DL14bh
30	N7403N		TTL	4	2.0*0	.80Δ	2	10	0.0	5.0	45nΔ			110m			4	74-03N	DL14br
31	N7410F		TTL	4	2.0*	.80Δ	3	10	0.0	5.0	22nΔ			82m	1.0 †		3	74-10N	DL14bh
32	N7410N		TTL	4	2.0*	.80Δ	3	10	0.0	5.0	22nΔ			82m			3	74-10N	DL14br
33	N7412F		TTL	4	2.0*0	.80Δ	3	10a	0.0	5.0	45nΔ			82m			3	74-12N	DL14bh
34	N7412N		TTL	4	2.0*0	.80Δ	3	10	0.0	5.0	45nΔ			82m			3	74-12N	DL14br
35	N7420F		TTL	4	2.0*	.80Δ	4	10	0.0	5.0	22nΔ			55m	1.0 †		2	74-13N	DL14bh
36	N7420N		TTL	4	2.0*	.80Δ	4	10a	0.0	5.0	22nΔ			55m			2	74-13N	DL14br
37	N7426F		TTL	4	2.0*0	.80Δ	2	10	0.0	5.0	24nΔ			110m	1.0 †		4	74-03N	DL14bh
38	N7426N		TTL	4	2.0*0	.80Δ	2	10a	0.0	5.0	24nΔ			110m			4	74-03N	DL14br
39	N7430F		TTL	4	2.0*	.80Δ	8	10	0.0	5.0	22nΔ			30m	1.0 †		1	74-30N	DL14bh
40	N7430N		TTL	4	2.0*	.80Δ	8	10	0.0	5.0	22nΔ			30m			1	74-30N	DL14br
41▼#	S54F00F		TTL	4	2.0	0.8	2		-0.5	7.0	5.0nΔ							74-00	DL14o
42▼#	S54F00W		TTL	4	2.0	0.8	2		-0.5	7.0	5.0nΔ							54-00	FP153
43▼#	S54F10F		TTL	4	2.0	0.8	3		-0.5	7.0	5.0nΔ							74-10	DL14o
44▼#	S54F10W		TTL	4	2.0	0.8	3		-0.5	7.0	5.0nΔ							54-10	FP153
45▼#	S54F20F		TTL	4	2.0	0.8	4		-0.5	7.0	5.0nΔ							74-13	DL14o
46▼#	S54F20W		TTL	4	2.0	0.8	4		-0.5	7.0	5.0nΔ							54-20	FP153
47	S54H00F		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	6.2n			200m			4	74-00N	DL14bh
48	S54H00W		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	6.2n			200m			4	54-00W	FP39e
49	S54H01F		TTL	4	2.0*0	.80Δ	2	10	0.0	5.0	10n			200m			4	74-03N	DL14bh
50	S54H01W		TTL	4	2.0*0	.80Δ	2	10	0.0	5.0	10n			200m			4	54-01W	FP39e
51	S54H10F		TTL	4	2.0*	.80Δ	3	10	0.0	5.0	10nΔ			150m			3	74-10N	DL14bh
52	S54H10W		TTL	4	2.0*	.80Δ	3	10	0.0	5.0	10nΔ			150m			3	54-10W	FP39e
53	S54H20F		TTL	4	2.0*	.80Δ	4	10	0.0	5.0	10nΔ			100m			2	74-13N	DL14bh
54	S54H20W		TTL	4	2.0*	.80Δ	4	10	0.0	5.0	10nΔ			100m			2	54-20W	FP39e
55	S54H22F		TTL	4	2.0*0	.80Δ	4	10	0.0	5.0	15nΔ			100m			2	74-22N	DL14bh
56	S54H22W		TTL	4	2.0*0	.80Δ	4	10	0.0	5.0	15nΔ			100m			2	54-22	FP39e
57	S54H30F		TTL	4	2.0*	.80Δ	8	10	0.0	5.0	8.9n			50m			1	74-30N	DL14bh
58	S54H30W		TTL	4	2.0*	.80Δ	8	10	0.0	5.0	8.9n			50m			1	54-30W	FP39e
59	S54S00F		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	5.0nΔ			180m	1.0 †		4	74-00N	DL14bh
60	S54S00W		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	5.0nΔ			180m			4	54S00W	FP39e
61	S54S03F		TTL	4	2.0*	.80Δ	2	20	0.0	5.0	7.0nΔ			180m†	1.0 †		4	74-03N	DL14bh
62	S54S03W		TTL	4	2.0*	.80Δ	2	20	0.0	5.0	7.0nΔ			180m†	1.0 †		4	54S03W	FP39e
63	S54S10F		TTL	4	2.0*	.80Δ	3	10	0.0	5.0	5.0nΔ			135m	1.0 †		3	74-10N	DL14bh
64	S54S10W		TTL	4	2.0*	.80Δ	3	10	0.0	5.0	5.0nΔ			135m	1.0 †		3	54S10W	FP39e
65	S54S20F		TTL	4	2.0*	.80Δ	4	10	0.0	5.0	5.0nΔ			90m	1.0 †		2	74-13N	DL14bh
66	S54S20W		TTL	4	2.0*	.80Δ	4	10	0.0	5.0	5.0nΔ			90m	1.0 †		2	54-13W	FP39e
67	S54S22F		TTL	4	2.0*0	.80Δ	4	10	0.0	5.0	7.5nΔ			90m	1.0 †		2	74-22N	DL14bh
68	S54S22W		TTL	4	2.0*0	.80Δ	4	10	0.0	5.0	7.5nΔ			90m	1.0 †		2	54-22W	FP39e
69	S54S133F		TTL	4	2.0*	.80Δ	13	10	0.0	5.0	7.0nΔ			50m	1.0 †		1	74S133N	DL16aw
70	S54S133W		TTL	4	2.0*	.80Δ	13	10	0.0	5.0	7.0nΔ			50m	1.0 †		1	54S133W	FP47g
71	S54S134F		TTL	4	2.0*§	.80Δ	13	10	0.0	5.0	7.5nΔ			80m	1.0 †		1	74S134N	DL16aw
72	S54S134W		TTL	4	2.0*§	.80Δ	13	10	0.0	5.0	7.5nΔ			80m	1.0 †		1	54S134W	FP47g
73	S54S140A		TTL	4	2.0*	.80Δ	4	60	0.0	5.0	6.5nΔ			220m†	1.0 †		2	74-13	DL14br
74	S5400F		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	22nΔ			110m	1.0 †		4	74-00N	DL14bh
75	S5400W		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	22nΔ			110m	1.0 †		4	54-00W	FP39e
76	S5401F		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	45nΔ			110m	1.0 †		4	74-01N	DL14bh
77	S5401W		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	45nΔ			110m	1.0 †		4	54-01W	FP39e
78	S5403F		TTL	4	2.0*0	.80Δ	2	10	0.0	5.0	45nΔ			110m	1.0 †		4	74-03N	DL14bh
79	S5403W		TTL	4	2.0*0	.80Δ	2	10a	0.0	5.0	45nΔ			110m	1.0 †		4	54S03W	FP39e
80	S5410F		TTL	4	2.0*	.80Δ	3	10	0.0	5.0	22nΔ			82m	1.0 †		3	74-10N	DL14bh
81	S5410W		TTL	4	2.0*	.80Δ	3	10											

5. GATES

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC (4) LOGIC (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN IN		POWER SUPPLY SPAN		PROPAGA- DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE (C)	CKTS PER MOD	DRAWINGS		
					3 MIN. '1' (V)	4 MAX. '0' (V)	IN	OUT MAX.	NEG. (V)	POS (V)		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE	
1#	SFC401HJM		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	15nΔ			200m	400m	5	5	4	74-03N	TO116
2#	SFC401HKM		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	15nΔ			200m	400m	5	5	4	74-03N	TO116
3#	SFC401HPM		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	15nΔ			200m	400m	5	5	4	54-01W	TO85
4#	SFC401JM		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	23nΔ			110m	400m	5	5	4	74-01N	TO116
5#	SFC401KM		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	23nΔ			110m	400m	5	5	4	74-01N	TO116
6#	SFC401LSE		TTL	4	2.0*	.80Δ	2	20	0.0	5.0	32nΔ			22m	300m*	0	7	4	74-01N	TO116
7#	SFC401LSEM		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	32nΔ			22m	400m*	5	5	4	74-01N	TO116
8#	SFC401PM		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	23nΔ			40m†	400m	5	5	4	54-00W	TO85
9#	SFC403E		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	23nΔ			40m†	1.0	0	7	4	74-03N	TO116
10#	SFC403EM		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	23nΔ			40m†	1.0	5	5	4	74-03N	TO116
11#	SFC403ET		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	23nΔ			40m†	1.0	2	8	4	74-03N	TO116
12#	SFC403EV		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	23nΔ			40m†	1.0	4	8	4	74-03N	TO116
13#	SFC410E		TTL	4	2.0*	.80Δ	3	10	0.0	7.0	13n			10m	400m*	0	7	3	74-10N	TO116
14#	SFC410EM		TTL	4	2.0*	.80Δ	3	10	0.0	5.0	32nΔ			1.0m†	400m*	5	5	3	74-10N	TO116
15#	SFC410ET		TTL	4	2.0*	.80Δ	3	10	0.0	5.0	32nΔ			1.0m†	400m*	2	8	3	74-10N	TO116
16#	SFC410HE		TTL	4	2.0*	.80Δ	3	20	0.0	5.0	10nΔ			60m†	400m	0	7	3	74-10N	TO116
17#	SFC410HEM		TTL	4	2.0*	.80Δ	3	20	0.0	5.0	10nΔ			60m†	400m	5	5	3	74-10N	TO116
18#	SFC410HP		TTL	4	2.0*	.80Δ	3	20	0.0	5.0	10nΔ			60m†	400m	0	7	3	54-10W	TO85
19#	SFC410HPM		TTL	4	2.0*	.80Δ	3	20	0.0	5.0	10nΔ			60m†	400m	5	5	3	54-10W	TO85
20#	SFC410PM		TTL	4	2.0*	.80Δ	3	10	0	7	13n			30m†	400m	5	5	3	54-10	ZBZJ
21#	SFC420E		TTL	4	2.0*	.80Δ	4	10	0.0	7.0	13n			10m	400m*	0	7	2	74-13N	TO116
22#	SFC420EM		TTL	4	2.0*	.80Δ	4	10	0.0	5.0	22nΔ			1.0m†	400m*	5	8	2	74-13N	TO116
23#	SFC420ET		TTL	4	2.0*	.80Δ	4	10	0.0	5.0	22nΔ			10m†	400m*	2	8	2	74-13N	TO116
24#	SFC420HE		TTL	4	2.0*	.80Δ	4	10	0	7	6n			40m†	400m	0	7	2	74-13N	TO116
25#	SFC420HEM		TTL	4	2.0*	.80Δ	4	10	0.0	5.0	10nΔ			1.0	5	5	5	2	74-13N	TO116
26#	SFC420HPM		TTL	4	2.0*	.80Δ	4	10	0	7	6n			40m†	400m	5	5	2	ZBZJ	ZBZJ
27#	SFC420PM		TTL	4	2.0*	.80Δ	4	10	0	7	13n			20m†	400m	5	5	2	54-20W	ZBZJ
28#	SFC426E		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	24nΔ			110m*		0	7	4		TO116
29#	SFC426EM		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	24nΔ			110m*		5	5	4		TO116
30#	SFC426ET		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	24nΔ			110m*		2	8	4		TO116
31#	SFC430E		TTL	4	2.0*	.80Δ	8	10	0.0	7.0	13n			10m	400m*	0	7	1	74-30N	TO116
32#	SFC430EM		TTL	4	2.0*	.80Δ	8	10	0.0	5.0	22nΔ			10m†	1.0	5	5	1	74-30N	TO116
33#	SFC430ET		TTL	4	2.0*	.80Δ	8	10	0.0	5.0	22nΔ			10m†	1.0	2	8	1	74-30N	TO116
34#	SFC430HE		TTL	4	2.0*	.80Δ	8	10	0	7	6n			20m†	400m	0	7	1	74-30N	TO116
35#	SFC430HEM		TTL	4	2.0*	.80Δ	8	10	0.0	5.0	11nΔ			1.0	5	5	1		TO116	
36#	SFC430HPM		TTL	4	2.0*	.80Δ	8	10	0	7	6n			20m†	400m	5	5	1	ZBZJ	ZBZJ
37#	SFC430LE		TTL	4	2.0*	.80Δ	8	10	0.0	5.0	60nΔ			1.0m†	1.0	0	7	1	74-30N	TO116
38#	SFC430PM		TTL	4	2.0*	.80Δ	8	10	0	7	13n			10m†	400m	5	5	1	ZBZJ	ZBZJ
39#	SFC437E		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	22nΔ			297m		0	7	4	74-00N	TO116
40#	SFC437EM		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	22nΔ			297m		5	5	4	74-00N	TO116
41#	SFC437ET		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	22nΔ			297m		2	8	4	74-00N	TO116
42#	SFC438E		TTL	4	2.0*	.80Δ	2	30	0.0	5.0	22nΔ			297m		0	7	4	74-03N	TO116
43#	SFC438EM		TTL	4	2.0*	.80Δ	2	30	0.0	5.0	22nΔ			297m		5	5	4	74-03N	TO116
44#	SFC438ET		TTL	4	2.0*	.80Δ	2	30	0.0	5.0	22nΔ			297m		2	8	4	74-03N	TO116
45#	SFC440E		TTL	4	2.0*	.80Δ	4	30	0.0	7.0	13n			27m	400m*	0	7	2	74-13N	TO116
46#	SFC440EM		TTL	4	2.0*	.80Δ	4	30	0.0	5.0	22nΔ			135m*	1.0	5	5	2	74-13N	TO116
47#	SFC440ET		TTL	4	2.0*	.80Δ	4	30	0.0	5.0	22nΔ			135m*	1.0	2	8	2	74-13N	TO116
48#	SFC440HE		TTL	4	2.0*	.80Δ	4	30	0	7	6n			40m†	400m	0	7	2	74-13N	TO116
49#	SFC440HEM		TTL	4	2.0*	.80Δ	4	30	0.0	5.0	10nΔ			1.0	5	5	2	74-13N	TO116	
50#	SFC440HPM		TTL	4	2.0*	.80Δ	4	30	0	7	6n			40m†	400m	5	5	2	ZBZJ	ZBZJ
51#	SFC440PM		TTL	4	2.0*	.80Δ	4	30	0	7	13n			20m†	400m	5	5	2	ZBZJ	ZBZJ
52#	SFC453PM		TTL	4	2.0*	.80Δ	8	10	0	7	13n			40m†	400m	5	5	1	ZBZJ	ZBZJ
53	SN54ALS00J#		TTL	4	2.0	0.8	8	10	0.0	5.0	14n					5	5	4	74-00	DL14ci
54	SN54ALS00J#mil		TTL	4	2.0	0.8	8	4	0	7	14n					5	5	4	G04-503	DL14c
55	SN54ALS00N		TTL	4	2.0	0.8	8	10	0.0	5.0	14n					5	5	4	74-00	DL14dg
56	SN54ALS01J#mil		TTL	4	2.0	0.8	8	4	0	7	59n					5	5	4	G04-502	DL14c
57	SN54ALS03J#		TTL	4	2.0	0.8	8	10	0.0	5.0	20n					5	5	4	74-03	DL14ci
58	SN54ALS03J#mil		TTL	4	2.0	0.8	8	4	0	7	59n					5	5	4	G04-503	DL14c
59	SN54ALS03N		TTL	4	2.0	0.8	8	10	0.0	5.0	20n					5	5	4	74-03	DL14dg
60	SN54ALS10J#		TTL	4	2.0	0.8	9	10	0.0	5.0	17n					5	5	3	74-10	DL14ci
61	SN54ALS10J#mil		TTL	4	2.0	0.8	9	3	0	7	14n					5	5	3	54-12	DL14c
62	SN54ALS10N		TTL	4	2.0	0.8	9	10	0.0	5.0	17n					5	5	3	74-10	DL14dg
63	SN54ALS12J		TTL	4	2.0	0.8	9	10	0.0	5.0	35n					5	5	3	74-12	DL14ci
64	SN54ALS12N		TTL	4	2.0	0.8	9	10	0.0	5.0	35n					5	5	3	74-12	DL14dg
65	SN54ALS20J#		TTL	4	2.0	0.8	8	10	0.0	5.0	16n					5	5	2	74-20	DL14c
66	SN54ALS20J#mil		TTL	4	2.0	0.8	8	2	0	7	14n					5	5	2	G04-471	DL14c
67	SN54ALS20N		TTL	4	2.0	0.8	8	10	0.0	5.0	16n					5	5	2	74-20	DL14dg
68	SN54ALS22J#		TTL	4	2.0	0.8	8	10	0.0	5.0	35n					5	5	2	74-22	DL14ci
69	SN54ALS22J#mil		TTL	4	2.0	0.8	8	2	0	7	59n					5	5	2	74-22	DL14c
70	SN54ALS30J#mil		TTL	4	2.0	0.8	8	1	0	7	14n					5	5	1	G04-3ay	DL14c
71	SN54ALS37J		TTL	4	2.0	0.8	10	10	0.0	7.0		10n	10n			5	5	4	G04-464	DL14af
72	SN54ALS38J		TTL	4	2.0	0.8	10	10	0.0	7.0		40n	18n			5	5	4	G04-464	DL14af
73	SN54ALS133J#mil		TTL	4	2.0	0.8	13	1	0	7	14n					5	5	1	G04-474	DL16dw
74	SN54ALS1003J#mil		TTL	4	2.0	0.8	8	4	0	7	10n					5	5	4	G04-503	DL14c
75	SN54ALS1003J#mil		TTL	4	2.0	0.8	8	4	0	7	40n					5	5	4	G04-503	DL14c
76	SN54ALS1020J#mil		TTL	4	2.0	0.8	2	10	0	7						5	5	2	74-22N	DL14c
77	SN54AS804J		TTL	4	2.0	0.8	2	10	0.0	7.0		4n	4n			5	5	6	G04-539	DL20b
78	SN54H00J		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	10nΔ			200m	1.0	5	5	4	74-00N	DL14af
79	SN54H00W		TTL	4	2.0*	.80Δ	2	10	0.0	5.										

5. GATES

IN ORDER OF (1) TECHNOLOGY (2) TYPE (3) LOGIC*1
(4) LOGIC*2 (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN		POWER SUPPLY		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS	
					3 MIN. '1' (V)	4 MAX. '0' (V)	IN	OUT MAX.	NEG. (V)	POS (V)		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE
1	SN54S40W		TTL	4	2.0*	.80Δ	4	60	0.0	5.0	4.0n			110m%	1.0		2	74-13N	DL14af
2	SN54S40W		TTL	4	2.0*	.80Δ	4	60	0.0	5.0	4.0n			110m%	1.0		2	54-13W	MO004AA
3	SN54S133J		TTL	4	2.0*	.80Δ	13	10	0.0	5.0	7.0nΔ			300m			1	74S133N	DL16v
4	SN54S133W		TTL	4	2.0*	.80Δ	13	10	0.0	5.0	7.0nΔ			21m†			1	54S133W	MO004AG
5	SN54S134J		TTL	4	2.0*	.80Δ	12	10	0.0	5.0	7.5nΔ			300m			1	74S134N	DL16v
6	SN54S134W		TTL	4	2.0*	.80Δ	12	10	0.0	5.0	7.5nΔ			45m†			1	54S134W	MO004AG
7	SN54S140J		TTL	4	2.0*	.80Δ	4	60	0.0	5.0	4.0n			110m%	1.0		2	74-13N	DL14af
8	SN54S140W		TTL	4	2.0*	.80Δ	4	60	0.0	5.0	4.0n			110m%	1.0		2	54-13W	MO004AA
9	SN74LS00J		TTL	4	2.0*	0.8	8	4	0	7.0	11n						0	74-00N	DL14c
10	SN74ALS00J#		TTL	4	2.0	0.8	8	4	0.0	5.0	13n						4	74-00N	DL14ci
11	SN74ALS00N#		TTL	4	2.0	0.8	8	4	0	7.0	11n						0	74-00N	DL14n
12	SN74ALS00N#		TTL	4	2.0	0.8	8	4	0.0	5.0	13n						4	74-00N	DL14dg
13	SN74ALS01J		TTL	4	2.0	0.8	8	4	0	7.0	54n						0	74-01N	DL14c
14	SN74ALS01N		TTL	4	2.0	0.8	8	4	0	7.0	54n						0	74-01N	DL14n
15	SN74ALS03J		TTL	4	2.0	0.8	8	4	0	7.0	54n						0	74-03N	DL14c
16	SN74ALS03J#		TTL	4	2.0	0.8	8	4	0.0	5.0	15n						0	74-03N	DL14ci
17	SN74ALS03N#		TTL	4	2.0	0.8	8	4	0	7.0	54n						0	74-03N	DL14n
18	SN74ALS03N#		TTL	4	2.0	0.8	8	4	0.0	5.0	15n						0	74-03N	DL14dg
19	SN74ALS10J		TTL	4	2.0	0.8	9	3	0	7.0	11n						0	74-10N	DL14c
20	SN74ALS10J#		TTL	4	2.0	0.8	9	3	0.0	5.0	15n						0	74-10N	DL14ci
21	SN74ALS10N#		TTL	4	2.0	0.8	9	3	0	7.0	11n						0	74-10N	DL14n
22	SN74ALS10N#		TTL	4	2.0	0.8	9	3	0.0	5.0	15n						0	74-10N	DL14dg
23	SN74ALS12J		TTL	4	2.0	0.8	9	3	0.0	5.0	35n						0	74-12N	DL14ci
24	SN74ALS12N		TTL	4	2.0	0.8	9	3	0.0	5.0	35n						0	74-12N	DL14n
25	SN74ALS20J		TTL	4	2.0	0.8	8	2	0	7.0	11n						0	74-13N	DL14c
26	SN74ALS20J#		TTL	4	2.0	0.8	8	2	0.0	5.0	15n						0	74-20N	DL14ci
27	SN74ALS20N#		TTL	4	2.0	0.8	8	2	0	7.0	11n						0	74-13N	DL14n
28	SN74ALS20N#		TTL	4	2.0	0.8	8	2	0.0	5.0	15n						0	74-20N	DL14dg
29	SN74ALS22J		TTL	4	2.0	0.8	8	2	0	7.0	54n						0	74-22N	DL14c
30	SN74ALS22J#		TTL	4	2.0	0.8	8	2	0.0	5.0	25n						0	74-22N	DL14ci
31	SN74ALS22N#		TTL	4	2.0	0.8	8	2	0	7.0	54n						0	74-22N	DL14n
32	SN74ALS22N#		TTL	4	2.0	0.8	8	2	0.0	5.0	25n						0	74-22N	DL14dg
33	SN74ALS30J		TTL	4	2.0	0.8	8	1	0	7.0	11n						0	74-30N	DL14c
34	SN74ALS30N		TTL	4	2.0	0.8	8	1	0	7.0	11n						0	74-30N	DL14n
35	SN74ALS37J		TTL	4	2.0	0.8	8	1	0.0	7.0	7.0		8n	8n			0	G04-464	DL14af
36	SN74ALS37N		TTL	4	2.0	0.8	8	1	0.0	7.0	7.0		8n	8n			0	G04-464	DL14r
37	SN74ALS38J		TTL	4	2.0	0.8	8	1	0.0	7.0	7.0		30n	15n			0	74-03N	DL14af
38	SN74ALS38N		TTL	4	2.0	0.8	8	1	0.0	7.0	7.0		30n	15n			0	74-03N	DL14r
39	SN74ALS133J		TTL	4	2.0	0.8	13	1	0	7.0	11n						0	74S133N	DL16dw
40	SN74ALS133N		TTL	4	2.0	0.8	13	1	0	7.0	11n						0	74S133N	DL16dx
41	SN74ALS1000J		TTL	4	2.0	0.8	8	4	0	7.0	8.0n						0	74ALS1000	DL14c
42	SN74ALS1000N		TTL	4	2.0	0.8	8	4	0	7.0	8.0n						0	74ALS1000	DL14n
43	SN74ALS1003J		TTL	4	2.0	0.8	8	4	0	7.0	30n						0	74ALS1003	DL14c
44	SN74ALS1020J		TTL	4	2.0	0.8	8	2	0	7.0	7.0						5	74ALS1020	DL14c
45	SN74ALS1020N		TTL	4	2.0	0.8	8	2	0	7.0	7.0						5	74ALS1020	DL14n
46	SN74AS804J		TTL	4	2.0	0.8	8	2	0.0	7.0	7.0		3n	3n			0	74AS804	DL20b
47	SN74AS804N		TTL	4	2.0	0.8	8	2	0.0	7.0	7.0		3n	3n			0	74AS804	DL20a
48	SN74H00J		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	10nΔ			200m	1.0		0	74-00N	DL14af
49	SN74H00N		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	10nΔ			200m	1.0		0	74-00N	DL14r
50	SN74H01J		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	9.0nΔ			90m†	1.0		0	74-03N	DL14af
51	SN74H01N		TTL	4	2.0*	.80Δ	2	10	0.0	5.0	9.0nΔ			90m†	1.0		0	74-03N	DL14r
52	SN74H10J		TTL	4	2.0*	.80Δ	3	10	0.0	5.0	10nΔ			90m†	1.0		0	74-10N	DL14af
53	SN74H10N		TTL	4	2.0*	.80Δ	3	10	0.0	5.0	10nΔ			90m†	1.0		0	74-10N	DL14r
54	SN74H20J		TTL	4	2.0*	.80Δ	4	10	0.0	5.0	10nΔ			100m	1.0		0	74-13N	DL14af
55	SN74H20N		TTL	4	2.0*	.80Δ	4	10	0.0	5.0	10nΔ			100m	1.0		0	74-13N	DL14r
56	SN74H22J		TTL	4	2.0*	.80Δ	4	10	0.0	5.0	15nΔ			100m	1.0		0	74-22N	DL14af
57	SN74H22N		TTL	4	2.0*	.80Δ	4	10	0.0	5.0	15nΔ			100m	1.0		0	74-22N	DL14r
58	SN74H30J		TTL	4	2.0*	.80Δ	8	10	0.0	5.0	12nΔ			50m	1.0		0	74-30N	DL14af
59	SN74H30N		TTL	4	2.0*	.80Δ	8	10	0.0	5.0	12nΔ			50m	1.0		0	74-30N	DL14r
60	SN74H40J		TTL	4	2.0*	.80Δ	4	30	0	7.0	10nΔ			1.0			0	74-13N	DL14af
61	SN74H40N		TTL	4	2.0*	.80Δ	4	30	0	7.0	10nΔ			1.0			0	74-13N	DL14r
62	SN74LS00J		TTL	4	2.0*	.80Δ	2	22	0.0	5.0	15nΔ			22m	1.0 *		0	74-00N	DL14af
63	SN74LS00N		TTL	4	2.0*	.80Δ	2	22	0.0	5.0	15nΔ			22m	1.0 *		0	74-00N	DL14r
64	SN74LS01J		TTL	4	2.0*0	.80Δ	2	22	0.0	5.0	32nΔ			22m	1.0 *		0	74-01N	DL14af
65	SN74LS01N		TTL	4	2.0*0	.80Δ	2	22	0.0	5.0	32nΔ			22m	1.0 *		0	74-01N	DL14r
66	SN74LS03J		TTL	4	2.0*0	.80Δ	2	22	0.0	5.0	32nΔ			22m	1.0 *		0	74-03N	DL14af
67	SN74LS03N		TTL	4	2.0*0	.80Δ	2	22	0.0	5.0	32nΔ			22m	1.0 *		0	74-03N	DL14r
68	SN74LS10J		TTL	4	2.0*	.80Δ	3	22	0.0	5.0	15nΔ			16m	1.0 *		0	74-10N	DL14af
69	SN74LS10N		TTL	4	2.0*	.80Δ	3	22	0.0	5.0	15nΔ			16m	1.0 *		0	74-10N	DL14r
70	SN74LS12J		TTL	4	2.0*	.80Δ	3	20	0.0	5.0	32nΔ			16m	400m*		0	74-12N	DL14af
71	SN74LS12N		TTL	4	2.0*	.80Δ	3	20	0.0	5.0	32nΔ			16m	400m*		0	74-12N	DL14r
72	SN74LS20J		TTL	4	2.0*	.80Δ	4	22	0.0	5.0	15nΔ			11m	1.0 *		0	74-13N	DL14af
73	SN74LS20N		TTL	4	2.0*	.80Δ	4	22	0.0	5.0	15nΔ			11m	1.0 *		0	74-13N	DL14r
74	SN74LS22J		TTL	4	2.0*0	.80Δ	4	22	0.0	5.0	32nΔ			11m	1.0 *		0	74-22N	DL14af
75	SN74LS22N		TTL	4	2.0*0	.80Δ	4	22	0.0	5.0	32nΔ			11m	1.0 *		0	74-22N	DL14r
76	SN74LS26J		TTL	4	2.0*	.80Δ	2	22	0.0	5.0	32nΔ			22m	400m*		0	74-03N	DL14af
77	SN74LS26N		TTL	4	2.0*	.80Δ	2	22	0.0	5.0	32nΔ			22m	400m*		0	74-03N	DL14r
78	SN74LS30J		TTL	4	2.0*	.80Δ	8	22	0.0	5.0	20nΔ			5.5m	1.0 *		0	74-30N	DL14af
79	SN74LS30N		TTL	4	2.0*	.80Δ	8	22	0.0	5.0	20nΔ			5.5m	1.0 *		0	74-30N	DL14r
80	SN74LS37J		TTL	4	2.0*	.80Δ	2	66	0.0	5.0	24nΔ			60m	1.0 *		0	74-00N	DL14af
81	SN74LS37N		TTL	4	2.0*	.80Δ	2	66	0.0	5.0	24nΔ			60m	1.0 *		0	74-00N	DL14r
82	SN74LS38J		TTL	4	2.0*0	.80Δ	2	66	0.0	5.0	32nΔ			60m	1.0 *		0	74-03N	DL14af
83	SN74LS38N	</																	

5. GATES

IN ORDER OF:(1)TECHNOLOGY(2)TYPE(3)LOGIC(4)LOGIC(5)TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN IN		POWER SUPPLY		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS		
					3 MIN. '1' (V)	4 MAX. '0' (V)	IN	OUT MAX.	NEG. (V)	POS (V)		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE	
1	SN74S140N		TTL	4	2.0*	80Δ	4	60	0.0	5.0	4.0n			110m	1.0	0	7	2	74-13N	DL14r
2	SN5400J		TTL	4	2.0*	80Δ	2	10	0.0	5.0	22nΔ			10m	1.0	5	C	2	74-00N	DL14af
3	SN5400W		TTL	4	2.0*	80Δ	2	10	0.0	5.0	22nΔ			40m†	1.0	5	C	4	54-00W	MO004AA
4	SN5401J		TTL	4	2.0*	80Δ	2	10	0.0	5.0	45nΔ			110m	1.0	5	C	4	74-01N	DL14af
5	SN5401W		TTL	4	2.0*	80Δ	2	10	0.0	5.0	45nΔ			110m	1.0	5	C	4	54-01W	MO004AA
6	SN5403J		TTL	4	2.0*	80Δ	2	10	0.0	5.0	45nΔ			40m†	1.0	5	C	4	74-03N	DL14af
7	SN5403W		TTL	4	2.0*	80Δ	2	10	0.0	5.0	45nΔ			40m†	1.0	5	C	4	54S03W	MO004AA
8	SN5410J		TTL	4	2.0*	80Δ	3	10	0.0	5.0	22nΔ			10m	1.0	5	C	3	74-10N	DL14ae
9	SN5410W		TTL	4	2.0*	80Δ	3	10	0.0	5.0	22nΔ			30m†	1.0	5	C	3	54-10W	MO004AA
10	SN5412J		TTL	4	2.0*	80Δ	3	10	0.0	5.0	45nΔ			82m	1.0	5	C	3	74-12N	DL14af
11	SN5412W		TTL	4	2.0*	80Δ	3	10	0.0	5.0	45nΔ			82m	1.0	5	C	3	54-12W	MO004AA
12	SN5422J		TTL	4	2.0*	80Δ	4	10	0.0	5.0	45nΔ			55m	1.0	5	C	2	74-22N	DL14af
13	SN5422W		TTL	4	2.0*	80Δ	4	10	0.0	5.0	45nΔ			55m	1.0	5	C	2	54-22W	MO004AA
14	SN5426J		TTL	4	2.0*	80Δ	2	10	0.0	5.0	24nΔ			110m†	1.0	5	C	4	74-03N	DL14af
15	SN5426W		TTL	4	2.0*	80Δ	2	10	0.0	5.0	24nΔ			110m†	1.0	5	C	4	54S03W	MO004AA
16	SN5430J		TTL	4	2.0*	80Δ	8	10	0.0	5.0	22nΔ			10m†	1.0	5	C	1	74-30N	DL14af
17	SN5430W		TTL	4	2.0*	80Δ	8	10	0.0	5.0	22nΔ			10m†	1.0	5	C	1	54-30W	MO004AA
18	SN5437J		TTL	4	2.0*	80Δ	2	10	0.0	5.0	22nΔ			297m	1.0	5	C	4	74-00N	DL14af
19	SN5437W		TTL	4	2.0*	80Δ	2	10	0.0	5.0	22nΔ			297m	1.0	5	C	4	54S03W	MO004AA
20	SN5438J		TTL	4	2.0*	80Δ	2	10	0.0	5.0	22nΔ			297m	1.0	5	C	4	74-03N	DL14af
21	SN5438W		TTL	4	2.0*	80Δ	2	10	0.0	5.0	22nΔ			297m	1.0	5	C	4	54S03W	MO004AA
22	SN5440J		TTL	4	2.0*	80Δ	4	30	0.0	5.0	22nΔ			135m%	1.0	5	C	2	74-13N	DL14af
23	SN5440W		TTL	4	2.0*	80Δ	4	30	0.0	5.0	22nΔ			135m%	1.0	5	C	2	54-40W	MO004AA
24	SN7400J		TTL	4	2.0*	80Δ	2	10	0.0	5.0	22nΔ			10m	1.0	0	7	4	74-00N	DL14af
25	SN7400N		TTL	4	2.0*	80Δ	2	10	0.0	5.0	22nΔ			10m	1.0	0	7	4	74-00N	DL14af
26	SN7401J		TTL	4	2.0*	80Δ	2	10	0.0	5.0	45nΔ			110m	1.0	0	7	4	74-01N	DL14af
27	SN7401N		TTL	4	2.0*	80Δ	2	10	0.0	5.0	45nΔ			110m	1.0	0	7	4	74-01N	DL14af
28	SN7403J		TTL	4	2.0*	80Δ	2	10	0.0	5.0	45nΔ			40m†	1.0	0	7	4	74-03N	DL14af
29	SN7403N		TTL	4	2.0*	80Δ	2	10	0.0	5.0	45nΔ			40m†	1.0	0	7	4	74-03N	DL14af
30	SN7410J		TTL	4	2.0*	80Δ	3	10	0.0	5.0	22nΔ			10m	1.0	0	7	3	74-10N	DL14af
31	SN7410N		TTL	4	2.0*	80Δ	3	10	0.0	5.0	22nΔ			10m	1.0	0	7	3	74-10N	DL14af
32	SN7412J		TTL	4	2.0*	80Δ	3	10	0.0	5.0	45nΔ			82m	1.0	0	7	3	74-12N	DL14af
33	SN7412N		TTL	4	2.0*	80Δ	3	10	0.0	5.0	45nΔ			82m	1.0	0	7	3	74-12N	DL14af
34	SN7412W		TTL	4	2.0*	80Δ	3	10	0.0	5.0	45nΔ			82m	1.0	0	7	3	54-12W	MO004AA
35	SN7422J		TTL	4	2.0*	80Δ	4	10	0.0	5.0	24nΔ			55m	1.0	0	7	2	74-22N	DL14af
36	SN7422N		TTL	4	2.0*	80Δ	4	10	0.0	5.0	24nΔ			55m	1.0	0	7	2	74-22N	DL14af
37	SN7426J		TTL	4	2.0*	80Δ	2	10	0.0	5.0	24nΔ			110m%	1.0	0	7	4	74-03N	DL14af
38	SN7426N		TTL	4	2.0*	80Δ	2	10	0.0	5.0	24nΔ			110m%	1.0	0	7	4	74-03N	DL14af
39	SN7430J		TTL	4	2.0*	80Δ	8	10	0.0	5.0	22nΔ			10m†	1.0	0	7	1	74-30N	DL14af
40	SN7430N		TTL	4	2.0*	80Δ	8	10	0.0	5.0	22nΔ			10m†	1.0	0	7	1	74-30N	DL14af
41	SN7437J		TTL	4	2.0*	80Δ	2	10	0.0	5.0	22nΔ			297m	1.0	0	7	4	74-00N	DL14af
42	SN7437N		TTL	4	2.0*	80Δ	2	10	0.0	5.0	22nΔ			297m	1.0	0	7	4	74-00N	DL14af
43	SN7438J		TTL	4	2.0*	80Δ	2	10	0.0	5.0	22nΔ			297m	1.0	0	7	4	74-03N	DL14af
44	SN7438N		TTL	4	2.0*	80Δ	2	10	0.0	5.0	22nΔ			297m	1.0	0	7	4	74-03N	DL14af
45	SN7440J		TTL	4	2.0*	80Δ	4	30	0.0	5.0	22nΔ			135m%	1.0	0	7	2	74-13N	DL14af
46	SN7440N		TTL	4	2.0*	80Δ	4	30	0.0	5.0	22nΔ			135m%	1.0	0	7	2	74-13N	DL14af
47#	T74LS00B1		TTL	4	2.0*	80Δ	2	22d	0.0	5.0	5.0n			22m%	300m	0	7	4	74-00	DL14y
48#	T74LS00D1		TTL	4	2.0*	80Δ	2	22d	0.0	5.0	5.0n			22m%	300m	0	7	4	74-00	DL14av
49#	T74LS03B1		TTL	4	2.0*	80Δ	2	22d	0.0	5.0	14n			22m%	300m	0	7	4	74-03N	DL14y
50#	T74LS03D1		TTL	4	2.0*	80Δ	2	22d	0.0	5.0	14n			22m%	300m	0	7	4	74-03N	DL14av
51#	T74LS10B1		TTL	4	2.0*	80Δ	3	22d	0.0	5.0	6.0n			16m%	300m	0	7	3	74-10N	DL14y
52#	T74LS10D1		TTL	4	2.0*	80Δ	3	22d	0.0	5.0	6.0n			16m%	300m	0	7	3	74-10N	DL14av
53#	T74LS20B1		TTL	4	2.0*	80Δ	4	22d	0.0	5.0	7.0n			11m%	300m	0	7	2	74-13N	DL14y
54#	T74LS20D1		TTL	4	2.0*	80Δ	4	22d	0.0	5.0	7.0n			11m%	300m	0	7	2	74-13N	DL14av
55#	T74LS22B1		TTL	4	2.0*	80Δ	4	5	0.0	5.0	14n			11m%	300m	0	7	2	74-22N	DL14y
56#	T74LS22D1		TTL	4	2.0*	80Δ	4	5	0.0	5.0	14n			11m%	300m	0	7	2	74-22N	DL14av
57#	T74LS26B1		TTL	4	2.0*	80Δ	2	22d	0.0	5.0	22n			22m%	300m	0	7	4	74-03N	DL14y
58#	T74LS26D1		TTL	4	2.0*	80Δ	2	22d	0.0	5.0	22n			22m%	300m	0	7	4	74-03N	DL14av
59#	T74LS30B1		TTL	4	2.0*	80Δ	8	22d	0.0	5.0	9.0n			5.5m%	300m	0	7	1	74-30N	DL14y
60#	T74LS30D1		TTL	4	2.0*	80Δ	8	22d	0.0	5.0	9.0n			5.5m%	300m	0	7	1	74-30N	DL14av
61#	ZN5403E		TTL	4	2.0*	80Δ	2	10	0.0	5.0	45nΔ			40m†	1.0	5	C	4	74-03N	TO116
62#	ZN5403J		TTL	4	2.0*	80Δ	2	10	0.0	5.0	45nΔ			40m†	1.0	5	C	4	74-03N	DL14ap
63#	ZN5412E		TTL	4	2.0*	80Δ	3	10	0.0	5.0	45nΔ			82m	1.0	5	C	3	74-12N	TO116
64#	ZN5412J		TTL	4	2.0*	80Δ	3	10	0.0	5.0	45nΔ			82m	1.0	5	C	3	74-12N	DL14ap
65#	ZN5437E		TTL	4	2.0*	80Δ	2	10	0.0	5.0	22nΔ			297m	1.0	5	C	4	74-03N	TO116
66#	ZN5437J		TTL	4	2.0*	80Δ	2	10	0.0	5.0	22nΔ			297m	1.0	5	C	4	74-03N	DL14ap
67#	ZN5438E		TTL	4	2.0*	80Δ	2	10	0.0	5.0	22nΔ			297m	1.0	5	C	4	74-03N	TO116
68#	ZN5438J		TTL	4	2.0*	80Δ	2	10	0.0	5.0	22nΔ			297m	1.0	5	C	4	74-03N	DL14ap
69#	ZN7403E		TTL	4	2.0*	80Δ	2	10	0.0	5.0	45nΔ			40m†	1.0	0	7	4	74-03N	TO116
70#	ZN7403J		TTL	4	2.0*	80Δ	2	10	0.0	5.0	45nΔ			40m†	1.0	0	7	4	74-03N	DL14ap
71#	ZN7412E		TTL	4	2.0*	80Δ	3	10	0.0	5.0	45nΔ			82m	1.0	0	7	3	74-12N	TO116
72#	ZN7412J		TTL	4	2.0*	80Δ	3	10	0.0	5.0	45nΔ			82m	1.0	0	7	3	74-12N	DL14ap
73#	ZN7437E		TTL	4	2.0*	80Δ	2	10	0.0	5.0	22nΔ			297m	1.0	0	7	4	74-03N	TO116
74#	ZN7437J		TTL	4	2.0*	80Δ	2	10	0.0	5.0	22nΔ			297m	1.0	0	7	4	74-03N	DL14ap
75#	ZN7438E		TTL	4	2.0*	80Δ	2	10	0.0	5.0	22nΔ			297m	1.0	0	7	4	74-03N	TO116
76#	ZN7438J		TTL	4	2.0*	80Δ	2	10	0.0	5.0	22nΔ			297m	1.0	0	7	4	74-03N	DL14ap
77#	K155LA1		TTL	4	2.4	0														

5. GATES

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC (4) LOGIC (5) TYPE NO.

LINE No.	5	TYPE NO.	DATA SHT.	1	TECH	2	TYPE OF GATE	LOGIC LEVEL		FAN		POWER SUPPLY		PROPAGATION DELAY (S)	RISE TIME (S)	FALL TIME (S)	MAX. OPER. DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE (°C)	CKTS PER MOD	DRAWINGS		
								3	4	IN	OUT	NEG.	POS.								LOGIC OR BLOCK	OUTLINE	
								MIN. (V)	MAX. (V)	MAX.													
1		N8816F		TTL	4		4	2.6*	40Δ	4	20	0.0	5.0	13n	50n	31m	600m	0	7	2	G04-273a	DL14ad	
2		N8816J		TTL	4		4	2.6*	40Δ	4	20	0	5	13nΔ	50n	31m	600m	0	7	2	G04-273a	TO88	
3		N8870A		TTL	4		4	2.6*	40Δ	3	20	0	5	13nΔ	50n	31m	600m	0	7	3	74-10N	TO116	
4		N8870F		TTL	4		4	2.6*	40Δ	3	20	0.0	5.0	13nΔ	50n	31m	600m	0	7	3	74-10N	DL14ad	
5		N8870J		TTL	4		4	2.6*	40Δ	3	20	0	5	13nΔ	50n	31m	600m	0	7	3	54S10W	TO88	
6		N8880A		TTL	4		4	2.6*	40Δ	2	20	0	5	13nΔ	50n	31m	600m	0	7	4	74-01N	TO116	
7		N8880F		TTL	4		4	2.6*	40Δ	2	20	0.0	5.0	13nΔ	50n	31m	600m	0	7	4	74-01N	DL14ad	
8		N8880J		TTL	4		4	2.6*	40Δ	2	20	0	5	13nΔ	50n	31m	600m	0	7	4	74-01N	TO88	
9		N8881F		TTL	4		4	2.6*	40Δ	2	20	0.0	5.0	25nΔ	50n	31m	600m	0	7	4	74-01N	DL14ad	
10		S8808A		TTL	4		4	2.6*	40Δ	8	20	0	5	13nΔ	50n	31m	600m	5	5	1	74-30N	TO116	
11		S8808J		TTL	4		4	2.6*	40Δ	8	20	0	5	13nΔ	50n	31m	600m	5	5	1	54S30W	TO88	
12		S8816A		TTL	4		4	2.6*	40Δ	4	20	0	5	13nΔ	50n	31m	600m	5	5	2	G04-273a	TO116	
13		S8816F		TTL	4		4	2.6*	40Δ	4	20	0.0	5.0	13nΔ	50n	31m	600m	5	5	2	G04-273a	DL14ad	
14		S8816J		TTL	4		4	2.6*	40Δ	4	20	0	5	13nΔ	50n	31m	600m	5	5	2	G04-273a	TO88	
15		S8870A		TTL	4		4	2.6*	40Δ	3	20	0	5	13nΔ	50n	31m	600m	5	5	3	74-10N	TO116	
16		S8870F		TTL	4		4	2.6*	40Δ	3	20	0.0	5.0	13nΔ	50n	31m	600m	5	5	3	74-10N	DL14ad	
17		S8870J		TTL	4		4	2.6*	40Δ	3	20	0	5	13nΔ	50n	31m	600m	5	5	3	54S10W	TO88	
18		S8880A		TTL	4		4	2.6*	40Δ	2	20	0	5	13nΔ	50n	31m	600m	5	5	4	74-01N	TO116	
19		S8880F		TTL	4		4	2.6*	40Δ	2	20	0.0	5.0	13nΔ	50n	31m	600m	5	5	4	74-01N	DL14ad	
20		S8880J		TTL	4		4	2.6*	40Δ	2	20	0	5	13nΔ	50n	31m	600m	5	5	4	74-01N	TO88	
21		S8881F		TTL	4		4	2.6*	40Δ	2	20	0.0	5.0	25nΔ	50n	31m	600m	5	5	4	74-01N	DL14ad	
22		SN74S240N		TTL	4		4	2.7	50	1	32	0.0	5.0	3.5n		600m†	1.0	0	7	8	74S240N		
23		SN74S241N		TTL	4		4	2.7	50	1	32	0.0	5.0	5.0n		700m†	1.0	0	7	8	74S241N		
24		RG202CJ		TTL	4		4	3.0*	40Δ	10	9	0.0	5.0	15nΔ	4.5n	3.0n	22m†	1.0	0	7	1	G04-240c	FP52j
25		RG202CK		TTL	4		4	3.0*	40Δ	10	9	0.0	5.0	15nΔ	4.5n	3.0n	22m†	1.0	0	7	1	G04-240c	FP52k
26		RG202DC		TTL	4		4	3.0*	40Δ	10	9	0.0	5.0	15nΔ	4.5n	3.0n	22m†	1.0	0	7	1	G04-240c	DL14be
27		RG203CJ		TTL	4		4	3.0*	40Δ	10	5	0.0	5.0	15nΔ	4.5n	3.0n	22m†	1.0	0	7	1	G04-240c	FP52j
28		RG203CK		TTL	4		4	3.0*	40Δ	10	5	0.0	5.0	15nΔ	4.5n	3.0n	22m†	1.0	0	7	1	G04-240c	FP52k
29		RG203DC		TTL	4		4	3.0*	40Δ	10	5	0.0	5.0	15nΔ	4.5n	3.0n	22m†	1.0	0	7	1	G04-240c	DL14be
30		RG122CJ		TTL	4		4	3.1*	40Δ	10	12	0.0	5.0	28nΔ	8.0n	5.0n	15m†	900m	0	7	1	G04212h	FP52j
31		RG122CK		TTL	4		4	3.1*	40Δ	10	12	0.0	5.0	28nΔ	8.0n	5.0n	15m†	900m	0	7	1	G04212h	FP52k
32		RG122DC		TTL	4		4	3.1*	40Δ	10	12	0.0	5.0	28nΔ	8.0n	5.0n	15m†	900m	0	7	1	G04212h	DL14be
33		RG123CJ		TTL	4		4	3.1*	40Δ	10	6	0.0	5.0	28nΔ	8.0n	5.0n	15m†	900m	0	7	1	G04212h	FP52j
34		RG123CK		TTL	4		4	3.1*	40Δ	10	6	0.0	5.0	28nΔ	8.0n	5.0n	15m†	900m	0	7	1	G04212h	FP52k
35		RG123DC		TTL	4		4	3.1*	40Δ	10	6	0.0	5.0	28nΔ	8.0n	5.0n	15m†	900m	0	7	1	G04212h	DL14be
36		RG200CJ		TTL	4		4	3.1*	40Δ	10	11	0.0	5.0	15nΔ	4.5n	3.0n	22m†	1.0	0	7	1	G04-240c	FP52j
37		RG200CK		TTL	4		4	3.1*	40Δ	10	11	0.0	5.0	15nΔ	4.5n	3.0n	22m†	1.0	0	7	1	G04-240c	FP52k
38		RG200DC		TTL	4		4	3.1*	40Δ	10	11	0.0	5.0	15nΔ	4.5n	3.0n	22m†	1.0	0	7	1	G04-240c	DL14be
39		RG201CJ		TTL	4		4	3.1*	40Δ	10	6	0.0	5.0	15nΔ	4.5n	3.0n	22m†	1.0	0	7	1	G04-240c	FP52j
40		RG201CK		TTL	4		4	3.1*	40Δ	10	6	0.0	5.0	15nΔ	4.5n	3.0n	22m†	1.0	0	7	1	G04-240c	FP52k
41		RG201DC		TTL	4		4	3.1*	40Δ	10	6	0.0	5.0	15nΔ	4.5n	3.0n	22m†	1.0	0	7	1	G04-240c	DL14be
42		RG322CJ		TTL	4		4	3.1*	40Δ	3	9	0.0	5.0	10nΔ	4.0n	2.5n	66m†	1.0	0	7	3	G04-191a	FP52j
43		RG322CK		TTL	4		4	3.1*	40Δ	3	9	0.0	5.0	10nΔ	4.0n	2.5n	66m†	1.0	0	7	3	G04-191a	FP52k
44		RG322DC		TTL	4		4	3.1*	40Δ	3	9	0.0	5.0	10nΔ	4.0n	2.5n	66m†	1.0	0	7	3	G04-191a	DL14be
45		RG323CJ		TTL	4		4	3.1*	40Δ	3	5	0.0	5.0	10nΔ	4.0n	2.5n	66m†	1.0	0	7	3	G04-191a	FP52j
46		RG323CK		TTL	4		4	3.1*	40Δ	3	5	0.0	5.0	10nΔ	4.0n	2.5n	66m†	1.0	0	7	3	G04-191a	FP52k
47		RG323DC		TTL	4		4	3.1*	40Δ	3	5	0.0	5.0	10nΔ	4.0n	2.5n	66m†	1.0	0	7	3	G04-191a	DL14be
48		RG120CJ		TTL	4		4	3.2*	40Δ	10	15	0.0	5.0	28nΔ	8.0n	5.0n	15m†	900m	5	5	1	G04212h	FP52j
49		RG120CK		TTL	4		4	3.2*	40Δ	10	15	0.0	5.0	28nΔ	8.0n	5.0n	15m†	900m	5	5	1	G04212h	FP52k
50		RG120DC		TTL	4		4	3.2*	40Δ	10	15	0.0	5.0	28nΔ	8.0n	5.0n	15m†	900m	5	5	1	G04212h	DL14be
51		RG121CJ		TTL	4		4	3.2*	40Δ	10	7	0.0	5.0	28nΔ	8.0n	5.0n	15m†	900m	5	5	1	G04212h	FP52j
52		RG121CK		TTL	4		4	3.2*	40Δ	10	7	0.0	5.0	28nΔ	8.0n	5.0n	15m†	900m	5	5	1	G04212h	FP52k
53		RG121DC		TTL	4		4	3.2*	40Δ	10	7	0.0	5.0	28nΔ	8.0n	5.0n	15m†	900m	5	5	1	G04212h	DL14be
54		RG320CJ		TTL	4		4	3.2*	40Δ	3	11	0.0	5.0	10nΔ	4.0n	2.5n	66m†	1.0	0	7	2	G04-191a	FP52j
55		RG320CK		TTL	4		4	3.2*	40Δ	3	11	0.0	5.0	10nΔ	4.0n	2.5n	66m†	1.0	0	7	2	G04-191a	FP52k
56		RG320DC		TTL	4		4	3.2*	40Δ	3	11	0.0	5.0	10nΔ	4.0n	2.5n	66m†	1.0	0	7	2	G04-191a	DL14be
57		RG321CJ		TTL	4		4	3.2*	40Δ	3	6	0.0	5.0	10nΔ	4.0n	2.5n	66m†	1.0	0	7	3	G04-191a	FP52j
58		RG321CK		TTL	4		4	3.2*	40Δ	3	6	0.0	5.0	10nΔ	4.0n	2.5n	66m†	1.0	0	7	3	G04-191a	FP52k
59		RG321DC		TTL	4		4	3.2*	40Δ	3	6	0.0	5.0	10nΔ	4.0n	2.5n	66m†	1.0	0	7	3	G04-191a	DL14be
60		RG400CJ		TTL	4		4	3.4	20	4	15	0.0	5.0	10n			30m†	1.1	0	7	2	G04-71	FP52j
61		RG400CK		TTL	4		4	3.4	20	4	15	0.0	5.0	10n			30m†	1.1	0	7	2	G04-71	FP52k
62		RG400DC		TTL	4		4	3.4	20	4	15	0.0	5.0	10n			30m†	1.1	0	7	2	G04-71	DL14be
63		RG410CJ		TTL	4		4	3.4	20	4	7	0.0	5.0	10n			30m†	1.1	0	7	2	G04-71	FP52j
64		RG410CK		TTL	4		4	3.4	20	4	7	0.0	5.0	10n			30m†	1.1	0	7	2	G04-71	FP52k
65		RG410DC		TTL	4		4	3.4	20	4	7	0.0	5.0	10n			30m†	1.1	0	7	2	G04-71	DL14be
66		RG420CJ		TTL	4		4	3.4	20	4	12	0.0	5.0	10n			30m†	1.1	0	7	2	G04-71	FP52j
67		RG420CK		TTL	4		4	3.4	20	4	12	0.0	5.0	10n			30m†	1.1	0	7	2	G04-71	FP52k
68		RG420DC		TTL	4		4	3.4	20	4	12	0.0	5.0	10n			30m†	1.1	0	7	2	G04-71	DL14be
69		RG430CJ		TTL	4		4	3.4	20														

5. GATES

IN ORDER OF:(1)TECHNOLOGY(2)TYPE(3)LOGIC*1
(4)LOGIC*(5)TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN IN		POWER SUPPLY SPAN		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE (C)	CKTS PER MOD	DRAWINGS		
					3 MIN. (V)	4 MAX. (V)	IN	OUT	NEG. (V)	POS (V)		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE	
								MAX.												
1	RG221CJ		TTL	4	3.5	.20	2	6	0.0	5.0	6.0n			88mt	1.0	5	C	4	G04-240b	FP52j
2	RG221CK		TTL	4	3.5	.20	2	6	0.0	5.0	6.0n			88mt	1.0	5	C	4	G04-240b	FP52k
3	RG221DC		TTL	4	3.5	.20	2	6	0.0	5.0	6.0n			88mt	1.0	5	C	4	G04-240b	DL14be
4	RG222CJ		TTL	4	3.5	.20	2	9	0.0	5.0	6.0n			88mt	1.0	0	7	4	G04-240b	FP52j
5	RG222CK		TTL	4	3.5	.20	2	9	0.0	5.0	6.0n			88mt	1.0	0	7	4	G04-240b	FP52k
6	RG222DC		TTL	4	3.5	.20	2	9	0.0	5.0	6.0n			88mt	1.0	0	7	4	G04-240b	DL14be
7	RG223CJ		TTL	4	3.5	.20	2	5	0.0	5.0	6.0n			88mt	1.0	0	7	4	G04-240b	FP52j
8	RG223CK		TTL	4	3.5	.20	2	5	0.0	5.0	6.0n			88mt	1.0	0	7	4	G04-240b	FP52k
9	RG223DC		TTL	4	3.5	.20	2	5	0.0	5.0	6.0n			88mt	1.0	0	7	4	G04-240b	DL14be
10	RG240CJ		TTL	4	3.5	.20	4	11	0.0	5.0	6.0n			44mt	1.0	5	C	2	G04-240	FP52j
11	RG240CK		TTL	4	3.5	.20	4	11	0.0	5.0	6.0n			44mt	1.0	5	C	2	G04-240	FP52k
12	RG240DC		TTL	4	3.5	.20	4	11	0.0	5.0	6.0n			44mt	1.0	5	C	2	G04-240	DL14be
13	RG241CJ		TTL	4	3.5	.20	4	6	0.0	5.0	6.0n			44mt	1.0	5	C	2	G04-240	FP52j
14	RG241CK		TTL	4	3.5	.20	4	6	0.0	5.0	6.0n			44mt	1.0	5	C	2	G04-240	FP52k
15	RG241DC		TTL	4	3.5	.20	4	6	0.0	5.0	6.0n			44mt	1.0	5	C	2	G04-240	DL14be
16	RG242CJ		TTL	4	3.5	.20	4	9	0.0	5.0	6.0n			44mt	1.0	0	7	2	G04-240	FP52j
17	RG242CK		TTL	4	3.5	.20	4	9	0.0	5.0	6.0n			44mt	1.0	0	7	2	G04-240	FP52k
18	RG242DC		TTL	4	3.5	.20	4	9	0.0	5.0	6.0n			44mt	1.0	0	7	2	G04-240	DL14be
19	RG243CJ		TTL	4	3.5	.20	4	5	0.0	5.0	6.0n			44mt	1.0	0	7	2	G04-240	FP52j
20	RG243CK		TTL	4	3.5	.20	4	5	0.0	5.0	6.0n			44mt	1.0	0	7	2	G04-240	FP52k
21	RG243DC		TTL	4	3.5	.20	4	5	0.0	5.0	6.0n			44mt	1.0	0	7	2	G04-240	DL14be
22	RG260CJ		TTL	4	3.5	.20	8	11	0.0	5.0	8.0n			22mt	1.0	5	C	1	G04-240a	FP52j
23	RG260CK		TTL	4	3.5	.20	8	11	0.0	5.0	8.0n			22mt	1.0	5	C	1	G04-240a	FP52k
24	RG260DC		TTL	4	3.5	.20	8	11	0.0	5.0	8.0n			22mt	1.0	5	C	1	G04-240a	DL14be
25	RG261CJ		TTL	4	3.5	.20	8	6	0.0	5.0	8.0n			22mt	1.0	5	C	1	G04-240a	FP52j
26	RG261CK		TTL	4	3.5	.20	8	6	0.0	5.0	8.0n			22mt	1.0	5	C	1	G04-240a	FP52k
27	RG261DC		TTL	4	3.5	.20	8	6	0.0	5.0	8.0n			22mt	1.0	5	C	1	G04-240a	DL14be
28	RG262CJ		TTL	4	3.5	.20	8	9	0.0	5.0	8.0n			22mt	1.0	0	7	1	G04-240a	FP52j
29	RG262CK		TTL	4	3.5	.20	8	9	0.0	5.0	8.0n			22mt	1.0	0	7	1	G04-240a	FP52k
30	RG262DC		TTL	4	3.5	.20	8	9	0.0	5.0	8.0n			22mt	1.0	0	7	1	G04-240a	DL14be
31	RG263CJ		TTL	4	3.5	.20	8	5	0.0	5.0	8.0n			22mt	1.0	0	7	1	G04-240a	FP52j
32	RG263CK		TTL	4	3.5	.20	8	5	0.0	5.0	8.0n			22mt	1.0	0	7	1	G04-240a	FP52k
33	RG263DC		TTL	4	3.5	.20	8	5	0.0	5.0	8.0n			22mt	1.0	0	7	1	G04-240a	DL14be
34#	ZN5400E		TTL	4	3.5	.20	2	10	0.0	5.0	29n			10m	1.0	5	C	4		DL14m
35#	ZN5400F		TTL	4	3.5	.20	2	10	0.0	5.0	29n			10m	1.0	5	C	4		TO86
36#	ZN5401E		TTL	4	3.5	.20	2	10	0.0	5.0	29n			10m	1.0	5	C	4		DL14m
37#	ZN5401F		TTL	4	3.5	.20	2	10	0.0	5.0	29n			10m	1.0	5	C	4		TO86
38#	ZN5410E		TTL	4	3.5	.20	3	10	0.0	5.0	29n			10m	1.0	5	C	3		DL14m
39#	ZN5410F		TTL	4	3.5	.20	3	10	0.0	5.0	29n			10m	1.0	5	C	3		TO86
40#	ZN5420E		TTL	4	3.5	.20	4	10	0.0	5.0	29n			10m	1.0	5	C	2		DL14m
41#	ZN5420F		TTL	4	3.5	.20	4	10	0.0	5.0	29n			10m	1.0	5	C	2		TO86
42#	ZN5430E		TTL	4	3.5	.20	8	10	0.0	5.0	29n			10m	1.0	5	C	1		DL14m
43#	ZN5430F		TTL	4	3.5	.20	8	10	0.0	5.0	29n			10m	1.0	5	C	1		TO86
44#	ZN5440E		TTL	4	3.5	.20	4	10	0.0	5.0	29n			10m	1.0	5	C	2		DL14m
45#	ZN5440F		TTL	4	3.5	.20	4	10	0.0	5.0	29n			10m	1.0	5	C	2		TO86
46#	ZN7400E		TTL	4	3.5	.20	2	10	0.0	5.0	29n			10m	1.0	5	C	4		DL14m
47#	ZN7400F		TTL	4	3.5	.20	2	10	0.0	5.0	29n			10m	1.0	5	C	4		TO86
48#	ZN7401E		TTL	4	3.5	.20	2	10	0.0	5.0	29n			10m	1.0	5	C	4		DL14m
49#	ZN7401F		TTL	4	3.5	.20	2	10	0.0	5.0	29n			10m	1.0	5	C	4		TO86
50#	ZN7410E		TTL	4	3.5	.20	3	10	0.0	5.0	29n			10m	1.0	5	C	3		DL14m
51#	ZN7410F		TTL	4	3.5	.20	3	10	0.0	5.0	29n			10m	1.0	5	C	3		TO86
52#	ZN7420E		TTL	4	3.5	.20	4	10	0.0	5.0	29n			10m	1.0	5	C	2		DL14m
53#	ZN7420F		TTL	4	3.5	.20	4	10	0.0	5.0	29n			10m	1.0	5	C	2		TO86
54#	ZN7430E		TTL	4	3.5	.20	8	10	0.0	5.0	29n			10m	1.0	5	C	1		DL14m
55#	ZN7430F		TTL	4	3.5	.20	8	10	0.0	5.0	29n			10m	1.0	5	C	1		TO86
56#	ZN7440E		TTL	4	3.5	.20	4	10	0.0	5.0	29n			10m	1.0	5	C	2		DL14m
57#	ZN7440F		TTL	4	3.5	.20	4	10	0.0	5.0	29n			10m	1.0	5	C	2		TO86
58	SP357A		TTL	4	3.5*	.60CΔ	2	40	0.0	5.0	50nΔ			92m	300m*	0	7	4	G04-436	TO116
59	5410FM		TTL	4	2.0*	.40Δ	3	20	0.0	5.0	22nΔ					5	C	3	54-10	FP52
60#	HD74ALS00		TTL	4.0	2.0	0.8				5.0	4.0n				0.4	0	7	4		DL14j
61#	HD74ALS01		TTL	4.0	2.0	0.8				5.0	20n				0.4	0	7	4		DL14j
62#	HD74ALS03		TTL	4.0	2.0	0.8				5.0	20n				0.4	0	7	4		DL14j
63#	HD74ALS20		TTL	4.0	2.0	0.8				5.0	4.0n				0.4	0	7	2		DL14j
64#	HD74ALS22		TTL	4.0	2.0	0.8				5.0	20n				0.4	0	7	2		DL14j
65	DM8810N		TTL	4E	2.0*	.80Δ	2		0.0	5.0	12n					0	7	4	74-03N	DL14q
66	DM8811N		TTL	4E	2.0*	.80Δ	2		0.0	5.0	12n					0	7	4	74-03N	DL14q
67	6N128		TTL	4M	2.0*	.80Δ	2		0.0	5.0	20nΔ					5	C	4	54-01W	TO84
68	6N129		TTL	4M	2.0*	.80Δ	3		0.0	5.0	20nΔ					5	C	3	54-10W	TO84
69	6N130		TTL	4M	2.0*	.80Δ	4		0.0	5.0	20nΔ					5	C	2	54-20W	TO84
70	6N131		TTL	4M	2.0*	.80Δ	8		0.0	5.0	20nΔ					5	C	1	54-30W	TO84
71	6N132		TTL	4M	2.0*	.80Δ	4		0.0	5.0	20nΔ					5	C	2	54-20W	TO84
72	5420DM		TTL	4M	2.0*	.80Δ	4	10	0.0	5.0	22nΔ			20mt	1.0	5	C	2	74-13N	TO116
73#	M53208P		TTL	4M	2.0*	.80Δ	2	10	0.0	5.0	27nΔ			130m%		0	7	4	74-08N	DL14d
74#	M53209P		TTL	4M	2.0*	.80Δ	2	10	0.0	5.0	32nΔ			130m%		0	7	4	74-09N	DL14d
75	SN5408J		TTL	4M	2.0*	.80Δ	2	10	0.0	5.0	27nΔ			165m		5	C	4	74-08N	DL14af
76	SN5408W		TTL	4M	2.0*	.80Δ	2	10	0.0	5.0	27nΔ			165m		5	C	4	54S08W	MO004AA
77	SN5409J		TTL	4M	2.0*	.80Δ	2	10	0.0	5.0	32nΔ			165m		5	C	4	74-09N	DL14ad
78	SN5409W		TTL	4M	2.0*	.80Δ	2	10	0.0	5.0	32nΔ			165m		5	C	4	54S09W	MO004AA
79	SN5420J		TTL	4M	2.0*	.80Δ	4	10	0.0	5.0	22nΔ			20mt	1.0	5	C	2	74-13N	DL14af
80	SN5420W		TTL	4M	2.0*	.80Δ	4	10	0.0	5.0	22nΔ			20mt	1.0	5				

5. GATES

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC (4) LOGIC TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN IN		POWER SUPPLY SPAN		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS		
					3 | MIN. '1' (V)	4 | MAX. '0' (V)	IN	OUT MAX.	NEG. (V)	POS (V)		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE	
1	S8H80J		TTL	4M	2.6*	.40C	2	30	0	0	6.0n		50n	46m	600m	5	+	4	54S00W	TO88
2	S8855A		TTL	4M	2.6*	.40C	4	60	0	0	15n		50n	57m	600m	5	+	2	TO116	
3	S8855F		TTL	4M	2.6*	.40C	4	60	0.0	5.0	15n		50n	57m	600m	5	+	2	DL14ad	
4	S8855J		TTL	4M	2.6*	.40C	4	60	0	0	15n		50n	57m	600m	5	+	2	54-20W	TO88
5	N8455A		TTL	4M	3.4*	.35C	4	25	0	0	95n		75n	28m	1.4	0	+	2	74-13N	TO116
6	N8455F		TTL	4M	3.4*	.35C	4	25	0.0	5.0	95n		75n	28m	1.4	0	+	2	74-13N	DL14ad
7	N8455J		TTL	4M	3.4*	.35C	4	25	0	0	95n		75n	28m	1.4	0	+	2	54-20W	TO88
8	S8455A		TTL	4M	3.4*	.35C	4	25	0	0	95n		75n	28m	1.4	5	+	2	74-13N	TO116
9	S8455F		TTL	4M	3.4*	.35C	4	25	0.0	5.0	95n		75n	28m	1.4	5	+	2	74-13N	DL14ad
10	S8455J		TTL	4M	3.4*	.35C	4	25	0	0	95n		75n	28m	1.4	5	+	2	54-20W	TO88
11	9014DM		TTL	5	1.7*	.90A	2	11	0.0	0.0	5			85m†		5	+	4	G02-132	DL16t
12	9014DC		TTL	5	1.8*	.85A	2	11	0.0	0.0	5			85m†		5	+	4	G02-132	DL16t
13	54LS136DM		TTL	5	2.0*	.70A	2	2.5	0.0	5.0	23n			50m*	300m	5	+	4	74-136N	TO116
14	54LS136FM		TTL	5	2.0*	.70A	2	2.5	0.0	5.0	23n			50m*	300m	5	+	4	54-136W	TO86
15	54LS386DM		TTL	5	2.0*	.70A	2	11d	0.0	5.0	17n			50m*	300m*	5	+	4	74L86N	TO116
16	54LS386FM		TTL	5	2.0*	.70A	2	11d	0.0	5.0	17n			50m*	300m*	5	+	4	54LS386W	FP21h
17	DM54L86J		TTL	5	2.0*	.70A	2	20	0.0	5.0	60n			4.0m†	0.4	5	+	4	74L86N	DL14ax
18	DM54L86W #mil		TTL	5	2.0*	.70A	2	4	0	8.0	60n					0	+	4	G05-122	FP97c
19	DM74L86N		TTL	5	2.0*	.70A	2	20	0.0	5.0	60n					0	+	4	74L86N	DL14bt
20	JANM38510/02601BCA		TTL	5	2.0*	.70A	2	10	0.0	5.5	275n			36m	400m*	5	+	4	74L86N	DL14bo
21	JANM38510/02601BCB		TTL	5	2.0*	.70A	2	10	0.0	5.5	275n			36m	400m*	5	+	4	74L86N	DL14bo
22	JANM38510/02601BDA		TTL	5	2.0*	.70A	2	10	0.0	5.5	275n			36m	400m*	5	+	4	54L86T	FP116
23	JANM38510/02601BDB		TTL	5	2.0*	.70A	2	10	0.0	5.5	275n			36m	400m*	5	+	4	54L86T	FP116
24	JANM38510/02601CCA		TTL	5	2.0*	.70A	2	10	0.0	5.5	275n			36m	400m*	5	+	4	74L86N	DL14bo
25	JANM38510/02601CCB		TTL	5	2.0*	.70A	2	10	0.0	5.5	275n			36m	400m*	5	+	4	74L86N	DL14bo
26	JANM38510/02601CDA		TTL	5	2.0*	.70A	2	10	0.0	5.5	275n			36m	400m*	5	+	4	54L86T	FP116
27	JANM38510/02601CDB		TTL	5	2.0*	.70A	2	10	0.0	5.5	275n			36m	400m*	5	+	4	54L86T	FP116
28	JANM38510/30502BAA		TTL	5	2.0*	.70A	2	11d	0.0	5.5	40n			55m	300m*	5	+	4	54-86w	FP115
29	JANM38510/30502BAB		TTL	5	2.0*	.70A	2	11d	0.0	5.5	40n			55m	300m*	5	+	4	54-86w	FP115
30	JANM38510/30502BAC		TTL	5	2.0*	.70A	2	11d	0.0	5.5	40n			55m	300m*	5	+	4	54-86w	FP115
31	JANM38510/30502BCA		TTL	5	2.0*	.70A	2	11d	0.0	5.5	40n			55m	300m*	5	+	4	74-86N	DL14bo
32	JANM38510/30502BCB		TTL	5	2.0*	.70A	2	11d	0.0	5.5	40n			55m	300m*	5	+	4	74-86N	DL14bo
33	JANM38510/30502BCC		TTL	5	2.0*	.70A	2	11d	0.0	5.5	40n			55m	300m*	5	+	4	74-86N	DL14bo
34	JANM38510/30502BDA		TTL	5	2.0*	.70A	2	11d	0.0	5.5	40n			55m	300m*	5	+	4	54-86w	FP116
35	JANM38510/30502BDB		TTL	5	2.0*	.70A	2	11d	0.0	5.5	40n			55m	300m*	5	+	4	54-86w	FP116
36	JANM38510/30502BDC		TTL	5	2.0*	.70A	2	11d	0.0	5.5	40n			55m	300m*	5	+	4	54-86w	FP116
37	JANM38510/30502CAA		TTL	5	2.0*	.70A	2	11d	0.0	5.5	40n			55m	300m*	5	+	4	54-86w	FP115
38	JANM38510/30502CAB		TTL	5	2.0*	.70A	2	11d	0.0	5.5	40n			55m	300m*	5	+	4	54-86w	FP115
39	JANM38510/30502CAC		TTL	5	2.0*	.70A	2	11d	0.0	5.5	40n			55m	300m*	5	+	4	54-86w	FP115
40	JANM38510/30502CCA		TTL	5	2.0*	.70A	2	11d	0.0	5.5	40n			55m	300m*	5	+	4	74-86N	DL14bo
41	JANM38510/30502CCB		TTL	5	2.0*	.70A	2	11d	0.0	5.5	40n			55m	300m*	5	+	4	74-86N	DL14bo
42	JANM38510/30502CCC		TTL	5	2.0*	.70A	2	11d	0.0	5.5	40n			55m	300m*	5	+	4	74-86N	DL14bo
43	JANM38510/30502CDA		TTL	5	2.0*	.70A	2	11d	0.0	5.5	40n			55m	300m*	5	+	4	54-86w	FP116
44	JANM38510/30502CDB		TTL	5	2.0*	.70A	2	11d	0.0	5.5	40n			55m	300m*	5	+	4	54-86w	FP116
45	JANM38510/30502CDC		TTL	5	2.0*	.70A	2	11d	0.0	5.5	40n			55m	300m*	5	+	4	54-86w	FP116
46	S54LS86F		TTL	5	2.0*	.70A	2	11d	0.0	5.5	40n			55m	300m*	5	+	4	54-86w	FP116
47	S54LS86W		TTL	5	2.0*	.70A	2	11d	0.0	5.5	30n			50m		5	+	4	74-86N	DL14bh
48	S54LS136F		TTL	5	2.0*	.70A	2	11d	0.0	5.5	30n			50m		5	+	4	54-86w	FP39e
49	S54LS136W		TTL	5	2.0*	.70A	2	11d	0.0	5.5	30n			50m		5	+	4	74-136N	DL14bh
50	S54LS386F		TTL	5	2.0*	.70A	2	11d	0.0	5.5	30n			50m		5	+	4	54-136W	FP39e
51	S54LS386W		TTL	5	2.0*	.70A	2	11d	0.0	5.5	30n			50m		5	+	4	74L86N	DL14bh
52	SN54L86J		TTL	5	2.0*	.70A	2	10	0.0	5.0	150n			19m†	1.0	5	+	4	54LS386W	FP39e
53	SN54L86W		TTL	5	2.0*	.70A	2	10	0.0	5.0	55n			19m†	1.0	5	+	4	74L86N	DL14af
54	SN54L86W #		TTL	5	2.0*	.70A	2	10	0.0	5.0	55n			30m†	300m*	5	+	4	54L86T	MO004AA
55	SN54LS86J		TTL	5	2.0*	.70A	2	10	0.0	5.0	10n			30m†	300m*	5	+	4	54L86T	FP52e
56	SN54LS86W		TTL	5	2.0*	.70A	2	10	0.0	5.0	10n			30m†	300m*	5	+	4	74-86N	DL14ci
57	SN54LS136J		TTL	5	2.0*	.70A	2	22d	0.0	5.0	30n			30m†		5	+	4	54-86	MO004AA
58	SN54LS136W		TTL	5	2.0*	.70A	2	22d	0.0	5.0	30n			30m†		5	+	4	74-136N	DL14af
59	SN54LS386J		TTL	5	2.0*	.70A	2	10d	0.0	5.0	30n			30m†	300m	5	+	4	54-136W	MO004AA
60	SN54LS386W		TTL	5	2.0*	.70A	2	10d	0.0	5.0	30n			30m†	300m	5	+	4	74L86N	DL14af
61 #	T54LS86D2		TTL	5	2.0*	.70A	2	11d	0.0	5.0	17n			50m*	300m	5	+	4	54LS386W	MO004AA
62 #	T54LS136D2		TTL	5	2.0*	.70A	2	2.5	0.0	5.0	23n			50m*	300m	5	+	4	74L86N	DL14av
63	54S86DM		TTL	5	2.0*	.80A	2	10	0.0	5.0	30n			150m†	1.0	5	+	4	74-86N	DL14bf
64	54S86FM		TTL	5	2.0*	.80A	2	10	0.0	5.0	30n			150m†	1.0	5	+	4	54-86W	FP52
65	74LS86DC		TTL	5	2.0*	.80A	2	5	0.0	5.0	17n			50m*	300m	0	+	7	74-86N	TO116
66	74LS86PC		TTL	5	2.0*	.80A	2	5	0.0	5.0	17n			50m*	300m	0	+	7	74-86N	TO116
67	74LS136DC		TTL	5	2.0*	.80A	2	5	0.0	5.0	23n			50m*	300m	0	+	7	74-136N	TO116
68	74LS136PC		TTL	5	2.0*	.80A	2	5	0.0	5.0	23n			50m*	300m	0	+	7	74-136N	TO116
69	74S86DC		TTL	5	2.0*	.80A	2	10	0.0	5.0	30n			150m†	1.0	5	+	4	74-86N	DL14bf
70	74S86PC		TTL	5	2.0*	.80A	2	10	0.0	5.0	30n			150m†	1.0	5	+	4	74-86N	DL14ce
71	5486DM		TTL	5	2.0*	.80A	2	10	0.0	5.0	30n			150m†	1.0	5	+	4	74-86N	TO116
72	5486FM		TTL	5	2.0*	.80A	2	10	0.0	5.0	30n			150m†	1.0	5	+	4	54-86W	FP21h
73	7486DC		TTL	5	2.0*	.80A	2	10	0.0	5.0	30n			150m†	1.0	5	+	4	74-86N	TO116
74	7486PC		TTL	5	2.0*	.80A	2	10	0.0	5.0	30n			150m†	1.0	5	+	4	74-86N	DL14ce
75	9014FM		TTL	5	2.0*	.80A	2	11	0.0	0.0	13n			85m†		5	+	4	G02-132	FP93c
76	DM74S86N		TTL	5	2.0															

5. GATES

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC (4) LOGIC TYPE NO. (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN IN		POWER SUPPLY		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE (C)	CKTS PER MOD	DRAWINGS	
					3 MIN. (V)	4 MAX. (V)	IN	OUT MAX.	NEG. (V)	POS (V)		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE
1#	HD74LS386P		TTL	5	2.0*	.80Δ			0.0	5.0	23nΔ			400m	300m	2	7	4	DL14cz
2#	M74LS86P		TTL	5	2.0*	.80Δ	2	20	0.0	5.0	17nΔ			15m†	400m*	2	7	4	DL14cf
3#	M74LS136P		TTL	5	2.0*	.80Δ	2	20	0.0	5.0	23nΔ			15m†	400m*	2	7	4	DL14cf
4#	M74LS266P		TTL	5	2.0*	.80Δ	2	22d	0.0	5.0	30nΔ			68m	400m*	2	7	4	G07-5
5#	M74LS386P		TTL	5	2.0*	.80Δ	20	20	-0.5	7.0	17m			525m	0.3	2	7	4	DL14cf
6	JANM38510/00701BAA		TTL	5	2.0*	.80Δ													DL14Z
7	JANM38510/00701BAB		TTL	5	2.0*	.80Δ	2	20	0.0	5.5	37nΔ			256m		5	C	4	FP115
8	JANM38510/00701BAC		TTL	5	2.0*	.80Δ	2	20	0.0	5.5	37nΔ			256m		5	C	4	54-86W
9	JANM38510/00701BCA		TTL	5	2.0*	.80Δ	2	20	0.0	5.5	37nΔ			256m		5	C	4	FP115
10	JANM38510/00701BCB		TTL	5	2.0*	.80Δ	2	20	0.0	5.5	37nΔ			256m		5	C	4	DL14bo
11	JANM38510/00701BDA		TTL	5	2.0*	.80Δ	2	20	0.0	5.5	37nΔ			256m		5	C	4	DL14bo
12	JANM38510/00701BDB		TTL	5	2.0*	.80Δ	2	20	0.0	5.5	37nΔ			256m		5	C	4	FP116
13	JANM38510/00701CAA		TTL	5	2.0*	.80Δ	2	20	0.0	5.5	37nΔ			256m		5	C	4	FP116
14	JANM38510/00701CAB		TTL	5	2.0*	.80Δ	2	20	0.0	5.5	37nΔ			256m		5	C	4	FP115
15	JANM38510/00701CAC		TTL	5	2.0*	.80Δ	2	20	0.0	5.5	37nΔ			256m		5	C	4	FP115
16	JANM38510/00701CCA		TTL	5	2.0*	.80Δ	2	20	0.0	5.5	37nΔ			256m		5	C	4	FP115
17	JANM38510/00701CCB		TTL	5	2.0*	.80Δ	2	20	0.0	5.5	37nΔ			256m		5	C	4	FP115
18	JANM38510/00701CDA		TTL	5	2.0*	.80Δ	2	20	0.0	5.5	37nΔ			256m		5	C	4	DL14bo
19	JANM38510/00701CDB		TTL	5	2.0*	.80Δ	2	20	0.0	5.5	37nΔ			256m		5	C	4	DL14bo
20	JANM38510/07501BCA		TTL	5	2.0*	.80Δ	2		0.0	5.5	16nΔ			548m		5	C	4	FP116
21	JANM38510/07501BCB		TTL	5	2.0*	.80Δ	2	10	0.0	5.5	16nΔ			548m		5	C	4	DL14bo
22	JANM38510/07501BDA		TTL	5	2.0*	.80Δ	2		0.0	5.5	16nΔ			548m		5	C	4	DL14bo
23	JANM38510/07501BDB		TTL	5	2.0*	.80Δ	2	10	0.0	5.5	16nΔ			548m		5	C	4	FP116
24	JANM38510/07501CCA		TTL	5	2.0*	.80Δ	2		0.0	5.5	16nΔ			548m		5	C	4	FP116
25	JANM38510/07501CCB		TTL	5	2.0*	.80Δ	2	10	0.0	5.5	16nΔ			548m		5	C	4	DL14bo
26	JANM38510/07501CDA		TTL	5	2.0*	.80Δ	2		0.0	5.5	16nΔ			548m		5	C	4	DL14bo
27	JANM38510/07501CDB		TTL	5	2.0*	.80Δ	2	10	0.0	5.5	16nΔ			548m		5	C	4	FP116
28#	M53286P		TTL	5	2.0*	.80Δ	2	10	0.0	5.0	14n			39m	1.0	0	7	4	DL14d
29#	MB74LS86		TTL	5	2.0*	.80Δ	2	20	0.0	5.0	30nΔ			30m†	1.0 *	2	7	4	DL14ai
30#	MB74LS86M		TTL	5	2.0*	.80Δ	2	20	0.0	5.0	30nΔ			30m†	1.0 *	2	7	4	DL14bn
31#	MB74LS136		TTL	5	2.0*	.80Δ	2	20	0.0	5.0	30nΔ			30m†	1.0 *	2	7	4	DL14ai
32#	MB74LS136M		TTL	5	2.0*	.80Δ	2	20	0.0	5.0	30nΔ			30m†	1.0 *	2	7	4	DL14bn
33#	MB74LS386		TTL	5	2.0*	.80Δ	2	20	0.0	5.0	30nΔ			40m†	1.0 *	2	7	4	DL14ai
34#	MB74LS386M		TTL	5	2.0*	.80Δ	2	20	0.0	5.0	30nΔ			40m†	1.0 *	2	7	4	DL14bn
35#	MB449		TTL	5	2.0*	.80ΔC	2	10	0.0	5.0				120m†		0	7	4	DL14aq
36#	MB449M		TTL	5	2.0*	.80ΔC	2	10	0.0	5.0				120m†		0	7	4	DL14ac
37	MC54F86(A)		TTL	5	2.0	.8	8		0.0	5.0	7.0n					5	C	4	DL14ci
38	MC54F86N(A)		TTL	5	2.0	.8	8		0.0	5.0	7.0n					5	C	4	DL14dg
39	MC74F86(A)		TTL	5	2.0	.8	8		0.0	5.0	6.5n					0	7	4	DL14ci
40	MC74F86N(A)		TTL	5	2.0	.8	8		0.0	5.0	6.5n					0	7	4	DL14dg
41#	N74F86F		TTL	5	2.0	.8	2		-0.5	7.0	5.5nΔ					0	7	4	DL14o
42#	N74F86N		TTL	5	2.0	.8	2		-0.5	7.0	5.5nΔ					0	7	4	DL14n
43	N74LS86F		TTL	5	2.0*	.80Δ	2	20	0.0	5.0	30nΔ			50m		0	7	4	DL14br
44	N74LS86N		TTL	5	2.0*	.80Δ	2	20	0.0	5.0	30nΔ			50m		0	7	4	DL14bh
45	N74LS136F		TTL	5	2.0*	.80Δ	2	20	0.0	5.0	30nΔ			50m		0	7	4	DL14bh
46	N74LS136N		TTL	5	2.0*	.80Δ	2	20	0.0	5.0	30nΔ			50m		0	7	4	DL14br
47	N74LS386F		TTL	5	2.0*	.80Δ	2	22d	0.0	5.0	30n			50m	300m*	0	7	4	DL14bh
48	N74LS386N		TTL	5	2.0*	.80Δ	2	22d	0.0	5.0	30n			50m	300m*	0	7	4	DL14br
49#	N74S86D		TTL	5	2.0*	.80Δ	2	10	0.0	5.0	10nΔ			375m	1.0 †	0	7	4	DL14bh
50	N74S86N		TTL	5	2.0*	.80Δ	2	10	0.0	5.0	10nΔ			375m	1.0 †	0	7	4	DL14br
51	N7486F		TTL	5	2.0*	.80Δ	2	10	0.0	5.0	30nΔ			250m	1.0 †	0	7	4	DL14bh
52	N7486N		TTL	5	2.0*	.80Δ	2	10	0.0	5.0	30nΔ			250m	1.0 †	0	7	4	DL14br
53#	S54F86F		TTL	5	2.0	.8			0.5	7.0	8.5nΔ	2.5n	2.5n			5	C	4	DL14Z
54#	S54F86W		TTL	5	2.0	.8	2		-0.5	7.0	5.5nΔ					5	C	4	FP153
55	S54S86F		TTL	5	2.0*	.80Δ	2	10	0.0	5.0	10nΔ			375m	1.0 †	5	C	4	DL14bh
56	S54S86W		TTL	5	2.0*	.80Δ	2	10	0.0	5.0	10nΔ			375m	1.0 †	5	C	4	FP39e
57#	SFC450E		TTL	5	2.0*	.80Δ	4	10	0	7	13n			20m†		0	7	2	TO116
58#	SFC450ET		TTL	5	2.0*	.80Δ	4	10	0.0	5.0	13n			20m†	400m	2	8	2	TO116
59#	SFC450HE		TTL	5	2.0*	.80Δ	2	10	0	7	6n			40m†	400m	0	7	2	TO116
60#	SFC450HPM		TTL	5	2.0*	.80Δ	4	10	0	7	6n			40m†	400m	5	C	2	ZBZ
61#	SFC450PM		TTL	5	2.0*	.80Δ	4	10	0	7	13n			20m†	400m	5	C	2	ZBZ
62#	SFC451E		TTL	5	2.0*	.80Δ	4	10	0	7	13n			20m†		0	7	2	TO116
63#	SFC451PM		TTL	5	2.0*	.80Δ	4	10	0	7	13n			20m†	400m	5	C	2	ZBZ
64#	SFC486E		TTL	5	2.0*	.80Δ	2	10	0.0	5.0	15n			1.0	0	7	4	DL14br	
65#	SFC486EM		TTL	5	2.0*	.80Δ	2	10	0.0	5.0	15n			1.0	0	7	4	DL14br	
66#	SFC486ET		TTL	5	2.0*	.80Δ	2	10	0.0	5.0	15n			1.0	2	8	4	DL14br	
67#	SFC486PM		TTL	5	2.0*	.80Δ	2	10	0.0	5.0	15n			1.0	5	C	4	54-86W	
68	SN54S86J		TTL	5	2.0*	.80Δ	2	10	0.0	5.0	7.0n			375m	1.0	5	C	4	DL14af
69	SN54S86W		TTL	5	2.0*	.80Δ	2	10	0.0	5.0	7.0n			375m	1.0	5	C	4	54-86W
70	SN74LS86J		TTL	5	2.0*	.80Δ	2	10	0.0	5.0	10n			30m†	400m*	0	7	4	DL14ci
71	SN74LS86N		TTL	5	2.0*	.80Δ	2	10	0.0	5.0	10n			30m†	400m*	0	7	4	DL14ci
72	SN74LS136J		TTL	5	2.0*	.80Δ	2	22d	0.0	5.0	30nΔ			30m†		0	7	4	DL14af
73	SN74LS136N		TTL	5	2.0*	.80Δ	2	22d	0.0	5.0	30nΔ			30m†		0	7	4	DL14r
74	SN74LS386J		TTL	5	2.0*	.80Δ	2	20d	0.0	5.0	30nΔ			30m†	300m	0	7	4	DL14af
75	SN74LS386N		TTL	5	2.0*	.80Δ	2	20d	0.0	5.0	30nΔ			30m†	300m	0	7	4	DL14r
76	SN74S86J		TTL	5	2.0*	.80Δ	2	10	0.0	5.0	7.0n			375m	1.0	0	7	4	DL14af
77	SN74S86N		TTL	5	2.0*	.80Δ	2	10	0.0	5.0	7.0n			375m	1.0	0	7	4	DL14r
78	SN5486J		TTL	5	2.0*	.80Δ	2	10	0.0	5.0	30nΔ			150m†	1.0	5	C	4	DL14af
79	SN5486W		TTL	5	2.0*	.80Δ	2	10	0.0	5.0	30nΔ			150m†	1.0	5	C	4	MO004AA
80	SN7486J		TTL	5	2.0*	.80Δ	2	10	0.0	5.0	30nΔ			150m†	1.0	0	7	4	DL14af
81#	SN7486N		TTL	5	2.0*	.80Δ	2	10	0.0	5.0	30nΔ			150m†	1.0	0	7	4	DL14r
82	SN54136J		TTL	5	2.0*	.80Δ	2		0.0	5.0	12n			150m†		5	C	4	DL14af
83	SN54136W		TTL	5	2.0*	.80Δ	2		0.0	5.0	12n			150m†					

5. GATES

IN ORDER OF (1) TECHNOLOGY (2) TYPE (3) LOGIC (4) LOGIC (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN		POWER SUPPLY	PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE (°C)	CKTS PER MOD	DRAWINGS				
					3 MIN. '1' (V)	4 MAX. '0' (V)	IN	OUT MAX.			RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE			
1#	T74LS138D1		TTL	5	2.0*	.80Δ	2	5	0.0	5.0	23n		50m†	300m	0	7	4	74-136N	DL14av		
2#	ZN5486E		TTL	5	2.0*	.80Δ	2	10	0.0	5.0	14n		150m†	5	5	4	4	74-86N	TO116		
3#	ZN5486J		TTL	5	2.0*	.80Δ	2	10	0.0	5.0	14n		150m†	5	5	4	4	74-86N	DL14ap		
4#	ZN7486E		TTL	5	2.0*	.80Δ	2	10	0.0	5.0	14n		150m†	0	7	4	4	74-86N	TO116		
5#	ZN7486J		TTL	5	2.0*	.80Δ	2	10	0.0	5.0	14n		150m†	0	7	4	4	74-86N	DL14ap		
6	MC3121F		TTL	5	2.4*	.40ΔC	2	8.0	0.0	5.0	14n		100m†	5	5	4	4	54-86w	TO86		
7	MC3121L		TTL	5	2.4*	.40ΔC	2	8	0.0	5.0	14n		100m†	5	5	4	4	74-86N	TO116		
8	MC3021L.P%		TTL	5	2.5*	.40ΔC	2	8	0.0	5.0	14n		100m†	0	7	4	4	G05-126	TO116		
9	N8241F		TTL	5	2.6*	.40ΔC	2	10	0.0	5.0	23nΔ		285m	0	7	4	4	54L86	DL14bh		
10	N8241N		TTL	5	2.6*	.40ΔC	2	10	0.0	5.0	23nΔ		285m	0	7	4	4	54L86	DL14br		
11	N8241Q		TTL	5	2.6*	.40C	2	20	0.0	5.0	10n	50n	300m	0	7	4	4	54L86T	TO88		
12	N8840A		TTL	5	2.6*	.40ΔC	4	20	0	5	13nΔ	50n	37m	600m	0	7	2	2	74-50N	TO116	
13	N8840F		TTL	5	2.6*	.40ΔC	4	20	0.0	5.0	13nΔ	50n	37m	600m	0	7	2	2	74-50N	DL14ad	
14	N8840J		TTL	5	2.6*	.40ΔC	4	20	0	5	13nΔ	50n	37m	600m	0	7	2	2	54-50W	TO88	
15	S8241F		TTL	5	2.6*	.40C	2	10	0.0	5.0	23nΔ		285m	5	5	4	4	54L86	DL14bh		
16	S8241W		TTL	5	2.6*	.40ΔC	2	10	0.0	5.0	23nΔ		285m	5	5	4	4	54L86T	FP39e		
17	S8840A		TTL	5	2.6*	.40ΔC	4	20	0	5	13nΔ	50n	37m	600m	0	7	2	2	74-50N	TO116	
18	S8840F		TTL	5	2.6*	.40ΔC	4	20	0.0	5.0	13nΔ	50n	37m	600m	0	7	2	2	74-50N	DL14ad	
19	S8840J		TTL	5	2.6*	.40ΔC	4	20	0	5	13nΔ	50n	37m	600m	0	7	2	2	54-50W	TO88	
20	N82S41F		TTL	5	2.7*	.50ΔC	2	50	0.0	5.0	10nΔ		275m	0	7	4	4	74L86N	DL14bh		
21	N82S41N		TTL	5	2.7*	.50ΔC	2	50	0.0	5.0	10nΔ		275m	0	7	4	4	74L86N	DL14br		
22	N8440A		TTL	5	3.4*	.35ΔC	4	9	0	5	95n	75n	29m	1.4	0	7	2	2	G05-92	TO116	
23	N8440F		TTL	5	3.4*	.35ΔC	4	9	0.0	5.0	95n	75n	29m	1.4	0	7	2	2	G05-92	DL14ad	
24	N8440J		TTL	5	3.4*	.35ΔC	4	9	0	5	95n	75n	29m	1.4	0	7	2	2	G05-92	TO88	
25	S8440A		TTL	5	3.4*	.35ΔC	4	9	0	5	95n	75n	29m	1.4	5	2	2	2	G05-92	TO116	
26	S8440F		TTL	5	3.4*	.35ΔC	4	9	0.0	5.0	95n	75n	29m	1.4	5	2	2	2	G05-92	DL14ad	
27	S8440J		TTL	5	3.4*	.35ΔC	4	9	0	5	95n	75n	29m	1.4	5	2	2	2	G05-92	TO88	
28#	ZN5450E		TTL	5	3.5	.20	6	10	0.0	5.0	29n		10m	1.0	5	2	2	2	DL14m	TO86	
29#	ZN5450F		TTL	5	3.5	.20	6	10	0.0	5.0	29n		10m	1.0	5	2	2	2	DL14m	TO86	
30#	ZN5451E		TTL	5	3.5	.20	4	10	0.0	5.0	29n		10m	1.0	5	2	2	2	DL14m	TO86	
31#	ZN5451F		TTL	5	3.5	.20	4	10	0.0	5.0	29n		10m	1.0	5	2	2	2	DL14m	TO86	
32#	ZN7450E		TTL	5	3.5	.20	6	10	0.0	5.0	29n		10m	1.0	5	2	2	2	DL14m	TO86	
33#	ZN7450F		TTL	5	3.5	.20	6	10	0.0	5.0	29n		10m	1.0	5	2	2	2	DL14m	TO86	
34#	ZN7451E		TTL	5	3.5	.20	4	10	0.0	5.0	29n		10m	1.0	5	2	2	2	DL14m	TO86	
35#	ZN7451F		TTL	5	3.5	.20	4	10	0.0	5.0	29n		10m	1.0	5	2	2	2	DL14m	TO86	
36	MM481		TTL	5	-8.0*	-1.0ΔC	2	10	10	0	130		24m	5	2	2	2	2	G05-97	TO100	
37	MM581		TTL	5	-8.0*	-1.0ΔC	2	10	10	0	130		24m	5	2	2	2	2	G05-97	TO100	
38	DM74S135N		TTL	5	2.0*	.80Δ	2	20	0.0	5.0	15nΔ		495m†	0	7	2	2	2	74S135N	DL14bt	
39	N74S86W		TTL	5	2.0*	.80Δ	2	20	0.0	5.0	10nΔ		76m†	1.0	†	4	4	4	54-86W	FP39e	
40	N74S135F		TTL	5	2.0*	.80Δ	3	10	0.0	5.0	15nΔ		495m	1.0	†	2	2	2	74S135N	DL16aw	
41	N74S135N		TTL	5	2.0*	.80Δ	3	10	0.0	5.0	15nΔ		495m	1.0	†	4	4	4	74S135N	DL16bp	
42	S54S135F		TTL	5	2.0*	.80Δ	3	10	0.0	5.0	15nΔ		495m	1.0	†	2	2	2	74S135N	DL16aw	
43	S54S135W		TTL	5	2.0*	.80Δ	3	10	0.0	5.0	15nΔ		495m	1.0	†	2	2	2	54S135W	FP47g	
44	SN54S135J		TTL	5	2.0*	.80Δ	3	10	0.0	5.0	15nΔ		325m†	5	2	2	2	4	74S135N	DL16v	
45	SN54S135W		TTL	5	2.0*	.80Δ	3	10	0.0	5.0	15nΔ		325m†	5	2	2	2	4	54S135W	MO004AG	
46	SN74S135J		TTL	5	2.0*	.80Δ	3	10	0.0	5.0	15nΔ		325m†	0	7	4	4	4	74S135N	DL16v	
47	SN74S135N		TTL	5	2.0*	.80Δ	3	10	0.0	5.0	15nΔ		325m†	0	7	4	4	4	74S135N	DL16i	
48	RG92CJ		TTL	5	3.1*	.40Δ	8	12	0.0	5.0	22nΔ	8.0n	6.0n	35m†	900m	0	7	1	1	G05-79	FP52j
49	RG92CK		TTL	5	3.1*	.40Δ	8	12	0.0	5.0	22nΔ	8.0n	6.0n	35m†	900m	0	7	1	1	G05-79	FP52k
50	RG92DC		TTL	5	3.1*	.40Δ	8	12	0.0	5.0	22nΔ	8.0n	6.0n	35m†	900m	0	7	1	1	G05-79	DL14be
51	RG93CJ		TTL	5	3.1*	.40Δ	8	6	0.0	5.0	22nΔ	8.0n	6.0n	35m†	900m	0	7	1	1	G05-79	FP52j
52	RG93CK		TTL	5	3.1*	.40Δ	8	6	0.0	5.0	22nΔ	8.0n	6.0n	35m†	900m	0	7	1	1	G05-79	FP52k
53	RG93DC		TTL	5	3.1*	.40Δ	8	6	0.0	5.0	22nΔ	8.0n	6.0n	35m†	900m	0	7	1	1	G05-79	DL14be
54	RG90CJ		TTL	5	3.2*	.40Δ	8	15	0.0	5.0	22nΔ	8.0n	6.0n	35m†	900m	5	2	2	2	G05-79	FP52j
55	RG90CK		TTL	5	3.2*	.40Δ	8	15	0.0	5.0	22nΔ	8.0n	6.0n	35m†	900m	5	2	2	2	G05-79	FP52k
56	RG90DC		TTL	5	3.2*	.40Δ	8	15	0.0	5.0	22nΔ	8.0n	6.0n	35m†	900m	5	2	2	2	G05-79	DL14be
57	RG91CJ		TTL	5	3.2*	.40Δ	8	7	0.0	5.0	22nΔ	8.0n	6.0n	35m†	900m	5	2	2	2	G05-79	FP52j
58	RG91CK		TTL	5	3.2*	.40Δ	8	7	0.0	5.0	22nΔ	8.0n	6.0n	35m†	900m	5	2	2	2	G05-79	FP52k
59	RG91DC		TTL	5	3.2*	.40Δ	8	7	0.0	5.0	22nΔ	8.0n	6.0n	35m†	900m	5	2	2	2	G05-79	DL14be
60	N8906A		TTL	6			5	5	0	5	26nΔ		8.9m	600m	0	7	2	2	74-60N	TO116	
61	N8906F		TTL	6			5	5	0.0	5.0	26nΔ		8.9m	600m	0	7	2	2	74-60N	DL14ad	
62	N8906J		TTL	6			5	5	0	5	26nΔ		8.9m	600m	0	7	2	2	74-60	TO88	
63	S8906A		TTL	6			5	5	0	5	26nΔ		8.9m	600m	5	2	2	2	74-60N	TO116	
64	S8906F		TTL	6			5	5	0.0	5.0	26nΔ		8.9m	600m	5	2	2	2	74-60N	DL14ad	
65	S8906J		TTL	6			5	5	0	5	26nΔ		8.9m	600m	5	2	2	2	54-60W	TO88	
66	DM9006CJ		TTL	6	1.6*	.85Δ	5	5	0.0	5.0	4.0nΔ		20m	0	7	2	2	2	74-60N	DL14ax	
67	DM9006CN		TTL	6	1.6*	.85Δ	5	5	0.0	5.0	4.0nΔ		20m	0	7	2	2	2	74-60N	DL14bt	
68	9006DM		TTL	6	1.7*	.90Δ	4	4	0.0	5.0	7.0n		10m†	400m	5	2	2	2	74-60N	DL14ad	
69	9006FM		TTL	6	1.7*	.90Δ	4	4	0.0	5.0	7.0n		10m†	400m	5	2	2	2	G06-98a	FP29b	
70	9006DC		TTL	6	1.8*	.85Δ	4	4	0.0	5.0	7.0n		12m†	400m	0	7	2	2	74-60N	DL14ad	
71	DM54L54W #mil		TTL	6	2.0	0.7	10	1	0	8.0	90n		0.4	5	2	1	1	1	54L55	FP97c	
72	DM54L55W #mil		TTL	6	2.0	0.7	8	2	0	8.0	90n		0.4	5	2	1	1	1	54L55	FP97c	
73	54H60FM		TTL	6	2.0*	.80Δ	4	4	0.0	5.0			17m	1.0	5	2	2	2	54-60W	FP21h	
74	54H61DM		TTL	6	2.0*	.80Δ	3	3	0.0	5.0			80m	1.0	5	2	2	2	74H61N	TO116	
75	54H61FM		TTL	6	2.0*	.80Δ	3	3	0.0	5.0			80m	1.0	5	2	2	2	54H61W	FP21h	
76	54H62FM		TTL	6	2.0*	.80Δ	7	7	0.0	5.0			45m	1.0	5	2	2	2	54H62W		

5. GATES

IN ORDER OF:(1)TECHNOLOGY(2)TYPE(3)LOGIC(4)LOGIC(5)TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN IN		POWER SUPPLY SPAN		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS	
					3 MIN. '1' (V)	4 MAX. '0' (V)	IN	OUT MAX.	NEG. (V)	POS (V)		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE
1	N7453N		TTL	6	2.0*	.80Δ	10	10	0.0	5.0	22nΔ			47m	0 7	1	74-53N	DL14br	
2	N7460F		TTL	6	2.0*	.80Δ	5	30	0.0	5.0	30nΔ			20m	0 7	2	74-60N	DL14bh	
3	N7460N		TTL	6	2.0*	.80Δ	5		0.0	5.0				20m	0 7	2	74-60N	DL14br	
4	S54H50F		TTL	6	2.0*	.80Δ	6	10	0.0	5.0	6.8n			120m	5 C	2	74-50N	DL14bh	
5	S54H50W		TTL	6	2.0*	.80Δ	6	10	0.0	5.0	6.8n			120m	5 C	2	54-50W	FP39e	
6	S54H52F		TTL	6	2.0*	.80Δ	10	10	0.0	5.0	10n			155m	5 C	1	74H52N	DL14bh	
7	S54H52W		TTL	6	2.0*	.80Δ	10	10	0.0	5.0	10n			155m	5 C	1	54H52W	FP39e	
8	S54H53F		TTL	6	2.0*	.80Δ	11	10	0.0	5.0	7.0n			70m	5 C	1	74H53N	DL14bh	
9	S54H53W		TTL	6	2.0*	.80Δ	11	10	0.0	5.0	7.0n			70m	5 C	1	54H53W	FP39e	
10	S54H55F		TTL	6	2.0*	.80Δ	10	10	0.0	5.0	7.0n			60m	5 C	1	74H55N	DL14bh	
11	S54H60F		TTL	6	2.0*	.80Δ	5		0.0	5.0				22m	5 C	2	74-60N	DL14bh	
12	S54H60W		TTL	6	2.0*	.80Δ	5		0.0	5.0				22m	5 C	2	54-60W	FP39e	
13	S54H61F		TTL	6	2.0*	.80Δ	3		0.0	5.0				80m	5 C	3	74H61N	DL14bh	
14	S54H61W		TTL	6	2.0*	.80Δ	3		0.0	5.0				80m	5 C	3	54H61W	FP39e	
15	S54H62F		TTL	6	2.0*	.80Δ	11		0.0	5.0				45m	5 C	1	74H62N	DL14bh	
16	S54H62W		TTL	6	2.0*	.80Δ	11		0.0	5.0				45m	5 C	1	54H62W	FP39e	
17	S5450F		TTL	6	2.0*	.80Δ	6	10	0.0	5.0	22nΔ			70m	1.0 †	5 C	2	74-50N	DL14bh
18	S5450W		TTL	6	2.0*	.80Δ	6	10	0.0	5.0	22nΔ			70m	1.0 †	5 C	2	54-50W	FP39e
19	S5453F		TTL	6	2.0*	.80Δ	10	10	0.0	5.0	22nΔ			47m	1.0 †	5 C	1	74-53	DL14bh
20	S5453W		TTL	6	2.0*	.80Δ	10	10	0.0	5.0	22nΔ			47m	1.0 †	5 C	1	54H53W	FP39e
21	S5460F		TTL	6	2.0*	.80Δ	5		0.0	5.0	30nΔ			20m	1.0 †	5 C	2	74-60N	DL14bh
22	S5460W		TTL	6	2.0*	.80Δ	5		0.0	5.0	30nΔ			20m	1.0 †	5 C	2	54-60W	FP39e
23#	SFC460E		TTL	6	2.0*	.80Δ	4	10	0.0	7.0	15n			4.0m	400m*	0 7	2	G06-56a	TO116
24#	SFC460EM		TTL	6	2.0*	.80	4	10	0.0	5.0	30nΔ			20m†	1.0	5 C	2	54-60	TO116
25#	SFC460ET		TTL	6	2.0*	.80	4	10	0.0	5.0	30nΔ			20m†	1.0	2 8	2	74-60N	TO116
26#	SFC460PM		TTL	6	2.0*	.80Δ	4	10	0	7				20m†	400m	5 C	2	54-60W	ZBIJ
27	SN54H60J		TTL	6	2.0*	.80Δ	4		0.0	5.0				17m	1.0	5 C	2	74-60N	DL14af
28	SN54H60W		TTL	6	2.0*	.80Δ	4		0.0	5.0				17m	1.0	5 C	2	54-60W	MO004AA
29	SN54H61J		TTL	6	2.0*	.80Δ	3		0.0	5.0				80m	1.0	5 C	3	74H61	DL14af
30	SN54H61W		TTL	6	2.0*	.80Δ	3		0.0	5.0				80m	1.0	5 C	3	54H61W	MO004AA
31	SN54H62J		TTL	6	2.0*	.80Δ	10		0.0	5.0				45m	1.0	5 C	1	74H62N	DL14af
32	SN54H62W		TTL	6	2.0*	.80Δ	10		0.0	5.0				45m	1.0	5 C	1	54H62W	MO004AA
33	SN74H60J		TTL	6	2.0*	.80Δ	4		0.0	5.0				17m	1.0	0 7	2	74-60N	DL14af
34	SN74H60N		TTL	6	2.0*	.80Δ	4		0.0	5.0				17m	1.0	0 7	2	74-60N	DL14r
35	SN74H61J		TTL	6	2.0*	.80Δ	3		0.0	5.0				80m	1.0	0 7	3	74H61N	DL14af
36	SN74H61N		TTL	6	2.0*	.80Δ	3		0.0	5.0				80m	1.0	0 7	3	74H61N	DL14r
37	SN74H62J		TTL	6	2.0*	.80Δ	10		0.0	5.0				45m	1.0	0 7	1	74H62N	DL14af
38	SN74H62N		TTL	6	2.0*	.80Δ	10		0.0	5.0				45m	1.0	0 7	1	74H62N	DL14r
39	SN5460J		TTL	6	2.0*	.80Δ	4	10	0.0	5.0				20m	1.0	5 C	2	74-60N	DL14af
40	SN5460W		TTL	6	2.0*	.80Δ	4	10	0.0	5.0				20m	1.0	5 C	2	54-60W	MO004AA
41	SN7460J		TTL	6	2.0*	.80Δ	4	10	0.0	5.0				20m	1.0	0 7	2	74-60N	DL14af
42	SN7460N		TTL	6	2.0*	.80Δ	4	10	0.0	5.0				20m	1.0	0 7	2	74-60N	DL14r
43	RG150CJ		TTL	6	3.4	.20	10		0.0	5.0	4.0n			20m†	1.1	5 C	4		FP52j
44	RG150CK		TTL	6	3.4	.20	10		0.0	5.0	4.0n			20m†	1.1	5 C	4		FP52k
45	RG150DC		TTL	6	3.4	.20	10		0.0	5.0	4.0n			20m†	1.1	5 C	4		DL14be
46	RG151CJ		TTL	6	3.4	.20	10		0.0	5.0	4.0n			20m†	1.1	5 C	4		FP52j
47	RG151CK		TTL	6	3.4	.20	10		0.0	5.0	4.0n			20m†	1.1	5 C	4		FP52k
48	RG151DC		TTL	6	3.4	.20	10		0.0	5.0	4.0n			20m†	1.1	5 C	4		DL14be
49	RG152CJ		TTL	6	3.4	.20	10		0.0	5.0	4.0n			20m†	1.1	0 7	4		FP52j
50	RG152CK		TTL	6	3.4	.20	10		0.0	5.0	4.0n			20m†	1.1	0 7	4		FP52k
51	RG152DC		TTL	6	3.4	.20	10		0.0	5.0	4.0n			20m†	1.1	0 7	4		DL14be
52	RG153CJ		TTL	6	3.4	.20	10		0.0	5.0	4.0n			20m†	1.1	0 7	4		FP52j
53	RG153CK		TTL	6	3.4	.20	10		0.0	5.0	4.0n			20m†	1.1	0 7	4		FP52k
54	RG153DC		TTL	6	3.4	.20	10		0.0	5.0	4.0n			20m†	1.1	0 7	4		DL14be
55	RG170CJ		TTL	6	3.4	.20	4		0.0	5.0	1.0n			10m†	1.1	5 C	2	G06-56	FP52j
56	RG170CK		TTL	6	3.4	.20	4		0.0	5.0	1.0n			10m†	1.1	5 C	2	G06-56	FP52k
57	RG170DC		TTL	6	3.4	.20	4		0.0	5.0	1.0n			10m†	1.1	5 C	2	G06-56	DL14be
58	RG171CJ		TTL	6	3.4	.20	4		0.0	5.0	1.0n			10m†	1.1	5 C	2	G06-56	FP52j
59	RG171CK		TTL	6	3.4	.20	4		0.0	5.0	1.0n			10m†	1.1	5 C	2	G06-56	FP52k
60	RG171DC		TTL	6	3.4	.20	4		0.0	5.0	1.0n			10m†	1.1	5 C	2	G06-56	DL14be
61	RG172CJ		TTL	6	3.4	.20	4		0.0	5.0	1.0n			10m†	1.1	0 7	2	G06-56	FP52j
62	RG172CK		TTL	6	3.4	.20	4		0.0	5.0	1.0n			10m†	1.1	0 7	2	G06-56	FP52k
63	RG172DC		TTL	6	3.4	.20	4		0.0	5.0	1.0n			10m†	1.1	0 7	2	G06-56	DL14be
64	RG173CJ		TTL	6	3.4	.20	4		0.0	5.0	1.0n			10m†	1.1	0 7	2	G06-56	FP52j
65	RG173CK		TTL	6	3.4	.20	4		0.0	5.0	1.0n			10m†	1.1	0 7	2	G06-56	FP52k
66	RG173DC		TTL	6	3.4	.20	4		0.0	5.0	1.0n			10m†	1.1	0 7	2	G06-56	DL14be
67	RG290CJ		TTL	6	3.4	.20	5		0.0	5.0	7.0n			30m†	1.0	5 C	2		FP52j
68	RG290CK		TTL	6	3.4	.20	5		0.0	5.0	7.0n			30m†	1.0	5 C	2		FP52k
69	RG290DC		TTL	6	3.4	.20	5		0.0	5.0	7.0n			30m†	1.0	5 C	2		DL14be
70	RG291CJ		TTL	6	3.4	.20	5		0.0	5.0	7.0n			30m†	1.0	5 C	2		FP52j
71	RG291CK		TTL	6	3.4	.20	5		0.0	5.0	7.0n			30m†	1.0	5 C	2		FP52k
72	RG291DC		TTL	6	3.4	.20	5		0.0	5.0	7.0n			30m†	1.0	5 C	2		DL14be
73	RG292CJ		TTL	6	3.4	.20	5		0.0	5.0	7.0n			30m†	1.0	0 7	2		FP52j
74	RG292CK		TTL	6	3.4	.20	5		0.0	5.0	7.0n			30m†	1.0	0 7	2		FP52k
75	RG292DC		TTL	6	3.4	.20	5		0.0	5.0	7.0n			30m†	1.0	0 7	2		DL14be
76	RG293CJ		TTL	6	3.4	.20	5		0.0	5.0	7.0n			30m†	1.0	0 7	2		FP52j
77	RG293CK		TTL	6	3.4	.20	5		0.0	5.0	7.0n			30m†	1.0	0 7	2		FP52k
78	RG293DC		TTL	6	3.4	.20	5		0.0	5.0	7.0n			30m†	1.0	0 7	2		DL14be
79#	ZN5460E		TTL	6	3.5	.20	5	10	0.0	5.0	29n			10m	1.0	5 C	2		DL14m
80#	ZN5460F		TTL	6	3.5	.20	5	10	0.0	5.0	29n			10m	1.0	5 C	2		TO86
81#	ZN7460E		TTL	6	3.5	.20	5	10	0.0	5.0	29n			10m	1.0	5 C	2		DL14m
82#	ZN7460F		TTL	6	3.5	.20	5	10	0.0	5.0	29n			10m	1.0	5 C	2		TO86
83	N8242F		TTL	7	∅	.40ΔC	2	15	0.0	5.0	28nΔ			237m		0 7	4	G0	

5. GATES

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC* (4) LOGIC* (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE OF GATE	LOGIC LEVEL		FAN IN	OUT MAX.	POWER SUPPLY SPAN	PROPAGATION DELAY (S)	RISE TIME (S)	FALL TIME (S)	MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE	CKTS PER MOD	DRAWINGS			
					3 | MIN. '1'	4 | MAX. '0'											NEG. (V)	POS. (V)	LOGIC OR BLOCK	OUTLINE
					(V)	(V)														
1	S54LS266W		TTL	7	2.0*	.70Δ	2		0.0	5.0	30nΔ		65m			4	54LS266W	FP39e		
2	SN54LS266J		TTL	7	2.0*	.70Δ	2		0.0	5.0	30nΔ		40m%			4	74LS266N	DL14af		
3	SN54LS266W		TTL	7	2.0*	.70Δ	2	10d	0.0	5.0	30nΔ		40m%			4	54LS266W	MO004AA		
4	74LS266DC		TTL	7	2.0*	.80Δ	2		0.0	5.0	23nΔ		65m%	300m		4	74LS266N	TO116		
5	74LS266PC		TTL	7	2.0*	.80Δ	2	5	0.0	5.0	23nΔ		65m%	300m		4	74LS266N	TO116		
6	9386DC		TTL	7	2.0*	.80Δ	2		0.0	5.0	25nΔ		170mΔ			4	K07-24	DL14g		
7	9386DM		TTL	7	2.0*	.80Δ	2		0.0	5.0	25nΔ		170mΔ			4	K07-24	DL14g		
8	9386FM		TTL	7	2.0*	.80Δ	2		0.0	5.0	25nΔ		170mΔ			4	K07-24	FP115		
9	9386PC		TTL	7	2.0*	.80Δ	2		0.0	5.0	25nΔ		170mΔ			4	K07-24	DL14ce		
10#	HD74LS266		TTL	7	2.0*	.80Δ	2		0.0	5.0	30nΔ		400m	300m		4	G07-5	DL14cz		
11#	HD74LS266P		TTL	7	2.0*	.80Δ	2		0.0	5.0	18n		71m%	0.4		4	G07-5	DL14cz		
12#	MB74LS266		TTL	7	2.0*	.80Δ	2	20	0.0	5.0	30nΔ		30mΔ	1.0 *		4	74LS266N	DL14ai		
13#	MB74LS266M		TTL	7	2.0*	.80Δ	2	20	0.0	5.0	30nΔ		30mΔ	1.0 *		4	74LS266N	DL14bn		
14	N74LS266F		TTL	7	2.0*	.80Δ	2	20	0.0	5.0	30nΔ		65m			4	74LS266N	DL14br		
15	N74LS266N		TTL	7	2.0*	.80Δ	2	20	0.0	5.0	30nΔ		65m			4	74LS266N	DL14br		
16	SN74LS266J		TTL	7	2.0*	.80Δ	2	22d	0.0	5.0	30nΔ		40m%			4	74LS266N	DL14af		
17	SN74LS266N		TTL	7	2.0*	.80Δ	2	22d	0.0	5.0	30nΔ		40m%			4	74LS266N	DL14r		
18	MC3122F		TTL	7	2.4*	.40ΔC	2	8	0.0	5.0	14n		85mΔ			4	G05-104	TO86		
19	MC3122L		TTL	7	2.4*	.40ΔC	2	8	0.0	5.0	14n		85mΔ			4	4H89P	TO116		
20	MC3022L, P%		TTL	7	2.5*	.40ΔC	2	8	0.0	5.0	14n		85mΔ			4	G05-104	TO116		
21#	M74LS04F		TTL	8					0.0	5.0	5.0n		12m			6	74-04N	DL14ay		
22#	M74LS05P		TTL	8					0.0	5.0	12n					6	74-05N	DL14ay		
23#	K155LN2		TTL	8		0.4	6	10	0.0	5.0						6				
24#	HD74LS14		TTL	8	1.4*	1.0Δ	6		0.0	5.0	22nΔ		400m			6		DL14cz		
25#	HD74LS14P		TTL	8	1.4*	1.0Δ	6		0.0	5.0	22nΔ		400m			6		DL14cz		
26	DM9016CJ		TTL	8	1.6	.85	6	6		5.0	45n			0.4		6	G08-05	DL14g		
27	DM9016CN		TTL	8	1.6	.85	6	6		5.0	45n			0.4		6	G08-05	DL14r		
28	S54LS04F		TTL	8	2.0	0.7	6		0.0	5.0	15n		15n	6n		6	74-04N	DL14bh		
29	S54LS04W		TTL	8	2.0	0.7	6		0.0	5.0	15n		15n	6n		6	54S04W	FP39e		
30	S4F04DM		TTL	8	2.0*	.80			0.0	5.0	2.6n					6	74-04N	TO116		
31	S4F04FM		TTL	8	2.0*	.80			0.0	5.0	2.6n					6	G08-9	TO86		
32	74F04DC		TTL	8	2.0*	.80			0.0	5.0	2.6n					6	74-04N	TO116		
33	74F04PC		TTL	8	2.0*	.80			0.0	5.0	2.6n					6	74-04N	TO116		
34#	HD74LS04		TTL	8	2.0*	.80Δ	6		0.0	5.0	15nΔ		400m	300m		6		DL14cz		
35#	HD74LS04P		TTL	8	2.0*	.80Δ	6		0.0	5.0	15nΔ		400m	300m		6		DL14cz		
36#	HD74LS05		TTL	8	2.0*	.80Δ	6		0.0	5.0	30nΔ		400m	300m		6		DL14cz		
37#	HD74LS05P		TTL	8	2.0*	.80Δ	6		0.0	5.0	30nΔ		400m	300m		6		DL14cz		
38#	M74ALS04P		TTL	8	2.0*	0.8			0.0	5.0	11n		21m			6	74-04N	DL14cf		
39#	M74ALS05P		TTL	8	2.0*	0.8			0.0	5.0	54n		21m			6	74-05N	DL14cf		
40#	M74LS366AP		TTL	8	2.0*	.80			0.0	5.0	16n		105m	1.0		6	74-366N	DL16db		
41#	M74LS368AP		TTL	8	2.0*	.80			0.0	5.0	16n		105m	1.0		6	74-368N	DL16db		
42#	N74F04F		TTL	8	2.0	0.8			-0.5	7.0	5.0nΔ					6	74-04	DL14o		
43#	N74F04N		TTL	8	2.0	0.8			0.0	5.0	15n					6	74-04N	DL14n		
44	N74LS04F		TTL	8	2.0	0.8	6		0.0	5.0	9.5n			0.4		6	74-04N	DL14bh		
45#	N74LS04N		TTL	8	2.0	0.8	6		0.0	5.0	17n					6	74-04N	DL14br		
46#	N74LS05F		TTL	8	2.0	0.8	6		0.0	5.0	17n					6	74-05N	DL14bh		
47#	N74LS05N		TTL	8	2.0	0.8	6		0.0	5.0	17n					6	74-05N	DL14br		
48	N74S04F		TTL	8	2.0	0.8	6		0.0	5.0	4.8n	2.5n	2.5n	0.4		6	74-04N	DL14bh		
49#	N74S04N		TTL	8	2.0	0.8	6		0.0	5.0	3.0n	2.5n	2.5n	0.4		6	74-04N	DL14bh		
50#	N74S05F		TTL	8	2.0	0.8	6		0.0	5.0	4.8n	7n	7n			6	74-05N	DL14br		
51#	N74S05N		TTL	8	2.0	0.8	6		0.0	5.0	5.0n	7n	7n			6	74-05N	DL14br		
52	N7404F		TTL	8	2.0	0.8	6		0.0	5.0	18n			0.4		6	74-04N	DL14br		
53#	N7404N		TTL	8	2.0	0.8	6		0.0	5.0	10n					6	74-04N	DL14br		
54#	N7405F		TTL	8	2.0	0.8	6		0.0	5.0	40n					6	74-05N	DL14bh		
55#	N7405N		TTL	8	2.0	0.8	6		0.0	5.0	40n					6	74-05N	DL14br		
56#	N7406N		TTL	8	2.0	0.8	6		0.0	5.0	10n					6	74-06	DL14br		
57#	N7416F		TTL	8	2.0	0.8	6		0.0	5.0	10n					6	74-16	DL14bh		
58#	N7416N		TTL	8	2.0	0.8	6		0.0	5.0	10n					6	74-16	DL14br		
59#	S54F04F		TTL	8	2.0	0.8			-0.5	7.0	5.0nΔ					6	74-04	DL14o		
60#	S54F04W		TTL	8	2.0	0.8			0.5	7.0	7.0nΔ					6	G08-20	FPZ		
61	S54S04F		TTL	8	2.0	0.8	6		0.0	5.0	4.8n	2.5n	2.5n	0.4		6	74-04N	DL14bh		
62	S54S04W		TTL	8	2.0	0.8	6		0.0	5.0	4.8n	2.5n	2.5n	0.4		6	54S04W	FP39e		
63	S5404F		TTL	8	2.0	0.8	6		0.0	5.0	18n	7n	7n	0.4		6	74-04N	DL14bh		
64	S5404W		TTL	8	2.0	0.8	6		0.0	5.0	18n	7n	7n	0.4		6	54-04W	FP39e		
65	SN54ALS04J#mil		TTL	8	2.0	0.8	6	6	0.0	7.0	14n					6	G08-03	DL14c		
66	SN54ALS05J#		TTL	8	2.0	0.8	6	6	0.0	5.0	26n					6	74-05	DL14ci		
67	SN54ALS05J#mil		TTL	8	2.0	0.8	6	6	0.0	7.0	59n					6	G08-03	DL14c		
68	SN54ALS05N		TTL	8	2.0	0.8	6	6	0.0	5.0	26n					6	74-05	DL14dg		
69	SN74ALS05J		TTL	8	2.0	0.8	6	6	0.0	7.0	54n					6	74-05N	DL14c		
70	SN74ALS05J#		TTL	8	2.0	0.8	6	6	0.0	5.0	22n					6	74-05	DL14ci		
71	SN74ALS05N		TTL	8	2.0	0.8	6	6	0.0	7.0	54n					6	74-05N	DL14n		
72	SN74ALS05N#		TTL	8	2.0	0.8	6	6	0.0	5.0	22n					6	74-05	DL14dg		
73#	K155LN1		TTL	8	2.4	0.4	1	10	0.0	7.0		15n	22n			6				
74	SN54LS19J#mil		TTL	8	2.5Δ	.4C	6	6	0.0	5.0	13n					6	54LS19	DL14c		
75	SN54LS19W#mil		TTL	8	2.5Δ	.4C	6	6	0.0	7.0	13n					6	54LS19	FP97a		
76	SN74LS19J		TTL	8	2.5Δ	.4C	6	6	0.0	7.0	13n					6	74LS19	DL14c		
77	SN74LS19N		TTL	8	2.5Δ	.4C	6	6	0.0	7.0	13n					6	74LS19	DL14n		
78#	LC4069UB		TTL	8	2.5	1.5Δ	1		0.0	8.0				300m		4	8	DL14h		
79#	HD74ALS04		TTL	8.0	2.0	0.8			0.0	5.0	4.0n			0.4		6	G08-03	DL14Z		
80#	HD74ALS05		TTL	8.0	2.0	0.8			0.0	5.0	20n			0.4		6	G08-03	DL14Z		
81#	K155LN3		TTL	8.E		0.4	6			5.0		23n	15n		1	6		G		
82#	M74LS365AP		TTL	9	2.0*	.80			0.0	5.0	16n		120m	1.0	2	6	74-365N	DL16db		
83#	M74LS367AP		TTL	9	2.0*	.80			0.0	5.0	16n		120m	1.0	2	6	74-367N	DL16db		
84#	K176LP4			13	8.2	0.3	7	50		9.0	250n			0.9	1	2	G03-296			
85#	K176LP2			4	8.2	0.3	5	50		9.0	250n			0.9	1	4	G05-110			

6. DECODERS

IN ORDER OF (1) TECHNOLOGY (2) DECODES FROM (3) DECODES TO (4) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	DECODES			LOGIC LEVEL		NUMBER OF LINES		POWER SUPPLY SPAN		TRANSITION TIME (S)	RISE TIME (S)	FALL TIME (S)	MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS		
				R	F	T	MIN. (V)	MAX. (V)	IN	OUT	NEG (V)	POS (V)								LOGIC OR BLOCK	OUTLINE	
1	NE5045D			1	1		2.7	0.5C	1	7	0.0	5.0				112m	2	7	1	F01-69		
2	NE5045N			1	1		2.7	0.5C	1	7	0.0	5.0				112m	2	7	1	F01-69		
3	NE5046N			1	1		2.7	0.5	1	2	0.0	5.0				72m	2	7	1	F01-70		
4	BDM1615500			1	1	2					0.0	5.0				1.7	0	7				
5	BDM1616500			1	1	2					0.0	5.0				1.7	0	7				
6	BDM1617500			1	1	2					0.0	5.0				2.0	0	7				
7	BDM1618500			1	1	2					0.0	5.0				2.0	0	7				
8	FCH301			1	1	4	6.0	0.0			6.0	6.0	70n	3.3n	3.3n	250m	1.0	0	7	F01-20	DL16d	
9#	GXB10161			1	1	4			3	8	5.2	0.0	6.0mΔP	3.3n	3.3n			3	8	1	F01-66	DLZ
10#	GXB10162			1	1	4			3	8	5.2	0.0	6.0mΔP	3.3n	3.3n			3	8	1	F01-66	DLZ
11#	DN852			1	1	8					5.0	0.0				135m%		2	7	1	F01-50	DL16af
12#	GXB10172			1	1	8			2	8	5.2	0.0	6.0 ΔP	3.3n	3.3n			3	8	2	F01-67	DLZ
13#	M54402P			1	1	8	2.0*	.80Δ	4	80	0.0	7.0				113m†	1.0 †	0	7	1	F01-20†	DL14d
14#	M53354P			1	1	18	2.0*	.80Δ	6	10	0.0	5.0				170m†		0	7	1	74-154N	DL24e
15#	M53355P			1	1	18	2.0*	.80Δ	6	70	0.0	5.0				125m†		0	7	1	74-155N	DL16u
16#	M53356P			1	1	18	2.0*	.80Δ	6	10	0.0	5.0				125m†		0	7	1	74-156N	DL16u
17#	MB10161			1	1	18	-.96*	1.6ΔC	5	8	5.2	0.0				315m†		3	8	1	F01-66	DL16ak
18#	MB10161M			1	1	18	-.96*	1.6ΔC	5	8	5.2	0.0				315m†		3	8	1	F01-66	DL16ap
19#	MB10162			1	1	18	-.96*	1.6ΔC	5	8	5.2	0.0				315m†		3	8	1	F01-66a	DL16ak
20#	MB10162M			1	1	18	-.96*	1.6ΔC	5	8	5.2	0.0				315m†		3	8	1	F01-66a	DL16ap
21#	DM9301W			2	4	2	2.0*	.80Δ	4	10	0.0	5.0	30nΔ			125m†		5	C	1	F01-20b	FP88a
22#	M53241P			2	2	4	2.0*	.80Δ	4	10	0.0	7.0				105m†	1.0 †	0	7	1	74-41N	DL16u
23#	M53242P			2	2	4	2.0*	.80Δ	4	10	0.0	7.0				140m†	1.0 †	0	7	1	74-42N	DL16u
24#	MB442			2	2	4	2.0*	.80Δ	4	10	0.0	5.0				140m†		0	7	1	74-42N	DL16ak
25#	MB442M			2	2	4	2.0*	.80Δ	4	10	0.0	5.0				140m†		0	7	1	74-42N	DL16ap
26#	MB443			2	2	4	2.0*	.80Δ	4	10	0.0	5.0				240m†		0	7	1	74-45N	DL16ak
27#	MB443M			2	2	4	2.0*	.80Δ	4	10	0.0	5.0				240m†		0	7	1	74-45N	DL16ap
28	5900			2	18	2	2.0*	.80Δ			0.0	5.0				460m		0	7	1		MD14C
29#	M54406P			2	18	2	2.0*	.80Δ	7	12	0.0	5.0	100nΔ			265m†	1.0 †	0	7	1	74-406	DL16u
30#	M53243P			5	4	2	2.0*	.80Δ	4	10	0.0	7.0	30n			140m†	1.0 †	0	7	1	74-43N	DL16u
31#	M53244P			6	4	2	2.0*	.80Δ	4	10	0.0	7.0	30n			140m†	1.0 †	0	7	1	74-44N	DL16u
32	883/4428B		CMS	1	1	8	8.2	6.7	4	8	0.0	15	80n			300m		5	C	1	44-28	MO001AA
33	CDP1853CD		CMS	1	1	8	3.5*	1.5Δ	3	8	0.0	6.5	275nPA	20n	20n			5	C	1	F01-65	DL16dc
34	CDP1853CE		CMS	1	1	8	3.5*	1.5Δ	3	8	0.0	6.5	275nPA	20n	20n			4	C	1	F01-65	MO001AC
35	CDP1853D		CMS	1	1	8	3.5*	1.5Δ	3	8	0.0	10	275nPA	20n	20n			5	C	1	F01-65	DL16dc
36	CDP1853E		CMS	1	1	8	3.5*	1.5Δ	3	8	0.0	10	275nPA	20n	20n			4	C	1	F01-65	MO001AC
37#	HEF4028P#2		CMS	1	1	8	7.0*	3.0Δ	3	8	0.0	10	40n			600u%	4.5 †	4	8	1	40-28B	DL16bw
38	SCL4428B		CMS	1	1	8	9.95*	.05ΔC	4	10	0.0	10	100nΔ			100u%	3.0	5	C	1	44-28B	MO001AA
39	CD4514BC		CMS	1V	1	18	7.0	3.0	4	16	0	15	50nP	20n	20n	500m	4.5 †	4	8	1	45-14B	DLZ
40	CD4514BD		CMS	1V	1	18	9.95*	.05ΔC	6	16	0.0	10	100nΔ			20u%	2.0	5	C	1	45-14B	MO015AG
41	CD4514BE		CMS	1V	1	18	9.95*	.05ΔC	6	16	0.0	10	100nΔ			20u%	2.0	4	C	1	45-14B	MO015AA
42	CD4514BF		CMS	1	1	18	9.95*	.05ΔC	6	16	0.0	10	100nΔ			20u%	2.0	5	C	1	45-14B	MO015AG
43	CD4514BH		CMS	1	1	18	9.95*	.05ΔC	6	16	0.0	10	100nΔ			20u%	2.0	5	C	1	F01-46	CH128
44	CD4514BM		CMS	1V	1	18	7.0	3.0	4	16	0	15	50nP	20n	20n	500m	4.5 †	4	8	1	45-14B	DLZ
45	CD4515BC		CMS	1V	1	18	7.0	3.0	4	16	0	15	50nP	20n	20n	500m	4.5 †	4	8	1	45-15B	DLZ
46	CD4515BD		CMS	1	1	18	9.95*	.05ΔC	6	16	0.0	10	100nΔ			20u%	2.0	5	C	1	45-15B	MO015AG
47	CD4515BE		CMS	1	1	18	9.95*	.05ΔC	6	16	0.0	10	100nΔ			20u%	2.0	4	C	1	45-15B	MO015AA
48	CD4515BF		CMS	1	1	18	.05Δ	9.9*	6	16	0.0	10	100nΔ			20u%	2.0	5	C	1	45-15B	MO015AG
49	CD4515BH		CMS	1	1	18	.05Δ	9.9*	6	16	0.0	10	100nΔ			20u%	2.0	5	C	1	F01-46	CH128
50	CD4515BM		CMS	1V	1	18	7.0	3.0	4	16	0	15	50nP	20n	20n	500m	4.5 †	4	8	1	45-15B	DLZ
51	CD4555BD		CMS	1	1	18	9.95*	.05ΔC	2	4	0.0	10	100nΔ			200m	2.0	5	C	2	F01-28b	MO001AE
52	CD4555BF		CMS	1	1	18	9.95*	.05ΔC	2	4	0.0	10	100nΔ			200m	2.0	5	C	2	F01-28b	MO001AC
53	CD4556BD		CMS	1	1	18	9.95*	.05ΔC	2	4	0.0	10	100nΔ			200m	2.0	5	C	2	74S139N	MO001AC
54	CD4556BE		CMS	1	1	18	9.95*	.05ΔC	2	4	0.0	10	100nΔ			200m	2.0	4	C	2	74S139N	MO001AC
55	CD4556BF		CMS	1	1	18	9.95*	.05ΔC	2	4	0.0	10	100nΔ			200m	2.0	5	C	2	74S139N	MO001AC
56	CDP1873CD		CMS	1	1	18	3.5*	1.5Δ	2	4	0.0	5.0	62nP					5	C	1		DL16dc
57	CDP1873CE		CMS	1	1	18	3.5*	1.5Δ	2	4	0.0	5.0	62nP					4	C	1		MO001AC
58#	HCC4514BD		CMS	1V	1	18	10	0.0C	6	16	0.0	10	200nΔ			200m	4.5 †	5	C	1	45-14B	DL24aj
59#	HCC4515BD		CMS	1V	1	18	10	0.0C	6	16	0.0	10	200nΔ			200m	4.5 †	5	C	1	45-15B	DL24aj
60#	HCC4555BD		CMS	1	1	18	10	0.0	2	4	0.0	10	200nΔ			200m	4.5 †	5	C	2	45-55B	MO001AE
61#	HCC4555BF		CMS	1	1	18	10	0.0	2	4	0.0	10	200nΔ			200m	4.5 †	5	C	2	45-55B	MO001AC
62#	HCC4555BK		CMS	1	1	18	10	0.0	2	4	0.0	10	200nΔ			200m	4.5 †	5	C	2	45-55B	MO004AG
63#	HCC4556BD		CMS	1	1	18	15*	.05ΔC	2	4	0.0	15	200nΔ			200m	4.5 †	5	C	2	F01-28a	MO001AE
64#	HCC4556BF		CMS	1	1	18	15*	.05ΔC	2	4	0.0	15	200nΔ			200m	4.5 †	5	C			

6. DECODERS

IN ORDER OF (1) TECHNOLOGY (2) DECODES FROM (3) DECODES TO (4) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	DECODES			LOGIC LEVEL		NUMBER OF LINES		POWER SUPPLY SPAN		TRANSITION TIME (S)	RISE TIME (S)	FALL TIME (S)	MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	PKTS PER MOD	DRAWINGS	
				2	F	3	MIN. '1' (V)	MAX. '0' (V)	IN	OUT	NEG (V)	POS (V)								LOGIC OR BLOCK	OUTLINE
				R	O	M															
1	CD4028BF		CMS	2	4	11*	4.0Δ	4	10	0.0	15	80nΔ			500m	4.0 *	5	1	40-28B	MO001AC	
2	CD4028BMJ		CMS	2	4	11*	4.0Δ	4	10	0.0	15	110nΔ			300uΔ	6.7 +	5	1	F01-20j	DL16au	
3	CD4028BMW		CMS	2	4	11*	4.0Δ	4	10	0.0	15	110nΔ			300uΔ	6.7 +	5	1	F01-20j	FP88c	
4	CM4028AD		CMS	2	4	10	0.0C	4	10	0.0	10	75nΔ			200m	4.5 +	5	1	40-28B	DL16az	
5	CM4028AE		CMS	2	4	10	0.0C	4	10	0.0	10	150nΔ			200m	4.5 +	4	8	40-28B	DL16az	
6#	HBC4028AD		CMS	2	4	10	0.0C	4	50	0.0	10	75nΔ			100uΔ	4.5 +	5	1	40-28B	MO001AE	
7#	HBC4028AF		CMS	2	4	10	0.0C	4	50	0.0	10	75nΔ			100uΔ	4.5 +	5	1	40-28B	MO001AE	
8#	HBC4028AK		CMS	2	4	10	0.0C	4	50	0.0	10	75nΔ			100uΔ	4.5 +	5	1	40-28B	MO004AG	
9#	HBF4028AE		CMS	2	4	10	0.0C	4	50	0.0	10	150nΔ			1.0mΔ	4.5 +	4	8	40-28B	MO001AC	
10#	HBF4028AF		CMS	2	4	10	0.0C	4	50	0.0	10	150nΔ			1.0mΔ	4.5 +	4	8	40-28B	MO001AE	
11#	HCC4028BD		CMS	2	4	11*	4.0Δ	4	10	0.0	15	80nΔ			500m	4.0 *	5	1	40-28B	DL16cm	
12#	HCC4028BF		CMS	2	4	11*	4.0Δ	4	10	0.0	15	80nΔ			500m	4.0 *	5	1	40-28B	DL16aq	
13#	HCC4028BK		CMS	2	4	11*	4.0Δ	4	10	0.0	15	80nΔ			500m	4.0 *	5	1	40-28B	FP131	
14#	HCF4028BE		CMS	2	4	11*	4.0Δ	4	10	0.0	15	80nΔ			500m	4.0 *	4	8	40-28B	DL16bj	
15#	HCF4028BF		CMS	2	4	11*	4.0Δ	4	10	0.0	15	80nΔ			500m	4.0 *	4	8	40-28B	DL16aq	
16#	HD14028B		CMS	2	4	11*	4.0Δ	4	10	0.0	15	90nP	65n	50n	300m	3.9	4	8	40-28B	DL16bc	
17#	HEF4028B		CMS	2	4	9.95*	0.5ΔC	4	10	0.0	15	70nPA			400m	6.7 +	4	8	40-28B	DL16cb	
18#	HEF4028B		CMS	2	4	9.95*	0.5ΔC	4	10	0.0	15	145nPA			100uΔ	4.5 +	4	8	40-28B	DL16cb	
19#	HEF4028BDF		CMS	2	4	11.0*	4.0Δ	4	10	0.0	15	70nPA			400m	6.7 +	4	8	F01-20j	DL16at	
20#	HEF4028BPN		CMS	2	4	11.0*	4.0Δ	4	10	0.0	15	70nPA			400m	6.7 +	4	8	F01-20j	DL16cc	
21#	HEF4028BTD		CMS	2	4	11.0*	4.0Δ	4	10	0.0	15	40nΔ			200mΔ	6.7 +	4	8	F01-20j	FL149	
22#	HEF4028P#1		CMS	2	4	7.0*	3.0Δ	4	10	0.0	10	40n			600uΔ	4.5 +	4	8	40-28B	DL16bw	
23#	LC4028B		CMS	2	4	3.5*	1.5Δ	4	10	0.5	20	90nP	50n	40n	300m	4.0 *	4	8	F01-20j	DL16du	
24#	M4028BP		CMS	2	4	11.0*	4.0Δ	4	10	0.0	18	200nPA	160n	80n	0.5	4.0 *	4	8	F02-121	DL16db	
25#	MB84028B		CMS	2	4	10.5*	4.5Δ	4	10	0.0	15	130nP	80n	80n	1.2mΔ	4.5 *	4	8	F02-121	DL16as	
26#	MB84028BM		CMS	2	4	10.5*	4.5Δ	4	10	0.0	15	130nP	80n	80n	1.2mΔ	4.5 *	4	8	F02-121	DL16cu	
27	MC54HC42(JA)		CMS	2	4	3.2	1.1	4	10	0.5	7.0	500m	500m	500mΔ	1.1	0.6	3	8	F02-123	DL16jz	
28	MC74HC42(JA)		CMS	2	4	3.2	1.1	4	10	0.5	7.0	500m	500m	500mΔ	1.1	0.6	3	8	F02-123	DL16jz	
29	MC74HC42N(A)		CMS	2	4	3.2	1.1	4	10	0.5	7.0	500m	500m	500mΔ	1.1	0.6	3	8	F02-123	DL16jz	
30	MC14028BCL		CMS	2	4	11*	4.0Δ	4	10	0.0	15	130n	130n	80n	2.5 *	4	8	40-28B	DL16am		
31	MC14028BCP		CMS	2	4	11*	4.0Δ	4	10	0.0	15	130n	130n	80n	2.5 *	4	8	40-28B	DL16am		
32	MM54C42D		CMS	2	4	3.5*	1.5Δ	4	10	0.0	5.0	250nP			500m	450mΔ	5	1	40-28B	DL16bo	
33	MM74C42N		CMS	2	4	3.5*	1.5Δ	4	10	0.0	5.0	250nP			500m	450mΔ	5	1	74-42N	DL16bz	
34#	MSM54RS		CMS	2	4	3.6*	2.0Δ	4	40	0.0	7.0	300nP			500m	450mΔ	0	7	74-42N	DL16bu	
35#	MSM4028		CMS	2	4	7.2*	2.0Δ	4	10	0.0	10	290nPA	120n	120n	1.4mΔ	2.0 *	2	7	F02-122	DL16cQ	
36#	MSM4028RS		CMS	2	4	3.6*	1.0Δ	4	40	0.3	16	200n	200n	200n	0.6	0.6	3	8	40-28B	DL16cQ	
37	SCI4028B		CMS	2	4	9.95*	0.5ΔC	4	10	0.0	10	100nΔ			100uΔ	3.0	5	1	40-28B	DL16ar	
38#	TC40H042P		CMS	2	4	4.0*	1.0Δ	4	10	0.0	5.0	54nP	35n	30n	300m	1.0	4	8	40H042	DL16cr	
39#	TC4028BP		CMS	2	4	14.9*	0.5ΔC	3	10	0.0	15	200nΔ	160n	80n	300m	4.0	4	8	40-28B	DL16cr	
40	MM54C48D		CMS	18	3.5*	1.5Δ	4	7	0.0	5.0	500m	500m	500m	450mΔ	5	1	74-48	DL16bz			
41	MM74C48N		CMS	18	3.5*	1.5Δ	4	7	0.0	5.0	500m	500m	500m	450mΔ	5	1	74-48N	DL16bu			
42#	TC40H138P		CMS	18	4.0*	1.0Δ	3	8	0.0	5.0	60nP	35n	30n	300m	1.0	4	8	40H138	DL16cr		
43#	TC40H155P		CMS	18	4.0*	1.0Δ	3	8	0.0	5.0	48nP	35n	30n	300m	1.0	4	8	40H155	DL16cr		
44#	HD14511B		CMS	2	20	3.5	1.5	25	0.0	15	640nP	80n	250n	300m	1.0	4	8	2	DL16cr		
45#	HD14543B		CMS	2V	20	3.5	1.5	9.4	0.0	15	605nP	400n	250n	300m	1.0	4	8	1*	DL16cr		
46#	HD14558B		CMS	2	20	3.5	1.5	9.4	0.0	15	580nP	400n	250n	300m	1.0	4	8	1*	DL16cr		
47	8837/4514B		CMS	2	24	8.2	6.7	4	16	0.0	15	80n			300m	5	1	45-14	MO015AA		
48	8837/4515B		CMS	2	24	8.2	6.7	4	16	0.0	15	80n			300m	5	1	45-15	MO015AA		
49#	MSM4514RS		CMS	18	18	3.6*	1.0Δ	40	0.3	16	1.0u			200m	0.6	4	8	1	F18-4	DL24j	
50#	MSM4515RS		CMS	18	18	3.6*	1.0Δ	40	0.3	16	1.0u			200m	0.6	4	8	1	*	DL24j	
51#	MC74HC139N(A)		CMS	19	18	3.2	1.1	2	4	0.5	7.0	500m	500m	500mΔ	1.1	0.6	3	8	F19-3	DL16z	
52	MM54C45D		CMS	20	2	3.3*	1.5Δ	10	6	0.0	5.0	1.0uΔ			3.8mΔ	1.1	5	1	DLZ		
53	MM74C915N		CMS	20	2	3.3*	1.5Δ	10	6	0.0	5.0	1.0uΔ			3.8mΔ	1.1	5	1	DLZ		
54	MC54HC138(A)		CMS	23	18	3.2	1.1	3	8	0.5	7.0	500m	500m	500mΔ	1.1	0.6	3	8	F23-3	DL16z	
55	MC74HC138(A)		CMS	23	18	3.2	1.1	3	8	0.5	7.0	500m	500m	500mΔ	1.1	0.6	3	8	F23-3	DL16z	
56	MC74HC138N(A)		CMS	23	18	3.2	1.1	3	8	0.5	7.0	500m	500m	500mΔ	1.1	0.6	3	8	F23-3	DL16z	
57#	FZL101		DTL	2	4	8.0*	5.0Δ	4	10	0.0	12	110nP			300m	5.0 +	0	7	74-45N	DL16k	
58#	FZL105		DTL	2	4	8.0*	5.0Δ	4	10	0.0	12	110nP			300m	5.0 +	2	8	74-42N	DL16k	
59#	H158D1		DTL	2	4	8.0*	6.0Δ	4	10	0.0	20				600m	5.0 +	0	7	74-42N	DL16z	
60#	H158D2		DTL	2	4	8.0*	6.0Δ	4	10	0.0	16				600m	5.0 +	5	1	74-42N	DL16z	
61#	H158D6		DTL	2	4	8.0*	6.0Δ	4	10	0.0	20				600m	5.0 +	4	8	74-42N	DL16z	
62#	H258B1		DTL	2	4	8.0*	6.0Δ	4	10	0.0	16				600m	5.0 +	0	7	74-42N	DL16z	
63	MC676L		DTL	2	4	1.5ΔC		4	10	0.0	15	500n	20nΔ	20nΔ	380mΔ	5.0 +	3	7	F02-55	DL16ai	
64	MC676P		DTL	2	4	1.5ΔC		4	10	0.0	15	500n	20nΔ	20nΔ	380mΔ	5.0 +	3	7	F02-55	DL16bo	
65#	GXB10171D		ECL	1	2	-81	-1	2	8	5.2	0.0	6.0mAP	3.3n	3.3n	3.3n	3.3n	3	8	2	F01-67	DL16bg
66#	GXB10171P		ECL	1	2	-81	-1	2	8	5.2	0.0	6.0mAP	3.3n	3.3n	3.3n	3.3n	3	8	2	F01-67	DL16ag
67#	GXB10172D		ECL	1	2	-81	-1	2	8	5.2	0.0	6.0mAP	3.3n	3.3n	3.3n	3.3n	3	8	2	F01-67	DL16bg
68#	GXB10172P		ECL	1	2	-81	-1	2	8	5.2	0.0	6.0mAP	3.3n	3.3n	3.3n	3.3n	3	8	2	F01-67	DL16ag
69#	GXB10161D		ECL	1	4	-81	-1	3	8	5.2	0.0	6.0mAP	3.3n	3.3n	3.3n	3.3n	3	8	1	F01-66	DL16ag
70#	GXB10161P		ECL	1	4	-81	-1	3	8	5.2	0.0	6.0mAP	3.3n	3.3n	3.3n	3.3n	3	8	1	F01-66	DL16ag
71#	GXB10162D		ECL	1	4	-81	-1	3	8	5.2	0.0	6.0mAP	3.3n	3.3n	3.3n	3.3n	3	8	1	F01-66	DL16ag
72#	GXB10162P		ECL	1	4	-81	-1	3	8	5.2	0.0	6.0mAP	3.3n	3.3n	3.3n	3.3n	3	8	1	F01-66	DL16ag
73	F100170DC		ECL	18	8	-0.9Δ	-2*	4.5	0	1.8n					0.1	0	8	1	F19-1	DL24an	
74	F100170FC		ECL	18	8	-0.9Δ</															

6. DECODERS

IN ORDER OF: (1) TECHNOLOGY (2) DECODES FROM (3) DECODES TO (4) TYPE NO.

LINE NO.	TYPE NO.	DATA SHT.	TECH	DECODES			LOGIC LEVEL		NUMBER OF LINES		POWER SUPPLY SPAN		TRANS-ISTION TIME (S)	RISE TIME (S)	FALL TIME (S)	MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS					
				R	O	M	MIN. (V)	MAX. (V)	IN	OUT	NEG (V)	POS (V)								MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	LOGIC OR BLOCK	OUTLINE
1	MC54F139J(A)		SCH	19	18	2.0	0.8	2	4	0	5.5					0.3	5	C	2	F19-2	DL16ds				
2	MC54F139N(A)		SCH	19	18	2.0	0.8	2	4	0	5.5					0.3	5	C	2	F19-2	DL16dt				
3	MC74F139J(A)		SCH	19	18	2.0	0.8	2	4	0	5.2					0.3	0	C	2	F19-2	DL16ds				
4	MC74F139N(A)		SCH	19	18	2.0	0.8	2	4	0	5.2					0.3	0	C	2	F19-2	DL16dt				
5	MC54F138J(A)		SCH	23	18	2.0	0.8	3	8	0	5.5					0.3	5	C	1	F23-2	DL16ds				
6	MC54F138N(A)		SCH	23	18	2.0	0.8	3	8	0	5.5					0.3	5	C	1	F23-2	DL16dt				
7	MC74F138J(A)		SCH	23	18	2.0	0.8	3	8	0	5.2					0.3	0	C	1	F23-2	DL16ds				
8	MC74F138N(A)		SCH	23	18	2.0	0.8	3	8	0	5.2					0.3	0	C	1	F23-2	DL16dt				
9	MC4001P#2		TTL	1	2	2.5Δ	.45ΔC	6	6	0.0	5.0	45n			300m		0	7	1	F02-36	DL16bo				
10	MC4032F		TTL	1	4	1.9*	1.0	10	2	0	5.0				20m	4.5	0	7	1	F01-75					
11	MC4032L		TTL	1	4	1.9*	1.0	10	2	0	5.0				20m	4.5	0	7	1	F01-75					
12	MC4032P		TTL	1	4	1.9*	1.0	10	2	0	5.0				20m	4.5	0	7	1	F01-75					
13	MC4332F#mil		TTL	1	4	2.0*	0.8Δ	10	2	0	5.0				20m	4.7	5	C	1	F01-75					
14	MC4332L#mil		TTL	1	4	2.0*	0.8Δ	10	2	0	5.0				20m	4.7	5	C	1	F01-75					
15#	M74LS138P		TTL	1	8	2.0*	.80Δ	6	8	0.0	5.0	28nPA			50m	400m*	2	7	1	F74S138N	DL16db				
16	N8250F		TTL	1	8	2.7*	.50ΔC	4	8	0.0	5.0	16nPA			360m		0	7	1	F01-37a	DL14bh				
17	N8250N		TTL	1	8	2.7*	.50ΔC	4	8	0.0	5.0	16nPA			360m		0	7	1	F01-37a	DL14br				
18	N8250P		TTL	1	8	2.6*	.40ΔC	4	8	0.0	5.0	35nPA			119m		0	7	1	F01-37a	DL14bh				
19	N8250N		TTL	1	8	2.6*	.40ΔC	4	8	0.0	5.0	35nPA			119m		0	7	1	F01-37a	DL14br				
20	S8250A		TTL	1	8	2.6*	.40C	4	8	0.0	5.0		5.0n	5.0n	125m		5	C	1	F01-20a	DL14e				
21	S8250F		TTL	1	8	2.6*	.40ΔC	4	8	0.0	5.0	35nPA			119m		5	C	1	F01-37a	DL14bh				
22	S8250W		TTL	1	8	2.6*	.40ΔC	4	8	0.0	5.0	35nPA			119m		5	C	1	F01-37b	FP39e				
23	N8T01B		TTL	1	10	68*	2.7CΔ	4	10	5	5				60m		0	7	1	F01-19	DL16b				
24	N8T01E		TTL	1	10	68*	2.7CΔ	4	10	5.0	5.0				60m		0	7	1	F01-19	DL16t				
25	S8T01B		TTL	1	10	68*	2.7CΔ	4	10	5	5				60m		2	8	1	F01-19	DL16b				
26	S8T01E		TTL	1	10	68*	2.7CΔ	4	10	5.0	5.0				60m		5	C	1	F01-19	DL16t				
27	93L01DC		TTL	1	18	2.0*	.70Δ	4	10	0.0	5.0	70nPA			45m	400m	0	7	1	F01-20b	DL16bd				
28	93L01DM		TTL	1	18	2.0*	.70Δ	4	10	0.0	5.0	70nPA			45m	400m	5	C	1	F01-20b	DL16bd				
29	93L01FM		TTL	1	18	2.0*	.70Δ	4	10	0.0	5.0	70nPA			45m	400m	5	C	1	F01-20b	FP79b				
30	93L01PC		TTL	1	18	2.0*	.70Δ	4	10	0.0	5.0	70nPA			45m	400m	0	7	1	F01-20b	DL16ce				
31	93L11PC		TTL	1	18	2.0*	.70Δ	4	16	0.0	5.0	75nPA			58m		0	7	1	F74-154N	DL24g				
32	93L21PC		TTL	1	18	2.0*	.70Δ	3	4	0.0	5.0	65nPA			45m		0	7	2	F74S139N	DL16ce				
33	9315DC		TTL	1	18	2.0*	.85Δ	4	10	0.0	5.0				45m		0	7	1	F74-41N	DL16t				
34	9315DM		TTL	1	18	1.9*	1.1Δ	4	10	0.0	5.0						5	C	1	F74-41N	DL16t				
35	9315FM		TTL	1	18	1.9*	1.1Δ	4	10	0.0	5.0						5	C	1	F74-41w	FP47b				
36	9315PC		TTL	1	18	2.0*	.85Δ	4	10	0.0	5.0	35nPA			155m%		0	7	1	F74-41N	*				
37	9321PC		TTL	1	18	2.0*	.80Δ	3	4	0.0	5.0	21nPA			250m%		0	7	2	F01-28a	DL16ce				
38	Am25LS2548DC		TTL	1	18	2.0*	.80Δ	3	8	0.0	5.0	17n					0	7	1	F01-64	DL20k				
39	Am25LS2548DM		TTL	1	18	2.0*	.80Δ	3	8	0.0	5.0	17n					5	C	1	F01-64	DL20k				
40	Am25LS2548FM		TTL	1	18	2.0*	.80Δ	3	8	0.0	5.0	17n					5	C	1	F01-64	FP143				
41	Am25LS2548PC		TTL	1	18	2.0*	.80Δ	3	8	0.0	5.0	17n					0	7	1	F01-64	DL20m				
42	D3205		TTL	1	18	2.0*	.85Δ	6	8	0.0	5.0	18nPA			350m		6	C	1	F74S138N	DL16ba				
43	DM54L154AF		TTL	1	18	2.0*	.70Δ	6	16	0.0	5.0	150nPA			20m		5	C	1	F54-154w	FP107a				
44	DM74L154AN		TTL	1	18	2.0*	.70Δ	6	16	0.0	5.0	150nPA			20m		0	7	1	F74-154N	DL24v				
45#	HD74LS138		TTL	1	18	2.0*	.80Δ	6	8	0.0	5.0				400m	300m	2	7	1	F01-73	DL16bc				
46#	HD74LS138P		TTL	1	18	2.0*	.80Δ	6	8	0.0	5.0				400m	300m	2	7	1	F01-73	DL16bc				
47#	HD74LS139		TTL	1	18	2.0*	.80Δ	6	8	0.0	5.0				400m	300m	2	7	2	F01-74	DL16bc				
48#	HD74LS139P		TTL	1	18	2.0*	.80Δ	6	8	0.0	5.0				400m	300m	2	7	2	F01-74	DL16bc				
49	JANM38510/15202BEA		TTL	1	18	2.0*	.80Δ	2	4	0.0	5.5	48nPA			195m	400m*	5	C	2	F74-156N	DL16br				
50	JANM38510/15202BEB		TTL	1	18	2.0*	.80Δ	2	4	0.0	5.5	48nPA			195m	400m*	5	C	2	F74-156N	DL16br				
51	JANM38510/15202BFA		TTL	1	18	2.0*	.80Δ	2	4	0.0	5.5	48nPA			195m	400m*	5	C	2	F74-156N	DL16br				
52	JANM38510/15202BFB		TTL	1	18	2.0*	.80Δ	2	4	0.0	5.5	48nPA			195m	400m*	5	C	2	F74-156N	DL16br				
53	JANM38510/15202BFC		TTL	1	18	2.0*	.80Δ	2	4	0.0	5.5	48nPA			195m	400m*	5	C	2	F74-156N	DL16br				
54	JANM38510/15202BFD		TTL	1	18	2.0*	.80Δ	2	4	0.0	5.5	48nPA			195m	400m*	5	C	2	F74-156N	DL16br				
55	JANM38510/15202BFE		TTL	1	18	2.0*	.80Δ	2	4	0.0	5.5	48nPA			195m	400m*	5	C	2	F74-156N	DL16br				
56	JANM38510/15202BFF		TTL	1	18	2.0*	.80Δ	2	4	0.0	5.5	48nPA			195m	400m*	5	C	2	F74-156N	DL16br				
57	JANM38510/15202BFG		TTL	1	18	2.0*	.80Δ	2	4	0.0	5.5	48nPA			195m	400m*	5	C	2	F74-156N	DL16br				
58	JANM38510/15202BFH		TTL	1	18	2.0*	.80Δ	2	4	0.0	5.5	48nPA			195m	400m*	5	C	2	F74-156N	DL16br				
59	JANM38510/15202BFI		TTL	1	18	2.0*	.80Δ	2	4	0.0	5.5	48nPA			195m	400m*	5	C	2	F74-156N	DL16br				
60	JANM38510/15202BFJ		TTL	1	18	2.0*	.80Δ	2	4	0.0	5.5	48nPA			195m	400m*	5	C	2	F74-156N	DL16br				
61	JANM38510/15202BFK		TTL	1	18	2.0*	.80Δ	2	4	0.0	5.5	48nPA			195m	400m*	5	C	2	F74-156N	DL16br				
62	JANM38510/15202BFL		TTL	1	18	2.0*	.80Δ	2	4	0.0	5.5	48nPA			195m	400m*	5	C	2	F74-156N	DL16br				
63	JANM38510/15202BFM		TTL	1	18	2.0*	.80Δ	2	4	0.0	5.5	48nPA			195m	400m*	5	C	2	F74-156N	DL16br				
64	JANM38510/15202BFN		TTL	1	18	2.0*	.80Δ	2	4	0.0	5.5	48nPA			195m	400m*	5	C	2	F74-156N	DL16br				
65	MC4006LP%		TTL	1	18	2.0*	.80Δ	2	4	0.0	5.5	57nPA			195m	400m*	5	C	2	F74-156W	FP117				
66	MC4007L		TTL	1	18	2.5*	.40ΔC	3	8	0.0	5.0	14nP			100m		0	7	1	F74-406	TO116				
67	MC4007P		TTL	1	18	2.5*	.40ΔC	3	10	0.0	5.0	29nPA			125m		0	7	2	F01-28	DL16aj				
68	MC4038P		TTL	1	18	2.0*	.90Δ	3	8	0.0	5.0	14nP			125m		0	7	2	F01-28	DL16bo				
69	MC4048P		TTL	1	18	2.0*	.90Δ	3	8	0.0	5.0	14nP			240m		0	7	1	F01-22	DL16bo				
70	MC4306F		TTL	1	18	2.4*	.40ΔC	3	8	0.0	5.0	14nP			100m		5	C	1	F54-406	TO86				
71	MC4306L		TTL	1	18	2.4*	.40ΔC	3	8	0.0	5.0	14nP			100m		5	C	1	F74-406	TO116				
72	MC4307L		TTL	1	18	2.4*	.40ΔC	3	4	0.0	5.0	14nP			125m		5	C	2	F01-28	DL16aj				
73#	N74LS156N		TTL	1	18	2.0	0.8	2	4	0.0	5.0	15n				0.4	0	7	2	F74-156N	DL16aw				
74#	N74LS156W		TTL	1	18	2.0	0.8	2	4	0.0	5.0	15n				0.4	0	7	2	F74-					

6. DECODERS

IN ORDER OF: (1) TECHNOLOGY (2) DECODES FROM (3) DECODES TO (4) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	DECODES			LOGIC LEVEL		NUMBER OF LINES		POWER SUPPLY SPAN (V)	TRANSITION TIME (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS				
				2	3	4	MIN. '1' (V)	MAX. '0' (V)	IN	OUT			RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE			
																					F	R	O
1#	ZN54154J		TTL	1	1	18	2.0*	.80Δ	6	10	0.0	5.0	36nPA		170m†	1.0 †	5	C	1	74-154N	DL14ap		
2#	ZN54155E		TTL	1	1	18	2.0*	.80Δ	6	10	0.0	5.0	32nPA		125m†	1.0 †	5	C	1	74-155N	TO116		
3#	ZN54155J		TTL	1	1	18	2.0*	.80Δ	6	10	0.0	5.0	32nPA		125m†	1.0 †	5	C	1	74-155N	DL14ap		
4#	ZN74154E		TTL	1	1	18	2.0*	.80Δ	6	10	0.0	5.0	36nPA		170m†	1.0 †	0	7	1	74-154N	TO116		
5#	ZN74154J		TTL	1	1	18	2.0*	.80Δ	6	10	0.0	5.0	36nPA		170m†	1.0 †	0	7	1	74-154N	DL14ap		
6#	ZN74155E		TTL	1	1	18	2.0*	.80Δ	6	10	0.0	5.0	32nPA		125m†	1.0 †	0	7	1	74-155N	TO116		
7#	ZN74155J		TTL	1	1	18	2.0*	.80Δ	6	10	0.0	5.0	32nPA		125m†	1.0 †	0	7	1	74-155N	DL14ap		
8	Am29806		TTL	1	1	19	2.0	0.8	4	4	0.0	5.0				0.3	5	C	1		DL24Z		
9	MC4040P		TTL	1	1	19	2.0*	.90Δ	4	8	0.0	5.0	45n		200m†		0	7	1	F01-22a	DL16bo		
10	MC4001P#1		TTL	2	2	1	2.5Δ	.45ΔC	6	6	0.0	5.0	45n		300m†		0	7	1	F02-36	DL16bo		
11	DM54L42AJ		TTL	2	2	3	2.0*	.70Δ	4	10	0.0	5.0	140nPA		15m†		5	C	1	74-42N	DL16bz		
12	DM74L42AN		TTL	2	2	3	2.0*	.70Δ	4	10	0.0	5.0	140nPA		15m†		0	7	1	74-42N	DL16bu		
13	5445DM		TTL	2	2	4	2.0*	.80Δ	4	10	0.0	5.0	50nΔ		215m†	1.0 †	5	C	1	74-45N	DL16cp		
14	7445DC		TTL	2	2	4	2.0*	.80Δ	4	10	0.0	5.0	50nΔ		215m†	1.0 †	0	7	1	74-45N	DL16cp		
15	7445PC		TTL	2	2	4	2.0*	.80Δ	4	10	0.0	5.0	50nΔ		215m†	1.0 †	0	7	1	74-45N			
16	9352FM		TTL	2	2	4	2.0*	.80Δ	4	10	0.0	5.0	35nPA		280m		5	C	1	54LS42W	FP47b		
17	54145DM		TTL	2	2	4	2.0*	.80Δ	4	10	0.0	5.0	50nPA		215m†		5	C	1	74-45N	DL16cp		
18	54145FM		TTL	2	2	4	2.0*	.80Δ	4	10	0.0	5.0	50nPA		215m†		5	C	1	54-45W	FP93c		
19	74141DC		TTL	2	2	4	2.0*	.80Δ	4	10	0.0	5.0			55m†		0	7	1	74-41N	DL16cp		
20	74145DC		TTL	2	2	4	2.0*	.80Δ	4	10	0.0	5.0	50nPA		215m†		0	7	1	74-45N	DL16cp		
21	74145PC		TTL	2	2	4	2.0*	.80Δ	4	10	0.0	5.0	50nPA		215m†		0	7	1	74-45N	*		
22	DM54LS155J#mil		TTL	2	4	2.0	0.8				0	7.0	22n				0.4	5	C	8	F01-31	DL16au	
23	DM54LS155W#mil		TTL	2	4	2.0	0.8				0	7.0	22n				0.4	5	C	8	F01-31	FP98b	
24	DM54LS156J#mil		TTL	2	4	2.0	0.8				0	7.0	32n				0.4	5	C	8	F01-31	DL16au	
25	DM54LS156W#mil		TTL	2	4	2.0	0.8				0	7.0	32n				0.4	5	C	8	F01-31	FP98b	
26	DM74LS155N		TTL	2	2	4	2.0	0.8			0	7.0	22n				0.4	0	7	8	F01-31	DL16a	
27	DM74LS156N		TTL	2	2	4	2.0	0.8			0	7.0	32n				0.4	0	7	8	F01-31	DL16a	
28	DM5441AJ		TTL	2	2	4	2.0*	.80Δ	4	10	0.0	5.0			180m†		5	C	1	74-41N	DL16ae		
29	DM5441AW		TTL	2	2	4	2.0*	.80Δ	4	10	0.0	5.0			180m†		5	C	1	54-41W	FP98b		
30	DM5442J		TTL	2	2	4	2.0*	.80Δ	4	10	0.0	5.0	35nPA		280m†		5	C	1	74-42N	DL16ai		
31	DM5442W		TTL	2	2	4	2.0*	.80Δ	4	10	0.0	5.0	35nPA		280m†		5	C	1	54LS42W	FP88a		
32	DM5445J		TTL	2	2	4	2.0*	.80Δ	4	10	0.0	5.0	30nPA		210m†		5	C	1	74-45N	DL16ae		
33	DM5445W		TTL	2	2	4	2.0*	.80Δ	4	10	0.0	5.0	30nPA		210m†		5	C	1	54-45W	FP98		
34	DM7441AN		TTL	2	2	4	2.0*	.80Δ	4	10	0.0	5.0			180m†		0	7	1	74-41N	DL16bu		
35	DM7442N		TTL	2	2	4	2.0*	.80Δ	4	10	0.0	5.0	35nPA		280m†		0	7	1	74-42N	DL16bu		
36	DM7445N		TTL	2	2	4	2.0*	.80Δ	4	10	0.0	5.0	30nPA		210m†		0	7	1	74-45N	DL16bu		
37	DM8301J		TTL	2	2	4	2.0*	.80Δ	4	10	0.0	5.0	30nPA		125m†		0	7	1	F01-20b	DL16ai		
38	DM8301N		TTL	2	2	4	2.0*	.80Δ	4	10	0.0	5.0	30nPA		125m†		0	7	1	F01-20b	DL16bu		
39	DM8301W		TTL	2	2	4	2.0*	.80Δ	4	10	0.0	5.0	30nPA		125m†		0	7	1	FP88a	DL16ai		
40	DM8301J		TTL	2	2	4	2.0*	.80Δ	4	10	0.0	5.0	30nPA		125m†		5	C	1	F01-20b	DL16bu		
41	DM8301N		TTL	2	2	4	2.0*	.80Δ	4	10	0.0	5.0	30nPA		125m†		5	C	1	F01-20b	DL16bu		
42	DM54155J#mil		TTL	2	4	2.0	0.8				0	7.0	20n				0.4	5	C	8	F01-31	DL16au	
43	DM54155W#mil		TTL	2	4	2.0	0.8				0	7.0	20n				0.4	5	C	8	F01-31	FP98b	
44	DM54156J#mil		TTL	2	4	2.0	0.8				0	7.0	23n				0.4	5	C	8	F01-31	DL16au	
45	DM54156W#mil		TTL	2	4	2.0	0.8				0	7.0	23n				0.4	5	C	8	F01-31	FP98b	
46	DM74141J		TTL	2	2	4	2.0*	.80Δ	4	10	0.0	5.0			55m†		0	7	1	74-41N	DL16ae		
47	DM74141N		TTL	2	2	4	2.0*	.80Δ	4	10	0.0	5.0			55m†		0	7	1	74-41N	DL16bu		
48	DM74141W		TTL	2	2	4	2.0*	.80Δ	4	10	0.0	5.0			55m†		0	7	1	54-41W	FP98		
49	DM74145J		TTL	2	2	4	2.0*	.80Δ	4	10	0.0	5.0	30nPA		210m†		0	7	1	74-45N	DL16ae		
50	DM74145N		TTL	2	2	4	2.0*	.80Δ	4	10	0.0	5.0	30nPA		210m†		0	7	1	74-45N	DL16bu		
51	DM74145W		TTL	2	2	4	2.0*	.80Δ	4	10	0.0	5.0	30nPA		210m†		0	7	1	54-45W	FP98		
52	DM74155N		TTL	2	2	4	2.0	0.8			0	7.0	20n				0.4	0	7	8	F01-31	DL16a	
53	DM74156N		TTL	2	2	4	2.0	0.8			0	7.0	23n				0.4	0	7	8	F01-31	DL16a	
54#	FJH261-7442		TTL	2	2	4	2.0*	.80Δ	4	10	0.0	5.0	20nP		140m†		0	7	1	74-42N	DL16f		
55#	HD74LS42		TTL	2	2	4	2.0*	.80Δ	4	10	0.0	5.0	20nP		400m		2	7	1	F01-20	DL16bc		
56#	HD74LS42P		TTL	2	2	4	2.0*	.80Δ	4	10	0.0	5.0	20nP		400m		2	7	1	F01-20	DL16bc		
57#	K155ID3		TTL	2	2	4	2.4	0.4	4	16	5.0						1	7	1				
58#	M74LS42P		TTL	2	2	4	2.0*	.80Δ	4	10	0.0	5.0	27nΔ	27n	30n		35m†		2	7	1	74-42N	DL16bm
59#	M74LS145P		TTL	2	2	4	2.0*	.80Δ	4	10	0.0	5.0	50nΔ		35m†		400m*		2	7	1	74-45N	DL16bm
60	JANM38510/01001BEA		TTL	2	4	2.0*	.80Δ		4	10	0.0	5.5	46nPA		226m		5	C	1	74-42N	DL16br		
61	JANM38510/01001BEB		TTL	2	4	2.0*	.80Δ		4	10	0.0	5.5	46nPA		226m		5	C	1	74-42N	DL16br		
62	JANM38510/01001BFA		TTL	2	4	2.0*	.80Δ		4	10	0.0	5.5	46nPA		226m		5	C	1	74-42N	DL16br		
63	JANM38510/01001BFB		TTL	2	4	2.0*	.80Δ		4	10	0.0	5.5	46nPA		226m		5	C	1	74-42N	DL16br		
64	JANM38510/01001CEA		TTL	2	4	2.0*	.80Δ		4	10	0.0	5.5	46nPA		226m		5	C	1	54LS42W	FP117		
65	JANM38510/01001CEB		TTL	2	4	2.0*	.80Δ		4	10	0.0	5.5	46nPA		226m		5	C	1	74-42N	DL16br		
66	JANM38510/01001CFA		TTL	2	4	2.0*	.80Δ		4	10	0.0	5.5	46nPA		226m		5	C	1	74-42N	DL16br		
67	JANM38510/01001CFB		TTL	2	4	2.0*	.80Δ		4	10	0.0	5.5	46nPA		226m		5	C	1	74-42N	DL16br		
68	JANM38510/15206BEA		TTL	2	4	2.0*	.80Δ		4	10	0.0	5.5	46nPA		226m		5	C	1	54LS42W	FP117		
69	JANM38510/15206BEB		TTL	2	4	2.0*	.80Δ		4	10	0.0	5.5	53nPA		190m	400m*	5	C	1	F01-20b	DL16br		
70	JANM38510/15206BFA		TTL	2	4	2.0*	.80Δ		4	10	0.0	5.5	53nPA		190m	400m*	5	C	1	F01-20b	DL16br		
71	JANM38510/15206BFB		TTL	2	4	2.0*	.80Δ		4	10	0.0	5.5	53nPA		190m	400m*	5	C	1	F01-20b	DL16br		
72	JANM38510/15206CEA		TTL	2	4	2.0*	.80Δ		4	10	0.0	5.5	53nPA		190m	400m*	5	C	1	F01-20b	DL16br		
73	JANM38510/15206CEB		TTL	2	4	2.0*	.80Δ		4	10	0.0	5.5	53nPA		190m	400m*	5	C	1	F01-20b	DL16br		
74	JANM38510/15206CFA		TTL	2	4																		

6. DECODERS

IN ORDER OF: (1) TECHNOLOGY (2) DECODES FROM (3) DECODES TO (4) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	DECODES			LOGIC LEVEL		NUMBER OF LINES		POWER SUPPLY		TRANSITION TIME (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS	
				2	F	3	MIN. '1' (V)	MAX. '0' (V)	IN	OUT	NEG (V)	POS (V)		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE
1#	M53345P		TTL	2	4	2.0*	.80C	4	10	0.0	5.0	50nΔ			215m†	1.0 †	0	7	1	74-45N	DL16u
2#	MB74LS145M		TTL	2	4	2.0*	.80A	4	10	0.0	5.0	50nPA			35m†		2	7	1	74-45N	DL16cu
3#	N74LS42D		TTL	2	4	2.0*	.80A	4	10	0.0	5.0	30nPA			65m		0	7	1	74-42N	DL16bp
4	N74LS42N		TTL	2	4	2.0*	.80A	4	10	0.0	5.0	30nPA			65m		0	7	1	74-42N	DL16bp
5	N82552F		TTL	2	4	2.7*	.50ΔC	4	10	0.0	5.0	16nPA			425m		0	7	1	F01-20b	DL16aw
6	N82552N		TTL	2	4	2.7*	.50ΔC	4	10	0.0	5.0	16nPA			425m		0	7	1	F01-20b	DL16bp
7	N7442F		TTL	2	4	2.0*	.80A	4	10	0.0	5.0	30nPA			280m		0	7	1	74-42N	DL16aw
8	N7442N		TTL	2	4	2.0*	.80A	4	10	0.0	5.0	30nPA			280m		0	7	1	74-42N	DL16bp
9	N7443N		TTL	2	4	2.0*	.80A	4	10	0.0	5.0	35nPA			280m		0	7	1	74-43N	DL16bp
10	N8251F		TTL	2	4	2.6*	.40ΔC	4	10	0.0	5.0	35nPA			128m		0	7	1	F01-20g	DL16aw
11	N8251N		TTL	2	4	2.6*	.40ΔC	4	10	0.0	5.0	35nPA			128m		0	7	1	F01-20g	DL16bp
12	N8252F		TTL	2	4	2.6*	.40ΔC	4	10	0.0	5.0	35nPA			128m		0	7	1	F01-20b	DL16aw
13	N8252N		TTL	2	4	2.6*	.40ΔC	4	10	0.0	5.0	35nPA			128m		0	7	1	F01-20b	DL16bp
14	S54LS42F		TTL	2	4	2.0*	.70Δ	4	10	0.0	5.0	30nPA			65m		5	5	1	74-42N	DL16aw
15	S54LS42W		TTL	2	4	2.0*	.70Δ	4	10	0.0	5.0	30nPA			65m		5	5	1	54LS42W	FP47g
16	S5442F		TTL	2	4	2.0*	.80A	4	10	0.0	5.0	35nPA			205m	1.0 †	5	5	1	74-42N	DL16ak
17	S5442W		TTL	2	4	2.0*	.80A	4	10	0.0	5.0	35nPA			205m	1.0 †	5	5	1	54LS42W	FP47g
18	S5445F		TTL	2	4	2.0*	.80A	4	10	0.0	5.0	50nPA			310m	1.0 †	5	5	1	74-45N	DL16ak
19	S5445W		TTL	2	4	2.0*	.80A	4	10	0.0	5.0	50nPA			310m	1.0 †	5	5	1	54-45W	FP47g
20	S8251F		TTL	2	4	2.6*	.40ΔC	4	10	0.0	5.0	35nPA			128m		5	5	1	F01-20g	DL16aw
21	S8251W		TTL	2	4	2.6*	.40ΔC	4	10	0.0	5.0	35nPA			128m		5	5	1	F01-20g	FP47g
22	S8252F		TTL	2	4	2.6*	.40ΔC	4	10	0.0	5.0	35nPA			128m		5	5	1	F01-20b	DL16aw
23	S8252W		TTL	2	4	2.6*	.40ΔC	4	10	0.0	5.0	35nPA			128m		5	5	1	F01-20b	FP47g
24	S54145E		TTL	2	4	2.0*	.80A	4	10	0.0	5.0	60nPA					5	5	1	74-45N	DL16†
25	S54145F		TTL	2	4	2.0*	.80A	4	10	0.0	5.0	50nPA			310m	1.0 †	5	5	1	74-45N	DL16ak
26	S54145R		TTL	2	4	2.0*	.80A	4	10	0.0	5.0	60nPA					5	5	1	54-45W	FP79a
27	S54145W		TTL	2	4	2.0*	.80A	4	10	0.0	5.0	50nPA			310m	1.0 †	5	5	1	54-45W	FP47g
28#	SFC442E		TTL	2	4	2.0*	.80A	4	10	0.0	5.0	35nΔ			140m†		5	7	1	74-42N	DL16a
29#	SFC442EM		TTL	2	4	2.0*	.80A	4	10	0.0	5.0	35nΔ			140m†		5	7	1	74-42N	DL16a
30#	SFC442ET		TTL	2	4	2.0*	.80A	4	10	0.0	5.0	35nΔ			140m†		2	8	1	74-42N	DL16a
31#	SFC4141E		TTL	2	4	2.0*	.80A	4	10	0.0	5.0	50nPA			80m†		5	7	1	74-41N	DL16a
32	SN54L42J		TTL	2	4	2.0*	.80A	4	10	0.0	5.0	30nPA			70m†	1.0 †	5	7	1	74-42N	DL16v
33	SN54LS42J		TTL	2	4	2.0*	.70Δ	4	10	0.0	5.0	30nPA			35m†	1.0 †	5	7	1	74-42N	DL16v
34	SN54LS42W		TTL	2	4	2.0*	.70Δ	4	10	0.0	5.0	30nPA			35m†	1.0 †	5	7	1	54LS42W	MO004AG
35	SN74LS42J		TTL	2	4	2.0*	.80A	4	10	0.0	5.0	30nPA			35m†	1.0 †	0	7	1	74-42N	DL16v
36	SN74LS42N		TTL	2	4	2.0*	.80A	4	10	0.0	5.0	30nPA			35m†	1.0 †	0	7	1	74-42N	DL16i
37	SN5442AJ		TTL	2	4	2.0*	.80A	4	10	0.0	5.0	30nPA			140m†	1.0 †	5	7	1	54LS42W	DL16v
38	SN5442AW		TTL	2	4	2.0*	.80A	4	10	0.0	5.0	30nPA			140m†	1.0 †	5	7	1	54LS42W	MO004AG
39	SN5445J		TTL	2	4	2.0*	.80A	4	10	0.0	5.0	50nΔ			215m†	1.0 †	5	7	1	74-45N	DL16v
40	SN5445W		TTL	2	4	2.0*	.80A	4	10	0.0	5.0	50nΔ			215m†	1.0 †	5	7	1	54-45W	MO004AG
41	SN7442AJ		TTL	2	4	2.0*	.80A	4	10	0.0	5.0	30nPA			140m†	1.0 †	0	7	1	74-42N	DL16v
42	SN7442AN		TTL	2	4	2.0*	.80A	4	10	0.0	5.0	30nPA			140m†	1.0 †	0	7	1	74-42N	DL16i
43	SN7445J		TTL	2	4	2.0*	.80A	4	10	0.0	5.0	50nΔ			215m†	1.0 †	0	7	1	74-45N	DL16v
44	SN7445N		TTL	2	4	2.0*	.80A	4	10	0.0	5.0	50nΔ			215m†	1.0 †	0	7	1	74-45N	DL16i
45	SN29301J		TTL	2	4	2.0*	.80A	4	10	0.0	5.0	30nP			145m%		0	7	1	74-42N	DL16v
46	SN29301N		TTL	2	4	2.0*	.80A	4	10	0.0	5.0	30nP			145m%		0	7	1	74-42N	DL16i
47	SN39301J		TTL	2	4	2.0*	.80A	4	10	0.0	5.0	30nPA			145m%		5	7	1	74-42N	DL16v
48	SN54145J		TTL	2	4	2.0*	.80A	4	10	0.0	5.0	50nPA			215m†		5	7	1	74-45N	DL16v
49	SN54145W		TTL	2	4	2.0*	.80A	4	10	0.0	5.0	50nPA			215m†		5	7	1	F01-20e	MO004AG
50	SN74141J		TTL	2	4	2.0*	.80A	4	10	0.0	5.0	50nPA			55m†		0	7	1	74-41N	DL16v
51	SN74141N		TTL	2	4	2.0*	.80A	4	10	0.0	5.0	50nPA			55m†		0	7	1	74-41N	DL16i
52	SN74145J		TTL	2	4	2.0*	.80A	4	10	0.0	5.0	30nPA			215m†		0	7	1	74-45N	DL16v
53	SN74145N		TTL	2	4	2.0*	.80A	4	10	0.0	5.0	30nPA			215m†		0	7	1	74-45N	DL16i
54#	ZN5442E		TTL	2	4	2.0*	.80A	4	10	0.0	5.0	30nPA			140m†	1.0 †	5	7	1	74-42N	TO116
55#	ZN5442J		TTL	2	4	2.0*	.80A	4	10	0.0	5.0	30nPA			140m†	1.0 †	5	7	1	74-42N	DL14ap
56#	ZN7442E		TTL	2	4	2.0*	.80A	4	10	0.0	5.0	30nPA			140m†	1.0 †	0	7	1	74-42N	TO116
57#	ZN7442J		TTL	2	4	2.0*	.80A	4	10	0.0	5.0	30nPA			140m†	1.0 †	0	7	1	74-42N	DL14ap
58	54LS42DM		TTL	2	18	2.0*	.70Δ	4	10	0.0	5.0	19nP			60m%		5	7	1	F01-20e	DL16x
59	54LS42FM		TTL	2	18	2.0*	.70Δ	4	10	0.0	5.0	19nP			60m%		0	7	1	54LS42W	FP47b
60	74LS42DC		TTL	2	18	2.0*	.80A	4	10	0.0	5.0	19nP			60m%		0	7	1	74-42N	DL16x
61	74LS42PC		TTL	2	18	2.0*	.80A	4	10	0.0	5.0	19nP			60m%		0	7	1	74-42N	DL16i
62	5442ADM		TTL	2	18	2.0*	.80A	4	10	0.0	5.0						5	7	1	74-42N	DL16cj
63	5442AFM		TTL	2	18	2.0*	.80A	4	10	0.0	5.0						5	7	1	74-42N	FP93c
64	7442ADC		TTL	2	18	2.0*	.80A	4	10	0.0	5.0						0	7	1	74-42N	DL16cj
65	7442APC		TTL	2	18	2.0*	.80A	4	10	0.0	5.0						0	7	1	74-42N	*
66	9301DC		TTL	2	18	2.0*	.80A	4	10	0.0	5.0	35nPA			210m%		0	7	1	F01-20b	DL16bd
67	9301DM		TTL	2	18	2.0*	.80A	4	10	0.0	5.0	35nPA			220m%		5	7	1	F01-20b	DL16bd
68	9301FM		TTL	2	18	2.0*	.80A	4	10	0.0	5.0	35nPA			220m%		5	7	1	F01-20b	FP79b
69	9301PC		TTL	2	18	2.0*	.80A	4	10	0.0	5.0	35nPA			210m%		0	7	1	F01-20b	DL16ce
70	9301PC#		TTL	2	18	2.0*	.80A	4	10	0.0	5.0	35nPA			210m%		0	7	1	F01-20b	*
71	9302FM		TTL	2	18	2.0*	.80A	4	10	0.0	5.0						5	7	1	F01-20b	FP47b
72	9311PC		TTL	2	18	2.0*	.80A	6	16	0.0	5.0	31nPA			145m†		0	7	1	74-15AN	DL24g
73	54154DM		TTL	2	18	2.0*	.80A	6	10	0.0	5.0	36nP			269m%		5	7	1	74-15AN	DL24ag
74	54154FM		TTL	2	18	2.0*	.80A	6	10	0.0	5.0	36nP			269m%		5	7	1	54-154W	FP66a
7																					

6. DECODERS

IN ORDER OF: (1) TECHNOLOGY (2) DECODES FROM
(3) DECODES TO (4) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	DECODES		LOGIC LEVEL		NUMBER OF LINES		POWER SUPPLY		TRANSITION TIME (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE		CKTS PER MOD	DRAWINGS	
				2	3	MIN. (V)	MAX. (V)	IN	OUT	SPAN (V)	POS (V)		RISE TIME (S)	FALL TIME (S)			-	+		LOGIC OR BLOCK	OUTLINE
				R	O	'	'														
1	JANM38510/01002BEA		TTL	5	4	2.0*	.80Δ	4	10	0.0	5.5	46nPA			226m		5	C	1	74-43N	DL16br
2	JANM38510/01002BEB		TTL	5	4	2.0*	.80Δ	4	10	0.0	5.5	46nPA			226m		5	C	1	74-43N	DL16br
3	JANM38510/01002BFA		TTL	5	4	2.0*	.80Δ	4	10	0.0	5.5	46nPA			226m		5	C	1	74-43N	DL16br
4	JANM38510/01002BFB		TTL	5	4	2.0*	.80Δ	4	10	0.0	5.5	46nPA			226m		5	C	1	54-43W	FP117
5	JANM38510/01002CEA		TTL	5	4	2.0*	.80Δ	4	10	0.0	5.5	46nPA			226m		5	C	1	74-43N	DL16br
6	JANM38510/01002CEB		TTL	5	4	2.0*	.80Δ	4	10	0.0	5.5	46nPA			226m		5	C	1	74-43N	DL16br
7	JANM38510/01002CFA		TTL	5	4	2.0*	.80Δ	4	10	0.0	5.5	46nPA			226m		5	C	1	74-43N	DL16br
8	JANM38510/01002CFB		TTL	5	4	2.0*	.80Δ	4	10	0.0	5.5	46nPA			226m		5	C	1	74-43N	DL16br
9	N7443F		TTL	5	4	2.0*	.80Δ	4	10	0.0	5.0	35nPA			226m		5	C	1	54-43W	FP117
10	S5443F		TTL	5	4	2.0*	.80Δ	4	10	0.0	5.0	35nPA			280m		0	7	1	74-43N	DL16aw
11	S5443W		TTL	5	4	2.0*	.80Δ	4	10	0.0	5.0	35nPA			205m	1.0 †	5	C	1	74-43	DL16ak
12	SN5443AJ		TTL	5	4	2.0*	.80Δ	4	10	0.0	5.0	30nPA			140m†	1.0 †	5	C	1	54-43W	FP47g
13	SN5443AW		TTL	5	4	2.0*	.80Δ	4	10	0.0	5.0	30nPA			140m†	1.0 †	5	C	1	74-43	DL16v
14	SN7443AJ		TTL	5	4	2.0*	.80Δ	4	10	0.0	5.0	30nPA			140m†	1.0 †	0	7	1	54-43W	MO004AG
15	SN7443AN		TTL	5	4	2.0*	.80Δ	4	10	0.0	5.0	30nPA			140m†	1.0 †	0	7	1	74-43	DL16v
16	5443AFM		TTL	5	18	2.0*	.80Δ	4	10	0.0	5.0				25n	25n	5	C	1	54-43W	MO004AG
17	5444AFM		TTL	6	18	2.0*	.80Δ	4	10	0.0	5.0				25n	25n	5	C	1	74-44N	FP93c
18	960DC		TTL	17	4	1.0*	.40Δ	4	10	0.0	6.0						0	7	1	F17-6	DL16c
19#	HD100170		TTL	18	8	-1.1	1.5			7.0	0	3.2n			45m		0	8	1	F17-6	DL24Z
20	MC4000F		TTL	18	18	2.0	1.1	4	1	0	5.0				150m		0	7	1	F18-5	
21	MC4000L		TTL	18	18	2.0	1.1	4	1	0	5.0				150m		0	7	1	F18-5	
22	MC4000P		TTL	18	18	2.0	1.1	4	1	0	5.0				150m		0	7	1	F18-5	
23	MC4002F		TTL	18	18	1.8	0.9	1	4	0	5.0				175m		0	7	1	F18-3	
24	MC4002L		TTL	18	18	1.8	0.9	1	4	0	5.0				175m		0	7	1	F18-3	
25	MC4002P		TTL	18	18	1.8	0.9	1	4	0	5.0				175m		0	7	1	F18-3	
26	MC4300F #mil		TTL	18	18	2.0	1.1	4	1	0	5.0				150m		5	C	1	F18-5	
27	MC4300L #mil		TTL	18	18	2.0	1.1	4	1	0	5.0				150m		5	C	1	F18-5	
28	93S21DC		TTL	19	18	2.0*	.80Δ			0.0	5.0	12nΔ			450m		0	7	2	74S139N	DL16cd
29	93S21DM		TTL	19	18	2.0*	.80Δ			0.0	5.0	12nΔ			450m		5	C	2	74S139N	DL16cd
30	93S21FM		TTL	19	18	2.0*	.80Δ			0.0	5.0	12nΔ			450m		5	C	2	54S139W	FP79b
31	93S21PC		TTL	19	18	2.0*	.80Δ			0.0	5.0	12nΔ			450m		0	7	2	74S139N	DL16ce
32	AM25LS139DC		TTL	19	18	2.0*	.80Δ			0.0	5.0	21nΔ			55m		0	7			DL16cd
33	AM25LS139DM		TTL	19	18	2.0*	.70Δ			0.0	5.0	21nΔ			55m		5	C			DL16cd
34	AM25LS139FM		TTL	19	18	2.0*	.70Δ			0.0	5.0	21nΔ			55m		5	C			FP79b
35	AM25LS139PC		TTL	19	18	2.0*	.80Δ			0.0	5.0	21nΔ			55m		0	7			DL16ce
36#	M74LS139P		TTL	19	18	2.0*	.80Δ	3	4	0.0	5.0	27nPA			55m	400m*	2	7	2	74S139N	DL16db
37#	M74LS155P		TTL	19	18	2.0*	.80Δ	4	4	0.0	5.0	27nPA			50m	400m*	2	7	2	74-155N	DL16db
38#	M74LS156P		TTL	19	18	2.0*	.80Δ	4	4	0.0	5.0	33nPA			50m	400m*	2	7	2	74-156N	DL16db
39#	MB74LS139		TTL	19	18	2.0*	.80Δ	3	4	0.0	5.0	38nPA			34m†		2	7	2	74S139N	DL16as
40#	MB74LS139M		TTL	19	18	2.0*	.80Δ	3	4	0.0	5.0	38nPA			34m†		2	7	2	74S139N	DL16cu
41#	MB74LS155		TTL	19	18	2.0*	.80Δ	3	4	0.0	5.0	30nPA			31m†		2	7	2	74-155N	DL16as
42#	MB74LS155M		TTL	19	18	2.0*	.80Δ	3	4	0.0	5.0	30nPA			31m†		2	7	2	74-155N	DL16cu
43#	MB74LS156		TTL	19	18	2.0*	.80Δ	3	4	0.0	5.0	51nPA			31m†		2	7	2	74-156N	DL16as
44#	MB74LS156M		TTL	19	18	2.0*	.80Δ	3	4	0.0	5.0	51nPA			31m†		2	7	2	74-156N	DL16cu
45	SN54LS139J		TTL	19	18	2.0*	.70Δ	3		0.0	5.0	22n			34m†		5	C	2	74S139N	DL16v
46	SN54LS139W		TTL	19	18	2.0*	.70Δ	3		0.0	5.0	22n			34m†		5	C	2	54S139W	MO004AG
47	SN54S139J		TTL	19	18	2.0*	.80Δ	3		0.0	5.0	7.5n			300m†		0	7	2	74S139N	DL16v
48	SN54S139W		TTL	19	18	2.0*	.80Δ	3		0.0	5.0	7.5n			300m†		0	7	2	54S139W	MO004AG
49	SN74LS139J		TTL	19	18	2.0*	.80Δ	3		0.0	5.0	22n			34m†		0	7	2	74S139N	DL16v
50	SN74LS139N		TTL	19	18	2.0*	.80Δ	3		0.0	5.0	22n			34m†		0	7	2	74S139N	DL16i
51	SN74S139J		TTL	19	18	2.0*	.80Δ	3		0.0	5.0	7.5n			300m†		0	7	2	74S139N	DL16v
52	SN74S139N		TTL	19	18	2.0*	.80Δ	3		0.0	5.0	7.5n			300m†		0	7	2	74S139N	DL16i
53#	HD100170F		TTL	19	19	-1.1	1.5			7.0	0	3.2n			40m†		0	8	1	FP1Z	
54	JANM38510/01003BEA		TTL	21	4	2.0*	.80Δ	4	10	0.0	5.5	46nPA			226m		5	C	1	74-44N	DL16br
55	JANM38510/01003BEB		TTL	21	4	2.0*	.80Δ	4	10	0.0	5.5	46nPA			226m		5	C	1	74-44N	DL16br
56	JANM38510/01003BFA		TTL	21	4	2.0*	.80Δ	4	10	0.0	5.5	46nPA			226m		5	C	1	74-44N	DL16br
57	JANM38510/01003BFB		TTL	21	4	2.0*	.80Δ	4	10	0.0	5.5	46nPA			226m		5	C	1	74-44N	DL16br
58	JANM38510/01003CEA		TTL	21	4	2.0*	.80Δ	4	10	0.0	5.5	46nPA			226m		5	C	1	54-44W	FP117
59	JANM38510/01003CEB		TTL	21	4	2.0*	.80Δ	4	10	0.0	5.5	46nPA			226m		5	C	1	74-44N	DL16br
60	JANM38510/01003CFA		TTL	21	4	2.0*	.80Δ	4	10	0.0	5.5	46nPA			226m		5	C	1	74-44N	DL16br
61	JANM38510/01003CFB		TTL	21	4	2.0*	.80Δ	4	10	0.0	5.5	46nPA			226m		5	C	1	74-44N	DL16br
62#	MB74LS42		TTL	21	4	2.0*	.80Δ	4	10	0.0	5.5	46nPA			226m		5	C	1	54-44W	FP117
63#	MB74LS42M		TTL	21	4	2.0*	.80Δ	4	10	0.0	5.0	30nPA			35m†		2	7	1	74-42N	DL16as
64#	MB74LS145		TTL	21	4	2.0*	.80Δ	4	10	0.0	5.0	50nPA			35m†		2	7	1	74-45N	DL16as
65	N7444F		TTL	21	4	2.0*	.80Δ	4	10	0.0	5.0	35nPA			280m	1.0 †	0	7	1	74-44N	DL16aw
66	N7444N		TTL	21	4	2.0*	.80Δ	4	10	0.0	5.0	35nPA			280m		0	7	1	74-44N	DL16bp
67	S5444F		TTL	21	4	2.0*	.80Δ	4	10	0.0	5.0	35nPA			205m		5	C	1	74-44N	DL16aw
68	S5444W		TTL	21	4	2.0*	.80Δ	4	10	0.0	5.0	35nPA			205m	1.0 †	5	C	1	54-44W	FP47g
69	SN5444AJ		TTL	21	4	2.0*	.80Δ	4	10	0.0	5.0	30nPA			140m†	1.0 †	5	C	1	74-44N	DL16v
70	SN5444AW		TTL	21	4	2.0*	.80Δ	4	10	0.0	5.0	30nPA			140m†	1.0 †	5	C	1	54-44W	MO004AG
71	SN7444AJ		TTL	21	4	2.0*	.80Δ	4	10	0.0	5.0	30nPA			140m†	1.0 †	0	7	1	74-44N	DL16v
72	SN7444AN		TTL	21	4	2.0*	.80Δ	4	10	0.0	5.0	30nPA			140m†	1.0 †	0	7	1	74-44N	DL16i
73	AM25LS138DC		TTL	23	18	2.0*	.80Δ			0.0	5.0	27nΔ			50m		0	7			DL16cd
74	AM25LS138DM		TTL	23	18	2.0*	.70Δ			0.0	5.0	27nΔ			50m		5	C			DL16cd
75	AM25LS138FM		TTL	23																	

10. TIME DELAYS

IN ORDER OF: TECHNOLOGY(2) TYPE OF DELAY
(3) LOGIC(1) LOGIC(5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE	LOGIC LEVEL		FAN IN		POWER SUPPLY		PROPAGATION DELAY (S)	RISE TIME (S)	FALL TIME (S)	MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE (C)	CKTS PER MOD	DRAWINGS	
					MIN. (V)	MAX. (V)	IN	OUT MAX.	SPAN NEG. (V)	SPAN POS. (V)								LOGIC OR BLOCK	OUTLINE
					3	4	3	4	3	4								3	4	3	4
1#	OM802#1			5		.25												J05-109	CN71c
2	LM322N			5		1.6		6										J05-100	DL14bt
3	349AL			5		1.8ΔC												J05-107	DL16ad
4	349CL			5		1.8ΔC												J05-107	DL16ad
5	MC1422P1			5		3.5ΔC												J05-112	DL8p
6	JANM38510/10901BPP			5															
7	JANM38510/10901CPB			5		14*	2.8ΔC	4	50	0.0	16.5	300nΔ						J05-119a	DL8x
8#	HEF4528B		CMS	5		9.95*	.05ΔC	3	24	0.0	10	175n						J05-119a	DL8x
9	SCL4528B		CMS	5		9.95*	.05ΔC	3	50	0.0	10	300n		3.0				45-28	DL16cb
10#	HCC4098BD		CMS	5		9.99*	.01ΔC	3		0.0	10	75n		4.5 †				J05-82	DL16ar
11#	HCC4098BF		CMS	5		9.99*	.01ΔC	3		0.0	10	75n		4.5 †				40-98	MO001AE
12#	HCC4098BK		CMS	5		9.99*	.01ΔC	3		0.0	10	75n		4.5 †				40-98	MO001AC
13#	HCC4098BE		CMS	5		9.99*	.01ΔC	3		0.0	10	75n		4.5 †				40-98	MO004AG
14#	HCC4098BF		CMS	5		9.99*	.01ΔC	3		0.0	10	75n		4.5 †				40-98	MO001AC
15	4528BDC		CMS	5		11*	4.0Δ	3	25	0.0	15	45nΔ		9.0m%	6.7 †			45-28	DL16cj
16	4528BDM		CMS	5		11*	4.0Δ	3	25	0.0	15	45nΔ		9.0m%	6.7 †			45-28	DL16cj
17	4528BFC		CMS	5		11*	4.0Δ	3	25	0.0	15	45nΔ		9.0m%	6.7 †			45-28	FP103
18	4528BFM		CMS	5		11*	4.0Δ	3	25	0.0	15	45nΔ		9.0m%	6.7 †			45-28	FP103
19	4528BPC		CMS	5		11*	4.0Δ	3	25	0.0	15	45nΔ		9.0m%	6.7 †			45-28	FP103
20	CD4098BD		CMS	5		11*	4.0Δ	3	18	0.0	15	1.0u	20n#	500m	4.0 *			40-98	MO001AE
21	CD4098BE		CMS	5		11*	4.0Δ	3	18	0.0	15	1.0u	20n#	500m	4.0 *			40-98	MO001AC
22	CD4098BF		CMS	5		11*	4.0Δ	3	18	0.0	15	1.0u	20n#	500m	4.0 *			40-98	MO001AC
23#	HEF4528B		CMS	5		11*	4.0Δ	3	16	0.0	15	80nΔ		400m	6.7 †			J05-82	DLZ
24#	HEF4528BDF		CMS	5		11.0*	4.0Δ	3	16	0.0	15	80nΔ		400m	6.7 †			J05-82	DL16at
25#	HEF4528BPN		CMS	5		11.0*	4.0Δ	3	16	0.0	15	80nΔ		400m	6.7 †			J05-82	DL16cc
26#	HEF4528BTD		CMS	5		11.0*	4.0Δ	5	16	0.0	15	80nΔ		200m	6.7 †			J05-82	FP148
27	MC14528BAL		CMS	5		11*	4.0Δ	3	50	0.0	15	400n	110n	300u	2.5 *			45-28	DL16am
28	MC14528BCL		CMS	5		11*	4.0Δ	3	50	0.0	15	400n	160n	1.2m%	2.5 *			45-28	DL16am
29	MC14528BCP		CMS	5		11*	4.0Δ	3	50	0.0	15	400n	160n	1.2m%	2.5 *			45-28	DL16j
30	MC14538BAL		CMS	5		11*	4.0Δ	3		0.0	15	100n	80n	80n	2.5 *			45-28	DL16am
31	MC14538BCL		CMS	5		11*	4.0Δ	3		0.0	15	100n	80n	80n	2.5 *			45-28	DL16am
32	MC14538BCP		CMS	5		11*	4.0Δ	3		0.0	15	100n	80n	80n	2.5 *			45-28	DL16j
33#	TC4538BP		CMS	5		11*	4.0Δ	3		0.0	15	220nΔ	80n	80n	2.5 *			J05-82	DL14ch
34#	TC4528BP		CMS	5		14.9*	.05ΔC	3		0.0	15	400nΔ	160n	80n	300m	4.0		45-28	DL16cf
35	MM54C221D		CMS	5F		3.5*	1.5Δ	3		5.0	5.0	250n		500m	450m†			74-221	DL16bu
36	MM74C221N		CMS	5F		3.5*	1.5Δ	3		5.0	5.0	250n		500m	450m†			74-221	DL16bu
37	ICM7045AD		CMS	6						4.5				1	2			J07-1B	CHZ
38	ICM7045AID		CMS	6						4.5				1	2			J07-1b	DLZ
39	ICM7045D		CMS	6						4.5				1	2			J07-1	CHZ
40	MC14415EVL		CMS	6		3.0*	.01ΔC	4		0.0	5.0	1.2uΔ	85n	150n	250u%	2.2 †		45-15	DL16am
41	MC14415VL		CMS	6		3.0*	.01ΔC	4		0.0	5.0	1.2uΔ	85n	150n	250u%	2.2 †		45-15P	DL16am
42	MC14415VP		CMS	6		3.0*	.01ΔC	4		0.0	5.0	1.2uΔ	85n	150n	250u%	2.2 †		45-15P	DL16j
43	MC14415EFL		CMS	6		8.0*	.01ΔC	4		0.0	10	600nΔ	60n	80n	1.0m%	4.5 †		45-15P	DL16am
44	MC14415FL		CMS	6		8.0*	.01ΔC	4		0.0	10	600nΔ	60n	80n	1.0m%	4.5 †		45-15P	DL16j
45	MC14415FP		CMS	6		8.0*	.01ΔC	4		0.0	10	600nΔ	60n	80n	1.0m%	4.5 †		45-15P	DL16j
46	CD4045AD		CMS	6		10	0.0C			0.0	10	2.4uΔ	10u	10u	250u%	4.5 †		40-45	MO001AE
47	CD4045AE		CMS	6		10	0.0C			0.0	10	3.4uΔ	10u	10u	250u%	4.5 †		40-45	MO001AC
48	CD4045AF		CMS	6		10	0.0C			0.0	10	2.4uΔ	10u	10u	250u%	4.5 †		40-45	MO001AC
49#	HBC4045AD		CMS	6		10	0.0C	3	21	0.0	10			200m	3.0 *			40-45	DL16aq
50#	HBC4045AF		CMS	6		10	0.0C	3	21	0.0	10			200m	3.0 *			40-45	DL16aq
51#	HBC4045AK		CMS	6		10	0.0C	3	21	0.0	10			200m	3.0 *			40-45	FP131
52#	HBF4045AE		CMS	6		10	0.0C	3	21	0.0	10			200m	3.0 *			40-45	DL16bj
53#	HBF4045AF		CMS	6		10	0.0C	3	21	0.0	10			200m	3.0 *			40-45	DL16aq
54	CD4045BD		CMS	6		11*	4.0Δ	3	261	0.0	15	1.0u	40n#	500m	4.0 *			40-45	MO001AE
55	CD4045BE		CMS	6		11*	4.0Δ	3	261	0.0	15	1.0u	40n#	500m	4.0 *			40-45	MO001AC
56	CD4045BF		CMS	6		11*	4.0Δ	3	261	0.0	15	1.0u	40n#	500m	4.0 *			40-45	MO001AG
57	CD4045BH		CMS	6		11*	4.0Δ	3	261	0.0	15	1.0u	40n#	500m	4.0 *			40-45	MO001AG
58	MC14536BAL		CMS	6		11*	4.0Δ	5	18	0.0	15	130n	80n	2.5 *			45-36B	DL16am	
59	MC14536BCL		CMS	6		11*	4.0Δ	5	18	0.0	15	130n	80n	2.5 *			45-36B	DL16am	
60	MC14536BCP		CMS	6		11*	4.0Δ	5	16	0.0	15	130n	80n	2.5 *			45-36B	DL16bo	
61	MC14541BAL		CMS	6		11*	4.0Δ			0.0	15	130n	80n	2.5 *			45-11B	DL14ci	
62	MC14541BCL		CMS	6		11*	4.0Δ			0.0	15	130n	80n	2.5 *			45-11B	DL14ci	
63	MC14541BCP		CMS	6		11*	4.0Δ			0.0	15	130n	80n	2.5 *			45-11B	DL14ci	
64	MC14416L		CMS	6.0		9.6	2.4			0.5	18	80n	200n	200n	4.8			J06-15	
65	MC14416P		CMS	6.0		9.6	2.4			0.5	18	80n	200n	200n	4.8			J06-15	
66	MC14418L		CMS	6.0		9.6	2.4			0.5	18	80n	200n	200n	4.8			J06-16	
67	MC14418P		CMS	6.0		9.6	2.4			0.5	18	80n	200n	200n	4.8			J06-16	
68	ICM7045AIP		CMS	7						0.0	3.6			7.2m%	2	7		J07-01a	DL28d
69	ICM7045IPI		CMS	7						0.0	3.6			90m%	2	7		J07-0	DL28j
70	ICM7555IPA		CMS	7						0.0	15			200m	2	7		J07-02	DL8aa
71	ICM7555ITTY		CMS	7						0.0	15			40n†	2	7		J07-02	CN46b
72	ICM7555ITTY		CMS	7						0.0	15			40n†	2	7		J07-02	CN46b
73	ICM7555IPD		CMS	7						0.0	15			40n†	2	7			

10. TIME DELAYS

IN ORDER OF TECHNOLOGY (2) TYPE OF DELAY
(3) LOGIC (1) (4) LOGIC (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE	LOGIC LEVEL		FAN		POWER SUPPLY		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS		
					3 MIN. (V)	4 MAX (V)	IN	OUT MAX.	NEG. (V)	POS. (V)		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE	
1	342AL		DTL	5	6.5Δ	5.0*	5	5	0.0	15	260nΔ			345m†	3.2	3	7	2	J05-49	DL16ad
2	342CJ		DTL	5	6.5Δ	5.0*	5	5	0.0	12	140nΔ			200m	5.0 †	3	8	2	J05-49	DL16bq
3	342CL		DTL	5	6.5Δ	5.0*	5	5	0.0	12	260nΔ			204m†	3.5	3	8	2	J05-49	DL16ad
4	347AL		DTL	5	6.5Δ	5.0*	5	5	0.0	15	750n			800m	3.2	3	7	2	J05-102	DL16ad
5	347CL		DTL	5	6.5Δ	5.0*	5	5	0.0	12	750n			800m	3.5	3	8	2	J05-102	DL16ad
6#	FZK101		DTL	5	7.5*	4.5Δ	12	10	0.0	12	180n			228m	5.0 †	0	7	1	J05-103	DL16k
7#	FZK105		DTL	5	7.5*	4.5Δ	12	10	0.0	12	180n			228m	5.0 †	2	8	1	J05-103	DL16k
8#	TU30		DTL	5	9.3*	7.3Δ	2	2	0.0	17		110n†	50n†	300m		2	7	1	J05-111	MD20A
9#	FCK111		DTL	5S	2.2*	1.0Δ	2	14	0.0	6.0	200nΔ			98m†		0	7	1	J05-87	DL14s
10	355CJ		DTL	7	9.0*	2.0ΔC	4	4	0.0	12	330n			320m		0	7	1	J05-99	DL8j
11	355CL		DTL	7	9.0*	2.0ΔC	4	4	0.0	12	330n			320m		0	7	1	J05-99	DL8s
12	355AJ		DTL	7	12*	2.0ΔC	4	4	0.0	15	330n			320m		0	7	1	J05-99	DL8j
13	355AL		DTL	7	12*	2.0ΔC	4	4	0.0	15	330n			320m		0	7	1	J05-99	DL8s
14	MC10198L		ECT	5	-96*	1.6ΔC			5.2	0.0	10n	3.5n	3.5n	520m		3	8	1	J05-116	DL16am
15	MC10198P		ECT	5	-96*	1.6ΔC			5.2	0.0	10n	3.5n	3.5n	520m		3	8	1	J05-116	DL16bo
16#	TC5043P		MOS	3	6.0	0.4*			0.0	7.0				300m	1.4	4	8	1	J02-5	DL2j
17#	MN3307		NCH	3					0.3	6.0	51mΔ	500n	500n			2	6	1	J03-16	DL8f
18#	MN3204		NCH	3					0.0	5.0	25mΔ					2	6	1	J03-12	DL8f
19#	MN3206		NCH	3					0.0	5.0	6.4mΔ					2	7	1	J03-7	DL8f
20#	MN3207#		NCH	3					0.0	5.0	51mΔ					2	6	1	J03-8	DL8f
21#	MN3209		NCH	3					0.0	5.0	12mΔ					2	6	1	J03-8	DL8f
22#	MN3210		NCH	3					0.0	5.0	51mΔ					2	6	2	J03-14	DL14as
23	Z80ACTCCE#2		NCH	7	2.0	.80			0.0	5.0		30n	30n			4	8	4	J07-05	DL28c
24	Z80ACTCCM#2		NCH	7	2.0	.80			0.0	5.0		30n	30n			5	C	4	J07-05	DL28c
25	Z80ACTCCS#2		NCH	7	2.0	.80			0.0	5.0		30n	30n			0	7	4	J07-05	DL28c
26	Z80ACTCPS#2		NCH	7	2.0	.80			0.0	5.0		30n	30n			0	7	4	J07-05	DL28d
27	Z80ACTCCE#2		NCH	7	2.0	.80			0.0	5.0		30n	30n			4	8	4	J07-05	DL28c
28	Z80ACTCCM#2		NCH	7	2.0	.80			0.0	5.0		30n	30n			5	C	4	J07-05	DL28c
29	Z80ACTCCS#2		NCH	7	2.0	.80			0.0	5.0		30n	30n			0	7	4	J07-05	DL28c
30	Z80ACTCPS#2		NCH	7	2.0	.80			0.0	5.0		30n	30n			0	7	4	J07-05	DL28d
31#	MN3011		PCH	2					15	0.0	1.9m	500n	500n			2	6	1	J03-11	DL12a
32#	MN3003		PCH	3					9.0	0.0	6.4m					2	6	2	J03-4	DL14as
33#	MN3004		PCH	3					15	0.0	25m	500n	500n			2	6	1	J03-5	DL14as
34#	MN3005		PCH	3					15	0.0	204m	500n	500n			2	6	1	J03-6	DL8u
35#	MN3006		PCH	3					15	0.0	6.4m	500n	500n			2	6	1	J03-7	DL8f
36#	MN3007		PCH	3					15	0.0	51mΔ	500n	500n			2	6	1	J03-8	DL8f
37#	MN3008		PCH	3					15	0.0	102m	500n	500n			2	6	1	J03-9	DL8u
38#	MN3009		PCH	3					15	0.0	12m	500n	500m			2	6	1	J03-8a	DL8f
39#	MN3010		PCH	3					15	0.0	2.5m	500n	500n			2	6	2	J03-10	DL14Z
40#	MN3012		PCH	3					18	0.0	47m	500n	500n			2	6	3	J03-12	DL14as
41	LS7210		PCH	7			1		0.0	15.0	1.6uΔ					2	7	1	J06-14	DL14Z
42	WD55A		PCH	7	3.5	1.5			0.0	13					2.5	0	5	1	J07-10	DL40j
43	WD55B		PCH	7	9.4*	4.2Δ			0.0	13					2.5	0	5	1	J07-10	DL40k
44#	SA558F		RCT	5			10		0.0	16.0		100n	100n	1.3		4	8	4	L00-95	
45#	SA558N		RCT	5			10		0.0	16.0		100n	100n	1.3		4	8	4	L00-95	
46#	SE558F		RCT	5			10		0.0	16.0		100n	100n	1.3		4	8	4	L00-95	
47#	SE558N		RCT	5			10		0.0	18.0		100n	100n	1.3		5	C	4	L00-95	
48	LCE306		RTL	5	6.0	0.0C			6.0	12	25n	50n	60n	40m		4	A	1	J05-25	CN27
49	LCE406		RTL	5	6.0	0.0C			6.0	12	25n			200m		4	A	1	J05-26	MD2A
50	LCE506		RTL	5	6.0	0.0C			6.0	12	25n					3	8	1		MD2A
51	LCE706		RTL	5	6.0	0.0C			6.0	12	30n					1	6	1		MD2A
52	LM556CJ		TTL	1	12.7*	2.5ΔC	4	50	0.0	15		100n†	100n†	225m%		0	7	1	J05-120	DL14az
53	LM556CN		TTL	1	12.7*	2.5ΔC	4	50	0.0	15		100n†	100n†	225m%		0	7	1	J05-120	DL14bt
54	LM556J		TTL	1	13*	2.2ΔC	4	50	0.0	15		100n†	100n†	180m%		5	C	1	J05-120	DL14az
55	62Z03A001H		TTL	1			1				1.0n	3.0n				0	7	1	J01-1	MD3A
56	62Z03A002H		TTL	1			1				2.0n	3.0n				0	7	1	J01-1	MD3A
57	62Z03A003H		TTL	1			1				3.0n	3.0n				0	7	1	J01-1	MD3A
58	62Z03A004H		TTL	1			1				4.0n	3.5n				0	7	1	J01-1	MD3A
59	62Z03A005H		TTL	1			1				5.0n	3.5n				0	7	1	J01-1	MD3A
60	62Z03A006H		TTL	1			1				6.0n	3.5n				0	7	1	J01-1	MD3A
61	62Z03A007H		TTL	1			1				7.0n	4.0n				0	7	1	J01-1	MD3A
62	62Z03A008H		TTL	1			1				8.0n	4.0n				0	7	1	J01-1	MD3A
63	62Z03A009H		TTL	1			1				9.0n	4.5n				0	7	1	J01-1	MD3A
64	62Z03A010H		TTL	1			1				10n	4.5n				0	7	1	J01-1	MD3A
65	62Z07A005H		TTL	2			1				5.0n	2.0n				0	7	5	J02-3	MD7A
66	62Z07A010H		TTL	2			1				10n	3.3n				0	7	5	J02-3	MD7A
67	62Z07A020F		TTL	2			1				20n	6.0n				0	7	5	J02-3	MD7A
68	62Z07A020H		TTL	2			1				20n	6.0n				0	7	5	J02-3	MD7A
69	62Z07A025F		TTL	2			1				25n	7.8n				0	7	5	J02-3	MD7A
70	62Z07A025H		TTL	2			1				25n	7.8n				0	7	5	J02-3	MD7A
71	62Z07A030F		TTL	2			1				30n	9.0n				0	7	5	J02-3	MD7A
72	62Z07A030H		TTL	2			1				30n	9.0n				0	7	5	J02-3	MD7A
73	62Z07A040F		TTL	2			1				40n	12n				0	7	5	J02-3	MD7A
74	62Z07A040H		TTL	2			1				40n	11n				0	7	5	J02-3	MD7A
75	62Z07A050F		TTL	2			1				50n	15n				0	7	5	J02-3	MD7A
76	62Z07A050H		TTL	2			1				50n	14n				0	7	5	J02-3	MD7A
77	62Z07A060H		TTL	2			1				60n	18n				0	7	5	J02-3	MD7A
78	62Z07A070H		TTL	2			1				70n	22n				0	7	5	J02-3	MD7A
79	62Z07A075H		TTL	2			1				75n	22n				0	7	5	J02-3	MD7A
80	62Z07A080H		TTL	2			1				80n	24n				0	7	5	J02-3	MD7A
81	62Z07A090H		TTL	2			1				90n	27n				0	7	5	J02-3	MD7A
82	62Z07A100H		TTL	2			1				100n	28n				0	7	5	J02-3	MD7A
83	62Z14A010F		TTL	2			1				10n	1.7n				0	7	10	J02-4	MD14F
84	62Z14A010H		TTL	2			1				10n	1.7n				0	7	10	J02-4	MD14F
85	62Z14A010T		TTL	2			1				10n									

10. TIME DELAYS

IN ORDER OF TECHNOLOGY (2) TYPE OF DELAY
(3) LOGIC (1) (4) LOGIC (0) (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE	LOGIC LEVEL		FAN		POWER SUPPLY SPAN	PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS				
					3 MIN. '1' (V)	4 MAX '0' (V)	IN	OUT MAX.			RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE			
1	62214A090F		TTL	2						90n	15n				0	7	10	J02-4	MD14F		
2	62214A100F		TTL	2						100n	17n				0	7	10	J02-4	MD14F		
3	62214A100H		TTL	2						100n	17n				0	7	10	J02-4	MD14F		
4	62214A100T		TTL	2						100n	17n				0	7	10	J02-4	MD14F		
5	62214A150F		TTL	2						150n	25n				0	7	10	J02-4	MD14F		
6	62214A150H		TTL	2						150n	25n				0	7	10	J02-4	MD14F		
7	62214A200F		TTL	2						200n	34n				0	7	10	J02-4	MD14F		
8	62214A200H		TTL	2						200n	34n				0	7	10	J02-4	MD14F		
9	62214A250F		TTL	2						250n	42n				0	7	10	J02-4	MD14F		
10	62214A250H		TTL	2						250n	42n				0	7	10	J02-4	MD14F		
11	6207A005F		TTL	2						5.0n	2.0n				0	7	5	J02-3	MD7A		
12	6207A010F		TTL	2						10n	3.2n				0	7	5	J02-3	MD7A		
13	61Z14A025		TTL	2		2.0	0.8	1	10	0.0	5.5	25n	4.0n		0	7	5	J02-1	MD14E		
14	61Z14A030		TTL	2		2.0	0.8	1	10	0.0	5.5	30n	4.0n		0	7	5	J02-1	MD14E		
15	61Z14A035		TTL	2		2.0	0.8	1	10	0.0	5.5	35n	4.0n		0	7	5	J02-1	MD14E		
16	61Z14A040		TTL	2		2.0	0.8	1	10	0.0	5.5	40n	4.0n		0	7	5	J02-1	MD14E		
17	61Z14A045		TTL	2		2.0	0.8	1	10	0.0	5.5	45n	4.0n		0	7	5	J02-1	MD14E		
18	61Z14A050		TTL	2		2.0	0.8	1	10	0.0	5.5	50n	4.0n		0	7	5	J02-1	MD14E		
19	61Z14A075		TTL	2		2.0	0.8	1	10	0.0	5.5	75n	4.0n		0	7	5	J02-1	MD14E		
20	61Z14A100		TTL	2		2.0	0.8	1	10	0.0	5.5	100n	4.0n		0	7	5	J02-1	MD14E		
21	61Z14A150		TTL	2		2.0	0.8	1	10	0.0	5.5	150n	4.0n		0	7	5	J02-1	MD14E		
22	61Z14A200		TTL	2		2.0	0.8	1	10	0.0	5.5	200n	4.0n		0	7	5	J02-1	MD14E		
23	61Z14A250		TTL	2		2.0	0.8	1	10	0.0	5.5	250n	4.0n		0	7	5	J02-1	MD14E		
24	61Z14A300		TTL	2		2.0	0.8	1	10	0.0	5.5	300n	4.0n		0	7	5	J02-1	MD14E		
25	61Z14A400		TTL	2		2.0	0.8	1	10	0.0	5.5	400n	4.0n		0	7	5	J02-1	MD14E		
26	61Z14A500		TTL	2		2.0	0.8	1	10	0.0	5.5	500n	4.0n		0	7	5	J02-1	MD14E		
27	61Z16A025		TTL	2		2.0	0.8	1	10	0.0	5.5	25n	4.0n		0	7	5	J02-2	MD16A		
28	61Z16A030		TTL	2		2.0	0.8	1	10	0.0	5.5	30n	4.0n		0	7	5	J02-2	MD16A		
29	61Z16A035		TTL	2		2.0	0.8	1	10	0.0	5.5	35n	4.0n		0	7	5	J02-2	MD16A		
30	61Z16A040		TTL	2		2.0	0.8	1	10	0.0	5.5	40n	4.0n		0	7	5	J02-2	MD16A		
31	61Z16A045		TTL	2		2.0	0.8	1	10	0.0	5.5	45n	4.0n		0	7	5	J02-2	MD16A		
32	61Z16A050		TTL	2		2.0	0.8	1	10	0.0	5.5	50n	4.0n		0	7	5	J02-2	MD16A		
33	61Z16A075		TTL	2		2.0	0.8	1	10	0.0	5.5	75n	4.0n		0	7	5	J02-2	MD16A		
34	61Z16A100		TTL	2		2.0	0.8	1	10	0.0	5.5	100n	4.0n		0	7	5	J02-2	MD16A		
35	61Z16A150		TTL	2		2.0	0.8	1	10	0.0	5.5	150n	4.0n		0	7	5	J02-2	MD16A		
36	61Z16A200		TTL	2		2.0	0.8	1	10	0.0	5.5	200n	4.0n		0	7	5	J02-2	MD16A		
37	61Z16A250		TTL	2		2.0	0.8	1	10	0.0	5.5	250n	4.0n		0	7	5	J02-2	MD16A		
38	61Z16A300		TTL	2		2.0	0.8	1	10	0.0	5.5	300n	4.0n		0	7	5	J02-2	MD16A		
39	61Z16A400		TTL	2		2.0	0.8	1	10	0.0	5.5	400n	4.0n		0	7	5	J02-2	MD16A		
40	61Z16A500		TTL	2		2.0	0.8	1	10	0.0	5.5	500n	4.0n		0	7	5	J02-2	MD16A		
41 #	TDB2608DP #ai		TTL	3.0		8.0	7.0			0	35			600m		1	1	J03-15	DL14cy		
42 #	TDE2608DP #ai		TTL	3.0		8.0	7.0			0	40			600m		1	1	J03-15	DL14cy		
43	SN541121J		TTL	4		2.0*	.80Δ	3	20	0.0	5.0	160nΔ		35m%	1.2 †	5	1	74-121	DL14af		
44	SN541121W		TTL	4		2.0*	.80Δ	3	20	0.0	5.0	160nΔ		35m%	1.2 †	5	1	54-121	FP52e		
45	SN29601J		TTL	4		2.0*	.80Δ	4	20	0.0	5.0	40nΔ		115m%		0	7	1	J04-38	DL14af	
46	SN29601N		TTL	4		2.0*	.80Δ	4	20	0.0	5.0	40nΔ		115m%		0	7	1	J04-38	DL14r	
47 #	ZN1010E		TTL	4		2.0*	.80Δ	3	10	0.0	5.25	35n				5	1	J04-42	DL14f		
48 #	ZN1010F		TTL	4		2.0*	.80Δ	3	10	0.0	5.25	35n				5	1	J04-42	TO86		
49	951HM		TTL	4.5		2.0*	.85Δ	4	20	0.0	5.0	5.0				5	1	J04-33	TO100		
50 #	M53322P		TTL	4.5		2.0*	.80Δ	5	10	0.0	5.0	65n		147m	1.0	0	7	1	74-122	DL14d	
51 #	SFC4122E		TTL	4.5		2.0*	.80Δ	5	10	0.0	5.0	40nΔ		154m	1.0	0	7	1	74-122	TO116	
52 #	SFC4122EM		TTL	4.5		2.0*	.80Δ	5	10	0.0	5.0	40nΔ		154m	1.0	0	7	1	74-122	TO116	
53 #	SFC4122ET		TTL	4.5		2.0*	.80Δ	5	10	0.0	5.0	40nΔ		154m	1.0	0	7	1	74-122	TO116	
54 #	SFC4122PM		TTL	4.5		2.0*	.80Δ	5	10	0.0	5.0	40nΔ		154m	1.0	0	7	1	54-122	TO85	
55 #	M53322P		TTL	4.5		2.0*	.80Δ	3	10	0.0	5.0	65n		347m	1.0	0	7	2	54-122	DL16u	
56	54123DM		TTL	4.5		2.0*	.80Δ	3	10	0.0	5.0	45n		363m	1.0	0	7	2	74-123	DL16cj	
57	54123FM		TTL	4.5		2.0*	.80Δ	3	10	0.0	5.0	45n		330m%	1.0	0	7	2	54-123	FP103	
58	74123DC		TTL	4.5		2.0*	.80Δ	3	10	0.0	5.0	45n		330m%	1.0	0	7	2	74-123	DL16cj	
59	74123PC		TTL	4.5		2.0*	.80Δ	3	10	0.0	5.0	45n		330m%	1.0	0	7	2	74-123	DL16bd	
60	AM26123DC		TTL	4.5		2.0*	.80Δ	3	10	0.0	5.0	65nΔ		347m	1.0	0	7	2	74-123	DL16bd	
61	AM26123DM		TTL	4.5		2.0*	.80Δ	3	10	0.0	5.0	65nΔ		347m	1.0	0	7	2	74-123	DL16bd	
62	AM26123FM		TTL	4.5		2.0*	.80Δ	3	10	0.0	5.0	65nΔ		347m	1.0	0	7	2	54-123	FP79b	
63	AM26123PC		TTL	4.5		2.0*	.80Δ	3	10	0.0	5.0	65nΔ		347m	1.0	0	7	2	74-123	DL16ce	
64 #	SFC4123E		TTL	4.5		2.0*	.80Δ	5	20	0.0	5.0	40nΔ	40n#		363m	1.0	0	7	2	74-123	DL16a
65 #	SFC4123EM		TTL	4.5		2.0*	.80Δ	5	20	0.0	5.0	40nΔ	40n#		363m	1.0	0	7	2	74-123	DL16a
66 #	SFC4123ET		TTL	4.5		2.0*	.80Δ	5	20	0.0	5.0	40nΔ	40n#		363m	1.0	0	7	2	74-123	DL16a
67	DM74123N		TTL	4.5		2.4	.40	3	10	0.0	5.0	65n		363m	1.0	0	7	2	74-123	DL16bu	
68	DM74123N		TTL	4.5		2.4	.40	3	10	0.0	5.0	65n		363m	1.0	0	7	2	74-123	DL16bu	
69 #	MB440		TTL	4.5		2.4*	.40ΔC	3	10	0.0	5.0	220m†				0	7	2	74-123	DL16ak	
70 #	MB440		TTL	4.5		2.4*	.40ΔC	3	10	0.0	5.0	220m†				0	7	2	74-123	DL16ak	
71	SN54122J		TTL	4.5		2.4	.40	5	10	0.0	5.0	40nΔ		140m%	1.0	0	7	1	74-122	DL14af	
72	SN54122W		TTL	4.5		2.4	.40	5	10	0.0	5.0	40nΔ		140m%	1.0	0	7	1	54-122	MO004AA	
73	SN54123J		TTL	4.5		2.4	.40	3	10	0.0	5.0	40nΔ		330m%	1.0	0	7	2	74-123	DL16v	
74	SN54123W		TTL	4.5		2.4	.40	3	10	0.0	5.0	40nΔ		330m%	1.0	0	7	2	54-123	MO004AG	
75	SN74122J		TTL	4.5		2.4	.40	5	10	0.0	5.0	40nΔ		140m%	1.0	0	7	1	74-122	DL14af	
76	SN74122N		TTL	4.5		2.4	.40	5	10	0.0	5.0	40nΔ		140m%	1.0	0	7	1	74-122	DL14r	
77	SN74123J		TTL	4.5		2.4	.40	3	10	0.0	5.0	40nΔ		330m%	1.0	0	7	2	74-123	DL16v	
78	SN74123N		TTL	4.5		2.4	.40	3	10	0.0	5.0	40nΔ		330m%	1.0	0	7	2	74-123	DL16i	
79 #	ZN54122E		TTL	4.5		2.4	.40	5	10	0.0	5.0	65n		154m	1.0 †	5	1	74-122	TO116		
80 #	ZN54122J		TTL	4.5		2.4	.40	5	10	0.0	5.0	65n		154m	1.0 †	5	1	74-122	DL14ap		
81 #	ZN54123E																				

10. TIME DELAYS

IN ORDER OF: TECHNOLOGY (2) TYPE OF DELAY
(3) LOGIC (1) (4) LOGIC (1) (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	ID TYPE	LOGIC LEVEL		FAN		POWER SUPPLY SPAN		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	PKTS PER MOD	DRAWINGS		
					3 | MIN. '1' (V)	4 | MAX '0' (V)	IN	OUT MAX.	NEG. (V)	POS. (V)		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE	
1	AM2600DM		TTL	5	1.7*	90Δ	5		0.0	5.0	75nΔ			130m%		5	C	1	J05-86	DL14bj
2	AM2600FM		TTL	5	1.7*	90Δ	5		0.0	5.0	75nΔ			130m%		5	C	1	J05-86	FP106
3	AM2602DM		TTL	5	1.7*	90Δ	2	16	0.0	5.0	75nΔ			250m%	1.0	5	C	2	45-28	DL16bd
4	AM2602FM		TTL	5	1.7*	90Δ	2	16	0.0	5.0	75nΔ			250m%	1.0	5	C	2	45-28	FP79b
5	DM8601J		TTL	5	1.7*	90Δ	4		0.0	5.0	65nΔ			125m%		5	C	1	J04-38	DL14ax
6	DM9601N		TTL	5	1.7*	90Δ	4		0.0	5.0	65nΔ			125m%		5	C	1	J04-38	DL14bt
7	DM9601W		TTL	5	1.7*	90Δ	4		0.0	5.0	65nΔ			125m%		5	C	1	J04-38	FP97a
8	DM9602J		TTL	5	1.7*	90Δ	5		0.0	5.0	100nΔ			225m%		5	C	2	45-28	DL16ai
9	DM9602N		TTL	5	1.7*	90Δ	5		0.0	5.0	100nΔ			225m%		5	C	2	45-28	DL16bu
10	DM9602W		TTL	5	1.7*	90Δ	5		0.0	5.0	100nΔ			225m%		5	C	2	45-28	FP88a
11	9600DC		TTL	5	1.8*	85Δ	5		0.0	5.0	80nΔ			120m%		0	7	1	J05-86	DL14bj
12	9600PC		TTL	5	1.8*	85Δ	5		0.0	5.0	80nΔ			120m%		0	7	1	J05-86	DL14bu
13	9601DC		TTL	5	1.8*	85Δ	4	12	0.0	5.0	75nΔ			100m%		0	7	1	J04-38	DL14bj
14	9601PC		TTL	5	1.8*	85Δ	4	12	0.0	5.0	75nΔ			100m%		0	7	1	J04-38	DL14bu
15	AM2600DC		TTL	5	1.8*	85Δ	5		0.0	5.0	75nΔ			120m%		0	7	1	J05-86	DL14bj
16	AM2600PC		TTL	5	1.8*	85Δ	5		0.0	5.0	75nΔ			120m%		0	7	1	J05-86	DL14bu
17	AM2602DC		TTL	5	1.8*	85Δ	2	16	0.0	5.0	80nΔ			225m%	1.0	0	7	2	45-28	DL16bd
18	AM2602PC		TTL	5	1.8*	85Δ	2	16	0.0	5.0	80nΔ			225m%	1.0	0	7	2	45-28	DL16ce
19	DM8601J		TTL	5	1.8*	85Δ	4		0.0	5.0	65nΔ			125m%		0	7	1	J04-38	DL14ax
20	DM8601N		TTL	5	1.8*	85Δ	4		0.0	5.0	65nΔ			125m%		0	7	1	J04-38	DL14bt
21	DM8601W		TTL	5	1.8*	85Δ	4		0.0	5.0	65nΔ			125m%		0	7	1	J04-38	FP97a
22	DM8602J		TTL	5	1.8*	85Δ	5		0.0	5.0	110nΔ			250m%		0	7	2	45-28	DL16ai
23	DM8602N		TTL	5	1.8*	85Δ	5		0.0	5.0	110nΔ			250m%		0	7	2	45-28	DL16bu
24	DM8602W		TTL	5	1.8*	85Δ	5		0.0	5.0	110nΔ			250m%		0	7	2	45-28	FP88a
25	9602DC		TTL	5	1.9*	85Δ	3	7	0.0	5.0	100n			260m%	400m	0	7	2	45-28	DL16cj
26	9602PC		TTL	5	1.9*	85Δ	3	7	0.0	5.0	100n			260m%		0	7	2	45-28	*
27	N8T22F		TTL	5	1.9*	90Δ	4	8	0.0	5.0	45n			125m		0	7	1	74-122	DL14bh
28	N8T22N		TTL	5	1.9*	90Δ	4	8	0.0	5.0	45n			125m		0	7	1	74-122	DL14br
29	S8T22F		TTL	5	1.9*	90Δ	4	8	0.0	5.0	45n			125m		5	C	1	74-122	DL14bh
30	S8T22N		TTL	5	1.9*	90Δ	4	8	0.0	5.0	45n			125m		5	C	1	74-122	DL14br
31	96L02DC		TTL	5	2.0*	70Δ	3	6	0.0	5.0	110n			80m%	300m	0	7	2	45-28	DL16cj
32	96L02DM		TTL	5	2.0*	70Δ	3	6	0.0	5.0	110n			80m%	300m	5	C	2	45-28	DL16cj
33	96L02FM		TTL	5	2.0*	70Δ	3	6	0.0	5.0	110n			80m%	300m	5	C	2	45-28	FP103
34	96L02PC		TTL	5	2.0*	70Δ	3	6	0.0	5.0	110n			80m%	300m	0	7	2	45-28	*
35	96LS02DM		TTL	5	2.0*	70Δ	3	11	0.0	5.0	38n			180m%		5	C	2	45-28	DL16cj
36	96LS02FM		TTL	5	2.0*	70Δ	3	11	0.0	5.0	38n			180m%		5	C	2	45-28	FP103
37	AM26L02DC		TTL	5	2.0*	70Δ	2		0.0	5.0	110n			80m%	1.0	0	7	2	45-28	DL16bd
38	AM26L02DM		TTL	5	2.0*	70Δ	2		0.0	5.0	110n			80m%	1.0	5	C	2	45-28	DL16bd
39	AM26L02FM		TTL	5	2.0*	70Δ	2		0.0	5.0	110n			80m%	1.0	5	C	2	45-28	FP79b
40	AM26L02PC		TTL	5	2.0*	70Δ	2		0.0	5.0	110n			80m%	1.0	0	7	2	45-28	DL16ce
41	JANM38510/31401BEA		TTL	5	2.0*	70Δ	3	11	0.0	5.5	308nΔ			110m	300m*	5	C	2	74-123	DL16br
42	JANM38510/31401BEB		TTL	5	2.0*	70Δ	3	11	0.0	5.5	308nΔ			220m	300m*	5	C	2	74-123	DL16br
43	JANM38510/31401BFA		TTL	5	2.0*	70Δ	3	11	0.0	5.5	308nΔ			110m	300m*	5	C	2	54-123	FP117
44	JANM38510/31401CEA		TTL	5	2.0*	70Δ	3	11	0.0	5.5	308nΔ			110m	300m*	5	C	2	74-123	DL16br
45	JANM38510/31401CEB		TTL	5	2.0*	70Δ	3	11	0.0	5.5	308nΔ			220m	300m*	5	C	2	74-123	DL16br
46	JANM38510/31401CFA		TTL	5	2.0*	70Δ	3	11	0.0	5.5	308nΔ			110m	300m*	5	C	2	54-123	FP117
47	JANM38510/31402BEB		TTL	5	2.0*	70Δ	3	11	0.0	5.5	20n			298m	300m*	5	C	2	74-221	DL16br
48	JANM38510/31402CEB		TTL	5	2.0*	70Δ	3	11	0.0	5.5	20n			298m	300m*	5	C	2	74-221	DL16br
49	JANM38510/31403BAA		TTL	5	2.0*	70Δ	5	11	0.0	5.5	308nΔ			61m	300m*	5	C	1	54-122	FP115
50	JANM38510/31403BAB		TTL	5	2.0*	70Δ	5	11	0.0	5.5	308nΔ			61m	300m*	5	C	1	54-122	FP115
51	JANM38510/31403BCA		TTL	5	2.0*	70Δ	5	11	0.0	5.5	308nΔ			61m	300m*	5	C	1	74-122	DL14bo
52	JANM38510/31403BCB		TTL	5	2.0*	70Δ	5	11	0.0	5.5	308nΔ			61m	300m*	5	C	1	74-122	DL14bo
53	JANM38510/31403CAA		TTL	5	2.0*	70Δ	5	11	0.0	5.5	308nΔ			61m	300m*	5	C	1	54-122	FP115
54	JANM38510/31403CAB		TTL	5	2.0*	70Δ	5	11	0.0	5.5	308nΔ			61m	300m*	5	C	1	54-122	FP115
55	JANM38510/31403CCA		TTL	5	2.0*	70Δ	5	11	0.0	5.5	308nΔ			61m	300m*	5	C	1	74-122	DL14bo
56	JANM38510/31403CCB		TTL	5	2.0*	70Δ	5	11	0.0	5.5	308nΔ			61m	300m*	5	C	1	74-122	DL14bo
57	96LS02DC		TTL	5	2.0*	80Δ	3	22	0.0	5.0	38n			180m%		0	7	2	45-28	DL16cj
58	96LS02PC		TTL	5	2.0*	80Δ	3	22	0.0	5.0	38n			180m%		0	7	2	45-28	*
59	96S02DC		TTL	5	2.0*	80Δ	3	10	0.0	5.0	27n			350m%	300m	0	7	2	45-28	DL16cj
60	96S02PC		TTL	5	2.0*	80Δ	3	10	0.0	5.0	27n			350m%	300m	0	7	2	45-28	*
61	54122DM		TTL	5	2.0*	80Δ	5	10	0.0	5.0	65n			140m	1.0	5	C	1	74-122	TO116
62	54122FM		TTL	5	2.0*	80Δ	5	10	0.0	5.0	65n			140m	1.0	5	C	1	54-122	FP21h
63	74122DC		TTL	5	2.0*	80Δ	5	10	0.0	5.0	65n			140m	1.0	0	7	1	74-122	TO116
64	74122PC		TTL	5	2.0Δ	80*	5	10	0.0	5.0	65n			140m		0	7	1	74-122	TO116
65	AM26S02DC		TTL	5	2.0*	80Δ	3		0.0	5.0	23nΔ			375m		0	7	2	45-28	DL16cd
66	AM26S02DM		TTL	5	2.0*	80Δ	3		0.0	5.0	23nΔ			375m		5	C	2	45-28	DL16cd
67	AM26S02FM		TTL	5	2.0*	80Δ	3		0.0	5.0	23nΔ			375m		5	C	2	45-28	FP79b
68	AM26S02PC		TTL	5	2.0*	80Δ	3		0.0	5.0	23nΔ			375m		0	7	2	45-28	DL16ce
69	DM7853J		TTL	5	2.0*	80Δ	3		0.0	5.0	100nΔ			360m%		5	C	2	74-123	DL16ai
70	DM7853W		TTL	5	2.0*	80Δ	3		0.0	5.0	100nΔ			360m%		5	C	2	54-123	FP88a
71	DM8853J		TTL	5	2.0*	80Δ	3		0.0	5.0	110nΔ			360m%		0	7	2	74-123	DL16ai
72	DM8853N		TTL	5	2.0*	80Δ	3		0.0	5.0	110nΔ			360m%		0	7	2	74-123	DL16bu
73	DM8853W		TTL	5	2.0*	80Δ	3		0.0	5.0	110nΔ			360m%		0	7	2	54-123	FP88a
74#	FJK101-74121		TTL	5	2.0*	80Δ	6	10	0.0	5.0	80nΔ			90m†	1.0 †	0	7	1	74-121	DL14s
75#	M74LS122P		TTL	5	2.0*	80Δ	5	20	0.0	5.0	56mΔ			52m	400m*	2	7	2	74-122	DL14cf
76#	M74LS123P		TTL	5	2.0*	80Δ	3	20	0.0	5.0	56nΔ			45m†	400m*	2	7	2	74-123	DL16brm
77#	M74LS221P		TTL	5	2.0*	80Δ	3	20	0.0	5.0	80nΔ			60m†	400m*	2	7	2	74-221	DL16brm
78	JANM																			

10. TIME DELAYS

IN ORDER OF: TECHNOLOGY(2) TYPE OF DELAY
(3) LOGIC(1)(4) LOGIC(0)(5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	2 T E L P A E Y	LOGIC LEVEL		FAN		POWER SUPPLY SPAN		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS	
					3 MIN. '1' (V)	4 MAX '0' (V)	IN	OUT MAX.	NEG. (V)	POS. (V)		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE
1	JANM38510/01201CCA		TTL	5	2.0*	80Δ	3	10	0.0	5.5	50n	60n#	220m		5	C	1	74-121	DL14bo
2	JANM38510/01201CCB		TTL	5	2.0*	80Δ	3	10	0.0	5.5	50n	60n#	220m		5	C	1	74-121	DL14bo
3	JANM38510/01201CDA		TTL	5	2.0*	80Δ	3	10	0.0	5.5	50n	60n#	220m		5	C	1	54-121	FP116
4	JANM38510/01201CDB		TTL	5	2.0*	80Δ	3	10	0.0	5.5	50n	60n#	220m		5	C	1	54-121	FP116
5	JANM38510/01202BAA		TTL	5	2.0*	80Δ	3	10	0.0	5.5	50n	60n#	220m		5	C	1	54-121	FP116
6	JANM38510/01202BAB		TTL	5	2.0*	80Δ	3	10	0.0	5.5	75n	40n#	170m		5	C	1	54-122	FP115
7	JANM38510/01202BCA		TTL	5	2.0*	80Δ	3	10	0.0	5.5	75n	40n#	170m		5	C	1	54-122	FP115
8	JANM38510/01202BCB		TTL	5	2.0*	80Δ	3	10	0.0	5.5	75n	40n#	170m		5	C	1	74-122	DL14bo
9	JANM38510/01202CAA		TTL	5	2.0*	80Δ	3	10	0.0	5.5	75n	40n#	170m		5	C	1	74-122	DL14bo
10	JANM38510/01202CAB		TTL	5	2.0*	80Δ	3	10	0.0	5.5	75n	40n#	170m		5	C	1	54-122	FP115
11	JANM38510/01202CCA		TTL	5	2.0*	80Δ	3	10	0.0	5.5	75n	40n#	170m		5	C	1	54-122	FP115
12	JANM38510/01202CCB		TTL	5	2.0*	80Δ	3	10	0.0	5.5	75n	40n#	170m		5	C	1	74-122	DL14bo
13	JANM38510/01203BEA		TTL	5	2.0*	80Δ	3	10	0.0	5.5	75n	40n#	170m		5	C	1	74-122	DL14bo
14	JANM38510/01203BEB		TTL	5	2.0*	80Δ	3	20	0.0	5.5	75n	40n#	380m		5	C	2	74-123	DL16br
15	JANM38510/01203BFA		TTL	5	2.0*	80Δ	3	20	0.0	5.5	75n	40n#	380m		5	C	2	74-123	DL16br
16	JANM38510/01203BFB		TTL	5	2.0*	80Δ	3	20	0.0	5.5	75n	40n#	380m		5	C	2	54-123	FP117
17	JANM38510/01203CEA		TTL	5	2.0*	80Δ	3	20	0.0	5.5	75n	40n#	380m		5	C	2	54-123	FP117
18	JANM38510/01203CEB		TTL	5	2.0*	80Δ	3	20	0.0	5.5	75n	40n#	380m		5	C	2	74-123	DL16br
19	JANM38510/01203CFA		TTL	5	2.0*	80Δ	3	20	0.0	5.5	75n	40n#	380m		5	C	2	74-123	DL16br
20	JANM38510/01203CFB		TTL	5	2.0*	80Δ	3	20	0.0	5.5	75n	40n#	380m		5	C	2	54-123	FP117
21	JANM38510/01204BAA		TTL	5	2.0*	80Δ	3	20	0.0	5.5	75n	40n#	380m		5	C	2	54-123	FP117
22	JANM38510/01204BAB		TTL	5	2.0*	80Δ	4	12	0.0	5.5	95n	40n#	138m		5	C	1	J04-38	FP115
23	JANM38510/01204BCA		TTL	5	2.0*	80Δ	4	12	0.0	5.5	95n	40n#	138m		5	C	1	J04-38	FP115
24	JANM38510/01204BCB		TTL	5	2.0*	80Δ	4	12	0.0	5.5	95n	40n#	138m		5	C	1	J04-38	FP115
25	JANM38510/01204CAA		TTL	5	2.0*	80Δ	4	12	0.0	5.5	95n	40n#	138m		5	C	1	J04-38	FP115
26	JANM38510/01204CAB		TTL	5	2.0*	80Δ	4	12	0.0	5.5	95n	40n#	138m		5	C	1	J04-38	FP115
27	JANM38510/01204CCA		TTL	5	2.0*	80Δ	4	12	0.0	5.5	95n	40n#	138m		5	C	1	J04-38	FP115
28	JANM38510/01204CCB		TTL	5	2.0*	80Δ	4	12	0.0	5.5	95n	40n#	138m		5	C	1	J04-38	FP115
29	JANM38510/01205BEA		TTL	5	2.0*	80Δ	4	12	0.0	5.5	95n	40n#	138m		5	C	1	J04-38	FP115
30	JANM38510/01205BEB		TTL	5	2.0*	80Δ	2	16	0.0	5.5	108n	40n#	286m		5	C	2	45-28	DL16br
31	JANM38510/01205BFA		TTL	5	2.0*	80Δ	2	16	0.0	5.5	108n	40n#	286m		5	C	2	45-28	DL16br
32	JANM38510/01205BFB		TTL	5	2.0*	80Δ	2	16	0.0	5.5	108n	40n#	286m		5	C	2	45-28	FP117
33	JANM38510/01205CEA		TTL	5	2.0*	80Δ	2	16	0.0	5.5	108n	40n#	286m		5	C	2	45-28	FP117
34	JANM38510/01205CEB		TTL	5	2.0*	80Δ	2	16	0.0	5.5	108n	40n#	286m		5	C	2	45-28	DL16br
35	JANM38510/01205CFA		TTL	5	2.0*	80Δ	2	16	0.0	5.5	108n	40n#	286m		5	C	2	45-28	DL16br
36	JANM38510/01205CFB		TTL	5	2.0*	80Δ	2	16	0.0	5.5	108n	40n#	286m		5	C	2	45-28	FP117
37#	MB74LS122		TTL	5	2.0*	80Δ	2	16	0.0	5.5	108n	40n#	286m		5	C	2	45-28	FP117
38#	MB74LS122M		TTL	5	2.0*	80Δ	5	20	0.0	5.0	56nΔ		55m	300m*	2	7	1	74-122	DL14aw
39#	MB74LS123		TTL	5	2.0*	80Δ	3	20	0.0	5.0	56nΔ		55m	300m*	2	7	1	74-122	DL14bn
40#	MB74LS123M		TTL	5	2.0*	80Δ	3	20	0.0	5.0	56nΔ		100m	300m*	2	7	2	74-123	DL16as
41#	MB74LS221		TTL	5	2.0*	80Δ	3	20	0.0	5.0	80nΔ		135m	300m*	2	7	2	74-221	DL16as
42#	MB74LS221M		TTL	5	2.0*	80Δ	3	20	0.0	5.0	80nΔ		135m	300m*	2	7	2	74-221	DL16cu
43	N8T20F		TTL	5	2.0*	80Δ	6	10	5.0	5.0	10n		375m		0	7	1	J05-89	DL16aw
44	N8T20N		TTL	5	2.0*	80Δ	6	10	5.0	5.0	10n		375m		0	7	1	J05-89	DL16bp
45	S8T20F		TTL	5	2.0*	80Δ	6	10	5.0	5.0	10n		375m		0	7	1	J05-89	DL16aw
46	S8T20N		TTL	5	2.0*	80Δ	6	10	5.0	5.0	10n		375m		0	7	1	J05-89	DL16bp
47	S54123E		TTL	5	2.0*	80Δ	5	20	0.0	5.0	40nΔ		330m%		5	5	2	74-123	DL16t
48	SN54L122J		TTL	5	2.0*	80Δ	4	40	0.0	5.0	80nΔ		70m	1.0 †	5	5	1	74-122	DL14af
49	SN54L122W		TTL	5	2.0*	80Δ	4	40	0.0	5.0	80nΔ		70m	1.0	5	5	1	54-122	FP52e
50	SN54L123J		TTL	5	2.0*	80Δ	3	10	0.0	5.0	80nΔ		165m%	1.0 *	5	5	1	74-123	DL16v
51	SN54LS122J		TTL	5	2.0*	80Δ	5	5	0.0	5.0	56nΔ		55m%	300m	5	5	1	74-122	DL14af
52	SN54LS122W		TTL	5	2.0*	80Δ	5	5	0.0	5.0	56nΔ		55m%	300m	5	5	1	54-122	MC004AA
53	SN54LS123J		TTL	5	2.0*	80Δ	5	5	0.0	5.0	56nΔ		100m%	300m	5	5	2	74-123	DL16v
54	SN54LS123W		TTL	5	2.0*	80Δ	5	5	0.0	5.0	56nΔ		100m%	300m	5	5	2	54-123	MC004AG
55	SN74LS122J		TTL	5	2.0*	80Δ	5	10	0.0	5.0	56nΔ		55m%	400m	0	7	1	74-122	DL14af
56	SN74LS122N		TTL	5	2.0*	80Δ	5	10	0.0	5.0	56nΔ		65m%	400m	0	7	1	74-122	DL14r
57	SN74LS123J		TTL	5	2.0*	80Δ	5	10	0.0	5.0	56nΔ		100m%	400m	0	7	2	74-123	DL16v
58	SN74LS123N		TTL	5	2.0*	80Δ	5	10	0.0	5.0	56nΔ		100m%	400m	0	7	2	74-123	DL16i
59	9602DM		TTL	5	2.0*	85Δ	3	7	0.0	5.0	90n		245m%	400m	0	7	2	45-28	DL16cj
60	9602FM		TTL	5	2.0*	85Δ	3	7	0.0	5.0	90n		245m%	400m	0	7	2	45-28	FP103
61	N8T22A		TTL	5	2.4*	40AC	4	8	0.0	5.0	40nΔ		132m		0	7	1	74-122	TO116
62	N74LS123AF		TTL	5	2.4*	40AC	3	20	0.0	5.0	65nΔ		100m		0	7	2	74-123	DL16aw
63	N74LS123AN		TTL	5	2.4*	40AC	3	20	0.0	5.0	65nΔ		100m		0	7	2	74-123	DL16bp
64	N74LS221F		TTL	5	2.4*	40AC	3	20	0.0	5.0	20n		135m		0	7	2	74-221	DL16aw
65	N74LS221N		TTL	5	2.4*	40AC	3	20	0.0	5.0	20n		135m		0	7	2	74-221	DL16bp
66	N74121F		TTL	5	2.4*	40AC	3	10	0.0	5.0	20n		200m		0	7	1	74-121	DL14bh
67	N74121N		TTL	5	2.4*	40AC	3	10	0.0	5.0	20n		200m		0	7	1	74-121	DL14br
68	N74121W		TTL	5	2.4*	40AC	3	10	0.0	5.0	80nΔ		200m		0	7	1	54-121	FP39e
69	N74122F		TTL	5	2.4*	40AC	3	10	0.0	5.0	65nΔ		140m		0	7	1	74-122	DL14bh
70	N74122N		TTL	5	2.4*	40AC	3	10	0.0	5.0	65nΔ		140m		0	7	1	74-122	DL14br
71	N74123F		TTL	5	2.4*	40AC	3	10	0.0	5.0	65nΔ		330m		0	7	2	74-123	DL16aw
72	N74123N		TTL	5	2.4*	40AC	3	10	0.0	5.0	65nΔ		330m		0	7	2	74-123	DL16bp
73	N74221F		TTL	5	2.4*	40AC	3	10	0.0	5.0	20n		400m		0	7	2	74-221	DL16aw
74	N74221N		TTL	5	2.4*	40AC	3	10	0.0	5.0	20n		400m		0	7	2	74-221	DL16bp

10. TIME DELAYS

IN ORDER OF: TECHNOLOGY (2) TYPE OF DELAY
(3) LOGIC (1) (4) LOGIC (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE	LOGIC LEVEL		FAN		POWER SUPPLY SPAN		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS			
					MIN. (V)	MAX. (V)	IN	OUT MAX.	NEG. (V)	POS. (V)		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE		
1	S54LS123AF		TTL	5	2.4*	.40ΔC	3		0.0	5.0	65nΔ			100m		5	C	2	74-123	DL16aw	
2	S54LS123AW		TTL	5	2.4*	.40ΔC	3		0.0	5.0	65nΔ			100m		5	C	2	54-123	FP47g	
3	S54LS221F		TTL	5	2.4*	.40ΔC	3		0.0	5.0	20n			135m		5	C	2	74-221	DL16aw	
4	S54LS221W		TTL	5	2.4*	.40ΔC	3		0.0	5.0	20n			135m		5	C	2	54-221	FP47g	
5	S54121F		TTL	5	2.4*	.40ΔC	3	10	0.0	5.0	20n			200m		5	C	1	74-121	DL14bh	
6	S54121Q		TTL	5	2.4*	.40ΔC	3	10	0.0	5.0	80nΔ					5	C	1	54-121	TO88	
7	S54121W		TTL	5	2.4*	.40ΔC	3	10	0.0	5.0	20n			200m		5	C	1	54-121	FP39e	
8	S54122F		TTL	5	2.4*	.40ΔC	3	10	0.0	5.0	65nΔ			140m%		5	C	1	74-122	DL14bh	
9	S54122Q		TTL	5	2.4*	.40ΔC	4	20	0.0	5.0	40nΔ					5	C	1	54-122	TO88	
10	S54122W		TTL	5	2.4*	.40ΔC	3	10	0.0	5.0	65nΔ			140m		5	C	1	54-122	FP39e	
11	S54123F		TTL	5	2.4*	.40ΔC	3	20	0.0	5.0	65nΔ			330m		5	C	2	74-123	DL16aw	
12	S54123W		TTL	5	2.4*	.40ΔC	3	20	0.0	5.0	65nΔ			330m		5	C	2	54-123	FP47g	
13	S54221F		TTL	5	2.4*	.40ΔC	3	10	0.0	5.0	20n			400m		5	C	2	74-221	DL16aw	
14	S54221W		TTL	5	2.4*	.40ΔC	3	10	0.0	5.0	20n			400m		5	C	2	54-221	FP47g	
15	DM54121J		TTL	5	3.3	.23C	3	10	0.0	5.0	50nΔ			90m†	1.2 †	5	C	1	74-121	DL14ax	
16	DM54121W		TTL	5	3.3	.23C	3	10	0.0	5.0	50nΔ			90m†	1.2 †	5	C	1	54-121	FP97a	
17	DM74121J		TTL	5	3.3	.23C	3	10	0.0	5.0	50nΔ			90m†	1.2 †	0	7	1	74-121	DL14ax	
18	DM74121N		TTL	5	3.3	.23C	3	10	0.0	5.0	50nΔ			90m†	1.2 †	0	7	1	74-121	DL14bt	
19	N8162A		TTL	5	3.4*	.40ΔC	7	12	0.0	5.0	52nΔ			50n	100m	1.4	0	7	1	J05-71	TO116
20	N8162F		TTL	5	3.4*	.40ΔC	7	12	0.0	5.0	52nΔ			50n	100m	1.4	0	7	1	J05-71	DL14ad
21	N8162J		TTL	5	3.4*	.40ΔC	7	12	0.0	5.0	52nΔ			50n	100m	1.4	0	7	1	J05-71	TO88
22	S8162A		TTL	5	3.4*	.40ΔC	7	12	0.0	5.0	52nΔ			50n	100m	1.4	5	C	1	J05-71	TO116
23	S8162F		TTL	5	3.4*	.40ΔC	7	12	0.0	5.0	52nΔ			50n	100m	1.4	5	C	1	J05-71	DL14ad
24	S8162J		TTL	5	3.4*	.40ΔC	7	12	0.0	5.0	52nΔ			50n	100m	1.4	5	C	1	J05-71	TO88
25#	ZN2010E		TTL	5	3.5	.20C		10	0.0	5.25						5	C			DLZ	
26#	ZN2010F		TTL	5	3.5	.20C		10	0.0	5.25						5	C			FPZ	
27	SN54LS221W		TTL	5	3.5	.25C	3	10	0.0	5.0	80nΔ	40n#		23m†	1.2 †	5	C	2	54-221	MO004AG	
28	XR320P#1		TTL	5	10.4	1.5C	4	62	0.0	12	100n†	40n†	625m			0	7	1	C01-21	DL14ay	
29	MC3456L#2		TTL	5	12*	2.7ΔC			0.0	15	100n†	100n†	1.0			0	7	1	C03-26	TO116	
30	MC3456P#2		TTL	5	12*	2.7ΔC			0.0	15	100n†	100n†	625m			0	7	2	C03-26	DL14ag	
31	MC1455G		TTL	5	12.5	2.5C	3		0.0	15	100n†	100n†	680m†			0	7	1	J07-04	TO99	
32	MC1455P1		TTL	5	12.5	2.5C	3		0.0	15	100n†	100n†	625m†			0	7	1	J07-04	DL8o	
33	MC1455U		TTL	5	12.5	2.5C	3		0.0	15	100n†	100n†	625m†			0	7	1	J07-04	DL8o	
34	MC1555G		TTL	5	12.5	2.5C	3		0.0	15	100n†	100n†	680m†			5	C	1	J07-04	TO99	
35	MC1555U		TTL	5	12.5	2.5C	3		0.0	15	100n†	100n†	625m†			5	C	1	J07-04	DL8o	
36#	TDA0555D		TTL	5	12.5	2.5C	6		0.0	15	100n†	100n†	625m†			2	8	1	J05-114	FP129	
37	JANM38510/10902BCB		TTL	5	12.5*	2.8ΔC	4	50	0.0	15	300nΔ	1.0u#		400m		5	C	2	J05-120	DL14bo	
38	JANM38510/10902CCB		TTL	5	12.5*	2.8ΔC	4	50	0.0	15	300nΔ	1.0u#		400m		5	C	2	J05-120	DL14bo	
39	XR2556CN#1		TTL	5	12.7*	2.5ΔC		50	0.0	15	10u	100n†	100n†	420m%		0	7	2	J05-120a	DL14ay	
40	XR2556CP#1		TTL	5	12.7*	2.5ΔC		50	0.0	15	10u	100n†	100n†	420m%		0	7	2	J05-120a	DL14ay	
41	MC3556L#2		TTL	5	13*	2.2ΔC			0.0	15	100n†	100n†	1.0			5	C		C03-26	TO116	
42	XR2556M#1		TTL	5	13*	2.2ΔC		50	0.0	15	10u	100n†	100n†	330m%		5	C	2	J05-120a	DL14ay	
43#	M51841P		TTL	5	13.3	2.5C	5		0.0	5.0	20n	100n†	100n†	600m		0	7	1	J05-117	DL8i	
44	JANM38510/10901BCB		TTL	5	14*	2.8ΔC	4	50	0.0	16.5	300nΔ	1.0u#		400m		5	C	1	J05-119a	DL14bo	
45	JANM38510/10901BGC		TTL	5	14*	2.8ΔC	4	50	0.0	16.5	300nΔ	1.0u#		300m		5	C	1	J05-119a	CN13	
46	JANM38510/10901CCB		TTL	5	14*	2.8ΔC	4	50	0.0	16.5	300nΔ	1.0u#		400m		5	C	1	J05-119a	DL14bo	
47	JANM38510/10901CGC		TTL	5	14*	2.8ΔC	4	50	0.0	16.5	300nΔ	1.0u#		300m		5	C	1	J05-119a	DL14bo	
48#	TDB0555SCM		TTL	5	14*	2.8ΔC	4	50	0.0	16.5	300nΔ	1.0u#		300m		5	C	1	J05-119a	CN13	
49#	TDB0555DP8		TTL	5.0					0	18	100n	100n	600m			0	7	1	J05-99	TO99	
50#	TDB0556DP		TTL	5.0					0	18	100n	100n	600m			0	7	1	J05-120	DL8ag	
51#	TDC0555CM#mil		TTL	5.0					0	18	100n	100n	600m			5	C	1	J05-119	DL14cy	
52#	TDC0556DP#mil		TTL	5.0					0	18	100n	100n	600m			5	C	1	J05-119	TO99	
53	54121DM		TTL	5F	2.0*	.80Δ	3	10	0.0	5.0	20n			115m†	1.0 †	5	C	1	74-121	TO116	
54	54121FM		TTL	5F	2.0*	.80Δ	3	10	0.0	5.0	20n			200m	1.0 †	5	C	1	54-121	FP21h	
55	74121DC		TTL	5F	2.0*	.80*	3	10	0.0	5.0	20n			200m	1.0 †	0	7	1	74-121	TO116	
56	74121PC		TTL	5F	2.0*	.80Δ	3	10	0.0	5.0	20n			200m	1.0 †	0	7	1	74-121	DL14ce	
57#	M53321P		TTL	5F	2.0*	.80Δ	3	10	0.0	7.0	30n			115m†	1.0 †	0	7	1	74-121	DL14d	
58	SN54121J		TTL	5F	2.0*	.80Δ	3	10	0.0	5.0	35n			200m	1.0 †	5	C	1	74-121	DL14af	
59	SN54121W		TTL	5F	2.0*	.80Δ	3	10	0.0	5.0	35n			200m	1.0 †	5	C	1	74-121	MO004AA	
60	SN74121J		TTL	5F	2.0*	.80Δ	3	10	0.0	5.0	35n			200m	1.0 †	0	7	1	74-121	DL14af	
61	SN74121N		TTL	5F	2.0*	.80Δ	3	10	0.0	5.0	35n			200m	1.0 †	0	7	1	74-121	DL14r	
62#	ZN54121E		TTL	5F	2.0*	.80Δ	3	10	0.0	5.0	30n			115m†	1.0 †	5	C	1		TO116	
63#	ZN54121J		TTL	5F	2.0*	.80Δ	3	10	0.0	5.0	30n			115m†	1.0 †	5	C	1		TO116	
64#	ZN74121E		TTL	5F	2.0*	.80Δ	3	10	0.0	5.0	30n			115m†	1.0 †	0	7	1		DL14ap	
65#	ZN74121J		TTL	5F	2.0*	.80Δ	3	10	0.0	5.0	30n			115m†	1.0 †	0	7	1		DL14ap	
66	SN54221J		TTL	5F	3.4	.20C	3	10	0.0	5.0	80nΔ	20n#		400m	1.2 †	5	C	2	74-221	DL16v	
67	SN54221W		TTL	5F	3.4	.20C	3	10	0.0	5.0	80nΔ	20n#		400m	1.2 †	5	C	2	54-221	MO004AG	
68	SN74221J		TTL	5F	3.4	.20C	3	10	0.0	5.0	80nΔ	20n#		400m	1.2 †	0	7	2	74-221	DL16v	
69	SN74221N		TTL	5F	3.4	.20C	3	10	0.0	5.0	80nΔ	20n#		400m	1.2 †	0	7	2	74-221	DL16i	
70	SN54LS221J		TTL	5F	3.5	.25C	3	10	0.0	5.0	80nΔ	40n#		23m†	1.2 †	5	C	2	74-221	DL16v	
71	SN74LS221J		TTL	5F	3.5	.25C	3	10	0.0	5.0	80nΔ	40n#		23m†	1.2 †	0	7	2	74-221	DL16v	
72	SN74LS221N		TTL	5F	3.5	.25C	3	10	0.0	5.0	80nΔ	40n#		23m†	1.2 †	0	7	2	74-221	DL16i	
73#	SFC4121E		TTL	5FS	2.0*	.80Δ	3	10	0.0	5.0	30n			115m†	1.0 †	0	7	1		TO116	
74#	SFC4121EM		TTL	5FS	2.0*	.80Δ	3	10	0.0	5.0	30n			115m†	1.0 †	5	C	1		TO116	
75#	SFC4121ET		TTL	5FS	2.0*	.80Δ	3	10	0.0	5.0	30n			115m†	1.0 †	2	8	1		TO116	
76#	SFC4121PM		TTL	5FS	2.0*	.80Δ	3	10	0.0	5											

10. TIME DELAYS

IN ORDER OF: TECHNOLOGY(2) TYPE OF DELAY
(3) LOGIC(1)(4) LOGIC(5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE	LOGIC LEVEL		FAN		POWER SUPPLY SPAN		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS	
					MIN. (V)	MAX. (V)	IN	OUT MAX.	NEG. (V)	POS. (V)		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE
1	CA555T#mil		TTL	7								100n†	100n†	600m		5	1	J07-02	TO99
2	NE558F		TTL	7				4	4	4.5	18	100n	100n	1.2		0	4	L00-95	DL16dv
3	NE558N		TTL	7				4	4	0.0	16	100n	100n	1.2		0	4	L00-95	DL16bp
4#	uPC617C		TTL	7						0	18	100n	100n	600m		2	1	J07-04	DL8ai
5#	uPC1555C		TTL	7						0	18	100n	100n	600m		0	1	J07-04	DL8ai
6	XR555CM		TTL	7				5.0	1.0	0	18.0	200n	200n	385m		0	1	J05-119a	DL8Z
7#	ZN1034E		TTL	7	2.5*	.40CΔ		2		0.0	5.0			25m%		0	1	J06-7	TO116
8	NE556A		TTL	7	2.75*	.35ΔC		4		0.0	5.0	100n†	100n†	600m		0	2	J05-98a	DL14br
9	XRL555CN		TTL	7	2.8*	.35ΔC		4	1	0.0	5.0	200n†	100n†	2.5m%		0	1	J05-119a	DL8d
10	XRL555CP		TTL	7	2.8*	.35ΔC		4	1	0.0	5.0	200n†	100n†	2.5m%		0	1	J05-119a	DL8d
11	SE556A		TTL	7	3.0*	.25ΔC		4		0.0	5.0	100n†	100n†	600m		5	2	J05-98a	DL14br
12	SE556CA		TTL	7	3.0*	.25ΔC		4		0.0	5.0	100n†	100n†	600m		5	2	J05-98a	DL14br
13	XRL555M		TTL	7	3.0*	.25ΔC		4	1	0.0	5.0	200n†	100n†	1.5m%		5	1	J05-119a	DL8d
14#	TDB0555		TTL	7	5.0	.70				0.0	16	100n†	100n†			0	1	J05-114	TO99
15#	TDB0555B		TTL	7	5.0	.70				0.0	16	100n†	100n†			0	1	J05-114	DL8m
16#	TDB0556A		TTL	7	5.0	.70				0.0	18	100n†	100n†			0	2	J05-120	DL14cp
17#	TD0555		TTL	7	5.0	.70				0.0	18	100n†	100n†			5	1	J05-114	TO99
18	uA555HC		TTL	7	12.5	2.5		4	125	0.0	15	10u	100n†	600m		0	1	J05-119	TO100
19	uA555HM		TTL	7	12.5	2.5		4	125	0.0	15	10u	100n†	600m		5	1	J05-119	TO100
20	uA555TC		TTL	7	12.5	2.5		4	125	0.0	15	10u	100n†	600m		0	1	J05-119a	CN2J
21	uA556DC		TTL	7	12.5	2.5		4	125	0.0	15	10u	100n†	600m		0	2	J05-120	TO116
22	uA556DM		TTL	7	12.5	2.5		4	125	0.0	15	10u	100n†	600m		5	2	J05-120	TO116
23	uA556PC		TTL	7	12.5	2.5		4	125	0.0	15	10u	100n†	600m		0	2	J05-120	DL14ce
24	LM555CH		TTL	7	12.7*	2.5ΔC		4	50	0.0	15	10u	100n†	600m		0	1	J05-119	CN13c
25	LM555CJ		TTL	7	12.7*	2.5ΔC		4	50	0.0	15	10u	100n†	225m%		0	1	J05-119a	DL8w
26	LM555CN		TTL	7	12.7*	2.5ΔC		4	50	0.0	15	10u	100n†	600m		0	1	J05-119a	DL8w
27	NE555D		TTL	7	12.7	2.5C		1	1	0.0	16	300n	300n	600m		0	1	J05-98	FP129
28	NE555JG		TTL	7	12.7*	2.5ΔC		4	50	0.0	15	100n†	100n†	225m%		0	1	J05-119a	DL8v
29	NE555L		TTL	7	12.7*	2.5ΔC		4	50	0.0	15	100n†	100n†	225m%		0	1	J05-119	CN13c
30	NE555P		TTL	7	12.7*	2.5ΔC		4	50	0.0	15	100n†	100n†	225m%		0	1	J05-119a	DL8m
31	NE555J		TTL	7	12.7*	2.5ΔC		4	50	0.0	15	100n†	100n†	420m%		0	2	J05-120	MO001AA
32	NE556N		TTL	7	12.7*	2.5ΔC		4	50	0.0	15	100n†	100n†	420m%		0	2	J05-120	DL14r
33	SE556J		TTL	7	12.7*	2.5ΔC		4	50	0.0	15	100n†	100n†	330m%		5	2	J05-120	MO001AA
34	XR555CN		TTL	7	12.7*	2.5ΔC		5	50	0.0	15	100n†	100n†	225m%		0	1	J05-119a	DL8d
35	XR555CP		TTL	7	12.7*	2.5ΔC		5	50	0.0	15	100n†	100n†	225m%		0	1	J05-119a	DL8d
36	XR556CN		TTL	7	12.7*	2.5ΔC		4	50	0.0	15	100n†	100n†	420m%		5	2	J05-120	DL14ay
37	XR556CP		TTL	7	12.7*	2.5ΔC		4	50	0.0	15	100n†	100n†	420m%		5	2	J05-120	DL14ay
38	NE556-1F		TTL	7	12.7	3.2C		2	2	0.0	16	300n	300n	1.2		0	2	J05-98a	DL14dg
39	NE556-1N		TTL	7	12.7	3.2C		2	2	0.0	16	300n	300n	1.2		0	2	J05-98a	DL14br
40	NE556D		TTL	7	12.7	3.2C		2	2	0.0	16	300n	300n	600m		0	2	J05-98a	FP147
41	SA556-1F		TTL	7	12.7	3.2C		2	2	0.0	16	300n	300n	1.2		4	8	J05-98a	DL14da
42	SA556-1N		TTL	7	12.7	3.2C		2	2	0.0	16	300n	300n	1.2		4	8	J05-98a	DL14br
43	SE556-1CF		TTL	7	12.7	3.2C		2	2	0.0	16	200n	200n	1.2		5	2	J05-98a	DL14dg
44	SE556-1CN		TTL	7	12.7	3.2C		2	2	0.0	16	200n	200n	1.2		5	2	J05-98a	DL14br
45	SE556-1F		TTL	7	12.7	3.2C		2	2	0.0	18	200n	200n	1.2		5	2	J05-98a	DL14dg
46	SE556-1N		TTL	7	12.7	3.2C		2	2	0.0	18	200n	200n	1.2		5	2	J05-98a	DL14br
47	LM555H		TTL	7	13*	2.2ΔC		4	50	0.0	15	100n†	100n†	600m		5	1	J05-119	CN13c
48	LM555J		TTL	7	13*	2.2ΔC		4	50	0.0	15	100n†	100n†	180m%		5	1	J05-119a	DL8w
49	SE555JG		TTL	7	13*	2.2ΔC		4	50	0.0	15	100n†	100n†	180m%		5	1	J05-119a	DL8v
50	SE555L		TTL	7	13*	2.2ΔC		4	50	0.0	15	100n†	100n†	180m%		5	1	J05-119	CN13c
51	SE555P		TTL	7	13*	2.2ΔC		4	50	0.0	15	100n†	100n†	180m%		5	1	J05-119a	DL8m
52	XR555M		TTL	7	13*	2.2ΔC		5	50	0.0	15	100n†	100n†	165m%		5	1	J05-119a	DL8d
53	XR556M		TTL	7	13*	2.2ΔC		4	50	0.0	15	100n†	100n†	330m%		5	2	J05-120	DL14ay
54#	SE556F		TTL	7	13.3	.25C		4		0.0	18.0	300n	300n	600m		5	2	J05-98a	
55#	SE556N		TTL	7	13.3	.25C		4		0.0	18.0	300n	300n	600m		5	2	J05-98a	
56#	SE555F		TTL	7	13.3	2.2C		5		0.0	18.0	300n	300n	600m		5	1	J05-98c	
57#	SE555FE		TTL	7	13.3	2.2C		5		0.0	18.0	300n	300n	600m		5	1	J05-98	
58#	SE555H		TTL	7	13.3	2.2C		5		0.0	18.0	300n	300n	600m		5	1	J05-98b	
59#	SE555N		TTL	7	13.3	2.2C		5		0.0	18.0	300n	300n	600m		5	1	J05-98	
60#	NE555F		TTL	7	13.3	2.5C		5		0.0	16.0	300n	300n	600m		0	1	J05-98c	
61#	NE555FE		TTL	7	13.3	2.5C		5		16.0		300n	300n	600m		0	1	J05-98	
62	NE555H		TTL	7	13.3	2.5C		5		0.0	15	20n	100n†	600m		0	1	J05-98	CN46b
63	NE555N		TTL	7	13.3	2.5C		5		0.0	15	20n	100n†	600m		0	1	J05-98	DL8c
64	NE555T		TTL	7	13.3	2.5C		5		0.0	15	20n	100n†	600m		0	1	J05-98	CN46b
65	NE555V		TTL	7	13.3	2.5C		5		0.0	15	20n	100n†	600m		0	1	J05-98	DL8c
66#	SE555CF		TTL	7	13.3	2.5C		5		0.0	16.0	300n	300n	600m		0	1	J05-98c	
67#	SE555CFE		TTL	7	13.3	2.5C		5		16.0		300n	300n	600m		0	1	J05-98	
68#	SE555CH		TTL	7	13.3	2.5C		5		16.0		300n	300n	600m		0	1	J05-98b	
69#	SE555CN		TTL	7	13.3	2.5C		5		16.0		300n	300n	600m		0	1	J05-98	
70	SE555T		TTL	7	13.3	2.5C		5		0.0	15	100n†	100n†	600m		5	1	J05-98	
71	SE555V		TTL	7	13.3	2.5C		5		0.0	15	100n†	100n†	600m		5	1	J05-98	
72#	NE556F		TTL	7	13.3	3.2C		4		0.0	16.0	300n	300n	600m		0	2	J05-98a	
73#	SA556N		TTL	7	13.3	3.2C		4		0.0	16.0	300n	300n	600m		4	8	J05-98a	
74#	SE556CN		TTL	7	13.3	3.2C		4		0.0	16.0	300n	300n	600m		4	8	J05-98a	

11. COUNTERS

IN ORDER OF: (1) TECHNOLOGY (2) TYPE OF COUNTER
(3) OPERATING FREQ. (4) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE	MAX. OPER. FREQ. (Hz)	LOGIC LEVEL		FAN IN	FAN OUT	POWER SUPPLY SPAN	PROPAGATION DELAY (S)	MAXIMUM RISE TIME (S)	MAXIMUM FALL TIME (S)	MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS			
						MIN. '1' (V)	MAX. '0' (V)											LOGIC OR BLOCK	OUTLINE		
1	DM54LS160AW#mil																				
2	DM54LS162AW#mil																				
3	DM54S197W#mil																				
4	DM54162AW#mil																				
5#	LC7960			IE	500k*					.30	10			174m		3	8		E01-162	DL16m	
6#	LC7961			IE	500k*					.30	10	3.0uΔ		600m		3	7		E01-161	DL20p	
7	CM4029AD			1,2	5.0MT\$	10	0.0C	9	0.0	0.0	10	300nΔ	15u*	15u*	200m	4.5 †	5	C	1	40-29B	DL16az
8	CM4029AE			1,2	5.0MT\$	10	0.0C	9	0.0	0.0	10	600nΔ	15u*	15u*	200m	4.5 †	4	C	1	40-29B	DL16az
9	HD9-54C93			2	5.0M	10	0.0	2	0.0	0.0	15	75n	15u*	15u*	750n	3.0	5	C	1		
10	CM4020AD			2	8.0MT\$	10	0.0C	2	0.0	0.0	10	225nΔ	15u*	15u*	200m	4.5 †	5	C	1	E02-72	DL14j
11	CM4020AE			2	8.0MT\$	10	0.0C	2	0.0	0.0	10	250nΔ	15u*	15u*	200m	4.5 †	4	C	1	E02-72	DL14j
12	CM4024AD			2	10M†	10	0.0C	2	0.0	0.0	10	25nΔ	10u*	10u*	200m	4.5 †	5	C	1	40-24B	DL14j
13	CM4024AE			2	10M†	10	0.0C	2	0.0	0.0	10	50nΔ	10u*	10u*	200m	4.5 †	4	C	1	40-24B	DL14j
14	CM4040AD			2	10M	10	0.0	2	0.0	0.0	10	125n	15u*	15u*	200m		5	C	1	40-40B	DL16az
15	CM4040AE			2	10M	10	0.0	2	0.0	0.0	10	125n	15u*	15u*	200m		4	C	1	40-40B	DL16az
16	NC7106			3	10k†						12					4	8	1	E03-76	DLZ	
17	NC7107			3	10k†						12					4	8	1	E03-76	DLZ	
18	CM4017AD			3	5.0MT\$	10	0.0C	3	0.0	0.0	10	400nΔ	15u*	15u*	200m	4.5 †	5	C	1	40-17B	DL16az
19	CM4017AE			3	5.0MT\$	10	0.0C	3	0.0	0.0	10	500nΔ	15u*	15u*	200m	4.5 †	4	C	1	40-17B	DL16az
20	CM4026AD			3	5.0MT\$	10	0.0C	4	0.0	0.0	10	500nΔ	15u*	15u*	200m	4.5 †	5	C	1	40-26B	DL16az
21	CM4026AE			3	5.0MT\$	10	0.0C	4	0.0	0.0	10	700nΔ	15u*	15u*	200m	4.5 †	4	C	1	40-26B	DL16az
22	CM4033AD			3	5.0MT\$	10	0.0C	5	0.0	0.0	10	500nΔ	15u*	15u*	200m	4.5 †	5	C	1	40-33B	DL16az
23	CM4033AE			3	5.0MT\$	10	0.0C	5	0.0	0.0	10	700nΔ	15u*	15u*	200m	4.5 †	4	C	1	40-33B	DL16az
24	CM4018AD			6	5.0MT\$	10	0.0C	9	0.0	0.0	10	400nΔ	15u*	15u*	200m	4.5 †	5	C	1	40-18B	DL16az
25	CM4018AE			6	5.0MT\$	10	0.0C	9	0.0	0.0	10	500nΔ	15u*	15u*	200m	4.5 †	4	C	1	40-18B	DL16az
26	CM4022AD			6	5.0MT\$	10	0.0C	3	0.0	0.0	10	225nΔ	15u*	15u*	200m	4.5 †	5	C	1	40-22B	DL16az
27	CM4022AE			6	5.0MT\$	10	0.0C	3	0.0	0.0	10	250nΔ	15u*	15u*	200m	4.5 †	4	C	1	40-22B	DL16az
28#	MSM4022RS		CMS	Δ8	2.0M†	3.6*	1.0Δ	3	40	0.3	16	1.0u	200n	200n	200m	0.6	4	8	1	E01-171	DL16z
29	4518BDC		CMS	1		11*	4.0Δ	3	25e	0.0	15	168nΔ			9.0m%	6.7 †	4	8	2	45-18B	DL16cj
30	4518BDM		CMS	1		11*	4.0Δ	3	25e	0.0	15	168nΔ			9.0m%	6.7 †	5	C	2	45-18B	DL16cj
31	4518BFC		CMS	1		11*	4.0Δ	3	25e	0.0	15	168nΔ			9.0m%	6.7 †	4	8	2	45-18B	FP103
32	4518BFM		CMS	1		11*	4.0Δ	3	25e	0.0	15	168nΔ			9.0m%	6.7 †	5	C	2	45-18B	FP103
33	4518BPC		CMS	1		11*	4.0Δ	3	25e	0.0	15	168nΔ			9.0m%	6.7 †	4	8	2	45-18B	
34#	HEF4510BTD		CMS	1		1.5	3.5	8	16e	0.5	18	150nΔ	1.0u	1.0u	200m	6.7 †	4	8	1	45-10	FP148
35#	HEF4522		CMS	1		11*	4.0Δ	8	16e	0.0	15				400m	6.7 †	4	8	1	45-22B	DLZ
36#	HEF4522BDF		CMS	1		11.0*	4.0Δ	8	16e	0.0	15				400m	6.7 †	4	8	1	E01-128	DL16at
37#	HEF4522BPN		CMS	1		11.0*	4.0Δ	8	16e	0.0	15				400m	6.7 †	4	8	1	E01-128	DL16cc
38#	MSM5511RS		CMS	1	100k	3.6*	0.8Δ	10	1e	0.0	7.0		5.0u#		200m	0.6	3	8	1	E01-167	DL24ba
39#	HD14534B		CMS	1	.25M	4.0	1.0	8	4e	0.0	18	4.0u	400n	200n	300m		4	8	4	45-34	DL24ao
40#	TC5001P		CMS	1	500k*	4.9*	.05ΔC	8	0.0	0.0	5.0	1.0uΔ	400n	200n	300m	1.5	3	8	1	E01-139	DL24ao
41#	TC5037P		CMS	1	500k*	4.9*	.05ΔC	4	0.0	0.0	5.0	1.0uΔ	400n	200n	300m	1.5	3	8	1	E01-143	DL16cr
42#	TC5051P		CMS	1	500k*	4.9*	.05ΔC	5	0.0	0.0	5.0	2.5uΔ	400n	200n	300m	1.5	3	8	1		DL16cr
43#	TC5052P		CMS	1	500k*	4.9*	.05ΔC	5	0.0	0.0	5.0	2.5uΔ	400n	200n	300m	1.5	3	8	1		DL16cr
44#	TC5053P		CMS	1	500k*	3.5*	1.5Δ	8	0.0	0.0	5.0				300m	1.5	4	8	1		DL24ao
45#	TC5054P		CMS	1	500k*	3.5*	1.5Δ	8	0.0	0.0	5.0				300m	1.5	4	8	1		DL24ao
46#	HD14553B		CMS	1	.70M	3.5	1.5	6	.0e	0.0	18	900n	400n	250n	300m		4	8	1	45-53	DL16p
47#	TC5026P		CMS	1	800k*	4.9*	.05ΔC	6	0.0	0.0	5.0	280nΔ	400n	200n	300m	1.5	3	8	1	E01-141	DL14ch
48#	HD14160B		CMS	1	1.0M	3.5	1.5	4	4e	0.0	15	350n	200n	200n	300m		4	8	4	E01-163	DL16p
49#	HD14162B		CMS	1	1.0M	3.5	1.5	4	4e	0.0	15	350n	200n	200n	300m		4	8	4	E01-163	DL16p
50#	MSM4510RS		CMS	1	1.5M†	3.6*	1.0Δ	40	0.3	16	1.0u				200m	0.6	4	8	1	E01-167	DL16z
51#	MSM5503		CMS	1	2.0M†	3.6*	.80Δ	10	15	0.0	5.0	1.0uΔ	5.0u	5.0u	250u		2	7	1		DL16bf
52#	MSM5505		CMS	1	2.0M†	3.6*	.80Δ	15	15	0.0	5.0	1.0uΔ	5.0u	5.0u	250u		2	7	1	E01-106	DL24w
53#	MSM5512RS		CMS	1	2.0M	3.6*	0.8Δ	11	40e	0.0	7.0	1.0uΔ	500n#		0.6	3	8	1	E01-168	DL24ba	
54#	MSM5535		CMS	1	2.0M†	3.6*	.80Δ	6	15	0.0	5.0	1.0uΔ	5.0u	5.0u	250u		2	7	1		DL14bs
55#	TC5070P		CMS	1	2.0M*	14.9*	.050ΔC	18	50	0.0	5.0	1.5uΔ	400n	200n	300m	1.5	4	8	1	E01-158	DL42a
56#	TC5071P		CMS	1	2.0M*	14.9*	.05ΔC	18	50	0.0	5.0	1.5uΔ	400n	200n	300m	1.5	4	8	1	E01-158	DL42a
57#	TC5072P		CMS	1	2.0M*	14.9*	.05ΔC	18	50	0.0	5.0	1.5uΔ	400n	200n	300m	1.5	4	8	1	E01-158	DL42a
58	CD40102BD		CMS	1	2.4M\$	15*	.05ΔC	0.0	0.0	0.0	15	250nΔ			300u%	2.5	5	C	1	40-102B	MO001AE
59	CD40102BE		CMS	1	2.4M\$	15*	.05ΔC	0.0	0.0	0.0	15	250nΔ			300u%	2.5	4	8	1	40-102B	MO001AC
60	CD40102BF		CMS	1	2.4M\$	15*	.05ΔC	0.0	0.0	0.0	15	250nΔ			300u%	2.5	5	C	1	40-102B	MO001AC
61#	HCC40102BD		CMS	1	2.4M\$	15*	.05ΔC	0.0	0.0	0.0	15	250nΔ			300u%		5	C	1	40-102B	DL16cm
62#	HCC40102BF		CMS	1	2.4M\$	15*	.05ΔC	0.0	0.0	0.0	15	250nΔ			300u%		5	C	1	40-102B	DL16aq
63#	HCC40102BK		CMS	1	2.4M\$	15*	.05ΔC	0.0	0.0	0.0	15	250nΔ			300u%		5	C	1	40-102B	FP131
64#	HCF40102BE		CMS	1	2.4M\$	15*	.05ΔC	0.0	0.0	0.0	15	250nΔ			300u%		4	8	1	40-102B	DL16bj
65#	HCF40102BF		CMS	1	2.4M\$	15*	.05ΔC	0.0	0.0	0.0	15	250nΔ			300u%		4	8	1	40-102B	DL16aq
66#	M4029BP		CMS	1	2.5M*	11.0*	4.0Δ	9	50	0.0	18	400nΔ	160n	80n	0.5	4.0	4	8	1	40-29	DL16db
67#	TC40192BP		CMS	1	2.5M*	14.9*	.05ΔC	8	50	0.0	15	300nΔ	160n	80n	300m	4.0	4	8	1	E01-157	DL16cz
68#	M4510BP		CMS	1	3.0M*	11*	4.0Δ	9	50	0.0	18	600nΔ	160n	80n	0.5	4.0	4	8	1	E01-99	DL16db
69	MC14522BCL		CMS	1	3.0M*	11*	4.0Δ	9	50	0.0	15	340n	160n	80n	1.2m*	2.5 *	4	8	1	45-22B	DL16am
70	MC14522BCP		CMS	1	3.0M*	11*	4.0Δ	9	50	0.0	15	340n	160n	80n	1.2m*	2.5 *	4	8	1	45-22B	DL16j
71#	M40160BP		CMS	1	3.5M*	11.0*	4.0Δ	9	50	0.0	18	280nΔ	160n	80n	0.5	4.0	4	8	1	40H160	DL16db
72#	M40162BP		CMS	1	3.5M*	11.0*	4.0Δ	9	50	0.0	18	280nΔ	160n	80n	0.5	4.0	4	8	1	40H162	DL16db
73#	TC40160BP		CMS	1	3.5M*	14.9*	.05ΔC														

11. COUNTERS

IN ORDER OF: (1) TECHNOLOGY (2) TYPE OF COUNTER
(3) OPERATING FREQ. (4) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE	MAX. OPER. FREQ. (Hz)	LOGIC LEVEL		FAN IN	FAN OUT	POWER SUPPLY NEG (V)	POWER SUPPLY POS (V)	PROPAGATION DELAY (S)	RISE TIME (S)	FALL TIME (S)	MAX. OPER. DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS		
						MIN. (V)	MAX. (V)												LOGIC OR BLOCK	OUTLINE	
1#	TC4522BP		CMS	1	5.5M \dagger	14.9*	0.5 Δ C	9	50	0.0	15	370n Δ	160n	80n	300m	2.5 *	4	8	1	45-22B	DL16cr
2	4510BDC		CMS	1	6.0M*	11*	4.0 Δ	8	25e	0.0	15	196n Δ			9.0m*	6.7 \dagger	4	8	1	45-10B	DL16cj
3	4510BDM		CMS	1	6.0M*	11*	4.0 Δ	8	25e	0.0	15	196n Δ			9.0m*	6.7 \dagger	5	C	1	45-10B	DL16ci
4	4510BFC		CMS	1	6.0M*	11*	4.0 Δ	8	25e	0.0	15	196n Δ			9.0m*	6.7 \dagger	4	8	1	45-10B	FP103
5	4510BFM		CMS	1	6.0M*	11*	4.0 Δ	8	25e	0.0	15	196n Δ			9.0m*	6.7 \dagger	5	C	1	45-10B	FP103
6	4510BPC		CMS	1	6.0M*	11*	4.0 Δ	8	25e	0.0	15	196n Δ			9.0m*	6.7 \dagger	4	8	1	E01-73	DL16aq
7#	HCC4518BD		CMS	1	6.0M \dagger	10	0.0	3	0.0	0.0	10	260n Δ			200m	4.5 \dagger	5	C	2	45-18B	DL16aq
8#	HCC4518BF		CMS	1	6.0M \dagger	10	0.0	3	0.0	0.0	10	260n Δ			200m	4.5 \dagger	5	C	2	45-18B	FP131
9#	HCC4518BK		CMS	1	6.0M \dagger	10	0.0	3	0.0	0.0	10	260n Δ			200m	4.5 \dagger	5	C	2	45-18B	DL16bj
10#	HCF4518BE		CMS	1	6.0M \dagger	10	0.0	3	0.0	0.0	10	260n Δ			200m	4.5 \dagger	4	8	2	45-18B	DL16aj
11#	HCF4518BF		CMS	1	6.0M \dagger	10	0.0	3	0.0	0.0	10	260n Δ			200m	4.5 \dagger	4	8	2	45-18B	DL16aj
12#	HD14516B		CMS	1	6.0M	3.5	1.5	4e	0.0	15	315n	360n	200n	300m	100u%	3.0	5	C	4	E01-73	DL16p
13	SCL4510B		CMS	1	6.0M \dagger	9.95*	0.5 Δ C	9	50	0.0	10	250n Δ			300m	3.0	5	C	1	45-10B	DL16ar
14	883/4522B		CMS	1	6.6M \dagger	8.2	6.7	4	0.0	15	240n				300m	5	C	4	45-22	MO001AG	
15	MC14553BAL		CMS	1	7.0M \dagger	11*	4.0 Δ	6	0.0	15	600n Δ	130n	80n	300m	2.5 *	5	C	1	45-53B	DL16am	
16	MC14553BCL		CMS	1	7.0M \dagger	11*	4.0 Δ	6	0.0	15	600n Δ	130n	80n	300m	2.5 *	4	8	1	45-53B	DL16am	
17	MC14553BCP		CMS	1	7.0M \dagger	11*	4.0 Δ	6	0.0	15	600n Δ	130n	80n	300m	2.5 *	4	8	1	45-53B	DL16bo	
18	CD4522BC		CMS	1	7.7M \dagger	7.0	3.0	2	0	15	50n			500m	4.5 \dagger	4	8	1	E01-77	DLZ	
19	CD4522BM		CMS	1	7.7M \dagger	7.0	3.0	2	0	15	50n			500m	4.5 \dagger	5	C	1	E01-77	DLZ	
20	883/4518B		CMS	1	8.0M \dagger	8.2	6.7	3	18e	0.0	15	160n	5.0u	5.0u	300m	4.0 *	5	C	2	45-18B	MO001AG
21	CD4518BD		CMS	1	8.0M \dagger	11*	4.0 Δ	3	18e	0.0	15	170n Δ	5.0u	5.0u	500m	4.0 *	5	C	2	45-18B	MO001AE
22	CD4518BE		CMS	1	8.0M \dagger	11*	4.0 Δ	3	18e	0.0	15	170n Δ	5.0u	5.0u	500m	4.0 *	4	8	2	45-18B	MO001AB
23	CD4518BF		CMS	1	8.0M \dagger	11*	4.0 Δ	3	18e	0.0	15	170n Δ	5.0u	5.0u	500m	4.0 *	5	C	2	45-18B	MO001AC
24#	HEF40192P		CMS	1	8.0M	7.0	3.0 Δ	8	0.0	10	30n			1.0m*	2.0 *	4	8	1	74-192N	DL16bw	
25#	MB84518B		CMS	1	8.0M*	10.5*	4.5 Δ	3	16e	0.0	15	180n Δ	80n	80n	1.2n*	4.5 *	4	8	2	E01-165	DL16ac
26#	MB84518BM		CMS	1	8.0M*	10.5*	4.5 Δ	3	16e	0.0	15	180n Δ	80n	80n	1.2m*	4.5 *	4	8	2	E01-165	DL16cu
27	MC14518BAL		CMS	1	8.0M \dagger	11*	4.0 Δ	3	18e	0.0	15	170n Δ	130n	80n	300m	2.5 *	5	C	2	45-18B	DL16am
28	MC14518BCL		CMS	1	8.0M \dagger	11*	4.0 Δ	3	16e	0.0	15	170n Δ	130n	80n	300m	2.5 *	4	8	2	45-18B	DL16am
29	MC14518BCP		CMS	1	8.0M \dagger	11*	4.0 Δ	3	16e	0.0	15	170n Δ	130n	80n	300m	2.5 *	4	8	2	45-18B	DL16bo
30#	MSM4518		CMS	1	8.0M \dagger	7.2*	2.0 Δ	3	16e	0.0	10	400n Δ	120n	120n	1.4m*	2.0 *	2	7	2	45-18B	DL16cc
31#	HEF4518		CMS	1	10M*	11*	4.0 Δ	3	16e	0.0	15	105n Δ			400m	6.7 \dagger	4	8	2	45-18B	DLZ
32#	HEF4518BDF		CMS	1	10M*	11.0*	4.0 Δ	3	16e	0.0	15	105n Δ			400m	6.7 \dagger	4	8	2	E01-136	DL16at
33#	HEF4518BPN		CMS	1	10M*	11.0*	4.0 Δ	3	16e	0.0	15	105n Δ			400m	6.7 \dagger	4	8	2	E01-136	DL16cc
34#	HEF4518P		CMS	1	10M	7.0	3.0 Δ	3	0.0	10	35n	5.0n*	5.0n*	1.0m*	1.0	2	7	1	45-18B	DL16bw	
35	ICM7226AIDL		CMS	1	10M	2.0*	80 Δ	0	5.0	5.0	10n \dagger	10n \dagger	10n \dagger	500m	2.0	2	7	1	E01-150	DL40b	
36	ICM7226BIPL		CMS	1	10M	2.0*	80 Δ	0	5.0	5.0	10n \dagger	10n \dagger	10n \dagger	500m	2.0	2	7	1	E01-150	DL40g	
37#	TC40H160P		CMS	1	10M*	4.0*	1.0 Δ	9	50	0.0	5.0	60n Δ	1.0u	1.0u	300m	1.0	4	8	1	40H160	DL16cr
38#	TC40H162P		CMS	1	10M*	4.0*	1.0 Δ	9	50	0.0	5.0	60n Δ	1.0u	1.0u	300m	1.0	4	8	1	40H162	DL16cr
39#	TC5032P		CMS	1	10M*	4.9*	0.5 Δ C	8	0.0	5.0	2.0u Δ	400n	200n	300m	1.5	3	8	1	E01-142	DL28h	
40	883/4192B		CMS	1	11M \dagger	8.2	6.7	4	0.0	15	180n			300m	5	C	1	74-192	MO001AG		
41	883/4510B		CMS	1	11M \dagger	8.2	6.7	4	0.0	15	150n			300m	5	C	1	45-10	MO001AG		
42	CD40192BD		CMS	1	11M \dagger	11*	4.0 Δ	8	18e	0.0	15	220n Δ	5.0u	5.0u	500m	4.0 *	5	C	2	74-192N	MO001AD
43	CD40192BE		CMS	1	11M \dagger	11*	4.0 Δ	8	18e	0.0	15	220n Δ	5.0u	5.0u	500m	4.0 *	4	8	2	74-192N	MO001AB
44	CD40192BF		CMS	1	11M \dagger	11*	4.0 Δ	8	18e	0.0	15	220n Δ	5.0u	5.0u	500m	4.0 *	5	C	2	74-192N	MO001AB
45#	HCC4510BD		CMS	1	11M \dagger	11*	4.0 Δ	0	0.0	15	150n Δ			300u%	2.5 *	5	C	1	45-10B	DL16cm	
46#	HCC4510BF		CMS	1	11M \dagger	11*	4.0 Δ	0	0.0	15	150n Δ			300u%	2.5 *	5	C	1	45-10B	DL16aq	
47#	HCC4510BK		CMS	1	11M \dagger	11*	4.0 Δ	0	0.0	15	150n Δ			300u%	2.5 *	5	C	1	45-10B	FP131	
48#	HCF4510BE		CMS	1	11M \dagger	11*	4.0 Δ	0	0.0	15	150n Δ			300u%	2.5 *	4	8	1	45-10B	DL16bi	
49#	HCF4510BF		CMS	1	11M \dagger	11*	4.0 Δ	0	0.0	15	150n Δ			300u%	2.5 *	4	8	1	45-10B	DL16aq	
50	SCL4192B		CMS	1	11M \dagger	8.2	6.7	4	0.0	15	180n			300m	5	C	4	74-192	MO001AG		
51	883/4160B		CMS	1	12M \dagger	8.2	6.7	4	0.0	15	120n			300m	5	C	4	74-160	MO001AG		
52	CD40160BD		CMS	1	12M \dagger	11*	4.0 Δ	9	18e	0.0	15	120n Δ	15u*	15u*	500m	4.0 *	5	C	1	74-160N	MO001AE
53	CD40160BE		CMS	1	12M \dagger	11*	4.0 Δ	9	18e	0.0	15	120n Δ	15u*	15u*	500m	4.0 *	4	8	1	74-160N	MO001AC
54	CD40160BF		CMS	1	12M \dagger	11*	4.0 Δ	9	18e	0.0	15	120n Δ	15u*	15u*	500m	4.0 *	5	C	1	74-160N	MO001AG
55	CD40162BD		CMS	1	12M \dagger	11*	4.0 Δ	9	18e	0.0	15	120n Δ	15u*	15u*	500m	4.0 *	5	C	1	74-162N	MO001AE
56	CD40162BE		CMS	1	12M \dagger	11*	4.0 Δ	9	18e	0.0	15	120n Δ	15u*	15u*	500m	4.0 *	4	8	1	74-162N	MO001AC
57	CD40162BF		CMS	1	12M \dagger	11*	4.0 Δ	9	18e	0.0	15	120n Δ	15u*	15u*	500m	4.0 *	5	C	1	74-162N	MO001AG
58#	HCC40160BD		CMS	1	12M \dagger	11*	4.0 Δ	9	18e	0.0	15	120n Δ	15u*	15u*</							

11. COUNTERS

IN ORDER OF: (1) TECHNOLOGY (2) TYPE OF COUNTER
(3) OPERATING FREQ. (4) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE	MAX. OPER. FREQ. (Hz)	LOGIC LEVEL		FAN		POWER SUPPLY		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. RANGE CODE	PKTS PER MOD	DRAWINGS		
						MIN. '1' (V)	MAX. '0' (V)	IN	OUT MAX	NEG (V)	POS (V)		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE	
1#	HEF4060BPN		CMS	2		11.0*	4.0Δ	8	16e	0.0	15	160n			400m	6.7 †	4	8	1	E02-163	DL16cc
2#	HEF4526		CMS	2		11.0*	4.0Δ	8	16e	0.0	15			400m	6.7 †	4	8	1	45-26B	DLZ	
3#	HEF4526BDF		CMS	2		11.0*	4.0Δ	8	16e	0.0	15			400m	6.7 †	4	8	1	E01-128	DL16at	
4#	HEF4526BPN		CMS	2		11.0*	4.0Δ	8	16e	0.0	15			400m	6.7 †	4	8	1	E01-128	DL16cc	
5#	LC4520B		CMS	2		3.5*	1.5Δ			0.5	20	100n	50n	300m		4	8	2	E01-98	DL16du	
6#	MSM5562		CMS	2		2.7*	.30Δ	3		0.0	3.0			630u		2	7	1	E02-127	DL14bs	
7#	MSM5562A		CMS	2		1.1*	.20Δ	3		0.0	1.5			9.0u		2	7	1	E02-127	DL14bs	
8#	MSM5562RS		CMS	2		3.6*	0.8Δ	3		0.0	7.0				0.6	3	8	1	E02-127	DL14db	
9#	MSM5563		CMS	2		2.7*	.30Δ	3		0.0	3.0			630u		2	7	1	E02-127a	DL14bs	
10#	MSM5563A		CMS	2		1.1*	.20Δ	3		0.0	1.5			9.0u		2	7	1	E02-127a	DL14bs	
11#	MSM5563RS		CMS	2		3.6*	0.8Δ	3		0.0	7.0				0.6	3	8	1	E02-128	DL14db	
12#	MSM5564		CMS	2		2.7*	.30Δ	3		0.0	3.0			630u		2	7	1	E02-128	DL14bs	
13#	MSM5564A		CMS	2		1.1*	.20Δ	3		0.0	1.5			9.0u		2	7	1	E02-128	DL14bs	
14#	MSM5564RS		CMS	2		3.6*	0.8Δ	3		0.0	7.0				0.6	3	8	1	E02-128	DL14db	
15#	MSM5570		CMS	2		2.7*	.30Δ	2		0.0	3.0			630u		2	7	1	E02-125	DL14bs	
16#	MSM5570A		CMS	2		1.1*	.20Δ	2		0.0	1.5			9.0u		2	7	1	E02-125	DL14bs	
17#	MSM5571		CMS	2		2.7*	.30Δ	2		0.0	3.0			630u		2	7	1	E02-125a	DL14bs	
18#	MSM5571A		CMS	2		1.1*	.20Δ	2		0.0	1.5			9.0u		2	7	1	E02-125a	DL14bs	
19#	MSM5572		CMS	2		2.7*	.30Δ	2		0.0	3.0			630u		2	7	1	E02-125b	DL14bs	
20#	MSM5572A		CMS	2		1.1*	.20Δ	2		0.0	1.5			9.0u		2	7	1	E02-125b	DL14bs	
21#	MSM5573		CMS	2		2.7*	.30Δ	2		0.0	3.0			630u		2	7	1	E02-125c	DL14bs	
22#	MSM5573A		CMS	2		1.1*	.20Δ	2		0.0	1.5			9.0u		2	7	1	E02-125c	DL14bs	
23#	MSM5574		CMS	2		2.7*	.30Δ	2		0.0	3.0			630u		2	7	1	E02-125d	DL14bs	
24#	MSM5574A		CMS	2		1.1*	.20Δ	2		0.0	1.5			9.0u		2	7	1	E02-125d	DL14bs	
25#	MSM5576		CMS	2		2.7*	.30Δ	2		0.0	3.0			630u		2	7	1	E02-126	DL14bs	
26#	MSM5576A		CMS	2		1.1*	.20Δ	2		0.0	1.5			9.0u		2	7	1	E02-126	DL14bs	
27#	MSM5576RS		CMS	2		3.6*	0.8Δ	2		0.0	7.0				0.6	3	8	1	E02-126	DL14db	
28#	MSM5577		CMS	2		2.7*	.30Δ	2		0.0	3.0			630u		2	7	1	E02-126a	DL14bs	
29#	MSM5577A		CMS	2		1.1*	.20Δ	2		0.0	1.5			9.0u		2	7	1	E02-126a	DL14bs	
30#	MSM5577RS		CMS	2		3.60*	0.8Δ	2		0.0	7.0				0.6	3	8	1	Eo2126a	DL14db	
31	JANM38510/05603AEA		CMS	2	650k\$	3.95*	-.85Δ	2	7	0.0	5.0	16uΔ			200m		5	C	1	40-20B	DL16bs
32	JANM38510/05603AFA		CMS	2	650k\$	3.95*	-.85Δ	2	7	0.0	5.0	16uΔ			200m		5	C	1	40-20B	FP117
33	JANM38510/05603BEA		CMS	2	650k\$	3.95*	-.85Δ	2	7	0.0	5.0	16uΔ			200m		5	C	1	40-20B	DL16bs
34	JANM38510/05603BEB		CMS	2	650k\$	3.95*	.85Δ	2	7	0.0	5.0	19uΔ			200m		5	C	1	40-20B	DL16br
35	JANM38510/05603BFA		CMS	2	650k\$	3.95*	.85Δ	2	7	0.0	5.0	19uΔ			200m		5	C	1	40-20B	FP117
36	JANM38510/05603CEA		CMS	2	650k\$	3.95*	-.85Δ	2	7	0.0	5.0	16uΔ			200m		5	C	1	40-20B	DL16bs
37	JANM38510/05603CEB		CMS	2	650k\$	3.95*	.85Δ	2	7	0.0	5.0	19uΔ			200m		5	C	1	40-20B	DL16br
38	JANM38510/05603CFA		CMS	2	650k\$	3.95*	.85Δ	2	7	0.0	5.0	19uΔ			200m		5	C	1	40-20B	FP117
39#	TC5027P		CMS	2	800k*	4.9*	.05ΔC	4		0.0	5.0	280nΔ	400n	200n	200m	1.5	5	C	1	E02-186	DL14ch
40#	HD14020B		CMS	2	1.0M	3.5	1.5		4e	0.0	15	400n	400n	200n	300m		4	8	1	E02-103	DL16p
41#	HD14161B		CMS	2	1.0M	3.5	1.5		4e	0.0	15	350n	200n	200n	300m		4	8	4	E01-73	DL16p
42#	HD14163B		CMS	2	1.0M	3.5	1.5		4e	0.0	15	350n	200n	200n	300m		4	8	4	*	DL16p
43#	TC5018P		CMS	2	1.0M*	4.9*	.05ΔC	6		0.0	5.0	1.8uΔ	400n	200n	300m	1.5	3	8	1	E02-185	DL14ch
44	JANM38510/05605ACA		CMS	2	1.1M\$	3.95*	.85Δ	2	7	0.0	5.0	4.6uΔ			200m		5	C	1	40-24B	DL14bp
45	JANM38510/05605ADA		CMS	2	1.1M\$	3.95*	.85Δ	2	7	0.0	5.0	4.6uΔ			200m		5	C	1	40-24B	DL16bs
46	JANM38510/05605BCA		CMS	2	1.1M\$	3.95*	.85Δ	2	7	0.0	5.0	4.6uΔ			200m		5	C	1	40-24B	DL14bo
47	JANM38510/05605BCB		CMS	2	1.1M\$	3.95*	.85Δ	2	7	0.0	5.0	4.6uΔ			200m		5	C	1	40-24B	DL14bo
48	JANM38510/05605BCC		CMS	2	1.1M\$	3.95*	.85Δ	2	7	0.0	5.0	4.6uΔ			200m		5	C	1	40-24B	DL14bo
49	JANM38510/05605BDA		CMS	2	1.1M\$	3.95*	.85Δ	2	7	0.0	5.0	4.6uΔ			200m		5	C	1	40-24B	DL14bo
50	JANM38510/05605CCA		CMS	2	1.1M\$	3.95*	.85Δ	2	7	0.0	5.0	4.6uΔ			200m		5	C	1	40-24B	FP116
51	JANM38510/05605CCB		CMS	2	1.1M\$	3.95*	.85Δ	2	7	0.0	5.0	4.6uΔ			200m		5	C	1	40-24B	DL14bo
52	JANM38510/05605CCC		CMS	2	1.1M\$	3.95*	.85Δ	2	7	0.0	5.0	4.6uΔ			200m		5	C	1	40-24B	DL14bo
53	JANM38510/05605CDA		CMS	2	1.1M\$	3.95*	.85Δ	2	7	0.0	5.0	4.6uΔ			200m		5	C	1	40-24B	DL14bo
54#	MSM4516RS		CMS	2	1.1M\$	3.95*	.85Δ	2	7	0.0	5.0	4.6uΔ	200n	200n	200m	0.6	5	C	1	40-24B	FP116
55	MM54C93D		CMS	2	2.0M\$*	3.5*	1.5Δ	3	10e	0.0	5.0	1.2uΔ	15u	15u	500m	450m†	5	C	1	E02-205	DL16Z
56	MM74C93N		CMS	2	2.0M\$*	3.5*	1.5Δ	3	10e	0.0	5.0	1.2uΔ	15u	15u	500m	450m†	4	8	1	74L93N	DL14bi
57#	MSM5504		CMS	2	2.0M\$*	3.6*	.80Δ	10	15	0.0	5.0	1.0uΔ	5.0u	5.0u	250u		2	7	1	74L93N	DL16bi
58#	MSM5504RS		CMS	2	2.0M\$*	3.6*	0.8Δ	10	15	0.0	7.0	1.0uΔ	500n#	5.0u	250u	0.6	3	8	1	E03-98	DL16cq
59#	MSM5507		CMS	2	2.0M\$*	3.6*	.80Δ	2	15	0.0	5.0	1.0uΔ	5.0u	5.0u	250u		2	7	1	E02-124	DL16f
60#	MSM5507RS		CMS	2	2.0M\$*	3.6*	0.8Δ	2	15	0.0	7.0	300n	500n#	5.0u	250u	0.6	3	8	1	E02-124	DL16cq
61#	MSM5508		CMS	2	2.0M\$*	3.6*	.80Δ	2	15	0.0	5.0	1.0uΔ	5.0u	5.0u	250u		2	7	1	E02-124a	DL16f
62#	MSM5508RS		CMS	2	2.0M\$*	3.6*	0.8Δ	2	15	0.0	7.0	300n	500n#	5.0u	250u	0.6	3	8	1	E02-124a	DL16cq
63#	MSM5538		CMS	2	2.0M\$*	3.6*	.80Δ	4	15	0.0	5.0	1.0uΔ	5.0u	5.0u	250u		2	7	1	74LS93N	DL14bs
64#	MSM5538RS		CMS	2	2.0M\$*	3.6*	0.8Δ	4	15	0.0	7.0	1.0uΔ	500n#	5.0u	250u	0.6	3	8	4	E02-123	DL14db
65#	MSM40193RS		CMS	2	2.0M\$*	3.6*	1.0Δ	4</													

11. COUNTERS

IN ORDER OF: (1) TECHNOLOGY (2) TYPE OF COUNTER
(3) OPERATING FREQ. (4) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE	MAX. OPER. FREQ. (Hz)	LOGIC LEVEL		FAN IN	FAN OUT MAX	POWER SUPPLY		PROPAGATION DELAY (S)	RISE TIME (S)	FALL TIME (S)	MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS		
						MIN. '1' (V)	MAX. '0' (V)			NEG (V)	POS (V)								LOGIC OR BLOCK	OUTLINE	
1	MM74C161N		CMS	2	3.0MS†	3.5*	1.5Δ	9	0.0	5.0	290n				500m	450m†	0	7	1	74-161N	DL16bu
2	MM74C163N		CMS	2	3.0MS†	3.5*	1.5Δ	9	0.0	5.0	290n				500m	450m†	0	7	1	74-163N	DL16bu
3	MM4620AD		CMS	2	3.0MS†	4.99*	.01ΔC	2	12	0.0	5.0	220n			500m	450m†	5	C	1	40-20B	DL16bz
4	MM4620AF		CMS	2	3.0MS†	4.99*	.01ΔC	2	12	0.0	5.0	220n			500m	450m†	5	C	1	40-20B	FP98
5	MM5620AN		CMS	2	3.0MS†	4.99*	.01ΔC	2	12	0.0	5.0	220n			500m	450m†	4	8	1	40-20B	DL16bu
6	M40161BP		CMS	2	3.5M*	11.0*	4.0Δ	9	50	0.0	18	280nΔ	160n	80n	0.5	4.0	4	8	1	40H161	DL16bd
7	M40163BP		CMS	2	3.5M*	11.0*	4.0Δ	9	50	0.0	18	280nΔ	160n	80n	0.5	4.0	4	8	1	40H163	DL16bd
8	TC40161BP		CMS	2	3.5M*	14.9*	.05ΔC	9	0.0	15	280nΔ	160n	80n	300m	4.0	4.0	4	8	1	74-161N	DL16cr
9	TC40163BP		CMS	2	3.5M*	14.9*	.05ΔC	9	0.0	15	280nΔ	160n	80n	300m	4.0	4.0	4	8	1	74-163N	DL16cr
10	CD4020BCJ		CMS	2	4.0MS*	11*	4.0Δ	2	16e	0.0	15	400nΔ			1.2m†	6.7 †	4	8	1	40-20B	DL16au
11	CD4020BCN		CMS	2	4.0MS*	11*	4.0Δ	2	16e	0.0	15	400nΔ			1.2m†	6.7 †	4	8	1	40-20B	DL16bu
12	CD4020BMJ		CMS	2	4.0MS*	11*	4.0Δ	2	19e	0.0	15	400nΔ			300u†	6.7 †	5	C	1	40-20B	DL16au
13	CD4020BMW		CMS	2	4.0MS*	11*	4.0Δ	2	19e	0.0	15	400nΔ			300u†	6.7 †	5	C	1	40-20B	FP88c
14	CD4060BCJ		CMS	2	4.0MS*	11*	4.0Δ	4	16e	0.0	15	400nΔ			1.2m†	6.7 †	4	8	1	40-60B	DL16au
15	CD4060BCN		CMS	2	4.0MS*	11*	4.0Δ	4	16e	0.0	15	400nΔ			1.2m†	6.7 †	4	8	1	40-60B	DL16bu
16	CD4060BMJ		CMS	2	4.0MS*	11*	4.0Δ	4	19e	0.0	15	400nΔ			300u†	6.7 †	5	C	1	40-60B	DL16au
17	CD4060BMW		CMS	2	4.0MS*	11*	4.0Δ	4	19e	0.0	15	400nΔ			300u†	6.7 †	5	C	1	40-60B	FP88c
18	CD4520BCJ		CMS	2	4.0MS*	11*	4.0Δ	3	16e	0.0	15	170nΔ	5.0u*	5.0u*	1.2m†	6.7 †	4	8	2	45-20B	DL16au
19	CD4520BCN		CMS	2	4.0MS*	11*	4.0Δ	3	16e	0.0	15	170nΔ	5.0u*	5.0u*	1.2m†	6.7 †	4	8	2	45-20B	DL16bu
20	CD4520BMJ		CMS	2	4.0MS*	11*	4.0Δ	3	19e	0.0	15	170nΔ	5.0u*	5.0u*	300u†	6.7 †	5	C	2	45-20B	DL16au
21	CD4520BMW		CMS	2	4.0MS*	11*	4.0Δ	3	19e	0.0	15	170nΔ	5.0u*	5.0u*	300u†	6.7 †	5	C	2	45-20B	FP88c
22	M4520BP		CMS	2	4.0M*	11*	4.0Δ	3	50	0.0	18	240nΔ	160n	80n	0.5	4.0	4	8	2	45-20	DL16bd
23	MC14526BAL		CMS	2	4.0M*	11*	4.0Δ	9	50	0.0	15	240n	110n	55n	300u†	2.5 *	5	C	1	45-26B	DL16am
24	MM54C193D		CMS	2	4.0M†	3.5*	1.5Δ	8	0.0	5.0	250n				500m	450m†	5	C	1	74-193N	DL16bz
25	MM74C193N		CMS	2	4.0M†	3.5*	1.5Δ	8	0.0	5.0	250n				500m	450m†	0	7	1	74-193N	DL16bu
26	MSM4020RS		CMS	2	4.0M†	3.6*	1.0Δ	40	0.3	16	800n	200n	200n	200m	0.6	4.0	4	8	1	E02-175	DL16Z
27	MSM4040RS		CMS	2	4.0M†	3.6*	1.0Δ	40	0.3	16	800n	200n	200n	200m	0.6	4.0	4	8	1	E02-175a	DL16Z
28	MSM4520RS		CMS	2	4.0M†	3.6*	1.0Δ	40	0.3	16	800n	200n	200n	200m	0.6	4.0	4	8	2	E01-136	DL16Z
29	MSM5532RS		CMS	2	4.0M†	3.6*	0.8Δ	4	40e	7.0	300n	500n#	200n	200m	0.6	3.0	4	8	4	E02-204	DL14db
30	TC4520BP		CMS	2	4.0M*	14.9*	.05ΔC	3	0.0	15	240nΔ	160n	80n	300m	4.0	4.0	4	8	2	45-20B	DL16cr
31	MB84060B		CMS	2	4.5MS*	10.5*	4.5Δ	4	16e	0.0	15	776nΔ	80n	80n	1.2m†	4.5 *	4	8	1	E02-181	DL16as
32	MB84060BM		CMS	2	4.5MS*	10.5*	4.5Δ	4	16e	0.0	15	776nΔ	80n	80n	1.2m†	4.5 *	4	8	1	E02-181	DL16cu
33	4520BDC		CMS	2	5.0M*	11*	4.0Δ	3	25e	0.0	15	168nΔ			9.0m†	6.7 †	4	8	2	45-20B	DL16cj
34	4520BDM		CMS	2	5.0M*	11*	4.0Δ	3	25e	0.0	15	168nΔ			9.0m†	6.7 †	5	C	2	45-20B	DL16cj
35	4520BFC		CMS	2	5.0M*	11*	4.0Δ	3	25e	0.0	15	168nΔ			9.0m†	6.7 †	4	8	2	45-20B	FP103
36	4520BFM		CMS	2	5.0M*	11*	4.0Δ	3	25e	0.0	15	168nΔ			9.0m†	6.7 †	5	C	2	45-20B	FP103
37	4520BPC		CMS	2	5.0M*	11*	4.0Δ	3	25e	0.0	15	168nΔ			9.0m†	6.7 †	4	8	2	45-20B	
38	4727BDC		CMS	2	5.0M*	11*	4.0Δ	5	25e	0.0	15	400n			9.0m†	6.7 †	4	8		E02-169	TO116
39	4727BDM		CMS	2	5.0M*	11*	4.0Δ	5	25e	0.0	15	400n			9.0m†	6.7 †	5	C		E02-169	TO116
40	4727BFC		CMS	2	5.0M*	11*	4.0Δ	5	25e	0.0	15	400n			9.0m†	6.7 †	4	8		E02-169	FP21h
41	4727BFM		CMS	2	5.0M*	11*	4.0Δ	5	25e	0.0	15	400n			9.0m†	6.7 †	5	C		E02-169	FP21h
42	4727BPC		CMS	2	5.0M*	11*	4.0Δ	5	25e	0.0	15	400n			9.0m†	6.7 †	4	8		E02-169	DL14ce
43	4737BDC		CMS	2	5.0M*	11*	4.0Δ	4	25e	0.0	15	400n			9.0m†	6.7 †	4	8	1	E02-170	TO116
44	4737BDM		CMS	2	5.0M*	11*	4.0Δ	4	25e	0.0	15	400n			9.0m†	6.7 †	5	C	1	E02-170	TO116
45	4737BFC		CMS	2	5.0M*	11*	4.0Δ	4	25e	0.0	15	400n			9.0m†	6.7 †	4	8	1	E02-170	FP21h
46	4737BFM		CMS	2	5.0M*	11*	4.0Δ	4	25e	0.0	15	400n			9.0m†	6.7 †	5	C	1	E02-170	FP21h
47	4737BPC		CMS	2	5.0M*	11*	4.0Δ	4	25e	0.0	15	400n			9.0m†	6.7 †	4	8	1	E02-170	DL14ce
48	40193BDC		CMS	2	5.0M*	11*	4.0Δ	4	25e	0.0	15	270nΔ			9.0m†	6.7 †	4	8	1	74-193	DL16cj
49	40193BDM		CMS	2	5.0M*	11*	4.0Δ	4	25e	0.0	15	270nΔ			9.0m†	6.7 †	5	C	1	74-193	DL16cj
50	40193BFC		CMS	2	5.0M*	11*	4.0Δ	4	25e	0.0	15	270nΔ			9.0m†	6.7 †	4	8	1	54-193W	FP103
51	40193BFM		CMS	2	5.0M*	11*	4.0Δ	4	25e	0.0	15	270nΔ			9.0m†	6.7 †	5	C	1	54-193W	FP103
52	40193BDC		CMS	2	5.0M*	11*	4.0Δ	4	25e	0.0	15	270nΔ			9.0m†	6.7 †	4	8	1	74-193	
53	CD4024BCJ		CMS	2	5.0MS*	11*	4.0Δ	2	16e	0.0	15	100nΔ	8.0u	8.0u	1.2m†	6.7 †	4	8	1	40-24B	DL14az
54	CD4024BCN		CMS	2	5.0MS*	11*	4.0Δ	2	16e	0.0	15	100nΔ	8.0u	8.0u	1.2m†	6.7 †	4	8	1	40-24B	DL14bt
55	CD4024BMJ		CMS	2	5.0MS*	11*	4.0Δ	2	19e	0.0	15	100nΔ	8.0u	8.0u	300u†	6.7 †	5	C	1	40-24B	DL14az
56	CD4024BMW		CMS	2	5.0MS*	11*	4.0Δ	2	19e	0.0	15	100nΔ	8.0u	8.0u	300u†	6.7 †	5	C	1	40-24B	FP97c
57	CD4040AD		CMS	2	5.0M†	10	0.0C	2	50	0.0	10	450nΔ	7.5u	7.5u	250u†	4.5 †	5	C	1	40-40B	MO001AE
58	CD4040AE		CMS	2	5.0M†	10	0.0C	2	50	0.0	10	475nΔ	7.5u	7.5u	1.0m†	4.5 †	4	8	1	40-40B	MO001AC
59	CD4040AF		CMS	2	5.0M†	9.99*	.01ΔC	2	50	0.0	10	450nΔ	7.5u	7.5u	250u†	4.5 †	5	C	1	40-40B	MO001AC
60	CD4040BCJ		CMS	2	5.0MS*	11*	4.0Δ	2	16e	0.0	15	150nΔ			1.2m†	6.7 †	4	8	1	40-40B	DL16au
61	CD4040BCN		CMS	2	5.0MS*	11*	4.0Δ	2	16e	0.0	15	150nΔ			1.2m†	6.7 †	4	8	1	40-40B	DL16bu
62	CD4040BMJ		CMS	2	5.0MS*	11*	4.0Δ	2	19e	0.0	15	150nΔ			300u†	6.7 †	5	C	1	40-40B	DL16au
63	CD4040BMW		CMS	2	5.0MS*	11*	4.0Δ	2	19e	0.0	15	150nΔ			300u†	6.7 †	5	C	1	40-40B	FP88c
64	CD4516BCJ		CMS	2	5.0MS*	11*	4.0Δ	9	16e	0.0	15	200nΔ	15u*	15u*	1.2m†	6.7 †	4	8	1	45-16B	DL16au
65	CD4516BCN		CMS	2	5.0MS*	11*	4.0Δ	9	16e	0.0	15	200nΔ	15u*	15u*	1.2m†	6.7 †	4	8	1	45-16B	DL16bu
66	CD4516BMJ		CMS	2	5.0MS*	11*	4.0Δ	9	19e	0.0	15	200nΔ	15u*	15u*	300u†	6.7 †	5	C	1	45-16B	DL16au
67	CD4516BMW		CMS	2	5.0MS*	11*	4.0Δ	9	19e	0.0	15	200nΔ	15u*	15u*	300u†	6.7 †	5	C	1	45-16B	FP88c
68	HBC4040AD		CMS	2	5.0M†	10	0.0C	2	50	0.0	10	450nΔ	15u	7.5u	250u†	4.5 †	5	C	1	40-40B	MO001AE
69	HBC4040AF		CMS	2	5.0M†	10	0.0C	2	50	0.0	10	450nΔ	15u	7.5u	250u†	4.5 †	5</				

11. COUNTERS

IN ORDER OF (1) TECHNOLOGY (2) TYPE OF COUNTER
(3) OPERATING FREQ. (4) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE	MAX. OPER. FREQ. (Hz)	LOGIC LEVEL		FAN		POWER SUPPLY SPAN		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE (°C)	CKTS PER MOD	DRAWINGS		
						MIN. '1' (V)	MAX. '0' (V)	IN	OUT MAX	NEG (V)	POS (V)		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE	
1#	HBC4020AD		CMS	2	7.0MS†	10	0.0C	2	2	0.0	10	150nΔ	15u*	15u*	250u*	4.5 †	5	5	1	40-20B	MO001AE
2#	HBC4020AF		CMS	2	7.0MS†	10	0.0C	2	2	0.0	10	150nΔ	15u*	15u*	250u*	4.5 †	5	5	1	40-20B	MO001AE
3#	HBC4020AK		CMS	2	7.0MS†	10	0.0C	2	2	0.0	10	150nΔ	15u*	15u*	250u*	4.5 †	5	5	1	40-20B	MO004AG
4#	HBC4024AD		CMS	2	7.0MS†	10	0.0C	2	50	0.0	10	125nΔ	10u*	10u*	100u*	4.5 †	5	5	1	40-24B	MO001AD
5#	HBC4024AF		CMS	2	7.0MS†	10	0.0C	2	50	0.0	10	125nΔ	10u*	10u*	100u*	4.5 †	5	5	1	40-24B	MO001AD
6#	HBC4024AK		CMS	2	7.0MS†	10	0.0C	2	50	0.0	10	125nΔ	10u*	10u*	100u*	4.5 †	5	5	1	40-24B	MO004AF
7#	HBF4020AE		CMS	2	7.0MS†	10	0.0C	2	2	0.0	10	150nΔ	15u*	15u*	1.0m*	4.5 †	4	8	1	40-20B	MO001AC
8#	HBF4020AF		CMS	2	7.0MS†	10	0.0C	2	2	0.0	10	150nΔ	15u*	15u*	1.0m*	4.5 †	4	8	1	40-20B	MO001AE
9#	HBF4024AE		CMS	2	7.0MS†	10	0.0C	2	50	0.0	10	150nΔ	10u*	10u*	1.0m*	4.5 †	4	8	1	40-24B	MO001AB
10#	HBF4024AF		CMS	2	7.0MS†	10	0.0C	2	50	0.0	10	150nΔ	10u*	10u*	1.0m*	4.5 †	4	8	1	40-24B	MO001AD
11#	SFF24024AKM		CMS	2	7.0M	9.99*	.01ΔC	2	2	0.0	10	125nΔ	125n	125n	200m	3.0 *	5	5	1	40-24B	TO116
12#	TC40193BP		CMS	2	7.0MS†	14.9*	.05ΔC	8	50	0.0	15	300nΔ	160n	80n	300m	2.5 *	4	8	1	74-193N	DL16cr
13	CD40193BCJ		CMS	2	7.5M*	11*	4.0Δ	8	16e	0.0	15	150nΔ	2.0u*	2.0u*	1.2m*	6.7 †	4	8	1	74-193N	DL16cu
14	CD40193BCN		CMS	2	7.5M*	11*	4.0Δ	8	16e	0.0	15	150nΔ	2.0u*	2.0u*	1.2m*	6.7 †	4	8	1	74-193N	DL16cu
15	CD40193BMJ		CMS	2	7.5M*	11*	4.0Δ	8	19e	0.0	15	150nΔ	2.0u*	2.0u*	300u*	6.7 †	5	5	1	74-193N	DL16cu
16	CD40193BMW		CMS	2	7.5M*	11*	4.0Δ	8	19e	0.0	15	150nΔ	2.0u*	2.0u*	300u*	6.7 †	5	5	1	54-193W	FP88c
17	CD4526BC		CMS	2	7.7M†	7.0	3.0	2	2	0	15	50n	500m	4.5 †	4	8	1	45-26B	DLZ		
18	CD4526BM		CMS	2	7.7M†	7.0	3.0	2	2	0	15	50n	500m	4.5 †	4	8	1	45-26B	DLZ		
19	883/4520B		CMS	2	8.0MS†	8.2	6.7	9	25e	0.0	15	160n	300m	6.7 †	4	8	2	45-20B	MO001AG		
20	40161BDC		CMS	2	8.0M*	11*	4.0Δ	9	25e	0.0	15	104nΔ	9.0m*	6.7 †	4	8	1	74-161N	DL16cj		
21	40161BDM		CMS	2	8.0M*	11*	4.0Δ	9	25e	0.0	15	104nΔ	9.0m*	6.7 †	4	8	1	74-161N	DL16cj		
22	40161BFC		CMS	2	8.0M*	11*	4.0Δ	9	25e	0.0	15	104nΔ	9.0m*	6.7 †	4	8	1	54-161W	FP103		
23	40161BFM		CMS	2	8.0M*	11*	4.0Δ	9	25e	0.0	15	104nΔ	9.0m*	6.7 †	4	8	1	54-161W	FP103		
24	40161BPC		CMS	2	8.0M*	11*	4.0Δ	9	25e	0.0	15	104nΔ	9.0m*	6.7 †	4	8	1	74-161N	*		
25	40163BDC		CMS	2	8.0M*	11*	4.0Δ	9	25e	0.0	15	104nΔ	9.0m*	6.7 †	4	8	1	74-163N	DL16cj		
26	40163BDM		CMS	2	8.0M*	11*	4.0Δ	9	25e	0.0	15	104nΔ	9.0m*	6.7 †	4	8	1	74-163N	DL16cj		
27	40163BFC		CMS	2	8.0M*	11*	4.0Δ	9	25e	0.0	15	104nΔ	9.0m*	6.7 †	4	8	1	54-163W	FP103		
28	40163BFM		CMS	2	8.0M*	11*	4.0Δ	9	25e	0.0	15	104nΔ	9.0m*	6.7 †	4	8	1	54-163W	FP103		
29	40163BPC		CMS	2	8.0M*	11*	4.0Δ	9	25e	0.0	15	104nΔ	9.0m*	6.7 †	4	8	1	74-163N	*		
30	CD4520BD		CMS	2	8.0MS†	11*	4.0Δ	3	18e	0.0	15	170nΔ	5.0u	5.0u	500m	4.0 *	5	5	2	45-20B	MO001AE
31	CD4520BE		CMS	2	8.0MS†	11*	4.0Δ	3	18e	0.0	15	170nΔ	5.0u	5.0u	500m	4.0 *	4	8	2	45-20B	MO001AC
32	CD4520BF		CMS	2	8.0MS†	11*	4.0Δ	3	18e	0.0	15	170nΔ	5.0u	5.0u	500m	4.0 *	5	5	2	45-20B	MO001AC
33#	HEF40193P		CMS	2	8.0M	7.0*	3.0Δ	8	0	0.0	10	30n	1.0m*	2.0 *	4	8	1	74-193N	DL16bw		
34#	MB84520B		CMS	2	8.0MS*	10.5*	4.5Δ	3	16e	0.0	15	180nΔ	80n	80n	1.2m*	4.5 *	4	8	2	E02-182	DL16as
35#	MB84520BM		CMS	2	8.0MS*	10.5*	4.5Δ	3	16e	0.0	15	180nΔ	80n	80n	1.2m*	4.5 *	4	8	2	E02-182	DL16cu
36#	MB84524B		CMS	2	8.0MS*	10.5*	4.5Δ	2	16e	0.0	15	332nΔ	80n	80n	1.2m*	4.5 *	4	8	1	E02-185	DL14cc
37#	MB84524BM		CMS	2	8.0MS*	10.5*	4.5Δ	2	16e	0.0	15	332nΔ	80n	80n	1.2m*	4.5 *	4	8	1	E02-185	DL14bn
38	MC14161BAL		CMS	2	8.0MS†	11*	4.0Δ	10	16e	0.0	15	250nΔ	80n	80n	2.5 *	5	5	1	74-161N	DL16am	
39	MC14161BCL		CMS	2	8.0MS†	11*	4.0Δ	10	16e	0.0	15	250nΔ	80n	80n	2.5 *	4	8	1	74-161N	DL16am	
40	MC14161BCP		CMS	2	8.0MS†	11*	4.0Δ	10	16e	0.0	15	250nΔ	80n	80n	2.5 *	4	8	1	74-161N	DL16am	
41	MC14163BAL		CMS	2	8.0MS†	11*	4.0Δ	10	18e	0.0	15	250nΔ	80n	80n	2.5 *	5	5	1	74-163N	DL16am	
42	MC14163BCL		CMS	2	8.0MS†	11*	4.0Δ	10	16e	0.0	15	250nΔ	80n	80n	2.5 *	4	8	1	74-163N	DL16am	
43	MC14163BCP		CMS	2	8.0MS†	11*	4.0Δ	10	16e	0.0	15	250nΔ	80n	80n	2.5 *	4	8	1	74-163N	DL16bo	
44	MC14520BAL		CMS	2	8.0MS†	11*	4.0Δ	3	18e	0.0	15	175nΔ	130n	80n	2.5 *	5	5	2	45-20B	DL16am	
45	MC14520BCL		CMS	2	8.0MS†	11*	4.0Δ	3	16e	0.0	15	175nΔ	130n	80n	2.5 *	4	8	2	45-20B	DL16am	
46	MC14520BCP		CMS	2	8.0MS†	11*	4.0Δ	3	16e	0.0	15	175nΔ	130n	80n	2.5 *	4	8	2	45-20B	DL16bo	
47#	MSM4520		CMS	2	8.0MS†	7.2*	2.0Δ	3	16e	0.0	10	400nΔ	120n	120n	1.4m*	2.0 *	2	7	1	40-20B	DL16bo
48	SCL4020B		CMS	2	8.0M†	9.95*	.05ΔC	2	50	0.0	10	200nΔ	100u*	3.0	5	5	1	40-20B	DL16cq		
49	SCL4024B		CMS	2	8.0M†	9.95*	.05ΔC	2	50	0.0	10	200nΔ	100u*	3.0	4	8	1	40-24B	DL16ar		
50	SCL4040B		CMS	2	8.0M†	9.95*	.05ΔC	2	50	0.0	10	200nΔ	100u*	3.0	5	5	1	E02-143	DL16ar		
51	SCL4060B		CMS	2	8.0M†	9.95*	.05ΔC	2	50	0.0	10	650nΔ	100u*	3.0	5	5	1	E02-163	CHJZ		
52	SCL4161B		CMS	2	8.5M†	9.95*	.05ΔC	10	50	0.0	10	190nΔ	100u*	3.0	5	5	1	74-161	DL16ar		
53	SCL4163B		CMS	2	8.5M†	9.95*	.05ΔC	10	50	0.0	10	190nΔ	100u*	3.0	5	5	1	74-163	DL16ar		
54	883/4404B		CMS	2	10MS	8.2	6.7	9	50	0.0	15	200n	300m	1.0	5	5	1	44-04	MO001AA		
55#	HEF4520		CMS	2	10M*	11*	4.0Δ	3	16e	0.0	15	105nΔ	400m	6.7 †	4	8	2	45-20B	MTZ		
56#	HEF4520BDF		CMS	2	10M*	11.0*	4.0Δ	3	16e	0.0	15	105nΔ	400m	6.7 †	4	8	2	E01-136	DL16at		
57#	HEF4520BPN		CMS	2	10M*	11.0*	4.0Δ	3	16e	0.0	15	105nΔ	400m	6.7 †	4	8	2	E01-136	DL16cc		
58#	HEF4520P		CMS	2	10M*	9.99*	.01ΔC	3	0	0.0	10	35n	300u*	4.5 †	4	8	2	45-20B	DL16bw		
59#	M702B1		CMS	2	10MS	9.99*	.01ΔC	2	0	0.0	15	20n†	20n†	200m	4.5 †	4	8	1	E02-197	DL8ad	
60#	M702D1		CMS	2	10MS	9.99*	.01ΔC	2	0	0.0	15	20n†	20n†	200m	4.5 †	4	8	1	E02-197	TO99	
61#	MB84020B		CMS	2	10MS*	10.5*	4.5Δ	2	16e	0.0	15	556nΔ	80n	80n	1.2m*	4.5 *	4	8	1	E02-183	DL16as
62#	MB84020BM		CMS	2	10MS*	10.5*	4.5Δ	2	16e	0.0	15	556nΔ	80n	80n	1.2m*	4.5 *	4	8	1	E02-183	DL16cu
63#	MB84040B		CMS	2	10MS*	10.5*	4.5Δ	2	16e	0.0	15	492nΔ	80n	80n	1.2m*	4.5 *	4	8	1	E02-184	DL16as
64#	MB84040BM		CMS	2	10MS*	10.5*	4.5Δ	2	16e	0.0	15	492nΔ	80n	80n	1.2m*	4.5 *	4	8	1	E02-184	DL16cu
65#	MSM4020		CMS	2	10MS†	7.2*	2.0Δ	2	16e	0.0	10	300nΔ	120n	120n	1.4m*	2.0 *	2	7	1	40-20B	DL16cq
66#	MSM4040		CMS	2	10MS†	7.2*	2.0Δ	2	16e	0.0	10	300nΔ	120n	120n	1.4m*	2.0 *	2	7	1	40-20B	DL16cq
67	TA6179W		CMS	2	10M†	5.0	0.0C	2	2	0.0	5.0	125n	10u†	10u†	200m	2.0 †	5	5	1	40-20B	MO001AE
68#	TC40H161P		CMS	2	10M*	4.0*	1.0Δ	9	50	0.0	5.0	60nΔ	1.0u	1.0u	300m	1.0	4	8	1	40H161	DL16cr
69#	TC40H163P		CMS	2	10M*	4.0*	1.0Δ	9	50	0.0	5.0	60nΔ	1.0u	1.0u	300m	1.0	4	8	1	40H163	DL16cr
70	883/4020B		CMS	2	11MS	8.2	6.7	4	0	0.0	15	130n	300m	1.0	5	5	1	40-20B	MO001AG		

11. COUNTERS

IN ORDER OF:(1)TECHNOLOGY(2)TYPE OF COUNTER
(3)OPERATING FREQ.(4)TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE	MAX. OPER. FREQ. (Hz)	LOGIC LEVEL		FAN IN	FAN OUT	POWER SUPPLY		PROPAGATION DELAY (S)	RISE TIME (S)	FALL TIME (S)	MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS		
						MIN. '1' (V)	MAX. '0' (V)			NEG (V)	POS (V)								LOGIC OR BLOCK	OUTLINE	
1	HEF40193BDF		CMS	2	13M*	11.0*	4.0Δ	8	16e	0.0	15	205nΔ			400m	6.7 †	4	8	1	74-193N	DL16at
2	HEF40193BPN		CMS	2	13M*	11.0*	4.0Δ	8	16e	0.0	15	205nΔ			400m	6.7 †	4	8	1	74-193N	DL16cc
3	MC14020BAL		CMS	2	13M\$†	11*	4.0Δ	2	18e	0.0	15	1.5μΔ	130n	80n		2.5 *	5	C	1	40-20B	DL16am
4	MC14020BCL		CMS	2	13M\$†	11*	4.0Δ	2	16e	0.0	15	1.5μΔ	130n	80n		2.5 *	4	8	1	40-20B	DL16am
5	MC14020BCP		CMS	2	13M\$†	11*	4.0Δ	2	16e	0.0	15	1.5μΔ	130n	80n		2.5 *	4	8	1	40-20B	DL16bo
6	MC14040BAL		CMS	2	13M\$†	11*	4.0Δ	2	18e	0.0	15	450nΔ	130n	80n		2.5 *	5	C	1	40-40B	DL16am
7	MC14040BCL		CMS	2	13M\$†	11*	4.0Δ	2	16e	0.0	15	450nΔ	130n	80n		2.5 *	4	8	1	40-40B	DL16am
8	MC14040BCP		CMS	2	13M\$†	11*	4.0Δ	2	16e	0.0	15	450nΔ	130n	80n		2.5 *	4	8	1	40-40B	DL16bo
9	4020BDC		CMS	2	14M*	11*	4.0Δ	2	25e	0.0	15	120nΔ			9.0m%	6.7 †	4	8	1	40-20B	DL16cj
10	4020BDM		CMS	2	14M*	11*	4.0Δ	2	25e	0.0	15	120nΔ			9.0m%	6.7 †	5	C	1	40-20B	DL16cj
11	4020BFC		CMS	2	14M*	11*	4.0Δ	2	25e	0.0	15	120nΔ			9.0m%	6.7 †	4	8	1	40-20B	FP103
12	4020BFM		CMS	2	14M*	11*	4.0Δ	2	25e	0.0	15	120nΔ			9.0m%	6.7 †	5	C	1	40-20B	FP103
13	4020BPC		CMS	2	14M*	11*	4.0Δ	2	25e	0.0	15	120nΔ			9.0m%	6.7 †	4	8	1	40-20B	*
14	4040BDC		CMS	2	14M*	11*	4.0Δ	2	25e	0.0	15	120nΔ			9.0m%	6.7 †	4	8	1	40-40B	DL16cj
15	4040BDM		CMS	2	14M*	11*	4.0Δ	2	25e	0.0	15	120nΔ			9.0m%	6.7 †	5	C	1	40-40B	DL16cj
16	4040BFC		CMS	2	14M*	11*	4.0Δ	2	25e	0.0	15	120nΔ			9.0m%	6.7 †	4	8	1	40-40B	FP103
17	4040BFM		CMS	2	14M*	11*	4.0Δ	2	25e	0.0	15	120nΔ			9.0m%	6.7 †	5	C	1	40-40B	FP103
18	4040BPC		CMS	2	14M*	11*	4.0Δ	2	25e	0.0	15	120nΔ			9.0m%	6.7 †	4	8	1	40-40B	*
19#	HEF4020P		CMS	2	15M\$†	9.95*	.05ΔC	2		0.0	10	150nΔ	5.0n*	5.0n*	1.0m%	4	8	1	40-22B	DL16bw	
20#	TC40H393P		CMS	2	15M*	4.0*	1.0Δ		50	0.0	5.0	63nΔ	1.0u	1.0u	300m	1.0	4	8	2	40H393	DL14ch
21#	HEF4060BTD		CMS	2	16M	11.0*	4.0Δ	4	50e	0.0	15	16nΔ			200m	6.7 †	4	8	1	E02-163	FP148
22#	HEF4516		CMS	2	17M*	11*	4.0Δ	8	16e	0.0	15	150nΔ			400m	6.7 †	4	8	1	45-16	DL
23#	HEF4516BDF		CMS	2	17M*	11.0*	4.0Δ	8	16e	0.0	15	150nΔ			400m	6.7 †	4	8	1	E01-126a	DL16at
24#	HEF4516BPN		CMS	2	17M*	11.0*	4.0Δ	8	16e	0.0	15	150nΔ			400m	6.7 †	4	8	1	E01-126a	DL16cc
25#	HEF40161		CMS	2	17M*	11*	4.0Δ	8	16e	0.0	15	85nΔ			400m	6.7 †	4	8	1	74-161N	DL
26#	HEF40161BDF		CMS	2	17M*	11.0*	4.0Δ	8	16e	0.0	15	85nΔ			400m	6.7 †	4	8	1	74-161N	DL16at
27#	HEF40161BPN		CMS	2	17M*	11.0*	4.0Δ	8	16e	0.0	15	85nΔ			400m	6.7 †	4	8	1	74-161N	DL16cc
28#	HEF40163		CMS	2	17M*	11*	4.0Δ	8	16e	0.0	15	80nΔ			400m	6.7 †	4	8	1	74-163N	DL
29#	HEF40163BDF		CMS	2	17M*	11.0*	4.0Δ	8	16e	0.0	15	80nΔ			400m	6.7 †	4	8	1	74-163N	DL16at
30#	HEF40163BPN		CMS	2	17M*	11.0*	4.0Δ	8	16e	0.0	15	80nΔ			400m	6.7 †	4	8	1	74-163N	DL16cc
31	4024BDC		CMS	2	18M*	11*	4.0Δ	2	25e	0.0	15	80nΔ			9.0m%	6.7 †	4	8	1	40-24B	TO116
32	4024BDM		CMS	2	18M*	11*	4.0Δ	2	25e	0.0	15	80nΔ			9.0m%	6.7 †	5	C	1	40-24B	TO116
33	4024BFC		CMS	2	18M*	11*	4.0Δ	2	25e	0.0	15	80nΔ			9.0m%	6.7 †	4	8	1	40-24B	FP21h
34	4024BFM		CMS	2	18M*	11*	4.0Δ	2	25e	0.0	15	80nΔ			9.0m%	6.7 †	5	C	1	40-24B	FP21h
35	4024BPC		CMS	2	18M*	11*	4.0Δ	2	25e	0.0	15	80nΔ			9.0m%	6.7 †	4	8	1	40-24B	DL14ce
36#	HEF4020		CMS	2	18M*	11*	4.0Δ	2	16e	0.0	15	140nΔ			400m	6.7 †	4	8	1	40-20B	DL
37#	HEF4020BDF		CMS	2	18M*	11.0*	4.0Δ	2	18e	0.0	15	140nΔ			400m	6.7 †	4	8	1	E02-153	DL16at
38#	HEF4020BPN		CMS	2	18M*	11.0*	4.0Δ	2	18e	0.0	15	140nΔ			400m	6.7 †	4	8	1	E02-153	DL16cc
39#	HEF4024		CMS	2	18M*	11*	4.0Δ	2	16e	0.0	15	60nΔ			400m	6.7 †	4	8	1	40-24B	DL
40#	HEF4024BDF		CMS	2	18M*	11.0*	4.0Δ	2	16e	0.0	15	60nΔ			400m	6.7 †	4	8	1	40-24	DL14bg
41#	HEF4024BPN		CMS	2	18M*	11.0*	4.0Δ	2	16e	0.0	15	60nΔ			400m	6.7 †	4	8	1	40-24	DL14bv
42#	HEF4040		CMS	2	18M*	11*	4.0Δ	2	16e	0.0	15	140nΔ			400m	6.7 †	4	8	1	40-40B	DL
43#	HEF4040BDF		CMS	2	18M*	11.0*	4.0Δ	2	16e	0.0	15	140nΔ			400m	6.7 †	4	8	1	E02-155	DL16at
44#	HEF4040BPN		CMS	2	18M*	11.0*	4.0Δ	2	16e	0.0	15	140nΔ			400m	6.7 †	4	8	1	E02-155	DL16cc
45#	HEF4520BTD		CMS	2	21M	11.0*	4.0Δ	3	50e	0.0	15	105nΔ			200m	6.7 †	4	8	2	E01-136	FP148
46	CD4020BD		CMS	2	24M†	11*	4.0Δ	2	18e	0.0	15	130nΔ	20n#		500m	2.5 †	5	C	1	40-20B	MO001AE
47	CD4020BE		CMS	2	24M†	11*	4.0Δ	2	18e	0.0	15	130nΔ	20n#		500m	4.0 *	5	C	1	40-20B	MO001AC
48	CD4020BF		CMS	2	24M†	11*	4.0Δ	2	18e	0.0	15	130nΔ	20n#		500m	4.0 *	5	C	1	40-20B	MO001AG
49	CD4024BD		CMS	2	24M†	11*	4.0Δ	2	18e	0.0	15	130nΔ	20n#		500m	4.0 *	5	C	1	E02-160	MO001AD
50	CD4024BE		CMS	2	24M†	11*	4.0Δ	2	18e	0.0	15	130nΔ	20n#		500m	4.0 *	4	8	1	40-24B	MO001AB
51	CD4024BF		CMS	2	24M†	11*	4.0Δ	2	18e	0.0	15	130nΔ	20n#		500m	4.0 *	5	C	1	40-24B	MO001AB
52	CD4040BD		CMS	2	24M†	11*	4.0Δ	2	18e	0.0	15	130nΔ	20n#		500m	4.0 *	5	C	1	40-40B	MO001AD
53	CD4040BE		CMS	2	24M†	11*	4.0Δ	2	18e	0.0	15	130nΔ	20n#		500m	4.0 *	4	8	1	40-40B	MO001AB
54	CD4040BF		CMS	2	24M†	11*	4.0Δ	2	18e	0.0	15	130nΔ	20n#		500m	4.0 *	5	C	1	E02-161	MO001AB
55	CD4060BD		CMS	2	24M†	11*	4.0Δ	4	18e	0.0	15	240nΔ	20n#		500m	4.0 *	5	C	1	40-60B	MO001AE
56	CD4060BE		CMS	2	24M†	11*	4.0Δ	4	18e	0.0	15	240nΔ	20n#		500m	4.0 *	4	8	1	40-60B	MO001AC
57	CD4060BF		CMS	2	24M†	11*	4.0Δ	4	18e	0.0	15	240nΔ	20n#		500m	4.0 *	5	C	1	40-60B	MO001AC
58	CD4060BH		CMS	2	24M†	11*	4.0Δ	4	18e	0.0	15	240nΔ	20n#		500m	4.0 *	5	C	1	E02-163	CHI30
59#	HCC4020BD		CMS	2	24M†	11*	4.0Δ	2	18e	0.0	5.0	130nΔ	20n#		500m	5	C	1	40-20B	DL16cm	
60#	HCC4020BF		CMS	2	24M†	11*	4.0Δ	2	18e	0.0	5.0	130nΔ	20n#		500m	5	C	1	40-20B	FP131	
61#	HCC4020BK		CMS	2	24M†	11*	4.0Δ	2	18e	0.0	5.0	130nΔ	20n#		500m	5	C	1	40-20B	FP131	
62#	HCC4024BD		CMS	2	24M†	11*	4.0Δ	2	18e	0.0	15	130nΔ	20n#								

11. COUNTERS

IN ORDER OF (1) TECHNOLOGY (2) TYPE OF COUNTER
(3) OPERATING FREQ. (4) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE	MAX. OPER. FREQ. (Hz)	LOGIC LEVEL		FAN IN	FAN OUT MAX	POWER SUPPLY SPAN		PROPAGATION DELAY (S)	RISE TIME (S)	FALL TIME (S)	MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS		
						MIN. '1' (V)	MAX. '0' (V)			NEG (V)	POS (V)								LOGIC OR BLOCK	OUTLINE	
1	MC74HC4040N(A)		CMS	2	30M	3.2	1.1		10	0.5	7.0	36n	500n	500n	500m	1.1	4 8	1	E02-208	DL16Z	
2v	HEF4526BTD		CMS	2	32M	11.0*	4.0Δ		9	50e	0.0	140nΔ			200m	6.7 †	4 8	1	E01-128	FP148	
3v	HEF4516BTD		CMS	2	34M	11.0*	4.0Δ		9	50e	0.0	160nΔ			200m	6.7 †	4 8	1	E01-126a	FP148	
4v	HEF4020BTD		CMS	2	35M	11.0*	4.0Δ		2	50e	0.0	140n			200m	6.7 †	4 8	1	E02-153	FP148	
5v	HEF4024BTD		CMS	2	35M	11.0*	4.0Δ		2	50e	0.0	60nΔ			200m	6.7 †	4 8	1	40-24	FP147	
6v	HEF4040BTD		CMS	2	35M	11.0*	4.0Δ		2	50e	0.0	70nΔ			200m	6.7 †	4 8	1	E02-155	FP148	
7v	HEF40161BTD		CMS	2	35M	11.0*	4.0Δ		9	50e	0.0	85nΔ			200m	6.7 †	4 8	1	74-161	FP148	
8v	HEF40163BTD		CMS	2	35M	11.0*	4.0Δ		9	50e	0.0	15	80nΔ		200m	6.7 †	4 8	1	74-163	FP148	
9#	M752D1		CMS	2A1	4.2m†	12*	.01ΔC			0.0	16				200m		4 8	1	E02-195	DL16dg	
10#	M731B1		CMS	2A1	4.2m†	12*	.01ΔC			0.0	16				200m		4 8	1	E02-192	DL14w	
11#	M731D1		CMS	2A1	4.2m†	12*	.01ΔC			0.0	16				200m		4 8	1	E02-192	DL14bd	
12#	M752B1		CMS	2A1	4.2m†	12*	.01ΔC			0.0	16				200m		4 8	1	E02-194	DL16dg	
13#	M706B1		CMS	2A1	10M\$	9.99*	.01ΔC			0.0	15				200m		4 8	1	E02-190	DL8ad	
14#	M714B1		CMS	2A2	10M\$	9.99*	.01ΔC			0.0	15	20n	20n†		200m	4.5 †	4 8	1	E02-191	DL14w	
15#	M730B1		CMS	2A2	4.2m†	12*	.01ΔC			0.0	16				200m		4 8	1	E02-192	DL14Z	
16#	M730D1		CMS	2A2	4.2m†	12*	.01ΔC			0.0	16				200m		4 8	1	E02-192	DL14bd	
17#	M750B1		CMS	2A2	4.2m†	12*	.01ΔC			0.0	16				200m		4 8	1	E02-194	*	
18#	M750D1		CMS	2A2	4.2m†	12*	.01ΔC			0.0	16				200m		4 8	1	E02-194	DL16dg	
19#	M754B1		CMS	2A2	4.2m†	12*	.01ΔC			0.0	16				200m		4 8	1	E02-196	*	
20#	M754D1		CMS	2A2	4.2m†	12*	.01ΔC			0.0	16				200m		4 8	1	E02-196	DL16dg	
21#	M714D1		CMS	2A2	10M\$	9.99*	.01ΔC			0.0	15		20n†	20n†	200m	4.5 †	4 8	1	E02-191	DL14bd	
22#	HCC4045BD		CMS	2A2	24M	11*	4.0Δ			0.0	18	1.0u	20n†	20n†	200m	2.5 *	5 C	1	40-45	DL16dh	
23#	HCC4045BF		CMS	2A2	24M	11*	4.0Δ			0.0	18	1.0u	20n†	20n†	200m	2.5 *	5 C	1	40-45	*	
24#	HCC4045BK		CMS	2A2	24M	11*	4.0Δ			0.0	18	1.0u	20n†	20n†	200m	2.5 *	5 C	1	40-45	FP131	
25#	HCF4045BE		CMS	2A2	24M	11*	4.0Δ			0.0	18	1.0u	20n†	20n†	200m	2.5 *	4 8	1	40-45	DL16dg	
26#	HCF4045BF		CMS	2A2	24M	11*	4.0Δ			0.0	18	1.0u	20n†	20n†	200m	2.5 *	4 8	1	40-45	*	
27#	MSM4024RS		CMS	2.0	4.0M†	3.6*	1.0Δ		40	0.3	16	800n	200n	200n	200m	0.6	4 8	1	E02-135	DL14Z	
28	MC54HC161J#mil		CMS	2.0	40M†\$	3.85	1.1	.0	5	0.5	7.0	32n			500m	10	5 C	1.0	E02 201	DL16Z	
29	MC54HC163J#mil		CMS	2.0	40M†\$	3.85	1.1	.0	5	0.5	7.0	32n			500m	10	5 C	1.0	E02 201	DL16Z	
30	MC74HC161J#ai		CMS	2.0	40M†\$	3.85	1.1	.0	5	0.5	7.0	32n			500m	10	4 8	1.0	E02 201	DL16Z	
31	MC74HC161N#ai		CMS	2.0	40M†\$	3.85	1.1	.0	5	0.5	7.0	32n			500m	10	4 8	1.0	E02 201	DL16Z	
32	MC74HC163J#ai		CMS	2.0	40M†\$	3.85	1.1	.0	5	0.5	7.0	32n			500m	10	4 8	1.0	E02 201	DL16Z	
33	MC74HC163N#ai		CMS	2.0	40M†\$	3.85	1.1	.0	5	0.5	7.0	32n			500m	10	4 8	1.0	E02 201	DL16Z	
34#	MSM4029RS		CMS	2.0	40M†\$	3.85	1.1	.0	5	0.3	7.0	32n			500m	10	4 8	1.0	E02 201	DL16Z	
35	893/4050B		CMS	2.3	1.5M†	3.6*	1.0Δ		40	0.3	16	800n	15u*	5.0u*	200m	0.6	4 8	1	E02-205	DL16Z	
36	SFF24029AEV		CMS	2.3	5.0M	9.99*	.01ΔC		9	0.0	10	460nΔ	200n	200n	200m	3.0 *	4 8	1	40-29B	DL16ch	
37	SFF24029AKM		CMS	2.3	5.0M	9.99*	.01ΔC		9	0.0	10	230nΔ	100n	100n	200m	3.0 *	5 C	1	40-29B	DL16ch	
38#	TC4516BP		CMS	2R	3.0M*	14.9**	.05ΔC		9	0.0	15	250nΔ	160n	80n	300m	4.0 *	4 8	1	45-16B	DL16cr	
39	MC14516BAL		CMS	2R	8.0M\$†	11*	4.0Δ		9	18e	0.0	15	300nΔ	130n	80n		2.5 *	5 C	1	45-16B	DL16am
40	MC14516BCL		CMS	2R	8.0M\$†	11*	4.0Δ		9	16e	0.0	15	300nΔ	130n	80n		2.5 *	4 8	1	45-16B	DL16am
41	MC14516BCP		CMS	2R	8.0M\$†	11*	4.0Δ		9	16e	0.0	15	300nΔ	130n	80n		2.5 *	4 8	1	45-16B	DL16bo
42	CD4516BD		CMS	2U	11M\$†	11*	4.0Δ		9	18e	0.0	15	250nΔ	5.0u†	5.0u†	500m	4.0 *	5 C	1	45-16B	MO001AE
43	CD4516BE		CMS	2U	11M\$†	11*	4.0Δ		9	18e	0.0	15	250nΔ	5.0u†	5.0u†	500m	4.0 *	4 8	1	45-16B	MO001AC
44	CD4516BF		CMS	2U	11M\$†	11*	4.0Δ		9	18e	0.0	15	250nΔ	5.0u†	5.0u†	500m	4.0 *	5 C	1	45-16B	MO001AC
45#	HEF4737		CMS	3		11*	4.0Δ		7	16e	0.0	15			400m	6.7 †	4 8	1	E03-59	DLZ	
46v	HEF4737BPN		CMS	3		11.0*	4.0Δ		7	16e	0.0	15			400m	6.7 †	4 8	1	E03-59	DL18d	
47v	HEF4737VFN		CMS	3			4.0Δ		7	16e	0.0	10			400m	4.5 †	4 8	1	E03-59	DL18d	
48	JANM38510/05601AEA		CMS	3	350k\$	3.95*	.85Δ	3	7	0.0	5.0	2.3uΔ			200m		5 C	1	E02-59	DL16bs	
49	JANM38510/05601AFA		CMS	3	350k\$	3.95*	.85Δ	3	7	0.0	5.0	2.3uΔ			200m		5 C	1	40-17B	FP117	
50	JANM38510/05601BEA		CMS	3	350k\$	3.95*	.85Δ	3	7	0.0	5.0	2.7uΔ			200m		5 C	1	40-17B	DL16br	
51	JANM38510/05601BEB		CMS	3	350k\$	3.95*	.85Δ	3	7	0.0	5.0	2.7uΔ			200m		5 C	1	40-17B	DL16br	
52	JANM38510/05601BEC		CMS	3	350k\$	3.95*	.85Δ	3	7	0.0	5.0	2.7uΔ			200m		5 C	1	40-17B	DL16br	
53	JANM38510/05601BFA		CMS	3	350k\$	3.95*	.85Δ	3	7	0.0	5.0	2.7uΔ			200m		5 C	1	40-17B	DL16br	
54	JANM38510/05601CEA		CMS	3	350k\$	3.95*	.85Δ	3	7	0.0	5.0	2.7uΔ			200m		5 C	1	40-17B	FP117	
55	JANM38510/05601CEB		CMS	3	350k\$	3.95*	.85Δ	3	7	0.0	5.0	2.7uΔ			200m		5 C	1	40-17B	DL16br	
56	JANM38510/05601CEC		CMS	3	350k\$	3.95*	.85Δ	3	7	0.0	5.0	2.7uΔ			200m		5 C	1	40-17B	DL16br	
57	JANM38510/05601CFA		CMS	3	350k\$	3.95*	.85Δ	3	7	0.0	5.0	2.7uΔ			200m		5 C	1	40-17B	DL16br	
58#	MSM5500RS		CMS	3	2.0M\$	4.0	3.7	4	40e	0.0	7.0	4.0uΔ	1.0u#		500m	0.6	3 8	1	E03-85	DL16cq	
59	CD7217AC		CMS	3	2.0M	1.3	.80		55e	5.0	5.0				1.0		2 7	1	E03-77a	DL28	
60	CD7217BC		CMS	3	2.0M	1.3	.80		55e	5.0	5.0				1.0		2 7	1	E03-77	DL28Z	
61	CD7217C		CMS	3	2.0M	1.3	.80		55e	5.0	5.0				1.0		2 7	1	E03-77	DL28Z	
62	CD7217CC		CMS	3	2.0M	4.1	3.7		55e	5.0	5.0				500m		2 7	1	E03-77a	DL28	
63	CD7227AC		CMS	3	2.0M	3.0	1.5		55e	5.0	5.0				500m		2 7	1	E03-77c	DL28	
64	ICM7217C		CMS	3	2.0M	4.1	3.7		55e	5.0	5.0				500m		2 7	1	E03-77	DL28c	
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11. COUNTERS

IN ORDER OF: (1) TECHNOLOGY (2) TYPE OF COUNTER
(3) OPERATING FREQ. (4) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE	MAX. OPER. FREQ. (Hz)	LOGIC LEVEL		IN	OUT MAX	POWER SUPPLY		PROPAGATION DELAY (S)	RISE TIME (S)	FALL TIME (S)	MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS	
						MIN. '1' (V)	MAX. '0' (V)			NEG (V)	POS (V)								LOGIC OR BLOCK	OUTLINE
1	CD40160BMJ		CMS	3	7.0MS*	11*	4.0Δ	9	19e 0.0	15	160nΔ	5.0u	5.0u	300u%	6.7 ↑	5 C	1	74-160N	DL16au	
2	CD40160BMW		CMS	3	7.0MS*	11*	4.0Δ	9	19e 0.0	15	160nΔ	5.0u	5.0u	300u%	6.7 ↑	5 C	1	74-160N	FP88c	
3	CD40162BCJ		CMS	3	7.0MS*	11*	4.0Δ	9	16e 0.0	15	160nΔ	5.0u	5.0u	1.2m%	6.7 ↑	4 C	1	74-162N	DL16au	
4	CD40162BCN		CMS	3	7.0MS*	11*	4.0Δ	9	16e 0.0	15	160nΔ	5.0u	5.0u	1.2m%	6.7 ↑	4 C	1	74-162N	DL16bu	
5	CD40162BMJ		CMS	3	7.0MS*	11*	4.0Δ	9	19e 0.0	15	160nΔ	5.0u	5.0u	300u%	6.7 ↑	5 C	1	74-162N	DL16au	
6	CD40162BMW		CMS	3	7.0MS*	11*	4.0Δ	9	19e 0.0	15	160nΔ	5.0u	5.0u	300u%	6.7 ↑	5 C	1	54-162W	FP88c	
7	CD40192BCJ		CMS	3	7.5M*	11*	4.0Δ	8	16e 0.0	15	150nΔ	2.0u*	2.0u*	1.2m%	6.7 ↑	4 C	1	74-192N	DL16au	
8	CD40192BCN		CMS	3	7.5M*	11*	4.0Δ	8	16e 0.0	15	150nΔ	2.0u*	2.0u*	1.2m%	6.7 ↑	4 C	1	74-192N	DL16bu	
9	CD40192BMJ		CMS	3	7.5M*	11*	4.0Δ	8	19e 0.0	15	150nΔ	2.0u*	2.0u*	300u%	6.7 ↑	5 C	1	74-192N	DL16au	
10	CD40192BMW		CMS	3	7.5M*	11*	4.0Δ	8	19e 0.0	15	150nΔ	2.0u*	2.0u*	300u%	6.7 ↑	5 C	1	54-192W	FP88c	
11	40160BDC		CMS	3	8.0M*	11*	4.0Δ	9	25e 0.0	15	104nΔ			9.0m%	6.7 ↑	4 C	1	74-160N	DL16cj	
12	40160BDM		CMS	3	8.0M*	11*	4.0Δ	9	25e 0.0	15	104nΔ			9.0m%	6.7 ↑	5 C	1	74-160N	DL16cj	
13	40160BFC		CMS	3	8.0M*	11*	4.0Δ	9	25e 0.0	15	104nΔ			9.0m%	6.7 ↑	4 C	1	54-160W	FP103	
14	40160BFM		CMS	3	8.0M*	11*	4.0Δ	9	25e 0.0	15	104nΔ			9.0m%	6.7 ↑	5 C	1	54-160W	FP103	
15	40160BPC		CMS	3	8.0M*	11*	4.0Δ	9	25e 0.0	15	104nΔ			9.0m%	6.7 ↑	4 C	1	74-160N	DL16au	
16	40162BDC		CMS	3	8.0M*	11*	4.0Δ	9	25e 0.0	15	104nΔ			9.0m%	6.7 ↑	4 C	1	74-162N	DL16cj	
17	40162BDM		CMS	3	8.0M*	11*	4.0Δ	9	25e 0.0	15	104nΔ			9.0m%	6.7 ↑	5 C	1	74-162N	DL16cj	
18	40162BFC		CMS	3	8.0M*	11*	4.0Δ	9	25e 0.0	15	104nΔ			9.0m%	6.7 ↑	4 C	1	54-162W	FP103	
19	40162BFM		CMS	3	8.0M*	11*	4.0Δ	9	25e 0.0	15	104nΔ			9.0m%	6.7 ↑	5 C	1	54-162W	FP103	
20	40162BPC		CMS	3	8.0M*	11*	4.0Δ	9	25e 0.0	15	104nΔ			9.0m%	6.7 ↑	4 C	1	74-162N	DL16au	
21	MC14160BAL		CMS	3	8.0MS†	11*	4.0Δ	10	18e 0.0	15	250nΔ	80n	80n		2.5 *	5 C	1	74-160N	DL16am	
22	MC14160BCL		CMS	3	8.0MS†	11*	4.0Δ	10	16e 0.0	15	250nΔ	80n	80n		2.5 *	4 C	1	74-160N	DL16am	
23	MC14160BCP		CMS	3	8.0MS†	11*	4.0Δ	10	16e 0.0	15	250nΔ	80n	80n		2.5 *	4 C	1	74-160N	DL16bo	
24	MC14162BAL		CMS	3	8.0MS†	11*	4.0Δ	10	18e 0.0	15	250nΔ	80n	80n		2.5 *	5 C	1	74-162N	DL16am	
25	MC14162BCL		CMS	3	8.0MS†	11*	4.0Δ	10	16e 0.0	15	250nΔ	80n	80n		2.5 *	4 C	1	74-162N	DL16am	
26	MC14162BCP		CMS	3	8.0MS†	11*	4.0Δ	10	16e 0.0	15	250nΔ	80n	80n		2.5 *	4 C	1	74-162N	DL16bo	
27	SCL4160B		CMS	3	8.5M†	9.95*	.05ΔC	10	50 0.0	10	190nΔ			100u%	3.0	5 C	1	74-160N	DL16ar	
28	SCL4162B		CMS	3	8.5M†	9.95*	.05ΔC	10	50 0.0	10	190nΔ			100u%	3.0	5 C	1	74-162	DL16ar	
29 #	HEF4534		CMS	3	10M	11*	4.0Δ	8	16e 0.0	15	600nΔ			400m	6.7 ↑	4 C	1	45-34B	DLZ	
30 #	HEF4534BDF		CMS	3	10M	11.0*	4.0Δ	8	16e 0.0	15	600nΔ			400m	6.7 ↑	4 C	1	E03-58	DL24d	
31 #	HEF4534BPN		CMS	3	10M	11.0*	4.0Δ	8	16e 0.0	15	600nΔ			400m	6.7 ↑	4 C	1	E03-58	DL24s	
32	ICM7208PI		CMS	3	10M					5.0				35m		2	7	E03-72	DL28d	
33 #	HEF4017P		CMS	3	13M	7.0*	3.0Δ	3		10	31n			14m%		4	8	40-17B	DL16bw	
34 #	HEF40192		CMS	3	13M*	11*	4.0Δ	8	16e 0.0	15	205nΔ			400m	6.7 ↑	4 C	1	74-192N	DLZ	
35 #	HEF40192BDF		CMS	3	13M*	11.0*	4.0Δ	8	16e 0.0	15	205nΔ			400m	6.7 ↑	4 C	1	74-192N	DL16at	
36 #	HEF40192BPN		CMS	3	13M*	11.0*	4.0Δ	8	16e 0.0	15	205nΔ			400m	6.7 ↑	4 C	1	74-192N	DL16cc	
37	CD7224AC		CMS	3	15M	3.0	2.0		.9e 5.0	5.0				500m		2	7	E03-73	DL40g	
38	CD7224C		CMS	3	15M	3.0	2.0		.9e 5.0	5.0				500m		2	7	E03-73	DL40g	
39	CD7225AC		CMS	3	15M	3.0	2.0		.9e 5.0	5.0				500m		2	7	E03-74	DL40g	
40	CD7225C		CMS	3	15M	3.0	2.0		.9e 5.0	5.0				500m		2	7	E03-74	DL40g	
41	ICM7224AIPL		CMS	3	15M	3*	2Δ			5.0				50u%		2	7	E03-73	DL40g	
42	ICM7224IPL		CMS	3	15M	3*	2Δ			5.0				50u%		2	7	E03-73	DL40g	
43	ICM7225AIPL		CMS	3	15M	3*	2Δ			5.0				50u%		2	7	E03-74	DL40g	
44	ICM7225IPL		CMS	3	15M	3*	2Δ			5.0				50u%		2	7	E03-74	DL40g	
45	ICM7236AIPL		CMS	3	15M	3*	2Δ			5.0				50u%		2	7	E03-75	DL40g	
46	ICM7236IPL		CMS	3	15M	3*	2Δ			5.0				50u%		2	7	E03-75	DL40g	
47 #	HCC4017BD		CMS	3	16MS†	11*	4.0Δ	3	18e 0.0	15	250nΔ	30n#	30n#	500m		5	C	1	40-17B	DL16cm
48 #	HCC4017BF		CMS	3	16MS†	11*	4.0Δ	3	18e 0.0	15	250nΔ	30n#	30n#	500m		5	C	1	40-17B	DL16aq
49 #	HCC4017BK		CMS	3	16MS†	11*	4.0Δ	3	18e 0.0	15	250nΔ	30n#	30n#	500m		5	C	1	40-17B	FP131
50 #	HCC4022BD		CMS	3	16MS†	11*	4.0Δ	3	18e 0.0	5.0	130nΔ	20n#	20n#	500m		5	C	1	40-22B	DL16cm
51 #	HCC4022BF		CMS	3	16MS†	11*	4.0Δ	3	18e 0.0	5.0	130nΔ	20n#	20n#	500m		5	C	1	40-22B	DL16aq
52 #	HCC4022BK		CMS	3	16MS†	11*	4.0Δ	3	18e 0.0	5.0	130nΔ	20n#	20n#	500m		5	C	1	40-22B	FP131
53 #	HCF4017BE		CMS	3	16MS†	11*	4.0Δ	3	18e 0.0	15	250nΔ	30n#	30n#	500m		4	8	1	40-17B	DL16bj
54 #	HCF4017BF		CMS	3	16MS†	11*	4.0Δ	3	18e 0.0	15	250nΔ	30n#	30n#	500m		4	8	1	40-102	DL16aq
55 #	HCF4022BE		CMS	3	16MS†	11*	4.0Δ	3	18e 0.0	5.0	130nΔ	20n#	20n#	500m		4	8	1	40-22B	DL16bj
56 #	HCF4022BF		CMS	3	16MS†	11*	4.0Δ	3	18e 0.0	5.0	130nΔ	20n#	20n#	500m		4	8	1	40-22B	DL16aq
57 #	HEF40160		CMS	3	17M*	11*	4.0Δ	8	16e 0.0	15	85nΔ			400m	6.7 ↑	4	8	1	74-160N	DLZ
58 #	HEF40160BDF		CMS	3	17M*	11.0*	4.0Δ	8	16e 0.0	15	85nΔ			400m	6.7 ↑	4	8	1	74-160N	DL16at
59 #	HEF40160BPN		CMS	3	17M*	11.0*	4.0Δ	8	16e 0.0	15	85nΔ			400m	6.7 ↑	4	8	1	74-160N	DL16cc
60 #	HEF40162		CMS	3	17M*	11*	4.0Δ	8	16e 0.0	15	80nΔ			400m	6.7 ↑	4	8	1	74-162N	DLZ
61 #	HEF40162BDF		CMS	3	17M*	11.0*	4.0Δ	8	16e 0.0	15	80nΔ			400m	6.7 ↑	4	8	1	74-162N	DL16at
62 #	HEF40162BPN		CMS	3	17M*	11.0*	4.0Δ	8	16e 0.0	15	80nΔ			400m	6.7 ↑	4	8	1	74-162N	DL16cc
63 #	HEF4737BDF		CMS	3	20M	11.0*	4.0Δ	8	50e 0.0	15	500nΔ			400m	6.7 ↑	4	8	1	E03-59	DL18t
64 #	HEF4737VDF		CMS	3	20M	11.0*	4.0Δ	8	50e 0.0	15	500nΔ			400m	6.7 ↑	4	8	1	E03-59	DL18t
65 #	HEF40192BTD		CMS	3	26M	11.0*	4.0Δ	8	50e 0.0	15	205nΔ			200m	6.7 ↑	4	8	1	74-192	FP148
66 #	HEF40160BTD		CMS	3	35M	11.0*	4.0Δ	9	50e 0.0	15	85nΔ			200m	6.7 ↑	4	8	1	74-160	FP148
67 #	HEF40162BTD		CMS	3	35M	11.0*	4.0Δ	9	50e 0.0	15	80nΔ			200m	6.7 ↑	4	8	1	74-162	FP148
68 #	MSM4017RS		CMS	3.0	2.0M†	3.6*	1.0Δ	4	0.3	16	1.0u	200n	200n	200m	0.6	4	8	1	E03-96	DL16Z
69	MC54HC160J#mil		CMS	3.0	40M†	3.85	1.1	.0	5 0.5	7.0	32n			500m	10	5	C	1.0	E03 93	DL16Z
70	MC54HC162J#mil		CMS	3.0	40M†	3.85	1.1	.0	5 0.5	7.0	32n			500m	10	5	C	1.0	E03 93	DL16Z
71	MC74HC160J#ai		CMS	3.0	40M†	3.85	1.1	.0	5 0.5	7.0	32n			500m	10	4	8	1.0	E03 93	DL16Z
72	MC74HC160N#ai		CMS	3.0	40M†	3.85	1.1	.0	5 0.5	7.0	32n			500m	10	4	8	1.0	E03 93	DL16Z
73	MC74HC162J#ai		CMS	3.0	40M†	3.85	1.1	.0	5 0.5	7.0	32n			500m	10	4	8	1.0	E03 93	DL16Z
74	MC74HC162N#ai		CMS	3.0	40M†	3.85	1.1	.0	5 0.5	7.0	32n			500m	10	4	8	1.0	E03 93	DL16Z
75</																				

11. COUNTERS

IN ORDER OF: (1) TECHNOLOGY (2) TYPE OF COUNTER
(3) OPERATING FREQ. (4) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	T Y P E	MAX. OPER. FREQ. (Hz)	LOGIC LEVEL		FAN		POWER SUPPLY SPAN		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE		PKTS PER MOD	DRAWINGS	
						MIN. '1' (V)	MAX. '0' (V)	IN	OUT MAX	NEG (V)	POS (V)		RISE TIME (S)	FALL TIME (S)			-	+		LOGIC OR BLOCK	OUTLINE
1	CD4018AF		CMS	5	5.0MS†	9.99*	.01ΔC	9	9	0.0	10	400nΔ	15u	15u	100%	4.5 †	5	C	1	40-18B	MO001AC
2	CD4018BCJ		CMS	5	5.0MS*†	11*	4.0Δ	9	16e	0.0	15	200nΔ	15u	15u	1.2m%	6.7 †	4	8	1	40-18B	DL16au
3	CD4018BCN		CMS	5	5.0MS*†	11*	4.0Δ	9	16e	0.0	15	200nΔ	15u	15u	1.2m%	6.7 †	4	8	1	40-18B	DL16bu
4	CD4018BMJ		CMS	5	5.0MS*†	11*	4.0Δ	9	19e	0.0	15	200nΔ	15u	15u	300u%	6.7 †	5	C	1	40-18B	DL16au
5	CD4018BMW		CMS	5	5.0MS*†	11*	4.0Δ	9	19e	0.0	15	200nΔ	15u	15u	300u%	6.7 †	5	C	1	40-18B	FP88c
6	CD4022AD		CMS	5	5.0MS†	10	0.0C	3	9	0.0	10	400nΔ	15u*	15u*	100u%	4.5 †	5	C	1	40-22B	MO001AE
7	CD4022AE		CMS	5	5.0MS†	10	0.0C	3	9	0.0	10	800nΔ	15u*	15u*	1.0m%	4.5 †	4	8	1	40-22B	MO001AC
8	CD4022AF		CMS	5	5.0MS†	9.99*	.01ΔC	3	3	0.0	10	400nΔ	15u	15u	100u%	4.5 †	5	C	1	40-22B	MO001AC
9	CD4026AD		CMS	5	5.0MS†	10	0.0C	4	50	0.0	10	500nΔ	15u*	15u*	100u%	4.5 †	5	C	1	40-26B	MO001AE
10	CD4026AE		CMS	5	5.0MS†	10	0.0C	4	50	0.0	10	700nΔ	15u*	15u*	1.0m%	4.5 †	4	8	1	40-26B	MO001AC
11	CD4026AF		CMS	5	5.0MS†	9.99*	.01ΔC	4	4	0.0	10	500nΔ	15u	15u	100u%	4.5 †	5	C	1	40-26B	MO001AC
12#	HBC4017AD		CMS	5	5.0MS†	10	0.0C	3	3	0.0	10	400nΔ	15u*	15u*	100u%	4.5 †	5	C	1	40-17B	MO001AE
13#	HBC4017AF		CMS	5	5.0MS†	10	0.0C	3	3	0.0	10	400nΔ	15u*	15u*	100u%	4.5 †	5	C	1	40-17B	MO001AE
14#	HBC4017AK		CMS	5	5.0MS†	10	0.0C	3	3	0.0	10	400nΔ	15u*	15u*	100u%	4.5 †	5	C	1	40-17B	MO004AG
15#	HBC4018AD		CMS	5	5.0MS†	10	0.0C	9	9	0.0	10	400nΔ	15u*	15u*	100u%	4.5 †	5	C	1	40-18B	MO001AE
16#	HBC4018AF		CMS	5	5.0MS†	10	0.0C	9	9	0.0	10	400nΔ	15u*	15u*	100u%	4.5 †	5	C	1	40-18B	MO001AE
17#	HBC4018AK		CMS	5	5.0MS†	10	0.0C	9	9	0.0	10	400nΔ	15u*	15u*	100u%	4.5 †	5	C	1	40-18B	MO004AG
18#	HBC4022AD		CMS	5	5.0MS†	10	0.0C	3	3	0.0	10	400nΔ	15u*	15u*	100u%	4.5 †	5	C	1	40-22B	MO001AE
19#	HBC4022AF		CMS	5	5.0MS†	10	0.0C	3	3	0.0	10	400nΔ	15u*	15u*	100u%	4.5 †	5	C	1	40-22B	MO001AE
20#	HBC4022AK		CMS	5	5.0MS†	10	0.0C	3	3	0.0	10	400nΔ	15u*	15u*	100u%	4.5 †	5	C	1	40-22B	MO004AG
21#	HBC4026AD		CMS	5	5.0MS†	10	0.0C	4	50	0.0	10	500nΔ	15u*	15u*	100u%	4.5 †	5	C	1	40-26B	MO001AE
22#	HBC4026AF		CMS	5	5.0MS†	10	0.0C	4	50	0.0	10	500nΔ	15u*	15u*	100u%	4.5 †	5	C	1	40-26B	MO001AE
23#	HBC4026AK		CMS	5	5.0MS†	10	0.0C	4	50	0.0	10	500nΔ	15u*	15u*	100u%	4.5 †	5	C	1	40-26B	MO004AG
24#	HF4017AE		CMS	5	5.0MS†	10	0.0C	3	3	0.0	10	500nΔ	15u*	15u*	1.0m%	4.5 †	4	8	1	40-17B	MO001AC
25#	HF4017AF		CMS	5	5.0MS†	10	0.0C	3	3	0.0	10	500nΔ	15u*	15u*	1.0m%	4.5 †	4	8	1	40-17B	MO001AE
26#	HF4018AE		CMS	5	5.0MS†	10	0.0C	9	9	0.0	10	500nΔ	15u*	15u*	1.0m%	4.5 †	4	8	1	40-18B	MO001AC
27#	HF4018AF		CMS	5	5.0MS†	10	0.0C	9	9	0.0	10	500nΔ	15u*	15u*	1.0m%	4.5 †	4	8	1	40-18B	MO001AE
28#	HF4022AE		CMS	5	5.0MS†	10	0.0C	3	3	0.0	10	800nΔ	15u*	15u*	1.0m%	4.5 †	4	8	1	40-22B	MO001AC
29#	HF4022AF		CMS	5	5.0MS†	10	0.0C	3	3	0.0	10	800nΔ	15u*	15u*	1.0m%	4.5 †	4	8	1	40-22B	MO001AE
30#	HF4026AE		CMS	5	5.0MS†	10	0.0C	4	50	0.0	10	700nΔ	15u*	15u*	1.0m%	4.5 †	4	8	1	40-26B	MO001AC
31#	HF4026AF		CMS	5	5.0MS†	10	0.0C	4	50	0.0	10	700nΔ	15u*	15u*	1.0m%	4.5 †	4	8	1	40-26B	MO001AE
32#	MSM4017		CMS	5	5.0MS†	7.2*	2.0Δ	3	16e	0.0	10	500nΔ	15u*	15u*	1.4m%	2.0 *	2	7	1	40-17B	DL16cq
33	883/4018B		CMS	5	6.0MS†	8.2	6.7	5	5	0.0	15	240n	120n	120n	300m		5	C	4	40-18	MO001AG
34	883/4022B		CMS	5	6.0MS†	8.2	6.7	3	3	0.0	15	360n			300m		5	C	4	40-22	MO001AG
35	CD4017BCJ		CMS	5	6.0MS†	11*	4.0Δ	3	16e	0.0	15	320nΔ	5.0u	5.0u	1.2m%	6.7 †	4	8	1	40-17B	DL16au
36	CD4017BCN		CMS	5	6.0MS†	11*	4.0Δ	3	16e	0.0	15	320nΔ	5.0u	5.0u	1.2m%	6.7 †	4	8	1	40-17B	DL16bu
37	CD4017BMJ		CMS	5	6.0MS†	11*	4.0Δ	3	19e	0.0	15	320nΔ	5.0u	5.0u	300u%	6.7 †	5	C	1	40-17B	DL16au
38	CD4017BMW		CMS	5	6.0MS†	11*	4.0Δ	3	19e	0.0	15	320nΔ	5.0u	5.0u	300u%	6.7 †	5	C	1	40-17B	FP88c
39	SCL4022B		CMS	5	6.0MS†	13.5*	.45Δ	0	0	0.0	12	1.2uΔ	20n	20n	300u%		5	C	1	40-22B	DLZ
40	CD4026BD		CMS	5	7.5MS†	11*	4.0Δ	4	18e	0.0	15	90n	50n#		500m	4.0 *	5	C	1	40-26B	MO001AE
41	CD4026BE		CMS	5	7.5MS†	11*	4.0Δ	4	18e	0.0	15	90n	50n#		500m	4.0 *	4	8	1	40-26B	MO001AC
42	CD4026BF		CMS	5	7.5MS†	11*	4.0Δ	4	18e	0.0	15	90n	50n#		500m	4.0 *	5	C	1	40-26B	MO001AC
43	CD4026BH		CMS	5	7.5MS†	11*	4.0Δ	4	18e	0.0	15	90n	50n#		500m	4.0 *	5	C	1	40-26	CH129
44	CD4033BD		CMS	5	7.5MS†	11*	4.0Δ	4	18e	0.0	15	90n	50n#		500m	4.0 *	5	C	1	40-33B	MO001AE
45	CD4033BE		CMS	5	7.5MS†	11*	4.0Δ	4	18e	0.0	15	90n	50n#		500m	4.0 *	4	8	1	40-33B	MO001AC
46	CD4033BF		CMS	5	7.5MS†	11*	4.0Δ	4	18e	0.0	15	90n	50n#		500m	4.0 *	5	C	1	40-33B	MO001AC
47	CD4033BH		CMS	5	7.5MS†	11*	4.0Δ	4	18e	0.0	15	90n	50n#		500m	4.0 *	5	C	1	40-33	CH129
48#	HCC4026BD		CMS	5	7.5MS†	11*	4.0Δ	4	18e	0.0	15	90m	50n#		500m	4.0 *	5	C	1	40-26B	DL16cm
49#	HCC4026BF		CMS	5	7.5MS†	11*	4.0Δ	4	18e	0.0	15	90m	50n#		500m	4.0 *	5	C	1	40-26B	DL16aq
50#	HCC4026BK		CMS	5	7.5MS†	11*	4.0Δ	4	18e	0.0	15	90m	50n#		500m	4.0 *	5	C	1	40-26B	FP131
51#	HCC4033BD		CMS	5	7.5MS†	11*	4.0Δ	4	18e	0.0	15	90n	50n#		500m	4.0 *	5	C	1	40-33B	DL16cm
52#	HCC4033BF		CMS	5	7.5MS†	11*	4.0Δ	4	18e	0.0	15	90n	50n#		500m	4.0 *	5	C	1	40-33B	DL16aq
53#	HCC4033BK		CMS	5	7.5MS†	11*	4.0Δ	4	18e	0.0	15	90n	50n#		500m	4.0 *	5	C	1	40-33B	FP131
54#	HCF4026BE		CMS	5	7.5MS†	11*	4.0Δ	4	18e	0.0	15	90m	50n#		500m	4.0 *	4	8	1	40-26B	N
55#	HCF4026BF		CMS	5	7.5MS†	11*	4.0Δ	4	18e	0.0	15	90m	50n#		500m	4.0 *	4	8	1	40-26B	DL16aq
56#	HCF4033BE		CMS	5	7.5MS†	11*	4.0Δ	4	18e	0.0	15	90n	50n#		500m	4.0 *	4	8	1	40-33B	DL16bj
57#	HCF4033BF		CMS	5	7.5MS†	11*	4.0Δ	4	18e	0.0	15	90n	50n#		500m	4.0 *	4	8	1	40-33B	DL16aq
58	4017BDC		CMS	5	8.0M*†	11*	4.0Δ	3	25e	0.0	15	228nΔ			9.0m%	6.7 †	4	8	1	40-17B	DL16cj
59	4017BDM		CMS	5	8.0M*†	11*	4.0Δ	3	25e	0.0	15	228nΔ			9.0m%	6.7 †	5	C	1	40-17B	DL16cj
60	4017BFC		CMS	5	8.0M*†	11*	4.0Δ	3	25e	0.0	15	228nΔ			9.0m%	6.7 †	4	8	1	40-17B	FP103
61	4017BFM		CMS	5	8.0M*†	11*	4.0Δ	3	25e	0.0	15	228nΔ			9.0m%	6.7 †	5	C	1	40-17B	FP103
62	4017BPC		CMS	5	8.0M*†	11*	4.0Δ	3	25e	0.0	15	228nΔ			9.0m%	6.7 †	4	8	1	40-17B	*
63#	HD14024B		CMS	5	8.0M	3.5	1.5	.4e	0.0	15	380n	400n	250n	300m			4	8	4	E05-29	DL14cz
64#	HEF4018		CMS	5	8.0M*†	11*	4.0Δ	9	16e	0.0	15	105nΔ			400m	6.7 †	4	8	1	40-18B	DLZ
65#	HEF4018BDF		CMS	5	8.0M	11.0*	4.0Δ	9	16e	0.0	15	105nΔ			400m	6.7 †	4	8	1	E05-17	DL16at
66#	HEF4018BPN		CMS	5	8.0M	11.0*	4.0Δ	9	16e	0.0	15	105nΔ			400m	6.7 †	4	8	1	E05-17	DL16cc
67#	HEF4018P		CMS	5	10M\$†	7.0*	3.0Δ	9	9	0.0	10	115n	5.0n*	5.0n*	100u%	4.5 †	4	8	1	40-18B	DL16bw
68#	HEF4022P		CMS	5	10M\$†	7.0*	3.0Δ	3	3	0.0	10	110n	5.0n*	5.0n*	1.0m%		4	8	1	40-22B	DL16bw
69#	HEF4017	</																			

11. COUNTERS

IN ORDER OF:(1)TECHNOLOGY(2)TYPE OF COUNTER
(3)OPERATING FREQ.(4)TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE	MAX. OPER. FREQ. (Hz)	LOGIC LEVEL		FAN IN	FAN OUT	POWER SUPPLY SPAN	PROPAGATION DELAY (S)	RISE TIME (S)	FALL TIME (S)	MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS						
						MIN. '1' (V)	MAX. '0' (V)											LOGIC OR BLOCK	OUTLINE					
1	ICM7217JI%		CMS	6	200k	1.3	.80			0.0	5.0			1.0	2.0	2	7	1	E06-27	DL28d				
2	ICM7227AIPI%		CMS	6	200k	2.4	2.2			0.0	5.0			.50	2.0	2	7	1	E06-25	DL28d				
3	ICM7227BJI%		CMS	6	200k	2.4	2.2			0.0	5.0			1.0	2.0	2	7	1	E02-48a	DL28d				
4	ICM7227CPI%		CMS	6	200k	2.4	2.2			0.0	5.0			.50	2.0	2	7	1	E06-25	DL28d				
5	ICM7227JI%		CMS	6	200k	2.4	2.2			0.0	5.0			1.0	2.0	2	7	1	E02-48a	DL28d				
6	MC14018BAL		CMS	6	4.0M*	11*	4.0Δ			0.0	15			300u%	2.5 *	5	5	1	40-18B	DL16am				
7	MC14018BCL		CMS	6	4.0M*	11*	4.0Δ		9	50	0.0	15	100n	80n	80n	2.5 *	4	8	1	40-18B	DL16am			
8	MC14018BCP		CMS	6	4.0M*	11*	4.0Δ		9	50	0.0	15	100n	80n	80n	1.2m%	2.5 *	4	8	1	40-18B	DL16j		
9	CD4029BCJ		CMS	6	4.5M*	11*	4.0Δ		9	15e	0.0	15	220nΔ	5.0u*	5.0u*	1.2m%	6.7 †	4	8	1	40-29B	DL16au		
10	CD4029BCN		CMS	6	4.5M*	11*	4.0Δ		9	16e	0.0	15	220nΔ	5.0u*	5.0u*	1.2m%	6.7 †	4	8	1	40-29B	DL16bu		
11	CD4029BMJ		CMS	6	4.5M*	11*	4.0Δ		9	19e	0.0	15	220nΔ	5.0u*	5.0u*	300u%	6.7 †	5	5	1	40-29B	DL16au		
12	CD4029BMW		CMS	6	4.5M*	11*	4.0Δ		9	19e	0.0	15	220nΔ	5.0u*	5.0u*	300u%	6.7 †	5	5	1	40-29B	FP88c		
13	CD4029AD		CMS	6	5.0M*†	10	0.0C		9	50	0.0	10	300nΔ	15u*	15u*	100u%	4.5 †	5	5	1	40-29B	MO001AE		
14	CD4029AE		CMS	6	5.0M*†	10	0.0C		9	50	0.0	10	600nΔ	15u*	15u*	1.0m%	4.5 †	4	8	1	40-29B	MO001AC		
15	CD4029AF		CMS	6	5.0M*†	10	0.0C		9	50	0.0	10	300nΔ	15u*	15u*	100u%	4.5 †	5	5	1	40-29B	MO001AC		
16#	HBC4029AD		CMS	6	5.0M*†	10	0.0C		9	50	0.0	10	300nΔ	15u*	15u*	100u%	4.5 †	5	5	1	40-29B	MO001AE		
17#	HBC4029AF		CMS	6	5.0M*†	10	0.0C		9	50	0.0	10	300nΔ	15u*	15u*	100u%	4.5 †	5	5	1	40-29B	MO001AE		
18#	HBC4029AK		CMS	6	5.0M*†	10	0.0C		9	50	0.0	10	300nΔ	15u*	15u*	100u%	4.5 †	5	5	1	40-29B	MO004AG		
19#	HBF4029AE		CMS	6	5.0M*†	10	0.0C		9	50	0.0	10	600nΔ	15u*	15u*	1.0m%	4.5 †	4	8	1	40-29B	MO001AE		
20#	HBF4029AF		CMS	6	5.0M*†	10	0.0C		9	50	0.0	10	600nΔ	15u*	15u*	1.0m%	4.5 †	4	8	1	40-29B	MO001AE		
21#	4029BDC		CMS	6	6.0M*	11*	4.0Δ		9	25e	0.0	15	196nΔ			9.0m%	6.7 †	4	8	1	40-29B	DL16cj		
22	4029BDM		CMS	6	6.0M*	11*	4.0Δ		9	25e	0.0	15	196nΔ			9.0m%	6.7 †	5	5	1	40-29B	DL16cj		
23	4029BFC		CMS	6	6.0M*	11*	4.0Δ		9	25e	0.0	15	196nΔ			9.0m%	6.7 †	4	8	1	40-29B	FP103		
24	4029BFM		CMS	6	6.0M*	11*	4.0Δ		9	25e	0.0	15	196nΔ			9.0m%	6.7 †	5	5	1	40-29B	FP103		
25	4029BPC		CMS	6	6.0M*	11*	4.0Δ		9	25e	0.0	15	196nΔ			9.0m%	6.7 †	4	8	1	40-29B			
26	SCL4029B		CMS	6	6.0M*	9.95*	.05ΔC		9	50	0.0	10	300nΔ			100u%	3.0	5	5	1	40-29B	DL16ar		
27#	HEF4029B		CMS	6	12M*†	7.0*	.05ΔC		9	2e	0.0	10	90n			100u%		4	8	1	40-29B	DL16cb		
28#	HEF4029P		CMS	6	12M*†	7.0*	3.0Δ		9	9	0.0	10	100n			1.0m%		4	8	1	40-29B	DL16bw		
29#	HEF4029		CMS	6	18M*†	11*	4.0Δ		9	16e	0.0	15	140nΔ			400m	6.7 †	4	8	1	40-29B	DLZ		
30#	HEF4029BDF		CMS	6	18M*†	11.0*	4.0Δ		9	16e	0.0	15	140nΔ			400m	6.7 †	4	8	1	E01-73a	DL16at		
31#	HEF4029BPN		CMS	6	18M*†	11.0*	4.0Δ		9	16e	0.0	15	140nΔ			400m	6.7 †	4	8	1	E01-73a	DL16cc		
32#	HEF4029BTD		CMS	6	35M	11.0*	4.0Δ		9	50e	0.0	15	140nΔ			200mZ	6.7 †	4	8	1	E01-73a	FP148		
33	JANM38510/05604AEA		ICMS	6Δ	350k\$	3.95*	-.85Δ		3	7	0.0	5.0	2.9uΔ			200m		5	5	1	40-22B	DL16bs		
34	JANM38510/05604AFA		ICMS	6Δ	350k\$	3.95*	-.85Δ		3	7	0.0	5.0	2.9uΔ			200m		5	5	1	40-22B	FP117		
35	JANM38510/05604BEA		ICMS	6Δ	350k\$	3.95*	.85Δ		3	7	0.0	5.0	3.4uΔ			200m		5	5	1	40-22B	DL16br		
36	JANM38510/05604BEB		ICMS	6Δ	350k\$	3.95*	.85Δ		3	7	0.0	5.0	3.4uΔ			200m		5	5	1	40-22B	DL16br		
37	JANM38510/05604BEC		ICMS	6Δ	350k\$	3.95*	.85Δ		3	7	0.0	5.0	3.4uΔ			200m		5	5	1	40-22B	DL16br		
38	JANM38510/05604BFA		ICMS	6Δ	350k\$	3.95*	.85Δ		3	7	0.0	5.0	3.4uΔ			200m		5	5	1	40-22B	DL16br		
39	JANM38510/05604CEA		ICMS	6Δ	350k\$	3.95*	.85Δ		3	7	0.0	5.0	3.4uΔ			200m		5	5	1	40-22B	FP117		
40	JANM38510/05604CEB		ICMS	6Δ	350k\$	3.95*	.85Δ		3	7	0.0	5.0	3.4uΔ			200m		5	5	1	40-22B	DL16br		
41	JANM38510/05604CEC		ICMS	6Δ	350k\$	3.95*	.85Δ		3	7	0.0	5.0	3.4uΔ			200m		5	5	1	40-22B	DL16br		
42	JANM38510/05604CFA		ICMS	6Δ	350k\$	3.95*	.85Δ		3	7	0.0	5.0	3.4uΔ			200m		5	5	1	40-22B	DL16br		
43	JANM38510/05602AEA		ICMS	6Δ	350k\$	3.95*	.85Δ		3	7	0.0	5.0	3.4uΔ			200m		5	5	1	40-22B	FP117		
44	JANM38510/05602AFA		ICMS	6u	350k\$	3.95*	-.85Δ		9	7	0.0	5.0	2.3uΔ			200m		5	5	1	40-18B	DL16bs		
45	JANM38510/05602BEA		ICMS	6u	350k\$	3.95*	-.85Δ		9	7	0.0	5.0	2.3uΔ			200m		5	5	1	40-18B	FP117		
46	JANM38510/05602CEA		ICMS	6u	350k\$	3.95*	-.85Δ		9	7	0.0	5.0	2.3uΔ			200m		5	5	1	40-18B	DL16bs		
47	JANM38510/05602BEB		ICMS	6u	350k\$	3.95*	-.85Δ		9	7	0.0	5.0	2.3uΔ			200m		5	5	1	40-18B	DL16bs		
48	JANM38510/05602BFA		ICMS	6U	350k\$	3.95*	.85Δ		9	7	0.0	5.0	2.7uΔ			200m		5	5	1	40-18B	DL16br		
49	JANM38510/05602CEB		ICMS	6U	350k\$	3.95*	.85Δ		9	7	0.0	5.0	2.7uΔ			200m		5	5	1	40-18B	FP117		
50	JANM38510/05602CFA		ICMS	6U	350k\$	3.95*	.85Δ		9	7	0.0	5.0	2.7uΔ			200m		5	5	1	40-18B	DL16br		
51#	SFF24018AEV		CMS	6U	350k\$	3.95*	.85Δ		9	7	0.0	5.0	2.7uΔ			200m		5	5	1	40-18B	FP117		
52#	SFF24018AKM		CMS	6U	5.0M	9.99*	.01ΔC		9	9	0.0	10	500nΔ			200m	3.0 *	4	8	1	40-18B	DL16ch		
53#	MSM5536		CMS	8	2.0M*†	3.6*	.80Δ		4	15	0.0	5.0	1.0uΔ			200m	3.0 *	5	5	1	40-18B	DL16ch		
54#	MSM5536RS		CMS	8	2.0M*†	3.6*	.80Δ		4	40e	0.0	7.0	1.0uΔ			250u		2	7	1	E02-79	DL14bs		
55#	MSM5531RS		CMS	8	4.0M\$	3.6*	.8Δ		4	40e	0.0	7.0	300n			500n#	0.6	3	8	1	E02-79	DL14db		
56#	FZJ141A		DTL	1	500k†	7.5*	4.5Δ		8	10	0.0	12	200n			140n†	60n†	240m	5.0 †	0	7	1	E01-170	DL16k
57#	FZJ141A		DTL	1	500k†	7.5*	4.5Δ		8	10	0.0	12	200n			140n†	60n†	240m	5.0 †	0	7	1	E01-103	DL16k
58#	371AJ		DTL	1	500k†	7.5*	4.5Δ		8	10	0.0	12	200n			140n†	60n†	240m	5.0 †	2	8	1	E01-50a	DL16k
59#	371AJ		DTL	1	1.0M†	6.5Δ	5.0*		8	5	0.0	15	800nΔ			795m†	3.2	3	7	1	E01-50a	DL16bq		
60	371AJ		DTL	1	1.0M†	6.5Δ	5.0*		8	5	0.0	15	800nΔ			79								

11. COUNTERS

IN ORDER OF: (1) TECHNOLOGY (2) TYPE OF COUNTER
(3) OPERATING FREQ. (4) TYPE NO.

LINE No.	4] TYPE NO.	DATA SHT.	1] TECH	2] TYPE	3] MAX. OPER. FREQ. (Hz)	LOGIC LEVEL		FAN IN	FAN OUT	POWER SUPPLY SPAN (V)	POWER POS (V)	PROPAGATION DELAY (S)	RISE TIME (S)	FALL TIME (S)	MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE (C)	CKTS PER MOD	DRAWINGS			
						MIN. '1' (V)	MAX. '0' (V)												LOGIC OR BLOCK	OUTLINE		
1#	HD100136		ECL	2	300M*	-1.2*	-1.5Δ			5.7	0.0	3.5n			40m†	145m	0	8	4	E02-200	DL24aw	
2#	HD100136F		ECL	2	300M*	-1.2*	-1.5Δ			5.7	0.0	3.5n			40m†	145m	0	8	4	E02-200	FP146	
3#	GXB10137D		ECL	3	150M	-0.81	-1.4	4	4	5.2	0.0	2.0n	3.3n	3.3n			3	8	4	E03-35	DL16bg	
4#	GXB10137P		ECL	3	150M	-0.81	-1.4	4	4	5.2	0.0	2.0n	3.3n	3.3n			3	8	4	E03-35	DL16ga	
5#	HXA100136D#ai		ECL	6	300M\$	-1.8	-0.88			4.5	0	1.8n	1.7n	1.7n	800m		0	8	1	E06-33	DLZ	
6#	HXA100136F#ai		ECL	6	300M\$	-1.8	-0.88			4.5	0	1.8n	1.7n	1.7n	800m		0	8	1	E06-33	FPZ	
7#	GXB10136D		ECL	6	300M\$	-1.8	-0.88			5.2	0.0	5.0n	3.5n	3.5n			3	8	1	E07-3	DL16dz	
8#	GXB10136P		ECL	7	150M	-0.70	-1.9			5.2	0.0	5.0n	3.5n	3.5n			3	8	1	E07-3	DL16dy	
9#	MB10137		ECL	1	150M	-0.96*	-1.6ΔC	8	70	5.2	0.0	3.3n	3.3n	3.3n	625m†		3	8	1	E03-35	DL16ak	
10#	MB10137M		ECL	1	150M	-0.96*	-1.6ΔC	8	70	5.2	0.0	3.3n	3.3n	3.3n	625m†		3	8	1	E03-35	DL16ap	
11#	F10010DM		ECL	1	200M†	-0.93*	-1.6ΔC	8	40g	5.2	0.0	5.0n			598m%	145m*	5	5	1		DL16cj	
12#	F10010FM		ECL	1	200M†	-0.93*	-1.6ΔC	8	40g	5.2	0.0	5.0n			598m%	145m*	5	5	1		FP103	
13#	F95010DC		ECL	1	200M†	-1.1*	-1.4Δ	8	78g	5.2	0.0	5.0nΔ			598m%	140m*	5	0	7	1		DL16ci
14#	S54161E		ECL	2	25M\$	2.0*	0.85Δ	9	20	5.2	0.0	35nΔ			325m†	200m	5	5	1	E02-71	DL16t	
15#	S54161F		ECL	2	25M\$	2.0*	0.85Δ	9	20	5.2	0.0	35nΔ			325m†	200m	5	5	1	E02-71	FP79a	
16#	MC10178L		ECL	2	125M*	-0.96*	-1.6ΔC	7	7	5.2	0.0	9.2n	4.5n	4.5n	458m		3	8	1	E02-104	DL16ai	
17#	MC10178B		ECL	2	125M*	-0.96*	-1.6ΔC	7	7	5.2	0.0	9.2n	4.5n	4.5n	458m		3	8	1	E02-104	DL16bi	
18#	MC10578F		ECL	2	125M*	-0.93*	-1.6ΔC	7	7	5.2	0.0	9.2n	4.5n	4.5n	458m		5	5	1	E02-104	FP85	
19#	MC10578L		ECL	2	125M*	-0.93*	-1.6ΔC	7	7	5.2	0.0	9.2n	4.5n	4.5n	458m		5	5	1	E02-104	DL16am	
20#	MB10136		ECL	2	150M	-0.96*	-1.6ΔC	8	70	5.2	0.0	3.3n	3.3n	3.3n	625m†		3	8	1	E07-3	DL16ak	
21#	MB10136M		ECL	2	150M	-0.96*	-1.6ΔC	8	70	5.2	0.0	3.3n	3.3n	3.3n	625m†		3	8	1	E07-3	DL16ap	
22#	F10016DC		ECL	2	200M†	-0.96*	-1.6ΔC	8	80g	5.2	0.0	2.0n			598m%	145m*	5	0	7	1		DL16ci
23#	F10016DM		ECL	2	200M†	-0.93*	-1.6ΔC	8	40g	5.2	0.0	2.0n			598m%	145m*	5	5	1		E02-173	
24#	F10016FM		ECL	2	200M†	-0.93*	-1.6ΔC	8	40g	5.2	0.0	2.0n			598m%	145m*	5	5	1		E02-173	
25#	F95016DC		ECL	2	200M†	-1.1*	-1.4Δ	8	78g	5.2	0.0	5.0nΔ			598m%	140m*	5	0	7	1		DL16cj
26#	MC1654L		ECL	2	325M†	-0.96*	-1.6ΔC	7	7	5.2	0.0	2.7n	2.6n		750m†		3	8	1	E02-88	DL16aj	
27#	MC1699F		ECL	2	1.0G†	-0.96*	-1.6ΔC	7	7	5.0	2.0						3	8	1	E02-116	FP85	
28#	MC1699L		ECL	2	1.0G†	-0.96*	-1.6ΔC	7	7	5.0	2.0						3	8	1	E02-116	DL16am	
29#	GXB10137		ECL	3	100M	-0.88	-1.7C	8	70	5.2	0.0	2.0n	3.5n	3.5n	400m	200m	0	7	1	E03-35	DL16aa	
30#	10137F		ECL	3	150M†	-0.96*	-1.6ΔC	8	70	5.2	0.0	5.0n	3.3n	3.3n	625m†		3	8	1		DL16t	
31#	MC10137L		ECL	3	150M†	-0.96*	-1.6ΔC	8	70	5.2	0.0	3.3n	3.3n	3.3n	625m†		3	8	1	E03-35	DL16aj	
32#	MC10137P		ECL	3	150M†	-0.96*	-1.6ΔC	8	70	5.2	0.0	3.3n	3.3n	3.3n	625m†		3	8	1	E03-35	DL16bo	
33#	F10137DC		ECL	3	250M†	-0.96*	-1.6ΔC	8	80g	5.2	0.0	6.9nΔ	3.3n	3.3n	702m†	145m*	0	7	1	E03-67	DL16ci	
34#	F10537DM		ECL	3	250M†	-0.93*	-1.6ΔC	8	40g	5.2	0.0	6.9nΔ			702m†	145m*	5	5	1	E03-67	DL16ci	
35#	F10537FM		ECL	3	250M†	-0.93*	-1.6ΔC	8	40g	5.2	0.0	6.9nΔ			702m†	145m*	5	5	1	E03-67	FP103	
36#	MC10138L		ECL	6	125M*	-0.96*	-1.6ΔC	7	7	5.2	0.0	5.0n	4.5n	4.5n	458m		3	8	1	E06-15	DL16aj	
37#	MC10138P		ECL	6	125M*	-0.96*	-1.6ΔC	7	7	5.2	0.0	5.0n	4.5n	4.5n	458m		3	8	1	E06-15	DL16am	
38#	MC10538F		ECL	6	125M*	-0.93*	-1.6ΔC	7	7	5.2	0.0	5.0n	4.5n	4.5n	458m		5	5	1	E06-15	FP85	
39#	MC10538L		ECL	6	125M*	-0.93*	-1.6ΔC	7	7	5.2	0.0	5.0n	4.5n	4.5n	458m		5	5	1	E06-15	DL16am	
40#	MC1678L		ECL	6	350M†	-0.96*	-1.6ΔC	7	70	5.2	0.0	3.7n	2.7n	2.6n	750m†		3	8	1	E06-9	DL16aj	
41#	GXB10136		ECL	7	100M	-0.88	-1.7C	8	70	5.2	0.0	2.0n	3.5n	3.5n	400m	200m	0	7	1	E07-3	DL16aa	
42#	10136F		ECL	7	150M†	-0.96*	-1.6ΔC	8	70	5.2	0.0	5.0n	3.3n	3.3n	625m†		3	8	1		DL16t	
43#	MC10136L		ECL	7	125M*	-0.96*	-1.6ΔC	8	70	5.2	0.0	6.9n	3.3n	3.3n	780m		3	8	1	E07-3	DL16am	
44#	MC10136P		ECL	7	125M*	-0.96*	-1.6ΔC	8	70	5.2	0.0	6.9n	3.3n	3.3n	780m		3	8	1	E07-3	DL16i	
45#	F10136DC		ECL	7	250M†	-0.96*	-1.6ΔC	8	80g	5.2	0.0	6.9nΔ	3.3n	3.3n	702m†	145m*	0	7	1	E07-5	DL16ci	
46#	F10536DM		ECL	7	250M†	-0.93*	-1.6ΔC	8	40g	5.2	0.0	6.9nΔ			702m†	145m*	5	5	1	E07-5	DL16ci	
47#	F10536FM		ECL	7	250M†	-0.93*	-1.6ΔC	8	40g	5.2	0.0	6.9nΔ			702m†	145m*	5	5	1	E07-5	FP103	
48#	S360B110		IIL	6	2.0m	8.2	0.3			9.0	0.0	9.0					1	7	3		E06-34	
49#	S360B110C		IIL	6	2.0m	8.2	0.3			9.0	0.0	9.0					1	7	3		E06-34	
50#	K176IE4		MOS	Δ10	2.0m	8.2	0.3			9.0	0.0	9.0					1	7	3			
51#	K176IE2		MOS	Δ5	2.0m	8.2	0.3			9.0	0.0	9.0					1	7	3			
52#	K176IE3		MOS	Δ6E	2.0m	8.2	0.3			9.0	0.0	9.0					1	7	3			
53#	TC40102BP		MOS	2	4.0M	14.9	0.5*			0.0	15	200nΔ	80n	80n	300m	4.0 *	4	8	1	40-102	DLZ	
54#	TC40103BP		MOS	2	4.0M	14.9	0.5*			0.0	15	200nΔ	80n	80n	300m	4.0 *	4	8	1	40-102	DLZ	
55#	SFF24024AEV		MOS	2	7.0M	9.99*	0.1ΔC	2	20	0.0	10	150nΔ	150n	150n	200m	3.0 *	4	8	1	40-24B	TO116	
56#	K176IE1		MOS	2Δ6	2.0m	8.2	0.3			9.0	0.0	9.0					1	7	1			
57#	K176IE8		MOS	3E	2.0m	8.2	0.3			9.0	0.0	9.0					1	7	2		E02-59	
58#	Z80CTCCE#1		NCH	1	2.5M\$	2.0	0.80			0.0	5.0		30n†	30n*			4	8	4	J07-05	DL28c	
59#	Z80CTCCM#1		NCH	1	2.5M\$	2.0	0.80			0.0	5.0		30n†	30n*			5	5	4	J07-05	DL28c	
60#	Z80CTCCS#1		NCH	1	2.5M\$	2.0	0.80			0.0	5.0		30n†	30n*			0	7	4	J07-05	DL28c	
61#	Z80CTCPS#1		NCH	1	2.5M\$	2.0	0.80			0.0	5.0		30n†	30n*			0	7	4	J07-05	DL28d	
62#	Z80ACTCCE#1		NCH	1	4.0M\$	2.0	0.80			0.0	5.0		30n†	30n*			4	8	4	J07-05	DL28c	
63#	Z80ACTCCM#1		NCH	1	4.0M\$	2.0	0.															

11. COUNTERS

IN ORDER OF: (1) TECHNOLOGY (2) TYPE OF COUNTER
(3) OPERATING FREQ. (4) TYPE NO.

LINE NO.	TYPE NO.	DATA SHT.	TECH	TYPE	MAX. OPER. FREQ. (Hz)	LOGIC LEVEL		FAN		POWER SUPPLY SPAN		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS		
						MIN. '1' (V)	MAX. '0' (V)	IN	OUT MAX	NEG (V)	POS (V)		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE	
1	JANM38510/01307BAA		ITTL	1	10MS	2.0*	.80Δ	6	20	0.0	5.5	81nΔ			268m	5	C	1	54-90W	FP115	
2	JANM38510/01307BAB		ITTL	1	10MS	2.0*	.80Δ	6	20	0.0	5.5	81nΔ			268m	5	C	1	54-90W	FP115	
3	JANM38510/01307BCA		ITTL	1	10MS	2.0*	.80Δ	6	20	0.0	5.5	81nΔ			268m	5	C	1	74-90N	DL14bo	
4	JANM38510/01307BCB		ITTL	1	10MS	2.0*	.80Δ	6	20	0.0	5.5	81nΔ			268m	5	C	1	74-90N	DL14bo	
5	JANM38510/01307BDA		ITTL	1	10MS	2.0*	.80Δ	6	20	0.0	5.5	81nΔ			268m	5	C	1	54-90W	FP116	
6	JANM38510/01307BDB		ITTL	1	10MS	2.0*	.80Δ	6	20	0.0	5.5	81nΔ			268m	5	C	1	54-90W	FP116	
7	JANM38510/01307CAA		ITTL	1	10MS	2.0*	.80Δ	6	20	0.0	5.5	81nΔ			268m	5	C	1	54-90W	FP115	
8	JANM38510/01307CAB		ITTL	1	10MS	2.0*	.80Δ	6	20	0.0	5.5	81nΔ			268m	5	C	1	54-90W	FP115	
9	JANM38510/01307CCA		ITTL	1	10MS	2.0*	.80Δ	6	20	0.0	5.5	81nΔ			268m	5	C	1	54-90W	FP115	
10	JANM38510/01307CCB		ITTL	1	10MS	2.0*	.80Δ	6	20	0.0	5.5	81nΔ			268m	5	C	1	74-90N	DL14bo	
11	JANM38510/01307CDA		ITTL	1	10MS	2.0*	.80Δ	6	20	0.0	5.5	81nΔ			268m	5	C	1	74-90N	DL14bo	
12	JANM38510/01307CDB		ITTL	1	10MS	2.0*	.80Δ	6	20	0.0	5.5	81nΔ			268m	5	C	1	54-90W	FP116	
13	N7490F		ITTL	1	10M\$	2.0*	.80Δ	6	20	0.0	5.5	81nΔ			268m	5	C	1	54-90W	FP116	
14	N7490N		ITTL	1	10M\$	2.0*	.80Δ	6	10	0.0	5.0	100nΔ			265m	1.0 †	0	7	74-90N	DL14bh	
15	N8280F		ITTL	1	10M\$	2.6*	.40CΔ	8	10	0.0	5.0	50nΔ			225m	0	7	1	74-90N	DL14br	
16	N8280N		ITTL	1	10M\$	2.6*	.40CΔ	8	10	0.0	5.0	50nΔ			225m	0	7	1	74-176N	DL14bh	
17	N8292Q		ITTL	1	10MT†	2.6*	.40C	8	4	0.0	5.0	50nΔ	5.0n	5.0n	225m	0	7	1	74-176N	DL14br	
18	S5490F		ITTL	1	10M\$	2.0*	.80Δ	6	10	0.0	5.0	100nΔ			230m	1.0 †	5	C	1	TO88	DL14bh
19	S5490W		ITTL	1	10M\$	2.0*	.80Δ	6	10	0.0	5.0	100nΔ			230m	1.0 †	5	C	1	74-90N	FP39e
20	S8280F		ITTL	1	10M\$	2.6*	.40CΔ	8	10	0.0	5.0	50nΔ			225m	5	C	1	74-176N	DL14bh	
21	S8280W		ITTL	1	10M\$	2.6*	.40CΔ	8	10	0.0	5.0	50nΔ			225m	5	C	1	54-176W	FP39e	
22	DM54L90J		ITTL	1	11MS†	2.0*	.70Δ	5	20	0.0	5.0	300nΔ			20m†	5	C	1	74-90N	DL14ax	
23	DM74L90N		ITTL	1	11MS†	2.0*	.70Δ	5	20	0.0	5.0	300nΔ			20m†	0	7	1	74-90N	DL14bt	
24	DM54L192J		ITTL	1	12MS†	2.0*	.70Δ	10	20	0.0	5.0	150nΔ			40m†	5	C	1	74-192N	DL16ai	
25	DM54L192W#mil		ITTL	1	12M\$	2.0*	.70Δ	10	20	0.0	5.0	150nΔ			40m†	5	C	1	74-192N	DL16ai	
26	DM74L192N		ITTL	1	12M\$	2.0*	.70Δ	10	20	0.0	5.0	150nΔ			40m†	0.4	5	C	1	E02-158	FP98b
27	93L10DC		ITTL	1	13M†	2.0*	.70Δ	9	9	0.0	5.0	95nΔ			75m†	0	7	1	74-160N	DL16bu	
28	93L10DM		ITTL	1	13M†	2.0*	.70Δ	9	9	0.0	5.0	95nΔ			75m†	5	C	1	74-160N	DL24t	
29	93L10FM		ITTL	1	13M†	2.0*	.70Δ	9	9	0.0	5.0	95nΔ			75m†	5	C	1	74-160N	DL24t	
30	93L10PC		ITTL	1	13M†	2.0*	.70Δ	9	9	0.0	5.0	95nΔ			75m†	0	7	1	54-160W	FP79b	
31	93L10PC#		ITTL	1	13M†	2.0*	.80Δ	9	9	0.0	5.0	95nΔ			75m†	0	7	1	74-160N	DL16ce	
32	DM76L75F		ITTL	1	13M†	2.0*	.70Δ	10	10	0.0	5.0	140nΔ			32m†	5	C	1	E01-79a	FP88b	
33	DM76L75J		ITTL	1	13M†	2.0*	.70Δ	10	10	0.0	5.0	140nΔ			32m†	5	C	1	E01-79a	DL16ai	
34	DM76L75N		ITTL	1	13M†	2.0*	.70Δ	10	10	0.0	5.0	140nΔ			32m†	5	C	1	E01-79a	DL16bu	
35	DM86L75F		ITTL	1	13M†	2.0*	.70Δ	10	10	0.0	5.0	140nΔ			32m†	0	7	1	E01-79a	FP88b	
36	DM86L75J		ITTL	1	13M†	2.0*	.70Δ	10	10	0.0	5.0	140nΔ			32m†	0	7	1	E01-79a	DL16ai	
37	DM86L75N		ITTL	1	13M†	2.0*	.70Δ	10	10	0.0	5.0	140nΔ			32m†	0	7	1	E01-79a	DL16bu	
38	9310DC		ITTL	1	15M†	2.0*	.80Δ	10	6	0.0	5.0	50nΔ			470m%	400m	0	7	1	74-160N	DL16bd
39	9310DM		ITTL	1	15M†	2.0*	.80Δ	10	6	0.0	5.0	50nΔ			470m%	400m	5	C	1	74-160N	DL16bd
40	9310FM		ITTL	1	15M†	2.0*	.80Δ	10	6	0.0	5.0	50nΔ			470m%	400m	5	C	1	54-160W	FP79b
41	N74LS290D		ITTL	1	15M*	2.0*	.80Δ	6	20	0.0	5.0	50nΔ			75m	0	7	1	74-290N	DL14bh	
42	N74LS290N		ITTL	1	15M*	2.0*	.80Δ	6	20	0.0	5.0	50nΔ			75m	0	7	1	74-290	DL14br	
43	N74LS90F		ITTL	1	16M	2.0*	.80Δ	6	20	0.0	5.0	50nΔ			75m	0	7	1	54-90	DL14bh	
44	N74LS90N		ITTL	1	16M	2.0*	.80Δ	6	20	0.0	5.0	50nΔ			75m	0	7	1	74-90N	DL14br	
45	S54LS90F		ITTL	1	16M	2.0*	.70Δ	6	6	0.0	5.0	50nΔ			75m	5	C	1	74-90N	DL14bh	
46	S54LS90W		ITTL	1	16M	2.0*	.70Δ	6	6	0.0	5.0	50nΔ			75m	5	C	1	54-90W	FP39e	
47	JANM38510/31513BEB		ITTL	1	18M	2.0*	.70Δ	8	10d	0.0	5.0	80nΔ			193m	5	C	1	74-190N	DL16br	
48	JANM38510/31513CEB		ITTL	1	18M	2.0*	.70Δ	8	10d	0.0	5.0	80nΔ			193m	5	C	1	74-190N	DL16br	
49#	SFC490E		ITTL	1	18M†	2.0*	.80Δ	6	10	0.0	5.0	75n			160m†	1.0	0	7	1	74-90N	TO116
50#	SFC490EM		ITTL	1	18M†	2.0*	.80Δ	6	10	0.0	5.0	75n			160m†	1.0	5	C	1	74-90N	TO116
51#	SFC490ET		ITTL	1	18M†	2.0*	.80Δ	6	10	0.0	5.0	75n			160m†	1.0	2	8	1	74-90N	TO116
52#	SFC490PM		ITTL	1	18M†	2.0*	.80Δ	6	10	0.0	5.0	75n			160m†	1.0	5	C	1	54-90W	TO85
53#	ZN7490E		ITTL	1	18M†	2.0*	.80Δ	6	6	0.0	5.0	100nΔ			160m%	0	7	1	74-90N	DL14m	
54#	ZN7490F		ITTL	1	18M†	2.0*	.80Δ	6	6	0.0	5.0	100nΔ			160m%	0	7	1	54-90W	TO86	
55	S4LS190FM		ITTL	1	20M*	2.0*	.80Δ	4	5	0.0	5.0	36nΔ			175m%	300m	5	C	1	54-190W	FP93c
56	S4LS390DM		ITTL	1	20M*	2.0*	.70Δ	3	22d	0.0	5.0	35nΔ			400m*	5	C	2	74-390N	DL16cj	
57	S4LS390FM		ITTL	1	20M*	2.0*	.70Δ	3	22d	0.0	5.0	35nΔ			400m*	5	C	2	54-390	FP103	
58	74LS390DC		ITTL	1	20M*	2.0*	.80Δ	3	22d	0.0	5.0	35nΔ			300m*	0	7	2	74-390N	DL16cj	
59	74LS390PC		ITTL	1	20M*	2.0*	.80Δ	3	22d	0.0	5.0	35nΔ			300m*	0	7	2	74-390N	DL16cj	
60	JANM38510/01303BEA		ITTL	1	20M\$	2.0*	.80Δ	4	20	0.0	5.5	58nΔ			500m	5	C	1	74-160N	DL16br	
61	JANM38510/01303BEB		ITTL	1	20M\$	2.0*	.80Δ	4	20	0.0	5.5	58nΔ			500m	5	C	1	74-160N	DL16br	
62	JANM38510/01303BFA		ITTL	1	20M\$	2.0*	.80Δ	4	20	0.0	5.5	58nΔ			500m	5	C	1	54-160W	FP117	
63	JANM38510/01303BFB		ITTL	1	20M\$	2.0*	.80Δ	4	20	0.0	5.5	58nΔ			500m	5	C	1	54-160W	FP117	
64	JANM38510/01303CEA		ITTL	1	20M\$	2.0*	.80Δ	4	20	0.0	5.5	58nΔ			500m	5	C	1	74-160N	DL16br	
65	JANM38510/01303CEB		ITTL	1	20M\$	2.0*	.80Δ	4	20	0.0	5.5	58nΔ			500m	5	C	1	74-160N	DL16br	
66	JANM38510/01303CFA		ITTL	1	20M\$	2.0*	.80Δ	4	20	0.0	5.5	58nΔ			500m	5	C	1	74-160N	DL16br	
67	JANM38510/01303CFB		ITTL	1	20M\$	2.0*	.80Δ	4	20	0.0	5.5	58nΔ			500m	5	C	1	54-160W	FP117	
68	JANM38510/01305BEA		ITTL	1	20M\$	2.0*	.80Δ	4	20	0.0	5.5	58nΔ			500m	5	C	1	54-160W	FP117	
69	JANM38510/01305BEB		ITTL	1	20M\$	2.0*	.80Δ	4	20	0.0	5.5	58nΔ			500m	5	C	1	74-162N	DL16br	
70	JANM38510/01305BFA		ITTL	1	20M\$	2.0*	.80Δ	4	20	0.0	5.5	58nΔ			500m	5	C	1	74-162N	DL16br	
71	JANM38510/01305BFB		ITTL	1	20M\$	2.0*	.80Δ	4	20	0.0	5.5	58nΔ			500m	5	C	1	54-162W	FP117	
72	JANM38510/01305CEA		ITTL	1	20M\$	2.0*	.80Δ	4	20	0.0	5.5	58nΔ			500m	5	C	1	54-162W	FP117	
73	JANM38510/01305CEB		ITTL	1	20M\$	2.0*	.80Δ	4	20	0.0	5.5	58nΔ									

11. COUNTERS

IN ORDER OF:(1)TECHNOLOGY(2)TYPE OF COUNTER
(3)OPERATING FREQ.(4)TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE	MAX. OPER. FREQ. (Hz)	LOGIC LEVEL		FAN		POWER SUPPLY SPAN		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS			
						MIN. '1' (V)	MAX. '0' (V)	IN	OUT MAX	NEG (V)	POS (V)		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE		
1	N8290F		TTL	1	20M*	2.6*	.40CΔ	8	10	0.0	5.0	80nΔ			242m		0	7	1	74-176N	DL14bh	
2	N8290N		TTL	1	20M*	2.6*	.40C	8	10	0.0	5.0	80nΔ			242m		0	7	1	74-176N	DL14br	
3	S54LS390F		TTL	1	20M*	2.0*	.70Δ	3		0.0	5.0	60nΔ			130m		5	C	2	74-390	DL16aw	
4	S54LS390W		TTL	1	20M*	2.0*	.70Δ	3		0.0	5.0	60nΔ			130m		5	C	2	54-390W	FP47g	
5	S8290F		TTL	1	20M*	2.6*	.40CΔ	8	6	0.0	5.0	60nΔ			242m		5	C	1	74-176N	DL14bh	
6	S8290W		TTL	1	20M*	2.6*	.40C	8	6	0.0	5.0	60nΔ			242m		5	C	1	54-176W	FP39e	
7	S54190F		TTL	1	20M*	2.0*	.80Δ	8	20	0.0	5.0	52nΔ			525m	1.0	†	5	C	1	74-190N	DL16aw
8	S54190W		TTL	1	20M*	2.0*	.80Δ	8	20	0.0	5.0	52nΔ			525m	1.0	†	5	C	1	54-190W	FP47g
9	SN54LS390J		TTL	1	20M	2.0*	.70Δ	3	11d	0.0	5.0	60nΔ			130m	1.0	†	5	C	2	74-390N	DL16v
10	SN54LS390W		TTL	1	20M	2.0*	.70Δ	3	11d	0.0	5.0	60nΔ			130m	1.0	†	5	C	2	54-390W	MO004AG
11	SN54LS490J		TTL	1	20M	2.0*	.70Δ	3	11d	0.0	5.0	54nΔ			130m	1.0	†	5	C	2	74-490N	DL16v
12	SN54LS490W		TTL	1	20M	2.0*	.70Δ	3	11d	0.0	5.0	54nΔ			130m	1.0	†	5	C	2	54-490W	MO004AG
13	SN74LS390J		TTL	1	20M	2.0*	.80Δ	3	22d	0.0	5.0	60nΔ			130m	1.0	†	0	7	2	74-390N	DL16v
14	SN74LS390N		TTL	1	20M	2.0*	.80Δ	3	22d	0.0	5.0	60nΔ			130m	1.0	†	0	7	2	74-390N	DL16i
15	SN74LS490J		TTL	1	20M	2.0*	.80Δ	3	22d	0.0	5.0	54nΔ			130m	1.0	†	0	7	2	74-490N	DL16v
16	SN74LS490N		TTL	1	20M	2.0*	.80Δ	3	22d	0.0	5.0	54nΔ			130m	1.0	†	0	7	2	74-490N	DL16i
17	SN5490N		TTL	1	20M	2.4*	.40Δ	6	10	0.0	5.0	50n			160m	1.0	†	5	C	1	74-90	DL14a
18	JANM38510/31503BEB		TTL	1	22M	2.0*	.70Δ	9	10d	0.0	5.0	56nΔ			176m		5	C	1	74-160N	DL16br	
19	JANM38510/31503CEB		TTL	1	22M	2.0*	.70Δ	9	10d	0.0	5.0	56nΔ			176m		5	C	1	74-160N	DL16br	
20	JANM38510/31511BEB		TTL	1	22M	2.0*	.70Δ	9	10d	0.0	5.0	56nΔ			176m		5	C	1	74-162N	DL16br	
21	JANM38510/31511CEB		TTL	1	22M	2.0*	.70Δ	9	10d	0.0	5.0	56nΔ			176m		5	C	1	74-162N	DL16br	
22	93L60DC		TTL	1	23M†	2.0*	.70Δ	10	10d	0.0	5.0	75nΔ			176m		5	C	1	74-162N	DL16br	
23	93L60DM		TTL	1	23M†	2.0*	.70Δ	10	10d	0.0	5.0	75nΔ			85m†		5	C	1	74-192N	DL16bd	
24	93L60FM		TTL	1	23M†	2.0*	.70Δ	10	10d	0.0	5.0	75nΔ			85m†		5	C	1	74-192N	DL16bd	
25	93L60PC		TTL	1	23M†	2.0*	.70Δ	10	10d	0.0	5.0	75nΔ			85m†		5	C	1	74-192N	DL16ce	
26	54190FM		TTL	1	25M†	2.0*	.80Δ	8	10	0.0	5.0	50nΔ			325m†	400m*	5	C	1	54-190W	FP78b	
27	54192FM		TTL	1	25M†	2.0*	.80Δ	8	10	0.0	5.0	47nΔ			325m†	400m*	5	C	1	54-192W	FP103	
28	74162PC		TTL	1	25M*	2.0*	.80Δ	9	10	0.0	5.0	15n			15n		0	7	1	74-162N	FP93c	
29	74190PC		TTL	1	25M*	2.0*	.80Δ	8	10	0.0	5.0	50nΔ			325m†	400m*	0	7	1	74-190N	TO116	
30	DM74190J		TTL	1	25M†	2.0*	.80Δ	8	10	0.0	5.0	54nΔ			525m%		0	7	1	74-190N	DL16ai	
31	DM74190N		TTL	1	25M†	2.0*	.80Δ	8	10	0.0	5.0	54nΔ			525m%		0	7	1	74-190N	DL16bu	
32	DM74190W		TTL	1	25M†	2.0*	.80Δ	8	10	0.0	5.0	54nΔ			525m%		0	7	1	54-190W	FP88a	
33#	M74LS160AP		TTL	1	25MT*	2.0*	.80Δ	9	22d	0.0	5.0	35nΔ			176m	400m*	2	7	1	74-162	DL16db	
34#	M74LS162AP		TTL	1	25MT*	2.0*	.80Δ	9	22d	0.0	5.0	35nΔ			176m	400m*	2	7	1	74-162	DL16db	
35#	M53360P		TTL	1	25M\$*	2.0*	.80Δ	9	10	0.0	5.0	38nΔ			305m†	400m	0	7	1	74-160N	DL16u	
36#	M53362P		TTL	1	25M\$*	2.0*	.80Δ	9	10	0.0	5.0	38nΔ			305m†	400m	0	7	1	74-162N	DL16u	
37#	M53390P		TTL	1	25M\$*	2.0*	.80Δ	8	10	0.0	5.0	50nΔ			325m†	400m	0	7	1	74-190N	DL16u	
38#	MB74LS160A		TTL	1	25M*	2.0*	.80Δ	9	20	0.0	5.0	35nΔ			160m		2	7	1	74-160N	DL16as	
39#	MB74LS160AM		TTL	1	25M*	2.0*	.80Δ	9	20	0.0	5.0	35nΔ			160m		2	7	1	74-160N	DL16as	
40#	MB74LS161A		TTL	1	25M*	2.0*	.80Δ	9	20	0.0	5.0	35nΔ			160m		2	7	1	74-161N	DL16cu	
41#	MB74LS161AM		TTL	1	25M*	2.0*	.80Δ	9	20	0.0	5.0	35nΔ			160m		2	7	1	74-161N	DL16cu	
42#	MB74LS162A		TTL	1	25M*	2.0*	.80Δ	9	20	0.0	5.0	35nΔ			160m		2	7	1	74-162N	DL16as	
43#	MB74LS162AM		TTL	1	25M*	2.0*	.80Δ	9	20	0.0	5.0	35nΔ			160m		2	7	1	74-162N	DL16cu	
44	N74LS160AF		TTL	1	25M*	2.0*	.80Δ	9	20	0.0	5.0	28nΔ			160m		0	7	1	74-160N	DL16aw	
45	N74LS160AN		TTL	1	25M*	2.0*	.80Δ	9	20	0.0	5.0	28nΔ			160m		0	7	1	74-160	DL16bp	
46	N74LS162AF		TTL	1	25M*	2.0*	.80Δ	9	20	0.0	5.0	27nΔ			160m		0	7	1	74-162N	DL16aw	
47	N74LS162AN		TTL	1	25M*	2.0*	.80Δ	9	20	0.0	5.0	27nΔ			160m		0	7	1	74-162N	DL16bp	
48	N74LS490F		TTL	1	25M	2.0*	.80Δ	3	20	0.0	5.0	54nΔ			130m		0	7	2	74-490N	DL16aw	
49	N74LS490N		TTL	1	25M	2.0*	.80Δ	3	20	0.0	5.0	54nΔ			130m		0	7	2	74-490N	DL16bp	
50	N74160F		TTL	1	25M*	2.0*	.80Δ	9	10	0.0	5.0	38nΔ			505m	1.0	†	0	7	1	74-160N	DL16aw
51	N74160N		TTL	1	25M*	2.0*	.80Δ	9	10	0.0	5.0	38nΔ			505m		0	7	1	74-160N	DL16bp	
52	N74162F		TTL	1	25M*	2.0*	.80Δ	9	10	0.0	5.0	35nΔ			505m	1.0	†	0	7	1	74-162N	DL16aw
53	N74162N		TTL	1	25M*	2.0*	.80Δ	9	10	0.0	5.0	35nΔ			505m		0	7	1	74-162N	DL16bp	
54	N74190W		TTL	1	25M†	2.0*	.80Δ	8	20	0.0	5.0	52nΔ			525m	1.0	†	0	7	1	54-190W	FP47g
55	S54LS160AF		TTL	1	25M*	2.0*	.70Δ	9	10	0.0	5.0	28nΔ			160m		5	C	1	74-160N	DL16aw	
56	S54LS160AW		TTL	1	25M*	2.0*	.70Δ	9	10	0.0	5.0	28nΔ			160m		5	C	1	54-160W	FP47g	
57	S54LS162AF		TTL	1	25M*	2.0*	.70Δ	9	10	0.0	5.0	27nΔ			160m		5	C	1	74-162N	DL16aw	
58	S54LS162AW		TTL	1	25M*	2.0*	.70Δ	9	10	0.0	5.0	27nΔ			160m		5	C	1	54-162W	FP47g	
59	S54LS490F		TTL	1	25M	2.0*	.70Δ	3	10	0.0	5.0	54nΔ			130m		5	C	2	74-490	DL16aw	
60	S54LS490W		TTL	1	25M	2.0*	.70Δ	3	10	0.0	5.0	54nΔ			130m		5	C	2	54-490W	FP47g	
61	S54160F		TTL	1	25M*	2.0*	.80Δ	10	20	0.0	5.0	35nΔ			455m	1.0	†	5	C	1	74-160N	DL16aw
62	S54160W		TTL	1	25M*	2.0*	.80Δ	10	20	0.0	5.0	35nΔ			455m	1.0	†	5	C	1	54-160W	FP47g
63	S54162F		TTL	1	25M*	2.0*	.80Δ	10	20	0.0	5.0	35nΔ			455m	1.0	†	5	C	1	74-162N	DL16aw
64	S54162W		TTL	1	25M*	2.0*	.80Δ	10	20	0.0	5.0	35nΔ			455m	1.0	†	5	C	1	54-162W	FP47g
65	SN54LS160J		TTL	1	25M\$*	2.0*	.70Δ	9	10	0.0	5.0	38nΔ			93m†	300m	5	C	1	74-160N	DL16v	
66	SN54LS160W		TTL	1	25M\$*	2.0*	.70Δ	9	10	0.0	5.0	38nΔ			93m†	300m	5	C	1	54-160W	MO004AG	
67	SN54LS162J		TTL	1	25M\$*	2.0*	.70Δ	9	10	0.0	5.0	38nΔ			93m†	300m	5	C	1	74-162N	DL16v	
68	SN54LS162W		TTL	1	25M\$*	2.0*	.70Δ	9	10	0.0	5.0	38nΔ			93m†	300m	5	C	1	54-162W	MO004AG	
69	SN54LS168J		TTL	1	25M*	2.0*	.70Δ	9	10d	0.0	5.0	30n			170m		5	C	1	74S168N	DL16am	
70	SN54LS190J		TTL	1	25M*	2.0*	.80Δ	8	10d	0.0	5.0	50nΔ			175m		5	C	1	74-190N	DL16v	
71	SN54LS190W		TTL	1	25M*	2.0*	.80Δ	8	10d	0.0	5.0	50nΔ			175m		5	C	1	54-190W	MO004AG	
72	SN54LS568J		TTL																			

11. COUNTERS

IN ORDER OF (1) TECHNOLOGY (2) TYPE OF COUNTER
(3) OPERATING FREQ. (4) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE	MAX. OPER. FREQ. (Hz)	LOGIC LEVEL		IN	OUT MAX	POWER SUPPLY SPAN NEG (V)	POWER SUPPLY SPAN POS (V)	PROPAGATION DELAY (S)	RISE TIME (S)	FALL TIME (S)	MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS		
						MIN. (V)	MAX. (V)												LOGIC OR BLOCK	OUTLINE	
1	JANM38510/31501	CCB	TTL	1	29M	2.0*	.70Δ	6	10d	0.0	5.0	81nΔ			83m		5	C	1		
2	54192DM		TTL	1	30M†	2.0*	.80Δ	8	10	0.0	5.0	47nΔ			325m†	400m*	5	C	1	74-192N	DL14bo
3	74192DC		TTL	1	30M†	2.0*	.80Δ	8	10	0.0	5.0	47nΔ			325m†	400m*	0	7	1	74-192N	DL16cp
4	74192PC		TTL	1	30M†	2.0*	.80Δ	8	10	0.0	5.0	47nΔ			325m†	400m*	0	7	1	74-192N	DL16cp
5	AM25LS190DC		TTL	1	30M†	2.0*	.80Δ	8	10	0.0	5.0	30n			175m%		0	7	1	74-190N	DL16ca
6	AM25LS190DM		TTL	1	30M†	2.0*	.70Δ	8	10	0.0	5.0	30n			175m%		5	C	1	74-190N	DL16ca
7	AM25LS190FM		TTL	1	30M†	2.0*	.70Δ	8	10	0.0	5.0	30n			175m%		5	C	1	54-190W	FP79b
8	AM25LS190PC		TTL	1	30M†	2.0*	.80Δ	8	10	0.0	5.0	30n			175m%		0	7	1	74-190N	DL16ce
9	DM7560J		TTL	1	30M\$†	2.0*	.80Δ	8	10	0.0	5.0	47nΔ			510m%		5	C	1	74-192N	DL16ai
10	DM7560W		TTL	1	30M\$†	2.0*	.80Δ	8	10	0.0	5.0	47nΔ			510m%		5	C	1	74-192W	FP88a
11	DM8560J		TTL	1	30M\$†	2.0*	.80Δ	8	10	0.0	5.0	47nΔ			510m%		0	7	1	74-192N	DL16ai
12	DM8560N		TTL	1	30M\$†	2.0*	.80Δ	8	10	0.0	5.0	47nΔ			510m%		0	7	1	74-192N	DL16bu
13	DM54192W		TTL	1	30M\$†	2.0*	.80Δ	8	10	0.0	5.0	47nΔ			510m%		5	C	1	54-192W	FP88a
14	DM74192J		TTL	1	30M\$†	2.0*	.80Δ	8	10	0.0	5.0	47nΔ			510m%		0	7	1	74-192N	DL16ai
15	DM74192N		TTL	1	30M\$†	2.0*	.80Δ	8	10	0.0	5.0	47nΔ			510m%		0	7	1	74-192N	DL16bu
16#	MB451		TTL	1	30M	2.0*	.80Δ	9	10	0.0	5.0				475m†		0	7	1	74-160N	DL16ak
17#	MB451M		TTL	1	30M	2.0*	.80Δ	9	10	0.0	5.0				475m†		0	7	1	74-160N	DL16ap
18#	MB457		TTL	1	30M	2.0*	.80Δ	8	10	0.0	5.0				325m†		0	7	1	74-190N	DL16ak
19#	MB457M		TTL	1	30M	2.0*	.80Δ	8	10	0.0	5.0				325m†		0	7	1	74-190N	DL16ap
20	N74LS196F		TTL	1	30M*	2.0*	.80Δ	8	20	0.0	5.0	52nΔ			135m		0	7	1	74-176N	DL14bh
21	N74LS196N		TTL	1	30M*	2.0*	.80Δ	8	20	0.0	5.0	52nΔ			135m		0	7	1	74-176N	DL14br
22	N8285A		TTL	1	30M†	2.0*	.80Δ	6	12	0.0	5.0		5.0n	5.0n	360m		0	7	1	E02-51a	DL14bu
23	N8285F		TTL	1	30M†	2.0*	.80Δ	6	12	0.0	5.0				360m		0	7	1	E02-51a	DL14bi
24	S54LS196F		TTL	1	30M*	2.0*	.70Δ	8	10	0.0	5.0	52nΔ			135m		5	C	1	74-176N	DL14bh
25	S54LS196W		TTL	1	30M*	2.0*	.70Δ	8	10	0.0	5.0	52nΔ			135m		5	C	1	54-176W	FP39e
26	S54LS290F		TTL	1	30M*	2.0*	.70Δ	6		0.0	5.0	50nΔ			75m		5	C	1	74-290N	DL14bh
27	S54LS290W		TTL	1	30M*	2.0*	.70Δ	6		0.0	5.0	50nΔ			75m		5	C	1	54-290W	FP39e
28	S8285F		TTL	1	30M†	2.0*	.80Δ	6	12	0.0	5.0				360m		5	C	1	E02-51a	DL14bi
29	SN54LS192J		TTL	1	30M*	2.0*	.70Δ	8	10d	0.0	5.0	47nΔ			170m		5	C	1	74-192N	DL16v
30	SN74LS192J		TTL	1	30M*	2.0*	.70Δ	8	22d	0.0	5.0	47nΔ			170m		0	7	1	74-192N	DL16v
31	SN74LS192N		TTL	1	30M*	2.0*	.70Δ	8	22d	0.0	5.0	47nΔ			170m		0	7	1	74-192N	MO004AG
32	54LS90FM		TTL	1	32M*	2.0*	.70Δ	6	10	0.0	5.0	50nΔ			75m	400m*	5	C	1	54-90W	FP52
33	9360DC		TTL	1	32M†	2.0*	.80Δ	8	6	0.0	5.0	47nΔ			510m%		0	7	1	74-192N	DL16bd
34	9360DM		TTL	1	32M†	2.0*	.80Δ	8	6	0.0	5.0	47nΔ			445m%		5	C	1	74-192N	DL16bd
35	9360FM		TTL	1	32M†	2.0*	.80Δ	8	6	0.0	5.0	47nΔ			445m%		5	C	1	54-192W	FP79b
36	9360PC		TTL	1	32M†	2.0*	.80Δ	8	6	0.0	5.0	47nΔ			510m%		0	7	1	74-192N	DL16ce
37	54160DM		TTL	1	32M†	2.0*	.80Δ	9	10	0.0	5.0	38nΔ			305m†	400m*	5	C	1	74-160N	DL16cp
38	54160FM		TTL	1	32M*	2.0*	.80Δ	9	10	0.0	5.0	38nΔ			305m†	400m*	5	C	1	54-160W	FP93c
39	54162FM		TTL	1	32M*	2.0*	.80Δ	9	10	0.0	5.0	38nΔ			305m†	400m*	5	C	1	54-162W	FP93c
40	74160DC		TTL	1	32M†	2.0*	.80Δ	9	10	0.0	5.0	38nΔ			305m†	400m*	0	7	1	74-160N	DL16cp
41	74160PC		TTL	1	32M†	2.0*	.80Δ	9	10	0.0	5.0	38nΔ			305m†	400m*	0	7	1	74-160N	DL16cp
42#	SFC4192E		TTL	1	32M†	2.0*	.80Δ	8	10	0.0	5.0	47nΔ			325m†		0	7	1	74-192N	DL16a
43#	SFC4192EM		TTL	1	32M†	2.0*	.80Δ	8	10	0.0	5.0	47nΔ			325m†		5	C	1	74-192N	DL16a
44#	SFC4192ET		TTL	1	32M†	2.0*	.80Δ	8	10	0.0	5.0	47nΔ			325m†		2	8	1	74-192N	DL16a
45	SN54LS160AJ		TTL	1	32M	2.0*	.70Δ	9	10	0.0	5.0	35nΔ			160m		5	C	1	74-160N	DL16v
46	SN54LS160AW		TTL	1	32M	2.0*	.70Δ	9	10	0.0	5.0	35nΔ			160m		5	C	1	54-160W	MO004AG
47	SN54LS162AJ		TTL	1	32M	2.0*	.70Δ	9	10d	0.0	5.0	35nΔ			160m		5	C	1	74-162N	DL16v
48	SN54LS162AW		TTL	1	32M	2.0*	.70Δ	9	10d	0.0	5.0	35nΔ			160m		5	C	1	54-162W	MO004AG
49	SN54LS192W		TTL	1	32M\$†	2.0*	.70Δ	8	10	0.0	5.0	47nΔ			170m		5	C	1	54-192W	MO004AG
50	SN74LS160AJ		TTL	1	32M	2.0*	.80Δ	9	10	0.0	5.0	35nΔ			160m		0	7	1	74-160N	DL16v
51	SN74LS160AN		TTL	1	32M	2.0*	.80Δ	9	10	0.0	5.0	35nΔ			160m		0	7	1	74-160N	DL16i
52	SN74LS162AJ		TTL	1	32M	2.0*	.80Δ	9	20d	0.0	5.0	35nΔ			160m		0	7	1	74-162N	DL16v
53	SN74LS162AN		TTL	1	32M	2.0*	.80Δ	9	20d	0.0	5.0	35nΔ			160m		0	7	1	74-162N	DL16i
54	SN54192J		TTL	1	32M†	2.0*	.80Δ	8	60	0.0	5.0	47nΔ			325m†		5	C	1	74-192N	DL16v
55	SN54192W		TTL	1	32M†	2.0*	.80Δ	8	60	0.0	5.0	47nΔ			325m†		5	C	1	54-192W	MO004AG
56	SN74192J		TTL	1	32M†	2.0*	.80Δ	8	60	0.0	5.0	47nΔ			325m†		0	7	1	74-192N	DL16v
57	SN74192N		TTL	1	32M†	2.0*	.80Δ	8	60	0.0	5.0	47nΔ			325m†		0	7	1	74-192N	DL16i
58#	ZN54192E		TTL	1	32M†	2.0*	.80Δ	8	60	0.0	5.0	47nΔ			325m†	1.0 †	5	C	1	74-192N	TO116
59#	ZN54192J		TTL	1	32M†	2.0*	.80Δ	8	60	0.0	5.0	47nΔ			325m†	1.0 †	5	C	1	74-192N	DL14ap
60#	ZN74192E		TTL	1	32M†	2.0*	.80Δ	8	60	0.0	5.0	47nΔ			325m†	1.0 †	0	7	1	74-192N	TO116
61#	ZN74192J		TTL	1	32M†	2.0*	.80Δ	8	60	0.0	5.0	47nΔ			325m†	1.0 †	0	7	1	74-192N	DL14ap
62	DM54LS390J#mil		TTL	1	35M	2.0	0.8			0	7.0	20n				0.4	5	C	1	E01-113	DL16au
63	DM54LS390W#mil		TTL	1	35M	2.0	0.8			0	7.0	20n				0.4	5	C	1	E01-113	DL16au
64	DM74LS390N		TTL	1	35M	2.0	0.8			0	7.0	20n				0.4	5	C	1	E01-113	

11. COUNTERS

IN ORDER OF (1) TECHNOLOGY (2) TYPE OF COUNTER
(3) OPERATING FREQ. (4) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	T Y P E	MAX. OPER. FREQ. (Hz)	LOGIC LEVEL		FAN		POWER SUPPLY SPAN (V)	PROPAGATION DELAY (S)	MAXIMUM RISE TIME (S)	FALL TIME (S)	MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS	
						MIN. '1' (V)	MAX. '0' (V)	IN	OUT MAX									LOGIC OR BLOCK	OUTLINE
1#	ZN74197E		TTL	1	50M\$†	2.0*	80Δ	8	10	0.0	5.0			240m†	1.0	0	†	74-177N	TO116
2#	ZN74197J		TTL	1	50M\$†	2.0*	80Δ	8	10	0.0	5.0			240m†	1.0	0	†	74-177N	DL14ap
3	54LS196FM		TTL	1	60M	2.0*	80Δ	8	5	0.0	5.0			100m%	300m	5	C	54-176W	FP52
4	74LS196PC		TTL	1	60M	2.0*	80Δ	8	5	0.0	5.0			100m%	300m	5	C	54-176N	TO116
5	54196FM		TTL	1	60M	2.0*	80Δ	8	5	0.0	5.0			100m%	300m	5	C	54-176W	FP52
6	N8290C		TTL	1	60M†	2.6*	40C	8	12	0.0	5.0			255m	5.0	0	†	54-176W	TO88
7	54196DM		TTL	1	70M†	2.0*	80Δ	8	10	0.0	5.0	5.0n	5.0n	240m†	400m*	5	C	74-176	TO116
8	74196DC		TTL	1	70M†	2.0*	80Δ	8	10	0.0	5.0	5.0n	5.0n	240m†	400m*	0	†	74-176	TO116
9	74196PC		TTL	1	70M†	2.0*	80Δ	8	10	0.0	5.0	5.0n	5.0n	240m†	400m*	0	†	74-176N	FP21h
10	MC54F190(A)		TTL	1	80M	2.0	0.8			0.0	5.0					5	C	74-190	DL16ao
11	MC54F190N(A)		TTL	1	80M	2.0	0.8			0.0	5.0					5	C	74-190	DL16ap
12	MC74F190(A)		TTL	1	80M	2.0	0.8			0.0	5.0					5	C	74-190	DL16ao
13	MC74F190N(A)		TTL	1	80M	2.0	0.8			0.0	5.0					5	C	74-190	DL16ap
14	93S10DC		TTL	1	100M†	2.0*	80Δ	9	20	0.0	5.0			635m		0	†	74-160N	DL16cd
15	93S10DM		TTL	1	100M†	2.0*	80Δ	9	20	0.0	5.0			635m		5	C	4	74-160N
16	93S10FM		TTL	1	100M†	2.0*	80Δ	9	20	0.0	5.0			635m		5	C	4	54-160W
17	93S10PC		TTL	1	100M†	2.0*	80Δ	9	20	0.0	5.0			635m		0	†	74-160N	DL16ce
18	93S16DC		TTL	1	100M†	2.0*	80Δ	9	20	0.0	5.0			635m		0	†	74-161N	DL16cd
19	93S16DM		TTL	1	100M†	2.0*	80Δ	9	20	0.0	5.0			635m		5	C	4	74-161N
20	93S16FM		TTL	1	100M†	2.0*	80Δ	9	20	0.0	5.0			635m		5	C	4	54-161W
21	93S16PC		TTL	1	100M†	2.0*	80Δ	9	20	0.0	5.0			635m		0	†	74-161N	DL16ce
22	N74S196F		TTL	1	100M†	2.6*	50AC	8	20	0.0	5.0			461m	1.0 †	0	†	74-176N	DL14aq
23	SN54S160J		TTL	1	100M†	2.0*	80Δ	9	9	0.0	5.0			635m%		5	C	1	74-160N
24	SN54S160W		TTL	1	100M†	2.0*	80Δ	9	9	0.0	5.0			635m%		5	C	1	54-160W
25	SN54S196J		TTL	1	100M†	2.0*	80Δ	8	10	0.0	5.0			550m	1.0 †	5	C	1	74-176N
26	SN54S196W		TTL	1	100M†	2.0*	80Δ	8	10	0.0	5.0			550m	1.0 †	5	C	1	54-176
27	SN74S160J		TTL	1	100M†	2.0*	80Δ	9	9	0.0	5.0			635m%		0	†	74-160N	DL16ca
28	SN74S160N		TTL	1	100M†	2.0*	80Δ	9	9	0.0	5.0			635m%		0	†	74-160N	DL16ce
29	SN74S196J		TTL	1	100M†	2.0*	80Δ	8	10	0.0	5.0			600m	1.0 †	0	†	74-176N	DL14af
30	SN74S196N		TTL	1	100M†	2.0*	80Δ	8	10	0.0	5.0			600m	1.0 †	0	†	74-176N	DL14r
31	54F160DM		TTL	1.3	120M†	2.0*	80Δ			0.0	5.0	7.5n	5.0n*	5.0n*		5	C	1	74-160N
32	54F160FM		TTL	1.3	120M†	2.0*	80Δ			0.0	5.0	7.5n	5.0n*	5.0n*		5	C	1	54-160W
33	54F160DM		TTL	1.3	120M†	2.0*	80Δ			0.0	5.0	7.5n	5.0n*	5.0n*		5	C	1	74-162N
34	54F162FM		TTL	1.3	120M†	2.0*	80Δ			0.0	5.0	7.5n	5.0n*	5.0n*		5	C	1	54-162W
35	74F160DC		TTL	1.3	120M†	2.0*	80Δ			0.0	5.0	7.5n	5.0n*	5.0n*		0	†	74-160N	DL16x
36	74F160PC		TTL	1.3	120M†	2.0*	80Δ			0.0	5.0	7.5n	5.0n*	5.0n*		0	†	74-160N	*
37	74F162DC		TTL	1.3	120M†	2.0*	80Δ			0.0	5.0	7.5n	5.0n*	5.0n*		0	†	74-162N	DL16x
38	74F162PC		TTL	1.3	120M†	2.0*	80Δ			0.0	5.0	7.5n	5.0n*	5.0n*		0	†	74-162N	*
39	DM7281J		TTL	1.3	45M†	2.8*	40CΔ	8		0.0	5.0			45nΔ		5	C	1	74-177N
40	DM7281W		TTL	1.3	45M†	2.8*	40CΔ	8		0.0	5.0			45nΔ		5	C	1	54-177W
41	DM8281J		TTL	1.3	45M†	2.8*	40CΔ	8		0.0	5.0			45nΔ		0	†	74-177N	DL14ax
42	DM8281N		TTL	1.3	45M†	2.8*	40CΔ	8		0.0	5.0			45nΔ		0	†	74-177N	DL14bt
43	DM8281W		TTL	1.3	45M†	2.8*	40CΔ	8		0.0	5.0			45nΔ		0	†	54-177W	FP97a
44	DM74177J		TTL	1.3	45M†	2.8*	40CΔ	8		0.0	5.0			45nΔ		0	†	74-177N	DL14ax
45	DM74177N		TTL	1.3	45M†	2.8*	40CΔ	8		0.0	5.0			45nΔ		0	†	74-177N	DL14bt
46	DM74177W		TTL	1.3	45M†	2.8*	40CΔ	8		0.0	5.0			45nΔ		0	†	54-177W	FP97a
47	SN74490J		TTL	1F	35m\$†	2.0*	80Δ	3	10	0.0	5.0			225m†	1.0 †	0	†	74-490N	DL16i
48	SN54L90J		TTL	1F	3.0M*	2.0*	70Δ	6	10	0.0	5.0			20m†	1.0 †	5	C	1	74-90N
49	SN54L90W		TTL	1F	3.0M*	2.0*	70Δ	6	10	0.0	5.0			340nΔ		5	C	1	54-90W
50	SN54L90J		TTL	1F	16M*	2.0*	70Δ	6	10	0.0	5.0			20m†	1.0 †	5	C	1	74-90N
51	SN54L90W		TTL	1F	16M*	2.0*	70Δ	6	10	0.0	5.0			45m†	1.0 †	5	C	1	54-90W
52	SN74L90J		TTL	1F	16M*	2.0*	80Δ	6	10	0.0	5.0			45m†	1.0 †	0	†	74-90N	DL14af
53	SN74L90N		TTL	1F	16M*	2.0*	80Δ	6	10	0.0	5.0			45m†	1.0 †	0	†	74-90N	DL14r
54	SN5490AJ		TTL	1F	16M*	2.0*	80Δ	6	10	0.0	5.0			145m†	1.0 †	5	C	1	74-90N
55	SN5490AW		TTL	1F	16M*	2.0*	80Δ	6	10	0.0	5.0			145m†	1.0 †	5	C	1	54-90W
56	SN7490AJ		TTL	1F	16M*	2.0*	80Δ	6	10	0.0	5.0			145m†	1.0 †	0	†	74-90N	MO004AA
57	SN7490AN		TTL	1F	16M*	2.0*	80Δ	6	10	0.0	5.0			145m†	1.0 †	0	†	74-90N	DL14r
58#	M53290P		TTL	1F	18M†	2.0*	80Δ	6	40	0.0	7.0			160m†	1.0 †	0	†	74-90N	DL14d
59	74LS90DC		TTL	1F	32M	2.0*	80Δ	6	5	0.0	5.0			75m%	300m	0	†	74-90N	TO116
60	74LS90PC		TTL	1F	32M	2.0*	80Δ	6	5	0.0	5.0			75m%	300m	0	†	74-90N	TO116
61	DM5490J		TTL	1F	32M†	2.0*	80Δ	6		0.0	5.0			225m%		5	C	1	74-90N
62	DM5490W		TTL	1F	32M†	2.0*	80Δ	6		0.0	5.0			225m%		5	C	1	54-90W
63	DM7490N		TTL	1F	32M†	2.0*	80Δ	6		0.0	5.0			225m%		0	†	74-90N	DL14bt
64	SN54LS290J		TTL	1F	32M\$*	2.0*	70Δ	6	10d	0.0	5.0			75m	300m	5	C	1	74-290N
65	SN54LS290W		TTL	1F	32M\$*	2.0*	70Δ	6	10d	0.0	5.0			75m	300m	5	C	1	54-290W
66	SN74LS290J		TTL	1F	32M\$*	2.0*	80Δ	6	20d	0.0	5.0			75m	400m	0	†	74-290N	MO004AA
67	SN74LS290N		TTL	1F	32M\$*	2.0*	80Δ	6	20d	0.0	5.0			75m	400m	0	†	74-290N	DL14r
68	SN54290J		TTL	1F	32M\$*	2.0*	80Δ	6	4	0.0	5.0			210m	400m	5	C	1	74-290N
69	SN54290W		TTL	1F	32M\$*	2.0*	80Δ	6	4	0.0	5.0			210m	400m	5	C	1	54-290W
70	SN74290J		TTL	1F	32M\$*	2.0*	80Δ	6	4	0.0	5.0								

11. COUNTERS

IN ORDER OF: (1) TECHNOLOGY (2) TYPE OF COUNTER
(3) OPERATING FREQ. (4) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE	MAX. OPER. FREQ. (Hz)	LOGIC LEVEL		FAN IN	FAN OUT	POWER SUPPLY NEG (V)	POWER SUPPLY POS (V)	PROPAGATION DELAY (S)	MAXIMUM RISE TIME (S)	MAXIMUM FALL TIME (S)	MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS		
						MIN. '1' (V)	MAX. '0' (V)												LOGIC OR BLOCK	OUTLINE	
1	N74LS168AN		TTL	1R	25M*	2.0*	80Δ	9	20	0.0	5.0	35nΔ			170m			1	74S168N	DL16bp	
2	N74LS568F		TTL	1R	25M*	2.0*	80Δ	12	20	0.0	5.0	35nΔ			215m			1	74LS568N	DL20j	
3	N74LS568N		TTL	1R	25M*	2.0*	80Δ	12	20	0.0	5.0	35nΔ			215m			1	74LS568N	DL20j	
4	S54LS168AF		TTL	1R	25M*	2.0*	70Δ	9		0.0	5.0	35nΔ			170m			1	74S168N	DL16aw	
5	S54LS168AW		TTL	1R	25M*	2.0*	70Δ	9		0.0	5.0	35nΔ			170m			1	54S168W	FP47g	
6	S54LS568F		TTL	1R	25M*	2.0*	70Δ	12		0.0	5.0	35nΔ			215m			1	74LS568N	DL20j	
7#	M74LS190P		TTL	1R	35M†	2.0*	80Δ	8	20	0.0	5.0	52nΔ	20n#		100m†	400m*		2	7	74-190N	DL16bm
8#	M74LS192P		TTL	1R	40M†	2.0*	80Δ	8	20	0.0	5.0	32nΔ	17n#		95m†	400m*		2	7	74-193N	DL16bm
9	N74S168F		TTL	1R	40M	2.0	0.8	9	10	0.0	5.0	15n	2.5n	2.5n		0.4		0	7	74S168	DL16bh
10	N74S169F		TTL	1R	40M	2.0	0.8	9	10	0.0	5.0	15n	2.5n	2.5n		0.4		0	7	74S169	DL16bh
11	S54S168F		TTL	1R	40M	2.0	0.8	9	10	0.0	5.0	15n	2.5n	2.5n		0.4		0	7	74S168	DL16bh
12	SN54S168J		TTL	1R	40M\$*	2.0*	80Δ	9	10	0.0	5.0	28nΔ			500m†	300m		5	7	74S168N	DL16v
13	SN54S168W		TTL	1R	40M\$*	2.0*	80Δ	9	10	0.0	5.0	28nΔ			500m†	300m		5	7	54S168W	MO004AG
14	SN74S168J		TTL	1R	40M\$*	2.0*	80Δ	9	10	0.0	5.0	28nΔ			500m†	300m		0	7	74S168N	DL16v
15	SN74S168N		TTL	1R	40M\$*	2.0*	80Δ	9	10	0.0	5.0	28nΔ			500m†	300m		0	7	74S168N	DL16v
16	DM75L52F		TTL	1V	11M\$†	2.4*	70Δ	7		0.0	5.0	220nΔ			38m†			5	7	75-52	FP88b
17	DM75L52J		TTL	1V	11M\$†	2.4*	70Δ	7		0.0	5.0	220nΔ			38m†			5	7	75-52	DL16ai
18	DM75L52N		TTL	1V	11M\$†	2.4*	70Δ	7		0.0	5.0	220nΔ			38m†			5	7	75-52	DL16bu
19	DM85L52F		TTL	1V	11M\$†	2.4*	70Δ	7		0.0	5.0	220nΔ			38m†			0	7	75-52	FP88b
20	DM85L52J		TTL	1V	11M\$†	2.4*	70Δ	7		0.0	5.0	220nΔ			38m†			0	7	75-52	DL16ai
21	DM85L52N		TTL	1V	11M\$†	2.4*	70Δ	7		0.0	5.0	220nΔ			38m†			0	7	75-52	DL16bu
22	DM7552J		TTL	1V	23M\$†	2.0*	80Δ	7		0.0	5.0	70nΔ			330m†			5	7	E01-78	DL16ai
23	DM7552W		TTL	1V	23M\$†	2.0*	80Δ	7		0.0	5.0	70nΔ			330m†			5	7	E01-78	FP88a
24	DM8552J		TTL	1V	23M\$†	2.0*	80Δ	7		0.0	5.0	70nΔ			330m†			0	7	75-52	DL16ai
25	DM8552N		TTL	1V	23M\$†	2.0*	80Δ	7		0.0	5.0	70nΔ			330m†			0	7	75-52	DL16bu
26	DM8552W		TTL	1V	23M\$†	2.0*	80Δ	7		0.0	5.0	70nΔ			330m†			0	7	75-52	FP88a
27#	M74LS196P		TTL	1V	60M†	2.0*	80Δ	8	20	0.0	5.0	37nΔ	12n#		60m†	400m*		2	7	E02-48b	DL14cf
28	SN54LS461JS		TTL	10	10M\$	2.0	0.8	8		0.0	5.0	60n						5	7	E10-01	DL24bj
29	SN74LS461JS		TTL	10	12M\$	2.0	0.8	8		0.0	5.0	50n						0	7	E10-01	DL24bj
30	SN74LS461NS		TTL	10	12M\$	2.0	0.8	8		0.0	5.0	50n						0	7	E10-01	DL24bk
31	SN54LS491JS		TTL	11	10M\$	2.0	0.8	5		0.0	5.0	35n						5	7	E11-01	DL24bj
32	SN74LS491JS		TTL	11	12M\$	2.0	0.8	5		0.0	5.0	30n						0	7	E11-01	DL24bj
33	SN74LS491NS		TTL	11	12M\$	2.0	0.8	5		0.0	5.0	30n						0	7	E11-01	DL24bk
34	SN54ALS190J		TTL	11	25M	2.0	0.8	8		0.0	5.0	45n						5	7	74-190	DL16ao
35	SN54ALS190N		TTL	11	25M	2.0	0.8	8		0.0	5.0	45n						5	7	74-190	DL16dp
36	SN54ALS191J		TTL	11	25M	2.0	0.8	8		0.0	5.0	45n						5	7	74-191	DL16ao
37	SN54ALS191N		TTL	11	25M	2.0	0.8	8		0.0	5.0	45n						5	7	74-191	DL16dp
38	SN54ALS192J		TTL	11	25M	2.0	0.8	8		0.0	5.0	18n						5	7	74-192	DL16ao
39	SN54ALS192N		TTL	11	25M	2.0	0.8	8		0.0	5.0	18n						5	7	74-192	DL16dp
40	SN74ALS190J		TTL	11	25M	2.0	0.8	8		0.0	5.0	45n						0	7	74-190	DL16ao
41	SN74ALS190N		TTL	11	25M	2.0	0.8	8		0.0	5.0	45n						0	7	74-190	DL16dp
42	SN74ALS191J		TTL	11	25M	2.0	0.8	8		0.0	5.0	45n						0	7	74-191	DL16ao
43	SN74ALS191N		TTL	11	25M	2.0	0.8	8		0.0	5.0	45n						0	7	74-191	DL16dp
44	SN74ALS192J		TTL	11	25M	2.0	0.8	8		0.0	5.0	18n						0	7	74-192	DL16ao
45	SN74ALS192N		TTL	11	25M	2.0	0.8	8		0.0	5.0	18n						0	7	74-192	DL16dp
46	SN54ALS160J		TTL	11	30M	2.0	0.8	9		0.0	5.0	25n						5	7	74-160	DL16ao
47	SN54ALS160N		TTL	11	30M	2.0	0.8	9		0.0	5.0	25n						5	7	74-160	DL16dp
48	SN54ALS161J		TTL	11	30M	2.0	0.8	9		0.0	5.0	25n						5	7	74-161	DL16ao
49	SN54ALS161N		TTL	11	30M	2.0	0.8	9		0.0	5.0	25n						5	7	74-161	DL16dp
50	SN54ALS162J		TTL	11	30M	2.0	0.8	9		0.0	5.0	25n						5	7	74-162	DL16ao
51	SN54ALS162N		TTL	11	30M	2.0	0.8	9		0.0	5.0	25n						5	7	74-162	DL16dp
52	SN54ALS163J		TTL	11	30M	2.0	0.8	9		0.0	5.0	25n						5	7	74-163	DL16ao
53	SN54ALS163N		TTL	11	30M	2.0	0.8	9		0.0	5.0	25n						5	7	74-163	DL16dp
54	SN74ALS160J		TTL	11	30M	2.0	0.8	9		0.0	5.0	23n						0	7	74-160	DL16ao
55	SN74ALS160N		TTL	11	30M	2.0	0.8	9		0.0	5.0	23n						0	7	74-160	DL16dp
56	SN74ALS161J		TTL	11	30M	2.0	0.8	9		0.0	5.0	23n						0	7	74-161	DL16ao
57	SN74ALS161N		TTL	11	30M	2.0	0.8	9		0.0	5.0	23n						0	7	74-161	DL16dp
58	SN74ALS162J		TTL	11	30M	2.0	0.8	9		0.0	5.0	23n						0	7	74-162	DL16ao
59	SN74ALS162N		TTL	11	30M	2.0	0.8	9		0.0	5.0	23n						0	7	74-162	DL16dp
60	SN74ALS163J		TTL	11	30M	2.0	0.8	9		0.0	5.0	23n						0	7	74-163	DL16ao
61	SN74ALS163N		TTL	11	30M	2.0	0.8	9		0.0	5.0	23n						0	7	74-163	DL16dp
62	54LS161DM		TTL	2		2.0*	70Δ	10	2	0.0	5.0	18n			160m%	300m		5	7	74-161N	DL16x
63	54LS161FM		TTL	2		2.0*	70Δ	10	2	0.0	5.0	18n			160m%	300m		5	7	54-161	FP47b
64	54LS163DM		TTL	2		2.0*	70Δ	10	2	0.0	5.0	18n			160m%	300m		5	7	74-163N	DL16x
65	54LS163FM		TTL	2		2.0*	70Δ	10	2	0.0	5.0	18n			160m%	300m		5	7	54-163W	FP47b
66	74LS161DC		TTL	2		2.0*	80Δ	10	5	0.0	5.0	18n			160m%	300m		0	7	74-161	DL16x</

11. COUNTERS

IN ORDER OF (1) TECHNOLOGY (2) TYPE OF COUNTER
(3) OPERATING FREQ. (4) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	1 TECH	2 TYPE	3 MAX. OPER. FREQ. (Hz)	LOGIC LEVEL		FAN		POWER SUPPLY SPAN NEG (V)	POWER SUPPLY POS (V)	PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS	
						MIN. '1' (V)	MAX. '0' (V)	IN	OUT				RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE
1	JANM38510/01302BDB		TTL	2	10M\$	2.0*	.80Δ	4	10	0.0	5.5	112nΔ			268m		5 C	1	54LS93	FP116
2	JANM38510/01302CAA		TTL	2	10M\$	2.0*	.80Δ	4	10	0.0	5.5	112nΔ			268m		5 C	1	54LS93	FP115
3	JANM38510/01302CAB		TTL	2	10M\$	2.0*	.80Δ	4	10	0.0	5.5	112nΔ			268m		5 C	1	54LS93	FP115
4	JANM38510/01302CCA		TTL	2	10M\$	2.0*	.80Δ	4	10	0.0	5.5	112nΔ			268m		5 C	1	74LS93N	DL14bo
5	JANM38510/01302CCB		TTL	2	10M\$	2.0*	.80Δ	4	10	0.0	5.5	112nΔ			268m		5 C	1	74LS93N	DL14bo
6	JANM38510/01302CDA		TTL	2	10M\$	2.0*	.80Δ	4	10	0.0	5.5	112nΔ			268m		5 C	1	54LS93	FP116
7	JANM38510/01302CDB		TTL	2	10M\$	2.0*	.80Δ	4	10	0.0	5.5	112nΔ			268m		5 C	1	54LS93	FP116
8	N7493F		TTL	2	10M\$	2.0*	.80Δ	4	10	0.0	5.0	135nΔ			265m	1.0 †	5 C	1	74LS93N	DL14bh
9	N7493N		TTL	2	10M\$	2.0*	.80Δ	4	10	0.0	5.0	135nΔ			265m		5 C	1	74LS93N	DL14br
10	N8281F		TTL	2	10M\$	2.6*	.40CΔ	8	10	0.0	5.0	75nΔ			225m		0 7	1	74-177N	DL14bh
11	N8281N		TTL	2	10M\$	2.6*	.40CΔ	8	10	0.0	5.0	75nΔ			225m		0 7	1	74-177N	DL14br
12	N8293Q		TTL	2	10M\$	2.6*	.40C	8	4	0.0	5.0		5.0n	5.0n	69m		0 7	1	E02-48a	TO88
13	S5493F		TTL	2	10M\$	2.0*	.80Δ	4	10	0.0	5.0	135nΔ			230m	1.0 †	5 C	1	74LS93N	DL14bh
14	S5493W		TTL	2	10M\$	2.0*	.80Δ	4	10	0.0	5.0	135nΔ			230m	1.0 †	5 C	1	54LS93	FP39e
15	S8281F		TTL	2	10M\$	2.6*	.40CΔ	8	10	0.0	5.0	25nΔ			225m		5 C	1	74-177N	DL14bh
16	S8281W		TTL	2	10M\$	2.6*	.40CΔ	8	10	0.0	5.0	75nΔ			225m		5 C	1	54-177W	FP39e
17	DM54L192J#mil		TTL	2	12M\$	2.0	0.7	10	20	0.0	8.0	60n			40m	0.5	5 C	4	E02-198	DL16au
18	DM54L193J		TTL	2	12M\$	2.0*	.70Δ	10	20	0.0	5.0	150nΔ			40m		5 C	1	74-193N	DL16ai
19	DM54L193J#mil		TTL	2	12M\$	2.0	0.7			0.0	8.0	60n			40m	0.5	5 C	4	E02-198	DL16au
20	DM54L193W#mil		TTL	2	12M\$	2.0	0.7			0.0	8.0	60n			40m	0.4	5 C	1	E02-158	FP98b
21	DM74L193N		TTL	2	12M\$	2.0*	.70Δ	10	20	0.0	5.0	150nΔ			40m		0 7	1	74-193N	DL16bu
22	DM75L60J#mil		TTL	2	12M\$	2.0	0.7			0.0	5.0	60n			40m	0.4	5 C	4	E02-198	DL16au
23	DM75L60W#mil		TTL	2	12M\$	2.0	0.7			0.0	5.0	60n			40m	0.4	5 C	4	E02-198	FP98b
24	DM75L63J#mil		TTL	2	12M\$	2.0	0.7			0.0	5.0	60n			40m	0.4	5 C	4	E02-198	DL16au
25	DM75L63W#mil		TTL	2	12M\$	2.0	0.7			0.0	5.0	60n			40m	0.4	5 C	4	E02-198	FP98b
26	DM85L60N		TTL	2	12M\$	2.0	0.7			0.0	5.0	60n			40m	0.3	0 7	4	E02-198	DL16a
27	DM85L63N		TTL	2	12M\$	2.0	0.7			0.0	5.0	60n			40m	0.3	0 7	4	E02-198	DL16a
28	93L16DC		TTL	2	13M\$	2.0*	.70Δ	9		0.0	5.0	95nΔ			75m		0 7	1	74-161N	DL24i
29	93L16DM		TTL	2	13M\$	2.0*	.70Δ	9		0.0	5.0	95nΔ			75m		5 C	1	74-161N	DL24i
30	93L16FM		TTL	2	13M\$	2.0*	.70Δ	9		0.0	5.0	95nΔ			75m		5 C	1	54-161W	FP79b
31	93L16PC		TTL	2	13M\$	2.0*	.70Δ	9		0.0	5.0	95nΔ			75m		0 7	1	74-161N	DL16ce
32	93L16PC#		TTL	2	13M\$	2.0*	.80Δ	9		0.0	5.0	95nΔ			75m		0 7	1	74-161N	DL14ce
33	93S16DC#		TTL	2	13M\$	2.0*	.80Δ	9		0.0	5.0	95nΔ			75m		0 7	1	74-161N	DL16cj
34	93S16DM#		TTL	2	13M\$	2.0*	.80Δ	9		0.0	5.0	95nΔ			75m		5 C	1	74-161N	DL16cj
35	93S16FM#		TTL	2	13M\$	2.0*	.80Δ	9		0.0	5.0	95nΔ			75m		5 C	1	54-161W	FP93CN
36	DM76L76F		TTL	2	13M\$	2.0*	.70Δ	10		0.0	5.0	140nΔ			32m		5 C	1	E01-79	FP88b
37	DM76L76J		TTL	2	13M\$	2.0*	.70Δ	10		0.0	5.0	140nΔ			32m		5 C	1	E01-79	DL16ai
38	DM76L76N		TTL	2	13M\$	2.0*	.70Δ	10		0.0	5.0	140nΔ			32m		5 C	1	E01-79	DL16bu
39	DM76L76W#mil		TTL	2	13M\$	2.0	0.7			0.0	5.0	75n			33m	0.4	5 C	4	E01-79	FP88b
40	DM86L76F		TTL	2	13M\$	2.0*	.70Δ	10		0.0	5.0	140nΔ			32m		0 7	1	E01-79	FP88b
41	DM86L76J		TTL	2	13M\$	2.0*	.70Δ	10		0.0	5.0	140nΔ			32m		0 7	1	E01-79	DL16ai
42	DM86L76N		TTL	2	13M\$	2.0*	.70Δ	10		0.0	5.0	140nΔ			32m		0 7	1	E01-79	DL16bu
43	DM54L93J		TTL	2	15M\$	2.0*	.70Δ	4	20	0.0	5.0	400nΔ			18m		5 C	1	74L93N	DL14ax
44	DM74L93N		TTL	2	15M\$	2.0*	.70Δ	4	20	0.0	5.0	400nΔ			18m		0 7	1	74L93N	DL14bt
45	DM76L93F		TTL	2	15M\$	2.0*	.70Δ	4	20	0.0	5.0	400nΔ			18m		5 C	1	54L93T	FP87a
46	DM76L93J		TTL	2	15M\$	2.0*	.70Δ	4	20	0.0	5.0	400nΔ			18m		5 C	1	74L93N	DL14ax
47	DM76L93N		TTL	2	15M\$	2.0*	.70Δ	4	20	0.0	5.0	400nΔ			18m		5 C	1	74L93N	DL14bt
48	DM86L93F		TTL	2	15M\$	2.0*	.70Δ	4	20	0.0	5.0	400nΔ			18m		0 7	1	54L93T	FP87a
49	DM86L93J		TTL	2	15M\$	2.0*	.70Δ	4	20	0.0	5.0	400nΔ			18m		0 7	1	74L93N	DL14ax
50	DM86L93N		TTL	2	15M\$	2.0*	.70Δ	4	20	0.0	5.0	400nΔ			18m		0 7	1	74L93N	DL14bt
51#	HD74LS293		TTL	2	16M\$	2.0*	.80Δ			0.0	5.0	38n	15n#		400m	300m	2 7	4		DL14cz
52#	HD74LS293P		TTL	2	16M\$	2.0*	.80Δ			0.0	5.0	38n	15n#		400m	300m	2 7	4		DL14cz
53	N74LS93F		TTL	2	16M\$	2.0*	.80Δ	4	20	0.0	5.0	70nΔ			75m		0 7	1	74LS93N	DL14bh
54	N74LS93N		TTL	2	16M\$	2.0*	.80Δ	4	20	0.0	5.0	70nΔ			75m		0 7	1	74LS93N	DL14br
55	N74LS293D		TTL	2	16M\$	2.0*	0.8Δ	4	20	0.0	5.0	70nΔ			75m		0 7	1	74-293N	DL14bh
56	N74LS293N		TTL	2	16M\$	2.0*	.80Δ	4	20	0.0	5.0	70nΔ			75m		0 7	1	74-293N	DL14br
57	S54LS93F		TTL	2	16M\$	2.0*	.70Δ	4		0.0	5.0	70nΔ			75m		5 C	1	74LS93N	DL14bh
58	S54LS93W		TTL	2	16M\$	2.0*	.70Δ	4		0.0	5.0	70nΔ			75m		5 C	1	54LS93	FP39e
59	S54LS293F		TTL	2	16M\$	2.0*	.70Δ	4		0.0	5.0	70nΔ			75m		5 C	1	74-293N	DL14bh
60	S54LS293W		TTL	2	16M\$	2.0*	.70Δ	4		0.0	5.0	70nΔ			75m		5 C	1	54-293W	FP39e
61#	ZN7493E		TTL	2	18M\$	2.0*	.80Δ	2		0.0	5.0	135nΔ			160m%		0 7	1	74LS93N	DL14m
62#	ZN7493F		TTL	2	18M\$	2.0*	.80Δ	2		0.0	5.0	135nΔ			160m%		0 7	1	54LS93	TO86
63	54LS393DM		TTL	2	20M\$	2.0*	.70Δ	2	22d	0.0	5.0	35nΔ			125m%	400m*	5 C	2	74-393N	TO116
64	54LS393FM		TTL	2	20M\$	2.0*	.70Δ	2	22d	0.0	5.0	35nΔ			125m%	400m*	5 C	2	54-393W	FP21h
65	74LS393DC		TTL	2	20M\$	2.0*	.80Δ	2	22d	0.0	5.0	35nΔ			130m%	300m*	0 7	2	74-393N	TO116
66	74LS393PC		TTL	2	20M\$	2.0*	.80Δ	2	22d	0.0	5.0	35nΔ			130m%	300m*	0 7	2	74-393N	DL14ce
67#	HD74LS191		TTL	2	20M\$	2.0*	.80Δ			0.0	5.0	33n	35n#		400m	300m	2 7	4		DL14cz
68#	HD74LS191P		TTL	2	20M\$	2.0*	.80Δ			0.0	5.0	33n	35n#		400m	300m	2 7	4		DL14cz
69	JANM38510/01304BEA		TTL	2	20M\$	2.0*	.80Δ	4	20	0.0	5.5	58nΔ			500m		5 C	1	74-163N	DL16br
70	JANM38510/01304BEB		TTL	2	20M\$	2.0*	.80Δ	4	20	0.0	5.5	58nΔ			500m		5 C	1	74-163N	DL16br
71	JANM38510/01304BFA		TTL	2	20M\$	2.0*	.80Δ	4	20	0.0	5.5	58nΔ			500m		5 C	1	54-163W	FP117
72	JANM38510/01304BFB		TTL	2	20M\$	2.0*	.80Δ	4	20	0.0	5.5	58nΔ			500m		5 C	1	54-163W	FP117
73	JANM38510/01304CEA		TTL	2	20M\$	2.0*	.80Δ	4	20	0.0	5.5	58nΔ			500m		5 C	1	74-163N	DL16br
74	JANM38510/01304CEB		TTL	2	20M\$	2.0*	.80Δ	4	20	0.0	5.5	58nΔ			500m		5 C	1	74-163N	DL16br
75	JANM38510/01304CFA		TTL	2	20M\$	2.0*	.80Δ	4	20	0.0	5.5	58nΔ			500m		5 C	1	54-163W	

11. COUNTERS

IN ORDER OF (1) TECHNOLOGY (2) TYPE OF COUNTER
(3) OPERATING FREQ. (4) TYPE NO.

LINE NO.	TYPE NO.	DATA SHT.	TECH	TYPE	MAX. OPER. FREQ. (Hz)	LOGIC LEVEL		FAN		POWER SUPPLY SPAN		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS	
						MIN. '1' (V)	MAX. '0' (V)	IN	OUT MAX	NEG (V)	POS (V)		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE
1	JANM38510/01309BEA		ITTL	2	20M\$	2.0*	.80Δ	8	10	0.0	5.5	71nΔ			490m	5	C	1	74-193N	DL16br
2	JANM38510/01309BEB		ITTL	2	20M\$	2.0*	.80Δ	8	10	0.0	5.5	71nΔ			490m	5	C	1	74-193N	DL16br
3	JANM38510/01309BFA		ITTL	2	20M\$	2.0*	.80Δ	8	10	0.0	5.5	71nΔ			490m	5	C	1	54-193W	FP117
4	JANM38510/01309BFB		ITTL	2	20M\$	2.0*	.80Δ	8	10	0.0	5.5	71nΔ			490m	5	C	1	54-193W	FP117
5	JANM38510/01309CEA		ITTL	2	20M\$	2.0*	.80Δ	8	10	0.0	5.5	71nΔ			490m	5	C	1	74-193N	DL16br
6	JANM38510/01309CEB		ITTL	2	20M\$	2.0*	.80Δ	8	10	0.0	5.5	71nΔ			490m	5	C	1	74-193N	DL16br
7	JANM38510/01309CFA		ITTL	2	20M\$	2.0*	.80Δ	8	10	0.0	5.5	71nΔ			490m	5	C	1	54-193W	FP117
8	JANM38510/01309CFB		ITTL	2	20M\$	2.0*	.80Δ	8	10	0.0	5.5	71nΔ			490m	5	C	1	54-193W	FP117
9#	MB74LS191		TTL	2	20M\$	2.0*	.80Δ	8	10	0.0	5.5	71nΔ			490m	5	C	1	54-193W	FP117
10#	MB74LS191M		TTL	2	20M*	2.0*	.80Δ	8	20	0.0	5.0	50nΔ			175m	2	7	1	74-191N	DL16as
11	N8291F		TTL	2	20M*	2.6*	.40CΔ	8	10	0.0	5.0	90nΔ			242m	0	7	1	74-177N	DL14bh
12	N8291N		TTL	2	20M*	2.6*	.40CΔ	8	10	0.0	5.0	90nΔ			242m	0	7	1	74-177N	DL14br
13	S8291F		TTL	2	20M*	2.6*	.40CΔ	8	6	0.0	5.0	90nΔ			242m	5	C	1	74-177N	DL14bh
14	S8291W		TTL	2	20M*	2.6*	.40CΔ	8	6	0.0	5.0	90nΔ			242m	5	C	1		FP39e
15	SN54LS393J		TTL	2	20M*	2.0*	.70Δ	2	11d	0.0	5.0	60nΔ			130m	1.0 †	5	C	2	74-393N
16	SN54LS393W		TTL	2	20M*	2.0*	.70Δ	2	11d	0.0	5.0	60nΔ			130m	1.0 †	5	C	2	54-393W
17	SN54LS590J#mil		TTL	2	20M	2.0	0.7			0	7.0	25n				0.3	5	C	8	E02-201
18	SN54LS590W#mil		TTL	2	20M	2.0	0.7			0	7.0	25n				0.3	5	C	8	E02-201
19	SN54LS591J#mil		TTL	2	20M	2.0	0.7			0	7.0	25n				0.3	5	C	8	E02-201
20	SN54LS591W#mil		TTL	2	20M	2.0	0.7			0	7.0	25n				0.3	5	C	8	E02-201
21	SN54LS592J#mil		TTL	2	20M	2.0	0.7			0	7.0	15n				0.3	5	C	8	E02-202
22	SN54LS592W#mil		TTL	2	20M	2.0	0.7			0	7.0	15n				0.3	5	C	8	E02-202
23	SN54LS593J#mil		TTL	2	20M	2.0	0.7			0	7.0	15n				0.3	5	C	8	E02-203
24	SN74LS393J		TTL	2	20M*	2.0*	.80Δ	2	22d	0.0	5.0	60nΔ			130m	1.0 †	0	7	2	74-393N
25	SN74LS393N		TTL	2	20M*	2.0*	.80Δ	2	22d	0.0	5.0	60nΔ			130m	1.0 †	0	7	2	74-393N
26	SN74LS590J		TTL	2	20M	2.0	0.8			0	7.0	25n				0.4	0	7	8	E02-201
27	SN74LS590N		TTL	2	20M	2.0	0.8			0	7.0	25n				0.4	0	7	8	E02-201
28	SN74LS591J		TTL	2	20M	2.0	0.7			0	7.0	25n				0.4	0	7	8	E02-201
29	SN74LS591N		TTL	2	20M	2.0	0.7			0	7.0	25n				0.4	0	7	8	E02-201
30	SN74LS592J		TTL	2	20M	2.0	0.7			0	7.0	15n				0.4	0	7		E02-202
31	SN74LS592N		TTL	2	20M	2.0	0.7			0	7.0	15n				0.4	0	7		E02-202
32	SN74LS593J		TTL	2	20M	2.0	0.7			0	7.0	15n				0.4	0	7		E02-203
33	SN74LS593N		TTL	2	20M	2.0	0.7			0	7.0	15n				0.4	0	7		E02-203
34	JANM38510/31504BEB		ITTL	2	22M	2.0*	.70Δ	9	10d	0.0	5.0	56nΔ			176m		5	C	1	74-161N
35	JANM38510/31504BFB		ITTL	2	22M	2.0*	.70Δ	9	10d	0.0	5.0	56nΔ			176m		5	C	1	54-161W
36	JANM38510/31504CEB		ITTL	2	22M	2.0*	.70Δ	9	10d	0.0	5.0	56nΔ			176m		5	C	1	74-161N
37	JANM38510/31504CFB		ITTL	2	22M	2.0*	.70Δ	9	10d	0.0	5.0	56nΔ			176m		5	C	1	54-161W
38	JANM38510/31512BEB		ITTL	2	22M	2.0*	.70Δ	9	10d	0.0	5.0	56nΔ			176m		5	C	1	74-163N
39	JANM38510/31512CEB		ITTL	2	22M	2.0*	.70Δ	9	10d	0.0	5.0	56nΔ			176m		5	C	1	74-163N
40	54191DM		TTL	2	25M†	2.0*	.80Δ	8	10	0.0	5.0	50nΔ	10n	10n	325m†	400m*	5	C	1	74-191N
41	54191FM		TTL	2	25M†	2.0*	.80Δ	8	10	0.0	5.0	50nΔ	10n	10n	325m†	400m*	5	C	1	54-191W
42	74161PC		TTL	2	25M*	2.0*	.80Δ	9	10	0.0	5.0	15n				0	7	1		FP103
43	74163DC		TTL	2	25M*	2.0*	.80Δ	9	10	0.0	5.0	15n				0	7	1		
44	74163PC		TTL	2	25M*	2.0*	.80Δ	9	10	0.0	5.0	15n				0	7	1		
45	74191DC		TTL	2	25M†	2.0*	.80Δ	8	10	0.0	5.0	50nΔ	10n	10n	325m†	400m*	0	7	1	74-191N
46	74191PC		TTL	2	25M†	2.0*	.80Δ	8	10	0.0	5.0	50nΔ	10n	10n	325m†	400m*	0	7	1	74-191N
47	DM54LS190J#mil		TTL	2	25M	2.0	0.8			0	7.0	20n			100m	0.4	5	C	4	E02-187
48	DM54LS190W#mil		TTL	2	25M	2.0	0.8			0	7.0	20n			100m	0.4	5	C	4	E02-187
49	DM54LS191J#mil		TTL	2	25M	2.0	0.8			0	7.0	20n			100m	0.4	5	C	4	E02-187
50	DM54LS191W#mil		TTL	2	25M	2.0	0.8			0	7.0	20n			100m	0.4	5	C	4	E02-187
51	DM74LS190N		TTL	2	25M	2.0	0.8			0	7.0	20n			100m	0.4	0	7	4	E02-187
52	DM74LS191N		TTL	2	25M	2.0	0.8			0	7.0	20n			100m	0.4	0	7	4	E02-187
53	DM54191J#mil		TTL	2	25M	2.0	0.8			0	7.0	20n			325m	0.4	5	C	4	E02-187
54	DM54191W#mil		TTL	2	25M	2.0	0.8			0	7.0	20n			325m	0.4	5	C	4	E02-187
55	DM54193J#mil		TTL	2	25M	2.0	0.8			0	7.0	26n			325m	0.4	5	C	4	E02-198
56	DM54193W#mil		TTL	2	25M	2.0	0.8			0	7.0	26n			325m	0.4	5	C	4	E02-198
57	DM74191J		TTL	2	25M\$†	2.0*	.80Δ	8		0.0	5.0	54nΔ			525m%		0	7	1	74-191N
58	DM74191N		TTL	2	25M\$†	2.0*	.80Δ	8		0.0	5.0	54nΔ			525m%		0	7	1	74-191N
59	DM74191W		TTL	2	25M\$†	2.0*	.80Δ	8		0.0	5.0	54nΔ			525m%		0	7	1	54-191W
60#	HD74LS161		TTL	2	25M	2.0*	.80Δ	9		0.0	5.0	15n			400m	300m	2	7	4	E03-80
61#	HD74LS161P		TTL	2	25M	2.0*	.80Δ	9		0.0	5.0	15n			400m	300m	2	7	4	E03-80
62#	HD74LS163		TTL	2	25M	2.0*	.80Δ	9		0.0	5.0	15n			460m	300m	2	7	4	E03-80
63#	HD74LS163P		TTL	2	25M	2.0*	.80Δ	9		0.0	5.0	15n			400m	300m	2	7	4	E03-80
64#	HD74LS193		TTL	2	25M	2.0*	.80Δ			0.0	5.0	22n	30n#		400m	300m	2	7	4	E02-198
65#	HD74LS193P		TTL	2	25M	2.0*	.80Δ			0.0	5.0	22n	30n#		400m	300m	2	7	4	E02-198
66#	HD74LS393		TTL	2	25M	2.0*	.80Δ			0.0	5.0	40n	20n#		400m	300m	2	7	2	DL14cz
67#	HD74LS393P		TTL	2	25M	2.0*	.80Δ			0.0	5.0	40n	20n#		400m	300m	2	7	2	DL14cz
68#	HD74LS669		TTL	2	25M	2.0*	.80Δ			0.0	5.0	36n	25n#		400m	300m	2	7	4	E02-199
69#	HD74LS669P		TTL	2	25M	2.0*	.80Δ			0.0	5.0	36n	25n#		400m	300m	2	7	4	E02-199
70#	M74LS161AP		TTL	2	25MT*	2.0*	.80Δ	9	22d	0.0	5.0	35nΔ			176m	400m*	2	7	1	74-161N
71#	M74LS163AP		TTL	2	25MT*	2.0*	.80Δ	9	22d	0.0	5.0	35nΔ			176m	400m*	2	7	1	74-163N
72#	M5336P		TTL	2	25M\$*	2.0*	.80Δ	9	10	0.0	5.0	38nΔ			305m†	400m	0	7	1	74-161N
73#	M5336P		TTL	2	25M\$*	2.0*	.80Δ	9	10	0.0	5.0	38nΔ			305m†	400m	0	7	1	74-163N
74#	M5339P		TTL	2	25M\$*	2.0*	.80Δ	8		0.0	5.0	50nΔ	10n	10n	325m†		0	7	1	74-190N
75#	MB74LS163A		TTL	2	25M*	2.0*	.80Δ	9	20	0.0	5.0	35nΔ			160m		2	7	1	74-163N
76#	MB74LS163AM		TTL	2	25M*	2.0*	.80Δ	9	20	0.0	5.0	35nΔ			160m		2	7	1	74-163N
77#	N74LS393D		TTL	2	25M	2.0*	0.8Δ	4	20	0.0	5.0	60nΔ			130m		0	7	2	74-393N
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11. COUNTERS

IN ORDER OF: (1) TECHNOLOGY (2) TYPE OF COUNTER
(3) OPERATING FREQ. (4) TYPE NO.

LINE No.	TYPE NO.	DATA SH.	TECH	TYPE	MAX. OPER. FREQ. (Hz)	LOGIC LEVEL		FAN		POWER SUPPLY SPAN		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE (°C)	CKTS PER MOD	DRAWINGS		
						MIN. '1' (V)	MAX. '0' (V)	IN	OUT MAX	NEG (V)	POS (V)		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE	
1	N74191W		TTL	2	25M*	2.0*	.80Δ	8	20	0.0	5.0	52nΔ			525m	1.0 †	0	7	1	54-191W	FP47g
2	S54L S933F		TTL	2	25M	2.0*	.70Δ	4	4	0.0	5.0	60nΔ			130m		5	7	2	74-933N	DL14bh
3	S54L S933W		TTL	2	25M	2.0*	.70Δ	4	4	0.0	5.0	60nΔ			130m		5	7	2	54-933W	FP39e
4	S54181F		TTL	2	25M*	2.0*	.80Δ	10	20	0.0	5.0	35nΔ			455m	1.0 †	5	7	1	74-161N	DL16aw
5	S54181W		TTL	2	25M*	2.0*	.80Δ	10	20	0.0	5.0	35nΔ			455m	1.0 †	5	7	1	54-161W	FP47g
6	S54182E		TTL	2	25M*	2.0*	.80Δ	9	20	0.0	5.0	35nΔ			325m†		5	7	1	54-162N	DL16i
7	S54182R		TTL	2	25M*	2.0*	.80Δ	9	20	0.0	5.0	35nΔ			325m†		5	7	1		FP79a
8	S54183F		TTL	2	25M*	2.0*	.80Δ	10	20	0.0	5.0	35nΔ			455m	1.0 †	5	7	1		DL16aw
9	S54183W		TTL	2	25M*	2.0*	.80Δ	10	20	0.0	5.0	35nΔ			455m	1.0 †	5	7	1		FP47g
10	S54193E		TTL	2	25M	2.0*	.80Δ	8	10	0.0	5.0	26n					5	7	1	54-193N	DL16i
11	S54193R		TTL	2	25M	2.0*	.80Δ	8	10	0.0	5.0	26n					5	7	1	54-193W	FP79a
12	SN54ALS193J		TTL	2	25M	2.0	0.8	8	8	0.0	5.0	18n					5	7	1	74-193	DL16ap
13	SN54ALS193N		TTL	2	25M	2.0	0.8	8	8	0.0	5.0	18n					5	7	1	74-193	DL16cp
14	SN54LS161J		TTL	2	25M*	2.0*	.70Δ	9	10	0.0	5.0	38nΔ			93m†	300m	5	7	1	74-161N	DL16v
15	SN54LS161W		TTL	2	25M*	2.0*	.70Δ	9	10	0.0	5.0	38nΔ			93m†	300m	5	7	1	54-161W	MO004AG
16	SN54LS163J		TTL	2	25M*	2.0*	.70Δ	9	10	0.0	5.0	38nΔ			93m†	300m	5	7	1	74-163N	DL16v
17	SN54LS163W		TTL	2	25M*	2.0*	.70Δ	9	10	0.0	5.0	38nΔ			93m†	300m	5	7	1	54-163W	MO004AG
18	SN54LS169J		TTL	2	25M*	2.0*	.70Δ	9	10d	0.0	5.0	30n			170m		5	7	1	74S169N	DL16am
19	SN54LS191J		TTL	2	25M*	2.0*	.70Δ	8	10d	0.0	5.0	50nΔ			175m		5	7	1	74-191N	DL16v
20	SN54LS191W		TTL	2	25M*	2.0*	.70Δ	8	10d	0.0	5.0	50nΔ			175m		5	7	1	54-191W	MO004AG
21	SN54LS569J		TTL	2	25M*	2.0*	.70Δ	12	10d	0.0	5.0						5	7	1	74LS569N	DL20g
22	SN54LS569J		TTL	2	25M	2.0*	.70Δ	9	11d	0.0	5.0	60n			170m%		5	7	1		DL16v
23	SN54LS569W		TTL	2	25M	2.0*	.70Δ	9	11d	0.0	5.0	60n			170m%		5	7	1	54S169w	MO004AG
24	SN74ALS193J		TTL	2	25M	2.0	0.8	8	8	0.0	5.0	18n					0	7	1	74-193	DL16ap
25	SN74ALS193N		TTL	2	25M	2.0	0.8	8	8	0.0	5.0	18n					0	7	1	74-193	DL16cp
26	SN74LS161J		TTL	2	25M*	2.0*	.80Δ	9	20	0.0	5.0	38nΔ			93m†	400m	0	7	1	74-161N	DL16v
27	SN74LS161N		TTL	2	25M*	2.0*	.80Δ	9	20	0.0	5.0	38nΔ			93m†	400m	0	7	1	74-161N	DL16i
28	SN74LS163J		TTL	2	25M*	2.0*	.80Δ	9	20	0.0	5.0	38nΔ			93m†	400m	0	7	1	74-163N	DL16v
29	SN74LS163N		TTL	2	25M*	2.0*	.80Δ	9	20	0.0	5.0	38nΔ			93m†	400m	0	7	1	74-163N	DL16i
30	SN74LS169J		TTL	2	25M*	2.0*	.80Δ	9	20d	0.0	5.0	30n			170m		0	7	1	74S169N	DL16am
31	SN74LS169N		TTL	2	25M*	2.0*	.80Δ	9	20d	0.0	5.0	30n			170m		0	7	1	74S169N	DL16bo
32	SN74LS191J		TTL	2	25M*	2.0*	.80Δ	8	22d	0.0	5.0	50nΔ			175m		0	7	1	74-191N	DL16v
33	SN74LS191N		TTL	2	25M*	2.0*	.80Δ	8	22d	0.0	5.0	50nΔ			175m		0	7	1	74-191N	DL16i
34	SN74LS569J		TTL	2	25M*	2.0*	.80Δ	12	20d	0.0	5.0						0	7	1	74LS569N	DL20g
35	SN74LS569N		TTL	2	25M*	2.0*	.80Δ	12	20d	0.0	5.0						0	7	1	74LS569N	DL20h
36	SN74LS569J		TTL	2	25M	2.0*	.80Δ	9	22d	0.0	5.0	60n			170m%		0	7	1		DL16v
37	SN74LS569N		TTL	2	25M	2.0*	.80Δ	9	22d	0.0	5.0	60n			170m%		0	7	1		DL16i
38	SN74S163J		TTL	2	25M*	2.0*	.80Δ	9	10	0.0	5.0	25nΔ			475m†	300m	0	7	1	74-163N	DL16v
39	SN74S163N		TTL	2	25M*	2.0*	.80Δ	9	10	0.0	5.0	25nΔ			475m†	300m	0	7	1	74-163N	DL16i
40	SN54161J		TTL	2	25M*	2.0*	.80Δ	9	10	0.0	5.0	38nΔ			305m†	400m	5	7	1	74-161N	DL16v
41	SN54161W		TTL	2	25M*	2.0*	.80Δ	9	10	0.0	5.0	38nΔ			305m†	400m	5	7	1	54-161W	MO004AG
42	SN54163J		TTL	2	25M*	2.0*	.80Δ	9	10	0.0	5.0	38nΔ			305m†	400m	5	7	1	74-163N	DL16v
43	SN54163W		TTL	2	25M*	2.0*	.80Δ	9	10	0.0	5.0	38nΔ			305m†	400m	5	7	1	54-163W	MO004AG
44	SN54191J		TTL	2	25M*	2.0*	.80Δ	8	10	0.0	5.0	50nΔ	10n	10n	325m†		5	7	1	74-191N	DL16v
45	SN54191W		TTL	2	25M*	2.0*	.80Δ	8	10	0.0	5.0	50nΔ	10n	10n	325m†	1.0	5	7	1	54-191W	MO004AG
46	SN74161J		TTL	2	25M*	2.0*	.80Δ	9	10	0.0	5.0	38nΔ			305m†	400m	5	7	1	74-161N	DL16v
47	SN74161N		TTL	2	25M*	2.0*	.80Δ	9	10	0.0	5.0	38nΔ			305m†	400m	5	7	1	74-161N	DL16i
48	SN74163J		TTL	2	25M*	2.0*	.80Δ	9	10	0.0	5.0	38nΔ			305m†	400m	5	7	1	74-163N	DL16v
49	SN74163N		TTL	2	25M*	2.0*	.80Δ	9	10	0.0	5.0	38nΔ			305m†	400m	5	7	1	74-163N	DL16i
50	SN74191J		TTL	2	25M*	2.0*	.80Δ	8	10	0.0	5.0	50nΔ	10n	10n	325m†		0	7	1	74-191N	DL16v
51	SN74191N		TTL	2	25M*	2.0*	.80Δ	8	10	0.0	5.0	50nΔ	10n	10n	325m†		0	7	1	74-191N	DL16i
52#	ZN54161E		TTL	2	25M*	2.0*	.80Δ	9	10	0.0	5.0	38nΔ			305m†	1.0 †	5	7	1	74-161N	TO116
53#	ZN54161J		TTL	2	25M*	2.0*	.80Δ	9	10	0.0	5.0	38nΔ			305m†	1.0 †	5	7	1	74-161N	DL14ap
54#	ZN54163E		TTL	2	25M*	2.0*	.80Δ	9	10	0.0	5.0	38nΔ			305m†	1.0 †	5	7	1	74-163N	TO116
55#	ZN54163J		TTL	2	25M*	2.0*	.80Δ	9	10	0.0	5.0	38nΔ			305m†	1.0 †	5	7	1	74-163N	DL14ap
56#	ZN54191E		TTL	2	25M*	2.0*	.80Δ	8	10	0.0	5.0	50nΔ	10n	10n	325m†	1.0 †	5	7	1	74-191N	TO116
57#	ZN54191J		TTL	2	25M*	2.0*	.80Δ	8	10	0.0	5.0	50nΔ	10n	10n	325m†	1.0 †	5	7	1	74-191N	DL14ap
58#	ZN74161E		TTL	2	25M*	2.0*	.80Δ	9	10	0.0	5.0	38nΔ			305m†	1.0 †	0	7	1	74-161N	TO116
59#	ZN74161J		TTL	2	25M*	2.0*	.80Δ	9	10	0.0	5.0	38nΔ			305m†	1.0 †	0	7	1	74-161N	DL14ap
60#	ZN74163E		TTL	2	25M*	2.0*	.80Δ	9	10	0.0	5.0	38nΔ			305m†	1.0 †	0	7	1	74-163N	TO116
61#	ZN74163J		TTL	2	25M*	2.0*	.80Δ	9	10	0.0	5.0	38nΔ			305m†	1.0 †	0	7	1	74-163N	DL14ap
62#	ZN74191E		TTL	2	25M*	2.0*	.80Δ	8	10	0.0	5.0	50nΔ	10n	10n	325m†	1.0 †	0	7	1	74-191N	TO116
63#	ZN74191J		TTL	2	25M*	2.0*	.80Δ	8	10	0.0	5.0	50nΔ	10n	10n	325m†	1.0 †	0	7	1	74-191N	DL14ap
64	JANM38510/31502BCA		ITTL	2	29M	2.0*	.70Δ	4	10d	0.0	5.0	81nΔ			83m		5	7	1	74LS93N	DL14bo
65	JANM38510/31502BCB		ITTL	2	29M	2.0*	.70Δ	4	10d	0.0	5.0	81nΔ			83m		5	7	1	74LS93N	DL14bo
66	JANM38510/31502BDA		ITTL	2	29M	2.0*	.70Δ	4	10d	0.0	5.0	81nΔ			83m		5	7	1	74LS93N	DL14bo
67	JANM38510/31502CCA		ITTL	2	29M	2.0*	.70Δ	4	10d	0.0	5.0	81nΔ			83m		5	7	1	54LS93	FP116
68	JANM38510/31502CCB		ITTL	2	29M	2.0*	.70Δ	4	10d	0.0	5.0	81nΔ			83m		5	7	1	74LS93N	DL14bo
69	JANM38510/31502CDA		ITTL	2	29M	2.0*	.70Δ	4	10d	0.0	5.0	81nΔ			83m		5	7	1	74LS93N	DL14bo
70	JANM38510/32004BCB		ITTL	2	29M	2.0*	.70Δ	4	10d	0.0	5.0	81nΔ			83m		5	7	1	54LS93	FP116
71	JANM38510/32004CCB		ITTL	2	29M*	2.0*	.70Δ	4	10d	0.0	5.5	81nΔ			82m	300m*	5	7	1	74-293N	DL14bo
72	54193DM		TTL	2	30M*	2.0*	.70Δ	4	10d	0.0	5.5	81nΔ			82m</						

11. COUNTERS

IN ORDER OF: (1) TECHNOLOGY (2) TYPE OF COUNTER
(3) OPERATING FREQ. (4) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE	MAX. OPER. FREQ. (Hz)	LOGIC LEVEL		FAN		POWER SUPPLY		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS		
						MIN. '1' (V)	MAX. '0' (V)	IN	OUT MAX	NEG (V)	POS (V)		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE	
1	74LS93PC		TTL	2	32M	2.0*	.80Δ	4	5	0.0	5.0	18nΔ			75m%	300m	0	7	1	74LS93N	TO116
2	54161DM		TTL	2	32M†	2.0*	.80Δ	9	10	0.0	5.0	38nΔ			305m†	400m*	5	C	1	74-161N	DL16cp
3	54161FM		TTL	2	32M*	2.0*	.80Δ	9	10	0.0	5.0	38nΔ			305m†	400m*	5	C	1	54-161W	FP93cc
4	54163DM		TTL	2	32M†	2.0*	.80Δ	9	10	0.0	5.0	38nΔ			305m†	400m*	5	C	1	74-163N	DL16cp
5	54163FM		TTL	2	32M†	2.0*	.80Δ	9	10	0.0	5.0	38nΔ			305m†	400m*	5	C	1	54-163W	FP93c
6	74161DC		TTL	2	32M†	2.0*	.80Δ	9	10	0.0	5.0	38nΔ			305m†	400m*	5	C	1	74-161N	DL16cp
7	74293PC		TTL	2	32MS*	2.0*	.80Δ	4	5	0.0	5.0	15n			290m		0	7	1	74-293N	TO116
8	DM54LS161AJ #mil		TTL	2	32M	2.0	0.8			0	7.0	14n			93m	0.4	5	C	4	E03-80	DL16au
9	DM54LS161AW #mil		TTL	2	32M	2.0	0.8			0	7.0	14n			93m	0.4	5	C	4	E03-80	FP98b
10	DM54LS163AJ #mil		TTL	2	32M	2.0	0.8			0	7.0	14n			93m	0.4	5	C	4	E03-80	DL16au
11	DM54LS163AW #mil		TTL	2	32M	2.0	0.8			0	7.0	14n			93m	0.4	5	C	4	E03-80	FP98b
12	DM54LS192J #mil		TTL	2	32M	2.0	0.8			0	7.0	26n			95m	0.4	5	C	4	E02-198	DL16au
13	DM54LS192W #mil		TTL	2	32M	2.0	0.8			0	7.0	26n			95m	0.4	5	C	4	E02-198	FP98b
14	DM54LS193J #mil		TTL	2	32M	2.0	0.8			0	7.0	26n			95m	0.4	5	C	4	E02-198	DL16au
15	DM54LS193W #mil		TTL	2	32M	2.0	0.8			0	7.0	26n			95m	0.4	5	C	4	E02-198	FP98b
16	DM74LS161AN		TTL	2	32M	2.0	0.8			0	7.0	14n			93m	0.4	0	7	4	E03-80	DL16a
17	DM74LS192N		TTL	2	32M	2.0	0.8			0	7.0	26n			95m	0.4	0	7	4	E02-198	DL16a
18	DM74LS193N		TTL	2	32M	2.0	0.8			0	7.0	26n			95m	0.4	0	7	4	E02-198	DL16a
19#	HD74LS93		TTL	2	32M	2.0*	.80Δ	4		0.0	5.0	25n	15n#		400m	300m	2	7	4	E02-201	DL14cz
20#	HD74LS93P		TTL	2	32M	2.0*	.80Δ	4		0.0	5.0	25n	15n#		400m	300m	2	7	4	E02-201	DL14cz
21#	SFC4193E		TTL	2	32M†	2.0*	.80Δ	8	10	0.0	5.0	47nΔ			325m†		0	7	1	74-193N	DL16a
22#	SFC4193EM		TTL	2	32M†	2.0*	.80Δ	8	10	0.0	5.0	47nΔ			325m†		5	C	1	74-193N	DL16a
23#	SFC4193ET		TTL	2	32M†	2.0*	.80Δ	8	10	0.0	5.0	47nΔ			325m†		2	8	1	74-193N	DL16a
24	SN54LS161AJ		TTL	2	32M	2.0*	.70Δ	9	10	0.0	5.0	35nΔ			160m		5	C	1	74-161N	DL16v
25	SN54LS161AW		TTL	2	32M	2.0*	.70Δ	9	10	0.0	5.0	35nΔ			160m		5	C	1	54-161W	MO004AG
26	SN54LS163AJ		TTL	2	32M	2.0*	.70Δ	9	10d	0.0	5.0	35nΔ			160m		5	C	1	74-163N	DL16v
27	SN54LS163AW		TTL	2	32M	2.0*	.70Δ	9	10d	0.0	5.0	35nΔ			160m		5	C	1	54-163W	MO004AG
28	SN74LS161AJ		TTL	2	32M	2.0*	.80Δ	9	10	0.0	5.0	35nΔ			160m		0	7	1	74-161N	DL16v
29	SN74LS161AN		TTL	2	32M	2.0*	.80Δ	9	10	0.0	5.0	35nΔ			160m		0	7	1	74-161N	DL16i
30	SN74LS163AJ		TTL	2	32M	2.0*	.80Δ	9	20d	0.0	5.0	35nΔ			160m		0	7	1	74-163N	DL16v
31	SN74LS163AN		TTL	2	32M	2.0*	.80Δ	9	20d	0.0	5.0	35nΔ			160m		0	7	1	74-163N	DL16i
32	SN29316J		TTL	2	32MS†	2.0*	.80Δ			0.0	5.0	35nΔ			315m%		0	7	1	74-161N	DL16v
33	SN29316N		TTL	2	32MS†	2.0*	.80Δ			0.0	5.0	35nΔ			315m%		0	7	1	74-161N	DL16i
34	SN39316J		TTL	2	32MS†	2.0*	.80Δ			0.0	5.0	35nΔ			315m%		5	C	1	74-161N	DL16v
35	SN54193J		TTL	2	32M†	2.0*	.80Δ	8	60	0.0	5.0	47nΔ			325m†		5	C	1	74-193N	DL16v
36	SN54193W		TTL	2	32M†	2.0*	.80Δ	8	60	0.0	5.0	47nΔ			325m†		5	C	1	54-193	MO004AG
37	SN74193J		TTL	2	32M†	2.0*	.80Δ	8	60	0.0	5.0	47nΔ			325m†		0	7	1	74-193N	DL16v
38	SN74193N		TTL	2	32M†	2.0*	.80Δ	8	60	0.0	5.0	47nΔ			325m†		0	7	1	74-193N	DL16i
39#	ZN54193E		TTL	2	32M†	2.0*	.80Δ	8	60	0.0	5.0	47nΔ			325m†	1.0	5	C	1	74-193N	TO116
40#	ZN54193J		TTL	2	32M†	2.0*	.80Δ	8	60	0.0	5.0	47nΔ			325m†	1.0	5	C	1	74-193N	DL14ap
41#	ZN74193E		TTL	2	32M†	2.0*	.80Δ	8	60	0.0	5.0	47nΔ			325m†	1.0	0	7	1	74-193N	TO116
42#	ZN74193J		TTL	2	32M†	2.0*	.80Δ	8	60	0.0	5.0	47nΔ			325m†	1.0	0	7	1	74-193N	DL14ap
43	54LS191DM		TTL	2	35M	2.0*	.80Δ	8	5	0.0	5.0	36nΔ			175m%	300m	5	C	1	74-191N	DL16cp
44	54LS191FM		TTL	2	35M	2.0*	.80Δ	8	5	0.0	5.0	36nΔ			175m%	300m	5	C	1	54-191W	FP93c
45	74LS191DC		TTL	2	35M	2.0*	.80Δ	8	5	0.0	5.0	36nΔ			175m%	300m	0	7	1	74-191N	DL16x
46	74LS191PC		TTL	2	35M	2.0*	.80Δ	8	5	0.0	5.0	36nΔ			175m%	300m	0	7	1	74-191N	DL16bi
47	DM54LS393J #mil		TTL	2	35M	2.0	0.8			0	7.0	20n				0.4	5	C	4	E02-107	DL14g
48	DM54LS393W #mil		TTL	2	35M	2.0	0.8			0	7.0	20n				0.4	5	C	4	E02-107	FP97c
49	DM74LS393N		TTL	2	35M	2.0	0.8			0	7.0	20n				0.4	5	C	4	E02-107	DL14r
50	DM7556J #mil		TTL	2	35M	2.0	0.8					22n				0.4	5	C	4	75-56	DL16au
51	DM7556W #mil		TTL	2	35M	2.0	0.8					22n				0.4	5	C	4	75-56	FP98b
52	DM8316N		TTL	2	35M	2.0	0.8					27n				0.4	0	7	4	E03-80	DL16a
53	DM9316J #mil		TTL	2	35M	2.0	0.8					27n				0.4	5	C	4	E03-80	DL16au
54	DM9316W #mil		TTL	2	35M	2.0	0.8					27n				0.4	5	C	4	E03-80	FP98b
55	DM54161AJ #mil		TTL	2	35M	2.0	0.8			0	7.0	14n			315m	0.4	5	C	4	E03-80	FP98b
56	DM54161AW #mil		TTL	2	35M	2.0	0.8			0	7.0	14n			315m	0.4	5	C	4	E03-80	FP98b
57	DM54163AJ #mil		TTL	2	35M	2.0	0.8			0	7.0	14n			315m	0.4	5	C	4	E03-80	FP98b
58	DM54163AW #mil		TTL	2	35M	2.0	0.8			0	7.0	14n			315m	0.4	5	C	4	E03-80	DL16au
59	DM74161AN		TTL	2	35M	2.0	0.8			0	7.0	14n			315m	0.4	0	7	4	E03-80	FP98b
60	DM74161N		TTL	2	35MS†	2.0*	.80Δ	9		0.0	5.0	35nΔ			455m%		0	7	1	74-161	DL16bu
61	DM74163N		TTL	2	35MS†	2.0*	.80Δ	9		0.0	5.0	35nΔ			455m%		0	7	1	74-163N	DL16bu
62▼	N74LS161AD		TTL	2	35M*	2.0*	.8Δ	9	20	0.0	5.0	28nΔ			160m		0	7	1	74-161N	DL16aw
63	N74LS161AN		TTL	2	35M*	2.0*	.80Δ	9	20	0.0	5.0	28nΔ			160m		0	7	1	74-161N	DL16bp
64▼	N74LS163AD		TTL	2	35M*	2.0*	.8Δ	9	20	0.0	5.0	27nΔ			160m		0	7	1	74-163N	DL16aw
65	N74LS163AN		TTL	2	35M*	2.0*	.80Δ	9	20	0.0	5.0	27nΔ			160m		0	7	1	74-163N	DL16bp
66	S54LS161AF		TTL	2	35M*	2.0*	.70Δ	9		0.0	5.0	28nΔ			160m		5	C	1	54-161W	DL16aw
67	S54LS161AW		TTL	2	35M*	2.0*	.70Δ	9		0.0	5.0	28nΔ			160m		5	C	1	54-161W	FP47g
68	S54LS163AF		TTL	2	35M*	2.0*	.70Δ	9		0.0	5.0	27nΔ			160m		5	C	1	74-163N	DL16aw
69	S54LS163AW		TTL	2	35M*	2.0*	.70Δ	9		0.0	5.0	27nΔ			160m		5	C	1	54-163W	FP47g
70▼	S54LS569AF		TTL	2	35M	2.0§	0.7	4		0.5	7.0	25nΔ					5	C	1	74LS569	DL20Z
71	SN54393J		TTL	2	35M†	2.0*	.80Δ	2	10	0.0	5.0	60nΔ			190m†	1.0 †	5	C	2	74-393N	DL16v
72	SN54393W		TTL	2	35M†	2.0*	.80Δ	2	10	0.0	5.0	60nΔ			190m†	1.0 †	5	C	2	54-393W	MO004AG
73	SN74393J		TTL	2	35M†	2.0*	.80Δ	2	10	0.0	5.0	60nΔ			190m†	1.0 †	0	7	2	74-393N	DL16v
74	SN74393N		TTL	2	35M†	2.0*	.80Δ	2	10	0.0	5.0	60nΔ			190m†	1.0 †	0	7</			

11. COUNTERS

IN ORDER OF (1) TECHNOLOGY (2) TYPE OF COUNTER
(3) OPERATING FREQ. (4) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE	MAX. OPER. FREQ. (Hz)	LOGIC LEVEL		FAN		POWER SUPPLY SPAN	PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKT PER MOD	DRAWINGS	
						MIN. (V)	MAX. (V)	IN	OUT MAX			RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE
1	DM54LS293W#mil		TTL	2	42M	2.0	0.8			0 7.0	16n			45m	0.4	5 C	4	E02-53	FP97c
2	DM74LS290N		TTL	2	42M	2.0	0.8			0 7.0	16n			45m	0.4	5 C	4	E02-53	DL14r
3	DM74LS293N		TTL	2	42M	2.0	0.8			0 7.0	16n			45m	0.4	5 C	4	E02-53	DL14r
4	N82591F		TTL	2	42M*	2.6*	.50ΔC	8	50	0.0 5.0	39nΔ			440m		0 7	1	74-177N	DL14bh
5	N82591N		TTL	2	42M*	2.6*	.50ΔC	8	50	0.0 5.0	39nΔ			440m		0 7	1	74-177N	DL14br
6	AM25LS193DC		TTL	2	45M†	2.0*	.80Δ	9		0.0 5.0						0 7	1	74-193N	DL16ca
7	AM25LS193DM		TTL	2	45M†	2.0*	.70Δ	9		0.0 5.0						5 C	1	74-193N	DL16ca
8	AM25LS193FM		TTL	2	45M†	2.0*	.70Δ	9		0.0 5.0						5 C	1	54-193W	FP79b
9	AM25LS193PC		TTL	2	45M†	2.0*	.80Δ	9		0.0 5.0						0 7	1	74-193N	DL16ce
10	DM7280J		TTL	2	45M††	2.8*	.40CΔ	8		0.0 5.0	45nΔ			130m†		5 C	1	74-176N	DL14ax
11	DM7280W		TTL	2	45M††	2.8*	.40CΔ	8		0.0 5.0	45nΔ			130m†		5 C	1	54-176W	FP97a
12	DM8280J		TTL	2	45M††	2.8*	.40CΔ	8	20	0.0 5.0	45nΔ			130m†		0 7	1	74-176N	DL14ax
13	DM8280N		TTL	2	45M††	2.8*	.40CΔ	8		0.0 5.0	45nΔ			130m†		0 7	1	74-176N	DL14bt
14	DM8280W		TTL	2	45M††	2.8*	.40CΔ	8		0.0 5.0	45nΔ			130m†		0 7	1	54-176W	FP97a
15	DM74176J		TTL	2	45M††	2.8*	.40CΔ	8		0.0 5.0	45nΔ			130m†		0 7	1	74-176N	DL14ax
16	DM74176N		TTL	2	45M††	2.8*	.40CΔ	8		0.0 5.0	45nΔ			130m†		0 7	1	74-176N	DL14bt
17	DM74176W		TTL	2	45M††	2.8*	.40CΔ	8		0.0 5.0	45nΔ			130m†		0 7	1	54-176W	FP97a
18	54LS293DM		TTL	2	50M†	2.0*	.70Δ	4	2	0.0 5.0	70nΔ			75m*	300m	5 C	1	74-293N	TO116
19	54LS293FM		TTL	2	50M†	2.0*	.70Δ	4	2	0.0 5.0	70nΔ			75m*	300m	5 C	1	54-293W	TO86
20	74LS293DC		TTL	2	50M†	2.0*	.80Δ	4	5	0.0 5.0	70nΔ			75m*	300m	0 7	1	74-293N	TO116
21	74LS293PC		TTL	2	50M†	2.0*	.80Δ	4	5	0.0 5.0	70nΔ			75m*	300m	0 7	1	74-293N	TO116
22	AM25LS161DC		TTL	2	50M†	2.0*	.80Δ	9		0.0 5.0	20n			160m*		0 7	1	74-161N	DL16ca
23	AM25LS161DM		TTL	2	50M†	2.0*	.70Δ	9		0.0 5.0	20n			160m*		5 C	1	54-161W	FP79b
24	AM25LS161FM		TTL	2	50M†	2.0*	.70Δ	9		0.0 5.0	20n			160m*		5 C	1	74-161N	DL16ca
25	AM25LS161PC		TTL	2	50M†	2.0*	.80Δ	9		0.0 5.0	20n			160m*		0 7	1	74-161N	DL16ce
26	AM25LS163DC		TTL	2	50M†	2.0*	.80Δ	9		0.0 5.0	20n			160m*		0 7	1	74-163N	DL16ca
27	AM25LS163DM		TTL	2	50M†	2.0*	.70Δ	9		0.0 5.0	20n			160m*		5 C	1	74-163N	DL16ca
28	AM25LS163FM		TTL	2	50M†	2.0*	.70Δ	9		0.0 5.0	20n			160m*		5 C	1	54-163W	FP79b
29	AM25LS163PC		TTL	2	50M†	2.0*	.80Δ	9		0.0 5.0	20n			160m*		0 7	1	74-163N	DL16ce
30	DM7556N		TTL	2	50M	2.0*	.80Δ	5		0.0 5.0	27n			375m†		5 C	1	75-56	DL16bu
31	DM8556N		TTL	2	50M	2.0*	.80Δ	5		0.0 5.0	27n			375m†		0 7	1	75-56	DL16bu
32	DM54197J#mil		TTL	2	50M	2.0	0.8			0 7.0	13n			240m	0.4	5 C	4	E02-110	DL14g
33	SN54LS197J		TTL	2	50M*	2.0*	.70Δ	8	10d	0.0 5.0	95nΔ			135m	1.0 †	5 C	1	74-177N	DL14af
34	SN74LS197J		TTL	2	50M*	2.0*	.70Δ	8	20d	0.0 5.0	95nΔ			135m	1.0 †	0 7	1	74-177N	DL14af
35	SN74LS197N		TTL	2	50M*	2.0*	.70Δ	8	20d	0.0 5.0	95nΔ			135m	1.0 †	0 7	1	74-177N	DL14r
36	SN54197J		TTL	2	50M*†	2.0*	.80Δ	8	10	0.0 5.0	63nΔ		5.0n	240m†		5 C	1	74-177N	DL14af
37	SN54197W		TTL	2	50M*†	2.0*	.80Δ	8	20	0.0 5.0	63nΔ			240m†		5 C	1	54-177	MO004AG
38	SN74197J		TTL	2	50M*†	2.0*	.80Δ	8	10	0.0 5.0	63nΔ		5.0n	240m†		0 7	1	74-177N	DL14af
39	SN74197N		TTL	2	50M*†	2.0*	.80Δ	8	10	0.0 5.0	63nΔ			240m†		0 7	1	74-177N	DL14r
40	74LS197DC		TTL	2	60M	2.0*	.80Δ	8	5	0.0 5.0	26n			100m*	300m	0 7	1	74-177N	TO116
41	74LS197PC		TTL	2	60M	2.0*	.80Δ	8	5	0.0 5.0	26n			100m*	300m	0 7	1	74-177N	TO116
42	N8291Q		TTL	2	60M††	2.6*	.40C	8	12	0.0 5.0	5.0n	5.0n	5.0n	255m		0 7	1	E02-48a	TO88
43	54197DM		TTL	2	70M†	2.0*	.80Δ	8	10	0.0 5.0	63nΔ			240m†	400m*	5 C	1	74-177N	TO116
44	54197FM		TTL	2	70M†	2.0*	.80Δ	8	10	0.0 5.0	63nΔ			240m†	400m*	5 C	1	54-177W	FP52
45	74197DC		TTL	2	70M†	2.0*	.80Δ	8	10	0.0 5.0	63nΔ			240m†	400m*	0 7	1	74-177N	TO116
46	74197PC		TTL	2	70M†	2.0*	.80Δ	8	10	0.0 5.0	63nΔ			240m†	400m*	0 7	1	74-177N	FP21h
47	DM54S163J#mil		TTL	2	70M	2.0	0.8			0 7.0	9.0n			475m	0.3	5 C	4	E03-80	DL16au
48	DM54S163W#mil		TTL	2	70M	2.0	0.8			0 7.0	9.0n			475m	0.3	5 C	4	E03-80	FP98b
49	DM74S161N		TTL	2	70M	2.0	0.8			0 7.0	9.0n			475m	0.3	0 7	4	E03-80	DL16a
50	MC54F191J(A)		TTL	2	80M	2.0	0.8			0.0 5.0	12n					5 C	1	74-191	DL16ao
51	MC54F191N(A)		TTL	2	80M	2.0	0.8			0.0 5.0	12n					5 C	1	74-191	DL16dp
52	MC74F191J(A)		TTL	2	80M	2.0	0.8			0.0 5.0	10n					0 7	1	74-191	DL16ao
53	MC74F191N(A)		TTL	2	80M	2.0	0.8			0.0 5.0	10n					0 7	1	74-191	DL16dp
54	DM54S196J#mil		TTL	2	100M	2.0	0.8			0 7.0	11n			375m	0.3	5 C	4	E02-110	DL14g
55	DM54S196W#mil		TTL	2	100M	2.0	0.8			0 7.0	11n			375m	0.3	5 C	4	E02-110	FP97c
56	DM54S197J#mil		TTL	2	100M	2.0	0.8			0 7.0	11n			375m	0.3	5 C	4	E02-110	DL14g
57	DM74S196N		TTL	2	100M	2.0	0.8			0 7.0	11n			375m	0.3	0 7	4	E02-110	DL14r
58	DM74S197N		TTL	2	100M	2.0	0.8			0 7.0	11n			375m	0.3	0 7	4	E02-110	DL14r
59	N745197F		TTL	2	100M†	2.6*	.50ΔC	8	20	0.0 5.0	5.0n			461m	1.0 †	0 7	1	74-177N	DL14aq
60	SN54S161J		TTL	2	100M†	2.0*	.80Δ	9		0.0 5.0	14n			635m*		5 C	1	74-161N	DL16ca
61	SN54S161W		TTL	2	100M†	2.0*	.80Δ	9		0.0 5.0	14n			635m*		5 C	1	54-161	FP79b
62	SN54S197J		TTL	2	100M†	2.0*	.80Δ	8	10	0.0 5.0	37nΔ			550m	1.0 †	5 C	1	74-177N	DL14af
63	SN54S197W		TTL	2	100M†	2.0*	.80Δ	8	10	0.0 5.0	37nΔ			550m	1.0 †	5 C	1	54-177W	MO004AA
64	SN74S161J		TTL	2	100M†	2.0*	.80Δ	9		0.0 5.0	14n			635m*		0 7	1	74-161N	DL16ca
65	SN74S161N		TTL	2	100M†	2.0*	.80Δ	9		0.0 5.0	14n			635m*		0 7	1	74-161N	DL16ce
66	SN74S197J		TTL	2	100M†	2.0*	.80Δ	8	10	0.0 5.0	37nΔ			600m	1.0 †	0 7	1	74-177N	DL14af
67	SN74S197N		TTL	2	100M†	2.0*	.80Δ	8	10	0.0 5.0	37nΔ			600m	1.0 †	0 7	1	74-177N	DL14r
68	SN54AS867JT		TTL	2	115M†	2.0	0.8			0 7.0	</								

11. COUNTERS

IN ORDER OF:(1)TECHNOLOGY(2)TYPE OF COUNTER
(3)OPERATING FREQ.(4)TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	T Y P E	MAX. OPER. FREQ. (Hz)	LOGIC LEVEL		FAN		POWER SUPPLY		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE (C)	CKTS PER MOD	DRAWINGS		
						MIN. '1' (V)	MAX. '0' (V)	IN	OUT MAX	NEG (V)	POS (V)		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE	
1	SN54L93W		TTL	2F	3.0M*	2.0*	7.0Δ	4	10	0.0	5.0	450nΔ			16m†	1.0 †	5	C	1	54L93T	FP52e
2	SN54LS93J		TTL	2F	16M*	2.0*	7.0Δ	4	10	0.0	5.0	70nΔ			45m†	1.0 †	5	C	1	74LS93N	DL14af
3	SN54LS93W		TTL	2F	16M*	2.0*	7.0Δ	4	10	0.0	5.0	70nΔ			45m†	1.0 †	5	C	1	74LS93N	MO004AA
4	SN74LS93J		TTL	2F	16M*	2.0*	8.0Δ	4	10	0.0	5.0	70nΔ			45m†	1.0 †	0	7	1	74LS93N	DL14af
5	SN74LS93N		TTL	2F	16M*	2.0*	8.0Δ	4	10	0.0	5.0	70nΔ			45m†	1.0 †	0	7	1	74LS93N	DL14r
6	SN5493AJ		TTL	2F	16M*	2.0*	8.0Δ	4	10	0.0	5.0	70nΔ			130m†	1.0 †	5	C	1	74LS93N	DL14af
7	SN5493AW		TTL	2F	16M*	2.0*	8.0Δ	4	10	0.0	5.0	70nΔ			130m†	1.0 †	5	C	1	54LS93	MO004AA
8	SN7493AJ		TTL	2F	16M*	2.0*	8.0Δ	4	10	0.0	5.0	70nΔ			130m†	1.0 †	0	7	1	74LS93N	DL14af
9	SN7493AN		TTL	2F	16M*	2.0*	8.0Δ	4	10	0.0	5.0	70nΔ			130m†	1.0 †	0	7	1	74LS93N	DL14r
10#	ZN5493AE		TTL	2F	16M*	2.0*	8.0Δ	4	10	0.0	5.0	70nΔ			130m†	1.0 †	5	C	1	74LS93N	TO116
11#	ZN5493AJ		TTL	2F	16M*	2.0*	8.0Δ	4	10	0.0	5.0	70nΔ			130m†	1.0 †	5	C	1	74LS93N	DL14ap
12#	ZN7493AE		TTL	2F	16M*	2.0*	8.0Δ	4	10	0.0	5.0	70nΔ			130m†	1.0 †	0	7	1	74LS93N	TO116
13#	ZN7493AJ		TTL	2F	16M*	2.0*	8.0Δ	4	10	0.0	5.0	70nΔ			130m†	1.0 †	0	7	1	74LS93N	DL14ap
14#	M53292P		TTL	2F	18M†	2.0*	8.0Δ	4	40	0.0	7.0	60n			155m†	1.0 †	0	7	1	E02-46b	DL14d
15#	M53293P		TTL	2F	18M†	2.0*	8.0Δ	4	40	0.0	7.0	75n			160m†	1.0 †	0	7	1	E02-46a	DL14d
16#	SFC492E		TTL	2F	18M†	2.0*	8.0Δ	4	10	0.0	5.0	75n			155m†	1.0	0	7	1	74-92N	TO116
17#	SFC492EM		TTL	2F	18M†	2.0*	8.0Δ	4	10	0.0	5.0	75n			155m†	1.0	5	C	1	74-92N	TO116
18#	SFC492ET		TTL	2F	18M†	2.0*	8.0Δ	4	10	0.0	5.0	75n			155m†	1.0	2	8	1	74-92N	TO116
19#	SFC492PM		TTL	2F	18M†	2.0*	8.0Δ	4	10	0.0	5.0	75n			155m†	1.0	5	C	1	54-92	TO85
20#	SFC493E		TTL	2F	18M†	2.0*	8.0Δ	4	10	0.0	5.0	75n			155m†	1.0	0	7	1	74LS93N	TO116
21#	SFC493EM		TTL	2F	18M†	2.0*	8.0Δ	4	10	0.0	5.0	75n			155m†	1.0	5	C	1	74LS93N	TO116
22#	SFC493ET		TTL	2F	18M†	2.0*	8.0Δ	4	10	0.0	5.0	75n			155m†	1.0	2	8	1	74LS93N	TO116
23#	SFC493PM		TTL	2F	18M†	2.0*	8.0Δ	4	10	0.0	5.0	75n			155m†	1.0	5	C	1	54LS93	TO85
24	DM5493J		TTL	2F	32M†	2.0*	8.0Δ	6	0.0	5.0	100nΔ			215m%		5	C	1	74LS93N	DL14ax	
25	DM5493W		TTL	2F	32M†	2.0*	8.0Δ	6	0.0	5.0	100nΔ			215m%		5	C	1	54LS93	FP97a	
26	SN54LS293J		TTL	2F	32M\$*	2.0*	7.0Δ	4	10d	0.0	5.0	70nΔ			75m	300m	5	C	1	74-293N	DL14af
27	SN54LS293W		TTL	2F	32M\$*	2.0*	7.0Δ	4	10d	0.0	5.0	70nΔ			75m	300m	5	C	1	54-293W	MO004AA
28	SN74LS293J		TTL	2F	32M\$*	2.0*	8.0Δ	4	20d	0.0	5.0	70nΔ			75m	400m	0	7	1	74-293N	DL14af
29	SN74LS293N		TTL	2F	32M\$*	2.0*	8.0Δ	4	20d	0.0	5.0	70nΔ			75m	400m	0	7	1	74-293N	DL14r
30	SN54293J		TTL	2F	32M\$*	2.0*	8.0Δ	4	4	0.0	5.0	70nΔ			195m	400m	5	C	1	74-293N	DL14af
31	SN54293W		TTL	2F	32M\$*	2.0*	8.0Δ	4	4	0.0	5.0	70nΔ			195m	400m	5	C	1	54-293W	MO004AA
32	SN74293J		TTL	2F	32M\$*	2.0*	8.0Δ	4	4	0.0	5.0	70nΔ			195m	400m	0	7	1	74-293N	DL14af
33	SN74293N		TTL	2F	32M\$*	2.0*	8.0Δ	4	4	0.0	5.0	70nΔ			195m	400m	0	7	1	74-293N	DL14r
34#	M74LS93P		TTL	2F	50M†	2.0*	8.0Δ	4	20	0.0	5.0	70nΔ	15n#		45m†	400m*	2	7	1	74LS93N	DL14cf
35#	M74LS293P		TTL	2F	50M†	2.0*	8.0Δ	4	20	0.0	5.0	70nΔ			45m†	400m*	2	7	1	74LS93N	DL14cf
36#	M74LS93P		TTL	2F	50M†	2.0*	8.0Δ	2	20	0.0	5.0	35nΔ	12n#		75m†	400m*	2	7	2	74-393N	DL14cf
37	SN54LS691J		TTL	2L		2.0*\$	7.0Δ	12	0.0	5.0							5	C	1	*	DL20b
38	SN54LS693J		TTL	2L		2.0*\$	7.0Δ	12	0.0	5.0							5	C	1	*	DL20b
39	SN54LS697J		TTL	2L		2.0*\$	7.0Δ	12	0.0	5.0							5	C	1	*	DL20b
40	SN54LS699J		TTL	2L		2.0*\$	7.0Δ	12	0.0	5.0							5	C	1	*	DL20b
41	SN74LS691J		TTL	2L		2.0*\$	8.0Δ	12	0.0	5.0							0	7	1	*	DL20b
42	SN74LS691N		TTL	2L		2.0*\$	8.0Δ	12	0.0	5.0							0	7	1	*	DL20a
43	SN74LS693J		TTL	2L		2.0*\$	8.0Δ	12	0.0	5.0							0	7	1	*	DL20b
44	SN74LS693N		TTL	2L		2.0*\$	8.0Δ	12	0.0	5.0							0	7	1	*	DL20a
45	SN74LS697J		TTL	2L		2.0*\$	8.0Δ	12	0.0	5.0							0	7	1	*	DL20b
46	SN74LS697N		TTL	2L		2.0*\$	8.0Δ	12	0.0	5.0							0	7	1	*	DL20a
47	SN74LS699J		TTL	2L		2.0*\$	8.0Δ	12	0.0	5.0							0	7	1	*	E01-124
48	SN74LS699N		TTL	2L		2.0*\$	8.0Δ	12	0.0	5.0							0	7	1	*	E01-124
49	AM25LS2569DM		TTL	2R	18M	2.0*\$	7.0Δ	12	22d	0.0	5.0	45nΔ			236m	300m*	5	C	1	74LS569N	DL20k
50	AM25LS2569FM		TTL	2R	18M	2.0*\$	7.0Δ	12	22d	0.0	5.0	45nΔ			236m	300m*	5	C	1	54-569w	FP143
51	JANM38510/31509BEB		TTL	2R	18M	2.0*	7.0Δ	8	10d	0.0	5.0	80nΔ			193m		5	C	1	74-191N	DL16br
52	JANM38510/31509CEB		TTL	2R	18M	2.0*	7.0Δ	8	10d	0.0	5.0	80nΔ			193m		5	C	1	74-191N	DL16br
53	AM25LS2569DC		TTL	2R	20M	2.0*\$	8.0Δ	12	22d	0.0	5.0	45nΔ			225m	300m*	0	7	1	74LS569N	DL20k
54	AM25LS2569PC		TTL	2R	20M	2.0*\$	8.0Δ	12	22d	0.0	5.0	45nΔ			225m	300m*	0	7	1	74LS569N	DL20m
55▼	N74LS191D		TTL	2R	20M*	2.0*	8.0Δ	8	20	0.0	5.0	52nΔ			175m		0	7	1	74-191N	DL16aw
56	N74LS191N		TTL	2R	20M*	2.0*	8.0Δ	8	20	0.0	5.0	52nΔ			175m		0	7	1	74-191N	DL16bp
57	N74191F		TTL	2R	20M*	2.0*	8.0Δ	8	10	0.0	5.0	52nΔ			525m	1.0 †	0	7	1	74-191N	DL16aw
58	N74191N		TTL	2R	20M*	2.0*	8.0Δ	8	10	0.0	5.0	52nΔ			525m		0	7	1	74-191N	DL16bp
59	S54LS191F		TTL	2R	20M*	2.0*	7.0Δ	8	0.0	5.0	52nΔ			175m		5	C	1	74-191N	DL16aw	
60	S54LS191W		TTL	2R	20M*	2.0*	7.0Δ	8	0.0	5.0	52nΔ			175m		5	C	1	54-191W	FP47g	
61	JANM38510/31508BEB		TTL	2R	22M	2.0*	7.0Δ	8	10d	0.0	5.0	73nΔ			187m		5	C	1	74-193N	DL16br
62	JANM38510/31508CEB		TTL	2R	22M	2.0*	7.0Δ	8	10d	0.0	5.0	73nΔ			187m		5	C	1	74-193N	DL16br
63	54LS169DM		TTL	2R	25M†	2.0*	7.0Δ	9	11d	0.0	5.0	30nΔ			170m†	400m*	5	C	1	74S169N	DL16cj
64	54LS169FM		TTL	2R	25M†	2.0*	7.0Δ	9	11d	0.0	5.0	30nΔ			170m†	400m*	5	C	1	54S169W	FP103
65	74LS169DC		TTL	2R	25M†	2.0*	8.0Δ	9	22d	0.0	5.0	30nΔ			170m†	300m*	0	7	1	74S169N	DL16cj
66	74LS169PC		TTL	2R	25M†	2.0*	8.0Δ	9	22d	0.0	5.0	30nΔ			170m†	300m*	0	7	1	74S169N	*
67	N74LS169AF		TTL	2R	25M*	2.0*	8.0Δ	9	20	0.0	5.0	35nΔ			170m		0	7	1	74S169N	DL16aw
68	N74LS169AN		TTL	2R	25M*	2.0*	8.0Δ	9	20	0.0	5.0	35nΔ			170m		0	7	1	74S169N	DL16bp
69▼	N74LS193D		TTL	2R	25M*	2.0*	8.0Δ	8	20	0.0	5.0	47nΔ			170m		0	7	1	74-193N	DL16aw
70	N74LS193N		TTL	2R	25M*	2.0*	8.0Δ	8	20	0.0	5.0	47nΔ			170m		0	7	1	74-193N	DL16bp
71	N74LS569F		TTL	2R	25M*	2.0*\$	8.0Δ	12	20	0.0	5.0	35nΔ			215m		0	7	1	74LS569N	DL20j
72	N74LS569N		TTL	2R	25M*	2.0*\$	8.0Δ	12	20	0.0	5.0	35nΔ			215m		0	7	1	74LS569N	DL20i
73	N74193F		TTL	2R	25M*	2.0*	8.0Δ	8	10	0.0	5.0	47nΔ			510m	1					

11. COUNTERS

IN ORDER OF (1) TECHNOLOGY (2) TYPE OF COUNTER
(3) OPERATING FREQ. (4) TYPE NO.

LINE No.	4] TYPE NO.	DATA SHT.	1] TECH	2] TYPE	3] MAX. OPER. FREQ. (Hz)	LOGIC LEVEL		FAN IN	FAN OUT	POWER SUPPLY SPAN NEG (V)	POWER SUPPLY POS (V)	PROPAGATION DELAY (S)	MAXIMUM RISE TIME (S)	MAXIMUM FALL TIME (S)	MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS			
						MIN. '1' (V)	MAX. '0' (V)												LOGIC OR BLOCK	OUTLINE		
1#	K155IE2		TTL	3	23Δ	2.4	0.4		10		5.0		100n	100n								
2#	K155IE6		TTL	3	236	2.4	0.4		10		5.0	40n	40n	35n								
3#	SP8906		TTL	3	256	2.3	1.3	1	1	0.0	5.0	60n								E09-2	DL14dc	
4#	K155IE7		TTL	3	26Δ	2.4	0.4		10		5.0	40n	40n	35n								
5#	K155IE9		TTL	3	35	2.4	0.4				5.0		16n*	16n*								
6#	DM76175W#mil		TTL	3	13M	2.0	0.7				5.0	75n			33m	0.4				E01-79	DL16au	
7#	HD74LS290		TTL	3	16M	2.0*	.80Δ			0.0	5.0	32n	15n#		400m	300m	2	7	4		DL14cz	
8#	HD74LS290P		TTL	3	16M	2.0*	.80Δ			0.0	5.0	32n	15n#		400m	300m	2	7	4		DL14cz	
9#	HD74LS190		TTL	3	20M	2.0*	.80Δ		7	0.0	5.0	24n			400m	300m	2	7	4		DL16bc	
10#	HD74LS190P		TTL	3	20M	2.0*	.80Δ		7	0.0	5.0	24n			400m	300m	2	7	4		DL16bc	
11	JANM38510/01308BEA		TTL	3	20M\$	2.0*	.80Δ		8	10	0.0	5.5	71nΔ		490m		5	C	1	74-192N	DL16br	
12	JANM38510/01308BEB		TTL	3	20M\$	2.0*	.80Δ		8	10	0.0	5.5	71nΔ		490m		5	C	1	74-192N	DL16br	
13	JANM38510/01308BFA		TTL	3	20M\$	2.0*	.80Δ		8	10	0.0	5.5	71nΔ		490m		5	C	1	54-192W	FP117	
14	JANM38510/01308BFB		TTL	3	20M\$	2.0*	.80Δ		8	10	0.0	5.5	71nΔ		490m		5	C	1	54-192W	FP117	
15	JANM38510/01308CEA		TTL	3	20M\$	2.0*	.80Δ		8	10	0.0	5.5	71nΔ		490m		5	C	1	74-192N	DL16br	
16	JANM38510/01308CEB		TTL	3	20M\$	2.0*	.80Δ		8	10	0.0	5.5	71nΔ		490m		5	C	1	74-192N	DL16br	
17	JANM38510/01308CFA		TTL	3	20M\$	2.0*	.80Δ		8	10	0.0	5.5	71nΔ		490m		5	C	1	74-192N	DL16br	
18	JANM38510/01308CFB		TTL	3	20M\$	2.0*	.80Δ		8	10	0.0	5.5	71nΔ		490m		5	C	1	54-192W	FP117	
19#	HD74LS160		TTL	3	20M\$	2.0*	.80Δ		8	10	0.0	5.5	71nΔ		490m		5	C	1	54-192W	FP117	
20#	HD74LS160P		TTL	3	25M	2.0*	.80Δ		9		0.0	5.0	15n		400n	300m	2	7	4	E03-80	DL16bc	
21#	HD74LS162		TTL	3	25M	2.0*	.80Δ		9		0.0	5.0	15n		400n	300m	2	7	4	E03-80	DL16bc	
22#	HD74LS162P		TTL	3	25M	2.0*	.80Δ		9		0.0	5.0	15n		400n	300m	2	7	4	E03-80	DL16bc	
23#	HD74LS192		TTL	3	25M	2.0*	.80Δ				0.0	5.0	22n	30n#	400m	300m	2	7	4	E02-198	DL16bc	
24#	HD74LS192P		TTL	3	25M	2.0*	.80Δ				0.0	5.0	22n	30n#	400m	300m	2	7	4	E02-198	DL16bc	
25#	HD74LS490		TTL	3	25M	2.0*	.80Δ				0.0	5.0	37n	20n#	400m	300m	2	7	2		DL16bc	
26#	HD74LS490P		TTL	3	25M	2.0*	.80Δ				0.0	5.0	37n	20n#	400m	300m	2	7	2		DL16bc	
27#	HD74LS668		TTL	3	25M	2.0*	.80Δ				0.0	5.0	36n	25n#	400m	300m	2	7	4		DL16bc	
28#	HD74LS668P		TTL	3	25M	2.0*	.80Δ				0.0	5.0	36n	25n#	400m	300m	2	7	4		DL16bc	
29#	MB74LS192		TTL	3	25M*	2.0*	.80Δ		8	20	0.0	5.0	47nΔ		170m		2	7	1	74-192N	DL16as	
30#	MB74LS192M		TTL	3	25M*	2.0*	.80Δ		8	20	0.0	5.0	47nΔ		170m		2	7	1	74-192N	DL16cu	
31#	MB74LS193		TTL	3	25M*	2.0*	.80Δ		8	20	0.0	5.0	47nΔ		170m		2	7	1	74-193N	DL16as	
32#	MB74LS193M		TTL	3	25M*	2.0*	.80Δ		8	20	0.0	5.0	47nΔ		170m		2	7	1	74-193N	DL16cu	
33	N8280C		TTL	3	25MT†	2.6*	.40CΔ		8	20	0.0	5.0	25nΔ		236m		0	7	1	74-193N	TO88	
34	S54163E		TTL	3	25M*	2.0*	.80Δ		8	20	0.0	5.0	35nΔ		325m†		5	C	1	74-163N	DL16t	
35	S54163F		TTL	3	25M*	2.0*	.80Δ		9	20	0.0	5.0	35nΔ		325m†		5	C	1	54-163W	FP79a	
36	S54192E		TTL	3	25M	2.0*	.80Δ		8	10	0.0	5.0	47n				5	C	1	74-192N	DL16t	
37	S54192F		TTL	3	25M	2.0*	.80Δ		8	10	0.0	5.0	47n				5	C	1	54-192W	FP79a	
38	SP3280A		TTL	3	25M†	3.5*	.60CΔ		8	5	0.0	5.0	50nΔ		260m	1.0 †	0	7	1	E03-26	TO116	
39	SP3281A		TTL	3	25M†	3.5*	.60CΔ		8	5	0.0	5.0	50nΔ		260m	1.0 †	0	7	1	E03-26	TO116	
40	JANM38510/32003BCB		TTL	3	29M*	2.0*	.70Δ		6	10d	0.0	5.5	81nΔ		82m	300m*	5	C	1	74-290N	DL14bo	
41	JANM38510/32003CCB		TTL	3	29M*	2.0*	.70Δ		6	10d	0.0	5.5	81nΔ		82m	300m*	5	C	1	74-290N	DL14bo	
42#	74167PC		TTL	3	32M†	2.0*	.80Δ		10		0.0	5.0	33nΔ		495m		0	7	4	74-167		
43	DM54LS160AJ#mil		TTL	3	32M	2.0	0.8				0	7.0	14n		93m	0.4	5	C	4	E03-80	DL16au	
44	DM54LS162AJ#mil		TTL	3	32M	2.0	0.8				0	7.0	14n		93m	0.4	5	C	4	E03-80	DL16au	
45	DM74LS160AN		TTL	3	32M	2.0	0.8				0	7.0	14n		93m	0.4	0	7	4	E03-80	DL16a	
46	DM74LS162AN		TTL	3	32M	2.0	0.8				0	7.0	14n		93m	0.4	0	7	4	E03-80	DL16a	
47	DM74LS163AN		TTL	3	32M	2.0	0.8				0	7.0	14n		93m	0.4	0	7	4	E03-80	DL16a	
48#	HD74LS90		TTL	3	32M	2.0*	.80Δ		6		0.0	5.0	21n	15n#	400m	300m	2	7	1	E03-79	DL14cz	
49#	HD74LS90P		TTL	3	32M	2.0*	.80Δ		6		0.0	5.0	21n	15n#	400m	300m	2	7	1	E03-79	DL14cz	
50	SN29310J		TTL	3	32M\$†	2.0*	.80Δ				0.0	5.0	21n		400m	300m	2	7	1	74-160N	DL16v	
51	SN29310N		TTL	3	32M\$†	2.0*	.80Δ				0.0	5.0	35nΔ		315m%	300m	0	7	1	74-160N	DL16i	
52	SN29310U		TTL	3	32M\$†	2.0*	.80Δ				0.0	5.0	35nΔ		315m%	300m	0	7	1	74-160N	DL16i	
53	74LS190PC		TTL	3	35M	2.0*	.80Δ		8	5	0.0	5.0	36nΔ		315m%	300m	5	C	1	74-160N	DL16b	
54	DM7555J#mil		TTL	3	35M	2.0	0.8				0.0	7.0	16n		45m	0.4	5	C	4	E03-68	DL14g	
55	DM7555W#mil		TTL	3	35M	2.0	0.8				0.0	7.0	16n		45m	0.4	5	C	4	E03-68	FP97c	
56	DM8310N		TTL	3	35M	2.0	0.8		6	2	0.0	5.0	50nΔ		75m%	300m	5	C	1	74-290N	TO116	
57	DM8310J#mil		TTL	3	35M	2.0	0.8		6	2	0.0	5.0	50nΔ		75m%	300m	5	C	1	54-290W	TO86	
58	DM9310W#mil		TTL	3	35M	2.0	0.8		6	5	0.0	5.0	50nΔ		75m%	300m	0	7	1	74-290N	TO116	
59	DM54160AJ#mil		TTL	3	35M	2.0	0.8				0.0	5.0	20n		160m%	300m	0	7	1	74-290N	TO116	
60	DM54160AW#mil		TTL	3	35M	2.0	0.8				0.0	5.0	20n		160m%	300m	0	7	1	74-290N	TO116	
61	DM54162AJ#mil		TTL	3	35M	2.0	0.8				0.0	5.0	20n		160m%	300m	0	7	1	74-290N	TO116	
62	DM74160AN		TTL	3	35M	2.0	0.8				0.0	7.0	14n		315m	0.4	5	C	4	E03-53	DL16au	
63	DM74162AN		TTL	3	35M	2.0	0.8				0.0	7.0	14n		315m	0.4	0	7	4	E03-80	DL16a	
64	DM74163AN		TTL	3	35M	2.0	0.8				0.0	7.0	14n		315m	0.4	0	7	4	E03-80	DL16a	
65	54LS192DM		TTL	3	40M	2.0*	.70Δ															

11. COUNTERS

IN ORDER OF:(1)TECHNOLOGY(2)TYPE OF COUNTER
(3)OPERATING FREQ.(4)TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE	MAX. OPER. FREQ. (Hz)	LOGIC LEVEL		FAN		POWER SUPPLY SPAN		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS		
						MIN. '1' (V)	MAX. '0' (V)	IN	OUT	NEG (V)	POS (V)		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE	
1	SN54LS668J#mil		TTL	3.0		2.0*	0.7Δ	0	11d	0	5.0	40n				0.3	5	C	1		DL16v
2	SN74LS668J#		TTL	3.0		2.0*	0.8Δ	0	22d	0	5.0	40n				0.3	0	7	1		DL16v
3	SN74LS668N#		TTL	3.0		2.0*	0.8Δ	0	22d	0	5.0	40n				0.3	0	7	1		DL16i
4	SN74LS716J		TTL	3.0	8.0MT	2.0*	0.8Δ	0	8	0	5.0	45nΔ			250m	0.3	0	7	4		DL16aw
5	SN74LS716N		TTL	3.0	8.0MT	2.0*	0.8Δ	0	8	0	5.0	45nΔ			250m	0.3	0	7	4		DL16i
6	SN74LS718J		TTL	3.0	8.0MT	2.0*	0.8Δ	0	8	0	5.0	78nΔ			250m	0.3	0	7	4	E03-91	DL16aw
7	SN74LS718N		TTL	3.0	8.0MT	2.0*	0.8Δ	0	8	0	5.0	78nΔ			250m	0.3	0	7	4	E03-91	DL16i
8	SN54ALS696J#mil		TTL	3.0	20M\$	2.0*	0.8Δ			0	5.0	40n				0.4	5	C	8	E03-94	DL16dn
9	SN54ALS696J#mil		TTL	3.0	20M\$	2.0*	0.8Δ			0	5.0	40n				0.4	5	C	8	E03-95	DL16dn
10	SN74ALS696J#ai		TTL	3.0	20M\$	2.0*	0.8Δ			0	5.0	40n				0.3	0	7	8	E03-94	DL16dn
11	SN74ALS697J#ai		TTL	3.0	20M\$	2.0*	0.8Δ			0	5.0	40n				0.3	0	7	8	E02-203	DL16dn
12	SN74ALS698J#ai		TTL	3.0	20M\$	2.0*	0.8Δ			0	5.0	40n				0.3	0	7	8	E03-95	DL16dn
13	SN74ALS698N#ai		TTL	3.0	20M\$	2.0*	0.8Δ			0	5.0	40n				0.3	0	7	8	E03-95	DL16do
14	DM54LS90J#mil		TTL	3.8	42M	2.0	0.8			0	7.0	20n			45m	0.4	5	C	4	E03-68	DL14g
15	DM54LS90W#mil		TTL	3.8	42M	2.0	0.8			0	7.0	20n			45m	0.4	5	C	4	E03-68	FP97c
16	DM54LS92J#mil		TTL	3.8	42M		0.8			0	7.0	20n			45m	0.4	5	C	4	E02-34	DL14g
17	DM54LS92W#mil		TTL	3.8	42M		0.8			0	7.0	20n			45m	0.4	5	C	4	E02-34	FP97c
18	DM54LS93J#mil		TTL	3.8	42M		0.8			0	7.0	16n			45m	0.4	5	C	4	E02-53	DL14g
19	DM54LS93W#mil		TTL	3.8	42M		0.8			0	7.0	16n			45m	0.4	5	C	4	E02-53	FP97c
20	DM74LS92N		TTL	3.8	42M		0.8			0	7.0	20n			45m	0.4	5	C	4	E02-34	DL14r
21	DM74LS93N		TTL	3.8	42M		0.8			0	7.0	16n			45m	0.4	5	C	4	E02-53	DL14r
22	DM5490AJ#mil		TTL	3.8	42M		0.8			0	7.0	16n			145m	0.4	5	C	4	E03-68	DL14g
23	DM5492AJ#mil		TTL	3.8	42M		0.8			0	7.0	16n			130m	0.4	5	C	4	E02-34	DL14g
24	DM5492AW#mil		TTL	3.8	42M		0.8			0	7.0	16n			130m	0.4	5	C	4	E02-34	FP97c
25	DM5493AJ#mil		TTL	3.8	42M		0.8			0	7.0	16n			130m	0.4	5	C	4	E02-53	DL14g
26	DM5493AW#mil		TTL	3.8	42M		0.8			0	7.0	16n			130m	0.4	5	C	4	E02-53	FP97c
27	DM7490AN		TTL	3.8	42M		0.8			0	7.0	16n			145m	0.4	0	7	4	E03-68	DL14r
28	DM7492AN		TTL	3.8	42M		0.8			0	7.0	16n			130m	0.4	0	7	4	E02-34	DL14v
29	DM7493AN		TTL	3.8	42M		0.8			0	7.0	16n			130m	0.4	0	7	4	E02-53	DL14r
30	N74LS192F		TTL	3R	25M*	2.0*	0.8Δ	8	20	0.0	5.0	47nΔ			170m	1.0 †	0	7	1	74-192N	DL16aw
31	N74LS192N		TTL	3R	25M*	2.0*	0.8Δ	8	20	0.0	5.0	47nΔ			170m	1.0 †	0	7	1	74-192N	DL16bp
32	N74192F		TTL	3R	25M*	2.0*	0.8Δ	8	10	0.0	5.0	47nΔ			510m	1.0 †	0	7	1	74-192N	DL16aw
33	N74192N		TTL	3R	25M*	2.0*	0.8Δ	8	10	0.0	5.0	47nΔ			510m	1.0 †	0	7	1	74-192N	DL16bp
34	S54LS192F		TTL	3R	25M*	2.0*	0.7Δ	8	10	0.0	5.0	47nΔ			170m	1.0 †	5	C	1	74-192N	DL16aw
35	S54LS192W		TTL	3R	25M*	2.0*	0.7Δ	8	10	0.0	5.0	47nΔ			170m	1.0 †	5	C	1	54-192W	FP47g
36	S54193F		TTL	3R	25M*	2.0*	0.8Δ	8	10	0.0	5.0	47nΔ			445m	1.0 †	5	C	1	74-193N	DL16aw
37	S54193W		TTL	3R	25M*	2.0*	0.8Δ	8	10	0.0	5.0	47nΔ			445m	1.0 †	5	C	1	54-193W	DL16aw
38	DM75LS2W#mil		TTL	3V	11M	2.0	0.7			220n					38m	0.4	5	C	4	E01-78	FP98b
39	SN54176J		TTL	3V	35M\$	2.0*	0.8Δ	8		0.0	5.0	51nΔ			150m†		5	C	1	74-176N	DL14af
40	SN54176W		TTL	3V	35M\$	2.0*	0.8Δ	8		0.0	5.0	51nΔ			150m†		5	C	1	54-176W	MO004AA
41	SN74176J		TTL	3V	35M\$	2.0*	0.8Δ	8		0.0	5.0	51nΔ			150m†		0	7	1	74-176	DL14af
42	SN74176N		TTL	3V	35M\$	2.0*	0.8Δ	8		0.0	5.0	51nΔ			150m†		0	7	1	74-176	DL14r
43	DM54L90W#mil		TTL	4	11M	2.0	0.7			0	8.0				20m	0.4	5	C	1	E01-31	FP97c
44	DM54L93W#mil		TTL	4	15M	2.0	0.7			0	8.0				16m	0.4	5	C	1	E02-35	FP97c
45#	HD74LS390		TTL	4	20M	2.0*	0.8Δ			0.0	5.0	33n	20n#		400m		2	7	2		DL16bc
46#	HD74LS390P		TTL	4	20M	2.0*	0.8Δ			0.0	5.0		20n#		400m		2	7	2		DL16bc
47#	SP8901		TTL	512	1.0G	2.3	1.3	1	1	0.0	5.0	60n					3	7	1	E09-1	DL14dc
48	JANM38510/01301BAA		ITTL	6	10M\$	2.0*	0.8Δ	4	10	0.0	5.5	81nΔ			268m		5	C	1	54-92W	FP115
49	JANM38510/01301BAB		ITTL	6	10M\$	2.0*	0.8Δ	4	10	0.0	5.5	81nΔ			268m		5	C	1	54-92W	FP115
50	JANM38510/01301BCA		ITTL	6	10M\$	2.0*	0.8Δ	4	10	0.0	5.5	81nΔ			268m		5	C	1	74-92N	DL14bo
51	JANM38510/01301BCB		ITTL	6	10M\$	2.0*	0.8Δ	4	10	0.0	5.5	81nΔ			268m		5	C	1	74-92N	DL14bo
52	JANM38510/01301BDA		ITTL	6	10M\$	2.0*	0.8Δ	4	10	0.0	5.5	81nΔ			268m		5	C	1	54-92W	FP116
53	JANM38510/01301BDB		ITTL	6	10M\$	2.0*	0.8Δ	4	10	0.0	5.5	81nΔ			268m		5	C	1	54-92W	FP116
54	JANM38510/01301CAA		ITTL	6	10M\$	2.0*	0.8Δ	4	10	0.0	5.5	81nΔ			268m		5	C	1	54-92W	FP115
55	JANM38510/01301CAB		ITTL	6	10M\$	2.0*	0.8Δ	4	10	0.0	5.5	81nΔ			268m		5	C	1	54-92W	FP115
56	JANM38510/01301CCA		ITTL	6	10M\$	2.0*	0.8Δ	4	10	0.0	5.5	81nΔ			268m		5	C	1	54-92W	FP115
57	JANM38510/01301CCB		ITTL	6	10M\$	2.0*	0.8Δ	4	10	0.0	5.5	81nΔ			268m		5	C	1	74-92N	DL14bo
58	JANM38510/01301CDA		ITTL	6	10M\$	2.0*	0.8Δ	4	10	0.0	5.5	81nΔ			268m		5	C	1	74-92N	DL14bo
59	JANM38510/01301CDB		ITTL	6	10M\$	2.0*	0.8Δ	4	10	0.0	5.5	81nΔ			268m		5	C	1	54-92W	FP116
60#	ZN7492E		TTL	6	18M†	2.0*	0.8Δ	2		0.0	5.0	100nΔ			155m%		0	7	1	74-92N	DL14m
61#	ZN7492F		TTL	6	18M†	2.0*	0.8Δ	2		0.0	5.0	100nΔ			155m%		0	7	1	54-92W	TO86
62	MC4023L.P%		TTL	6	30M†	2.5Δ	40ΔC	8	10	0.0	5.0	16n			200m†		0	7	1	E06-7	TO116
63	5493ADM		TTL	6	32M*	2.0*	0.8Δ	4	20	0.0	5.0	70nΔ			195m		5	C	1	74LS93N	DL14bf
64	5493AFM		TTL	6	32M*	2.0*	0.8Δ	4	20	0.0	5.0	70nΔ			195m		5	C	1	54LS93	FP52
65	7493ADC		TTL	6	32M*	2.0*	0.8Δ	4	10	0.0	5.0	70nΔ			195m		0	7	1	74LS93N	DL14bf
66	7493APC		TTL	6	32M*	2.0*	0.8Δ	4	10	0.0	5.0	70nΔ			195m		0	7	1	74LS93N	DL14ce
67	DM7493N		TTL	6	32M†	2.0*	0.8Δ	6		0.0	5.0	80nΔ			225m%		0	7	1	74LS93N	DL14bt
68	9319FM		TTL	6	35M†	2.0*	0.8Δ	5	20	0.0	5.0	50nΔ			300m		5	C	5		FP93c
69	9319PC		TTL	6	35M†	2.0*	0.8Δ	5	20	0.0	5.0	50nΔ			300m		0	7	5	E06-28	
70	9320FM		TTL	6	35M†	2.0*	0.8Δ	5	3	0.0	5.0	50nΔ			300m		5	C	5	E06-28	FP93c
71	54176DM		TTL	6	35M*	2.0*	0.8Δ	4	20	0.0	5.0	75nΔ			240m		5	C	4	74-176N	DL14bf
72	54176FM		TTL	6	35M†	2.0*	0.8Δ	4	20	0.0	5.0	75nΔ			240m		5	C	4	54-176W	FP52
73	74176DC		TTL	6	35M*	2.0*	0.8Δ	4	20	0.0	5.0	75nΔ			240m		0	7	4	74-176N	DL14bf
74	74176PC		TTL	6	35M*	2.0*	0.8Δ	4	10	0.0	5.0</										

11. COUNTERS

IN ORDER OF:(1)TECHNOLOGY(2)TYPE OF COUNTER
(3)OPERATING FREQ.(4)TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE	MAX. OPER. FREQ. (Hz)	LOGIC LEVEL		IN	OUT MAX	POWER SUPPLY SPAN		PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS		
						MIN. *1 (V)	MAX. *0 (V)			NEG (V)	POS (V)		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE	
1	93L66DM		TTL	7	23M†	2.0*	.70Δ	10		0.0	5.0	75nΔ			85m†		5	C	1	74-193N	DL16bd
2	93L66FM		TTL	7	23M†	2.0*	.70Δ	10		0.0	5.0	75nΔ			85m†		5	C	1	74-193N	DL16ce
3	93L66PC		TTL	7	23M†	2.0*	.70Δ	10		0.0	5.0	75nΔ			85m†		0	7	1	54-193W	FP79b
4	AM2501DC		TTL	7	27M†	1.7*	.85Δ	14		0.0	5.0	60nΔ			480m%		0	7	1	E01-46	DL24t
5	AM2501DM		TTL	7	27M†	1.7*	.85Δ	14		0.0	5.0	60nΔ			455m%		5	C	1	E01-46	DL24t
6	N8284A		TTL	7	30M†	2.0*	.80Δ	6	12	0.0	5.0		5.0n	5.0n	360m		0	7	1	E02-51	DL14bu
7	N8284F		TTL	7	30M†	2.0*	.80Δ	6	12	0.0	5.0				360m		0	7	1	E02-51	DL14bj
8	S8284F		TTL	7	30M†	2.0*	.80Δ	6	12	0.0	5.0				360m		5	C	1	E02-51	DL14bj
9	9366DC		TTL	7	32M†	2.0*	.80Δ	8	6	0.0	5.0	47nΔ			510m%		0	7	1	74-193N	DL16bd
10	9366DM		TTL	7	32M†	2.0*	.80Δ	8	6	0.0	5.0	47nΔ			445m%		5	C	1	74-193N	DL16bd
11	9366FM		TTL	7	32M†	2.0*	.80Δ	8	6	0.0	5.0	47nΔ			445m%		5	C	1	54-193W	FP79b
12	9366PC		TTL	7	32M†	2.0*	.80Δ	8	6	0.0	5.0	47nΔ			510m%		0	7	1	74-193N	DL16ce
13#	HD10136		TTL	7.0	150M†	-.81	-.19			8.0	0	2.0n	3.5n	3.5n	25m†		3	8	1	E07-3	DL16J
14#	K155IE4		TTL	8		2.4	0.4		10		5.0						1	7	1		
15	N7492F		TTL	8	10M*	2.0*	.80Δ	4	10	0.0	5.0	100nΔ			255m	1.0 †	0	7	1	74-92N	DL14bh
16	N7492N		TTL	8	10M*	2.0*	.80Δ	4	10	0.0	5.0	100nΔ			255m		0	7	1	74-92N	DL14br
17	S5492F		TTL	8	10M*	2.0*	.80Δ	4	10	0.0	5.0	100nΔ			220m	1.0 †	5	C	1	74-92N	DL14bh
18	S5492W		TTL	8	10M*	2.0*	.80Δ	4	10	0.0	5.0	100nΔ			220m	1.0 †	5	C	1	54-92W	FP39e
19	N74LS92F		TTL	8	16M*	2.0*	.80Δ	4	20	0.0	5.0	50nΔ			75m		0	7	1	74-92N	DL14bh
20	N74LS92N		TTL	8	16M*	2.0*	.80Δ	4	20	0.0	5.0	50nΔ			75m		0	7	1	74-92N	DL14br
21	S54LS92F		TTL	8	16M*	2.0*	.70Δ	4		0.0	5.0	50nΔ			75m		5	C	1	74-92N	DL14bh
22	S54LS92W		TTL	8	16M*	2.0*	.70Δ	4		0.0	5.0	50nΔ			75m		5	C	1	54-92W	FP39e
23	JANM38510/31510BCB		TTL	8	29M	2.0*	.70Δ	4	10d	0.0	5.0	81nΔ			83m		5	C	1	74-92N	DL14bo
24	JANM38510/31510CCB		TTL	8	29M	2.0*	.70Δ	4	10d	0.0	5.0	81nΔ			83m		5	C	1	74-92N	DL14bo
25	54LS92FM		TTL	8	32M*	2.0*	.70Δ	4	5	0.0	5.0	18nΔ			75m%	300m	5	C	1	54-92W	FP52
26	74LS92PC		TTL	8	32M	2.0*	.80Δ	4	5	0.0	5.0	18nΔ			75m%	300m	0	7	1	74-92N	TO116
27	5492ADM		TTL	8	32M*	2.0*	.80Δ	4	20	0.0	5.0	50nΔ			195m		5	C	1	74-92N	DL14bf
28	5492AFM		TTL	8	32M*	2.0*	.80Δ	4	20	0.0	5.0	50nΔ			195m		5	C	1	54-92W	FP52
29	7492ADC		TTL	8	32M*	2.0*	.80Δ	4	10	0.0	5.0	50nΔ			195m		0	7	1	74-92N	DL14bf
30	7492APC		TTL	8	32M*	2.0*	.80Δ	4	10	0.0	5.0	50nΔ			195m		0	7	1	74-92N	DL14ce
31#	HD74LS92		TTL	8	32M	2.0*	.80Δ	4		0.0	5.0	19n	15n#		400m	300m	2	7	4		DL14cz
32#	HD74LS92P		TTL	8	42M	2.0*	0.8Δ	4	10	0.0	5.0	50nΔ	15n#		84m	0.7	2	7	4		DL14cz
33	SN54LS92J		TTL	8F	16M*	2.0*	.70Δ	4	10	0.0	5.0	50nΔ			45m†	1.0 †	5	C	1	74-92N	DL14af
34	SN54LS92W		TTL	8F	16M*	2.0*	.70Δ	4	10	0.0	5.0	50nΔ			45m†	1.0 †	5	C	1	54-92W	MO004AA
35	SN74LS92J		TTL	8F	16M*	2.0*	.80Δ	4	10	0.0	5.0	50nΔ			45m†	1.0 †	0	7	1	74-92N	DL14af
36	SN74LS92N		TTL	8F	16M*	2.0*	.80Δ	4	10	0.0	5.0	50nΔ			45m†	1.0 †	0	7	1	74-92N	DL14r
37	SN5492AJ		TTL	8F	16M*	2.0*	.80Δ	4	10	0.0	5.0	50nΔ			130m†	1.0 †	5	C	1	74-92N	DL14af
38	SN5492AW		TTL	8F	16M*	2.0*	.80Δ	4	10	0.0	5.0	50nΔ			130m†	1.0 †	5	C	1	54-92W	MO004AA
39	SN7492AJ		TTL	8F	16M*	2.0*	.80Δ	4	10	0.0	5.0	50nΔ			130m†	1.0 †	0	7	1	74-92N	DL14af
40	SN7492AN		TTL	8F	16M*	2.0*	.80Δ	4	10	0.0	5.0	50nΔ			130m†	1.0 †	0	7	1	74-92N	DL14r
41#	ZN5492AE		TTL	8F	16M*	2.0*	.80Δ	4	10	0.0	5.0	50nΔ			130m†	1.0 †	5	C	1	74-92N	TO116
42#	ZN5492AJ		TTL	8F	16M*	2.0*	.80Δ	4	10	0.0	5.0	50nΔ			130m†	1.0 †	5	C	1	74-92N	DL14ap
43#	ZN7492AE		TTL	8F	16M*	2.0*	.80Δ	4	10	0.0	5.0	50nΔ			130m†	1.0 †	0	7	1	74-92N	TO116
44#	ZN7492AJ		TTL	8F	16M*	2.0*	.80Δ	4	10	0.0	5.0	50nΔ			130m†	1.0 †	0	7	1	74-92N	DL14ap
45#	M74LS92P		TTL	8F	50M†	2.0*	.80Δ	4	20	0.0	5.0	50nΔ	15n#		45m†	400m*	2	7	1	74-92	DL14cf

12. CLOCKS/MULTIVIBRATORS

IN ORDER OF:(1)TECHNOLOGY(2)TYPE OF MULTI-VIBRATOR(3)OPER.FREQ.(4)TYPE NO.

LINE NO.	TYPE NO.	DATA SHT.	TECH	T M P V E	3 MAX. OPER. FREQ (Hz)	LOGIC LEVEL		FAN		POWER SUPPLY SPAN		MIN. DELAY (S)	RISE TIME (S)	FALL TIME (S)	MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS		
						MIN. '1' (V)	MAX. '0' (V)	IN	OUT MAX.	NEG (V)	POS (V)								LOGIC OR BLOCK	OUTLINE	
1#	OM802#2			1						0.0	6.0				165m		5	C	1	J05-109	CN71c
2	XR2242CN#2			3	1.0M†	15	40ΔC	2	2a	0.0	5.0	1.0u	180n†	180n†	385m		0	7	1	J06-8	DL2
3	XR2242CP#2			3	1.0M†	15	40ΔC	2	2a	0.0	5.0	1.0u	180n†	180n†	300m		0	7	1	J06-8	DL2
4	XR2242M#2			3	1.0M†	15	40ΔC	2	2a	0.0	5.0	1.0u	180n†	180n†	385m		5	C	1	J06-8	DL2
5#	SAJ250A			4	32k\$	.90	3.0			0.0	3.0						1	6	1	C04-35	TO99
6#	SAJ250B			4	32k\$	.90	3.0			0.0	3.0						1	6	1	C04-35	DL8a
7	MC6875AL			4	1.0M†	2.0	.80			0.0	5.0	25nΔ	180m#				5	C	1	C04-50	DL16m
8	MC6875L			4	1.0M†	2.0	.80			0.0	5.0	25nΔ	180m#				0	7	1	C04-50	DL16m
9	WD2143L01			4	3.0M	2.4	.80			0.0	5.0	100nΔ	30n	25n	1.0		0	7	4	C04-51	DL18q
10	WD2143M01			4	3.0M	2.4	.80			0.0	5.0	100nΔ	30n	25n	1.0		0	7	4	C04-51	DL18r
11#	M58434P			4	4.1M					0.0	1.9				300m		2	7		C04-49	DL8i
12#	M58435P			4	4.1M					0.0	1.9				300m		2	7		C04-49	DL8i
13#	M58436-001P			4	4.1M					0.0	1.9				300m		2	7		C04-49	DL8i
14#	M58437-001P			4	4.1M					0.0	1.9				300m		2	7		C04-49	DL8i
15	LM175D			4	6C 200M†	2.1*	40Δ	2		0.0	5.0		50n	50n	500m		5	C	3	C06-13	DL14bi
16	LM275D			6C	200M†	2.1*	40Δ	2		0.0	5.0		50n	50n	500m		2	8	3	C06-13	DL14bi
17	LM375D			6C	200M†	2.1*	40Δ	2		0.0	5.0		50n	50n	500m		0	7	3	C06-13	DL14bi
18	LM375N			6C	200M†	2.1*	40Δ	2		0.0	5.0		50n	50n	500m		0	7	3	C06-13	DL14t
19	4047BDC		CMS	1		11*	4.0Δ	6	25e	0.0	15	45nΔ			9.0m%	6.7 †	4	8	1	40-47	TO116
20	4047BDM		CMS	1		11*	4.0Δ	6	25e	0.0	15	45nΔ			9.0m%	6.7 †	5	C	1	40-47	TO116
21	4047BFC		CMS	1		11*	4.0Δ	6	25e	0.0	15	45nΔ			9.0m%	6.7 †	4	8	1	40-47	FP21h
22	4047BFM		CMS	1		11*	4.0Δ	6	25e	0.0	15	45nΔ			9.0m%	6.7 †	5	C	1	40-47	FP21h
23	4047BPC		CMS	1		11*	4.0Δ	6	25e	0.0	15	45nΔ			9.0m%	6.7 †	4	8	1	40-47	DL14ce
24	CD4047BCJ		CMS	1		11*	4.0Δ	7	16e	0.0	15	400nΔ			1.2m%	6.7 †	4	8	1	40-47	DL14az
25	CD4047BCN		CMS	1		11*	4.0Δ	7	16e	0.0	15	400nΔ			1.2m%	6.7 †	4	8	1	40-47	DL14bt
26	CD4047BMJ		CMS	1		11*	4.0Δ	7	19e	0.0	15	400nΔ			300u%	6.7 †	5	C	1	40-47	DL14az
27	CD4047BMW		CMS	1		11*	4.0Δ	7	19e	0.0	15	400nΔ			300u%	6.7 †	5	C	1	40-47	FP97c
28	CM4047AD		CMS	1		10	0.0	7		0.0	15	150n			200m	4.5 †	5	C	1	C01-15	DL2
29	CM4047AE		CMS	1		10	0.0	7		0.0	15	150n			200m	4.5 †	4	8	1	C01-15	DL2
30	CM4047AF		CMS	1		10	0.0	7		0.0	15	150n			200m	4.5 †	5	C	1	C01-15	FP2
31#	HBC4047AD		CMS	1		10	0.0C	7	5.0	15	150n				100u%	4.5 †	5	C	1	40-47	MO001AD
32#	HBC4047AK		CMS	1		10	0.0C	7	5.0	15	150n				100u%	4.5 †	5	C	1	40-47	MO004AF
33#	HBF4047AE		CMS	1		10	0.0C	7	5.0	15	150n				1.0m%	4.5 †	4	8	1	40-47	MO001AB
34#	HEF4047		CMS	1		11*	4.0Δ	7	16	0.0	15				400m	6.7 †	4	8	1	C01-30	DL2
35#	HEF4047B		CMS	1		9.95*	.05ΔC	6	2.4e	0.0	10				100u%		4	8	1	40-47	TO116
36#	TC4047BP		CMS	1		14.9*	.05ΔC	7		0.0	15	500nΔ	160n	80n	300m	4.0	4	8	1	40-47	DL14ch
37#	MN6053		CMS	1	4.1M				0	1.5					300m		3	7		C01-27	DL8f
38#	MN6054		CMS	1	4.1M				0	1.5					300m		3	7		C01-27	DL8a
39#	MN6056		CMS	1	4.1M				0	1.5					300m		2	8		C01-32	DL8f
40#	MN6057		CMS	1	4.1M				0	1.5					300m		3	7		C01-34	DL8a
41#	MN6058		CMS	1	4.1M				0	1.5					300m		3	7		C01-32	DL8a
42#	MN6059		CMS	1	4.1M				0	1.5					300m		3	7		C01-36	DL8a
43#	MN6091		CMS	1	4.1M					0.0	1.5				300m		3	7		C01-29a	DL8f
44#	MN6092		CMS	1	4.1M					0.0	1.5				300m		3	7		C01-29	DL8f
45#	MN6092A		CMS	1	4.1M					0.0	1.5				300m		2	7		C01-29	DL8f
46#	MN6093		CMS	1	4.1M				0	12					300m		-	8		C01-35	DL8a
47#	MN6250		CMS	1	4.1M				0	1.5					300m		3	7		C01-34	DL8a
48#	MN6251		CMS	1	4.1M				0	1.5					300m		3	7		C01-32	DL8a
49#	HCC4047BD		CMS	1.8		11*	4.0Δ		0.0	18	150n	20n†	20n†	200m	2.5 *	5	C	1	40-47	DL14cv	
50#	HCC4047BF		CMS	1.8		11*	4.0Δ		0.0	18	150n	20n†	20n†	200m	2.5 *	5	C	1	40-47	DL14bd	
51#	HCC4047BK		CMS	1.8		11*	4.0Δ		0.0	18	150n	20n†	20n†	200m	2.5 *	5	C	1	40-47	FP130	
52#	HCF4047BE		CMS	1.8		11*	4.0Δ		0.0	18	150n	20n†	20n†	200m	2.5 *	4	8	1	40-47	DL14w	
53#	HCF4047BF		CMS	1.8		11*	4.0Δ		0.0	18	150n	20n†	20n†	200m	2.5 *	4	8	1	40-47	DL14bd	
54	CD4047AD		CMS	3		10	0.0C	7		0.0	10	500nΔ			100u%	4.5 †	5	C	1	40-47	MO001AD
55	CD4047AE		CMS	3		10	0.0C	7		0.0	10	250nΔ			1.0m%	4.5 †	4	8	1	40-47	MO001AB
56	CD4047AF		CMS	3		10	0.0C	7		0.0	10	500nΔ			100u%	4.5 †	5	C	1	40-47	MO001AB
57	CD4047BD		CMS	3	100k†	11*	4.0Δ	6	18e	0.0	15	70n	5.0u†	5.0u†	500m	4.0 *	5	C	1	C01-15a	MO001AD
58	CD4047BE		CMS	3	100k†	11*	4.0Δ	6	18e	0.0	15	70n	5.0u†	5.0u†	500m	4.0 *	4	8	1	40-47	MO001AB
59	CD4047BF		CMS	3	100k†	11*	4.0Δ	6	18e	0.0	15	70n	5.0u†	5.0u†	500m	4.0 *	5	C	1	40-47	MO001AB
60#	HD14538B		CMS	4		3.5	1.5		9.4e	0.0	18	200n	200n	300m			4	8	2	C04-52	DL16p
61	ICM7209IPA		CMS	4	2M*	4.0*	.40Δ		5	0.0	5.0				300m	2.0	2	7	1	C04-46	DL8aa
62	ICM7050IPA		CMS	4	4.2M†					0.0	1.5				300m		2	7	1	C04-48	DL8aa
63	ICM7213IPD		CMS	4	10M†					0.0	3.0				500u%		2	7	1	C04-47	DL16bn
64	ICM7207AIPD		CMS	7	10M					0.0	5.0				5m		2	7	1	C07-08a	DL16bn
65	CD4538BD		CMS	8		3.5	1.5	6	37e	0.0	20	300n	35n#		500m		5	C	2	C08-11	MO001ae
66	CD4538BE		CMS	8		3.5	1.5	6	37e	0.0	20	300n	35n#		500m		4	8	2	C08-11	MO001ac
67	CD4538BF		CMS	8		3.5	1.5	6	37e	0.0	20	300n	35n#		500m		5	C	2	C08-11	MO001ac
68	SCL4047B		CMS	8	1.0M	15.3*	.45Δ			0.0	12	200nΔ	20n		500m	4.0	5	C	1	40-47B	DL2
69#	H227B1		DTL	1		8.0*	6.0Δ	2	25	0.0	16	1.0uΔ			500m%	5.0	0	7	1	C01-14	DL14by
70#	SP1658		ECL	1	190M	.96*	1.62ΔC	3		5.2	0.0		3.5n	3.0n		960m	3	8	1	C01-16	DL16DM
71#	SP1648		ECL	6	225M	4.04*	3.43ΔC	2		0.0	5.0				150m†	2.0	3	8	1	C06-12	DL14dc
72	MC1658F		ECT	1	175M	.96*	-1.6ΔC	3		5.2	0.0		2.7n	2.7n			3	8	1	C01-16	FP85
73	MC1658L		ECT	1	175M	.96*	-1.6ΔC	3		5.2	0.0		2.7n	2.7n			3	8	1	C01-16	DL16aj
74	MC1658P		ECT	1	175M	.96*	-1.6ΔC	3		5.2	0.0		2.7n	2.7n			3	8	1	C01-16	DL16bo
75	MC1648F#1		ECT	6	225M†	4.04*	3.43ΔC	2		0.0	5.0				150m†		3	8	1	C06-12	TO86
76	MC1648F#2		ECT	6	225M†	.96*	-1.6ΔC	2		5.2	0.0				150m†		3	8	1	C06-12	TO86
77	MC1648L.P#1%		ECT	6	225M†	4.04*	3.43ΔC	2		0.0											

12. CLOCKS/MULTIVIBRATORS

IN ORDER OF: (1) TECHNOLOGY (2) TYPE OF MULTI-VIBRATOR (3) OPER. FREQ. (4) TYPE NO.

LINE NO.	TYPE NO.	DATA SHT.	TECH	TYP E	M V	3 MAX. OPER. FREQ. (Hz)	LOGIC LEVEL		FAN		POWER SUPPLY		MIN. DELAY (S)	MAXIMUM		MAX. OPER. DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS	
							MIN. '1' (V)	MAX. '0' (V)	IN	OUT MAX.	NEG (V)	POS (V)		RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE
1	MC12060L		TTL	4	2.0M	2.4*	.50ΔC	2		0.0	5.0	4.3n	4.0n	4.0n			0	7	1	C04-37	DL16aj
2	MC12060P		TTL	4	2.0M	2.4*	.50ΔC	2		0.0	5.0	4.3n	4.0n	4.0n			0	7	1	C04-37	DL16bo
3	MC12560L		TTL	4	2.0M	2.4*	.50ΔC	2		0.0	5.0	4.3n	4.0n	4.0n			0	7	1	C04-37	DL16ai
4	CP2143		TTL	4	3.0M	2.4*	.40Δ	2		0.0	5.0	100nΔ	30n	25n	500u		0	7	1	C04-48	
5	MC12061L		TTL	4	20M	2.4*	.50ΔC	2		0.0	5.0	4.3n	4.0n	4.0n			0	7	1	C04-37	DL16aj
6	MC12061P		TTL	4	20M	2.4*	.50ΔC	2		0.0	5.0	4.3n	4.0n	4.0n			0	7	1	C04-37	DL16bo
7	MC12561L		TTL	4	20M	2.4*	.50ΔC	2		0.0	5.0	4.3n	4.0n	4.0n			5	5	1	C04-37	DL16aj
8	SN54LS320J		TTL	4	20M	2.0*	.70Δ	5	33d	0.0	5.0		24n	12n	40m		5	5	1	74LS320	DL16v
9	SN54LS320W		TTL	4	20M	2.0*	.70Δ	5	33d	0.0	5.0		24n	12n	40m		5	5	1	54LS320	MO004AG
10	SN54LS321J		TTL	4	20M	2.0*	.70Δ	5	33d	0.0	5.0		24n	12n	40m		5	5	1	74LS321	DL16v
11	SN54LS321W		TTL	4	20M	2.0*	.70Δ	5	33d	0.0	5.0		24n	12n	40m		5	5	1	54LS321	MO004AG
12	SN74LS320J		TTL	4	20M	2.0*	.80Δ	5	66d	0.0	5.0		24n	12n	40m		0	7	1	74LS320	DL16v
13	SN74LS320N		TTL	4	20M	2.0*	.80Δ	5	66d	0.0	5.0		24n	12n	40m		0	7	1	74LS320	DL16i
14	SN74LS321J		TTL	4	20M	2.0*	.80Δ	5	66d	0.0	5.0		24n	12n	40m		0	7	1	74LS321	DL16v
15	SN74LS321N		TTL	4	20M	2.0*	.80Δ	5	66d	0.0	5.0		24n	12n	40m		0	7	1	74LS321	DL16i
16	SN74LS424J		TTL	4	20M†	2.0*	.80Δ	4		0.0	12		20n	20n	719m%		0	7	1	74LS424	DL16v
17	SN74LS424N		TTL	4	20M†	2.0*	.80Δ	4		0.0	12		20n	20n	719m%		0	7	1	74LS424	DL16i
18	SN54LS325J		TTL	7	11M*	2.0*	.70Δ	1		0.0	5.0	30n			150m%	1.0 †	5	5	2	74LS325	DL16v
19	SN54LS325W		TTL	7	11M*	2.0*	.70Δ	1		0.0	5.0	30n			150m%	1.0 †	5	5	2	54LS325	MO004AG
20	SN54LS326J		TTL	7	11M*	2.0*	.70Δ	2		0.0	5.0	30n			250m%	1.0 †	5	5	2	74LS326	DL16v
21	SN54LS326W		TTL	7	11M*	2.0*	.70Δ	2		0.0	5.0	30n			250m%	1.0 †	5	5	2	54LS326	MO004AG
22	SN54LS327J		TTL	7	11M*	2.0*	.70Δ	1		0.0	5.0	30n			150m%	1.0 †	5	5	2	74LS327	DL16v
23	SN54LS327W		TTL	7	11M*	2.0*	.70Δ	1		0.0	5.0	30n			150m%	1.0 †	5	5	2	54LS327	MO004AG
24	SN54LS324J		TTL	7	20M	2.0*	.70Δ			0.0	5.0	30n			90m†		5	5	1	74LS324	DL14af
25	SN54LS324W		TTL	7	20M	2.0*	.70Δ			0.0	5.0	30n			90m†		5	5	1	54LS324	FP97a
26	SN54LS624J		TTL	7	20M	2.0	0.7			0.0	5.0	90n			.18	.5	5	5	1	C07-2	
27	SN54LS624W		TTL	7	20M	2.0	0.7			0.0	5.0	90n			.18	.5	5	5	1	C07-2	
28	SN54LS625J		TTL	7	20M	2.0	0.7			0.0	5.0	90n			.28	.5	5	5	2	C07-3	
29	SN54LS625W		TTL	7	20M	2.0	0.7			0.0	5.0	90n			.28	.5	5	5	2	C07-3	
30	SN54LS626J		TTL	7	20M	2.0	0.7			0.0	5.0	90n			.28	.5	5	5	2	C07-4	
31	SN54LS626W		TTL	7	20M	2.0	0.7			0.0	5.0	90n			.28	.5	5	5	2	C07-4	
32	SN54LS627J		TTL	7	20M	2.0	0.7			0.0	5.0	90n			.28	.5	5	5	2	C07-5	
33	SN54LS627W		TTL	7	20M	2.0	0.7			0.0	5.0	90n			.28	.5	5	5	2	C07-5	
34	SN54LS628J		TTL	7	20M	2.0	0.7			0.0	5.0	90n			.18	.5	5	5	1		
35	SN54LS628W		TTL	7	20M	2.0	0.7			0.0	5.0	90n			.18	.5	5	5	1		
36	SN54LS629J		TTL	7	20M	2.0	0.7			0.0	5.0	90n			.28	.5	5	5	2	C07-01	
37	SN54LS629W		TTL	7	20M	2.0	0.7			0.0	5.0	90n			.28	.5	5	5	2	C07-01	
38	SN74LS624J		TTL	7	20M	2.0	0.8			0.0	5.0	90n			.18	.7	0	7	1		
39	SN74LS624N		TTL	7	20M	2.0	0.8			0.0	5.0	90n			.18	.7	0	7	1		
40	SN74LS625J		TTL	7	20M	2.0	0.8			0.0	5.0	90n			.28	.7	0	7	2		
41	SN74LS625N		TTL	7	20M	2.0	0.8			0.0	5.0	90n			.28	.7	0	7	2		
42	SN74LS626J		TTL	7	20M	2.0	0.8			0.0	5.0	90n			.28	.7	0	7	2		
43	SN74LS626N		TTL	7	20M	2.0	0.8			0.0	5.0	90n			.28	.7	0	7	2		
44	SN74LS627J		TTL	7	20M	2.0	0.8			0.0	5.0	90n			.28	.7	0	7	2		
45	SN74LS627N		TTL	7	20M	2.0	0.8			0.0	5.0	90n			.28	.7	0	7	2		
46	SN74LS628J		TTL	7	20M	2.0	0.8			0.0	5.0	90n			.18	.7	0	7	1		
47	SN74LS628N		TTL	7	20M	2.0	0.8			0.0	5.0	90n			.18	.7	0	7	2		
48	SN74LS629J		TTL	7	20M	2.0	0.8			0.0	5.0	90n			.28	.7	0	7	2	C07-01	
49	SN74LS629N		TTL	7	20M	2.0	0.8			0.0	5.0	90n			.28	.7	0	7	2	C07-01	
50	SN54LS124J		TTL	7	30M†	2.0*	.70Δ	5	30	0.0	5.0	30n			250m	300m	5	5	2	74LS124	DL16v
51	SN54LS124W		TTL	7	30M†	2.0*	.70Δ	5	30	0.0	5.0	30n			250m	300m	5	5	2	54LS124	MO004AG
52	SN74LS124J		TTL	7	30M†	2.0*	.80Δ	5	60	0.0	5.0	30n			250m	400m	0	7	2	74LS124	DL16v
53	SN74LS124N		TTL	7	30M†	2.0*	.80Δ	5	60	0.0	5.0	30n			250m	400m	0	7	2	74LS124	DL16i
54	SN54S124J		TTL	7	60M	2.0*	.80	5	30	0.0	5.0	70n			525m†	300m	5	5	2	74LS124	DL16v
55	SN54S124W		TTL	7	60M	2.0*	.80	5	30	0.0	5.0	70n			525m†	300m	5	5	2	54LS124	MO004AG
56	SN74S124J		TTL	7	60M	2.0*	.80Δ	5	60	0.0	5.0	70n			525m†	400m	0	7	2	74LS124	DL16v
57	SN74S124N		TTL	7	60M	2.0*	.80Δ	5	60	0.0	5.0	70n			525m†	400m	0	7	2	74LS124	DL16i
58	9600DC		TTL	8		2.0*	.80Δ	4	24	0.0	5.0	40n			130m%		0	7	3	C08-01	DL14av
59	9600DC#		TTL	8		2.0*	.80Δ	4	24	0.0	5.0	40n			130m%		0	7	3	C08-01	DL14bf
60	9600DM		TTL	8		2.0*	.80Δ	4	24	0.0	5.0	40n			130m%		5	5	3	C08-01	DL14bf
61	9600DM#		TTL	8		2.0*	.80Δ	4	24	0.0	5.0	40n			130m%		5	5	3	C08-01	DL14bf
62	9600FM		TTL	8		2.0*	.80Δ	4	24	0.0	5.0	40n			130m%		5	5	3	C08-01	FP52
63	9600PC		TTL	8		2.0*	.80Δ	4	24	0.0	5.0	40n			130m%		0	7	3	C08-01	DL14ce
64	9601PC		TTL	8		2.0*	.80Δ	5	24	0.0	5.0	40n			125m		0	7	2	C08-02	DL14ce
65#	HD74LS122		TTL	8		2.0Δ	.80*	5	5	0.0	5.0	42nΔ	40n#		400m	300m	2	7	1	C08-09	DL14cz
66#	HD74LS122P		TTL	8		2.0Δ	.80*	5	5	0.0	5.0	42nΔ	40n#		400m	300m	2	7	1	C08-09	DL14cz
67#	HD74LS123		TTL	8		2.0Δ	.80*	6	6	0.0	5.0	42nΔ	40n#		400m	300m	2	7	2	C08-12	DL16bc
68#	HD74LS123P		TTL	8		2.0Δ	.80*	6	6	0.0	5.0	42nΔ	40n#		400m	300m	2	7	2	C08-12	DL16bc
69	SN54LS422J		TTL	8		2.0*	.70Δ			0.0	5.0	28n	40n#				5	5	1	74-422	DL16c
70	SN54LS422W		TTL	8		2.0*	.70Δ			0.0	5.0	28n	40n#				5	5	1		
71	SN54LS423J		TTL	8		2.0*	.70Δ			0.0	5.0	28n	40n#				5	5	2	C08-10	DL16c
72	SN54LS423W		TTL	8		2.0*	.70Δ			0.0	5.0	28n	40n#				5	5	2	C08-10	DL16c
73	SN74LS422J		TTL	8		2.0*	.80Δ			0.0	5.0	28n	40n#				0	7	1	C08-09	DL16c
74	SN74LS422N		TTL	8		2.0*	.80Δ			0.0	5.0	28n	40n#				0	7	1	C08-09	DL16c
75	SN74LS423J		TTL	8		2.0*	.80Δ			0.0	5.0	28n	40n#				0	7	2	C08-10	DL16c
76	SN74LS423N		TTL	8		2.0*	.80Δ			0.0	5.0	28n	40n#				0	7	2	C08-10</	

13. FREQUENCY DIVIDERS

IN ORDER OF: (1) TECHNOLOGY (2) TYPE CODE (3) MAX. DIVISOR (4) MAX. FREQ. (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE CODE	MAXIMUM DIVISOR	MAX. OPER. FREQ. (Hz)	N	S	O	T	LOGIC LEVEL		MINIMUM SINK CURRENT		POWER SUPPLY SPAN		MAX. OPER. POWER DISS (W)	OPER. TEMP. RANGE CODE	DRAWINGS		
											MIN. '1' (V)	MAX. '0' (V)	@ Vo (V)	NEG. (V)	POS. (V)	LOGIC OR BLOCK			OUTLINE		
1	PC1912B			1	60	200M	4	F			-3.0*	-4.5Δ			14	0.0	280m	0	7	H01-8	DL40a
2	PC1912F			1	60	200M	4	F			-3.0*	-4.5Δ			14	0.0	280m	0	7	H01-8	DL28a
3	MC12071P			1	256	1.2M	2	F			2.4	0.8			5	450m	0	7	H01-19	DL14ci	
4#	SP8790A			3	4	20M*	2	2			3.5*	1.5Δ	6.0m	.40	0.0	5.0	40m†	5	7	H03-16	CN6f
5#	SP8790B			3	4	20M*	2	2			3.5*	1.5Δ	6.0m	.40	0.0	5.0	40m†	5	7	H03-16	CN6f
6	MC3396P			3	20	200M†	5								0.0	5.0		4	8	H03-58	DL8b
7#	SAA1059(A)		BIP	1	33	125M	0								0	9	760m			H01-35	DL16Z
8#	M54819L		BIP	1	2-16	3.0M	6				2.0	0.6	1.6m		0.0	14.5		0	5	H01-36	SLZ
9#	SAB1164(A)		BIP	3	64	1.0G	6				5.0Δ	4.2Δ			0.0	7.0		0	7	H03-87	DL8al
10#	SAB1256(A)		BIP	3	256	1.0G	8				5.0Δ	4.2Δ			0.0	7.0		0	7	H03-87	DL8al
11	MC14569BAL		CMS	1	16	9.5M	4F				11*	4.0Δ	3.4m	1.5	0.0	15	9.0m%	5	7	H03-69	DL16am
12	MC14569BCL		CMS	1	16	9.5M	4F				11*	4.0Δ	3.0m	1.5	0.0	15	9.0m%	4	8	H03-69	DL16am
13	MC14569BCP		CMS	1	16	9.5M	4F				11*	4.0Δ	3.0m	1.5	0.0	15	9.0m%	4	8	H03-69	DL16bo
14	RDD104		CMS	1	10000	6M	4						1.6m	4.75	-0.5	18.0		4	8	H03-63	DL8Z
15#	HEF4059BDF		CMS	1	15999		5				11.0*	4.0Δ	3.0m	1.5	0.0	15	400m	4	8	H01-1	DL24av
16#	HEF4059BPN		CMS	1	15999		5				11.0*	4.0Δ	3.0m	1.5	0.0	15	400m	4	8	H01-1	DL24af
17	CD4059AD		CMS	1	15999	3.0M	5				9.95*	.05ΔC	4.0m†	.50	0.0	10	200m	5	7	H01-34c	MO015AG
18	CD4059AE		CMS	1	15999	3.0M	5				9.95*	.05ΔC	4.0m†	.50	0.0	10	200m	4	8	H01-34c	MO015AA
19#	HBC4059AD		CMS	1	15999	3.0M	5				8.0*	2.0Δ	4.0m†	.50	0.0	10	200m%	5	7	H01-34a	DL24aj
20#	HBC4059AK		CMS	1	15999	3.0M	5				8.0*	2.0Δ	4.0m†	.50	0.0	10	200m%	5	7	H01-34a	DL24aj
21#	HBF4059AD		CMS	1	15999	3.0M	5				8.0*	2.0Δ	4.0m†	.50	0.0	10	200m%	4	8	H01-34a	DL24aj
22#	HBF4059AE		CMS	1	15999	3.0M	5				8.0*	2.0Δ	4.0m†	.50	0.0	10	200m%	4	8	H01-34a	DL24aj
23#	SP8793A		CMS	1	40-41	200M	1				2.4	0.5C	2.0m	0.5	0.0	5.2		3	7	H01-34a	DL8ak
24#	SP8793		CMS	1	40-41	225M	1				2.4	0.5C	2.0m	0.5	0.0	5.2		3	7	H01-34a	DL8ak
25#	SP8792A		CMS	1	80-81	200M	1				2.4	0.5C	2.0m	0.5	0.0	5.2		3	7	H01-34b	DL8ak
26#	SP8792		CMS	1	80-81	225M	1				2.4	0.5C	2.0m	0.5	0.0	5.2		3	7	H01-34b	DL8ak
27#	M58478P		CMS	1	88672	5.5M*	17				6.0	.50			0.0	8.5	250m	3	7	H01-21	DL8i
28	MM5369N		CMS	1	98000	4.5M	17				9.0*	1.0Δ	500u	5.0	0.0	10	150m%	0	7	H01-13	DL8k
29	883/4527B		CMS	2		8.0MS	4				8.2	6.7	3.4m	1.5	0.0	15	300m	5	7	H01-13	MO001AG
30#	TC4527BP		CMS	2	10	2.5MS	4				14.9*	.05ΔC	3.0m	1.5	0.0	15	300m	4	8	H01-13	DL16cr
31	MC14527BCL		CMS	2	10	3.3MS	4				11.0*	4.0Δ	3.0m	1.5	0.0	15	1.2m%	4	8	H01-13	DL16aj
32	MC14527BCP		CMS	2	10	3.3MS	4				11.0*	4.0Δ	3.0m	1.5	0.0	15	1.2m%	4	8	H01-13	DL16bo
33	MC14527BAL		CMS	2	10	4.0MS	4				11.0*	4.0Δ	3.0m	1.5	0.0	15	300u%	5	7	H01-13	DL16aj
34#	HCC4527BD		CMS	2	10	5.5M†	4				11*	4.0Δ	6.8m†	1.5	0.0	15	300u%	5	7	H01-13	DL16cm
35#	HCC4527BF		CMS	2	10	5.5M†	4				11*	4.0Δ	6.8m†	1.5	0.0	15	300u%	5	7	H01-13	DL16aq
36#	HCC4527BK		CMS	2	10	5.5M†	4				11*	4.0Δ	6.8m†	1.5	0.0	15	300u%	5	7	H01-13	FP131
37#	HCF4527BE		CMS	2	10	5.5M†	4				11*	4.0Δ	6.8m†	1.5	0.0	15	300u%	4	8	H01-13	DL16bj
38#	HCF4527BF		CMS	2	10	5.5M†	4				11*	4.0Δ	6.8m†	1.5	0.0	15	300u%	4	8	H01-13	DL16aq
39#	HD14527B		CMS	2	10	5.5M†	4				3.5	1.0			0.0	15	300m	4	8	H01-13	DL16p
40	SCL4527B		CMS	2	10	6.0M†	4				9.95*	.05ΔC	1.3m	.50	0.0	10	100u%	5	7	H01-13	DL16ar
41	CD4527BCJ		CMS	2	10	7.0MS†	4				11*	4.0Δ	3.0m	1.5	0.0	15	1.2m%	4	8	H01-13	DL16au
42	CD4527BCN		CMS	2	10	7.0MS†	4				11*	4.0Δ	3.0m	1.5	0.0	15	1.2m%	4	8	H01-13	DL16bu
43	CD4527BD		CMS	2	10	7.0MS†	4				11*	4.0Δ	3.4m	1.5	0.0	15	500m	5	7	H01-13	MO001AE
44	CD4527BE		CMS	2	10	7.0MS†	4				11*	4.0Δ	3.4m	1.5	0.0	15	500m	4	8	H01-13	MO001AC
45	CD4527BF		CMS	2	10	7.0MS†	4				11*	4.0Δ	3.4m	1.5	0.0	15	500m	5	7	H01-13	MO001AC
46	CD4527BMJ		CMS	2	10	7.0MS†	4				11*	4.0Δ	3.4m	1.5	0.0	15	300u%	5	7	H01-13	DL16au
47	CD4527BMW		CMS	2	10	7.0MS†	4				11*	4.0Δ	3.4m	1.5	0.0	15	300u%	5	7	H01-13	FP88c
48#	HCC4089BD		CMS	2	16	5.5M†	4				11*	4.0Δ	6.8m†	1.5	0.0	15	300u%	5	7	H01-13	DL16cm
49#	HCC4089BF		CMS	2	16	5.5M†	4				11*	4.0Δ	6.8m†	1.5	0.0	15	300u%	5	7	H01-13	DL16aj
50#	HCC4089BK		CMS	2	16	5.5M†	4				11*	4.0Δ	6.8m†	1.5	0.0	15	300u%	5	7	H01-13	FP131
51#	HCF4089BE		CMS	2	16	5.5M†	4				11*	4.0Δ	6.8m†	1.5	0.0	15	300u%	4	8	H01-13	DL16bj
52#	HCF4089BF		CMS	2	16	5.5M†	4				11*	4.0Δ	6.8m†	1.5	0.0	15	300u%	4	8	H01-13	DL16aq
53	CD4089BCJ		CMS	2	16	7.0MS†	4				11*	4.0Δ	3.0m	1.5	0.0	15	1.2m%	4	8	H01-13	DL16au
54	CD4089BCN		CMS	2	16	7.0MS†	4				11*	4.0Δ	3.0m	1.5	0.0	15	1.2m%	4	8	H01-13	DL16bu
55	CD4089BD		CMS	2	16	7.0MS†	4				11*	4.0Δ	3.4m	1.5	0.0	15	500m	5	7	H01-13	MO001AE
56	CD4089BE		CMS	2	16	7.0MS†	4				11*	4.0Δ	3.4m	1.5	0.0	15	500m	4	8	H01-13	MO001AC
57	CD4089BF		CMS	2	16	7.0MS†	4				11*	4.0Δ	3.4m	1.5	0.0	15	500m	5	7	H01-13	MO001AC
58	CD4089BMJ		CMS	2	16	7.0MS†	4				11*	4.0Δ	3.4m	1.5	0.0	15	300u%	5	7	H01-13	DL16au
59	CD4089BMW		CMS	2	16	7.0MS†	4				11*	4.0Δ	3.4m	1.5	0.0	15	300u%	5	7	H01-13	FP88c
60	883/4445B		CMS	3	4	12MS	21				8.2	6.7	3.4m	1.5	0.0	15	300m	5	7	H01-13	MO001AG
61	RED5/6		CMS	3	4	120kS	2				4.99*	0.01ΔC	.18m	0.4	0.0	15		4	8	H03-62	DL8ah
62#	SP8794A		CMS	3	8	60M	3				9.0	0.4			0.0	5.0		5	7	H03-83	TO8
63#	SP8794B		CMS	3	8	60M	3				9.0	0.4			0.0	5.0		5	7	H03-83	TO8
64	MC14017BCL		CMS	3	10	6.7MS	4				11*	4.0Δ	3.0m	1.5	0.0	15	400u%	4	8	H01-17	DL16aj
65	MC14017BCP		CMS	3	10	6.7MS	4		</												

13. FREQUENCY DIVIDERS

IN ORDER OF: (1) TECHNOLOGY (2) TYPE CODE (3) MAX. DIVISOR (4) MAX. FREQ. (5) TYPE NO.

LINE NO.	TYPE NO.	DATA SHT.	TECH	TYPE CODE	MAXIMUM DIVISOR	MAX. OPER. FREQ. (Hz)	N O T A G E	LOGIC LEVEL		MINIMUM SINK CURRENT (A)	POWER SUPPLY SPAN @ V _o (V)	POWER SUPPLY NEG. (V)	POWER SUPPLY POS. (V)	MAX. OPER. POWER DISS (W)	OPER. TEMP. RANGE CODE	DRAWINGS		
								MIN. '1' (V)	MAX. '0' (V)							LOGIC OR BLOCK	OUTLINE	
1#	M54462P		ECL	1	64-256	1.0G	8	2.4	0.45C				0.0	7.0	1.3	H01-37	DL14cf	
2#	SAB1018A		ECL	2	256	950M		10Δ	3.4C*	2.0m	3.4	0.0	5.0	0	7	H02-15	DL8aj	
3#	SAB1018P		ECL	2	256	950M		10Δ	3.4C*	2.0m	3.4	0.0	5.0	0	7	H02-14	DL14cx	
4#	SAB1078D		ECL	2	10-11	325M		3.3	4.1	20m	0.5	7.0	0.0	0	7	H02-13	DL16gb	
5#	SAB1078P		ECL	2	10-11	325M		3.3	4.1	20m	0.5	7.0	0.0	0	7	H02-13	DL16ga	
6#	SAB1078AD		ECL	2	10-11	625M		3.3	4.1	20m	0.5	7.0	0.0	0	7	H02-13	DL16gb	
7#	SAB1078AP		ECL	2	10-11	625M		3.3	4.1	20m	0.5	7.0	0.0	0	7	H02-13	DL16ga	
8#	SP8605A		ECL	3	2	1.0G	1	-93	-1.6C			5.2	0.0	5	C	H03-65	TO8	
9#	SP8605B		ECL	3	2	1.0G	1	-93	-1.6C			5.2	0.0	0	7	H03-65	TO8	
10#	SP8606A		ECL	3	2	1.3G	1	-93	-1.6C			5.2	0.0	5	C		TO8	
11#	SP8606B		ECL	3	2	1.3G	1	-93	-1.6C			5.2	0.0	0	7		TO8	
12#	SA1034		ECL	3	4.0	1.1M	2			5.0m		-5.2	0.0	4	B	H03-64	DL14dd	
13#	SA1534		ECL	3	4.0	1.5M	2			5.0m		-5.2	0.0	4	B	H03-64	DL14dd	
14#	SP8610A		ECL	3	4	1.0G	2	-93	-1.6C			5.2	0.0	5	C	H03-66	DL14dc	
15#	SP8610B		ECL	3	4	1.0G	2	-93	-1.6C			5.2	0.0	0	7	H03-66	DL14dc	
16#	SP8611A		ECL	3	4	1.3G	2	-93	-1.6C			5.2	0.0	5	C	H03-66a	DL14dc	
17#	SP8617BDC		ECL	3	4	1.3G	2	-93	-1.6C			6.8	0.35	0	7	H03-66c	DL14de	
18#	SP8617BDG		ECL	3	4	1.3G	2	-93	-1.6C			6.8	0.35	0	7	H03-66c	DL14de	
19#	SP8617MDC		ECL	3	4	1.3G	2	-93	-1.6C			6.8	0.35	4	B	H03-66c	DL14de	
20#	SP8617MDG		ECL	3	4	1.3G	2	-93	-1.6C			6.8	0.35	4	B	H03-66c	DL14de	
21#	SP8611B		ECL	3	4	1.5G	2	-93	-1.6C			5.2	0.0	0	7	H03-66a	DL14dc	
22#	SP8619BDC		ECL	3	4	1.5G	2	-93	-1.6C			6.8	0.35	0	7	H03-66d	DL14de	
23#	SP8619BDG		ECL	3	4	1.5G	2	-93	-1.6C			6.8	0.35	0	7	H03-66d	DL14de	
24#	SP8619MDC		ECL	3	4	1.5G	2	-93	-1.6C			6.8	0.35	4	B	H03-66d	DL14de	
25#	SP8619MDG		ECL	3	4	1.5G	2	-93	-1.6C			6.8	0.35	4	B	H03-66d	DL14de	
26#	SP8612BDC		ECL	3	4	1.8G	2	-93	-1.6C			5.2	0.0	0	7	H03-66b	DL14de	
27#	SP8612BDG		ECL	3	4	1.8G	2	-93	-1.6C			5.2	0.0	0	7	H03-66b	DL14de	
28#	SP8620A		ECL	3	5	400M	3	-0.7	-1.8C			5.2	0.25	5	C	H03-67	DL14dc	
29#	SP8620B		ECL	3	5	400M	3	-0.7	-1.8C			5.2	0.25	3	C	H03-67	DL14dc	
30#	SP8670A		ECL	3	8	600M	3	-0.7	-1.8C			5.2	0.0	5	C	H03-75a	DL14dc	
31#	SP8670B		ECL	3	8	600M	3	-0.7	-1.8C			5.2	0.0	3	C	H03-75a	DL14dc	
32#	SP8735B		ECL	3	8	600M	3	-0.7	-1.8C			5.2	0.0	0	7	H01-27	DL16ci	
33#	SP8675B		ECL	3	8	1.0G	2	-0.7	-1.8C			6.8	0.0	0	7	H03-79	DL14dc	
34#	SP8678B		ECL	3	8	1.5G	2	-0.7	-1.8C			6.8	0.0	0	7	H03-79a	DL14dc	
35#	SP8630A		ECL	3	10	600M	3	-0.7	-1.8C			5.2	0.0	5	C	H03-67a	DL14dc	
36#	SP8668B		ECL	3	10	1.5G	4	-0.7	-1.8C			6.8	0.0	0	7	H03-11a	DL14dc	
37#	SP8650A		ECL	3	16	600M	4	-0.7	-1.8C			5.2	0.25	5	C	H03-75	DL14dc	
38#	SP8650B		ECL	3	16	600M	4	-0.7	-1.8C			5.2	0.25	3	C	H03-75	DL14dc	
39#	DS8626N		ECL	3	40	120M	3	2.4	0.4	2.0	0.4	0.0	5.2	0	7	H04-2	DL8ac	
40#	SDA2101		ECL	3	64	950M	4	4.5*	4.11ΔC	2.0	0.4	0.0	5.5	0	7	H03-61	DL8n	
41#	M54456P		ECL	3	64	1.2G	5	2.5	0.4	5.0m	0.4	0.0	9.0	1	7	H03-85	DL14cf	
42#	DS8629N		ECL	3	100	120M	3	2.4	0.5			0	5.2	0	7	H04-2	DL8ac	
43#	M54463P		ECL	3	128	1.2G	6	2.5	0.4	5.0m	0.4	0.0	9.0	1	7	H03-86	DL14cf	
44#	M54454P		ECL	3	256	1.2G	6	2.5	0.4C	5.0m	0.4	0.0	9.0	1	7	H03-84	DL14cf	
45#	M54457P		ECL	3	256	1.2G	6	2.5	0.4	5.0m	0.4	0.0	9.0	1	7	H03-85	DL14cf	
46#	MC12009L #1		ECL	1	6	600MT	3	-1.1*	-1.4Δ	20m	-1.0	5.2	0.0	310m†	3	B	H01-16	DL16am
47#	MC12009P #1		ECL	1	6	600MT	3	-1.1*	-1.4Δ	20m	-1.0	5.2	0.0	310m†	3	B	H01-16	DL16bo
48#	MC12509L #1		ECL	1	6	600MT	3	-1.1*	-1.4Δ	20m	-1.0	5.2	0.0	310m†	5	C	H01-16	DL16am
49#	MC12509P #1		ECL	1	6	600MT	3	-1.1*	-1.4Δ	20m	-1.0	5.2	0.0	310m†	5	C	H01-16	DL16bo
50#	MC12011L #1		ECL	1	9	600MT	4	-1.1*	-1.4Δ	20m	-1.0	5.2	0.0	310m†	3	B	H01-16a	DL16am
51#	MC12011P #1		ECL	1	9	600MT	4	-1.1*	-1.4Δ	20m	-1.0	5.2	0.0	310m†	3	B	H01-16a	DL16bo
52#	MC12511L #1		ECL	1	9	600MT	4	-1.1*	-1.4Δ	20m	-1.0	5.2	0.0	310m†	5	C	H01-16a	DL16am
53#	SP8695A		ECL	1	11	200M	4	4.1*	3.5Δ	3.2m	.40	0.0	5.0	80m†	5	C	H01-5	DL16ci
54#	SP8695B		ECL	1	11	200M	4	4.1*	3.5Δ	3.2m	.40	0.0	5.0	80m†	0	7	H01-5	DL16ci
55#	SP8685A		ECL	1	11	500M	4	.80Δ	.40*	20m	0.0	5.2	0.0	5	C	H01-4	DL16q	
56#	SP8685B		ECL	1	11	500M	4	.80Δ	.40*	20m	0.0	5.2	0.0	5	C	H01-4	DL16q	
57#	MC12013L #1		ECL	1	11	600MT	4	-1.0*	-1.6ΔC	20m	-1.0	5.2	0.0	310m†	3	B	H01-16b	DL16am
58#	MC12013P #1		ECL	1	11	600MT	4	-1.0*	-1.6ΔC	20m	-1.0	5.2	0.0	310m†	3	B	H01-16b	DL16bo
59#	MC12013P #3		ECL	1	11	600MT	4	4.0*	3.4ΔC	20m	4.0	0.0	5.0	310m†	3	B	H01-16b	DL16bo
60#	MC12513L #1		ECL	1	11	600MT	4	-.97*	-1.6ΔC	20m	-1.0	5.2	0.0	310m†	5	C	H01-16b	DL16am
61#	MC12513P #2		ECL	1	11	600MT	4	-2.5*	-4.4ΔC	16m	-4.4	5.2	0.0	310m†	5	C	H01-16b	DL16bo
62#	S89		ECL	1	202	500M	8	4.9	1.5			0.0	5.0	425m	3	B	H03-4	DL14cp
63#	SP8604A		ECL	3	2	300M	2	-.90	-1.7			5.2	0.0	5	C	H03-4	CN46b	
64#	SP8604B		ECL	3	2	300M	2	-.90	-1.7			5.2	0.0	0	7	H03-4	CN46b	
65#	SP8602A		ECL	3	2	500M	2	-.90	-1.7			5.2	0.0	5	C	H03-4	CN46b	
66#	SP8602B		ECL	3	2	500M	2	-.90	-1.7			5.2	0.0	0	7	H03-4	CN46b	
67#	SP8607A		ECL	3	2	600MT	1	-.75	-1.5	15m‡		5.2	0.0	70m†	5	C	H03-13	CN6f
68#	SP8607B		ECL	3	2	600MT	1	-.75	-1.5	15m‡		5.2	0.0	0	7	H03-13	CN6f	
69#	SP8601A		ECL	3	4	150M	2	-.80	-1.4	2.0m		5.2	0.0	5	C	H03-3	CN46b	
70#	SP8601B		ECL	3	4	150M	2	-.80	-1.4	2.0m		5.2	0.0	0	7	H03-3	CN46b	
71#	SP8600A		ECL	3	4	250M	2	-.80	-1.4	2.0m		5.2	0.0	5	C	H03-2	CN46b	
72#	SP8600B		ECL	3	4	250M	2	-.80	-1.4	2.0m		5.2	0.0	0	7	H03-2	CN46b	
73#	F11C05DM		ECL	3	4	950M	2	-.98*	-1.6ΔC	10m	-.98	5.0	0.0	450m%	5	C	H03-48	TO116
74#	F11C05DC		ECL	3	4	1.0G	2	-1.0*	-1.6ΔC	18m	-1.0	5.0	0.0	450m%	0	7	H03-48	TO116
75#	SAB1048		ECL	3	4	1.0G	2	-1.1*	-1.6Δ			5.2	0.0	250m	0	7	H03-52	TO

13. FREQUENCY DIVIDERS

IN ORDER OF: (1) TECHNOLOGY (2) TYPE CODE (3) MAX. DIVISOR (4) MAX. FREQ. (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	1 TECH	2 TYPE CODE	3 MAXIMUM DIVISOR	4 MAX. OPER. FREQ. (Hz)	N S O T A G E	LOGIC LEVEL		MINIMUM SINK CURRENT		POWER SUPPLY SPAN		MAX. OPER. POWER DISS (W)	OPER. TEMP. RANGE CODE		DRAWINGS	
								MIN. '1' (V)	MAX. '0' (V)	(A)	@ V _o (V)	NEG. (V)	POS. (V)		-	+	LOGIC OR BLOCK	OUTLINE
1	MC3393P		TTL	1	16	140M†	4	2.7*	.80ΔC	1.5m	.30	0.0	5.0	200m	4	8	H01-17	DL16bo
2#	K155IE8		TTL	1	64			2.4	0.4			0.0	5.0		1	7	54-167	
3	CA3179G		TTL	1	256	1.5G	8	2.4*	.80Δ			0.0	5.0	700m	0	8	H01-20	MO001AB
4#	ZN1034P#1		TTL	1	4096		12	2.5*	.40CΔ	25m	.40	0.0	5.0	25m%	0	7	J06-7	DLJ
5#	ZN1034T#1		TTL	1	4096		12	2.5*	.40CΔ	25m	.40	0.0	5.0	25m%	0	7	J06-7	TO100
6	54167FM		TTL	2	10	25M	2	2.0*	.80Δ			0.0	5.0	495m	0	5	54-167	FP93c
7	74167PC		TTL	2	10	25M	2	2.0*	.80Δ			0.0	5.0		0	7	H02-11	*
8	SN54167J		TTL	2	10	32M†	4F	2.0*	.80Δ	16m	.40	0.0	5.0	495m	0	5	74-167	DL16v
9	SN54167W		TTL	2	10	32M†	4F	2.0*	.80Δ	16m	.40	0.0	5.0	495m	0	5	74-167	MO004AG
10	SN74167J		TTL	2	10	32M†	4F	2.0*	.80Δ	16m	.40	0.0	5.0	495m	0	7	74-167	DL16v
11	SN74167N		TTL	2	10	32M†	4F	2.0*	.80Δ	16m	.40	0.0	5.0	495m	0	7	74-167	DL16i
12	SN5497J		TTL	2	64	32M†	6F	2.0*	.80Δ	16m	.40	0.0	5.0	400m†	0	7	74-97N	DL16v
13	SN5497W		TTL	2	64	32M†	6F	2.0*	.80Δ	16m	.40	0.0	5.0	400m†	5	C	54-97	MO004AG
14	SN7497J		TTL	2	64	32M†	6F	2.0*	.80Δ	16m	.40	0.0	5.0	400m†	0	7	74-97N	DL16v
15	SN7497N		TTL	2	64	32M†	6F	2.0*	.80Δ	16m	.40	0.0	5.0	400m†	0	7	74-97N	DL16i
16#	SP8660		TTL	3	10	150M	4	9.0	0.4C			0.0	5.0		3	7	H03-76a	DL8ak
17#	SP8658		TTL	3	20	200M	5	9.0	0.4C			0.0	5.0		3	7	H03-76	DL8ak
18#	SP8755A		TTL	3	64	1.2G	6	2.5	.45C	5.0m	.45	0.0	5.0		5	C	H03-81	DL14dc
19#	SP8755B		TTL	3	64	1.2G	6	2.5	.45C	5.0m	.45	0.0	5.0		3	7	H03-81	DL14dc
20#	SP8629		TTL	3	100	150M	3	2.0	0.5C	8.0m	0.5	0.0	5.2		3	7	H03-68	DL8ak
21#	SAJ110		TTL	3	128	1.0M†	7	6.0*	1.0Δ			0.0	9.0	200m	2	C	H03-46	DL14bv
22#	SP8775		TTL	3	256	1.2G	8	3.3	.45C	2.0m	.45	0.0	5.0		3	7	H03-82	DL14dc

15. ADDERS

IN ORDER OF(1)TECHNOLOGY(2)TYPE CODE(3)BITS
(4)PROPAGATION DELAY(5)TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	1 | TECH	2 | TC YO PD EE	3 | B I T S	4 | MAX. PROP. DELAY (S)	OM PO ED RE	LOGIC LEVEL		MINIMUM SINK CURRENT		POWER SUPPLY SPAN		MAX. OPER. POWER DISS. (W)	FEATURES	OPER. TEMP. RANGE CODE	DRAWINGS		
								MIN. '1' (V)	MAX. '0' (V)	(A)	@ Vo	NEG. (V)	POS. (V)				LOGIC OR BLOCK	OUTLINE	
1	HEF40088TD		CMS	2	4	80n	P	11.0*	4.0Δ	3.0m	1.5	0.0	15	200m	Laco	4	8	A02-02	FP148
2	HEF40088BDF		CMS	2	4	100n	P	11.0*	4.0Δ	3.0m	1.5	0.0	15	400m	Laco	4	8	A02-02	DL16at
3	HEF40088BPN		CMS	2	4	100n	P	11.0*	4.0Δ	3.0m	1.5	0.0	15	400m	Laco	4	8	A02-02	DL16cc
4	893/4008B		CMS	2	4	230n	S	8.2	6.7	3.4m	1.5	0.0	15	300m	LACO	5	C	40-08	MO001AG
5	MC14032BAL		CMS	2	1	190 n	S	11.0*	4.0 Δ	3.0m	1.5	0.0	15	300u%	Triple Adde	5	C	40-32B	DL16aj
6	MC14038BAL		CMS	2	1	190 n	S	11.0*	4.0 Δ	3.0m	1.5	0.0	15	300u%	Triple Adde	5	C	40-38B	DL16aj
7	MC14032BCL		CMS	2	1	230 n	S	11.0*	4.0 Δ	3.0m	1.5	0.0	15	1.2m%	Triple Adde	4	8	40-32B	DL16aj
8	MC14032BCP		CMS	2	1	230 n	S	11.0*	4.0 Δ	3.0m	1.5	0.0	15	1.2m%	Triple Adde	4	8	40-32B	DL16bo
9	MC14038BCL		CMS	2	1	230 n	S	11.0*	4.0 Δ	3.0m	1.5	0.0	15	1.2m%	Triple Adde	4	8	40-32	DL16aj
10	MC14038BCP		CMS	2	1	230 n	S	11.0*	4.0 Δ	3.0m	1.5	0.0	15	1.2m%	Triple Adde	4	8	40-38B	DL16bo
11	TC4032BP		CMS	2	1	400 n	S	14.9*	.05 ΔC	3.0m	1.5	0.0	15	300m	Triple Adde	4	8	40-32B	DL16cr
12	TC4038BP		CMS	2	1	400 n	S	14.9*	.05 ΔC	3.0m	1.5	0.0	15	300m	Triple Adde	4	8	40-38B	DL16cr
13	MSM580RS		CMS	2	2	500 n	S	3.6 *	0.8 Δ	150u	0.4	0.0	7.0		Carry Outpu	3	8	A02-48	DL14db
14	CD4032AE		CMS	2	3	125 n	S	9.99*	.01 ΔC	500u	.50	0.0	10	1.0m%	Triple Adde	4	8	40-32B	MO001AC
15	CD4038AE		CMS	2	3	125 n	S	9.99*	.01 ΔC	500u	.50	0.0	10	1.0m%	Triple Adde	4	8	40-38B	MO001AC
16	CD4032AD		CMS	2	3	250 n	S	9.99*	.01 ΔC	700u	.50	0.0	10	100u%	Triple Adde	5	C	40-32B	MO001AE
17	CD4032AF		CMS	2	3	250 n	S	9.99*	.01 ΔC	700u	.50	0.0	10	100u%	Triple Adde	5	C	40-32B	MO001AE
18	CD4038AD		CMS	2	3	250 n	S	9.99*	.01 ΔC	700u	.50	0.0	10	100u%	Triple Adde	5	C	40-32B	MO001AE
19	CD4038AF		CMS	2	3	250 n	S	9.99*	.01 ΔC	700u	.50	0.0	10	100u%	Triple Adde	5	C	40-38B	MO001AC
20	CM4032AD		CMS	2	3	250 n	S	9.99*	.01 ΔC	700u	.50	0.0	10	100u%	Triple Adde	5	C	40-32	DL16az
21	CM4038AD		CMS	2	3	250 n	S	9.99*	.01 ΔC	700u	.50	0.0	10	100u%	Triple Adde	5	C	40-32	DL16az
22	HBC4032AD		CMS	2	3	250 n	S	8.0 *	2.0 Δ	700u	.50	0.0	10	100u%	Triple Adde	5	C	40-32B	DL16aq
23	HBC4032AF		CMS	2	3	250 n	S	8.0 *	2.0 Δ	700u	.50	0.0	10	100u%	Triple Adde	5	C	40-32B	DL16aq
24	HBC4032AK		CMS	2	3	250 n	S	8.0 *	2.0 Δ	700u	.50	0.0	10	100u%	Triple Adde	5	C	40-32B	FP131
25	HBC4038AD		CMS	2	3	250 n	S	8.0 *	2.0 Δ	700u	.50	0.0	10	100u%	Triple Adde	5	C	40-38B	DL16aq
26	HBC4038AF		CMS	2	3	250 n	S	8.0 *	2.0 Δ	700u	.50	0.0	10	100u%	Triple Adde	5	C	40-38B	DL16aq
27	HBC4038AK		CMS	2	3	250 n	S	8.0 *	2.0 Δ	700u	.50	0.0	10	100u%	Triple Adde	5	C	40-38B	FP131
28	CD4032BD		CMS	2	3	300 n	S	11 *	4.0 Δ	3.4m	1.5	0.0	15	500m	Triple Adde	5	C	40-32B	MO001AE
29	CD4032BE		CMS	2	3	300 n	S	11 *	4.0 Δ	3.4m	1.5	0.0	15	500m	Triple Adde	4	8	40-32B	MO001AC
30	CD4032BF		CMS	2	3	300 n	S	11 *	4.0 Δ	3.4m	1.5	0.0	15	500m	Triple Adde	5	C	40-32B	MO001AG
31	CD4038BD		CMS	2	3	300 n	S	11 *	4.0 Δ	3.4m	1.5	0.0	15	500m	Triple Adde	5	C	40-38B	MO001AE
32	CD4038BE		CMS	2	3	300 n	S	11 *	4.0 Δ	3.4m	1.5	0.0	15	500m	Triple Adde	4	8	40-38B	MO001AC
33	CD4038BF		CMS	2	3	300 n	S	11 *	4.0 Δ	3.4m	1.5	0.0	15	500m	Triple Adde	5	C	40-38B	MO001AG
34	CM4032AE		CMS	2	3	300 n	S	9.99*	.01 ΔC	500u	.50	0.0	10	1.0m%	Triple Adde	4	8	40-32	DL16az
35	CM4038AE		CMS	2	3	300 n	S	9.99*	.01 ΔC	500u	.50	0.0	10	1.0m%	Triple Adde	4	8	40-38B	DL16az
36	HBF4032AE		CMS	2	3	300 n	S	8.0 *	2.0 Δ	500u	.50	0.0	10	1.0m%	Triple Adde	4	8	40-32B	DL16bj
37	HBF4032AF		CMS	2	3	300 n	S	8.0 *	2.0 Δ	500u	.50	0.0	10	1.0m%	Triple Adde	4	8	40-32B	DL16aq
38	HBF4038AE		CMS	2	3	300 n	S	8.0 *	2.0 Δ	500u	.50	0.0	10	1.0m%	Triple Adde	4	8	40-38B	DL16bj
39	HBF4038AF		CMS	2	3	300 n	S	8.0 *	2.0 Δ	500u	.50	0.0	10	1.0m%	Triple Adde	4	8	40-38B	DL16aq
40	HCC4032BD		CMS	2	3	300 n	S	11 *	4.0 Δ	3.4m	1.5	0.0	15	500m	Triple Adde	5	C	40-32B	DL16cm
41	HCC4032BF		CMS	2	3	300 n	S	11 *	4.0 Δ	3.4m	1.5	0.0	15	500m	Triple Adde	5	C	40-32B	DL16aq
42	HCC4032BK		CMS	2	3	300 n	S	11 *	4.0 Δ	3.4m	1.5	0.0	15	500m	Triple Adde	5	C	40-32B	FP131
43	HCC4038BD		CMS	2	3	300 n	S	11 *	4.0 Δ	3.4m	1.5	0.0	15	500m	Triple Adde	5	C	40-38B	DL16cm
44	HCC4038BF		CMS	2	3	300 n	S	11 *	4.0 Δ	3.4m	1.5	0.0	15	500m	Triple Adde	5	C	40-38B	DL16aq
45	HCC4038BK		CMS	2	3	300 n	S	11 *	4.0 Δ	3.4m	1.5	0.0	15	500m	Triple Adde	5	C	40-38B	FP131
46	HCF4032BE		CMS	2	3	300 n	S	11 *	4.0 Δ	3.4m	1.5	0.0	15	500m	Triple Adde	4	8	40-32B	DL16bj
47	HCF4032BF		CMS	2	3	300 n	S	11 *	4.0 Δ	3.4m	1.5	0.0	15	500m	Triple Adde	4	8	40-32B	DL16aq
48	HCF4038BE		CMS	2	3	300 n	S	11 *	4.0 Δ	3.4m	1.5	0.0	15	500m	Triple Adde	4	8	40-38B	DL16bj
49	HCF4038BF		CMS	2	3	300 n	S	11 *	4.0 Δ	3.4m	1.5	0.0	15	500m	Triple Adde	4	8	40-38B	DL16aq
50	SCL4008B		CMS	2	4	100 n	P	9.95*	.05 ΔC	1.3m	.50	0.0	10	100u%	LACO	5	C	40-08B	DL16ar
51	HEF4008		CMS	2	4	100 n	P	11 *	4.0 Δ	3.0m	1.5	0.0	15	400m	Laco	4	8	40-08B	DL16j
52	4008BDC		CMS	2	4	110 n	P	11 *	4.0 Δ	3.0m	1.5	0.0	15	9.0m%	LACO, BUFF	4	8	A02-2	DL16cj
53	4008BDM		CMS	2	4	110 n	P	11 *	4.0 Δ	3.4m	1.5	0.0	15	9.0m%	LACO, BUFF	5	C	40-08B	DL16cj
54	4008BFC		CMS	2	4	110 n	P	11 *	4.0 Δ	3.0m	1.5	0.0	15	9.0m%	LACO, BUFF	4	8	40-08B	FP103
55	4008BFM		CMS	2	4	110 n	P	11 *	4.0 Δ	3.4m	1.5	0.0	15	9.0m%	LACO, BUFF	5	C	40-08B	FP103
56	4008BPC		CMS	2	4	110 n	P	11 *	4.0 Δ	3.0m	1.5	0.0	15	9.0m%	LACO, BUFF	4	8	40-08B	*
57	HD14032B		CMS	2	4	1.4 u	S	3.5	1.5			0.0	15	300m	Triple Adde	4	8	40-32	DL16p
58	HD14038B		CMS	2	4	1.4 u	S	3.5	1.5			0.0	15	300m	Triple Adde	4	8	40-32	DL16p
59	CD4008BCJ		CMS	2	4	190 n	P	11 *	4.0 Δ	3.0m	1.5	0.0	15	1.2m%	LACO	4	8	40-08B	DL16au
60	CD4008BCN		CMS	2	4	190 n	P	11 *	4.0 Δ	3.0m	1.5	0.0	15	1.2m%	LACO	4	8	40-08B	DL16bu
61	CD4008BMJ		CMS	2	4	190 n	P	11 *	4.0 Δ	3.4m	1.5	0.0	15	300u%	LACO	5	C	A02-2	DL16au
62	CD4008BMW		CMS	2	4	190 n	P	11 *	4.0 Δ	3.4m	1.5	0.0	15	300u%	LACO	5	C	A02-2	FP89c
63	MM54C83D		CMS	2	4	200 n	P	8.0 *	2.0 Δ			0.0	10	4.5m%	LACO	5	C	74-83	DL16bz
64	MM74C83N		CMS	2	4	200 n	P	8.0 *	2.0 Δ			0.0	10	4.5m%	LACO	0	7	74-83	DL16bu
65	HD14560B		CMS	2	4	2.1 u	S	3.5	1.5			0.0	15	300m	NBCD	4	8	A02-02	DL16p
66	CD4008BD		CMS	2	4	230 n	P	11 *	4.0 Δ	3.4m	1.5	0.0	15	500m	Laco	5	C	40-08B	MO001AE
67	CD4008BE		CMS	2	4	230 n	P	11 *	4.0 Δ	3.4m	1.5	0.0	15	500m	Laco	4	8	40-08B	MO001AC
68	CD4008BF		CMS	2	4	230 n	P												

15. ADDERS

IN ORDER OF: (1) TECHNOLOGY (2) TYPE CODE (3) BITS
(4) PROPAGATION DELAY (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TC YO PD EE	B I T S	MAX. PROP. DELAY (S)	OM PO ED RE	LOGIC LEVEL		MINIMUM SINK CURRENT		POWER SUPPLY SPAN		MAX. OPER. POWER DISS. (W)	FEATURES	OPER. TEMP. RANGE CODE	DRAWINGS		
								MIN. '1' (V)	MAX. '0' (V)	① Vo	NEG. (V)	POS. (V)	LOGIC OR BLOCK				OUTLINE		
1	MC14560BCL		CMS	2	4	675 n	P	11.0*	4.0 Δ	3.0m	1.5	0.0	15	NBCD	4	8	45-60B	DL16aj	
2	MC14560BCP		CMS	2	4	675 n	P	11.0*	4.0 Δ	3.0m	1.5	0.0	15	NBCD	4	8	45-60B	DL16bo	
3#	HEF4008P		CMS	2	4	69 n	P	7.0 *	3.0 Δ	2.0m	.50	0.0	10	LACO	4	8	40-08B	DL16bw	
4#	HD14008B		CMS	2	4	800 n	S	3.5	1.5			0.0	15	300m		4	8	A02-47	DL16p
5#	HEF4008B		CMS	2	4	94 n	P	9.95*	.05 ΔC	1.1m	.50	0.0	10	Laco	4	8	40-08B	DL16cb	
6#	MSM4008RS		CMS	2	0	700 n	P	3.6 *	1.0 Δ			0.3	16	200m		4	8	A02-51	DL16Z
7#	100180Y		ECL	2	6	2.2n	P	1.02*	1.62ΔC			5.7	0.0	968m†	Dual	0	8	A02-49	DL24bb
8#	100180F		ECL	2	6	2.0 n	P	1.02*	1.62ΔC			5.7	0.0	968m†	Dual	0	8	A02-49	FP149
9	F100180DC		ECL	2	6	2.0 n	P	1.1*	-1.4Δ	20 m	-1.0	4.5	0.0	765m%		0	7		DL24an
10	F100180FC		ECL	2	6	2.0 n	P	-1.1*	-1.4Δ	20 m	-1.0	4.5	0.0	765m%		0	7		FP126
11#	HXA100180D#ai		ECL	2	6	2.0 n	P	-1.8	-.88			4.5	0	968m		0	8	A02-49	DLZ
12#	HXA100180F#ai		ECL	2	6	2.0 n	P	-1.8	-.88			4.5	0	968m		0	8	A02-49	FPZ
13	F100182DC		ECL	2	9	6.5 n	P	-1.1*	-1.4Δ	20 m	-1.0	4.5	0.0	810m†	Wallace Tre	0	8	A02-42	DL24an
14	F100182FC		ECL	2	9	6.5 n	P	-1.1*	-1.4Δ	20 m	-1.0	4.5	0.0	810m†	Wallace Tre	0	8	A02-42	FP139
15	MC10H180L(A)		ECL	3	2	3.5n	P	-.81	-1.9			5.2	0.0	360m	High Speed	0	7	A03-2	DL16ao
16	MC10H180P(A)		ECL	3	2	3.5n	P	-.81	-1.9			5.2	0.0	360m	High Speed	0	7	A03-2	DL16dp
17#	GXB10180D		ECL	3	2	5.8n	S	-.70	-1.9			5.2	0.0		Dual 2-bit	3	8	*	DL16dz
18#	GXB10180P		ECL	3	2	5.8n	S	-.70	-1.9			5.2	0.0		Dual 2-bit	3	8	*	DL16dy
19#	HD10180		ECL	3	12	3.7 n	P	-.81	-1.8C			5.2	0.0	200m		3	8	A03-1	DL16p
20#	GXB10180		ECL	3	2		P	-.88	-1.7C	20 m	-.96	5.2	0.0		Dual Unit	0	7	*	DL16r
21#	MB10180		ECT	3	2		S	-.96*	-1.6Δ			5.2	0.0	360m†	Dual	3	8	A03-1	DL16ak
22#	MB10180M		ECT	3	2		S	-.96*	-1.6Δ			5.2	0.0	360m†	Dual	3	8	A03-1	DL16bx
23	MC10180L		ECT	3	2	5.4 n	P	-.96*	-1.6ΔC	20 m	-.96	5.2	0.0	360m†	4 Function	3	8	A03-1	DL16aj
24	MC10180P		ECT	3	2	5.4 n	P	-.96*	-1.6ΔC	20 m	-.96	5.2	0.0	360m†	4 Function	3	8	A03-1	DL16bo
25	MC10580F		ECT	3	2	5.4 n	P	-.93*	-1.6ΔC	10 m	-.93	5.2	0.0	360m†	4 Function	5	C	A03-1	FP85
26	MC10580L		ECT	3	2	5.4 n	P	-.93*	-1.6ΔC	10 m	-.93	5.2	0.0	360m†	4 Function	5	C	A03-1	DL16aj
27	F10180DC		ECT	3	2	6.5 n	P	-.96*	-1.6ΔC	20 m	-.96	5.2	0.0	447m%	Dual Unit	0	7	*	DL16cj
28	F10580DM		ECT	3	2	6.5 n	P	-.93*	-1.6ΔC	10 m	-.93	5.2	0.0	447m%	Dual Unit	5	C	*	DL16cj
29	F10580FM		ECT	3	2	6.5 n	P	-.93*	-1.6ΔC	10 m	-.93	5.2	0.0	447m%	Dual Unit	5	C	*	FP103
30	54LS283DM		TTL	1	4	24 n	P	2.0 *	.70 Δ	4.0m	.40	0.0	5.0	195m	Binary w/La	5	C		74-283
31	54LS283FM		TTL	1	4	24 n	P	2.0 *	.70 Δ	4.0m	.40	0.0	5.0	195m	Binary w/La	5	C		54-283
32	54LS283W		TTL	1	4	24 n	P	2.0 *	.70 Δ	4.0m	.40	0.0	5.0	195m	Binary w/La	5	C		54-283
33	74LS83APC		TTL	1	4	24 n	P	2.0 *	.80 Δ	8.0m	.50	0.0	5.0	195m	Binary w/La	0	7		74-83
34	74LS283DC		TTL	1	4	24 n	P	2.0 *	.80 Δ	8.0m	.50	0.0	5.0	195m	Binary w/La	0	7		74-283
35	74LS283PC		TTL	1	4	24 n	P	2.0 *	.80 Δ	8.0m	.50	0.0	5.0	195m	Binary w/La	0	7		74-283
36	MC74F283J(A)		TTL	2	4	10.5n	P	2.0	0.8	20m	0.5	0.0	5.0		High Speed	0	7		74-283
37	MC74F283N(A)		TTL	2	4	10.5n	P	2.0	0.8	20m	0.5	0.0	5.0		High Speed	0	7		74-283
38	MC54F283J(A)		TTL	2	4	14n	P	2.0	0.8	20m	0.5	0.0	5.0		High Speed	5	C		74-283
39	MC54F283N(A)		TTL	2	4	14n	P	2.0	0.8	20m	0.5	0.0	5.0		High Speed	5	C		74-283
40#	N74LS283D		TTL	2	4	24n	P	2.0*	0.8Δ	8.0m	0.5	0.0	5.0	195m	Binary W/LA	0	7		74-283
41#	MB408		TTL	2	1		S	2.0 *	.80 Δ			0.0	5.0	100m†	Gated	0	7		74-80N
42#	MB408M		TTL	2	1		S	2.0 *	.80 Δ			0.0	5.0	100m†	Gated	0	7		74-80N
43	SN54H183J		TTL	2	1	18 n	P	2.0 *	.80 Δ	20 m	.40	0.0	5.0	345m	DUAL	5	C		74H183N
44	SN54H183W		TTL	2	1	18 n	P	2.0 *	.80 Δ	20 m	.40	0.0	5.0	345m	DUAL	5	C		54H183W
45	SN74H183J		TTL	2	1	18 n	P	2.0 *	.80 Δ	20 m	.40	0.0	5.0	375m	DUAL	0	7		74H183N
46	SN74H183N		TTL	2	1	18 n	P	2.0 *	.80 Δ	20 m	.40	0.0	5.0	375m	DUAL	0	7		74H183N
47#	K155M1		TTL	2	1	1900n	P	2.4	0.4			0.0	5.0		Load cap.10	1	7		
48	SN74LS183J		TTL	2	1	23 n	P	2.0 *	.80 Δ	4.0m	.40	0.0	5.0	85 m	DUAL	0	7		74H183N
49	SN74LS183N		TTL	2	1	23 n	P	2.0 *	.80 Δ	4.0m	.40	0.0	5.0	85 m	DUAL	0	7		74H183N
50#	MB74LS183		TTL	2	1	33 n	P	2.0 *	.80 Δ	8.0m	.50	0.0	5.0	855m	Dual	2	7		74H183N
51#	MB74LS183M		TTL	2	1	33 n	P	2.0 *	.80 Δ	8.0m	.50	0.0	5.0	855m	Dual	2	7		74H183N
52	MC4026L		TTL	2	1	35 n	S	2.4 *	.45 ΔC	20 m	.45	0.0	5.0	90 m†	3 Input NAN	0	7		A02-18
53	MC4026P		TTL	2	1	35 n	S	2.4 *	.45 ΔC	20 m	.45	0.0	5.0	90 m†	3 Input NAN	0	7		A02-18
54	MC4028F		TTL	2	1	35 n	P	2.4 *	.45 ΔC	20 m	.45	0.0	5.0	125m†	Depend Carr	0	7		A02-19
55	MC4028L		TTL	2	1	35 n	P	2.4 *	.45 ΔC	20 m	.45	0.0	5.0	125m†	Depend Carr	0	7		A02-19
56	MC4028P		TTL	2	1	35 n	P	2.4 *	.45 ΔC	20 m	.45	0.0	5.0	125m†	Depend Carr	0	7		A02-19
57	MC4030L		TTL	2	1	35 n	P	2.4 *	.45 ΔC	20 m	.45	0.0	5.0	125m†	Inpend Carr	0	7		A02-19a
58	MC4030P		TTL	2	1	35 n	P	2.4 *	.45 ΔC	20 m	.45	0.0	5.0	125m†	Inpend Carr	0	7		A02-19a
59	MC4326F		TTL	2	1	35 n	S	2.4 *	.45 ΔC	25 m	.45	0.0	5.0	90 m†	3 Input NAN	5	C		A02-18
60	MC4326L		TTL	2	1	35 n	S	2.4 *	.45 ΔC	25 m	.45	0.0	5.0	90 m†	3 Input NAN	5	C		A02-18
61	MC4328F		TTL	2	1	35 n	P	2.4 *	.45 ΔC	25 m	.45	0.0	5.0	125m†	Depend Carr	5	C		A02-19
62	MC4328L		TTL	2	1	35 n	P	2.4 *	.45 ΔC	25 m	.45	0.0	5.0	125m†	Depend Carr	5	C		A02-19
63	MC4330F		TTL	2	1	35 n	P	2.4 *	.45 ΔC	25 m	.45	0.0	5.0	125m†	Inpend Carr	5	C		A02-19a
64	MC4330L		TTL	2	1	35 n	P	2.4 *	.45 ΔC	25 m	.45	0.0	5.0	125m†	Inpend Carr	5	C		A02-19a
65	N8268F		TTL	2	1	45 n	P	2.6 *	.40 ΔC	16 m	.40	0.0	5.0	185m	Gated W/LAC	0	7		74-80N
66	N8268W		TTL	2	1	45 n	P	2.6 *	.40 ΔC	16 m	.40	0.0	5.0	185m	Gated W/LAC	0	7		54-80W
67	5480FM		TTL	2	1	47 n	P	2.0 *	.80 Δ			0.0	5.0	105m†	Compl.LACO	5	C		54-80W
68	N7480F		TTL	2	1	80 n	P	2.0 *	.80 Δ	16 m	.40	0.0	5.0	175m	Gated W/LAC	0	7		74-80N
69	N7480N		TTL	2	1	80 n	P	2.0 *	.80 Δ	16 m	.40	0.0	5.0	175m	Gated W/LAC	0	7		74-80N
70	S5480F		TTL	2	1	80 n	P	2.0 *	.80 Δ	16 m	.40	0.0	5.0	155m	Gated W/LAC	5	C		74-80N
71	S5																		

15. ADDERS

IN ORDER OF (1) TECHNOLOGY (2) TYPE CODE (3) BITS (4) PROPAGATION DELAY (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TC YO PD EE	B I T S	MAX. PROP. DELAY (S)	OM PO ED RE	LOGIC LEVEL		MINIMUM SINK CURRENT (A)	@ Vo	POWER SUPPLY SPAN		MAX. OPER. POWER DISS. (W)	FEATURES	OPER. TEMP. RANGE CODE	DRAWINGS	
								MIN. '1' (V)	MAX. '0' (V)			NEG. (V)	POS. (V)				LOGIC OR BLOCK	OUTLINE
1	JANM38510/00601BCA		TTL	2	2	65 n	P	2.0 *	.80 Δ	16 m	.40	0.0	5.0	275m		5 C	74-82N	DL14bo
2	JANM38510/00601BCB		TTL	2	2	65 n	P	2.0 *	.80 Δ	16 m	.40	0.0	5.0	275m		5 C	74-82N	DL14bo
3	JANM38510/00601CAA		TTL	2	2	65 n	P	2.0 *	.80 Δ	16 m	.40	0.0	5.0	275m		5 C	54-82W	FP115
4	JANM38510/00601CAB		TTL	2	2	65 n	P	2.0 *	.80 Δ	16 m	.40	0.0	5.0	275m		5 C	54-82W	FP115
5	JANM38510/00601CCA		TTL	2	2	65 n	P	2.0 *	.80 Δ	16 m	.40	0.0	5.0	275m		5 C	74-82N	DL14bo
6	JANM38510/00601CCB		TTL	2	2	65 n	P	2.0 *	.80 Δ	16 m	.40	0.0	5.0	275m		5 C	74-82N	DL14bo
7	JANM38510/00603BEA		TTL	2	2	69 n	P	2.0 *	.80 Δ	16 m	.40	0.0	5.0	303m		5 C	A02-05	DL16br
8	JANM38510/00603BEB		TTL	2	2	69 n	P	2.0 *	.80 Δ	16 m	.40	0.0	5.0	303m		5 C	A02-05	DL16br
9	JANM38510/00603BFA		TTL	2	2	69 n	P	2.0 *	.80 Δ	16 m	.40	0.0	5.0	303m		5 C	A02-05	FP117
10	JANM38510/00603BFB		TTL	2	2	69 n	P	2.0 *	.80 Δ	16 m	.40	0.0	5.0	303m		5 C	A02-05	FP117
11	JANM38510/00603CEA		TTL	2	2	69 n	P	2.0 *	.80 Δ	16 m	.40	0.0	5.0	303m		5 C	A02-05	DL16br
12	JANM38510/00603CEB		TTL	2	2	69 n	P	2.0 *	.80 Δ	16 m	.40	0.0	5.0	303m		5 C	A02-05	DL16br
13	JANM38510/00603CFA		TTL	2	2	69 n	P	2.0 *	.80 Δ	16 m	.40	0.0	5.0	303m		5 C	A02-05	FP117
14	JANM38510/00603CFB		TTL	2	2	69 n	P	2.0 *	.80 Δ	16 m	.40	0.0	5.0	303m		5 C	A02-05	FP117
15	54F283DM		TTL	2	4	8.5 n	P	2.0 *	.80 Δ			0.0	5.0		LACO	5 C	A02-05	FP117
16	54F283FM		TTL	2	4	8.5 n	P	2.0 *	.80 Δ			0.0	5.0		LACO	5 C	74-283	DL16ad
17	74F283DC		TTL	2	4	8.5 n	P	2.0 *	.80 Δ			0.0	5.0		LACO	5 C	54-83	FP101
18	74F283PC		TTL	2	4	8.5 n	P	2.0 *	.80 Δ			0.0	5.0		LACO	5 C	74-283	DL16ad
19	DM54S283J #mil		TTL	2	4	15 n	P	2.0 *	.80 Δ			0.0	7.0	510m	LACO	5 C	A02-21a	DL16au
20	DM54S283W #mil		TTL	2	4	15 n	P	2.0 *	.80 Δ			0.0	7.0	510m	LACO	5 C	A02-21a	FP98b
21	DM74S283N		TTL	2	4	15 n	P	2.0 *	.80 Δ			0.0	7.0	510m	LACO	5 C	A02-21a	DL16af
22	5483ADM		TTL	2	4	16 n	P	2.0 *	.80 Δ			0.0	5.0	330m†	LACO	5 C	74-83	DL14bf
23	5483AFM		TTL	2	4	16 n	P	2.0 *	.80 Δ			0.0	5.0	330m†	LACO	5 C	74-83	FP52
24	7483ADC		TTL	2	4	16 n	P	2.0 *	.80 Δ			0.0	5.0	330m†	LACO	5 C	74-83	DL16cj
25	7483APC		TTL	2	4	16 n	P	2.0 *	.80 Δ			0.0	5.0	330m†	LACO	5 C	74-83	DL16cj
26	M74LS83AP		TTL	2	4	16 n	P	2.0 *	.80 Δ	8.0m†	.50	0.0	5.0	183m	LACO	5 C	74-83	DL16bc
27	M74LS283P		TTL	2	4	16 n	P	2.0 *	.80 Δ	8.0m†	.50	0.0	5.0	183m	LACO	5 C	A02-02	DL16bd
28	SN54S283J		TTL	2	4	18 n	P	2.0 *	.80 Δ	20 m	.50	0.0	5.0	800m	LACO	5 C	74-283	DL16v
29	SN74S283J		TTL	2	4	18 n	P	2.0 *	.80 Δ	20 m	.50	0.0	5.0	800m	LACO	5 C	74-283	DL16v
30	SN74S283N		TTL	2	4	18 n	P	2.0 *	.80 Δ	20 m	.50	0.0	5.0	800m	LACO	5 C	A02-02	DL16i
31	K155M3		TTL	2	4	1900n	P	2.4	0.4			0.0	5.0		Load cap.10	5 C	A02-02	
32	HD74LS83A		TTL	2	4	21 n	P	2.0 *	.80 Δ	8.0m	.50	0.0	5.0	400m	Cardip	5 C	A02-21	DL16bc
33	HD74LS83AP		TTL	2	4	21 n	P	2.0 *	.80 Δ	8.0m	.50	0.0	5.0	400m	Cardip	5 C	A02-21	DL16bc
34	54LS83ADM		TTL	2	4	24 n	P	2.0 *	.70 Δ	4.0m	.40	0.0	5.0	195m	Binary w/La	5 C	74-83	DL16ci
35	54LS83AFM		TTL	2	4	24 n	P	2.0 *	.70 Δ	4.0m	.40	0.0	5.0	195m	Binary w/La	5 C	54-83	FP103
36	54LS283J		TTL	2	4	24 n	P	2.0 *	.70 Δ	4.0m	.40	0.0	5.0	170m%	Binary w/La	5 C	A02-02	DL16ac
37	74LS83ADC		TTL	2	4	24 n	P	2.0 *	.80 Δ	8.0m	.50	0.0	5.0	195m	Binary w/La	5 C	74-83	DL16ci
38	74283DC		TTL	2	4	24 n	P	2.0 *	.80 Δ			0.0	5.0	550m	Fast Carry	5 C	74-83	DL16ci
39	74283PC		TTL	2	4	24 n	P	2.0 *	.80 Δ			0.0	5.0	550m	Fast Carry	5 C	74-283	
40	HD74LS283		TTL	2	4	24 n	P	2.0 *	.80 Δ	8.0m	.50	0.0	5.0	400m	Cardip	5 C	A02-21a	DL16bc
41	HD74LS283P		TTL	2	4	24 n	P	2.0 *	.80 Δ	8.0m	.50	0.0	5.0	400m	Cardip	5 C	A02-21a	DL16bc
42	MB74LS83A		TTL	2	4	24 n	P	2.0 *	.80 Δ	8.0m	.50	0.0	5.0	195m	LACO	5 C	74-83	DL16as
43	MB74LS83AM		TTL	2	4	24 n	P	2.0 *	.80 Δ	8.0m	.50	0.0	5.0	195m	LACO	5 C	74-83	DL16cu
44	MB74LS283		TTL	2	4	24 n	P	2.0 *	.80 Δ	8.0m	.50	0.0	5.0	195m	LACO	5 C	74-283	DL16as
45	MB74LS283M		TTL	2	4	24 n	P	2.0 *	.80 Δ	8.0m	.50	0.0	5.0	195m	LACO	5 C	74-283	DL16cu
46	N74LS83AF		TTL	2	4	24 n	P	2.0 *	.80 Δ	8.0m	.50	0.0	5.0	195m	LACO	5 C	74-83	DL16aw
47	N74LS83AN		TTL	2	4	24 n	P	2.0 *	.80 Δ	8.0m	.50	0.0	5.0	195m	LACO	5 C	74-83	DL16bp
48	N74LS83F		TTL	2	4	24 n	P	2.0 *	.80 Δ	8 m	.50	0.0	5.0	195m	Binary W/LA	5 C	74-83	DL16ak
49	N74LS283N		TTL	2	4	24 n	P	2.0 *	.80 Δ	8.0m	.50	0.0	5.0	195m	Binary W/LA	5 C	74-283	DL16bp
50	S54LS83AF		TTL	2	4	24 n	P	2.0 *	.70 Δ	4.0m	.40	0.0	5.0	195m	LACO	5 C	74-83	DL16aw
51	S54LS83AW		TTL	2	4	24 n	P	2.0 *	.70 Δ	4.0m	.40	0.0	5.0	195m	LACO	5 C	FP47g	DL16ak
52	S54LS83F		TTL	2	4	24 n	P	2.0 *	.80 Δ	4.0m	.40	0.0	5.0	195m	LACO	5 C	74-83	DL16aw
53	S54LS83W		TTL	2	4	24 n	P	2.0 *	.80 Δ	4.0m	.40	0.0	5.0	195m	LACO	5 C	74-283	FP47g
54	S54LS283F		TTL	2	4	24 n	P	2.0 *	.70 Δ	4.0m	.40	0.0	5.0	195m	Binary W/LA	5 C	54-283	FP47g
55	S54LS283W		TTL	2	4	24 n	P	2.0 *	.70 Δ	4.0m	.40	0.0	5.0	195m	Binary W/LA	5 C	54-283	FP47g
56	SFC4283LSE		TTL	2	4	24 n	P	2.7	.50 ΔC			0.0	5.0	195m	LACO	5 C	74-283	DL16ch
57	SFC4283LSEM		TTL	2	4	24 n	P	2.5	.40 ΔC			0.0	5.0	195m	LACO	5 C	74-283	DL16ch
58	SN54LS83AJ		TTL	2	4	24 n	P	2.0 *	.70 Δ	4.0m	.40	0.0	5.0	195m	LACO	5 C	74-83	DL16v
59	SN54LS83AW		TTL	2	4	24 n	P	2.0 *	.70 Δ	4.0m	.40	0.0	5.0	195m	LACO	5 C	54-83	MO004AG
60	SN54LS283J		TTL	2	4	24 n	P	2.0 *	.70 Δ	4.0m	.40	0.0	5.0	195m%	LACO	5 C	74-283	DL16v
61	SN54LS283W		TTL	2	4	24 n	P	2.0 *	.70 Δ	4.0m	.40	0.0	5.0	195m%	LACO	5 C	54-283	MO004AG
62	SN74LS83AJ		TTL	2	4	24 n	P	2.0 *	.80 Δ	4.0m	.40	0.0	5.0	195m	LACO	5 C	74-83	DL16v
63	SN74LS83AN		TTL	2	4	24 n	P	2.0 *	.80 Δ	4.0m	.40	0.0	5.0	195m	LACO	5 C	74-83	DL16i
64	SN74LS283J		TTL	2	4	24 n	P	2.0 *	.80 Δ	8.0m	.50	0.0	5.0	195m%	LACO	5 C	74-283	DL16v
65	SN74LS283N		TTL	2	4	24 n	P	2.0 *	.80 Δ	8.0m	.50	0.0	5.0	195m%	LACO	5 C	74-283	DL16i
66	SN5483AJ		TTL	2	4	24 n	P	2.0 *	.80 Δ	16 m	.40	0.0	5.0	495m	LACO	5 C	74-83	DL16v
67	SN5483AW		TTL	2	4	24 n	P	2.0 *	.80 Δ	16 m	.40	0.0	5.0	495m	LACO	5 C	54-83	MO004AG
68	SN7483AJ		TTL	2	4	24 n	P	2.0 *	.80 Δ	16 m	.40	0.0	5.0	550m	LACO	5 C	74-83	DL16v
69	SN7483AN		TTL	2	4	24 n	P	2.0 *	.80 Δ	16 m	.40	0.0	5.0	550m	LACO	5 C	74-83	DL16i
70	SN54283J		TTL	2	4	24 n	P	2.0 *	.80 Δ	16 m	.40	0.0	5.0	495m	LACO	5 C	74-283	DL16v
71	SN54283W		TTL	2	4	24 n	P	2.0 *	.80 Δ	16 m	.40	0.0	5.0	495m	LACO	5 C	54-283	MO004AG
72	SN74283J		TTL	2	4	24 n	P	2.0 *	.80 Δ	16 m	.40	0.0	5.0	550m	LACO	5 C	74-283	DL16v
73	SN74283N		TTL	2	4	24 n	P	2.0 *	.80 Δ	16 m	.40	0.0	5.0	550m	LACO	5 C	74-283	DL16i
74	T54LS83D2		TTL	2	4	24 n	P	2.0 *	.70 Δ	8.0m	.50	0.0	5.0	195m%	Binary w/La	5 C	A02-02	DL16an
75	T54LS283D2		TTL	2	4	24 n	P	2.0 *	.70 Δ	8.0m	.50	0.0	5.0	195m%	Binary w/La	5 C	A02-02	DL16an
76	T74LS83B1		TTL	2	4	24 n	P	2.0 *	.80 Δ	8.0m	.50	0.0	5.0	195m%	Binary w/La	5 C	74-83	DL16bj
77	T74LS83D1		TTL	2	4	24 n	P	2.0 *	.80 Δ	8.0m	.50	0.0	5.0	195m%	Binary w/La	5 C	74-83	DL16an
78	T74LS283B1		TTL	2	4	24 n	P	2.0 *	.80 Δ	8.0m	.50	0.0	5.0	195m%	Binary w/La	5 C	74-283	DL16bj
79	T74LS283D1		TTL	2	4	24 n	P	2.0 *	.80 Δ	8.0m	.50	0.0	5.0	195m%	Binary w/La	5 C	A02-02	DL16an
80	DM54LS83AJ #mil		TTL	2	4	25 n	P	2.0	0.8			0	7.0	95 m	LACO	5 C	A02-21	DL16au
81	DM54LS83AW #mil		TTL	2	4	25 n	P	2.0	0.8			0	7.0	95 m	LACO	5 C	A02-21	FP98b

15. ADDERS

IN ORDER OF:(1)TECHNOLOGY(2)TYPE CODE(3)BITS
(4)PROPAGATION DELAY(5)TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	1] TECH	2] TC YO PD EE	3] B I T S	4] MAX. PROP. DELAY (S)	OM PO ED RE	LOGIC LEVEL		MINIMUM SINK CURRENT (A)	POWER SUPPLY SPAN @ Vo	POWER SUPPLY		MAX. OPER. POWER DISS. (W)	FEATURES	OPER. TEMP. RANGE CODE	DRAWINGS		
								MIN. '1' (V)	MAX. '0' (V)			NEG. (V)	POS. (V)				OPER. RANGE CODE	LOGIC OR BLOCK	OUTLINE
1	JANM38510/31201BFB		TTL	2	4	40 n	P	2.0 *	.70 Δ	4.0m	40	0.0	5.5	214m		5 C	54-83	FP117	
2	JANM38510/31201CEA		TTL	2	4	40 n	P	2.0 *	.70 Δ	4.0m	40	0.0	5.5	214m		5 C	74-83	DL16br	
3	JANM38510/31201CEB		TTL	2	4	40 n	P	2.0 *	.70 Δ	4.0m	40	0.0	5.5	214m		5 C	74-83	DL16br	
4	JANM38510/31201CFA		TTL	2	4	40 n	P	2.0 *	.70 Δ	4.0m	40	0.0	5.5	214m		5 C	54-83	FP117	
5	JANM38510/31201CFB		TTL	2	4	40 n	P	2.0 *	.70 Δ	4.0m	40	0.0	5.5	214m		5 C	54-83	FP117	
6	JANM38510/31202BEA		TTL	2	4	40 n	P	2.0 *	.70 Δ	4.0m	40	0.0	5.5	214m		5 C	54-83	FP117	
7	JANM38510/31202BEB		TTL	2	4	40 n	P	2.0 *	.70 Δ	4.0m	40	0.0	5.5	214m		5 C	74-283	DL16br	
8	JANM38510/31202BFA		TTL	2	4	40 n	P	2.0 *	.70 Δ	4.0m	40	0.0	5.5	214m		5 C	74-283	DL16br	
9	JANM38510/31202BFB		TTL	2	4	40 n	P	2.0 *	.70 Δ	4.0m	40	0.0	5.5	214m		5 C	54-283	FP117	
10	JANM38510/31202CEA		TTL	2	4	40 n	P	2.0 *	.70 Δ	4.0m	40	0.0	5.5	214m		5 C	54-283	FP117	
11	JANM38510/31202CEB		TTL	2	4	40 n	P	2.0 *	.70 Δ	4.0m	40	0.0	5.5	214m		5 C	74-283	DL16br	
12	JANM38510/31202CFA		TTL	2	4	40 n	P	2.0 *	.70 Δ	4.0m	40	0.0	5.5	214m		5 C	74-283	DL16br	
13	N82S83F		TTL	2	4	40 n	P	2.0 *	.70 Δ	4.0m	40	0.0	5.5	214m		5 C	54-283	FP117	
14	N82S83N		TTL	2	4	40 n	P	2.6 *	.50 ΔC	16 m	50	0.0	5.0	570m	NBCD	0 7	A02-35	DL16aw	
15	S82S83B		TTL	2	4	40 n	P	2.6 *	.50 ΔC	16 m	50	0.0	5.0	598m	NBCD	0 7	A02-35	DL16bp	
16	S82S83F		TTL	2	4	40 n	P	2.6 *	.50 ΔC	16 m	50	0.0	5.0	598m	NBCD	5 C	A02-35	DL16ak	
17	S5483F		TTL	2	4	40 n	P	2.0 *	.80 Δ	16 m	40	0.0	5.0	395m		5 C		DL16aw	
18	S5483W		TTL	2	4	40 n	P	2.0 *	.80 Δ	16 m	40	0.0	5.0	395m		5 C	54-83	FP47g	
19	DM5483J		TTL	2	4	50 n	P	2.0 *	.80 Δ	16 m	40	0.0	5.0	395m%	LACO	5 C	74-83	DL16ai	
20	DM5483W		TTL	2	4	50 n	P	2.0 *	.80 Δ	16 m	40	0.0	5.0	395m%	LACO	5 C	54-83	FP88a	
21	DM7483N		TTL	2	4	50 n	P	2.0 *	.80 Δ	16 m	40	0.0	5.0	395m%	LACO	0 7	74-83	DL16bu	
22	N7483F		TTL	2	4	50 n	P	2.0 *	.80 Δ	16 m	40	0.0	5.0	395m		0 7	74-83	DL16aw	
23	N7483N		TTL	2	4	50 n	P	2.0 *	.80 Δ	16 m	40	0.0	5.0	395m		0 7	74-83	DL16bp	
24#	SFC483ALSE		TTL	2	4	50 n	P	2.4 *	.40 ΔC	16 m	40	0.0	5.0	195m	LACO	0 7	74-83	DL16ch	
25#	SFC483ALSEM		TTL	2	4	50 n	P	2.4 *	.40 ΔC	16 m	40	0.0	5.0	195m	LACO	5 C	74-83	DL16ch	
26#	SFC483E		TTL	2	4	50 n	P	2.4 *	.40 ΔC	16 m	40	0.0	5.0	360m	LACO	0 7	74-83	DL16ch	
27#	SFC483EM		TTL	2	4	50 n	P	2.4 *	.40 ΔC	16 m	40	0.0	5.0	360m	LACO	5 C	74-83	DL16ch	
28#	SFC483ET		TTL	2	4	50 n	P	2.4 *	.40 ΔC	16 m	40	0.0	5.0	360m	LACO	2 8	74-83	DL16ch	
29#	SFC483JM		TTL	2	4	50 n	P	2.4 *	.40 ΔC	16 m	40	0.0	5.0	360m	LACO	5 C	74-83	DL16ch	
30#	SFC483KM		TTL	2	4	50 n	P	2.4 *	.40 ΔC	16 m	40	0.0	5.0	360m	LACO	5 C	74-83	DL16ch	
31	JANM38510/00602BEA		TTL	2	4	77 n	P	2.0 *	.80 Δ	16 m	40	0.0	5.0	550m		5 C	74-83	DL16br	
32	JANM38510/00602BEB		TTL	2	4	77 n	P	2.0 *	.80 Δ	16 m	40	0.0	5.0	550m		5 C	74-83	DL13br	
33	JANM38510/00602BFA		TTL	2	4	77 n	P	2.0 *	.80 Δ	16 m	40	0.0	5.0	550m		5 C	54-83	FP117	
34	JANM38510/00602BFB		TTL	2	4	77 n	P	2.0 *	.80 Δ	16 m	40	0.0	5.0	550m		5 C	54-83	FP117	
35	JANM38510/00602CEA		TTL	2	4	77 n	P	2.0 *	.80 Δ	16 m	40	0.0	5.0	550m		5 C	74-83	DL16br	
36	JANM38510/00602CEB		TTL	2	4	77 n	P	2.0 *	.80 Δ	16 m	40	0.0	5.0	550m		5 C	74-83	DL16br	
37	JANM38510/00602CFA		TTL	2	4	77 n	P	2.0 *	.80 Δ	16 m	40	0.0	5.0	550m		5 C	54-83	FP117	
38	JANM38510/00602CFB		TTL	2	4	77 n	P	2.0 *	.80 Δ	16 m	40	0.0	5.0	550m		5 C	54-83	FP117	
39#	HD100180		TTL	2	4	77 n	P	2.0 *	.80 Δ	16 m	40	0.0	5.0	550m		5 C	54-83	FP117	
40#	HD100180F		TTL	2.0	6	3.5 n	P	-1.1*	-1.5Δ			7.0	0	40 mt		0 8	A02-50	DL24Z	
41	AM25LS15DC		TTL	3	4		S	2.0	.70 Δ			0.0	5.0			0 7	74LS385N	DLZ	
42	AM25LS15DM		TTL	3	4		S	2.0	.70 Δ			0.0	5.0			5 C	74LS385N	DLZ	
43	AM25LS15FM		TTL	3	4		S	2.0	.70 Δ			0.0	5.0			5 C	54LS385W	FPZ	
44	AM25LS15PC		TTL	3	4		S	2.0	.70 Δ			0.0	5.0			0 7	74LS385N	DLZ	
45	SN54LS385J		TTL	3	4	30 n	S	2.0	.70	4.0m	40	0.0	5.0	375m	4 Indep Ckt	5 C	74LS385N	DL20b	
46	SN74LS385J		TTL	3	4	30 n	S	2.0	.80	8.0m	50	0.0	5.0	375m	4 Indep Ckt	0 7	74LS385N	DL20b	
47	SN74LS385N		TTL	3	4	30 n	S	2.0	.80	8.0m	50	0.0	5.0	375m	4 Indep Ckt	0 7	74LS385N	DL20a	

16. MULTIPLIERS

IN ORDER OF:(1)TECHNOLOGY(2)MODE(3)LO BIT ARRAY(4)PROPAGATION DELAY(5)TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	MODE	BIT ARRAY		MAX DELAY (S)	ARITHMETIC CAPABILITY	LOGIC LEVEL		MINIMUM SINK CURRENT		POWER SUPPLY SPAN		MAX. OPER. POWER DISS. (W)	OPER. TEMP. RANGE CODE	DRAWINGS			
					LO	HI			MIN. '1' (V)	MAX. '0' (V)	(A)	@ Vo	NEG. (V)	POS. (V)			LOGIC OR BLOCK	OUTLINE		
					3	1			(V)	(V)	(A)	(V)	(V)							
1	MC10901Z#ai			P	8	8		2SC/USM;	-0.84Δ	-1.9*			-8.0	0			X00-42	LC10		
2	57508			SP	8	8	400n	2SC/PDA			8.0m		0.0	0.0	5.0	75	5	C	X00-40	DL22b
3	67508			SP	8	8	400nT	2SC/PDA			8.0m		0.0	0.0	5.0	75	5	C	X00-40	DL22b
4	57516			SP	16	16	800n	2SC/PDA			8.0m		0.0	0.0	5.0	1.0	5	C	X00-40	DL24au
5	57518			SP	16	16	800n	2SC/PDA			8.0m		0.0	0.0	5.0	1.0	5	C	X00-40	DL24au
6	67516			SP	16	16	800nT	2SC/PDA			8.0m		0.0	0.0	5.0	1.0	5	C	X00-40	DL24au
7	67518			SP	16	16	800n	2SC/PDA			8.0m		0.0	0.0	5.0	1.0	5	C	X00-40	DL24au
8	MC14554BAL		CMS	P	2	2	130n	BIN	11.0*	4.0Δ	3.0m	1.5	0.0	15	30m%	5	C	45-54B	DL16aj	
9	MC14554BCL		CMS	P	2	2	215n	BIN	11.0*	4.0Δ	3.0m	1.5	0.0	15	1.2m%	4	8	45-54B	DL16aj	
10	MC14554BCP		CMS	P	2	2	215n	BIN	11.0*	4.0Δ	3.0m	1.5	0.0	15	1.2m%	4	8	45-54	DL16bo	
11#	HD14554S		CMS	P	2	2	375n	BIN	3.5	1.5			0.0	18	300m	4	8	45-54	DL16p	
12#	MSM5506RS		CMS	SP	1	8	1.0u	BCD	3.6*	0.8Δ	1.6m	0.4	0.0	70		3	8	X00-43	DL16ccq	
13	MC10287L		ECT	P	1	2	8.5m	BIN	-0.96*	-1.6ΔC	20m	-0.96	5.2	0.0	400m†	3	8	X00-5	DL16aj	
14	MC10183L		ECT	P	2	4	11n	2Sc	-0.96*	-1.6ΔC	20m	-0.96	5.2	0.0	750m†	3	8	X00-4	DL24ak	
15	WTL1016#ai		NCH	P	16	16		2SC/USM	2.0	0.8			0.0	5.0	2.5			X00-17a	DL64ZJ	
16	93S43DC		TTL	P	2	4	20n	BIN,2Sc	2.0*	80Δ	20m	.50	0.0	5.0	490m†	0	7	X00-1	DL24ag	
17	93S43DM		TTL	P	2	4	20n	BIN,2Sc	2.0*	80Δ	20m	.50	0.0	5.0	490m†	5	C	X00-1	DL24ag	
18	93S43FM		TTL	P	2	4	20n	BIN,2Sc	2.0*	80Δ	20m	.50	0.0	5.0	490m†	5	C	X00-1	FP66	
19	93S43PC		TTL	P	2	4	20n	BIN,2Sc	2.0*	80Δ	20m	.50	0.0	5.0	490m†	0	7	X00-1	DL24ah	
20	9344FM		TTL	P	2	4	30n	BIN	2.0*	80Δ			0.0	5.0	550m†	5	C	X00-2	FP66	
21	AM25S05DC		TTL	P	2	4	37n	2SC	2.0*	80Δ	20m	.50	0.0	5.0	935m%	0	7	X00-10	DL24t	
22	AM25S05DM		TTL	P	2	4	37n	2SC	2.0*	80Δ	20m	.50	0.0	5.0	935m%	5	C	X00-10	DL24t	
23	AM25S05FM		TTL	P	2	4	37n	2SC	2.0*	80Δ	20m	.50	0.0	5.0	935m%	5	C	X00-10	FP105	
24	AM25S05PC		TTL	P	2	4	37n	2SC	2.0*	80Δ	20m	.50	0.0	5.0	935m%	0	7	X00-10	DL24g	
25	N74LS261F		TTL	P	2	4	42n	BIN,2Sc	2.0*	80Δ	8.0m	.50	0.0	5.0	200m	0	7	74LS261	DL16aw	
26	N74LS261N		TTL	P	2	4	42n	BIN,2Sc	2.0*	80Δ	8.0m	.50	0.0	5.0	200m	0	7	74LS261	DL16bp	
27	S54LS261F		TTL	P	2	4	42n	BIN,2Sc	2.0*	70Δ	4.0m	.40	0.0	5.0	200m	5	C	74LS261	DL16aw	
28	S54LS261W		TTL	P	2	4	42n	BIN,2Sc	2.0*	70Δ	4.0m	.40	0.0	5.0	200m	5	C	54LS261	FP47g	
29	SN54LS261J		TTL	P	2	4	42n	BIN	2.0*	70Δ	4.0m	.40	0.0	5.0	190m%	5	C	74LS261	DL16v	
30	SN54LS261W		TTL	P	2	4	42n	BIN	2.0*	70Δ	4.0m	.40	0.0	5.0	190m%	5	C	54LS261	MO004AG	
31	SN74LS261J		TTL	P	2	4	42n	BIN	2.0*	80Δ	8.0m	.50	0.0	5.0	200m%	0	7	74LS261	DL16v	
32	SN74LS261N		TTL	P	2	4	42n	BIN	2.0*	80Δ	8.0m	.50	0.0	5.0	200m%	0	7	74LS261	DL16i	
33	AM2505DC		TTL	P	2	4	63n	2SC	2.0*	80Δ	9.6m	.40	0.0	5.0	725m%	0	7	X00-11	DL24t	
34	AM2505DM		TTL	P	2	4	63n	2SC	2.0*	80Δ	9.6m	.40	0.0	5.0	650m%	5	C	X00-11	DL24t	
35	AM2505FM		TTL	P	2	4	63n	2SC	2.0*	80Δ	9.6m	.40	0.0	5.0	650m%	5	C	X00-11	FP105	
36	AM2505PC		TTL	P	2	4	63n	2SC	2.0*	80Δ	9.6m	.40	0.0	5.0	725m%	0	7	X00-11	DL24g	
37	AM25L05DC		TTL	P	2	4	142n	2SC	2.0*	70Δ	4.9m	.30	0.0	5.0	225m%	0	7	X00-12	DL24t	
38	AM25L05DM		TTL	P	2	4	142n	2SC	2.0*	70Δ	4.9m	.30	0.0	5.0	225m%	5	C	X00-12	DL24t	
39	AM25L05FM		TTL	P	2	4	142n	2SC	2.0*	70Δ	4.9m	.30	0.0	5.0	225m%	5	C	X00-12	FP105	
40	AM25L05PC		TTL	P	2	4	142n	2SC	2.0*	70Δ	4.9m	.30	0.0	5.0	225m%	0	7	X00-12	DL24g	
41	DM7875AD,BD		TTL	P	4	4	60n	BIN	2.0*	80Δ	16m	.40	0.0	5.0	375m†	5	C	X00-6	DL16bz	
42	DM7875AJ#mil		TTL	P	4	4	60n	BIN	2.0*	0.8	16m	0.4				5	C	X00-6	DL16au	
43	DM7875AW#mil		TTL	P	4	4	60n	BIN	2.0	0.8	16m	0.4				5	C	X00-6	FP98b	
44	DM7875BJ#mil		TTL	P	4	4	60n	BIN	2.0	0.8	16m	0.4				5	C	X00-6	DL16au	
45	DM7875BW#mil		TTL	P	4	4	60n	BIN	2.0	0.8	16m	0.4				5	C	X00-6	FP98b	
46	DM8875AJ,BJ		TTL	P	4	4	60n	BIN	2.0*	80Δ	16m	.40	0.0	5.0	375m†	0	7	X00-6	DL16ai	
47	DM8875AN,BN		TTL	P	4	4	60n	BIN	2.0*	80Δ	16m	.40	0.0	5.0	375m†	0	7	X00-6	DL16bu	
48	SN54284J		TTL	P	4	4	60n	BIN	2.0*	80Δ	16m	.45	0.0	5.0	550m%	5	C	74-284	DL16v	
49	SN54284W		TTL	P	4	4	60n	BIN	2.0*	80Δ	16m	.45	0.0	5.0	550m%	5	C	54-284	MO004AG	
50	SN54285J		TTL	P	4	4	60n	BIN	2.0*	80Δ	16m	.45	0.0	5.0	550m%	5	C	74-285	DL16v	
51	SN54285W		TTL	P	4	4	60n	BIN	2.0*	80Δ	16m	.45	0.0	5.0	550m%	5	C	54-285	MO004AG	
52	SN74284J		TTL	P	4	4	60n	BIN	2.0*	80Δ	16m	.45	0.0	5.0	650m%	0	7	74-284	DL16v	
53	SN74284N		TTL	P	4	4	60n	BIN	2.0*	80Δ	16m	.45	0.0	5.0	650m%	0	7	74-284	DL16i	
54	SN74285J		TTL	P	4	4	60n	BIN	2.0*	80Δ	16m	.45	0.0	5.0	650m%	0	7	74-285	DL16v	
55	SN74285N		TTL	P	4	4	60n	BIN	2.0*	80Δ	16m	.45	0.0	5.0	650m%	0	7	74-285	DL16i	
56	SN74S274J		TTL	P	4	4	70n	BIN	2.0*	80Δ	12m	.50	0.0	5.0	775m†	0	7	74S274	DLZ	
57	SN74S274N		TTL	P	4	4	95n	BIN	2.0*	80Δ	12m	.50	0.0	5.0	775m†	0	7	74S274	DLZ	
58	57558-1F42#mil		TTL	P	8	8		2SC/USM	2.0*	0.8Δ	8.0m	0.5	0.0	5.0		5	C	X00-39	FPZ	
59	57558-1J40#mil		TTL	P	8	8		2SC/USM	2.0*	0.8Δ	8.0m	0.5	0.0	5.0		5	C	X00-39	DL40X	
60	57558F42#mil		TTL	P	8	8		2SC/USM	2.0*	0.8Δ	8.0m	0.5	0.0	5.0		5	C	X00-39	FPZ	
61	57558J40#mil		TTL	P	8	8		2SC/USM	2.0*	0.8Δ	8.0m	0.5	0.0	5.0		5	C	X00-39	DL40X	
62	67558-1F42		TTL	P	8	8		2SC/USM	2.0*	0.8Δ	8.0m	0.5	0.0	5.0		0	7	X00-39	FPZ	
63	67558-1J40		TTL	P	8	8		2SC/USM	2.0*	0.8Δ	8.0m	0.5	0.0	5.0		0	7	X00-39	DL40X	
64	67558F42		TTL	P	8	8		2SC/USM	2.0*	0.8Δ	8.0m	0.5	0.0	5.0		0	7	X00-39	FPZ	
65	67558J40		TTL	P	8	8		2SC/USM	2.0*	0.8Δ	8.0m	0.5	0.0	5.0		0	7	X00-39	DL40X	
66	67558		TTL	P	8	8	40n	2SC	2.0*	80Δ	18m	2.4	0.0	5.0	140m	0	7		DLZ	
67	67558-1		TTL	P	8	8	40n	2SC	2.0*	80Δ	18m	2.4	0.0	5.0	140m	0	7		DLZ	
68	Am25S557DC		TTL	P	8	8	45n	2SC	2.0*	80Δ			0.0	5.0		0	7	X00-39	DL40e	
69	Am25S557DM		TTL	P	8	8	45n	2SC	2.0*	80Δ			0.0	5.0		5	C	X00-39	DL40e	
70	Am25S558DC		TTL	P	8	8	45n	2SC	2.0*	80Δ			0.0	5.0		0	7	X0039a	DL40e	
71	Am25S558DM		TTL	P	8	8	45n	2SC	2.0*	80Δ			0.0	5.0		5	C	X0039a	DL40e	
72	57558		TTL	P	8	8	50n	2SC	2.0*	80Δ	18m	2.4	0.0	5.0	140m	0	7		DLZ	
73	57558-1		TTL	P	8	8	50n	2SC	2.0*	80Δ	18m	2.4	0.0	5.0	140m	0	7		DLZ	
74	SBP9708CJ		TTL	P	8	8	325n	2SC	2.0*	80Δ			0.0	5.0		0	7	X00-42	DL16Z	
75	SBP9708CN		TTL	P	8	8	325n	2SC	2.0*	80Δ			0.0	5.0		0	7	X00-42	DL16i	
76	SBP9708EJ		TTL	P	8	8	325n	2SC	2.0*	80Δ			0.0	5.0		4	8	X00-42	DL16Z	
77	SBP9708MJ		TTL	P	8	8	325n	2SC	2.0*	80Δ			0.0	5.0		5	C	X00-42	DL16Z	
78	WTL1010#ai		TTL	P	16	16		USM	2.0	0.8			0.0	5.0	2.5			X00-21	DL64ZJ	
79	SN54LS384J		TTL	SP	1	8		2SC	2.0*	70Δ			0.0	5.0		5	C	74LS384	DL16v	
80	SN54LS384W		TTL	SP</																

16. MULTIPLIERS

IN ORDER OF:(1)TECHNOLOGY(2)MODE(3)LO BIT ARRAY(4)PROPAGATION DELAY(5)TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	MODE	BIT ARRAY		MAX PROP. DELAY (S)	ARITHMETIC CAPABILITY	LOGIC LEVEL		MINIMUM SINK CURRENT		POWER SUPPLY SPAN		MAX. OPER. POWER DISS. (W)	OPER. TEMP. RANGE CODE		DRAWINGS	
					LO	HI			MIN. '1' (V)	MAX. '0' (V)	@ V _o	NEG. (V)	POS (V)	-		+	LOGIC OR BLOCK	OUTLINE	
																			LO	HI
1	TDC1008J4F		TTL	P	8	8	125nT	2SC,PDA,DP	2.0*§	.80Δ	4.0m	.50	0.0	5.0	1.9	5	C	X00-19	DL48a
2	MPY008AJ5C		TTL	P	8	8	130nT	2SC,DP	2.0*§	.80Δ	4.0m	.50	0.0	5.0	1.8	0	7	X00-14a	DL40d
3	MPY008AJ5F		TTL	P	8	8	130nT	2SC,DP	2.0*§	.80Δ	4.0m	.50	0.0	5.0	1.8	5	C	X00-14a	DL40d
4	SN54S508TD24		TTL	P	8	8	800nT	2SC	2.0	0.8	8.0m	0.5	0.0	5.0		5	C	X00-46	DL24bl
5	SN74S508TD24		TTL	P	8	8	800nT	2SC	2.0	0.8	8.0m	0.5	0.0	5.0		0	7	X00-46	DL24bl
6	TDC1009J1C		TTL	P	12	12	145nT	2SC,PDA,DP	2.0*§	.80Δ	4.0m	.50	0.0	5.0	3.2	0	7	X00-23	DL64a
7	MPY012AF2C		TTL	P	12	12	150nT	2SC,DP	2.0*§	.80Δ	4.0m	.50	0.0	5.0	3.8			X00-15a	FP137
8	MPY012AJ2C		TTL	P	12	12	150nT	2SC,DP	2.0*§	.80Δ	4.0m	.50	0.0	5.0	3.8			X00-15	DL64a
9	MPY012AJ2F		TTL	P	12	12	150nT	2SC,DP	2.0*§	.80Δ	4.0m	.50	0.0	5.0	4.5	5	C	X00-15	DL64a
10	TDC1009J1F		TTL	P	12	12	170nT	2SC,PDA,DP	2.0*§	.80Δ	4.0m	.50	0.0	5.0	3.8	5	C	X00-23	DL64a
11	TDC1003J2C		TTL	P	12	12	200nT	2SC,PDA,DP	2.0*§	.80Δ	4.0m	.50	0.0	5.0	3.8	0	7	X00-20	DL64a
12	TDC1003J		TTL	P	12	12	200nT	PDA/2SC	2.0	.8	4.0m	.50	-0.5	7.0		0	7	X00-20	DL64a
13	TDC1043(A)		TTL	P	16	16	100nT	25C/USM	2.0	.8			-0.5	7.0		5	C	X00-48	DL64c
14	MPY016AF2C		TTL	P	16	16	160nT	2SC,DP	2.0*§	.80Δ	4.0m	.50	0.0	5.0	5.0	0	7	X00-16	FP137
15	MPY016AJ2C		TTL	P	16	16	160nT	2SC,DP	2.0*§	.80Δ	4.0m	.50	0.0	5.0	5.0			X00-16	DL64a
16	MPY016AJ2F		TTL	P	16	16	160nT	2SC,DP	2.0*§	.80Δ	4.0m	.50	0.0	5.0	6.0	5	C	X00-16	DL64a
17	TDC1010J1C		TTL	P	16	16	165nT	2SC,PDA,DP	2.0*§	.80Δ	4.0m	.50	0.0	5.0	4.5	0	7	X00-21	DL64a
18	TDC1010J1F		TTL	P	16	16	200nT	2SC,PDA,DP	2.0*§	.80Δ	4.0m	.50	0.0	5.0	5.3	5	C	X00-21	DL64a

17. MAGNITUDE COMPARATORS

IN ORDER OF: (1) TECHNOLOGY (2) TYPE CODE (3) BIT
(4) PROPAGATION DELAY (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	1] T C O D E	2] P R O P A G A T I O N D E L A Y (S)	3] M A X. P R O P. D E L A Y (S)	4] C O M P A R E S C O D E	LOGIC LEVEL		MINIMUM SINK CURRENT		POWER SUPPLY SPAN		MAX. OPER. POWER DISS. (W)	OPER. TEMP. RANGE CODE	DRAWINGS		
								MIN. '1' (V)	MAX. '0' (V)	(A)	@ V _o	NEG. (V)	POS. (V)			LOGIC OR BLOCK	OUTLINE	
1	SN54LS688J#mil		M	M	8	18n	BCD,BIN	2.0*	0.7Δ			0	5.0		5	C	N00-34	DL20g
2	SN74LS688J		M	M	8	18n	BCD,BIN	2.0*	0.8Δ			0	5.0		0	7	N00-34	DL20g
3	SN74LS688N		M	M	8	18n	BCD,BIN	2.0*	0.8Δ			0	5.0		0	7	N00-34	DL20h
4	SN54LS682J#mil		M	M	8	25n	BCD,BIN	2.0*	0.7Δ			0	5.0		5	C	N00-32	DL20g
5	SN54LS684J#mil		M	M	8	25n	BCD,BIN	2.0*	0.7Δ			0	5.0		5	C	N00-32	DL20g
6	SN74LS682J		M	M	8	25n	BCD,BIN	2.0*	0.8Δ			0	5.0		0	7	N00-32	DL20g
7	SN74LS684J		M	M	8	25n	BCD,BIN	2.0*	0.8Δ			0	5.0		0	7	N00-32	DL20g
8	SN74LS684N		M	M	8	25n	BCD,BIN	2.0*	0.8Δ			0	5.0		0	7	N00-32	DL20h
9	SN74LS687J		M	M	8	35n	BCD,BIN	2.0*	0.8Δ			0	5.0		0	7	N00-33	DL24bc
10	SN74LS687N		M	M	8	35n	BCD,BIN	2.0*	0.8Δ			0	5.0		0	7	N00-33	DL24bd
11	SN54LS689J#mil		M	M	8	40n	BCD,BIN	2.0*	0.7Δ			0	5.0		5	C	N00-34	DL20g
12	SN74LS689J		M	M	8	40n	BCD,BIN	2.0*	0.8Δ			0	5.0		0	7	N00-34	DL20g
13	SN74LS689N		M	M	8	40n	BCD,BIN	2.0*	0.8Δ			0	5.0		0	7	N00-34	DL20h
14	SN54LS683J#mil		M	M	8	45n	BCD,BIN	2.0*	0.7Δ			0	5.0		5	C	N00-32	DL20g
15	SN54LS685J#mil		M	M	8	45n	BCD,BIN	2.0*	0.7Δ			0	5.0		5	C	N00-32	DL20g
16	SN74LS682N		M	M	8	45n	BCD,BIN	2.0*	0.8Δ			0	5.0		0	7	N00-32	DL20b
17	SN74LS683J		M	M	8	45n	BCD,BIN	2.0*	0.8Δ			0	5.0		0	7	N00-32	DL20g
18	SN74LS683N		M	M	8	45n	BCD,BIN	2.0*	0.8Δ			0	5.0		0	7	N00-32	DL20b
19	SN74LS685J		M	M	8	45n	BCD,BIN	2.0*	0.8Δ			0	5.0		0	7	N00-32	DH20g
20	SN74LS685N		M	M	8	45n	BCD,BIN	2.0*	0.8Δ			0	5.0		0	7	N00-32	DL20h
21	MM54C85D		M	M	4		BIN,BCD	8.0*	2.0Δ			0.0	10	500m	5	C	N00-5	DL16bz
22	MM74C85N	CMS	M	M	4		BIN,BCD	8.0*	2.0Δ			0.0	10	500m	0	7	74L85N	DL16bu
23	MC54HC85J(A)	CMS	M	M	4	25n		3.8	1.1			0.0	6.0	500m	5	C	74-85	DL16ao
24	MC74HC85J(A)	CMS	M	M	4	25n		3.8	1.1			0.0	6.0	500m	4	8	74-85	DL16ao
25	MC74HC85N(A)	CMS	M	M	4	25n		3.8	1.1			0.0	6.0	500m	4	8	74-85	DL16dp
26	340085DC	CMS	M	M	4	50n	BIN,BCD	10.5*	4.5Δ	3.6m	.50	0.0	15	400m	4	8	N00-18	DL16cj
27	340085DM	CMS	M	M	4	50n	BIN,BCD	10.5*	4.5Δ	3.6m	.50	0.0	15	400m	5	C	N00-18	DL16cj
28	340085FC	CMS	M	M	4	50n	BIN,BCD	10.5*	4.5Δ	3.6m	.50	0.0	15	400m	4	8	N00-18	FP103
29	340085FM	CMS	M	M	4	50n	BIN,BCD	10.5*	4.5Δ	3.6m	.50	0.0	15	400m	5	C	N00-18	FP103
30	340085PC	CMS	M	M	4	50n	BIN,BCD	10.5*	4.5Δ	3.6m	.50	0.0	15	400m	4	8	N00-18	*
31#	HEF4585	CMS	M	M	4	80n	BIN,BCD	11*	4.0Δ	3.0m	1.5	0.0	15	400m	4	8	45-85B	DL16at
32#	HEF4585BDF	CMS	M	M	4	80n	BIN,BCD	11.0*	4.0Δ	3.0m	1.5	0.0	15	400m	4	8	N00-18	DL16at
33#	HEF4585BPN	CMS	M	M	4	80n	BIN,BCD	11.0*	4.0Δ	3.0m	1.5	0.0	15	400m	4	8	N00-18	DL16cc
34#	HEF4585BTD	CMS	M	M	4	90n	BIN,BCD	11.0*	4.0Δ	3.0m	1.5	0.0	15	200m	4	8	N00-18	FP148
35	40085BDC	CMS	M	M	4	112n	BIN,BCD	11*	4.0Δ	3.0m	1.5	0.0	15	9.0m	4	8	N00-18	DL16cj
36	40085BDM	CMS	M	M	4	112n	BIN,BCD	11*	4.0Δ	3.4m	1.5	0.0	15	9.0m	5	C	N00-18	DL16cj
37	40085BFC	CMS	M	M	4	112n	BIN,BCD	11*	4.0Δ	3.0m	1.5	0.0	15	9.0m	4	8	N00-18	FP103
38	40085BFM	CMS	M	M	4	112n	BIN,BCD	11*	4.0Δ	3.4m	1.5	0.0	15	9.0m	5	C	N00-18	FP103
39	40085BPC	CMS	M	M	4	112n	BIN,BCD	11*	4.0Δ	3.0m	1.5	0.0	15	9.0m	4	8	N00-18	*
40	CD4585BD	CMS	M	M	4	130n	BIN,BCD	11*	4.0Δ	3.4m	1.5	0.0	15	500m	5	C	45-85B	MO001AE
41	CD4585BE	CMS	M	M	4	130n	BIN,BCD	11*	4.0Δ	3.4m	1.5	0.0	15	500m	4	8	45-85B	MO001AC
42	CD4585BF	CMS	M	M	4	130n	BIN,BCD	11*	4.0Δ	3.4m	1.5	0.0	15	500m	5	C	45-85B	MO001AC
43	CD4585BH	CMS	M	M	4	130n	BIN,BCD	11*	4.0Δ	3.4m	1.5	0.0	15	500m	5	C	N00-26	CH127
44	883/4585B	CMS	M	M	4	160n	BCD/BIN	8.21	6.7	3.4m	1.5	0.0	15	300m	5	C	45-85	MO001AG
45	CD4063BD	CMS	M	M	4	175n	BIN,BCD	11*	4.0Δ	3.4m	1.5	0.0	15	200m	5	C	40-63B	MO001AE
46	CD4063BE	CMS	M	M	4	175n	BIN,BCD	11*	4.0Δ	3.4m	1.5	0.0	15	200m	4	8	40-63B	MO001AC
47	CD4063BF	CMS	M	M	4	175n	BIN,BCD	11*	4.0Δ	3.4m	1.5	0.0	15	200m	5	C	40-63B	MO001AC
48#	HCC4063BD	CMS	M	M	4	175n	BIN,BCD	11*	4.0Δ	3.4m	1.5	0.0	15	200m	5	C	40-63B	DL16cm
49#	HCC4063BF	CMS	M	M	4	175n	BIN,BCD	11*	4.0Δ	3.4m	1.5	0.0	15	200m	5	C	40-63B	DL16aq
50#	HCC4063BK	CMS	M	M	4	175n	BIN,BCD	11*	4.0Δ	3.4m	1.5	0.0	15	200m	5	C	40-63B	FP131
51#	HCF4063BE	CMS	M	M	4	175n	BIN,BCD	11*	4.0Δ	3.4m	1.5	0.0	15	200m	4	8	40-63B	DL16bj
52#	HCF4063BF	CMS	M	M	4	175n	BIN,BCD	11*	4.0Δ	3.4m	1.5	0.0	15	200m	4	8	40-63B	DL16aq
53	MC14585BAL	CMS	M	M	4	220n	BIN,BCD	11.0*	4.0Δ	3.0m	1.5	0.0	15	.30m	5	C	45-85B	DL16aj
54	SCL4585B	CMS	M	M	4	250n	BIN,BCD	9.95*	.05Δ	1.3m	.50	0.0	10	100%	5	C	45-85B	DL16ar
55	MC14585BCL	CMS	M	M	4	330n	BIN,BCD	11.0*	4.0Δ	3.0m	1.5	0.0	15	1.2m	4	8	45-85B	DL16aj
56	MC14585BCP	CMS	M	M	4	330n	BIN,BCD	11.0*	4.0Δ	3.0m	1.5	0.0	15	1.2m	4	8	45-85B	DL16bo
57#	M4063BP	CMS	M	M	4	390n	BIN,BCD	11.0*	4.0Δ	2.4m	1.5	0.0	18	0.5	4	8	74-85	DL16bd
58#	TC4063BP	CMS	M	M	4	400n	BIN,BCD	14.9*	.05Δ	3.0m	1.5	0.0	15	300m	4	8	40-63B	DL16cr
59#	M4585BP	CMS	M	M	4	600n	BIN,BCD	11.0*	4.0Δ	2.4m	1.5	0.0	18	0.5	4	8	74L85	DL16bd
60#	TC4585BP	CMS	M	M	4	600n	BIN,BCD	14.9*	.05Δ	3.0m	1.5	0.0	15	300m	4	8	45-85B	DL16cr
61#	MSM582RS	CMS	M	M	4	1.0u	BIN	3.6*	0.8*	1.6m	0.4	0.0	7.0	200m	3	8	N00-31	DL16cq
62#	MSM4585RS	CMS	M	M	4	1.2u	BIN	3.6*	1.0Δ	1.0m	0.3	0.0	16	200m	4	8	N00-5	DL16qj
63	343AJ	DTL	M	M	4	1.0u	BIN,BCD	13*	.40Δ	400u	.80	0.0	15		3	7	N00-21	DL16bq
64	343AL	DTL	M	M	4	1.0u	BIN,BCD	13*	.40Δ	400u	.80	0.0	15		3	7	N00-21	DL16ad
65	343CL	DTL	M	M	4	1.0u	BIN,BCD	10*	.40Δ	400u	.80	0.0	12		3	8	N00-21	DL16bq
66	343DL	DTL	M	M	4	1.0u	BIN,BCD	10*	.40Δ	400u	.80	0.0	12		3	8	N00-21	DL16ad
67	MC10H166L(A)	ECL	M	M	5	3.8n	BIN	-81	-1.9			5.2	0.0	440m	0	7	N00-8	DL16ao
68	MC10H166P(A)	ECL	M	M	5	3.8n	BIN	-81	-1.9			5.2	0.0	440m	0	7	N00-8	DL16dp
69#	HXA100166D	ECL	M	M	9	2.2n	BIN	-1.8	-.88			4.5	0	720m	0	8	N00-24	DL16z
70#	HXA100166F	ECL	M	M	9	2.2n	BIN	-1.8	-.88			4.5	0	720m	0	8	N00-24	FP12
71#	100166F	ECL	M	M	9	4.3n	BIN	1.02*	1.62Δ			5.7	0.0	720m	0	8	N00-24	FP149
72	F100166DC	ECL	M	M	9	4.3n	BIN	-1.1*	-1.4Δ	20m	-1.0	4.5	0.0	1.2	0	7	N00-24	DL24an
73	F100166FC	ECL	M	M	9	4.3n	BIN	-1.1*	-1.4Δ	20m	-1.0	4.5	0.0	1.2	0	7	N00-24	FP126
74#	HD100166	ECL	M	M	9	4.3n	BIN	-1.2*	-1.5Δ			5.7	0.0	40m	0	8	N00-24	DL24aw
75#	HD100166F	ECL	M	M	9	4.3n	BIN	-1.2*	-1.5Δ			5.7	0.0	40m	0	8	N00-24	FP146
76#	HXA220-402	ECL	U	M	8	4.6n	BIN	0.9	1.7C			4.5	0.0		3	C	N00-41	DL64zj
77	F10166DC	ECL	M	M	5	6.5n	BIN	-.96*	-1.6	20m	-.96	5.2	0.0	390m	0	7	N00-23	DL16cj
78	F10566DM	ECL	M	M	5	6.5n	BIN	-.93*	-1.6	10m	-.93	5.2	0.0	390m	0	7	N00-23	DL16cj
79	F10566FM	ECL	M	M	5	6.5n	BIN	-.93*	-1.6	10m	-.93	5.2	0.0	390m	0	7	N00-23	FP103
80	MC10166L	ECL	M	M	5	7.6n	BIN	-.96*	-1.6Δ	20m	-.96	5.2	0.0	551m	3	8	N00-8	DL16am
81	MC10166P	ECL	M	M	5	7.6n	BIN	-.96*	-1.6Δ	20m	-.96	5.2	0.0	551m	3	8	N00-8	DL16bo
82	LS7240	PCH	I	I	4		BCD/HEX	10.5*	4.5Δ	17u	0.4	0.0	15		2			

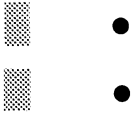
17. MAGNITUDE COMPARATORS

IN ORDER OF: (1) TECHNOLOGY (2) TYPE CODE (3) BITS
(4) PROPAGATION DELAY (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	T O C O D E	B I T S	MAX. PROP. DELAY (S)	COMPARES CODE	LOGIC LEVEL		MINIMUM SINK CURRENT		POWER SUPPLY SPAN		MAX. OPER. POWER DISS. (W)	OPER. TEMP. RANGE CODE	DRAWINGS	
								MIN. '1' (V)	MAX. '0' (V)	@ Vo	NEG. (V)	POS. (V)	LOGIC OR BLOCK			OUTLINE	
1#	MB448		TTL	M	4			2.0*	80Δ			0.0	5.0	230m†		74L85N	DL16ak
2#	MB448M		TTL	M	4			2.0*	80Δ			0.0	5.0	230m†		74L85N	DL16ap
3#	HD74LS85		TTL	M	4	16n	BIN,BCD	2.0*	80Δ	8.0m	.50	0.0	5.0	400m			DL16bc
4#	HD74LS85P		TTL	M	4	16n	BIN,BCD	2.0*	80Δ	8.0m	.50	0.0	5.0	400m			DL16bc
5#	N74S85D		TTL	M	4	18n	BIN,BCD	2.0*	0.8Δ	20m	0.5	0.0	5.0	575m		74-85N	DL16aw
6	N74S85N		TTL	M	4	18n	BIN,BCD	2.0*	80Δ	20m	.50	0.0	5.0	575m		74-85N	DL16bp
7	S54S85F		TTL	M	4	18n	BIN,BCD	2.0*	80Δ	20m	.50	0.0	5.0	575m			DL16aw
8	S54S85W		TTL	M	4	18n	BIN,BCD	2.0*	80Δ	20m	.50	0.0	5.0	575m			FP47g
9	SN54S85J		TTL	M	4	18n	BIN,BCD	2.0*	80Δ	20m	.50	0.0	5.0	575m%			DL16v
10	SN54S85W		TTL	M	4	18n	BIN,BCD	2.0*	80Δ	20m	.50	0.0	5.0	550m%			MO004AG
11	SN74S85J		TTL	M	4	18n	BIN,BCD	2.0*	80Δ	20m	.50	0.0	5.0	575m%			DL16v
12	SN74S85N		TTL	M	4	18n	BIN,BCD	2.0*	80Δ	20m	.50	0.0	5.0	575m%			DL16i
13	DM5485J#mil		TTL	M	4	23n	BCD	2.0	0.8			0	7.0	275m			DL16au
14	DM5485W#mil		TTL	M	4	23n	BCD	2.0	0.8			0	7.0	275m			N00-9
15	DM54LS85J#mil		TTL	M	4	24n	BCD	2.0	0.8			0	7.0	52m			N00-9
16	DM54LS85W#mil		TTL	M	4	24n	BCD	2.0	0.8			0	7.0	52m			N00-9
17	DM74LS85N		TTL	M	4	24n	BCD	2.0	0.8			0	7.0	52m			DL16a
18	JANM38510/08201BEA		TTL	M	4	24n	BIN,BCD	2.0*	80Δ	20m	.50	0.0	5.5	605m			DL16br
19	JANM38510/08201BEB		TTL	M	4	24n	BIN,BCD	2.0*	80Δ	20m	.50	0.0	5.5	605m			DL16br
20	JANM38510/08201CEA		TTL	M	4	24n	BIN,BCD	2.0*	80Δ	20m	.50	0.0	5.5	605m			DL16br
21	JANM38510/08201CEB		TTL	M	4	24n	BIN,BCD	2.0*	80Δ	20m	.50	0.0	5.5	605m			DL16br
22	5485DM		TTL	M	4	35n	BCD,BIN	2.0*	80Δ			0.0	5.0	440m			74-85N
23	5485FM		TTL	M	4	35n	BCD,BIN	2.0*	80Δ			0.0	5.0	440m			54-85W
24	DM7485N		TTL	M	4	35n	BIN,BCD	2.0*	80Δ			0.0	5.0	275m†			DL16bu
25#	M53285P		TTL	M	4	35n	BIN,BCD	2.0*	80Δ	16m	.40	0.0	5.0	440m%			DL16bb
26	N7485F		TTL	M	4	35n	BIN,BCD	2.0*	80Δ	16m	.40	0.0	5.0	440m			74-85N
27	N7485N		TTL	M	4	35n	BIN,BCD	2.0*	80Δ	16m	.40	0.0	5.0	440m			DL16bp
28	S5485F		TTL	M	4	35n	BIN,BCD	2.0*	80Δ	16m	.40	0.0	5.0	440m			74-85N
29	S5485W		TTL	M	4	35n	BIN,BCD	2.0*	80Δ	16m	.40	0.0	5.0	440m			54-85W
30#	SFC485E		TTL	M	4	35n	BIN	2.4*	.40Δ	16m	.40	0.0	5.0	440m			DL16ch
31#	SFC485EM		TTL	M	4	35n	BIN	2.4*	.40Δ	16m	.40	0.0	5.0	440m			DL16ch
32#	SFC485ET		TTL	M	4	35n	BIN	2.4*	.40Δ	16m	.40	0.0	5.0	440m			DL16ch
33#	SFC485JM		TTL	M	4	35n	BIN	2.4*	.40Δ	16m	.40	0.0	5.0	440m			DL16ch
34#	SFC485KM		TTL	M	4	35n	BIN	2.4*	.40Δ	16m	.40	0.0	5.0	440m			DL16ch
35	SN5485J		TTL	M	4	35n	BIN,BCD	2.0*	85Δ	16m	.40	0.0	5.0	440m			74-85N
36	SN5485W		TTL	M	4	35n	BIN,BCD	2.0*	85Δ	16m	.40	0.0	5.0	440m			54-85W
37	SN7485J		TTL	M	4	35n	BIN,BCD	2.0*	85Δ	16m	.40	0.0	5.0	440m			DL16v
38	SN7485N		TTL	M	4	35n	BIN,BCD	2.0*	85Δ	16m	.40	0.0	5.0	440m			DL16i
39	54LS85DM		TTL	M	4	36n	BIN,BCD	2.0*	.70Δ	4.0m	.40	0.0	5.0	100m%			DL16ci
40	54LS85FM		TTL	M	4	36n	BIN,BCD	2.0*	.70Δ	4.0m	.40	0.0	5.0	100m%			54-85
41	74LS85DC		TTL	M	4	36n	BIN,BCD	2.0*	80Δ	8.0m	.50	0.0	5.0	100m%			DL16cj
42	74LS85PC		TTL	M	4	36n	BIN,BCD	2.0*	80Δ	8.0m	.50	0.0	5.0	100m%			74-85N
43#	M74LS85P		TTL	M	4	36n	BIN,BCD	2.0*	80Δ	8.0m†	.50	0.0	5.0	55m†			DL16bm
44	SN54LS85J		TTL	M	4	36n	BIN,BCD	2.0*	.70Δ	4.0m	.40	0.0	5.0	52m%			DL16v
45	SN54LS85W		TTL	M	4	36n	BIN,BCD	2.0*	.70Δ	4.0m	.40	0.0	5.0	52m%			MO004AG
46	SN74LS85J		TTL	M	4	36n	BIN,BCD	2.0*	80Δ	8.0m	.50	0.0	5.0	52m%			74-85
47	SN74LS85N		TTL	M	4	36n	BIN,BCD	2.0*	80Δ	8.0m	.50	0.0	5.0	52m%			DL16i
48	DM7200J		TTL	M	4	40n	BIN	2.0*	80Δ	16m	.40	0.0	5.0	265m			N00-13
49	DM7200N		TTL	M	4	40n	BIN	2.0*	80Δ	16m	.40	0.0	5.0	265m			DL14bt
50	DM7200W		TTL	M	4	40n	BIN	2.0*	80Δ	16m	.40	0.0	5.0	265m			FP97a
51	DM8200J		TTL	M	4	40n	BIN	2.0*	80Δ	16m	.40	0.0	5.0	265m			DL14ax
52	DM8200N		TTL	M	4	40n	BIN	2.0*	80Δ	16m	.40	0.0	5.0	265m			DL14bt
53	N8269F		TTL	M	4	40n	BIN	2.6*	.40Δ	16m	.40	0.0	5.0	278m†			N00-20
54	N8269W		TTL	M	4	40n	BIN	2.6*	.40Δ	16m	.40	0.0	5.0	278m†			FP39e
55	JANM38510/31101BEA		TTL	M	4	42n	BIN,BCD	2.0*	.70Δ	4.0m	.40	0.0	5.5	110m			74-85N
56	JANM38510/31101BEB		TTL	M	4	42n	BIN,BCD	2.0*	.70Δ	4.0m	.40	0.0	5.5	110m			DL16br
57	JANM38510/31101BFA		TTL	M	4	42n	BIN,BCD	2.0*	.70Δ	4.0m	.40	0.0	5.5	110m			FP117
58	JANM38510/31101CEA		TTL	M	4	42n	BIN,BCD	2.0*	.70Δ	4.0m	.40	0.0	5.5	110m			74-85N
59	JANM38510/31101CEB		TTL	M	4	42n	BIN,BCD	2.0*	.70Δ	4.0m	.40	0.0	5.5	110m			DL16br
60	JANM38510/31101CFA		TTL	M	4	42n	BIN,BCD	2.0*	.70Δ	4.0m	.40	0.0	5.5	110m			DL16br
61#	MB74LS85		TTL	M	4	45n	BIN,BCD	2.0*	80Δ	8.0m	.50	0.0	5.0	100m			74-85N
62#	MB74LS85M		TTL	M	4	45n	BIN,BCD	2.0*	80Δ	8.0m	.50	0.0	5.0	100m			DL16as
63#	N74LS85F		TTL	M	4	45n	BIN,BCD	2.0*	80Δ	8m	.50	0.0	5.0	100m			DL16cu
64	N74LS85N		TTL	M	4	45n	BIN,BCD	2.0*	80Δ	8.0m	.50	0.0	5.0	100m			DL16aw
65	S54LS85F		TTL	M	4	45n	BIN,BCD	2.0*	.70Δ	4.0m	.40	0.0	5.0	100m			74-85N
66	S54LS85W		TTL	M	4	45n	BIN,BCD	2.0*	.70Δ	4.0m	.40	0.0	5.0	100m			DL16aw
67	JANM38510/15001BEA		TTL	M	4	49n	BIN,BCD	2.0*	80Δ	16m	.40	0.0	5.0	440m			FP47g
68	JANM38510/15001BEB		TTL	M	4	49n	BIN,BCD	2.0*	80Δ	16m	.40	0.0	5.0	440m			DL16br
69	JANM38510/15001BFA		TTL	M	4	49n	BIN,BCD	2.0*	80Δ	16m	.40	0.0	5.0	440m			DL16br
70	JANM38510/15001BFB		TTL	M	4	49n	BIN,BCD	2.0*	80Δ	16m	.40	0.0	5.0	440m			FP117
71	JANM38510/15001CEA		TTL	M	4	49n	BIN,BCD	2.0*	80Δ	16m	.40	0.0	5.0	440m			54-85W
72	JANM38510/15001CEB		TTL	M	4	49n	BIN,BCD	2.0*	80Δ	16m	.40	0.0	5.0	440m			DL16br
73	JANM38510/15001CFA		TTL	M	4	49n	BIN,BCD	2.0*	80Δ	16m	.40	0.0	5.0	440m			DL16br
74	JANM38510/15001CFB		TTL	M	4	49n	BIN,BCD	2.0*	80Δ	16m	.40	0.0	5.0	440m			FP117
75	DM74LS85W		TTL	M	4	59n	BCD	2.0	0.7			0.0	8.0	20m			54-85W
76	DM54L85J		TTL	M	4	115n	BIN	2.0*	.70Δ	2.0m	.30	0.0	5.0	35m			N00-14
77	DM54L85W#mil		TTL	M	4	115n	BIN,BCD	2.0	0.7			0.0	8.0	20m			DL16bz
78	DM74LS85N		TTL	M	4	115n	BIN	2.0*	.70Δ	3.6m	.40	0.0	5.0	35m			FP98b
79	DM78L24J		TTL	M	4	130n	BIN	2.0*	.70Δ	2.0m	.30	0.0	5.0	100m			74LS85N
80	DM78L24N		TTL	M	4	130n	BIN	2.0*	.70Δ	2.0m	.30	0.0	5.0	100m			N00-15
81	DM86L24J		TTL	M	4	130n	BIN	2.0*	.70Δ	3.2m	.40	0.0	5.0	100m			DL16au
82	DM86L24N		TTL	M	4	130n	BIN	2.0*	.70Δ	3.2m	.40	0.0	5.0	100m			N00-15
83	SN54L85J		TTL	M	4	150n	BIN,BCD	2.0*	.70Δ	2.0m	.40	0.0	5.0	98m%			DL16bu
84	N9324F		TTL	M	5	48n	BIN			16m		0.0	5.0	405m			74L85N
85	N9324N		TTL	M	5	48n	BIN			16m		0.0	5.0	405m			N00-4
86	S9324F		TTL	M	5	48n	BIN			16m		0.0	5.0	405m			DL16bp
87	S9324W		TTL	M	5	48n	BIN			16m		0.0	5.0	405m			DL16aw
88	9324DC		TTL	M	5	49n	BIN	1.8*	85Δ	13m	.45	0.0	5.0	375m			FP47g
89	9324DM		TTL	M	5	49n	BIN	1.7*	90Δ	11m	.40	0.0	5.0	3			

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INTRODUCTION TO D.A.T.A. BOOKS

DIGITAL ICs — References more than 14,000 types from 52 worldwide manufacturers. Arranged by primary device parameters. Includes Basic Logic, Timing, Parity and Latch functions. Thousands of logic and outline drawings plus 1,565 military-qualified JAN-prefix types. Published semiannually.

INTERFACE ICs — Electrical, logical, physical and connection data on more than 11,900 state-of-the-art interface ICs from 88 worldwide producers. Conveniently arranged by major device parameters within functional groupings. Logic/Peripheral Drivers; A/D, D/A and Level Converters; Switches/Multiplexers; Receivers and Specialty Sensors. Detailed logic and outline drawings per type listing includes 671 military-qualified JAN-prefix ICs. Published semiannually.

MEMORY ICs — Covers over 11,500 types from 63 manufacturers in six major categories: ROMs, RAMs, Character Generators, Code Converters, Shift Registers and Specialty Devices with Logic and Outline Drawings. Includes 222 military-qualified JAN-prefix devices. Published semiannually.

MICROPROCESSOR ICs — Referencing chip level products that do processing, this title details 6,900 microprocessor, RAM, ROM and interface/support chips. Includes coverage of processor architecture and manufacturers' software support. Drawings and manufacturers' names and addresses are cross-referenced. Published semiannually.

MICROCOMPUTER SYSTEMS — Covering 3,700 devices, this systems book is organized on the common denominator at design level. Bus Structure, Details CPU, Memory, Controller and Data Transfer Boards, grouping others in a Miscellaneous Board section to guarantee comprehensive coverage. Special features include explanation of bus structure features; organization of support boards by function, bus and application; combined physical and block drawings. Published semiannually.

IC FUNCTIONAL EQUIVALENCE GUIDE — References over 20,000 Memory, Digital and Interface Devices from over 200 Manufacturers. Provides Pin for Pin Equivalence; Basic Logic, Timing, Parity and Latch functions. Also covers ROMs, RAMs, Specialty Devices, Logic/Peripheral Drivers and more. Faster and easier selection for alternate sourcing. Functional Equivalence determined by an independent testing laboratory. Published semiannually.

LINEAR ICs — Provides characteristics for over 8,800 IC types from 79 manufacturers in the following categories: Operational, Differential, Audio, Wideband and RF/IF amplifiers; Voltage Regulators and Comparators; plus over 25 Special Application categories. Includes schematic, logic and outline drawings. Over 233 military-qualified JAN-prefix devices. Published semiannually.

MODULES/HYBRIDS — Details over 9,900 linear and interface modules and hybrid devices from 71 worldwide manufacturers. Includes over 6,000 power devices. References operational, differential, RI/IF, sense and wideband amplifiers; voltage regulators and comparators; memory/clock and display devices; A/D, D/A and DC/DC converters. Published semiannually.

AUDIO/VIDEO ICs — Employs unique cross-reference for mass market items. Provides detailed electrical, functional and pictorial information on 2,600 TV Circuits. Audio Amplifiers, Clocks, Calculators, Rhythm Devices, Video Games, etc. from 52 manufacturers. Published semiannually.

POWER SUPPLIES — The new Power Supplies cross-references over 23,900 Linear and Switching Power Supplies and DC/DC Converters from 48 worldwide manufacturers. All types listed by: volts in, amps in, volts out, amps out, operating temperature range, general description and more. All the information you need to take the frustration out of locating a power supply or finding an equivalent substitute. Published semiannually.

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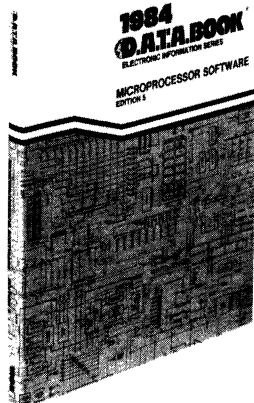
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DISCRETES AND SPECIAL APPLICATIONS

DIODES — Information on 46,600 diodes from 157 manufacturers, including dimensioned outline drawings plus 1,171 military-qualified JAN-prefix devices. Published annually.

TRANSISTORS — 14 technical data sections list over 30,000 type numbers from 133 worldwide manufacturers. Special Mil-Spec Index and dimensioned outline drawings. 533 military-qualified JAN-prefix devices. Published annually.

THYRISTORS — Covers SCRs, Triacs, Shockley Diodes, Gate Turn-off devices, SCSs, Triggers, etc. from 79 manufacturers. 41,500 types with lead designations and dimensioned outline drawings. Includes 89 military-qualified JAN-prefix devices. Published annually.

POWER SEMICONDUCTORS — Covers 57,200 power devices from 157 worldwide sources. Includes Standard and Fast Recovery Rectifiers (10 Amps and up), Power Zeners (10 Watts and up), Power Transistors (1 Amp and up), General Purpose and Inverter SCRs (10 Amps and up) plus package outline drawings and lead code identification. Includes 641 military-qualified JAN-prefix devices. Published annually.

MASTER TYPE LOCATOR — 194,400 types from 12 separate D.A.T.A.BOOK titles. Identifies manufacturer and product class of each type and directs reader to D.A.T.A.BOOK volume where detailed technical data is given. 111 product classes identified. 464 worldwide manufacturers included. Published annually.

APPLICATION NOTES REFERENCE — Order notes from a single source with User Request Cards enclosed in this book. Covers over 4,200 circuits and devices from 96 manufacturers. Published semiannually.

MICROPROCESSOR SOFTWARE — Using a unique standard format with greatly expanded textual descriptions, this book details 2,800 packages for 164 vendors; Resident Software, Cross System Software, System Support Software and Engineering Application. Package information includes language extensions, peripherals required, minimum and maximum memory requirements and more. Descriptive vendor details also included. Published semiannually.

OPTOELECTRONICS — 22 data sections list 17,500 devices and assemblies arranged by primary device parameters and grouped as follows: Emitters, Junction sensors, Photocells, Photocouplers, Displays and Specialty devices such as Gap/Reflex Detectors, CCDs and Fiber Optics components. Schematic and outline drawings. Military JAN-prefix. Published annually.

MICROWAVE — Covers 22,100 semiconductors and tubes from 109 manufacturers. Includes Source, Amplifier, Output and Duplexer tubes; Mixer, Detector, Varactor, Tunnel, PIN and Oscillator diodes; plus UHF/Microwave transistors. Mil-Spec numbers, notes QPL manufacturers, dimensioned outline drawings for semiconductor devices. Published annually.

DISCONTINUED DEVICES

DISCONTINUED TRANSISTORS — Lists over 15,500 types obsolete since 1956. Published annually.

DISCONTINUED DIODES — 32,300 diodes obsolete since 1969. Published annually.

DISCONTINUED THYRISTORS — More than 24,700 devices including SCRs and PNPNs discontinued since 1963 plus specialty thyristors discontinued since 1973. Published annually.

DISCONTINUED OPTOELECTRONICS — For use in substitution when used with the OPTOELECTRONICS D.A.T.A.BOOK. Lists over 7,600 devices obsolete since 1974. Published annually.

DISCONTINUED MICROWAVE — Technical data on over 18,100 devices that became obsolete since 1964. Source, Amplifier, Output and Duplexer Tubes; Microwave Diodes; UHF/Microwave Transistors. Conforms with MICROWAVE D.A.T.A.BOOKS. Published annually.

DISCONTINUED DIGITAL AND AUDIO/VIDEO — A complete index of over 19,200 devices that have become obsolete since 1968, including drawings. This new master index system allows easy cross-reference of obsolete to active devices. Discontinued Digital and Audio/Video gives engineers a fingertip reference to: Diode Arrays/Matrixes, Transistor Arrays, Binary/Flip-Flops, Gates, Multiplexers, Magnitude Comparators, Arithmetic Logic Units, Look-Ahead Carry Generators, Latches and Drivers/Pre-Drivers/Scalers and more. Published annually.

DISCONTINUED INTERFACE AND MEMORY — This referencing system indexes over 14,900 devices obsolete since 1970, including drawings for easy cross-reference of obsolete to active devices. Sections include: Logic Buffers/Drivers, Line Drivers/Transmitters, Peripheral/Power Drivers, A/D and D/A Converters, Logic Level Converters/Level Translators. Analog Gate Switches and Multiplexers, Line Receivers and Transceivers, Schmitt Triggers, Data Acquisitions and more. Published annually.

DISCONTINUED LINEAR — Facilitates substitution when used with LINEAR D.A.T.A.BOOK. Lists 5,800 types obsolete since 1969. Published annually.

DISCONTINUED TYPE LOCATOR — Covers 140,700 obsolete ICs, Transistors, Diodes, Thyristors, Microwave, Optoelectronic and Semiconductor devices to simplify substitution and replacement. Nearly 1,000 Jecdec and Mil-Spec devices. Published annually.

18. ARITHMETIC LOGIC UNITS

IN ORDER OF: (1) TECHNOLOGY (2) BITS (3) NO. OF LOGIC OPER. (4) PROPAGATION DELAY (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	BITS	NO. OF OPER.	MAXIMUM PROPAGATION DELAY (S)	LOGIC LEVEL		MINIMUM SINK CURRENT (A)	POWER SUPPLY SPAN (V)	MAX. OPER. POWER DISS. (W)	FEAT. URES	OPER. TEMP. RANGE CODE	DRAWINGS					
							MIN. '1' (V)	MAX. '0' (V)						LOGIC OR BLOCK	OUTLINE				
																ARI TH.	OPER MODE		
1	CD4057AD		CMS	4	7	9	720n	SUM	9.95*	.05ΔC	90u	.50	0.0	10	100u%	4 MOD	5 C	U00-17	MO015AF
2#	HBC4057AD		CMS	4	7	9	720n	SUM	9.95*	.05ΔC	90u	.50	0.0	10	100u%	4 MOD	5 C	U00-17	MO015AF
3#	HBF4057AD		CMS	4	7	9	720n	SUM	9.95*	.05ΔC	90u	.50	0.0	10	100u%	4 MOD	4 8	U00-17	MO015AF
4	CD40181BD		CMS	4	16	16	140n	LOG	14.9*	.05ΔC	3.4m	1.5	0.0	15	300u%	LACO	5 C	74-181	MO015AA
5	CD40181BE		CMS	4	16	16	140n	LOG	14.9*	.05ΔC	3.4m	1.5	0.0	15	300u%	LACO	4 8	U00-1	MO015AA
6	CD40181BH		CMS	4	16	16	140n	LOG	14.9*	.05ΔC	3.4m	1.5	0.0	15	300u%	LACO	5 C	U00-1	CH131
7	883/4581B		CMS	4	16	16	240n	LOG	8.2	6.7	3.4m	1.5	0.0	15	300m	LACO	5 C	74-181	MO015AA
8	SCL4581B		CMS	4	16	16	370n	SUM	9.99	.01C	1.3m	.50	0.0	15	300m	LACG	5 C	74-181N	
9	MC14581BAL		CMS	4	16	16	375n	DIFF	11.0*	4.0Δ	3.0m	1.5	0.0	15	300u%	LACO	5 C	74-181	DL24u
10	MC14581BCL		CMS	4	16	16	750n	DIFF	11.0*	4.0Δ	3.0m	1.5	0.0	15	1.2m%	LACO	4 8	74-181	DL24u
11	MC14581BCP		CMS	4	16	16	750n	DIFF	11.0*	4.0Δ	3.0m	1.5	0.0	15	1.2m%	LACO	4 8	74-181	DL24o
12	CD40181BF		CMS	4	16	16	800n	LOG	3.5*	1.5Δ	3.4m	1.5	0.0	18	500m	LACO	5 C	74-181	DLZ
13#	HD14581B		CMS	4	16	16	2.0u	LOG	3.5	1.5			0.0	18	300m		4 8	U00-3	DL24ao
14	F100181DC		ECL	4	8	8	5.9n	LOG	-1.1*	-1.4Δ	20m	-1.0	4.5	0.0	1.1 %		0 7	U00-22	DL24an
15	F100181FC		ECL	4	8	8	5.9n	LOG	-1.1*	-1.4Δ	20m	-1.0	4.5	0.0	1.1 %		0 7	U00-22	FP126
16#	HXA100181D#ai		ECL	4	8	8	7.9n	LOG	-1.8	-.88			4.5	0	950m	BCD	0 8	U00-26	DLZ
17#	HXA100181F#ai		ECL	4	8	8	7.9n	LOG	-1.8	-.88			4.5	0	950m	BCD	0 8	U00-26	FPZ
18#	100181Y		ECL	4	8	8	8.6n	LOG	1.02*	1.62ΔC			5.7	0.0	950m†	LACGO	0 8	U00-22	DL24bb
19	MC10H181L(A)		ECL	4	16	16	2.0n	LOG	-.81	-.19			5.2	0.0			0 7	U00-30	DL24be
20	MC10H181LS		ECL	4	16	16	2.0n	LOG	-.81	-.19			5.2	0.0			0 7	U00-30	DL24bf
21	MC10H181P(A)		ECL	4	16	16	2.0n	LOG	-.81	-.19			5.2	0.0			0 7	U00-30	DL24bg
22	MC10H181PS		ECL	4	16	16	2.0n	LOG	-.81	-.19			5.2	0.0			0 7	U00-30	DL24bd
23#	HD10181		ECL	4	16	16	5.0n	LOG	-.81	-.2C			5.2	0.0	200m		3 8	U00-21	DL24ao
24#	GXB10181D		ECL	4	16	16	5.4n	LOG	-.70	-.19			5.2	0.0		LACGO	3 8	U00-8	DL24bi
25#	GXB10181P		ECL	4	16	16	5.4n	LOG	-.70	-.19			5.2	0.0		LACGO	3 8	U00-8	DL24bh
26	MC10182L		ECT	2	4	4	7.5n	SUM	-.96*	-1.6ΔC	20m	-.96	5.2	0.0	718m	LACGO	3 8	U00-9	DL16am
27	MC10182P		ECT	2	4	4	7.5n	SUM	-.96*	-1.6ΔC	20m	-.96	5.2	0.0	718m	LACGO	3 8	U00-9	DL16bo
28	MC10582F		ECT	2	4	4	7.5n	SUM	-.93*	-1.6ΔC	20m	-.93	5.2	0.0	718m	LACGO	5 C	U00-9	FP85
29	MC10582L		ECT	2	4	4	7.5n	SUM	-.93*	-1.6ΔC	20m	-.93	5.2	0.0	718m	LACGO	5 C	U00-9	DL16am
30#	MB10181		ECT	4	4	4	7.5n	SUM	-.96*	-1.6ΔC	20m	-.96	5.2	0.0	600m†		3 8	U00-8	DL24x
31#	MB10181M		ECT	4	4	4	7.5n	SUM	-.96*	-1.6ΔC	20m	-.96	5.2	0.0	600m†		3 8	U00-8	DL24i
32#	GXB10181		ECT	4	16	16	7.0n	SUM	-.88	-1.7C	20m	-.96	5.2	0.0	725m	LACGO	0 7	U00-8	DL24j
33	10181F		ECT	4	16	16	7.0n	SUM	-.96*	-1.6ΔC	20m	-.96	5.2	0.0	725m	LACGO	3 8	U00-8	DL24b
34	F10181DC		ECT	4	16	16	11n	SUM	-.96*	-1.6ΔC	10m	-.96	5.2	0.0	754m%	LACGO	0 7	U00-21	DL24ag
35	F10581DM		ECT	4	16	16	11n	SUM	-.93*	-1.6ΔC	10m	-.96	5.2	0.0	754m%	LACGO	5 C	U00-21	DL24ag
36	F10581FM		ECT	4	16	16	11n	SUM	-.93*	-1.6ΔC	10m	-.96	5.2	0.0	754m%	LACGO	5 C	U00-21	FP66
37	MC10181L		ECT	4	16	16	11n	SUM	-.96*	-1.6ΔC	20m	-.96	5.2	0.0	600m†	LACGO	3 8	U00-8	DL24ak
38	MC10181P		ECT	4	16	16	11n	SUM	-.96*	-1.6ΔC	20m	-.96	5.2	0.0	600m†	LACGO	3 8	U00-8	DL24o
39	MC10581F		ECT	4	16	16	11n	SUM	-.93*	-1.6ΔC	10m	-.93	5.2	0.0	600m†	LACGO	5 C	U00-8	FP85
40	MC10581L		ECT	4	16	16	11n	SUM	-.93*	-1.6ΔC	10m	-.93	5.2	0.0	600m†	LACGO	5 C	U00-8	DL16aj
41	SN74LS381AJ		PCH	4	5	3	36n		2	0.8			4.75	5.25	341m		0 7		
42	SN74LS381AN		PCH	4	5	3	36n		2	0.8			4.75	5.25	341m		0 7		
43#	K155IP3		TTL	4	2	1	33n	SUM	2.4	0.4	150m	.40	0.0	5.0	600m	LACGO	0 7	U00-5	DL24b
44	N8260F		TTL	4	2	1	33n	SUM	2.6*	.40Δ	9.6m	.40	0.0	5.0	600m	LACGO	0 7	U00-5	DL24z
45	N8260N		TTL	4	2	1	33n	SUM	2.6*	.40Δ	9.6m	.40	0.0	5.0	600m	LACGO	0 7	U00-5	DL24z
46	N8260Q		TTL	4	2	1	33n	SUM	2.6*	.40Δ	9.6m	.40	0.0	5.0	600m	LACGO	0 7	U00-5	FP59b
47	S8260F		TTL	4	2	1	33n	SUM	2.6*	.40Δ	9.6m	.40	0.0	5.0	600m	LACGO	5 C	U00-5	DL24b
48	N82S82F		TTL	4	2	2	50n	DIFF	2.6*	.50ΔC	16m	.50	0.0	5.0	610m	BCDA	0 7	U00-7	DL24aa
49	N82S82N		TTL	4	2	2	50n	DIFF	2.6*	.50ΔC	16m	.50	0.0	5.0	610m	BCDA	0 7	U00-7	DL24z
50	S82S82F		TTL	4	2	2	50n	DIFF	2.6*	.50ΔC	16m	.50	0.0	5.0	620m	BCDA	5 C	U00-7	DL24b
51	S82S82N		TTL	4	2	2	50n	DIFF	2.6*	.50ΔC	16m	.50	0.0	5.0	620m	BCDA	5 C	U00-7	DL24z
52	93L40DC		TTL	4	2	2	156n	DIFF	2.0*	.70Δ	4.9m	.30	0.0	5.0	110m†	LACGO	0 7	U00-13	DL24i
53	93L40DM		TTL	4	2	2	156n	DIFF	2.0*	.70Δ	4.9m	.30	0.0	5.0	110m†	LACGO	5 C	U00-13	DL24i
54	93L40FM		TTL	4	2	2	156n	DIFF	2.0*	.70Δ	4.9m	.30	0.0	5.0	110m†	LACGO	5 C	U00-13	FP105
55	93L40PC		TTL	4	2	2	156n	DIFF	2.0*	.70Δ	4.9m	.30	0.0	5.0	110m†	LACGO	0 7	U00-13	DL24g
56	AM25LS381DC		TTL	4	3	3	35n	SUM	2.0*	.80Δ	4.0m	.40	0.0	5.0	246m	LACGO	0 7	74LS381	DL20k
57	AM25LS381DM		TTL	4	3	3	35n	SUM	2.0*	.80Δ	4.0m	.40	0.0	5.0	236m	LACGO	5 C	74LS381	DL20k
58	AM25LS381FM		TTL	4	3	3	35n	SUM	2.0*	.80Δ	4.0m	.40	0.0	5.0	236m	LACGO	5 C	74LS381	FP143
59	AM25LS381PC		TTL	4	3	3	35n	SUM	2.0*	.80Δ	4.0m	.40	0.0	5.0	246m	LACGO	0 7	74LS381	DL20m
60	AM25LS2517DC		TTL	4	3	3	35n	SUM	2.0*	.80Δ	4.0m	.40	0.0	5.0	246m	Ovrrl	0 7	74LS382	DL20k
61	AM25LS2517DM		TTL	4	3	3	35n	SUM	2.0*	.80Δ	4.0m	.40	0.0	5.0	236m	Ovrrl	5 C	74LS382	DL20k
62	AM25LS2517FM		TTL	4	3	3	35n	SUM	2.0*	.80Δ	4.0m	.40	0.0	5.0	236m	Ovrrl	5 C	74LS382	FP143
63	AM25LS2517PC		TTL	4	3	3	35n	SUM	2.0*	.80Δ	4.0m	.40	0.0	5.0	246m	Ovrrl	0 7	74LS382	DL20m
64	SN54LS381J		TTL	4	3	3	40n	SUM	2.0*	.80Δ	4.0m	.40	0.0	5.0	236m	LACGO	5 C	74LS381	DL20b
65	SN54LS381W		TTL	4	3	3	40n	SUM	2.0*	.80Δ	4.0m	.40	0.0	5.0	236m	LACGO	5 C	74LS381	FP143
66	SN74LS381J		TTL	4	3	3	40n	SUM	2.0*	.80Δ	4.0m	.40	0.0	5.0	236m	LACGO	0 7	74LS381	DL20b
67	SN74LS381N		TTL	4	3	3	40n	SUM	2.0*	.80Δ	4.0m	.40	0.0	5.0	236m	LACGO	0 7	74LS381	DL20a
68	SN54S381J		TTL	4	4	8	25n	LOG	2.0*	.80Δ	.01m	2.0	0.0	5.0	800m	LACGO	5 C	74LS381	DLZ
69	SN74S381J		TTL	4	4	8	25n	LOG	2.0*	.80Δ	.01m	2.0	0.0	5.0	800m	LACGO	0 7	74LS381	DLZ
70	SN54LS382J		TTL	4	5	3	33n		2.0*	.80Δ			0.0	5.0			5 C	74LS382	DL20b
71	SN74LS382J		TTL	4	5	3	33n		2.0*	.80Δ			0.0	5.0			0 7	74LS382	DL20b
72	SN74LS382N		TTL	4	5	3	33n		2.0*	.80Δ			0.0	5.0			0 7	74LS382	DL20a
73	9340DC		TTL	4	6	2	33n	DIFF	1.8*	.85Δ	16m	.45	0.0	5.0	425m†	LACGO	0 7	U00-13	DL24ag
74	9340DM		TTL	4	6	2	33n	DIFF	1.7*	.90Δ	16m	.40	0.0	5.0	425m†	LACGO	5 C	U00-13	DL24ag
75	9340FM		TTL	4	6	2	33n	DIFF	1.7*	.90Δ	16m	.40	0.0	5.0	425m†	LACGO	5 C	U00-13	FP66
76	9340PC		TTL	4	6	2	33n	DIFF	1.8*	.85Δ	16m	.45	0.0	5.0	425m†	LACGO	0 7	U00-13	DL24ah
77#	HD100181F		TTL	4	8.0	8.0	7.1n		-1.1*	-1.5Δ									

18. ARITHMETIC LOGIC UNITS

IN ORDER OF: (1) TECHNOLOGY (2) BITS (3) NO. OF LOGIC OPER. (4) PROPAGATION DELAY (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	BITS	NO. OF OPER.		MAXIMUM PROPAGATION DELAY		LOGIC LEVEL		MINIMUM SINK CURRENT		POWER SUPPLY SPAN		MAX. OPER. POWER DISS. (W)	FEAT-URES	OPER. TEMP. RANGE CODE	DRAWINGS		
					3	ARI TH.	(S)	OPER MODE	MIN. '1' (V)	MAX. '0' (V)	(A)	@ Vo	NEG. (V)	POS. (V)				LOGIC OR BLOCK	OUTLINE	
					LOG				(V)	(V)	(A)		(V)	(V)						
1	SN54AS881AJT #mil		TTL	4	16	16	26n	LOG	2.0	0.8			0	7.0	LACGO	5	C	U00-1	DL24bf	
2	9341DC		TTL	4	16	16	27n	DIFF	2.0*	.80Δ	16m	.40	0.0	5.0	450m†	LACGO	0	7	74-181	DL24ag
3	9341DM		TTL	4	16	16	27n	DIFF	2.0*	.80Δ	16m	.40	0.0	5.0	450m†	LACGO	0	7	54-181	DL24ag
4	9341FM		TTL	4	16	16	27n	DIFF	2.0*	.80Δ	16m	.40	0.0	5.0	450m†	LACGO	0	7	54-181	FP66
5	9341PC		TTL	4	16	16	27n	DIFF	2.0*	.80Δ	16m	.40	0.0	5.0	450m†	LACGO	0	7	74-181	DL24ah
6	74181DC		TTL	4	16	16	27n	DIFF	2.0*	.80Δ			0.0	5.0	450m†	LACGO	0	7	74-181	DL24ag
7	74181PC		TTL	4	16	16	27n	DIFF	2.0*	.80Δ			0.0	5.0	450m†	LACGO	0	7	74-181	DL24ah
8	JANM38510/07801BJB		TTL	4	16	32	29n	DIFF	2.0*	.80Δ	20m	.50	0.0	5.5	990m		5	C	74-181	DL24ab
9	JANM38510/07801CJB		TTL	4	16	32	29n	DIFF	2.0*	.80Δ	20m	.50	0.0	5.5	990m		5	C	74-181	DL24ab
10	N74S181F		TTL	4	16	16	30n	DIFF	2.0*	.80Δ	20m	.50	0.0	5.0	1.1	LACGO	0	7	74-181	DL24aa
11	N74S181N		TTL	4	16	16	30n	DIFF	2.0*	.80Δ	20m	.50	0.0	5.0	1.1	LACGO	0	7	74-181	DL24z
12	S54S181F		TTL	4	16	16	30n	DIFF	2.0*	.80Δ	20m	.50	0.0	5.0	1.1	LACGO	5	C	74-181	DL24aa
13	SN54S181J		TTL	4	16	16	30n	DIFF	2.0*	.80Δ	20m	.50	0.0	5.0	1.1	LACGO	5	C	54-181	MO015AA
14	SN54S181W		TTL	4	16	16	30n	DIFF	2.0*	.80Δ	20m	.50	0.0	5.0	975m	LACGO	5	C	54-181	MO019AA
15	SN74S181J		TTL	4	16	16	30n	DIFF	2.0*	.80Δ	20m	.50	0.0	5.0	1.1	LACGO	0	7	74-181	MO015AA
16	SN74S181N		TTL	4	16	16	30n	DIFF	2.0*	.80Δ	20m	.50	0.0	5.0	1.1	LACGO	0	7	74-181	DL24e
17	AM2506DC		TTL	4	16	16	32n	DIFF	2.0*	.80Δ	16m	.40	0.0	5.0	750m%	W/Lat	0	7	U00-16	DL24i
18	AM2506DM		TTL	4	16	16	32n	DIFF	2.0*	.80Δ	16m	.40	0.0	5.0	675m%	W/Lat	5	C	U00-16	DL24t
19	AM2506FM		TTL	4	16	16	32n	DIFF	2.0*	.80Δ	16m	.40	0.0	5.0	675m%	W/Lat	5	C	U00-16	FP105
20	AM2506PC		TTL	4	16	16	32n	DIFF	2.0*	.80Δ	16m	.40	0.0	5.0	750m%	W/Lat	0	7	U00-16	DL24g
21	93L41DC		TTL	4	16	16	35n	DIFF	2.0*	.70Δ			0.0	5.0	120m†	LACGO	0	7	74-181	DL24ag
22	93L41DM		TTL	4	16	16	35n	DIFF	2.0*	.70Δ			0.0	5.0	120m†	LACGO	5	C	74-181	DL24ag
23	93L41FM		TTL	4	16	16	35n	DIFF	2.0*	.70Δ			0.0	5.0	120m†	LACGO	5	C	54-181	FP66
24	93L41PC		TTL	4	16	16	35n	DIFF	2.0*	.70Δ			0.0	5.0	120m†	LACGO	0	7	74-181	DL24ah
25#	HD74LS181		TTL	4	16	16	38n	LOG	2.0*	.80Δ	4.0m	.40	0.0	5.0	400m	Cerdi	0	7	54-181	DL8af
26	AM25LS181DC		TTL	4	16	16	50n	DIFF	2.0*	.70Δ	8.0m	.45	0.0	5.0	185m%	LACGO	0	7	U00-3	DL24r
27	AM25LS181DM		TTL	4	16	16	50n	DIFF	2.0*	.70Δ	8.0m	.45	0.0	5.0	175m%	LACGO	5	C	U00-3	DL24r
28	AM25LS181FM		TTL	4	16	16	50n	DIFF	2.0*	.70Δ	8.0m	.45	0.0	5.0	175m%	LACGO	5	C	54-181	FP105
29	AM25LS181PC		TTL	4	16	16	50n	DIFF	2.0*	.70Δ	8.0m	.45	0.0	5.0	185m%	LACGO	0	7	U00-3	DL24c
30	DM74181J		TTL	4	16	16	50n	DIFF	2.0*	.80Δ	16m	.40	0.0	5.0	700m	LACGO	0	7	74-181	DL24a
31	DM74181N		TTL	4	16	16	50n	DIFF	2.0*	.80Δ	16m	.40	0.0	5.0	700m	LACGO	0	7	74-181	DL24v
32#	M53381P		TTL	4	16	16	50n	DIFF	2.0*	.80Δ	16m	.40	0.0	5.0	750m%	LACGO	0	7	74-181	DL24k
33#	N74LS181F		TTL	4	16	16	50n	DIFF	2.0*	.80Δ	8.0m	.50	0.0	5.0	185m	LACGO	0	7	74-181	DL24aa
34	N74LS181N		TTL	4	16	16	50n	DIFF	2.0*	.80Δ	8.0m	.50	0.0	5.0	185m	LACGO	0	7	74-181	DL24z
35	N74181F		TTL	4	16	16	50n	DIFF	2.0*	.80Δ	16m	.40	0.0	5.0	750m	LACGO	0	7	74-181	DL24aa
36	N74181N		TTL	4	16	16	50n	DIFF	2.0*	.80Δ	16m	.40	0.0	5.0	750m	LACGO	0	7	74-181	DL24z
37	S54LS181F		TTL	4	16	16	50n	DIFF	2.0*	.70Δ	4.0m	.40	0.0	5.0	175m	LACGO	5	C	74-181	DL24aa
38	S54LS181N		TTL	4	16	16	50n	DIFF	2.0*	.80Δ	4.0m	.40	0.0	5.0	175m	LACGO	5	C	74-181	DL24z
39	S54LS181Q		TTL	4	16	16	50n	DIFF	2.0*	.80Δ	4.0m	.40	0.0	5.0	175m	LACGO	5	C	54-181	FP59b
40	S54LS181W		TTL	4	16	16	50n	DIFF	2.0*	.70Δ	4.0m	.40	0.0	5.0	175m	LACGO	5	C	54-181	FP59c
41	S54181F		TTL	4	16	16	50n	DIFF	2.0*	.80Δ	16m	.40	0.0	5.0	675m	LACGO	5	C	74-181	DL24aa
42	S54181N		TTL	4	16	16	50n	DIFF	2.0*	.80Δ	16m	.40	0.0	5.0	675m	LACGO	5	C	74-181	DL24z
43	S54181Q		TTL	4	16	16	50n	DIFF	2.0*	.80Δ	16m	.40	0.0	5.0	675m	LACGO	5	C	54-181	FP59b
44#	SFC4181E		TTL	4	16	16	50n	DIFF	2.4*	.40ΔC	16m	.40	0.0	5.0	750m	LACO	0	7	74-181	DL24af
45#	SFC4181EM		TTL	4	16	16	50n	DIFF	2.4*	.40ΔC	16m	.40	0.0	5.0	675m	LACO	5	C	74-181	DL24af
46#	SFC4181ET		TTL	4	16	16	50n	DIFF	2.4*	.40ΔC	16m	.40	0.0	5.0	750m	LACO	-	8	74-181	DL24af
47#	SFC4181JM		TTL	4	16	16	50n	DIFF	2.4*	.40ΔC	16m	.40	0.0	5.0	675m	LACO	5	C	74-181	DL24af
48#	SFC4181KM		TTL	4	16	16	50n	DIFF	2.4*	.40ΔC	16m	.40	0.0	5.0	675m	LACO	5	C	74-181	DL24af
49	SN54181J		TTL	4	16	16	50n	DIFF	2.0*	.80Δ	16m	.40	0.0	5.0	675m	LACGO	5	C	74-181	MO015AA
50	SN54181W		TTL	4	16	16	50n	DIFF	2.0*	.80Δ	16m	.40	0.0	5.0	675m	LACGO	5	C	54-181	MO019AA
51	SN74181J		TTL	4	16	16	50n	DIFF	2.0*	.80Δ	16m	.40	0.0	5.0	750m	LAAGO	0	7	74-181	MO015AA
52	SN74181N		TTL	4	16	16	50n	DIFF	2.0*	.80Δ	16m	.40	0.0	5.0	750m	LACGO	0	7	74-181	DL24e
53	54LS181FM		TTL	4	16	16	62n	DIFF	2.0*	.70Δ	4.0m	.40	0.0	5.0	175m	LACGO	5	C	54-181	FP66
54	74LS181PC		TTL	4	16	16	62n	DIFF	2.0*	.80Δ	8.0m	.50	0.0	5.0	185m	LACGO	0	7	74-181	DL24ah
55#	HD74LS181P		TTL	4	16	16	62n	DIFF	2.0*	.80Δ	4.0m	.40	0.0	5.0	204m	LACGO	2	7	54-181	DL24ax
56#	MB74LS181		TTL	4	16	16	62n	DIFF	2.0*	.80Δ	8.0m	.50	0.0	5.0	185m	LACGO	2	7	74-181	DL24aq
57#	MB74LS181M		TTL	4	16	16	62n	DIFF	2.0*	.80Δ	8.0m	.50	0.0	5.0	185m	LACGO	2	7	74-181	DL24ar
58	SN54LS181J		TTL	4	16	16	62n	DIFF	2.0*	.70Δ	4.0m	.40	0.0	5.0	175m%	LACGO	5	C	74-181	MO015AA
59	SN54LS181W		TTL	4	16	16	62n	DIFF	2.0*	.70Δ	4.0m	.40	0.0	5.0	175m%	LACGO	5	C	54-181	MO019AA
60	SN74LS181J		TTL	4	16	16	62n	DIFF	2.0*	.80Δ	8.0m	.50	0.0	5.0	185m%	LACGO	0	7	74-181	MO015AA
61	SN74LS181N		TTL	4	16	16	62n	DIFF	2.0*	.80Δ	8.0m	.50	0.0	5.0	185m%	LACGO	0	7	74-181	DL24e
62	AM25L06DC		TTL	4	16	16	80n	DIFF	2.0*	.70Δ	4.9m	.30	0.0	5.0	125m†	W/Lat	0	7	U00-16	DL24i
63	AM25L06DM		TTL	4	16	16	80n	DIFF	2.0*	.70Δ	4.9m	.30	0.0	5.0	125m†	W/Lat	5	C	U00-16	DL24t
64	AM25L06FM		TTL	4	16	16	80n	DIFF	2.0*	.70Δ	4.9m	.30	0.0	5.0	125m†	W/Lat	5	C	U00-16</	

19. LOOK-AHEAD CARRY GENERATORS

IN ORDER OF:(1)TECHNOLOGY(2)BITS
(3)PROPAGATION DELAY(4)TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	BITS	MAX. PROP. DELAY (S)	LOGIC LEVEL		MINIMUM SINK CURRENT (A)	POWER SUPPLY SPAN	MAX. OPER. POWER DISS. (W)	FEATURES	OPER. TEMP RANGE CODE	CKTS PER MOD	DRAWINGS		
						MIN. '1' (V)	MAX. '0' (V)							LOGIC OR BLOCK	OUTLINE	
1#	MB10179			16		-96*	-1.6ΔC		5.2	0.0	300m	3	8	S00-4	DL16ak	
2#	MB10179M			16		-96*	-1.6ΔC		5.2	0.0	300m	3	8	S00-4	DL16ap	
3	883/4582B		CMS	16	160n	8.2	6.7	3.4m	1.5	0.0	300m	5	8	74-182	MO001AC	
4	IDM2902JC		CMS	4	10n	2.0	.80			0.0	5.0	0	7	S00-2	DL16cp	
5	IDM2902JM		CMS	4	10n	2.0	.80			0.0	5.0	0	7	S00-2	DL16cp	
6	IDM2902NC		CMS	4	10n	2.0	.80			0.0	5.0	0	7	S00-2	DL16bu	
7#	HCC40182BD		CMS	4	80n	11*	4.0Δ	4.2m	1.5	0.0	15	200m	5	8	S00-9	DL16dh
8#	HCC40182BF		CMS	4	80n	11*	4.0Δ	4.2m	1.5	0.0	15	200m	5	8	S00-9	DL16dh
9#	HCC40182BK		CMS	4	80n	11*	4.0Δ	4.2m	1.5	0.0	15	200m	5	8	S00-9	DL16dh
10#	HCF40182BE		CMS	4	80n	11*	4.0Δ	4.0m	1.5	0.0	15	200m	4	8	S00-9	DL16dg
11#	HCF40182BF		CMS	4	80n	11*	4.0Δ	4.0m	1.5	0.0	15	200m	4	8	S00-9	DL16dg
12#	HD14582B		CMS	4	690n	3.5	1.5			0.0	18	300m	4	8	S00-3	DL16p
13	4582BDC		CMS	16	55n	11*	4.0Δ	3.0m	1.5	0.0	15	9.0m%	4	8	S00-3	DL16cj
14	4582BDM		CMS	16	55n	11*	4.0Δ	3.4m	1.5	0.0	15	9.0m%	5	8	S00-3	DL16cj
15	4582BFC		CMS	16	55n	11*	4.0Δ	3.0m	1.5	0.0	15	9.0m%	4	8	54-182	FP103
16	4582BFM		CMS	16	55n	11*	4.0Δ	3.4m	1.5	0.0	15	9.0m%	5	8	54-182	FP103
17	4582BPC		CMS	16	55n	11*	4.0Δ	3.0m	1.5	0.0	15	9.0m%	4	8	74-182	FP103
18	SCL4582B		CMS	16	170n	9.95*	.05ΔC	1.3m	.50	0.0	10	100u	5	8	74-182N	DL16ar
19	CD40182BD		CMS	16	180n	11*	4.0Δ	3.4m	1.5	0.0	15	500m	5	8	74-182	MO001AE
20	CD40182BE		CMS	16	180n	11*	4.0Δ	3.4m	1.5	0.0	15	500m	4	8	74-182	MO001AE
21	CD40182BF		CMS	16	180n	11*	4.0Δ	3.4m	1.5	0.0	15	500m	5	8	74-182	MO001AC
22	MC14582BAL		CMS	16	220n	11.0*	4.0Δ	3.0m	1.5	0.0	15	300u	5	8	74-182	DL16aj
23	MC14582BCL		CMS	16	220n	11.0*	4.0Δ	3.0m	1.5	0.0	15	1.2m	4	8	74-182	DL16aj
24	MC14582BCP		CMS	16	220n	11.0*	4.0Δ	3.0m	1.5	0.0	15	1.2m	4	8	74-182	DL16bo
25	MC10H179L(A)		ECL	4	2.5n	-.81	-.19			5.2	0.0	300m	0	7	S00-7	DL16ao
26	MC10H179P(A)		ECL	4	2.5n	-.81	-.19			5.2	0.0	300m	0	7	S00-7	DL16dp
27#	HD10179		ECL	4	5.5n	-.08Δ	-.19*			8	0	25m	3	8	S00-11	DL16p
28#	GXB10179P		ECL	16	16.1n	±.70	±1.9			5.2	0.0	0	3	8	S00-4	DL16dy
29	F100179DC		ECL	48	3.3n	-1.1*	-1.4Δ	20m	-1.0	4.5	0.0	1.2 %	0	7	S00-10	DL24an
30	F100179FC		ECL	48	3.3n	-1.1*	-1.4Δ	20m	-1.0	4.5	0.0	1.2 %	0	7	S00-10	FP126
31	SN10179AJ		ECT	16		-.98*	-1.6Δ	24m	-.81	5.2	0.0	234m	0	8	S00-8	DL16v
32	SN10179AN		ECT	16		-.98*	-1.6Δ	24m	-.81	5.2	0.0	234m	0	8	S00-8	DL16i
33#	GXB10179		ECT	16	4.0n	-.88	-1.7C	20m	-.96	5.2	0.0	20m	0	7	S00-6	DL16r
34	F10179DC		ECT	16	5.5n	-.96*	-1.6ΔC	20m	-.96	5.2	0.0	374m%	0	7	S00-4	DL16cj
35	F10579DM		ECT	16	5.5n	-.93*	-1.6ΔC	10m	-.93	5.2	0.0	374m%	5	8	S00-4	DL16cj
36	F10579FM		ECT	16	5.5n	-.93*	-1.6ΔC	10m	-.93	5.2	0.0	374m%	5	8	S00-4	FP103
37	MC10179L		ECT	16	5.5n	-.96*	-1.6ΔC	20m	-.96	5.2	0.0	300m	3	8	S00-4	DL16am
38	MC10179P		ECT	16	5.5n	-.96*	-1.6ΔC	20m	-.96	5.2	0.0	300m	4	8	S00-4	DL16bo
39	MC10579F		ECT	16	5.5n	-.93*	-1.6ΔC	20m	-.93	5.2	0.0	300m	4	8	S00-4	FP85
40	MC10579L		ECT	16	5.5n	-.93*	-1.6ΔC	20m	-.93	5.2	0.0	300m	4	8	S00-4	DL16am
41#	HD100179F		TTL	4	2.5n	-1.1*	-1.5Δ			7.0	0	40m	0	8	S00-10	FP2
42#	HD100179		TTL	4	2.6n	-1.1*	-1.5Δ			7.0	0	40m	0	8	S00-10	DL24Z
43	DM54S182J#mil		TTL	4	7.0n	2.0	0.8			0	7.0	260m	5	8	S00-9	DL16au
44	DM74S182N		TTL	4	7.0n	2.0	0.8			0	7.0	260m	0	7	S00-9	DL16a
45	54F182DM		TTL	4	4.6n	2.0*	.80Δ			0.0	5.0	5.0	5	8	74-182	DL16x
46	54F182FM		TTL	4	4.6n	2.0*	.80Δ			0.0	5.0	5.0	5	8	54-182	FP101
47	74F182DC		TTL	4	4.6n	2.0*	.80Δ			0.0	5.0	5.0	0	7	74-182	DL16x
48	74F182PC		TTL	4	4.6n	2.0*	.80Δ			0.0	5.0	5.0	0	7	74-182	DL16x
49	MC74F182J(A)		TTL	4	9.5n	2.0	0.8	20m	0.5	0.0	5.0	5.0	0	7	74-182	DL16ao
50	MC74F182N(A)		TTL	4	9.5n	2.0	0.8	20m	0.5	0.0	5.0	5.0	0	7	74-182	DL16pd
51	MC54F182J(A)		TTL	4	10n	2.0	0.8	20m	0.5	0.0	5.0	5.0	0	7	74-182	DL16ao
52	MC54F182N(A)		TTL	4	10n	2.0	0.8	20m	0.5	0.0	5.0	5.0	0	7	74-182	DL16pd
53	SN54S182F16		TTL	4	11	2.0*	0.8Δ	20m	3.4	0.0	5.0	5.0	5	8	S00-2	FP2
54	SN54S182J16		TTL	4	11	2.0*	0.8Δ	20m	3.4	0.0	5.0	5.0	5	8	S00-2	DL16dg
55	SN74S182J16		TTL	4	11	2.0*	0.8Δ	20m	3.4	0.0	5.0	5.0	0	7	S00-2	DL16dg
56#	MB459		TTL	16	2.0*	.80Δ				0.0	5.0	180m	0	7	74-182	DL16ak
57#	MB459M		TTL	16	2.0*	.80Δ				0.0	5.0	180m	0	7	74-182	DL16ap
58	54S182DM		TTL	16	10n	2.0*	.80Δ	20m	.50	0.0	5.0	400m	5	8	74-182	DL16cj
59	54S182FM		TTL	16	10n	2.0*	.80Δ	20m	.50	0.0	5.0	400m	5	8	54-182	FP103
60	74S182DC		TTL	16	10n	2.0*	.80Δ	20m	.50	0.0	5.0	400m	0	7	74-182	DL16cj
61	74S182PC		TTL	16	10n	2.0*	.80Δ	20m	.50	0.0	5.0	400m	0	7	74-182	DL16cj
62	N74S182F		TTL	16	10n	2.0*	.80Δ	20m	.50	0.0	5.0	545m	0	7	S00-2	DL16aw
63	N74S182N		TTL	16	10n	2.0*	.80Δ	20m	.50	0.0	5.0	545m	0	7	74-182	DL16bp
64	S54S182F		TTL	16	10n	2.0*	.80Δ	20m	.50	0.0	5.0	545m	5	8	54-182	DL16ak
65	S54S182W		TTL	16	10n	2.0*	.80Δ	20m	.50	0.0	5.0	545m	5	8	S00-2	FP47g
66	SN54S182J		TTL	16	10n	2.0*	.80Δ	20m	.50	0.0	5.0	495m	5	8	74-182	DL16v
67	SN54S182W		TTL	16	10n	2.0*	.80Δ	20m	.50	0.0	5.0	495m	5	8	54-182	MO004AC
68	SN74S182J		TTL	16	10n	2.0*	.80Δ	20m	.50	0.0	5.0	545m	5	7	74-182	DL16v
69	SN74S182N		TTL	16	10n	2.0*	.80Δ	20m	.50	0.0	5.0	545m	0	7	74-182	DL16i
70	93S42DC		TTL	16	11n	2.0*	.80Δ	20m	.50	0.0	5.0	400m	0	7	74-182	DL16cj
71	93S42DM		TTL	16	11n	2.0*	.80Δ	20m	.50	0.0	5.0	400m	5	8	74-182	DL16cj
72	93S42FM		TTL	16	11n	2.0*	.80Δ	20m	.50	0.0	5.0	400m	5	8	54-182	FP103
73	93S42PC		TTL	16	11n	2.0*	.80Δ	20m	.50	0.0	5.0	400m	0	7	74-182	DL16cj
74	9342DC		TTL	16	12n	2.0*	.80Δ			0.0	5.0	180m	0	7	74-182	DL16cj
75	9342DM		TTL	16	12n	2.0*	.80Δ			0.0	5.0	180m	5	8	74-182	DL16cj
76	9342FM		TTL	16	12n	2.0*	.80Δ			0.0	5.0	180m	5	8	54-182	FP103
77	9342PC		TTL	16	12n	2.0*	.80Δ			0.0	5.0	180m	0	7	74-182	DL16cj
78	SN54LS182J		TTL	16	16n	2.0*	.70Δ	4.0m	.40	0.0	5.0	80m	5	8	74-182	DL16am
79	SN74LS182J		TTL	16	16n	2.0*	.80Δ	8.0m								

25. PARITY GENERATORS/CHECKERS

IN ORDER OF: (1) TECHNOLOGY (2) BITS
(3) PROPAGATION DELAY (4) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	BITS	MAX. PROP. DELAY (S)	LOGIC LEVEL		MINIMUM SINK CURRENT (A)	@ V _o	POWER SUPPLY SPAN (V)		MAX. OPER. POWER DISS. (W)	FEATURES	OPER. TEMP RANGE CODE	CKTS PER MOD	DRAWINGS		
						MIN. '1' (V)	MAX. '0' (V)			NEG	POS					LOGIC OR BLOCK	OUTLINE	
1#	MB10160			12		-0.96*	-1.6ΔC			5.2	0.0	320m	Par Tree	3	8	1	P00-7	DL16ak
2#	MB10160M			12		-0.96*	-1.6ΔC			5.2	0.0	320m	Par Tree	3	8	1	P00-7	DL16ap
3	MC54HC280J(A)		CMS	9	51n	3.2	1.1	3.4m	0.4	0.5	7.0	500m		5	C	1	P00-29	DL14Z
4	MC74HC280J(A)		CMS	9	51n	3.2	1.1	4.0m	0.4	0.5	7.0	500m		4	8	1	P00-29	DL14Z
5	MC74HC280N(A)		CMS	9	51n	3.2	1.1	4.0m	0.4	0.5	7.0	500m		4	8	1	P00-29	DL14Z
6	CD40119E		CMS	9	125n	14.9*	0.5ΔC	6.0m	1.5	0.0	15	200m	Inh Inp	4	8	1	40-101	MO001AB
7	CD40101BE		CMS	9	200n	11*	4.0Δ	3.4m	1.5	0.0	15	500m	Inh Inp	5	C	1	40-101B	MO001AD
8	CD40101BE		CMS	9	200n	11*	4.0Δ	3.4m	1.5	0.0	15	500m	Inh Inp	4	8	1	40-101B	MO001AB
9	CD40101BF		CMS	9	200n	11*	4.0Δ	3.4m	1.5	0.0	15	500m	Inh Inp	5	C	1	40-101B	MO001AB
10#	HCC40101BD		CMS	9	200n	11*	4.0Δ	3.4m	1.5	0.0	15	500m	Inh Inp	5	C	1	40-101B	DL14cd
11#	HCC40101BF		CMS	9	200n	11*	4.0Δ	3.4m	1.5	0.0	15	500m	Inh Inp	5	C	1	40-101B	DL14bd
12#	HCC40101BK		CMS	9	200n	11*	4.0Δ	3.4m	1.5	0.0	15	500m	Inh Inp	5	C	1	40-101B	FP130
13#	HCF40101BE		CMS	9	200n	11*	4.0Δ	3.4m	1.5	0.0	15	500m	Inh Inp	4	8	1	40-101B	DL14W
14#	HCF40101BF		CMS	9	200n	11*	4.0Δ	3.4m	1.5	0.0	15	500m	Inh Inp	4	8	1	40-101B	DL14bd
15#	HEF4531B		CMS	12				1.1m	0.50	0.0	10	400m	Par Tree	4	8	1	45-31B	DL16cb
16#	HEF4531B		CMS	12	55n	11*	4.0Δ	3.0m	1.5	0.0	15	400m	Par Tree	4	8	1	45-31B	DL1Z
17#	HEF4531BDF		CMS	12	55n	11.0*	4.0Δ	3.0m	1.5	0.0	15	400m	Par Tree	4	8	1	45-31B	DL16at
18#	HEF4531BPN		CMS	12	55n	11.0*	4.0Δ	3.0m	1.5	0.0	15	400m	Par Tree	4	8	1	45-31B	DL16cc
19#	HEF4531BTD		CMS	12	55n	11.0*	4.0Δ	3.0m	1.5	0.0	15	200m	Par Tree	4	8	1	45-31B	FP148
20	4531BDC		CMS	12	180n	11*	4.0Δ	3.0m	1.5	0.0	15	9.0m	buff outp	5	C	1	45-31B	DL16cj
21	4531BDF		CMS	12	180n	11*	4.0Δ	3.0m	1.5	0.0	15	9.0m	buff outp	5	C	1	45-31B	DL16cj
22	4531BDF		CMS	12	180n	11*	4.0Δ	3.0m	1.5	0.0	15	9.0m	buff outp	4	8	1	45-31B	FP103
23	4531BFM		CMS	12	180n	11*	4.0Δ	3.4m	1.5	0.0	15	9.0m	buff outp	5	C	1	45-31B	FP103
24	4531BPC		CMS	12	180n	11*	4.0Δ	3.0m	1.5	0.0	15	9.0m	buff outp	4	8	1	45-31B	FP103
25	883/4531B		CMS	12	240n	8.2	6.7	3.4m	1.5	0.0	15	300m	buff outp	5	C	1	45-31B	MO001AG
26	MC14531BAL		CMS	12	240n	11.0*	4.0Δ	3.0m	1.5	0.0	15	300m	buff outp	5	C	1	45-31B	DL16aj
27	SCL4531B		CMS	12	350n	9.95*	0.5ΔC	1.3m	0.50	0.0	10	100%	buff outp	5	C	1	45-31B	DL16ar
28	MC14531BCL		CMS	12	360n	11.0*	4.0Δ	3.0m	1.5	0.0	15	1.2m	buff outp	4	8	1	45-31B	DL16aj
29	MC14531BCP		CMS	12	360n	11.0*	4.0Δ	3.0m	1.5	0.0	15	1.2m	buff outp	4	8	1	45-31B	DL16bo
30#	TC4531BP		CMS	12	400n	14.9*	0.5ΔC	3.0m	1.5	0.0	15	300m	buff outp	4	8	1	P00-3	DL16cr
31#	HD14531B		CMS	12	1.3u	3.5	1.3			0.0	18	300m	Par Tree	4	8	3	P00-3	DL16p
32#	100160D		ECL	9	2.9n	-8.8	-1.8			4.5	0.0		8 bit cmp	0	8	2	P00-25	DL24bb
33	F_00160DC		ECL	9	3.9n	-1.1*	-1.4Δ	20m	-1.0	4.5	0.0	517m%	re Output	0	7	2	P00-25	DL24an
34	F100160FC		ECL	9	3.9n	-1.1*	-1.4Δ	20m	-1.0	4.5	0.0	517m%	Comp Outp	0	7	2	P00-25	FP126
35#	HXA100160D		ECL	9	3.9n	-1.8	-0.8			4.5	0	405m	ity outp	0	8	1	P00-25	DLZ
36#	HXA100160F		ECL	9	3.9n	-1.8	-0.8			4.5	0	405m	ity outp	0	8	1	P00-25	FPZ
37#	GXB10170		ECL	9	6.0n	-0.88	-1.7C	20m	-0.96	5.2	0.0		2 odd par	0	7	1	F00-22	DL16r
38#	GXB10160		ECL	12	4.5n	-0.88	-1.7C	20m	-0.96	5.2	0.0	364	Par Tree	0	7	1	P00-7	DL16r
39	MC10H160L(A)		ECL	12	4.5n	-0.81	-1.9			5.2	0.0	320m	Par Tree	0	7	2	P00-7	DL16ao
40	MC10H160P(A)		ECL	12	4.5n	-0.81	-1.9			5.2	0.0	320m	Par Tree	0	7	2	P00-7	DL16dp
41	F10160DC		ECL	12	7.5n	-0.96*	-1.6ΔC	20m	-0.96	5.2	0.0	307m%	Par Tree	0	7	1	P00-23	DL16cj
42	F10560DM		ECL	12	7.5n	-0.93*	-1.6ΔC	10m	-0.93	5.2	0.0	307m%	Par Tree	5	C	1	P00-23	DL16cj
43	F10560FM		ECL	12	7.5n	-0.93*	-1.6ΔC	10m	-0.93	5.2	0.0	307m%	Par Tree	5	C	1	P00-23	FP103
44#	GXB10160D		ECL	12	8.0n	-0.70	-1.9			5.2	0.0		ity Tree	5	C	1	P00-7	DL16dz
45#	GXB10160P		ECL	12	8.0n	-0.70	-1.9			5.2	0.0		ity Tree	3	8	1	P00-7	DL16dy
46#	HD100160		ECL	16	2.7n	-1.2*	-1.5Δ			5.7	0.0	40m	Odd/Even	0	8	2	P00-25	DL24aw
47#	HD100160F		ECL	16	2.7n	-1.2*	-1.5Δ			5.7	0.0	40m	Odd/Even	0	8	2	P00-25	FP14e
48	10170F		ECL	9	6.0n	-0.96*	-1.6ΔC	20m	-0.96	5.2	0.0	340m	n Emitter	3	8	1	P00-22	DL16ak
49	MC10170L		ECL	9	8.8n	-0.96*	-1.6ΔC	20m	-0.96	5.2	0.0	369m	b	3	8	1	P00-11	DL16am
50	MC10170P		ECL	9	8.8n	-0.96*	-1.6ΔC	20m	-0.96	5.2	0.0	369m	b	3	8	1	P00-11	DL16bo
51	MC10570F		ECL	9	8.8n	-0.93*	-1.6ΔC	10m	-0.96	5.2	0.0	369m	b	5	C	1	P00-11	FP85
52	MC10570L		ECL	9	8.8n	-0.93*	-1.6ΔC	10m	-0.96	5.2	0.0	369m	b	5	C	1	P00-11	DL16am
53	F10170DC		ECL	11	7.5n	-0.96*	-1.6ΔC	20m	-0.96	5.2	0.0	354m%	11 Input	0	7	1	P00-24	DL16cj
54	F10570DM		ECL	11	7.5n	-0.93*	-1.6ΔC	10m	-0.93	5.2	0.0	354m%	11 Input	5	C	1	P00-24	DL16cj
55	F10570FM		ECL	11	7.5n	-0.93*	-1.6ΔC	10m	-0.93	5.2	0.0	354m%	11 Input	5	C	1	P00-24	FP103
56	10160F		ECL	12	4.0n	-0.96*	-1.6ΔC	20m	-0.96	5.2	0.0	390m	Open Emit	3	8	1	P00-7	DL16ak
57	MC10160L		ECL	12	7.5n	-0.96*	-1.6ΔC	20m	-0.96	5.2	0.0	320n	W1MC10107	3	8	1	P00-7	DL16aj
58	MC10160P		ECL	12	7.5n	-0.96*	-1.6ΔC	20m	-0.96	5.2	0.0	320n	W1MC10107	3	8	1	P00-7	DL16bo
59	MC10560L		ECL	12	7.5n	-0.93*	-1.6ΔC	10m	-0.93	5.2	0.0	320n	W1MC10507	5	C	1	P00-7	FP85
60	MC10560F		ECL	12	7.5n	-0.93*	-1.6ΔC	10m	-0.93	5.2	0.0	320n	w/MC10507	5	C	1	P00-7	DL16aj
61	SN10160J		ECL	12	7.5n	-0.98*	-1.6Δ	24m	-0.81	5.2	0.0	317m	Odd/Even	0	8	1	P00-16	DL16v
62	SN10160N		ECL	12	7.5n	-0.98*	-1.6Δ	24m	-0.81	5.2	0.0	317m	Odd/Even	0	8	1	P00-16	DL16i
63	MC4010L		TTL	4	35n	2.4*	40ΔC	16m	0.40	0.0	5.0	125m	Par Tree	0	7	2	P00-8	TO116
64	MC4010P		TTL	4	35n	2.4*	40ΔC	16m	0.40	0.0	5.0	125m	Par Tree	0	7	2	P00-8	TO116
65	MC4310F		TTL	4	35n	2.4*	40ΔC	16m	0.40	0.0	5.0	125m	Par Tree	5	C	2	P00-8	TO86
66	MC4310L		TTL	4	35n	2.4*	40ΔC	16m	0.40	0.0	5.0	125m	Par Tree	5	C	2	P00-8	TO116
67#	MB447		TTL	8		2.0*	80Δ			0.0	5.0	190m	Odd/Even	0	7	1	74-180N	DL14aq
68#	MB447M		TTL	8		2.0*	80Δ			0.0	5.0	190m	Odd/Even	0	7	1	74-180N	DL14ac
69#	MC4008L		TTL	8	46n	2.4*	40ΔC	16m	0.40	0.0	5.0	150m	ity Tree	0	7	1	74-408P	TO116
70	MC4008P		TTL	8	46n	2.4*	40ΔC	16m	0.40	0.0	5.0	150m	ity Tree	0	7	1	74-408P	TO116
71	MC4308F		TTL	8	46n	2.4*	40ΔC	16m	0.40	0.0	5.0	150m	ity Tree	5	C	1	54-408W	TO86
72	MC4308L		TTL	8	46n	2.4*	40ΔC	16m	0.40	0.0	5.0	150m	ity Tree	5	C	1	74-408P	TO116
73	54180DM		TTL	8	68n	2.0*	80Δ			0.0	5.0	280m	E10 Outp	5	C	6	74-180N	DL14bf
74	54180FM		TTL	8	68n	2.0*	80Δ			0.0	5.0	280m	E10 Outp	5	C	6	74-180N	FP52
75	74180DC		TTL	8	68n	2.0*	80Δ			0.0	5.0	280m	E10 Outp	0	7	6	74-180N	DL14bf
76	74180PC		TTL	8	68n	2.0*	80Δ			0.0	5.0	280m	E10 Outp	0	7	6	74-180N	DL14ce
77#	SFC4180E		TTL	8	68n	2.4*	40ΔC	16m	0.40	0.0	5.0	280m	mpt w/DTL	0	7	1	74-180N	TO116
78#	SFC4180EM		TTL	8	68n	2.4*	40ΔC	16m	0.40	0.0	5.0	245m	mpt w/DTL	5	C	1	74-180N	TO116
79#	SFC4180ET		TTL	8	68n	2.4*	40ΔC	16m	0.40	0.0	5.0	280m	mpt w/DTL	2	8	1	74-180N	TO116
80#	SFC4180JM		TTL	8	68n	2												

25. PARITY GENERATORS/CHECKERS

IN ORDER OF: (1) TECHNOLOGY (2) BITS
(3) PROPAGATION DELAY (4) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	BITS	MAX. PROP. DELAY (S)	LOGIC LEVEL		MINIMUM SINK CURRENT		POWER SUPPLY SPAN		MAX. OPER. POWER DISS. (W)	FEATURES	OPER. TEMP RANGE CODE		CKTS PER MOD	DRAWINGS	
						MIN. '1' (V)	MAX. '0' (V)	@ V _o	NEG (V)	POS (V)	-			+	LOGIC OR BLOCK		OUTLINE	
1	S4S280FM		TTL	9	21n	2.0*	.80Δ			0.0	5.0	525m	E1O Outp	5 C	6	54S280W	FP52	
2	N74S280F		TTL	9	21n	2.0*	.80Δ	20m	.50	0.0	5.0	525m	Odd/Even	0 7	1	74S280N	DL14bh	
3	N74S280N		TTL	9	21n	2.0*	.80Δ	20m	.50	0.0	5.0	525m	Odd/Even	0 7	1	74S280N	DL14br	
4	S54S280F		TTL	9	21n	2.0*	.80Δ	20m	.50	0.0	5.0	525m	Odd/Even	5 C	1	74S280N	DL14bh	
5	S54S280W		TTL	9	21n	2.0*	.80Δ	20m	.50	0.0	5.0	525m	Odd/Even	5 C	1	54S280W	FP39e	
6	SN54S280J		TTL	9	21n	2.0*	.80Δ	20m	.50	0.0	5.0	335m†	Odd/Even	5 C	1	74S280N	DL14af	
7	SN54S280W		TTL	9	21n	2.0*	.80Δ	20m	.50	0.0	5.0	335m†	Odd/Even	5 C	1	54S280W	MO004AA	
8	SN74S280J		TTL	9	21n	2.0*	.80Δ	20m	.50	0.0	5.0	335m†	Odd/Even	0 7	1	74S280N	DL14af	
9	SN74S280N		TTL	9	21n	2.0*	.80Δ	20m	.50	0.0	5.0	335m†	Odd/Even	0 7	1	74S280N	DL14r	
10	54F280DM		TTL	9	23n	2.0*	.80Δ			0.0	5.0		Odd/Even	5 C	1	74S280N	TO116	
11	54F280FM		TTL	9	23n	2.0*	.80Δ			0.0	5.0		Odd/Even	5 C	1	54S280W	TO86	
12	74F280DC		TTL	9	23n	2.0*	.80Δ			0.0	5.0		Odd/Even	0 7	1	74S280N	TO116	
13	74F280PC		TTL	9	23n	2.0*	.80Δ			0.0	5.0		Odd/Even	0 7	1	74S280N	TO116	
14	N82S62A		TTL	9	23n	2.7*	.50ΔC	20m	.50	0.0	5.0	355m	Inh Inp	0 7	1	40-101B	DL14br	
15	S82S62A		TTL	9	23n	2.7*	.50ΔC	20m	.50	0.0	5.0	355m	Inh Inp	5 C	1	40-101B	DL14br	
16	S82S62F		TTL	9	23n	2.7*	.50ΔC	20m	.50	0.0	5.0	355m	Inh Inp	5 C	1	40-101B	DL14aq	
17	DM54S280J #mil		TTL	9	24n	2.0	0.8			0	70		Odd/Even	5 C	1	P00-15	DL14g	
18	DM54S280W #mil		TTL	9	24n	2.0	0.8			0	70		Odd/Even	5 C	1	P00-15	FP97c	
19	DM74S280N		TTL	9	24n	2.0	0.8			0	70		Odd/Even	0 7	1	P00-15	DL14r	
20	93S62DC		TTL	9	26n	2.0*	.80Δ	20m	.50	0.0	5.0	325m	Enabl Inp	0 7	1	P00-14	TO116	
21	93S62DM		TTL	9	26n	2.0*	.80Δ	20m	.50	0.0	5.0	325m	Enabl Inp	5 C	1	P00-14	TO116	
22	93S62FM		TTL	9	26n	2.0*	.80Δ	20m	.50	0.0	5.0	325m	Enabl Inp	5 C	1	P00-14	TO86	
23	93S62PC		TTL	9	26n	2.0*	.80Δ	20m	.50	0.0	5.0	325m	ble Input	0 7	1	P00-14	TO116	
24	N82S62F		TTL	9	34n	2.7*	.80ΔC	20m	.50	0.0	5.0	335m%	Odd/Even	0 7	1	40-101B	DL14bh	
25	N82S62N		TTL	9	34n	2.7*	.80ΔC	20m	.50	0.0	5.0	335m%	Odd/Even	0 7	1	40-101B	DL14br	
26#	HD74LS280		TTL	9	48n	2.0*	.80Δ	8.0m	.50	0.0	5.0	400m	Odd/Even	2 7	1		DL14cz	
27#	HD74LS280P		TTL	9	48n	2.0*	.80Δ	8.0m	.50	0.0	5.0	400m	Odd/Even	2 7	1		DL14cz	
28#	M74LS280P		TTL	9	50n	2.0*	.80Δ	8.0m†	.50	0.0	5.0	80m†	Odd/Even	2 7	1	74S280N	DL14cf	
29#	MB74LS280		TTL	9	50n	2.0*	.80Δ	8.0m	.50	0.0	5.0	135m	Odd/Even	2 7	1	74S280N	DL14ai	
30#	MB74LS280M		TTL	9	50n	2.0*	.80Δ	8.0m	.50	0.0	5.0	135m	Odd/Even	2 7	1	74S280N	DL14bn	
31	SN54LS280J		TTL	9	50n	2.0*	.70Δ	4.0m	.40	0.0	5.0	135m	Odd/Even	5 C	1	74S280N	DL14af	
32	SN54LS280W		TTL	9	50n	2.0*	.70Δ	4.0m	.40	0.0	5.0	135m	Odd/Even	5 C	1	54S280W	MO004AA	
33	SN74LS280J		TTL	9	50n	2.0*	.80Δ	8.0m	.50	0.0	5.0	135m	Odd/Even	0 7	1	74S280N	DL14af	
34	SN74LS280N		TTL	9	50n	2.0*	.80Δ	8.0m	.50	0.0	5.0	135m	Odd/Even	0 7	1	74S280N	DL14r	
35	N8262F		TTL	9	55n	2.6*	.40ΔC	16m	.50	0.0	5.0	350m	Inh Inp	0 7	1	40-101B	DL14bh	
36	N8262N		TTL	9	55n	2.6*	.40ΔC	16m	.40	0.0	5.0	350m	Inh Inp	0 7	1	40-101B	DL14br	
37	S8262F		TTL	9	55n	2.6*	.40ΔC	20m	.50	0.0	5.0	370m	Inh Inp	5 C	1	40-101B	DL14bh	
38	S8262W		TTL	9	55n	2.6*	.40ΔC	20m	.50	0.0	5.0	370m	Inh Inp	5 C	1	P00-21a	FP39e	
39	DM7220J		TTL	9	58n	2.0*	.80Δ	16m	.40	0.0	5.0	175m	Odd/Even	5 C	1	P00-5	DL14ax	
40	DM7220N		TTL	9	58n	2.0*	.80Δ	16m	.40	0.0	5.0	175m	Odd/Even	5 C	1	P00-5	DL14bt	
41	DM7220W		TTL	9	58n	2.0*	.80Δ	16m	.40	0.0	5.0	175m	Odd/Even	5 C	1	P00-5	FP97a	
42	DM8220J		TTL	9	58n	2.0*	.80Δ	16m	.40	0.0	5.0	175m	Odd/Even	0 7	1	P00-5	DL14ax	
43	DM8220N		TTL	9	58n	2.0*	.80Δ	16m	.40	0.0	5.0	175m	Odd/Even	0 7	1	P00-5	DL14bt	
44	DM74180J		TTL	9	68n	2.0*	.80Δ	16m	.40	0.0	5.0	180m†	Odd/Even	0 7	1	74-180N	DL14ax	
45	DM74180N		TTL	9	68n	2.0*	.80Δ	16m	.40	0.0	5.0	180m†	Odd/Even	0 7	1	74-180N	DL14bt	
46	DM74180W		TTL	9	68n	2.0*	.80Δ	16m	.40	0.0	5.0	180m†	Odd/Even	0 7	1	54-180W	FP97a	
47#	M53380P		TTL	9	68n	2.0*	.80Δ	16m	.40	0.0	5.0	280m%	Odd/Even	0 7	1	74-180N	DL14bm	
48#	N74180F		TTL	9	68n	2.0*	.80Δ	16m	.40	0.0	5.0	280m	Odd/Even	0 7	1	74-180N	DL14bh	
49	N74180N		TTL	9	68n	2.0*	.80Δ	16m	.40	0.0	5.0	280m	Odd/Even	0 7	1	74-180N	DL14br	
50	S54180F		TTL	9	68n	2.0*	.80Δ	16m	.40	0.0	5.0	245m	Odd/Even	5 C	1	74-180N	DL14bh	
51	S54180W		TTL	9	68n	2.0*	.80Δ	16m	.40	0.0	5.0	245m	Odd/Even	5 C	1	54-180W	FP39e	
52	SN54180J		TTL	9	68n	2.0*	.80Δ	16m	.40	0.0	5.0	245m	Odd/Even	5 C	1	74-180N	DL14af	
53	SN54180W		TTL	9	68n	2.0*	.80Δ	16m	.40	0.0	5.0	245m	Odd/Even	5 C	1	54-180W	MO004AA	
54	SN74180J		TTL	9	68n	2.0*	.80Δ	16m	.40	0.0	5.0	280m	Odd/Even	0 7	1	74-180N	DL14af	
55	SN74180N		TTL	9	68n	2.0*	.80Δ	16m	.40	0.0	5.0	280m	Odd/Even	0 7	1	74-180N	DL14r	
56#	HD10160		TTL	12	8.0n	-1.8*	-1.8Δ			8.0	0	25m†	dd Parity	3 8	9	P00-23	DL16Z	
57	93S48DC		TTL	12	28n	2.0*	.80Δ	20m	.50	0.0	5.0	400m%	Odd/Even	0 7	1	P00-19	DL16cd	
58	93S48DM		TTL	12	28n	2.0*	.80Δ	20m	.50	0.0	5.0	400m%	Odd/Even	5 C	1	P00-19	DL16cc	
59	93S48FM		TTL	12	28n	2.0*	.80Δ	20m	.50	0.0	5.0	400m%	Odd/Even	5 C	1	P00-19	FP97b	
60	93S48PC		TTL	12	28n	2.0*	.80Δ	20m	.50	0.0	5.0	400m%	Odd/Even	0 7	1	P00-19	DL16ce	
61	9348DC		TTL	12	40n	2.0*	.80Δ			0.0	5.0	235m†	Odd/Even	0 7	1	P00-13	TO116	
62	9348DM		TTL	12	40n	2.0*	.80Δ			0.0	5.0	235m†	Odd/Even	5 C	1	P00-13	TO116	
63	9348FM		TTL	12	40n	2.0*	.80Δ			0.0	5.0	235m†	Odd/Even	5 C	1	P00-13	TO86	
64	9348PC		TTL	12	40n	2.0*	.80Δ			0.0	5.0	235m†	Odd/Even	0 7	1	P00-13	TO116	

26. LATCHES

IN ORDER OF:(1)TECHNOLOGY(2)BITS(3)PROPAGATION DELAY(4)TYPE CODE(5)TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	BITS	MAX. PROP. DELAY (S)	TYPE CODE	LOGIC LEVEL		MINIMUM SINK CURRENT		POWER SUPPLY		MAX. OPER. POWER DISS. (W)	FEATURES	OPER. TEMP. RANGE CODE	CKTS PER MOD	LOGIC OR BLOCK	DRAWINGS	
							MIN. '1' (V)	MAX. '0' (V)	(A)	@ V _o (V)	NEG. (V)	POS. (V)							
1	SN54AS873JT #mil																		
2#	MB430			1			2.4*	.40Δ			0.0	5.0	20m†		0	7	1	74LS77N	DL14aq
3#	MB430M			1			2.4*	.40Δ			0.0	5.0	20m†		0	7	1	74LS77N	DL14ac
4#	MB10130			2		D	-.96*	-1.6Δ			5.2	0.0	155m†		0	3	2	L00-14	DL16ak
5#	MB10130M			2		D	-.96*	-1.6Δ			5.2	0.0	155m†		0	3	2	L00-14	DL16ap
6#	MB10133			2		D	-.96*	-1.6Δ			5.2	0.0	155m†	Outp en	3	8	4	L00-12	DL16ak
7#	MB10133M			2		D	-.96*	-1.6Δ			5.2	0.0	155m†	Outp en	3	8	4	L00-12	DL16ap
8#	MSM4042RS		CMS		400n	D	3.6*	1.0Δ			0.3	16	200m		4	8	1	L00-3	DL16Z
9#	MSM4043RS		CMS		400n	R/S	3.6*	1.0Δ			0.3	16	200m		4	8	1	L00-1	DL16Z
10#	MSM4044RS		CMS		400n	R/S	3.6*	1.0Δ			0.3	16	200m	NOR NAND	4	8	1	L00-21	DL16Z
11	MC54HC75J(A)		CMS	2	23n	D	3.2	2.4	10m	0.4	0.0	6.0	500m		4	8	2	74-75	DL16ao
12	MC74HC75J(A)		CMS	2	23n	D	3.2	2.4	10m	0.4	0.0	6.0	500m		4	8	2	74-75	DL16ao
13	MC74HC75N(A)		CMS	2	23n	D	3.2	2.4	10m	0.4	0.0	6.0	500m		4	8	2	74-75	DL16dp
14	883/4043B		CMS	2	100n	R/S	8.2	6.7	3.4m	1.5	0.0	15	300m	NOR	5	5	4	40-43	MC001AG
15	883/4044B		CMS	2	100n	R/S	8.2	6.7	3.4m	1.5	0.0	15	300m	NAND	5	5	4	40-44	MC001AG
16#	HD14043B		CMS	3	350n	R/S	3.5	1.5			0.0	18	300m		4	8	4	L00-1	DL16p
17#	HD14044B		CMS	3	350n	R/S	3.5	1.5			0.0	18	300m		4	8	4	L00-21	DL16p
18	CDP1868E		CMS	4		D	3.5*	1.5Δ	1.6m	40	0.0	10.5	400m	W/Decode	4	8	1	L0-115	DL18n
19	CDP1867E		CMS	4		D	3.5*	1.5Δ	1.6m	40	0.0	10.5	400m	W/Decode	4	8	1	L0-114	DL18n
20#	M4042BP		CMS	4		D	11*	4.0Δ	2.4m	1.5	0.0	18	500m	COMP	4	8	1	L00-27	DL16db
21#	M4508BP		CMS	4		D	11.0*	4.0Δ	2.4m	1.5	0.0	18	0.5		4	8	2	45-08	DL24bm
22	CD4044AD		CMS	4		R/S	9.95*	.05Δ	500u	.50	0.0	10	200u%	NAND	4	5	1	40-44B	MC001AE
23	CD4044AE		CMS	4		R/S	9.95*	.05Δ	250u	.50	0.0	10	200u%	NAND	4	5	1	40-44B	MC001AC
24	CD4044AF		CMS	4		R/S	9.95*	.05Δ	500u	.50	0.0	10	200u%	NAND	4	5	1	40-44B	MC001AC
25#	M4043BP		CMS	4		R/S	11*	4.0Δ	2.4m	1.5	0.0	18	500m	NOR	4	8	1	L00-44	DL16db
26#	M4044BP		CMS	4		R/S	11.0*	4.0Δ	2.4m	1.5	0.0	18	0.5	NAND	4	8	1	L00-68	DL16db
27#	HEF4508		CMS	4	40n	D	11*	4.0Δ	3.0m	1.5	0.0	15	400m		4	8	2	45-08B	DLZ
28#	HEF4508BDF		CMS	4	40n	D	11.0*	4.0Δ	3.0m	1.5	0.0	15	400m		4	8	2	L00-67	DL24d
29#	HEF4508BPN		CMS	4	40n	D	11.0*	4.0Δ	3.0m	1.5	0.0	15	400m		4	8	2	L00-67	DL24s
30#	HCC4508BD		CMS	4	50n	D	11*	4.0Δ	3.4m	1.5	0.0	15			5	5	2	45-08B	DL24aj
31#	HCC4508BK		CMS	4	50n	D	11*	4.0Δ	3.4m	1.5	0.0	15			5	5	2	45-08B	FP109
32#	HCF4508BD		CMS	4	50n	D	11*	4.0Δ	3.4m	1.5	0.0	15			4	8	2	45-08B	DL24aj
33#	HCF4508BE		CMS	4	50n	D	11*	4.0Δ	3.4m	1.5	0.0	15			4	8	2	45-08B	MC0015AA
34#	HEF4043		CMS	4	50n	R/S	11*	4.0Δ	3.0m	1.5	0.0	15	400m	NOR	4	8	1	40-43B	DLZ
35#	HEF4043BDF		CMS	4	50n	R/S	11.0*	4.0Δ	3.0m	1.5	0.0	15	400m	NOR	4	8	1	L00-44	DL16at
36#	HEF4043BPN		CMS	4	50n	R/S	11.0*	4.0Δ	3.0m	1.5	0.0	15	400m	NOR	4	8	1	L00-44	DL16cc
37#	HEF4043BTD		CMS	4	50n	R/S	11.0*	4.0Δ	3.0m	1.5	0.0	15	200mZ	NOR	4	8	1	L00-44	FP148
38#	HEF4043P		CMS	4	50n	R/S	7.0*	3.0Δ	2.0m	.50	0.0	10	200u%	3 State	4	8	1	40-43B	DL16cb
39#	HEF4044B		CMS	4	50n	R/S	9.95*	.05Δ	1.1m	.50	0.0	10	20mZ	3 State	4	8	1	40-44B	DL16cb
40#	HEF4044P		CMS	4	50n	R/S	7.0*	3.0Δ	2.0m	.50	0.0	10	200u%	3 State	4	8	1	40-44B	DL16cb
41	4044BDC		CMS	4	52n	R/S	11*	4.0Δ	3.0m	1.5	0.0	15	9.0m%		4	8	1	40-44B	DL16cj
42	4044BDM		CMS	4	52n	R/S	11*	4.0Δ	3.4m	1.5	0.0	15	9.0m%		5	5	1	40-44B	DL16cj
43	4044BFC		CMS	4	52n	R/S	11*	4.0Δ	3.0m	1.5	0.0	15	9.0m%		4	8	1	40-44B	FP103
44	4044BFM		CMS	4	52n	R/S	11*	4.0Δ	3.4m	1.5	0.0	15	9.0m%		5	5	1	40-44B	FP103
45	4044BPC		CMS	4	52n	R/S	11*	4.0Δ	3.0m	1.5	0.0	15	9.0m%		4	8	1	40-44B	DL16cj
46	4043BDC		CMS	4	56n	R/S	11*	4.0Δ	3.0m	1.5	0.0	15	9.0m%		4	8	1	40-43B	DL16cj
47	4043BDM		CMS	4	56n	R/S	11*	4.0Δ	3.4m	1.5	0.0	15	9.0m%		5	5	1	40-43B	DL16cj
48	4043BFC		CMS	4	56n	R/S	11*	4.0Δ	3.0m	1.5	0.0	15	9.0m%		4	8	1	40-43B	FP103
49	4043BFM		CMS	4	56n	R/S	11*	4.0Δ	3.4m	1.5	0.0	15	9.0m%		5	5	1	40-43B	FP103
50	4043BPC		CMS	4	56n	R/S	11*	4.0Δ	3.0m	1.5	0.0	15	9.0m%		4	8	1	L00-44	DLZ
51#	HEF4044		CMS	4	60n	R/S	11*	4.0Δ	3.0m	1.5	0.0	15	400m	NAND	4	8	1	40-44B	DLZ
52#	HEF4044BDF		CMS	4	60n	R/S	11.0*	4.0Δ	3.0m	1.5	0.0	15	400m	NAND	4	8	1	L00-45	DL16at
53#	HEF4044BPN		CMS	4	60n	R/S	11.0*	4.0Δ	3.0m	1.5	0.0	15	400m	NAND	4	8	1	L00-45	DL16cc
54#	HEF4044BTD		CMS	4	60n	R/S	11.0*	4.0Δ	3.0m	1.5	0.0	15	200mZ	NAND	4	8	1	L00-45	FP148
55#	TC40375F		CMS	4	65n	D	4.0*	1.0Δ	800u	.40	0.0	5.0	300*		4	8	1	L00-45	DL16cr
56#	MC14508BAL		CMS	4	70n	D	11.0*	4.0Δ	3.0m	1.5	0.0	15	60u%	FOSO	5	5	2	L00-67	DL24u
57	MC14508BCL		CMS	4	70n	D	11.0*	4.0Δ	3.0m	1.5	0.0	15	240u%	FOSO	4	8	2	L00-67	DL24u
58	MC14508BCP		CMS	4	70n	D	11.0*	4.0Δ	3.0m	1.5	0.0	15	240u%	FOSO	4	8	2	L00-67	DL24o
59	4042BDC		CMS	4	72n	D	11*	4.0Δ	3.0m	1.5	0.0	15	9.0m%	COMPL	4	8	1	40-42B	DL16cj
60	4042BDM		CMS	4	72n	D	11*	4.0Δ	3.4m	1.5	0.0	15	9.0m%	COMPL	5	5	1	40-42B	DL16cj
61	4042BFC		CMS	4	72n	D	11*	4.0Δ	3.0m	1.5	0.0	15	9.0m%	COMPL	4	8	1	40-42B	FP103
62	4042BFM		CMS	4	72n	D	11*	4.0Δ	3.4m	1.5	0.0	15	9.0m%	COMPL	5	5	1	40-42B	FP103
63	4042BPC		CMS	4	72n	D	11*	4.0Δ	3.0m	1.5	0.0	15	9.0m%	COMPL	4	8	1	40-42B	*
64#	HEF4042		CMS	4	75n	D	11*	4.0Δ	3.0m	1.5	0.0	15	400m	COMPL	4	8	1	40-42B	DLZ
65#	HEF4042BDF		CMS	4	75n	D	11.0*	4.0Δ	3.0m	1.5	0.0	15	400m	COMP	4	8	1	L00-43	DL16at
66#	HEF4042BPN		CMS	4	75n	D	11.0*	4.0Δ	3.0m	1.5	0.0	15	400m	COMP	4	8	1	L00-43	DL16cc
67#	HEF4042BTD		CMS	4	75n	D	11.0*	4.0Δ	3.0m	1.5	0.0	15	200mZ	COMP	4	8	1	L00-43	FP148
68	883/4042B		CMS	4	80n	D	8.2	6.7	3.4m	1.5	0.0	15	300†	COMP	5	5	4	40-42	MC001AG
69	4723BDC		CMS	4	80n	D	11*	4.0Δ	3.0m	1.5	0.0	15	9.0m%	addrbsble	4	8	2	L00-74	DL16cj
70	4723BDM		CMS																

26. LATCHES

IN ORDER OF: (1) TECHNOLOGY (2) BITS (3) PROPAGATION DELAY (4) TYPE CODE (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	BITS	MAX. PROP. DELAY (S)	TYPE CODE	LOGIC LEVEL		MINIMUM SINK CURRENT		POWER SUPPLY SPAN		MAX. OPER. POWER DISS. (W)	FEATURES	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS		
							MIN. (V)	MAX. (V)	(A)	@ V _o (V)	NEG. (V)	POS. (V)					LOGIC OR BLOCK	OUTLINE	
1	MC14044BCP		CMS	4	120n	R/S	11.0*	4.0Δ	3.0m	1.5	0.0	15	240u%		4	8	1	40-44B	DL16bo
2	883/4508B		CMS	4	120n	T	8.2	6.7	3.4m	1.5	0.0	15	300m		5	8	2	45-08	MO015AA
3#	HBC4042AD		CMS	4	125n	D	9.99*	.01Δ	1.0m	.50	0.0	10	20u%		5	8	1	L00-27	DL16cm
4#	HBC4042AF		CMS	4	125n	D	9.99*	.01Δ	1.0m	.50	0.0	10	20u%	COMPL	5	8	1	L00-27	DL16aq
5#	HBC4042AK		CMS	4	125n	D	9.99*	.01Δ	1.0m	.50	0.0	10	20u%	COMPL	5	8	1	L00-27	FP131
6#	HEF4042P		CMS	4	132n	D	7.0*	3.0Δ	2.0m	.50	0.0	10	200u%	COMP	4	8	1	40-42B	DL16cb
7	CD4042BD		CMS	4	150n	D	9.95	.05C	1.3m	.50	0.0	10	100u%	COMPL	5	8	1	40-42B	MO001AE
8	CD4042BE		CMS	4	150n	D	9.95	.05C	1.3m	.50	0.0	10	100u%	COMPL	4	8	1	40-42B	MO001AC
9	CD4042BF		CMS	4	150n	D	9.95	.05C	1.3m	.50	0.0	10	100u%	COMPL	5	8	1	40-42B	MO001AC
10	CD4723BCJ		CMS	4	150n	D	11*	4.0Δ	3.0m	1.5	0.0	15	1.2m%	ADDR	4	8	2	L00-87	DL16au
11	CD4723BCN		CMS	4	150n	D	11*	4.0Δ	3.0m	1.5	0.0	15	1.2m%	ADDR	4	8	2	L00-87	DL16bu
12	CD4723BMJ		CMS	4	150n	D	11*	4.0Δ	3.4m	1.5	0.0	15	300u%	ADDR	5	8	2	L00-87	DL16au
13	CD4723BMW		CMS	4	150n	D	11*	4.0Δ	3.4m	1.5	0.0	15	300u%	ADDR	5	8	2	L00-87	FP88c
14	SCL4042B		CMS	4	150n	D	9.95*	.05Δ	1.3m	.50	1.1	10	30u%	COMPL	5	8	1	40-42B	DL16ar
15	CD4043MJ		CMS	4	175n	R/S	9.99*	.01Δ	500u	.50	0.0	10	20u%	NOR	5	8	1	40-43B	DL16au
16	CD4043MW		CMS	4	175n	R/S	9.99*	.01Δ	500u	.50	0.0	10	20u%	NOR	5	8	1	40-43B	FP88c
17	CD4044MJ		CMS	4	175n	R/S	9.99*	.01Δ	500u	.50	0.0	10	20u%	NAND	5	8	1	40-44B	DL16au
18	CD4044MW		CMS	4	175n	R/S	9.99*	.01Δ	500u	.50	0.0	10	20u%	NAND	5	8	1	40-44B	FP88c
19#	HBC4043AD		CMS	4	175n	R/S	9.95*	.05Δ	500u	.50	0.0	10	20u%	NOR	5	8	1	40-43B	DL16cm
20#	HBC4043AF		CMS	4	175n	R/S	9.95*	.05Δ	500u	.50	0.0	10	20u%	NOR	5	8	1	40-43B	DL16aq
21#	HBC4043AK		CMS	4	175n	R/S	9.95*	.05Δ	500u	.50	0.0	10	20u%	NOR	5	8	1	40-43B	FP131
22#	HBC4044AD		CMS	4	175n	R/S	9.95*	.05Δ	500u	.50	0.0	10	20u%	NAND	5	8	1	40-44B	DL16cm
23#	HBC4044AF		CMS	4	175n	R/S	9.95*	.05Δ	500u	.50	0.0	10	20u%	NAND	5	8	1	40-44B	DL16aq
24#	HBC4044AK		CMS	4	175n	R/S	9.95*	.05Δ	500u	.50	0.0	10	20u%	NAND	5	8	1	40-44B	FP131
25	SCL4508B		CMS	4	180n	D	9.99	.01C	1.3m	.50	0.0	15	300m	late Out	5	8	2	45-08B	DL16cr
26#	TC4043BP		CMS	4	180n	R/S	14.9*	.05Δ	3.0m	1.5	0.0	15	300m	NOR	4	8	1	40-43B	DL16cr
27#	TC4044BP		CMS	4	180n	R/S	14.9*	.05Δ	3.0m	1.5	0.0	15	300m	NAND	4	8	1	40-43B	DL16cr
28	CD4042AD		CMS	4	200n	D	9.99*	.01Δ	1.0m	.50	0.0	10	20u%	COMPL	5	8	1	40-42B	MO001AE
29	CD4042AF		CMS	4	200n	D	9.99*	.01Δ	1.0m	.50	0.0	10	20u%	COMPL	5	8	1	40-42B	MO001AC
30#	HBFC402AE		CMS	4	200n	D	9.99*	.01Δ	500u	.50	0.0	10	200u%	COMPL	4	8	1	L00-27	DL16bi
31#	HBFC402AF		CMS	4	200n	D	9.99*	.01Δ	500u	.50	0.0	10	200u%	COMPL	4	8	1	L00-27	DL16aq
32#	TC4508BP		CMS	4	200n	D	14.9*	.05Δ	3.0m	1.5	0.0	15	300m		4	8	2	L00-59	DL24ao
33	CD4043AD		CMS	4	200n	R/S	9.95*	.05Δ	500u	.50	0.0	10	200u%	NOR	5	8	1	40-43B	MO001AE
34	CD4043AE		CMS	4	200n	R/S	9.95*	.05Δ	250u	.50	0.0	10	200u%	NOR	4	8	1	40-43B	MO001AC
35	CD4043AF		CMS	4	200n	R/S	9.95*	.05Δ	500u	.50	0.0	10	200u%	NOR	5	8	1	40-43B	MO001AC
36	CD4043CJ		CMS	4	200n	R/S	9.99*	.01Δ	250u	.50	0.0	10	200u%	NOR	4	8	1	40-43B	DL16au
37	CD4043CN		CMS	4	200n	R/S	9.99*	.01Δ	250u	.50	0.0	10	200u%	NOR	4	8	1	40-43B	DL16bu
38	CD4044CJ		CMS	4	200n	R/S	9.99*	.01Δ	250u	.50	0.0	10	200u%	NAND	4	8	1	40-44B	DL16au
39	CD4044CN		CMS	4	200n	R/S	9.99*	.01Δ	250u	.50	0.0	10	200u%	NAND	4	8	1	40-44B	DL16bu
40#	HBFC4043AE		CMS	4	200n	R/S	9.95*	.05Δ	250u	.50	0.0	10	200u%	NOR	4	8	1	40-43B	DL16bj
41#	HBFC4043AF		CMS	4	200n	R/S	9.95*	.05Δ	250u	.50	0.0	10	200u%	NOR	4	8	1	40-43B	DL16aq
42#	HBFC4044AE		CMS	4	200n	R/S	9.95*	.05Δ	250u	.50	0.0	10	200u%	NAND	4	8	1	40-44B	DL16bj
43#	HBFC4044AF		CMS	4	200n	R/S	9.95*	.05Δ	250u	.50	0.0	10	200u%	NAND	4	8	1	40-44B	DL16aq
44#	MSM4043		CMS	4	200n	R/S	7.2*	2.0Δ	3.0m	.50	0.0	10	2.8m%	NOR	2	7	1	40-43B	DL16cq
45#	MSM4044		CMS	4	200n	R/S	7.2*	2.0Δ	3.0m	.50	0.0	10	2.8m%	NAND	2	7	1	40-44B	DL16cg
46	CD4042AE		CMS	4	250n	D	9.99*	.01Δ	500u	.50	0.0	10	200u%	COMPL	4	8	1	40-42B	MO001AC
47#	HD14076B		CMS	4	300n	D	3.5	1.5			0.0	18	300m		4	8	4	L0-121	DL16p
48#	TC4042BP		CMS	4	300n	D	14.9*	.05Δ	3.0m	1.5	0.0	15	300m		4	8	1	40-42B	DL16cr
49	SCL4043B		CMS	4	350n	R/S	13.5*	.45Δ			0.0	12	300u%	NOR	5	8	1	40-43B	DLZ
50	SCL4044B		CMS	4	350n	R/S	13.5*	.45Δ			0.0	12	300u%	NAND	5	8	1	40-44B	DLZ
51#	MSM4042		CMS	4	400n	D	7.2*	2.0Δ	3.0m	0.5	0.0	16	200m	Clocked	2	7	4	L00-27	DL16cg
52#	MSM4508RS		CMS	4	400n	D	3.6*	1.0Δ			0.3	16	200m		4	8	2		DL24Z
53#	HD14042B		CMS	4	440n	D	3.5	1.5			0.0	18	300m		4	8	4	L00-3	DL16p
54#	HD14508B		CMS	4	440n	D	3.5	1.5			0.0	18	300m		4	8	2	L0-122	DL24ao
55#	M4099BP		CMS	8		D	11.0*	4.0Δ	2.4m	1.5	0.0	18	0.5	ADDR	4	8	1	L00-88	DL16db
56	MM74C373N		CMS	8		D	3.5*	1.5Δ	1.6m		0.0	5.0	500m		0	7	1	74LS363	DLZ
57	HEF40373B(A)		CMS	8		T	3.5*	1.5	1.0u	0.5	0.5	18	400m	Xparent	4	8	8	40-373	DLZ
58#	74HCT373C		CMS	8	38n	D	2.0*	0.8	-20u	0.4	0.5	7.0	0.5	transpar	4	8	8	74LS373	DL20aa
59#	74HCT373D		CMS	8	38n	D	2.0*	0.8	-20u	0.4	0.5	7.0	0.5	transpar	4	8	8	74LS373	DL20z
60#	74HCT373P		CMS	8	38n	D	2.0*	0.8	-20u	0.4	0.5	7.0	0.5	transpar	4	8	8	74LS373	DL20y
61#	74HCT533C		CMS	8	38n	D	2.0*	0.8	-20u	0.4	0.5	7.0	0.5	transpar	4	8	8	74LS533	DL20aa
62#	74HCT533D		CMS	8	38n	D	2.0*	0.8	-20u	0.4	0.5	7.0	0.5	transpar	4	8	8	74LS533	DL20z
63#	74HCT533P		CMS	8	38n	D	2.0*	0.8	-20u	0.4	0.5	7.0	0.5	transpar	4	8	8	74LS533	DL20y
64#	74HCT563C		CMS	8	38n	D	2.0*	0.8	-20u	0.4	0.5	7.0	0.5	transpar	4	8	8	74LS563	DL20aa
65#	74HCT563D		CMS	8	38n	D	2.0*	0.8	-20u	0.4	0.5	7.0	0.5	transpar	4	8	8	74LS563	DL20z
66#	74HCT563P		CMS	8	38n	D	2.0*	0.8	-20u	0.4	0.5	7.0	0.5	transpar	4	8	8	74LS563	DL20y
67#	74HCT573C		CMS	8	38n	D	2.0*	0.8	-20u	0.4	0.5	7.0	0.5	transpar	4	8	8	74LS573	DL20aa
68#	74HCT573D		CMS	8	38n	D	2.0*	0.8	-20u	0.4	0.5	7.0	0.5	transpar	4	8	8	74LS573	DL20z
69#	74HCT573P		CMS	8	38n	D	2.0*	0.8	-20u	0.4	0.5	7.0	0.5	transpar	4	8	8	74LS573	DL20y
70#	54HCT373C		CMS	8	47n	D	2.0*	0.7	-20u	0.4	0.5	7.0	0.5	transpar	5	8	8	74LS373	DL20aa
71#	54HCT373D		CMS	8	47n	D	2.0*	0.7	-20u	0.4	0.5	7.0	0.5	transpar	5	8	8	74LS373	DL20z
72#	54HCT373P		CMS	8	47n	D	2.0*	0.7	-20u	0.4	0.5	7.0	0.5	transpar	5	8	8	74LS373	DL20aa
73#	54HCT563C		CMS	8	47n	D	2.0*	0.7	-20u	0.4	0.5	7.0	0.5	transpar	5	8	8	74LS563	DL20aa
74#	54HCT563D		CMS	8	47n	D	2.0*	0.7	-20u	0.4	0.5	7.0	0.5	transpar	5	8	8	74LS563	DL20z
75#	54HCT563P		CMS	8	47n	D	2.0*	0.7	-20u	0.4	0.5	7.0	0.5	transpar	5	8	8	74LS563	DL20aa
76#	54HCT573D		CMS	8	47n	D	2.0*	0.7	-20u	0.4	0.5	7.0	0.5	transpar	5	8	8	74LS573	DL20z
77#	74SC373C		CMS	8	47n	D	2.0*	0.8	-20u	0.4	0.5	7.0	0.5	transpar	4	8	8	74LS373	DL20aa
78#																			

26. LATCHES

IN ORDER OF:(1)TECHNOLOGY(2)BITS(3)PROPAGA-TION DELAY(4)TYPE CODE(5)TYPE NO.

LINE NO.	TYPE NO.	DATA SHT.	TECH	BITS	MAX. PROP. DELAY (S)	TYPE CODE	LOGIC LEVEL		MINIMUM SINK CURRENT @ Vo (V)	POWER SUPPLY		MAX. OPER. POWER DISS. (W)	FEATURES	OPER. TEMP. RANGE CODE	CKTS PER MOD	LOGIC OR BLOCK	DRAWINGS OUTLINE		
							MIN. "1" (V)	MAX. "0" (V)		NEG. (V)	POS. (V)								
1	MC14099BAL		CMS	8	100n	D	11*	4.0Δ	3.0m	1.5	0.0	15	9.0m%	addrsble	5	C	1	40-99B	DL16am
2	MC14099BCL		CMS	8	100n	D	11*	4.0Δ	3.0m	1.5	0.0	15	9.0m%	addrsble	4	C	1	40-99B	DL16am
3	MC14099BCP		CMS	8	100n	D	11*	4.0Δ	3.0m	1.5	0.0	15	9.0m%	addrsble	4	C	1	40-99B	DL16bo
4	MC14599BAL		CMS	8	100n	D	11*	4.0Δ	3.0m	1.5	0.0	15	9.0m%	addrsble	5	C	1	45-99B	DL18c
5	MC14599BCL		CMS	8	100n	D	11*	4.0Δ	3.0m	1.5	0.0	15	9.0m%	addrsble	4	C	1	45-99B	DL18c
6	MC14599BCP		CMS	8	100n	D	11*	4.0Δ	3.0m	1.5	0.0	15	9.0m%	addrsble	4	C	1	45-99B	DL18c
7	883/4099B		CMS	8	100n	R/S	8.2	6.7	3.4m	1.5	0.0	15	300m	ADDR	5	C	4	40-99	MO001AG
8	SCL4099B		CMS	8	100n	R/S	8.2	6.7	3.4m	1.5	0.0	15	300m	ADDR	5	C	4	40-99	MO001AG
9	CD4099BCJ		CMS	8	150n	D	11*	4.0Δ	3.0m	1.5	0.0	15	1.2m%	ADDR	4	C	1	40-99B	DL16au
10	CD4099BCN		CMS	8	150n	D	11*	4.0Δ	3.0m	1.5	0.0	15	1.2m%	ADDR	4	C	1	40-99B	DL16bu
11	CD4099BD		CMS	8	150n	D	11*	4.0Δ	3.4m	1.5	0.0	15	500m	ADDR	5	C	1	40-99B	MO001AE
12	CD4099BE		CMS	8	150n	D	11*	4.0Δ	3.4m	1.5	0.0	15	500m	ADDR	4	C	1	40-99B	MO001AC
13	CD4099BF		CMS	8	150n	D	11*	4.0Δ	3.4m	1.5	0.0	15	500m	ADDR	5	C	1	40-99B	MO001AC
14	CD4099BMJ		CMS	8	150n	D	11*	4.0Δ	3.4m	1.5	0.0	15	300u%	ADDR	5	C	1	40-99B	DL16au
15	CD4099BMW		CMS	8	150n	D	11*	4.0Δ	3.4m	1.5	0.0	15	300u%	ADDR	5	C	1	40-99B	FP88c
16	CD4724BCJ		CMS	8	150n	D	11*	4.0Δ	3.0m	1.5	0.0	15	1.2m%	ADDR	4	C	1	L00-88a	DL16au
17	CD4724BCN		CMS	8	150n	D	11*	4.0Δ	3.0m	1.5	0.0	15	1.2m%	ADDR	4	C	1	L00-88a	DL16au
18	CD4724BMJ		CMS	8	150n	D	11*	4.0Δ	3.4m	1.5	0.0	15	300u%	ADDR	5	C	1	L00-88a	DL16au
19	CD4724BMW		CMS	8	150n	D	11*	4.0Δ	3.4m	1.5	0.0	15	300u%	ADDR	5	C	1	L00-88a	FP88c
20	MC14597BAL		CMS	8	200n	D	11*	4.0Δ	12m†	1.5	0.0	15	9.0m%	W/cntr	5	C	1	45-97B	DL16am
21	MC14597BCL		CMS	8	200n	D	11*	4.0Δ	12m†	1.5	0.0	15	9.0m%	W/cntr	4	C	1	45-97B	DL16am
22	MC14597BCP		CMS	8	200n	D	11*	4.0Δ	12m†	1.5	0.0	15	9.0m%	W/cntr	4	C	1	45-97B	DL16bo
23	MC14598BAL		CMS	8	200n	D	11*	4.0Δ	12m†	1.5	0.0	15	9.0m%	Bin Addr	5	C	1	45-98B	DL18c
24	MC14598BCL		CMS	8	200n	D	11*	4.0Δ	12m†	1.5	0.0	15	9.0m%	Bin Addr	4	C	1	45-98B	DL18c
25	MC14598BCP		CMS	8	200n	D	11*	4.0Δ	12m†	1.5	0.0	15	9.0m%	Bin Addr	4	C	1	45-98B	DL18c
26#	TC4099BP		CMS	8	200n	D	14.9*	1.0Δ	3.0m	1.5	0.0	15	300m	ADDR	4	C	1	40-99B	DL16cr
27#	MC54HC373J#mil		CMS	8.0	30	D	3.85	1.10			0.5	7.0	500m		5	C	8	L0-111	DL20Z†
28	MC54HC533J#mil		CMS	8.0	30	D	3.85	1.10			0.5	7.0	500m	COMP	5	C	8	L0-120	DL20Z
29	MC74HC373J#ai		CMS	8.0	30	D	3.85	1.10			0.5	7.0	500m		4	C	8	L0-111	DL20Z
30	MC74HC373N#ai		CMS	8.0	30	D	3.85	1.10			0.5	7.0	500m		4	C	8	L0-111	DL20Z
31	MC74HC533J#ai		CMS	8.0	30	D	3.85	1.10			0.5	7.0	500m		4	C	8	L0-120	DL20Z
32	MC74HC533N#ai		CMS	8.0	30	D	3.85	1.10			0.5	7.0	500m		4	C	8	L0-120	DL20Z
33	MC142100AL		CMS	16	60n	R/S	8.25	6.75C			3	18	6.0n		5	C	1	L00-102	
34	MC142100CL		CMS	16	60n	R/S	8.25	6.75C			3	18	6.0n		4	C	1	L00-102	
35	MC142100CP		CMS	16	60n	R/S	8.25	6.75C			3	18	6.0n		4	C	1	L00-102	
36	MC145100AL		CMS	16	60n	R/S	8.25	6.75C			5	18	2.6m		5	C	1	L00-102	
37	MC145100CL		CMS	16	60n	R/S	8.25	6.75C			5	18	2.6m		4	C	1	L00-102	
38	MC145100CP		CMS	16	60n	R/S	8.25	6.75C			5	18	2.6m		4	C	1	L00-102	
39	MC1813L		DTL	2	80n	D	2.6*	.45Δ	12m	1.1	0.0	5.0	220m†	F Compl	0	7	2	L00-16	DL16aj
40	MC1813P		DTL	2	80n	D	2.6*	.45Δ	12m	1.1	0.0	5.0	220m†	F Compl	0	7	2	L00-16	DL16bo
41	MC1814L		DTL	2	80n	D	2.6*	.45Δ	12m	1.1	0.0	5.0	220m†	P Compl	0	7	2	L00-17	TO116
42	MC1814P		DTL	2	80n	D	2.6*	.45Δ	12m	1.1	0.0	5.0	220m†	P Compl	0	7	2	L00-17	TO116
43	MC1914F		DTL	2	80n	D	2.6*	.40Δ	12m	1.1	0.0	5.0	220m†	P Compl	5	C	2	L00-17	TO116
44	MC1914L		DTL	2	80n	D	2.6*	.40Δ	12m	1.1	0.0	5.0	220m†	P Compl	5	C	2	L00-17	TO116
45	F100130DC		ECL	1	1.1n	D	-1.1*	-1.4Δ	20m	-1.0	4.5	0.0	670m%		0	7	3	L00-79	DL24an
46	F100130FC		ECL	1	1.1n	D	-1.1*	-1.4Δ	20m	-1.0	4.5	0.0	670m%		0	7	3	L00-79	FP126
47	F100150DC		ECL	1	2.5n	D	-1.1*	-1.4Δ	20m	-1.0	4.5	0.0	715m%		0	7	6	L00-80	DL24an
48	F100150FC		ECL	1	2.5n	D	-1.1*	-1.4Δ	20m	-1.0	4.5	0.0	715m%		0	7	6	L00-80	FP126
49#	GXB10130D		ECL	1	3.9n	D	±.70	±.19			5.2	0.0		Compl	3	8	2	L00-55	DL16dz
50#	GXB10130P		ECL	1	3.9n	D	±.70	±.19			5.2	0.0		Compl	3	8	2	L00-55	DL16dy
51#	GXB10175D		ECL	1	4.4n	D	-1.70	-1.9			5.2	0.0			3	8	5	L00-15	DL16dz
52#	GXB10175P		ECL	1	4.4n	D	-1.70	-1.9			5.2	0.0			3	8	5	L00-15	DL16dy
53#	GXB10133P		ECL	1	5.9n	D	-1.70	-1.9			5.2	0.0			3	8	4	L00-37	DL16dy
54#	HD10230		ECL	2	2.0n	D	-.81	-1.8C			5.2	0.0	200m		3	8	2	L0-117	DL16p
55#	HD10130		ECL	2	3.5n	D	-.81	-1.8C			5.2	0.0	200m		3	8	2	L0-117	DL16p
56#	HD10175		ECL	2	3.5n	D	-.81	-1.8C			5.2	0.0	200m		3	8	5	L00-15	DL16p
57#	GXB10133D		ECL	2	5.4n	D	-.81	-1.4			5.2	0.0			3	8	4	L00-37	DL16gb
58#	HD100130		ECL	3	1.7n	D	-1.2*	-1.5Δ			5.7	0.0	40m†		0	8	3	L00-79	DL24aw
59#	HD10133		ECL	4	5.4n	D	-.81	-1.8C			5.2	0.0	200m		0	8	4	L0-118	DL16p
60#	HD100150F		ECL	6	1.7n	D	-1.2*	-1.5Δ			5.7	0.0	40m†		0	8	6	L00-80	FP146
61#	HD100155		ECL	8	2.4n	D	-1.2*	-1.5Δ			5.7	0.0	40m†	transpar	0	8	4	L0-123	DL24aw
62#	HD100155F		ECL	8	2.4n	D	-1.2*	-1.5Δ			5.7	0.0	40m†	transpar	0	8	4	L0-123	FP146
63	F100155FC		ECL	8	3.3n	D	-0.9Δ	-1.8*			4.5	0.0			0	8	4	L0-123	FP139
64	F100155DC		ECL	8	3.5n	D	-0.9Δ	-1.8*			4.5	0.0			0	8	4	L0-123	DL24an
65#	GXB10130		ECT	1	2.0n	D	-.88	-1.7C	20m	-.96	5.2	0.0	110m†	COMP	0	7	2	L00-55	DL16r
66#	GXB10175		ECT	1	2.0n	D	-.88	-1.7C	20m	-.96	5.2	0.0	110m†	COMP	0	7	5	L00-15	DL16r
67	MC1668F		ECT	1	2.5n	R/S	-.96*	-1.6Δ	20m	-.96	5.2	0.0	220m†	FO-70	3	8	2	L00-11	FP85
68	MC1668L		ECT	1	2.5n	R/S	-.96*	-1.6Δ	20m	-.96	5.2	0.0	220m†	FO-70	3	8	2	L00-11	DL16aj
69	SN10132J		ECT	1	3.5n	D	-.98*	-1.6Δ	24m	-.81	5.2	0.0	208m	MUX In	0	8	2	L00-56	DL16v
70	SN10132N		ECT	1	3.5n	D	-.98*	-1.6Δ	24m	-.81	5.2	0.0	208m	MUX In	0	8	2	L00-56	DL16i
71	SN10134J		ECT	1	3.5n	D	-.98*	-1.6Δ	24m	-.81	5.2	0.0	215m	MUX In	0	8	2	L00-38	DL16v
72	SN10134N		ECT	1	3.5n	D	-.98Δ	-1.6Δ	24m	-.81	5.2	0.0	215m	MUX In	0	8	2	L00-38	DL16i
73	MC10530F		ECT	1	4.0n	D	-.93*	-1.6Δ	10m	-.93	5.2	0.0	155m†	COMPL	5	C	2	L00-14	FP85
74	MC10530L		ECT	1	4.0n	D	-.93*	-1.6Δ	10m	-.93	5.2	0.0	155m†	COMPL	5	C	2	L00-14	DL16aj
75	SN10130J		ECT	1	4.0n	D	-.98*	-1.6Δ	24m	-.81	5.2	0.0	114m†		0	8	2	L00-36	DL16v
76	SN10130N		ECT	1	4.0n	D	-.98*	-1.6Δ	24m	-.81	5.2	0.0	114m†		0	8	2	L00-36	DL16i
77	10130F		ECT	1	4.5m	D/R	-.96*	-1.6C	20m	-.96	5.2	0.0	175m	MULT	3	8	1	L00-55	DL16ak
78	SN10133J		ECT	2		D	-.98*	-1.6Δ	24m	-.81	5.2	0.0	390m†		0	8	2	L00-37	DL16v
79	SN10133N		ECT	2		D	-.98*	-1.6Δ	24m	-.81	5.2	0.0	390m		0	8	2	L00-37	DL16i
80#	GXB																		

26. LATCHES

IN ORDER OF: (1)TECHNOLOGY(2)BITS(3)PROPAGATION DELAY(4)TYPE CODE(5)TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	BITS	MAX. PROP. DELAY (S)	TYPE CODE	LOGIC LEVEL		MINIMUM SINK CURRENT		POWER SUPPLY		MAX. OPER. POWER DISS. (W)	FEATURES	OPER. TEMP. RANGE CODE	CKTS PER MOD	LOGIC OR BLOCK	DRAWINGS OUTLINE
							MIN. '1' (V)	MAX. '0' (V)	(A)	@ V _o (V)	NEG. (V)	POS. (V)						
1	MC10568L		ECT	4	5.4n	D	-.93*	-1.6Δ	10m	-.93	5.2	0.0	390m		5	C	L00-13	DL16am
2	SN10175J		ECT	5		D	-.98*	-1.6Δ	24m	-.81	5.2	0.0	300m		0	8	L00-39	DL16v
3	SN10175N		ECT	5		D	-.98*	-1.6Δ	24m	-.81	5.2	0.0	300m		0	8	L00-39	DL16i
4	10175F		ECT	5	2.5n	D	-.96*	-1.6Δ	20m	-.96	5.2	0.0	485m		3	8	L00-15	DL16ak
5	F10175DC		ECT	5	4.3n	D	-.96*	-1.6Δ	20m	-.96	5.2	0.0	504m%	Q Latch	0	7	L00-78	DL16cj
6	F10575DM		ECT	5	4.3n	D	-.93*	-1.6Δ	10m	-.93	5.2	0.0	504m%	nt Latch	5	C	L00-78	DL16cj
7	F10575FM		ECT	5	4.3n	D	-.93*	-1.6Δ	10m	-.93	5.2	0.0	504m%	nt Latch	5	C	L00-78	FP103
8	MC10175L		ECT	5	4.3n	D	-.96*	-1.6Δ	20m	-.96	5.2	0.0	504m	Q Latch	3	8	L00-78	DL16am
9	MC10175P		ECT	5	4.3n	D	-.96*	-1.6Δ	20m	-.96	5.2	0.0	504m	Q Latch	3	8	L00-78	DL16bo
10	MC10575F		ECT	5	4.3n	D	-.96*	-1.6Δ	10m	-.96	5.2	0.0	504m	Q Latch	5	C	L00-78	FP85
11	MC10575L		ECT	5	4.3n	D	-.93*	-1.6Δ	10m	-.96	5.2	0.0	504m	Q Latch	5	C	L00-78	DL16am
12	100150FC		ECT	6	750p	D					4.5	0.0	490m†		0	7	L00-51	FP26
13#	SAB8282C		MOS	8		T	2.0	0.8	32m	0.45	0.5	7.0	1.0	ADDR	0	7	L0-131	DL20S
14#	SAB8282C		MOS	8		T	2.0	0.8	32m	0.45	0.5	7.0	1.0	ADDR	0	7	L0-131	DL20t
15#	SAB8283C		MOS	8		T	2.0	0.8	32m	0.45	0.5	7.0	1.0	ADDR	0	7	L0-131	DL20S
16#	SAB8283P		MOS	8		T	2.0	0.8	32m	0.45	0.5	7.0	1.0	ADDR	0	7	L0-131	DL20t
17	SN54279J		TTL	1	22n	R/S	2.0*	.80Δ	16m	.40	0.0	5.0	150m		5	C	74-279N	DL16v
18	SN54279W		TTL	1	22n	R/S	2.0*	.80Δ	16m	.40	0.0	5.0	150m		5	C	54-279W	MO004AG
19	SN74279J		TTL	1	22n	R/S	2.0*	.80Δ	16m	.40	0.0	5.0	150m		0	7	74-279N	DL16v
20	SN74279N		TTL	1	22n	R/S	2.0*	.80Δ	16m	.40	0.0	5.0	150m		4	7	74-279N	DL16i
21	S4LS279DM		TTL	1	27n	R/S	2.0*	.70Δ	4.0m	.40	0.0	5.0	35m		5	C	74-279N	DL16cj
22	S4LS279FM		TTL	1	27n	R/S	2.0*	.70Δ	4.0m	.40	0.0	5.0	35m		5	C	74-279	FP103
23	S4LS279DC		TTL	1	27n	R/S	2.0*	.80Δ	8.0m	.50	0.0	5.0	35m		0	7	74-279N	DL16cj
24	S4LS279PC		TTL	1	27n	R/S	2.0*	.80Δ	8.0m	.50	0.0	5.0	35m		4	7	74-279N	
25#	M74LS279P		TTL	1	27n	R/S	2.0*	.80Δ	8.0m†	.50	0.0	5.0	19m†		2	7	74-279N	DL16bm
26	N74LS279F		TTL	1	27n	R/S	2.0*	.80Δ	8.0m	.50	0.0	5.0	35m		0	7	74-279N	DL16aw
27	N74LS279N		TTL	1	27n	R/S	2.0*	.80Δ	8.0m	.50	0.0	5.0	35m		4	7	74-279N	DL16bp
28	N74279F		TTL	1	27n	R/S	2.0*	.80Δ	16m	.40	0.0	5.0	150m		4	7	74-279N	DL16aw
29	N74279N		TTL	1	27n	R/S	2.0*	.80Δ	16m	.40	0.0	5.0	150m		4	7	74-279N	DL16bp
30	S4LS279F		TTL	1	27n	R/S	2.0*	.70Δ	4.0m	.40	0.0	5.0	35m		5	C	74-279N	DL16aw
31	S54LS279W		TTL	1	27n	R/S	2.0*	.70Δ	4.0m	.40	0.0	5.0	35m		4	7	54-279W	FP47g
32	S54279F		TTL	1	27n	R/S	2.0*	.80Δ	16m	.40	0.0	5.0	150m		4	7	74-279N	DL16aw
33	S54279W		TTL	1	27n	R/S	2.0*	.80Δ	16m	.40	0.0	5.0	150m	NAND NAND	5	C	54-279	FP47g
34	SN54LS279J		TTL	1	27n	R/S	2.0*	.70Δ	4.0m	.40	0.0	5.0	35m	Di Clmp	5	C	74-279N	DL16v
35	SN54LS279W		TTL	1	27n	R/S	2.0*	.70Δ	4.0m	.40	0.0	5.0	35m	Di Clmp	5	C	54-279W	MO004AG
36	SN74LS279J		TTL	1	27n	R/S	2.0*	.80Δ	4.0m	.40	0.0	5.0	35m	Di Clmp	0	7	74-279N	DL16v
37	SN74LS279N		TTL	1	27n	R/S	2.0*	.80Δ	4.0m	.40	0.0	5.0	35m	Di Clmp	0	7	74-279N	DL16i
38	S4LS375DM		TTL	2		D	2.0*	.70Δ	4.0m	.40	0.0	5.0	60m	F Compl	5	C	74LS375N	DL16cj
39	S4LS375FM		TTL	2		D	2.0*	.70Δ	4.0m	.40	0.0	5.0	60m	F Compl	5	C	54LS375W	FP103
40	SN54LS77J		TTL	1	19n	D	2.0*	.70Δ	4.0m	.40	0.0	5.0	60m		2	7	74LS77N	DL14ci
41	SN54LS77W		TTL	1	19n	D	2.0*	.70Δ	4.0m	.40	0.0	5.0	65m	Di Clmp	5	C	54-77W	MO004AA
42	SN74LS77J		TTL	1	19n	D	2.0*	.80Δ	8.0m	.50	0.0	5.0	60m		0	7	74LS77N	DL14ci
43	SN74LS77N		TTL	1	19n	D	2.0*	.80Δ	8.0m	.50	0.0	5.0	60m		2	7	74LS77N	DL14ci
44#	M74LS75P		TTL	1	27n	D	2.0*	.80Δ	8.0m†	.50	0.0	5.0	32m†		0	7	74-75N	DL16bm
45#	M74LS75F		TTL	1	27n	D	2.0*	.80Δ	8.0m†	.50	0.0	5.0	32m†		2	7	74-75N	DL16bm
46	S54LS77W		TTL	1	27n	D	2.0*	.70Δ	4.0m	.40	0.0	5.0	65m		5	C	54-77W	FP39e
47	DM5475J		TTL	30n		D	2.0*	.80Δ	16m	.40	0.0	5.0	250m%		5	C	74-75N	DL16ai
48	DM5475W		TTL	30n		D	2.0*	.80Δ	16m	.40	0.0	5.0	250m%		5	C	54-75W	FP88a
49	DM7475N		TTL	30n		D	2.0*	.80Δ	16m	.40	0.0	5.0	250m%		0	7	74-75N	DL16bu
50	N74LS75F		TTL	30n		D	2.0*	.80Δ	8.0m	.50	0.0	5.0	60m	COMP COMP	0	7	74-75N	DL16aw
51	N74LS75N		TTL	30n		D	2.0*	.80Δ	8.0m	.50	0.0	5.0	60m	COMP COMP	0	7	74-75N	DL16bp
52	N74LS375F		TTL	30n		D	2.0*	.80Δ	8.0m	.50	0.0	5.0	60m	transpar	0	7	74LS375N	DL16aw
53	N74LS375N		TTL	30n		D	2.0*	.80Δ	8.0m	.50	0.0	5.0	60m	transpar	0	7	74LS375N	DL16bp
54	S54LS75F		TTL	30n		D	2.0*	.70Δ	4.0m	.40	0.0	5.0	60m	COMP	5	C	74-75N	DL16aw
55	S54LS75W		TTL	30n		D	2.0*	.70Δ	4.0m	.40	0.0	5.0	60m	COMP	5	C	54-75W	FP47g
56	S54LS375F		TTL	30n		D	2.0*	.70Δ	4.0m	.40	0.0	5.0	60m	nsparent	5	C	74LS375N	DL16aw
57	S54LS375W		TTL	30n		D	2.0*	.70Δ	4.0m	.40	0.0	5.0	60m	nsparent	5	C	54LS375W	FP47g
58	S5477W		TTL	30n		D	2.0*	.80Δ	16m	.40	0.0	5.0	230m		5	C	54-77W	FP39e
59	SN54LS75J		TTL	30n		D	2.0*	.70Δ	4.0m	.40	0.0	5.0	60m	COMPL COMPL	5	C	74-75N	DL16v
60	SN54LS75W		TTL	30n		D	2.0*	.70Δ	4.0m	.40	0.0	5.0	60m	COMPL COMPL	5	C	54-75W	MO004AG
61	SN54LS375J		TTL	30n		D	2.0*	.70Δ	4.0m	.40	0.0	5.0	60m%		5	C	L00-29	DL16v
62	SN54LS375W		TTL	30n		D	2.0*	.70Δ	4.0m	.40	0.0	5.0	60m		5	C	54LS375W	MO004AG
63	SN74LS75J		TTL	30n		D	2.0*	.80Δ	4.0m	.40	0.0	5.0	60m	COMPL COMPL	0	7	74-75N	DL16v
64	SN74LS75N		TTL	30n		D	2.0*	.80Δ	4.0m	.40	0.0	5.0	60m	COMPL COMPL	0	7	74-75N	DL16i
65	SN74LS375J		TTL	30n		D	2.0*	.80Δ	8.0m	.50	0.0	5.0	60m		0	7	74LS375N	DL16v
66	SN74LS375N		TTL	30n		D	2.0*	.80Δ	8.0m	.50	0.0	5.0	60m		2	7	74LS375N	DL16i
67#	M53275P		TTL	2	40n	D	2.0*	.80Δ	16m	.40	0.0	5.0	160m†		0	7	74-75N	DL16bb
68	N7475F		TTL	2	40n	D	2.0*	.80Δ	16m	.40	0.0	5.0	265m	transpar	0	7	74-75N	DL16aw
69	N7475N		TTL	2	40n	D	2.0*	.80Δ	16m	.40	0.0	5.0	265m	transpar	0	7	74-75N	DL16bp
70	S5475F		TTL	2	40n	D	2.0*	.80Δ	16m	.40	0.0	5.0	230m	transpar	5	C	74-75N	DL16aw
71	S5475W		TTL	2	40n	D	2.0*	.80Δ	16m	.40	0.0	5.0	230m	transpar	5	C	54-75W	FP47g
72#	SFC475E		TTL	2	40n	D	2.4*	.40Δ	16m	.40	0.0	5.0	265m	Compl	0	7	74-75N	DL16ch
73#	SFC475EM		TTL	2	40n	D	2.4*	.40Δ	16m	.40	0.0	5.0	230m	Compl	5	C	74-75N	DL16ch
74#	SFC475ET		TTL	2	40n	D	2.4*	.40Δ	16m	.40	0.0	5.0	265m	Compl	5	C	74-75N	DL16ch
75#	SFC475JM		TTL	2	40n	D	2.4*	.40Δ	16m	.40	0.0	5.0	230m	Compl	5	C	74-75	DL16ch
76#	SFC475KM		TTL	2	40n	D	2.4*	.40Δ	16m	.40	0.0	5.0	230m	Compl	5	C	74-75N	DL16ch
77	SN5475J		TTL	2	40n	D	2.0*	.80Δ	16m	.40	0.0	5.0	160m†	Di Clmp	5	C	74-75N	DL16v
78	SN5475W		TTL	2	40n	D	2.0*	.80Δ	16m	.40	0.0	5.0	160m†	Di Clmp	5	C	54-75W	MO004AG
79	SN5477W		TTL	2	40n	D	2.0*	.80Δ	16m	.40	0.0	5.0	160m†	Di Clmp	5	C	54-77W	MO004AA
80	SN7475J		TTL	2	40n	D	2.0*	.80Δ	16m	.40	0.0	5.0	160m†	Di Clmp	0	7	74-75N	DL16v
81	SN7475N		TTL	2	40n	D	2.0*	.80Δ	16m	.40	0.0	5.0	160m†	Di Clmp	0	7	74-75N	DL16i
82	JANM38510/01502BAA		TTL	2	44n	D	2.0	.80	16m	.40	0.0	5.5	253m		5			

26. LATCHES

IN ORDER OF:(1)TECHNOLOGY(2)BITS(3)PROPAGATION DELAY(4)TYPE CODE(5)TYPE NO.

LINE NO.	TYPE NO.	DATA SHT.	TECH	BITS	MAX PROP. DELAY (S)	TYPE CODE	LOGIC LEVEL		MINIMUM SINK CURRENT		POWER SUPPLY SPAN		MAX. OPER. POWER DISS. (W)	FEATURES	OPER. TEMP. RANGE CODE	CKTS PER MOD	LOGIC OR BLOCK	DRAWINGS OUTLINE
							MIN. (V)	MAX. (V)	(A)	@ V _o (V)	NEG. (V)	POS. (V)						
1	JANM38510/01501BFA		TTL	2	55n	D	2.0*	.80Δ	16m	.40	0.0	5.5	280m		5 C	2	54-75W	FP117
2	JANM38510/01501BFB		TTL	2	55n	D	2.0*	.80Δ	16m	.40	0.0	5.5	253m		5 C	2	54-75W	FP117
3	JANM38510/01501CEA		TTL	2	55n	D	2.0	.80	16m	.40	0.0	5.5	280m		5 C	2	74-75N	DL16br
4	JANM38510/01501CEB		TTL	2	55n	D	2.0	.80	16m	.40	0.0	5.5	280m		5 C	2	74-75N	DL16br
5	JANM38510/01501CFA		TTL	2	55n	D	2.0*	.80Δ	16m	.40	0.0	5.5	280m		5 C	2	54-75W	FP117
6	JANM38510/01501CFB		TTL	2	55n	D	2.0*	.80Δ	16m	.40	0.0	5.5	280m		5 C	2	54-75W	FP117
7	SN54L75J		TTL	2	80n	D	2.0*	.80Δ	8.0m	.40	0.0	5.0	80m†	Di Clmp	5 C	2	74-75N	DL16v
8	SN74L77W		TTL	2	80n	D	2.0*	.80Δ	8.0m	.40	0.0	5.0	80m†		0 7	2	54-77W	FP52e
9	SN54L77W		TTL	2	800	D	2.0*	.80Δ	8.0m	.40	0.0	5.0	80m†		0 7	2	54-77W	FP52e
10#	HD100130F		TTL	3	.75n	D	-1.1	-1.5			7.0	0	40m†		0 8	3	L00-79	FP2J
11	54LS373DM		TTL	3	30n	D	2.0*	.80Δ			0.0	5.0	200m	Comp	5 C	8	74LS363N	DL20n
12	54LS373FM		TTL	3	30n	D	2.0*	.80Δ			0.0	5.0	200m	Comp	5 C	8	54LS363W	FP144
13	54LS563DC		TTL	3	30n	D	2.0*	.80Δ			0.0	5.0	200m	Comp	0 7	8	74LS563	DL20n
14	54LS563DM		TTL	3	30n	D	2.0*	.80Δ			0.0	5.0	200m	Comp	5 C	8	74LS563N	DL20J
15	54LS563FM		TTL	3	30n	D	2.0*	.80Δ			0.0	5.0	200m	Comp	5 C	8	54LS563W	FP144
16	54LS563PC		TTL	3	30n	D	2.0*	.80Δ			0.0	5.0	200m	Comp	0 7	8	74LS563N	DL20c
17	74LS373DC		TTL	3	30n	D	2.0*	.80Δ			0.0	5.0	200m	Comp	0 7	8	74LS363N	DL20n
18	54LS533DM		TTL	3	35n	D	2.0*	.80Δ			0.0	5.0	200m	Comp	5 C	8	74LS533N	DL20n
19	54LS533FM		TTL	3	35n	D	2.0*	.80Δ			0.0	5.0	200m	Comp	5 C	8	54LS533W	FP144
20	54LS573DM		TTL	3	35n	D	2.0*	.80Δ			0.0	5.0	200m	Comp	5 C	8	74LS573N	DL20n
21	54LS573FM		TTL	3	35n	D	2.0*	.80Δ			0.0	5.0	200m	Comp	5 C	8	54LS573W	FP144
22	74LS533DC		TTL	3	35n	D	2.0*	.80Δ			0.0	5.0	200m	Comp	0 7	8	74LS533N	DL20n
23	74LS533PC		TTL	3	35n	D	2.0*	.80Δ			0.0	5.0	200m	Comp	0 7	8	74LS533N	DL20c
24	SN54AS873		TTL	4		D	2.0	.80			0.0	5.5		buf outp	5 C	2		
25	SN54AS874JT		TTL	4		D	2.0	0.8	48m	0.5	0.0	7.0			5 C	2	L0-132	DL24bf
26	SN54AS880		TTL	4		D	2.0	0.8			0.0	5.5		Invert	5 C	2		
27	SN54AS880JT #mil		TTL	4		D	2.0	0.8			0.0	5.5			5 C	2		
28	SN74AS873		TTL	4		D	2.0	0.8			0.0	7.0		buf outp	5 C	2		DL24bf
29	SN74AS873JT		TTL	4		D	2.0	0.8			0.0	5.5			0 7	2		
30	SN74AS873NT		TTL	4		D	2.0	0.8			0.0	7.0			0 7	2	L0-133	DL24bf
31	SN74AS874JT		TTL	4		D	2.0	0.8	48m	0.5	0.0	7.0			0 7	2	L0-133	DL24bg
32	SN74AS874NT		TTL	4		D	2.0	0.8	48m	0.5	0.0	7.0			0 7	2	L0-132	DL24bf
33	SN74AS880		TTL	4		D	2.0	0.8			0.0	5.5		Invert	0 7	2		
34	SN74AS880JT		TTL	4		D	2.0	0.8			0.0	7.0			5 C	2		DL24bf
35	SN74AS880NT		TTL	4		D	2.0	0.8			0.0	7.0			5 C	2		DL24bg
36	9308DC		TTL	4	12n	D	1.8*	.85Δ	14m	.45	0.0	5.0	585m	Engate	0 7	2	74-116N	DL24ag
37	9308DM		TTL	4	12n	D	1.7*	.90Δ	14m	.40	0.0	5.0	585m	Engate	5 C	2	74-116N	DL24ag
38	9308FM		TTL	4	12n	D	1.7*	.90Δ	14m	.40	0.0	5.0	585m	Engate	5 C	2	54-116W	FP66
39	9308PC		TTL	4	12n	D	1.8*	.85Δ	14m	.45	0.0	5.0	585m	Engate	0 7	2	74-116N	DL24ah
40	SN74ALS873JT		TTL	4	12n	D	2.0	0.8			0.0	7.0			0 7	4	L0-133	DL24bf
41	SN74ALS873NT		TTL	4	12n	D	2.0	0.8			0.0	7.0			0 7	4	L0-133	DL24bg
42	SN54ALS873JT #mil		TTL	4	15n	D	2.0	0.8			0.0	7.0			5 C	2		DL24bf
43#	HD74LS77		TTL	4	18n	D	2.0*	.80Δ	8.0m	.50	0.0	5.0	400m		2 7	4	L0-125	DL14cz
44#	HD74LS77P		TTL	4	18n	D	2.0*	.80Δ	8.0m	.50	0.0	5.0	400m	Plas Pkg	2 7	4	L0-125	DL14cz
45	9314DC		TTL	4	18n	D,R/	1.8*	.85Δ	14m	.45	0.0	5.0	300m	ultimode	0 7	1	L00-33	DL16cp
46	9314DM		TTL	4	18n	D,R/	1.7*	.90Δ	14m	.40	0.0	5.0	250m	ultimode	5 C	1	L00-33	DL16cp
47	9314FM		TTL	4	18n	D,R/	1.7*	.90Δ	14m	.40	0.0	5.0	250m	ultimode	5 C	1	L00-33	FP103
48	9314PC		TTL	4	18n	D,R/	1.8*	.85Δ	14m	.45	0.0	5.0	300m	ultimode	0 7	1	L00-33	*
49	SN74ALS880JT		TTL	4	20n	D	2.0	0.8			0.0	7.0			0 7	2		DL24bf
50	SN74ALS880NT		TTL	4	20n	D	2.0	0.8			0.0	7.0			0 7	2		DL24bg
51#	HD74LS75		TTL	4	22n	D	2.0*	.80Δ	8.0m	.50	0.0	5.0	400m	COMP	2 7	4	L0-124	DL16bc
52#	HD74LS75P		TTL	4	22n	D	2.0*	.80Δ	8.0m	.50	0.0	5.0	400m	COMP	2 7	4	L0-124	DL16bc
53	SN54ALS880JT #mil		TTL	4	23n	D	2.0	0.8			0.0	7.0			5 C	2		DL24bf
54#	HD74LS279		TTL	4	23n	D	2.0*	.80Δ	8.0m	.50	0.0	5.0	400m		2 7	4		DL16bc
55#	HD74LS279P		TTL	4	23n	R/S	2.0*	.80Δ	8.0m	.50	0.0	5.0	400m		2 7	4		DL16bc
56	N9314F		TTL	4	24n	D,R/	2.0*	.80Δ	16m		0.0	5.0	275m	transpar	0 7	1	L00-33	DL16aw
57	N9314N		TTL	4	24n	D,R/	2.0*	.80Δ	16m		0.0	5.0	275m	transpar	0 7	1	L00-33	DL16bp
58	S9314F		TTL	4	24n	D,R/	2.0*	.80Δ	16m		0.0	5.0	275m	transpar	5 C	1	L00-33	DL16aw
59	S9314W		TTL	4	24n	D,R/	2.0*	.80Δ	16m		0.0	5.0	275m	transpar	5 C	1	L00-33	FP47g
60#	HD74LS375		TTL	4	25n	D	2.0*	.80Δ	8.0m	.50	0.0	5.0	400m		2 7	4	L00-29	DL16bc
61#	HD74LS375P		TTL	4	25n	D	2.0*	.80Δ	8.0m	.50	0.0	5.0	400m		2 7	4	L00-29	DL16bc
62	DM54LS77W #mil		TTL	4	27n	D	2.0	0.8			0.0	7.0	35m		5 C	4	L00-2	FP97c
63	DM74LS75N		TTL	4	27n	D	2.0	0.8			0.0	7.0	32m		0 7	4	L00-2	DL16a
64	74279DC		TTL	4	27n	R/S	2.0*	.80Δ			0.0	5.0	150m	Comp	0 7	4		DL16cj
65	74279PC		TTL	4	27n	R/S	2.0*	.80Δ			0.0	5.0	150m	Comp	0 7	4	74-279N	*
66	54LS256DM		TTL	4	30n	D	2.0*	.70Δ	4.0m	.40	0.0	5.0	125m	addrbsle	5 C	2	74LS256N	DL16cj
67	54LS256FM		TTL	4	30n	D	2.0*	.70Δ	4.0m	.40	0.0	5.0	125m	addrbsle	5 C	2	54LS256W	FP103
68	74LS256DC		TTL	4	30n	D	2.0*	.80Δ	8.0m	.50	0.0	5.0	125m	addrbsle	0 7	2	74LS256N	DL16cj
69	74LS256PC		TTL	4	30n	D	2.0*	.80Δ	8.0m	.50	0.0	5.0	125m	addrbsle	0 7	2	L00-47	*
70	74LS375DC		TTL	4	30n	D	2.0*	.80Δ	4.0m	4.0	0.0	5.0	60m	Comp	0 7	3	74LS375N	DL16cj
71	74LS375PC		TTL	4	30n	D	2.0*	.80Δ	4.0m	4.0	0.0	5.0	60m	Comp	0 7	3	74LS375N	*
72	MC4037L		TTL	4	30n	D	2.4*	.40Δ	16m	.40	0.0	5.0	150m†		0 7	1	L00-23	TO116
73	MC4037P		TTL	4	30n	D	2.4*	.40Δ	16m	.40	0.0	5.0	150m†		0 7	1	L00-23	TO116
74	MC4337F		TTL	4	30n	D	2.4*	.40Δ	13m	.40	0.0	5.0	150m†		5 C	1	L00-23	TO86
75	N74100F		TTL	4	30n	D	2.0*	.80Δ	16m	.40	0.0	5.0	530m	transpar	0 7	2	74-100N	DL24aa
76	N74100N		TTL	4	30n	D	2.0*	.80Δ	16m	.40	0.0	5.0	530m	transpar	0 7	2	74-100N	DL24z
77	N74116F		TTL	4	30n	D	2.0*	.80Δ	16m	.40	0.0	5.0	500m	transpar	0 7	2	74-116N	DL24aa
78	N74116N		TTL	4	30n	D	2.0*	.80Δ	16m	.40	0.0	5.0	500m	transpar	0 7	2	74-116N	DL24z
79	S9308F		TTL	4	30n	D	2.0*	.80Δ	14m		0.0	5.0	500m	Engate	5 C	2	74-116N	DL24aa
80	S9308Q		TTL	4	30n	D	2.0*	.80Δ	14m		0.0	5.0	500m	Engate	5 C	2	54-116W	FP59c
81	S54100F		TTL	4	30n	D	2.0*	.80Δ	16m	.40	0.0	5.0	460m	nsparent	5 C	2	74-100N	DL24aa
82	S54100Q		TTL	4	30n	D	2.0*	.80Δ	16m	.40	0.0	5.0	460m		5 C	2	54-100W	FP59b
83	S54100W		TTL	4	30n	D	2.0*	.80Δ	16m	.40	0.0	5.0	460m	transpar	5 C	2	54-100W	FP59c
84	S54116F		TTL	4	30n	D	2.0*	.80Δ	16m	.40	0.0	5.0	500m</					

26. LATCHES

IN ORDER OF: (1) TECHNOLOGY (2) BITS (3) PROPAGATION DELAY (4) TYPE CODE (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	BITS	MAX. PROP. DELAY (S)	TYPE CODE	LOGIC LEVEL		MINIMUM SINK CURRENT		POWER SUPPLY SPAN		MAX. OPER. POWER DISS. (W)	FEATURES	OPER. TEMP. RANGE CODE	CKTS PER MOD	LOGIC OR BLOCK	DRAWINGS OUTLINE
							MIN. '1' (V)	MAX. '0' (V)	(A)	@ V _o (V)	NEG. (V)	POS. (V)						
1	5475FM		TTL	4	35n	D	2.0*	.80Δ			0.0	5.0	250m	Comp	5	1	54-75W	FP52
2	5477FM		TTL	4	35n	D	2.0*	.80Δ			0.0	5.0	250m	Comp	5	1	54-77W	FP52
3	7475DC		TTL	4	35n	D	2.0*	.80Δ			0.0	5.0	250m	Comp	0	7	74-75N	DL14bf
4	7475PC		TTL	4	35n	D	2.0*	.80Δ			0.0	5.0	250m	Comp	0	7		DLZ
5	N9308F		TTL	4	35n	D	2.0*	.80Δ	14m		0.0	5.0	500m	Engate	0	7	74-116N	DL24aa
6	N9308N		TTL	4	35n	D	2.0*	.80Δ	14m		0.0	5.0	500m	Engate	0	7	74-116N	DL24z
7	N74LS256F		TTL	4	38n	D	2.0*	.80Δ	8.0m	.50	0.0	5.0	180m	ADDR	0	7	74LS256N	DL16aw
8	N74LS256N		TTL	4	38n	D	2.0*	.80Δ	8.0m	.50	0.0	5.0	180m	ADDR	0	7	74LS256N	DL16bp
9	S54LS256F		TTL	4	38n	D	2.0*	.70Δ	4.0m	.40	0.0	5.0	180m	ADDR	5	C	74LS256N	DL16aw
10	S54LS256W		TTL	4	38n	D	2.0*	.70Δ	4.0m	.40	0.0	5.0	180m	ADDR	5	C	54LS256W	FP47g
11	93L14DC		TTL	4	45n	D,R/	1.8*	.85Δ	14m	.45	0.0	5.0	50m†	Multim	0	7	L00-33	DL16cp
12	93L14DM		TTL	4	45n	D,R/	1.7*	.90Δ	14m	.40	0.0	5.0	50m†	Multim	5	C	L00-33	DL16cp
13	93L14FM		TTL	4	45n	D,R/	1.7*	.90Δ	14m	.40	0.0	5.0	50m†	Multim	5	C	L00-33	FP103
14	93L14PC		TTL	4	45n	D,R/	1.8*	.85Δ	14m	.45	0.0	5.0	50m†	Multim	0	7	L00-33	*
15	MC4035L		TTL	4	50n	D	2.4*	.40Δ	11m	.40	0.0	5.0	140m†	opn coll	0	7	L00-22	TO116
16	MC4035F		TTL	4	50n	D	2.4*	.40Δ	11m	.40	0.0	5.0	140m†	opn coll	0	7	L00-22	TO116
17	MC4335F		TTL	4	50n	D	2.4*	.40Δ	9.3m	.40	0.0	5.0	140m†	opn coll	5	C	L00-22	TO86
18	MC4335L		TTL	4	50n	D	2.4*	.40Δ	9.3m	.40	0.0	5.0	140m†	opn coll	5	C	L00-22	TO116
19	JANM38510/01504BEA		TTL	4	60n	D,R/	2.0*	.80Δ	16m	.40	0.0	5.5	325m		5	C	L00-65	DL16br
20	JANM38510/01504BEB		TTL	4	60n	D,R/	2.0*	.80Δ	16m	.40	0.0	5.5	325m		5	C	L00-65	DL16br
21	JANM38510/01504BFA		TTL	4	60n	D,R/	2.0*	.80Δ	16m	.40	0.0	5.5	325m		5	C	L00-65	FP117
22	JANM38510/01504BFB		TTL	4	60n	D,R/	2.0*	.80Δ	16m	.40	0.0	5.5	325m		5	C	L00-65	FP117
23	JANM38510/01504CEA		TTL	4	60n	D,R/	2.0*	.80Δ	16m	.40	0.0	5.5	325m		5	C	L00-65	DL16br
24	JANM38510/01504CEB		TTL	4	60n	D,R/	2.0*	.80Δ	16m	.40	0.0	5.5	325m		5	C	L00-65	DL16br
25	JANM38510/01504CFA		TTL	4	60n	D,R/	2.0*	.80Δ	16m	.40	0.0	5.5	325m		5	C	L00-65	FP117
26	JANM38510/01504CFB		TTL	4	60n	D,R/	2.0*	.80Δ	16m	.40	0.0	5.5	325m		5	C	L00-65	FP117
27	DM54L75AJ#mil		TTL	4	100n	D	2.0	0.7			0	8.0	17m		5	C	L00-2	FP98b
28	DM54L75AW#mil		TTL	4	100n	D	2.0	0.7			0	8.0	17m		5	C	L00-2	FP98b
29	MC682P		TTL	4	300n	D	12.5*	1.5Δ	12m	1.5	0.0	15	375m†	COMPL	3	7	L00-20	DL16aj
30	MC682Z		TTL	4	300n	D	12.5*	1.5Δ	12m	1.5	0.0	15	375m†	COMPL	3	7	L00-20	DL16aj
31#	M74LS256P		TTL	4	30m	D	2.0*	.80Δ	8.0m	.50	0.0	5.0	125m	addr'sble	2	7	L00-47	DL14cf
32#	N8T3404F		TTL	6	6.0n	D	2.0	0.8	10m	.45	0.0	5.0			0	7	L00-79	DL16e
33#	N8T3404N		TTL	6	6.0n	D	2.0	0.8	10m	.45	0.0	5.0			0	7	L00-73	DL16aw
34	D9404		TTL	6	12n	D	2.0*	.85Δ	10m	.45	0.0	5.0	375m	4-2 bit	0	7	L00-73	DL16dz
35	P3404		TTL	6	12n	D	2.0*	.85Δ	10m	.45	0.0	5.0	375m	4-2 bit	0	7	L00-73	DL16by
36	8T3404FZJ		TTL	6	17n	D	2.0	0.8	10m	0.8	0.0	5.0	393m	Hi-Speed	0	7	L00-73	DL16bp
37	8T3404N		TTL	6	17n	D	2.0	0.8	10m	0.8	0.0	5.0	393m	Hi-Speed	0	7	L00-73	DL16bp
38	SN54LS605J		TTL	8		D	2.0*	.80Δ	12m	.40	0.0	5.0		2 inpMUX	5	C	74LS605	DLZ
39	SN54LS607J		TTL	8		D	2.0*	.80Δ	12m	.40	0.0	5.0		2 inpMUX	5	C	74LS607	DLZ
40	SN74LS605J		TTL	8		D	2.0*	.80Δ	24m	.50	0.0	5.0		2 inpMUX	0	7	74LS605	DLZ
41	SN74LS605N		TTL	8		D	2.0*	.80Δ	24m	.50	0.0	5.0		2 inpMUX	0	7	74LS605	DL28i
42	SN74LS607J		TTL	8		D	2.0*	.80Δ	24m	.50	0.0	5.0		inp MUX	0	7	74LS607	DLZ
43	SN74LS607N		TTL	8		D	2.0*	.80Δ	24m	.50	0.0	5.0		inp MUX	0	7	74LS607	DL28i
44	54F373DM		TTL	8	4.3n	D	2.0*	.80Δ			0.0	5.0		3 State	5	C	74LS363N	DL20n
45	54F373FM		TTL	8	4.3n	D	2.0*	.80Δ			0.0	5.0		3 State	5	C	54LS363W	FP144
46	74F373DC		TTL	8	4.3n	D	2.0*	.80Δ			0.0	5.0		3 State	5	C	74LS363N	DL20n
47	74F373PC		TTL	8	4.3n	D	2.0*	.80Δ			0.0	5.0		3 State	0	7	74LS363N	DL20c
48#	N74F533F		TTL	8	9.0n	T	2.0	0.8			-0.5	7.0			0	7	L0-141	DL20ac
49#	N74F533N		TTL	8	9.0n	T	2.0	0.8			-0.5	7.0			0	7	L0-141	DL20ab
50#	S54F533F		TTL	8	9.0n	T	2.0	0.8			-0.5	7.0			5	C	L0-141	DL20ac
51#	S54F533N		TTL	8	9.0n	T	2.0	0.8			-0.5	7.0			5	C	L0-141	FP154
52	DM54S373J#mil		TTL	8	9.0n	D	2.0	0.8			0	7.0		nsparent	5	C	L00-61	DL20u
53	DM54S373W#mil		TTL	8	9.0n	D	2.0	0.8			0	7.0		nsparent	5	C	L00-61	DL20u
54	DM74S373N		TTL	8	9.0n	D	2.0	0.8			0	7.0		nsparent	0	7	L00-61	DL20s
55	54F533DM		TTL	8	9.2n	T	2.0*	.80Δ			0.0	5.0		COMP	5	C	74LS533N	DL20n
56	54F533FM		TTL	8	9.2n	T	2.0*	.80Δ			0.0	5.0		COMP	5	C	54LS533W	FP144
57	74F533DC		TTL	8	9.2n	T	2.0*	.80Δ			0.0	5.0		COMP	0	7	74LS533N	DL20n
58	74F533PC		TTL	8	9.2n	T	2.0*	.80Δ			0.0	5.0		COMP	0	7	74LS533N	DL20c
59	MC74F533J(A)		TTL	8	10n	T	2.0	0.8	20m	0.5	0.0	5.0			0	7	74LS533	DL20q
60	MC74F533N(A)		TTL	8	10n	T	2.0	0.8	20m	0.5	0.0	5.0			0	7	74LS533	DL20h
61	N8T805F		TTL	8	10n	T	2.0*	.8Δ	20m		0.0	5.0			0	7	L00-69	DL20Z
62	N8T805N		TTL	8	10n	T	2.0*	.8Δ	20m		0.0	5.0			0	7	L00-69	DL20Z
63	N8T807F		TTL	8	10n	T	2.0*	.8Δ	20m		0.0	5.0			0	7	L00-69a	DL20Z
64	N8T807N		TTL	8	10n	T	2.0*	.8Δ	20m		0.0	5.0			0	7	L00-69a	DL20Z
65	N8T809F		TTL	8	10n	T	2.0*	.8Δ	20m		0.0	5.0			0	7	L00-69a	DL20Z
66	N8T809N		TTL	8	10n	T	2.0*	.8Δ	20m		0.0	5.0			0	7	L00-69a	DL20Z
67	S8T805F		TTL	8	10n	T	2.0*	.8Δ	20m		0.0	5.0			5	C	L00-69	DL20Z
68	S8T807F		TTL	8	10n	T	2.0*	.8Δ	20m		0.0	5.0			5	C	L00-69a	DL20Z
69	S8T809F		TTL	8	10n	T	2.0*	.8Δ	20m		0.0	5.0			5	C	L00-69a	DL20Z
70	S54S373F		TTL	8	10n	T	2.0*	.8Δ	20m		0.0	5.0			5	C	74LS573	DL20Z
71#	N74F373F		TTL	8	11n	T	2.0	0.8			-0.5	7.0			0	7	L0-140	DL20ac
72#	N74F373N		TTL	8	11n	T	2.0	0.8			-0.5	7.0			0	7	L0-140	DL20ab
73#	S54F373F		TTL	8	11n	T	2.0	0.8			-0.5	7.0			5	C	L0-140	DL20ac
74	AMZ8173		TTL	8	11n	DT	2.0*	.80Δ			0.0	5.0		Ninv In	0	7	L0-111a	DLZ
75#	N74S373F		TTL	8	12n	D	2.0	0.8	20m	0.5	0.0	5.0		Transpnt	0	7	74LS363	DL20i
76#	N74S373N		TTL	8	12n	D	2.0	0.8	20m	0.5	0.0	5.0		Transpnt	0	7	74LS363	DL20i
77	SN74ALS573J		TTL	8	12n	D	2.0	0.8			0	7.0		nsparent	0	7	74LS573N	DL20t
78	SN74ALS573N		TTL	8	12n	D	2.0	0.8			0	7.0		nsparent	0	7	74LS573N	DL20s
79	MC54F533J(A)		TTL	8	12n	T	2.0	0.8	20m	0.5	0.0	5.0			5	C	74LS533	DL20q
80	MC54F533N(A)		TTL	8	12n	T	2.0	0.8	20m	0.5	0.0	5.0			5	C	74LS533	DL20q
81	57S373J		TTL	8	13n	D	2.0*	.70Δ	32m	.50	0.0	5.0	800m	non-inv	5	C	74LS363N	DL20d
82	57S380J		TTL	8	13n	D	2.0*	.70Δ	20m	.50	0.0	5.0	800m	Invert	5	C	74LS533N	DL20d
83	57S382J		TTL	8	13n	D	2.0*	.70Δ	32m	.50	0.0	5.0	800m	Invert	5	C	74LS533N	DL20d
84	67S373J		TTL	8	13n	D	2.0*	.70Δ	32m	.50	0.0	5.0	800m	non-inv	0	7	74LS363N	DL20d
85	67S380J		TTL	8	13n	D												

26. LATCHES

IN ORDER OF: (1) TECHNOLOGY (2) BITS (3) PROPAGATION DELAY (4) TYPE CODE (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	BITS	MAX. PROP. DELAY (S)	TYPE CODE	LOGIC LEVEL		MINIMUM SINK CURRENT		POWER SUPPLY SPAN		MAX. OPER. POWER DISS. (W)	FEATURES	OPER. TEMP. RANGE CODE	CKTS PER MOD	LOGIC OR BLOCK	DRAWINGS OUTLINE	
							MIN. '1' (V)	MAX. '0' (V)	(A)	@ V _o (V)	NEG. (V)	POS. (V)							
1	SN74ALS580N		TTL	8	18n	D	2.0	0.8			0	7.0		nsparent	5	8	74AS580	DL20s	
2	SN74AS373J		TTL	8	18n	D	2.0*	.70Δ	20m	.50	0.0	5.0	700m	ferred In	0	7	74LS363N	DL20a	
3	SN74AS373N		TTL	8	18n	D	2.0*	.80Δ	20m	.50	0.0	5.0	700m		0	7	1.00-61		
4	SN74AS533J		TTL	8	18n	D	2.0*	0.8Δ	12m	0.4	0.0	5.0		Inv Out	0	7	8	L0-126	DL20Z
5	SN74AS533N		TTL	8	18n	D	2.0*	0.8Δ	12m	0.4	0.0	5.0		Inv Out	0	7	8	74LS533	DL20Z
6	SN74AS535J		TTL	8	18n	D	2.0*	0.8Δ	32m	0.5	0.0	5.0		Inv Out	0	7	8	L0-126	DL20Z
7	SN74AS535N		TTL	8	18n	D	2.0*	0.8Δ	32m	0.5	0.0	5.0		Inv Out	0	7	8	L0-126	DL20Z
8	SN54LS259J		TTL	8	20n	D	2.0*	.70Δ	4.0m	.40	0.0	5.0	180m%	ADDR	5	C	1	74-259N	DL16v
9	SN54LS259W		TTL	8	20n	D	2.0*	.70Δ	4.0m	.40	0.0	5.0	180m%	ADDR	5	C	1	54-259W	MO004AG
10	SN54LS604J		TTL	8	20n	D	2.0*	.80Δ	12m	.40	0.0	5.0	275m%	-Inp MUX	5	C	2	74LS604	DLZ
11	SN54LS606J		TTL	8	20n	D	2.0*	.80Δ	12m	.40	0.0	5.0	275m%	-Inp MUX	5	C	2	74LS606	DLZ
12	SN74LS259J		TTL	8	20n	D	2.0*	.80Δ	8.0m	.50	0.0	5.0	180m%	ADDR	0	7	1	74-259N	DL16v
13	SN74LS259N		TTL	8	20n	D	2.0*	.80Δ	8.0m	.50	0.0	5.0	180m%	ADDR	0	7	1	74-259N	DL16i
14	SN74LS604J		TTL	8	20n	D	2.0*	.80Δ	24m	.50	0.0	5.0	275m%	2inp MUX	0	7	2	74LS604	DLZ
15	SN74LS604N		TTL	8	20n	D	2.0*	.80Δ	24m	.50	0.0	5.0	275m%	2inp MUX	0	7	2	74LS604	DL28i
16	SN74LS606J		TTL	8	20n	D	2.0*	.80Δ	24m	.50	0.0	5.0	275m%	2inp MUX	0	7	2	74LS606	DLZ
17	SN74LS606N		TTL	8	20n	D	2.0*	.80Δ	24m	.50	0.0	5.0	275m%	2inp MUX	0	7	2	74LS606	DL28i
18	SN54ALS580J#mil		TTL	8	21n	D	2.0	0.8			0	7.0		nsparent	5	C	8	L0-120	DL20t
19	SN74LS533J		TTL	8	25n	D	2.0*	0.7Δ	12m	0.4	0.0	5.0		Inv Out	5	C	8	74LS533	DL20Z
20	SN74LS533N		TTL	8	25n	D	2.0*	0.8Δ	12m	0.4	0.0	5.0		Inv Out	0	7	8	74LS533	DL20Z
21	SN74LS533N		TTL	8	25n	D	2.0*	0.8Δ	12m	0.4	0.0	5.0		Inv Out	0	7	8	74LS533	DL20Z
22	SN74S412J		TTL	8	27n	D	2.0*	.85Δ	20m	.50	0.0	5.0	650m	ultimode	0	7	1	74S412N	MO015AA
23	SN74S412N		TTL	8	27n	D	2.0*	.85Δ	20m	.50	0.0	5.0	650m	ultimode	0	7	1	74S412N	DL24e
24	MC3482BL		TTL	8	27n	T	2.0*	0.8Δ	48m	0.5	0.0	5.0		transpar	0	7	8	L0-128	DL20q
25	MC6882BL		TTL	8	27n	T	2.0*	0.8Δ	48m	0.5	0.0	5.0		transpar	0	7	8	L0-128	DL20q
26	57LS376J		TTL	8	28n	D	2.0*	.80Δ	12m	.40	0.0	5.0	500m%	buff Inp	5	C	1	1.00-61	DLZ
27	57S374J		TTL	8	28n	D	2.0*	.80Δ	12m	.40	0.0	5.0	200m%	buff Inp	5	C	1	74LS364N	DLZ
28	57S376J		TTL	8	28n	D	2.0*	.80Δ	12m	.40	0.0	5.0	500m%	buff Inp	5	C	1	74LS534N	DLZ
29	57S378J		TTL	8	28n	D	2.0*	.80Δ	12m	.40	0.0	5.0	500m%	buff Inp	5	C	1	74LS534N	DLZ
30	67LS376J		TTL	8	28n	D	2.0*	.70Δ	12m	.40	0.0	5.0	200m%	buff Inp	0	7	1	74LS534N	DLZ
31	67S374J		TTL	8	28n	D	2.0*	.70Δ	12m	.40	0.0	5.0	200m%	buff Inp	0	7	1	74LS364N	DLZ
32	67S376J		TTL	8	28n	D	2.0*	.70Δ	12m	.40	0.0	5.0	200m%	buff Inp	0	7	1	74LS364N	DLZ
33	67S378J		TTL	8	28n	D	2.0*	.70Δ	12m	.40	0.0	5.0	200m%	buff Inp	0	7	1	74LS364N	DLZ
34	9334DC		TTL	8	28n	D	2.0*	.80Δ			0.0	5.0	280m†	addrble	0	7	1	74-259N	DL16cp
35	9334DM		TTL	8	28n	D	2.0*	.80Δ			0.0	5.0	280m†	addrble	5	C	1	74-259N	DL16cp
36	9334FM		TTL	8	28n	D	2.0*	.80Δ			0.0	5.0	280m†	addrble	5	C	1	54-259W	FP103
37	9334PC		TTL	8	28n	D	2.0*	.80Δ			0.0	5.0	280m†	addrble	0	7	1	74-259N	*
38	DM54LS374J#mil		TTL	8	28n	D	2.0	0.8			0	7.0		nsparent	5	C	8	L00-60	DL20u
39	DM54LS374W#mil		TTL	8	28n	D	2.0	0.8			0	7.0		nsparent	5	C	8	L00-60	DL20u
40	DM74LS374N		TTL	8	28n	D	2.0	0.8			0	7.0		nsparent	0	7	4	L00-60	DL20s
41	DM54259J#mil		TTL	8	28n	D	2.0	0.8			0	7.0	35m	ressable	5	C	1	L00-35	DL16au
42	DM54259W#mil		TTL	8	28n	D	2.0	0.8			0	7.0		ressable	5	C	1	L00-35	FP97c
43	DM74259N		TTL	8	28n	D	2.0	0.8			0	7.0		ressable	0	7	1	L00-35	DL16a
44	SN54LS374J		TTL	8	28n	D	2.0*	.80Δ	12m	.40	0.0	5.0	200m%	buff Inp	5	C	1	74LS364N	DLZ
45	SN54S374J		TTL	8	28n	D	2.0*	.80Δ	12m	.40	0.0	5.0	200m%	buff Inp	5	C	1	74LS364N	DLZ
46	SN74LS374J		TTL	8	28n	D	2.0*	.70Δ	12m	.40	0.0	5.0	200m%	buff Inp	0	7	1	74LS364N	DLZ
47	SN74S374J		TTL	8	28n	D	2.0*	.70Δ	12m	.40	0.0	5.0	200m%	buff Inp	0	7	1	74LS364N	DLZ
48	SN54259J		TTL	8	28n	D	2.0*	.80Δ	16m	.40	0.0	5.0	450m	ADDR	5	C	1	74-259N	DL16v
49	SN54259W		TTL	8	28n	D	2.0*	.80Δ	16m	.40	0.0	5.0	450m	ADDR	5	C	1	54-259W	MO004AG
50	SN74259J		TTL	8	28n	D	2.0*	.80Δ	16m	.40	0.0	5.0	450m	ADDR	0	7	1	74-259N	DL16v
51	SN74259N		TTL	8	28n	D	2.0*	.80Δ	16m	.40	0.0	5.0	450m	ADDR	0	7	1	74-259N	DL16i
52	MC3482AL		TTL	8	28n	T	2.0*	0.8Δ	48m	0.5	0.0	5.0		nsparent	0	7	8	L0-127	DL20q
53	MC6882AL		TTL	8	28n	T	2.0*	0.8Δ	48m	0.5	0.0	5.0		nsparent	0	7	8	L0-127	DL20q
54	54LS259DM		TTL	8	30n	D	2.0*	.70Δ	4.0m	.40	0.0	5.0	180m	addrble	5	C	1	74-259N	DL16cj
55	54LS259FM		TTL	8	30n	D	2.0*	.70Δ	4.0m	.40	0.0	5.0	180m	addrble	5	C	1	54-259W	FP103
56	74LS259DC		TTL	8	30n	D	2.0*	.80Δ	8.0m	.50	0.0	5.0	180m	addrble	0	7	1	74-259N	DL16cj
57	74LS259PC		TTL	8	30n	D	2.0*	.80Δ	8.0m	.50	0.0	5.0	180m	addrble	0	7	1	74-259N	*
58#	HD74LS259P		TTL	8	32n	D	2.0*	.80Δ	8.0m	.50	0.0	5.0	400m	ADDR	2	7	8		DL16bc
59	N74LS363F		TTL	8	32n	D	2.0*	.80Δ	24m	.50	0.0	5.0	350m	transpar	0	7	1	74LS363N	DL20j
60	N74LS363N		TTL	8	32n	D	2.0*	.80Δ	24m	.50	0.0	5.0	350m	transpar	0	7	1	74LS363N	DL20i
61	S54LS363F		TTL	8	32n	D	2.0*	.70Δ	12m	.40	0.0	5.0	350m	transpar	5	C	1	74LS363N	DL20j
62	AM9334DC		TTL	8	35n	D	2.0*	.80Δ	9.6m	.40	0.0	5.0	430m	Addrble	0	7	1	74-259N	DL16cd
63	AM9334DM		TTL	8	35n	D	2.0*	.80Δ	9.6m	.40	0.0	5.0	430m	Addrble	5	C	1	74-259N	DL16cd
64	AM9334FM		TTL	8	35n	D	2.0*	.80Δ	9.6m	.40	0.0	5.0	430m	Addrble	5	C	1	54-259W	FP79b
65	AM9334PC		TTL	8	35n	D	2.0*	.80Δ	9.6m	.40	0.0	5.0	430m	Addrble	0	7	1	74-259N	DL16ce
66	DM8334J		TTL	8	35n	D	2.0*	.80Δ	16m	.40	0.0	5.0	430m%	Addrble	0	7	1	74-259N	DL16ai
67	DM8334N		TTL	8	35n	D	2.0*	.80Δ	16m	.40	0.0	5.0	430m%	Addrble	0	7	1	74-259N	DL16bu
68	DM8334W		TTL	8	35n	D	2.0*	.80Δ	16m	.40	0.0	5.0	430m%	Addrble	0	7	1	54-259W	FP88b
69	DM9334J		TTL	8	35n	D	2.0*	.80Δ	16m	.40	0.0	5.0	490m	Addrble	5	C	1	74-259N	DL16ai
70	DM9334W		TTL	8	35n	D	2.0*	.80Δ	16m	.40	0.0	5.0	490m	Addrble	5	C	1	54-259W	FP88b
71	N9334F		TTL	8	35n	D	2.0*	.80Δ	9.6m	.40	0.0	5.0	430m	addrble	0	7	1	74-259N	DL16aw
72	N9334N		TTL	8	35n	D	2.0*	.80Δ	9.6m	.40	0.0	5.0	430m	addrble	0	7	1	74-259N	DL16bp
73	S9334F		TTL	8	35n	D	2.0*	.80Δ	9.6m	.40	0.0	5.0	430m	addrble	5	C	1	74-259N	DL16aw
74	S9334W		TTL	8	35n	D	2.0*	.80Δ	9.6m	.40	0.0	5.0	430m	addrble	5	C	1	54-259W	FP47g
75	74LS373PC		TTL	8	36n	D	2.0*	.80Δ	8.0m	.50	0.0	5.0	200m	nsparent	0	7	1	74LS363N	DL20c
76	AM25LS373DC		TTL	8	36n	D	2.0*	.70Δ	24m	.50	0.0	5.0	210m	non-inv	0	7	1	74LS363N	DL20k
77	AM25LS373DM		TTL	8	36n	D	2.0*	.70Δ	24m	.50	0.0	5.0	220m	non-inv	5	C	1	74LS363N	DL20k
78	AM25LS373FM		TTL	8	36n	D	2.0*	.70Δ	24m	.50	0.0	5.0	220m	non-inv	5	C	1	54LS363W	FP143
79	AM25LS373PC		TTL	8	36n	D	2.0*	.70Δ	24m	.50	0.0	5.0	2						

26. LATCHES

IN ORDER OF (1) TECHNOLOGY (2) BITS (3) PROPAGATION DELAY (4) TYPE CODE (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	BITS	MAX. PROP. DELAY (S)	TYPE CODE	LOGIC LEVEL		MINIMUM SINK CURRENT			POWER SUPPLY SPAN		MAX. OPER. POWER DISS. (W)	FEATURES	OPER. TEMP. RANGE CODE		CKTS PER MOD	DRAWINGS	
							MIN. '1' (V)	MAX. '0' (V)	(A)	@ V _o (V)	NEG. (V)	POS. (V)	-			+	LOGIC OR BLOCK		OUTLINE	
1	DM8553J		TTL	8	38n	R/S	2.0*	.80Δ	16m	.40	0.0	5.0	330m†		0	7	1	75-53N	DL16al	
2	DM8553N		TTL	8	38n	R/S	2.0*	.80Δ	16m	.40	0.0	5.0	330m†		0	7	1	75-53N	DL16bu	
3	DM8553W		TTL	8	38n	R/S	2.0*	.80Δ	16m	.40	0.0	5.0	330m†		0	7	1	75-53N	FP88a	
4	9334DM#		TTL	8	40n	D	2.0*	.80Δ			0.0	5.0	280m†	addrstable	5	C	1	74-259N	DL16cj	
5	9334FM#		TTL	8	40n	D	2.0*	.80Δ			0.0	5.0	280m†	addrstable	5	C	1	54-259W	FP93c	
6	N74LS373D		TTL	8	40n	D	2.0*	0.8Δ	24m	0.5	0.0	5.0	200m	Transpar	0	7	1	74LS363N	DL20j	
7	N74LS373N		TTL	8	40n	D	2.0*	.80Δ	24m	.50	0.0	5.0	200m	transpar	0	7	1	74LS363N	DL20i	
8	S54LS373F		TTL	8	40n	D	2.0*	.70Δ	12m	.40	0.0	5.0	200m	transpar	5	C	1	74LS363N	DL20j	
9	AM93L34DC		TTL	8	65n	D	2.0*	.70Δ	4.8m	.30	0.0	5.0	120m	Addrstable	0	7	1	74-259N	DL16cd	
10	AM93L34DM		TTL	8	65n	D	2.0*	.70Δ	4.8m	.30	0.0	5.0	126m	Addrstable	5	C	1	74-259N	DL16cd	
11	AM93L34FM		TTL	8	65n	D	2.0*	.70Δ	4.8m	.30	0.0	5.0	126m	Addrstable	5	C	1	54-259W	FP79b	
12	AM93L34PC		TTL	8	65n	D	2.0*	.70Δ	4.8m	.30	0.0	5.0	120m	Addrstable	0	7	1	74-259N	DL16ce	
13	Am25LS373XC#ai		TTL	8	30	D	2.0*	0.8Δ	24m	0.5	0.5	7.0	210m	Invertg	0	7	8	L00-61a	CH133	
14	Am25LS533XC#ai		TTL	8	30	D	2.0*	0.8Δ	24m	0.5	0.5	7.0	210m	non-inv	0	7	8	L00-61	CH133	
15	Am54LS373X#ai		TTL	8	30	D	2.0*	0.7Δ	12m	0.4	0.5	7.0	210m	nverting	5	C	8	L00-61a	CH133	
16	Am54LS533X#ai		TTL	8	30	D	2.0*	0.7Δ	12m	0.4	0.5	7.0	210m	non-inv	5	C	8	L00-61	CH133	
17	Am74LS373X#ai		TTL	8	30	D	2.0*	0.8Δ	24m	0.5	0.5	7.0	210m	Invertg	0	7	8	L00-61a	CH133	
18	Am74LS533X#ai		TTL	8	30	D	2.0*	0.8Δ	24m	0.5	0.5	7.0	210m	non-inv	0	7	8	L00-61	CH133	
19	Am25LS373XM#ai		TTL	8	37	D	2.0*	0.7Δ	24m	0.5	0.5	7.0	210m	Invertg	5	C	8	L00-61a	CH133	
20	Am25LS533XM#ai		TTL	8	40	D	2.0*	0.7Δ	24m	0.5	0.5	7.0	210m	n-invert	5	C	8	L00-61	CH133	
21	HD74LS259		TTL	8	327	D	2.0*	.80Δ	8.0m	.50	0.0	5.0	400m	ADDR	2	7	8		DL16bc	
22	Am29843		TTL	9	15n	DT	2.0	0.8	32m	0.5	0.0	5.0		Non-inv	5	C	1	L0-138	DL24j	
23	Am29844		TTL	9	15n	DT	2.0	0.8	32m	0.5	0.0	5.0		Invert	5	C	1	L0-138	DL24j	
24	Am29841		TTL	10	15n	DT	2.0	0.8	32m	0.5	0.0	5.0		Non-inv	5	C	1	L0-137	DL24j	
25	Am29842		TTL	10	15n	DT	2.0	0.8	32m	0.5	0.0	5.0		Invertz§	5	C	1	L0-137	DL24j	

27. SPECIAL DEVICES

IN ORDER OF:(1)TYPE CODE(2)TECHNOLOGY
(3)TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TYPE CODE	TECH	MAX. FREQ. (Hz)	LOGIC LEVEL		POWER SUPPLY SPAN		MAX. OPER. POWER DISS (W)	OPER. TEMP. RANGE CODE	GENERAL DESCRIPTION	DRAWINGS	
						MIN. '1' (V)	MAX. '0' (V)	NEG. (V)	POS. (V)				LOGIC OR BLOCK	OUTLINE
1	HD1-15531-2#mil													
2#	ESM381		1	MON		17*	12Δ	0.0	32	900m	2 7	Phase Cell, tpd 5.5ms At Vcc48v	K01-3	TO116
3	TDC1004J9C		1	MON	25M	2.0*§	0.8Δ	0.0	6.0	325m†	0 7	64-Bit Digital Correlator	K01-4	DL16cq
4	TDC1004J9F		1	MON	15M	2.0*§	0.8Δ	0.0	5.0	325m†	5 C	64-Bit Digital Correlator	K01-4	DL16cc
5	TDC1023J7C		1	MON	201M	2.0*§	0.8Δ	0.0	5.0	900m†	0 7	64-Bit Digital Output Correlator	K01-5	DL24ap
6	TDC1023J7F		1	MON	201M	2.0*§	0.8Δ	0.0	5.0	900m†	5 C	64-Bit Digital Output Correlator	K01-5	DL24ap
7#	HXA100156D#ai		1	MOS		-1.8	-0.88	4.5	0	689m	0 8	MASK-MERGE SELECTOR	K01-6	DLZ
8#	HXA100156F#ai		1	MOS		-1.8	-0.88	4.5	0	689m	0 8	MASK-MERGE SELECTOR	K01-6	FPZ
9	MM4015		1	MOS	1.0M\$	-4.0*	-2.0*	25	0.0	400m	5 C	60 Plus 4 Bit Accum/Regis	K01-2	DL16n
10	MM5015		1	MOS	1.0M\$	-4.0*	-2.0*	25	0.0	400m	2 7	60 Plus 4 Bit Accum/Regis	K01-2	DL16n
11	2920-18		11	MOS	10k	2.0*	-0.8Δ	5.0	5.0	1.5	0 7	PROCESSOR,Signal,Tcyc(Inst)800n	K11-1	DLZ
12	MC8503L		2	BIP	3.5M	2.4	0.5	0.0	5.0	400m	0 7	Universal Polynomial Generator	K02-43	DL14ci
13#	MC8506L		2	BIP	2.8MT	2.4*	0.5Δ	0.5	7.0	585m†	0 7	Polynomial Generator	K02-45	DL16m
14#	MC8506P		2	BIP	2.8MT	2.4*	0.5Δ	0.5	7.0	585m†	0 7	Polynomial Generator	K02-45	DL16i
15	9650-1DC		2	MON		2.0*	-0.8Δ	16	5.5	730m	0 7	4 Bit Curr Source;Lin ±0.1% FSI	K02-5	DL16ad
16	9650-1DM		2	MON		2.0*	-0.7Δ	16	5.5	730m	5 C	4-Bit Current Source;Linearity	K02-5	DL16ad
17	9650-2DC		2	MON		2.0*	-0.8Δ	16	5.5	730m	0 7	4-Bit Curr Source;Lin ±0.5% FSI	K02-5	DL16ad
18	9650-2DM		2	MON		2.0*	-0.7Δ	16	5.5	730m	5 C	4-Bit Curr Source;Lin ±0.5% FSI	K02-5	DL16ad
19	9650-3DC		2	MON		2.0*	-0.8Δ	16	5.5	730m	0 7	4-Bit Curr Source;Lin ±2% FSI	K02-5	DL16ad
20	9650-3DM		2	MON		2.0*	-0.7Δ	16	5.5	730m	5 C	4-Bit Curr Source;Lin ±2% FSI	K02-5	DL16ad
21	MC8503P		2	MON		2.4Δ*	0.5ΔC	0.5	7.0	400m†	0 7	Universal Polynomial Generator	K02-43	DL14ag
22	MC8504P		2	MON		2.4Δ*	0.4ΔC	0.5	7.0	350m†	0 7	Universal Presettable Polynom	K02-44	DL16j
23	SN54265J		2	MON		2.0*	-0.8Δ	0.0	5.0	170m	5 C	Quad Compl Outp Elem, TTL Gen.	74-265N	DL16v
24	SN54265W		2	MON		2.0*	-0.8Δ	0.0	5.0	170m	5 C	Quad Compl Outp Elem, TTL Gen.	54-265W	MO004AG
25	SN74265J		2	MON		2.0*	-0.8Δ	0.0	5.0	170m	0 7	Quad Compl Outp Elem, TTL Gen.	74-265N	DL16v
26	SN74265N		2	MON		2.0*	-0.8Δ	0.0	5.0	170m	0 7	Quad Compl Outp Elem, TTL Gen.	74-265N	DL16i
27	2621		2	MOS	3.6M	2.2*	-0.8Δ	0.0	5.0	5.0	0 5	GENERATOR,Sync;PAL FORMAT	K02-36a	DLZ
28	2622		2	MOS	3.6M	2.2*	-0.8Δ	0.0	5.0	5.0	0 5	GENERATOR,Sync;NTSC Format	K02-36	DLZ
29	HD3-4702-2#mil		2	MOS	2.5M	3.5*	1.5Δ	0	8.0	4.5m†	5 C	CMOS Prog Bit Rate Gen	K02-28	DL16dr
30	HD3-4702-9		2	MOS	2.5M	3.5*	1.5Δ	0	8.0	4.5m†	4 8	CMOS Prog Bit Rate Gen	K02-28	DL16dr
31	HD4-4702-2#mil		2	MOS	2.5M	3.5*	1.5Δ	0	8.0	4.5m†	5 C	CMOS Prog Bit Rate Gen	K02-28	LC11
32	HD4-4702-9		2	MOS	2.5M	3.5*	1.5Δ	0	8.0	4.5m†	4 8	CMOS Prog Bit Rate Gen	K02-28	LC11
33	MC14411L		2	MOS	1.8M	3.5*	1.5Δ	0.0	5.0	2.5m	4 8	Bit Rate Gen;16 Outp Ck Rts	44-11	DL24ak
34	MC14411P		2	MOS	1.8M	3.5*	1.5Δ	0.0	5.0	2.5m	4 8	Bit Rate Gen;16 Selected Output	44-11	DL24o
35	MC14566BAL		2	MOS	4.2m†	11*	4.0Δ	0.0	15	300u%	5 C	Industrial Time Base Generator	45-66	DL16am
36	MC14566BCL		2	MOS	4.2m†	11*	4.0Δ	0.0	15	1.2m%	4 8	Industrial Time Base Generator	45-66	DL16am
37	MC14566BCP		2	MOS	4.2m†	11*	4.0Δ	0.0	15	1.2m%	4 8	Industrial Time Base Generator	45-66	DL16bo
38	MM4320D		2	MOS	2.0M	3.5*	-0.8Δ	12	5.0	432m	5 8	TV Camera Syne Generator	K02-21	DL16bz
39	MM5320D		2	MOS	2.0M	3.5*	-0.8Δ	12	5.0	432m	0 7	TV Camera Syne Generator	K02-21	DL16bz
40	MM5320N		2	MOS	2.0M	3.5*	-0.8Δ	12	5.0	432m	0 7	TV Camera Syne Generator	K02-21	DL16bu
41#	MN3101		2	MOS		0.6*	0.5*	15	0.0	45m†	1 7	CMOS Clock Gen/Driver for BBD	K02-40	DL8f
42#	MN3102		2	MOS		0.5*	0.4*	0.0	5.0	2.5m†	1 7	CMOS Clock Gen/Driver for BBD	K02-41	DL8f
43#	MN3105		2	MOS			0.3	6.0	0.0		2 7	Clock Generator/Driver for CMBD	K02-41	DL8f
44#	MN6221		2	MOS				0.0	1.5	300m	2 6	Melody Alarm Generator BBS IC	K02-42	DL18s
45#	SFF5201		2	MOS	12M			0.0	12	400m	4 8	Oscillator/Frequency Divider	K02-3	TO99
46	SN54LS630J		3			§				600m†		DETECTOR,Error;16-Bit Parallel	*	DLZ
47	SN54LS631J		3			§				600m†		DETECTOR,Error;16-Bit Parallel	*	DLZ
48	SN74LS630J		3			§				600m†		DETECTOR,Error;16-Bit Parallel	*	DLZ
49	SN74LS630N		3			§				600m†		DETECTOR,Error;16-Bit Parallel	*	DLZ
50	SN74LS631J		3			§				600m†		DETECTOR,Error;16-Bit Parallel	*	DLZ
51	SN74LS631N		3			§				600m†		DETECTOR,Error;16-Bit Parallel	*	DLZ
52#	MC74F2960J(A)		3	BIP	3.0M	2.0§	0.8	0.0	5.25	365m	0 7	Error Detection and Correction	K03-23	DL48a
53	MC8500L		3	BIP	3.0M	2.4	0.5C	0.0	5.0	365m	0 7	Error Pattern Register	K03-22	DL24be
54	MC8500P		3	BIP	3.0M	2.4	0.5	0.0	5.0	365m	0 7	Error Pattern Register	K03-22	DL24bc
55	MC8501L		3	BIP	3.0M	2.4	0.5	0.0	5.0	320m	0 7	Error Pattern Register	K03-23	DL16ao
56	MC8501P		3	BIP	3.0M	2.4	0.5C	0.0	5.0	320m	0 7	Error Pattern Register	K03-23	DL16dp
57	MC8502L		3	BIP	3.0M	2.4	0.5	0.0	5.0	350m	0 7	Dual Mode Register	K03-21	DL24be
58	MC10905(A)		3	ECL		-0.8Δ	-2.0*	7	0		0 7	16-bit Error Detection	K03-22	LC10
59#	8206(A)		3	HMOS		2.0	0.8	0.5	7.0	2.5	0 7	Mem Sys Err Det/Corr Circuit	K03-24	LC15
60	MC8502P		3	MON		2.4Δ	0.5ΔC	0.5	7.0	350m†	0 7	Error Det/Corr Ckt	K03-21	DL24o
61	MC10163L		3	MON		-0.96*	-1.6AC	5.2	0.0	650m	3 8	Mem Sys Err Det/Corr Ckt	K03-2	DL16am
62	MC10163P		3	MON		-0.96*	-1.6AC	5.2	0.0	650m	3 8	Mem Sys Err Det/Corr Ckt	K03-2	DL16bo
63	MC10193L		3	MON		-0.96*	-1.6AC	5.2	0.0	650m	3 8	Mem Sys Err Det/Corr Ckt	K03-3	DL16am
64	MC10193P		3	MON		-0.96*	-1.6AC	5.2	0.0	650m	3 8	Mem Sys Err Det/Corr Ckt	K03-3	DL16bo
65	MC10563F		3	MON		-0.93*	-1.6AC	5.2	0.0	650m	5 C	Mem Sys Err Det/Corr Ckt	K03-2	FP85
66	MC10563L		3	MON		-0.93*	-1.6AC	5.2	0.0	650m	5 C	Mem Sys Err Det/Corr Ckt	K03-2	DL16am
67	MC10593F		3	MON		-0.93*	-1.6AC	5.2	0.0	650m	5 C	Mem Sys Err Det/Corr Ckt	K03-3	FP85
68	MC10593L		3	MON		-0.93*	-1.6AC	5.2	0.0	650m	5 C	Mem Sys Err Det/Corr Ckt	K03-3	DL16am
69#	N8X01AN		3	MON	12M	2.0*	-0.8Δ	0.0	5.0	577m	0 7	CRC Generator Checker	K03-20	DLZ
70#	N9401N		3	MON	12M	2.0*	-0.8Δ	0.0	5.0	577m	0 7	CRC Generator Checker	K03-20a	DLZ
71#	S8X01AF		3	MON	12M	2.0*	-0.8Δ	0.0	5.0	577m	5 C	CRC Generator Checker	K03-20	DLZ
72#	S9401F		3	MON	12M	2.0*	-0.8Δ	0.0	5.0	577m	5 C	CRC Generator Checker	K03-20a	DLZ
73	54H87DM		4	MON		2.0*	-0.8Δ	0.0	5.0	270m†	5 C	4-Bit True/Compl Element	74H87N	TO116
74	54H87FM		4	MON		2.0*	-0.8Δ	0.0	5.0	270m†	5 C	4-Bit True/Compl Element	54H87W	FP21h
75	74H87DC		4	MON		2.0*	-0.8Δ	0.0	5.0	270m†	0 7	4-Bit True/Compl Element	74H87N	TO116
76	74H87PC		4	MON		2.0*	-0.8Δ	0.0	5.0	270m†	0 7	4-Bit True/Compl Element	74H87N	DL14ce
77#	H629B1		4	MON		22Δ	-4.0Δ	0.0	20	250m	1 6	DTL Gate For Electronic Organ	K04-17	DL14w
78#	H632B1		4	MON	125M	22Δ	-4.0Δ	0.0	20	250m	1 6	DTL Gate For Electronic Organ	K04-16	DL16bj
79	N1025A		4	MON		-0.77	-1.6	5.2	0.0	140m	0 7	Dual 4.5 Input Expander	K04-10	DL14ad
80	N8261F		4	MON		2.6*	-0.4ΔC	0.0	5.0	140m	0 7	Fast Carry Extender;Gate Array	K04-10	TO88
81	N8261Q		4	MON		2.6*	-0.4C	0.0	5.0	140m	0 7	Fast Carry Extender;Gate Array	K04-10	DL14af
82	SN54H87J		4	MON		2.0*	-0.8Δ	0.0	5.0	270m†	5 C	4-Bit True/Compl Element	74H87N	MO004AA
83	SN54H87W		4	MON		2.0*	-0.8Δ	0.0	5.0	270m†	5 C	4-Bit True/Compl Element	54H87W	DL16v
84	SN54LS275J		4	MON		2.0*	-0.7Δ	0.0	5.0	200m	5 C	7-Bit Slice Wallace Tree	74S275	DL16v
85	SN54S275J		4	MON		2.0*	-0.8Δ	0.0	5.0	525m†	5 C	7-Bit Slice Wallace Tree	K04-4	DL16v
86	SN74H87J		4	MON										

27. SPECIAL DEVICES

IN ORDER OF:(1)TYPE CODE(2)TECHNOLOGY
(3)TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TYPE CODE	TECH	MAX. FREQ. (Hz)	LOGIC LEVEL		POWER SUPPLY		MAX. OPER. POWER DISS (W)	OPER. TEMP. RANGE CODE	GENERAL DESCRIPTION	DRAWINGS	
						MIN. '1' (V)	MAX. '0' (V)	NEG. (V)	POS. (V)				LOGIC OR BLOCK	OUTLINE
1#	HD14530B		4	MOS		3.7	1.2	0.0	15	300m	4 8	Dual 5 Input Majority Logic Gat	45-30	DL16p
2#	HD14572UB		4	MOS		4.0	1.0	0.0	15	300m	4 8	Hex Gate;4Inv;2In NAND	45-72	DL16p
3#	MC10H117L #ai		4	MOS		-1.0*	1.45A	-0.8	0	100m	0 7	10kH Hi-Spd E-C L	K04-25	DL16z
4	MC10H117P #ai		4	MOS		-1.0*	1.45A	-0.8	0	100m	0 7	10kH Hi-Spd E-C L	K04-25	DL16z
5	MC10H118L #ai		4	MOS		-1.0*	1.45A	-0.8	0	100m	0 7	10kH Hi-Spd E-C L	K04-26	DL16z
6	MC10H118P #ai		4	MOS		-1.0*	1.45A	-0.8	0	100m	0 7	10kH Hi-Spd E-C L	K04-26	DL16z
7	MC10H119L #ai		4	MOS		-1.0*	1.45A	-0.8	0	100m	0 7	10kH Hi-Spd E-C L	K04-27	DL16z
8	MC10H119P #ai		4	MOS		-1.0*	1.45A	-0.8	0	100m	0 7	10kH Hi-Spd E-C L	K04-27	DL16z
9	MC10H121L #ai		4	MOS		-1.0*	1.45A	-0.8	0	100m	0 7	10kH Hi-Spd E-C L	K04-28	DL16z
10	MC10H121P #ai		4	MOS		-1.0*	1.45A	-0.8	0	100m	0 7	10kH Hi-Spd E-C L	K04-28	DL16z
11	MC14530BAL		4	MOS		12*	4.0A	0.0	15	15u%	5 C	Dual 5-Input Majority Logic Gat	45-30B	DL16am
12	MC14530BCL		4	MOS		12*	4.0A	0.0	15	60u%	4 8	Dual 5-Input Majority Logic Gat	45-30B	DL16am
13	MC14530BCP		4	MOS		12*	4.0A	0.0	15	60u%	4 8	Dual 5-Input Majority Logic Gat	45-30B	DL16bo
14	MC14572UBAL		4	MOS		11.2*	3.75A	0.0	15	30u	5 C	Hex Gate4 Inv;2Ip Nor;2Ip NAND	45-72U	DL16am
15	MC14572UBCL		4	MOS		11.2*	3.75A	0.0	15	30u%	4 8	Hex Gate4 Inv;2Ip Nor;2Ip NAND	45-72U	DL16am
16	MC14572UBCP		4	MOS		11.2*	3.75A	0.0	15	30u%	4 8	Hex Gate4 Inv;2Ip Nor;2Ip NAND	45-72	DL16bo
17	MCA		4	MOS				0.0	15		5 C	CMOS Gate Array;100 Gates	CHIz	
18	MCB		4	MOS				0.0	15		5 C	CMOS Gate Array;150 Gates	CHIz	
19	MCC		4	MOS				0.0	15		5 C	CMOS Gate Array;200 Gates	CHIz	
20	MCD		4	MOS				0.0	15		5 C	CMOS Gate Array;350 Gates	CHIz	
21#	IC4530BP		4	MOS		14.9	.05*	0.0	15	300m	4 8	Dual 5-Input Majority Logic	45-30	DL14ch
22#	TC4572BP		4	MOS			11*	4A		300m	4 8	HEX GATE;4 INV;2-INPNOR;2-INPAN	45-72U	DL14ch
23	ICM7273D		5		32k			1.55	1.55	100m	1 6	4-Digit LCD Watch Ckt;Dice Only	K05-36	
24	NS5000A		5		1.5M		12*			500m	5 A	Transformer Isolated Microchopp	K05-19	CN76
25	DM8899N		5	MON		2.0	0.8				0 7	TRISTATE BCD-BIN/BIN-BCDConv	K05-39	DL16a
26	DM8899M		5	MON		2.0	0.8				0 7	TRISTATE BCD-BIN/BIN-BCDConv	K05-39	DL16a
27	DM54184J #mil		5	MON		2.0	0.8	0	7.0		5 C	BCD to Bin/Bin to BCD Conv	K05-39	DL16au
28	DM54184W #mil		5	MON		2.0	0.8	0	7.0		5 C	BCD to Bin/Bin to BCD Conv	K05-39	FP98b
29	DM54185AJ #mil		5	MON		2.0	0.8	0	7.0		5 C	BCD to Bin/Bin to BCD CoNV	K05-39	DL16au
30	DM54185AW #mil		5	MON		2.0	0.8	0	7.0		5 C	BCD to Bin/Bin to BCD CoNV	K05-39	FP98b
31	DM74184N		5	MON		2.0	0.8	0	7.0		0 7	BCD to Bin/Bin to BCD Conv	K05-39	DL16a
32	DM74185AN		5	MON		2.0	0.8	0	7.0		0 7	BCD to Bin/Bin to BCD CoNV	K05-39	DL16a
33#	ESM392		5	MON		17*	-12A	0.0	32	900m	2 7	Control Gate For ESM391	K05-29	TO116
34	MC875L P%		5	MON		12.5*	1.5AC	0.0	15	180m	0 7	Pulse Stretcher;Far Out 10		TO116
35	MC12014L		5	MON		2.4*	.50AC	0.0	5.0		0 7	Counter Control Logic		DL16aj
36#	SAK140		5	MON				0.0	12	130m	4 8	Rev Cter for Cars;10 50mA max	K05-21	DL14a
37	SN54AS867FC #mil		5	MON	50M	2.0	0.8	0	7.0		5 C	Synch 8-Bit UP/DOWN Counter	K05-38	CHIz
38	SN54AS867JT #mil		5	MON	50M	2.0	0.8	0	7.0		5 C	Synch 8-Bit UP/DOWN Counter	K05-37	DL24bf
39	SN54AS869FC #mil		5	MON	50M	2.0	0.8	0	7.0		5 C	Synch 8-Bit UP/DOWN Counter	K05-38	CHIz
40	SN54AS869JT #mil		5	MON	50M	2.0	0.8	0	7.0		5 C	Synch 8-Bit UP/DOWN Counter	K05-37	DL24bf
41	SN74AS867FN		5	MON	50M	2.0	0.8	0	7.0		0 7	Synch 8-Bit UP/DOWN Counter	K05-38	CHIz
42	SN74AS867NT		5	MON	50M	2.0	0.8	0	7.0		0 7	Synch 8-Bit UP/DOWN Counter	K05-37	DL14bg
43	SN74AS869FN		5	MON	50M	2.0	0.8	0	7.0		0 7	Synch 8-BIT UP/DOWN Counter	K05-38	CHIz
44	SN74AS869NT		5	MON	50M	2.0	0.8	0	7.0		0 7	Synch 8-BIT UP/DOWN Counter	K05-37	DL14bg
45	XR558CN		5	MON				0.0	16	576m%	0 7	Quad Timer,Open Collector	L00-95	
46	XR558CP		5	MON				0.0	16	576m%	0 7	Quad Timer,Open Collector	L00-95	
47	XR558M		5	MON				0.0	18	576m%	5 C	Quad Timer,Open Collector	L00-95	
48	XR559CN		5	MON				0.0	16	576m%	0 7	Quad Timer,Emitter Follower Out	L0097	
49	XR559CP		5	MON				0.0	16	576m%	0 7	Quad Timer,Emitter Follower Out	L0097	
50	XR559M		5	MON				0.0	18	576m%	5 C	Quad Timer,Emitter Follower Out	L0097	
51	XRL556CN		5	MON				0.0	15	15m	0 7	Micropower Dual Timer	L0099	
52	XRL556CP		5	MON				0.0	15	15m	0 7	Micropower Dual Timer	L0099	
53	XRL556M		5	MON				0.0	15	9.0m	5 C	Micropower Dual Timer	L0099	
54	ICM7216AJI		5	MOS	10M	3.5*	1.0A	0.0	5.0	1.0	2 7	Uni Count;LED Com Anode Dr	K05-30	DL28f
55	ICM7216BPI		5	MOS	10M	3.5*	1.0A	0.0	5.0	1.0	2 7	Uni Count;LED Com Anode Dr	K05-30a	DL28e
56	ICM7216CJI		5	MOS	10M	3.5*	1.0A	0.0	5.0	500m	2 7	Uni Count;LED Com Anode Dr	K05-30b	DL28f
57	ICM7216DPI		5	MOS	10M	3.5*	1.0A	0.0	5.0	500m	2 7	Uni Count;LED Com Anode Dr	K05-30c	DL28e
58	ICM7240D		5	MOS	100KT			0.0	5.0	200m	2 8	CMOS Prog Ter/Cer;Out C 1-225RC	K05-34	
59	ICM7240J		5	MOS	100KT			0.0	5.0	200m	2 8	CMOS Prog Ter/Cer;Out C 1-225RC	K05-34	DL16dj
60	ICM7242D		5	MOS	13M			0.0	5.0	200m	2 8	Long Range Fix Ter/Cer;Dice	K05-35	
61	ICM7242JA		5	MOS	13M			0.0	5.0	200m	2 8	Long Range Fixed Timer/Counter	K05-35	DL8af
62	ICM7250D		5	MOS	100KT			0.0	5.0	200m	2 8	CMOS Prog Ter/Cer;Out C 1-99RC	K05-34	
63	ICM7250JE		5	MOS	100KT			0.0	5.0	200m	2 8	CMOS Prog Ter/Cer;Out C 1-99RC	K05-34	DL16dj
64	ICM7260D		5	MOS	100KT			0.0	5.0	200m	2 8	CMOS Prog Ter/Cer;Out C 1-59RC	K05-34	
65	ICM7260JE		5	MOS	100KT			0.0	5.0	200m	2 8	CMOS Prog Ter/Cer;Out C 1-59RC	K05-34	DL16dj
66	MC14408L		5	MOS	100K\$	4.95*	.05AC	0.0	5.0	5.0m	4 8	Bin To Phone Pulse Conv	44-08	DL16aj
67	MC14408P		5	MOS	100K\$	4.95*	.05AC	0.0	5.0	5.0m	4 8	Bin To Phone Pulse Conv	44-08	DL16bo
68	MC14409L		5	MOS	100K\$	4.95*	.05AC	0.0	5.0	5.0m	4 8	Bin To Phone Pulse Conv	44-09	DL16aj
69	MC14409P		5	MOS	100K\$	4.95*	.05AC	0.0	5.0	5.0m	4 8	Bin To Phone Pulse Conv	44-09	DL16bo
70	MC14490EFL		5	MOS	1.0M\$	9.9*	.01AC	0.0	10		5 C	Hex Contact Bounce Eliminator	44-90P	DL16am
71	MC14490EVL		5	MOS	400K\$	4.9*	.01AC	0.0	5.0		5 C	Hex Contact Bounce Eliminator	44-90P	DL16am
72	MC14490FL		5	MOS	1.0M\$	9.9*	.01AC	0.0	10		4 8	Hex Contact Bounce Eliminator	44-90P	DL16am
73	MC14490FP		5	MOS	1.0M\$	9.9*	.01AC	0.0	10		4 8	Hex Contact Bounce Eliminator	44-90P	DL16j
74	MC14490VL		5	MOS	400K\$	4.9*	.01AC	0.0	5.0		4 8	Hex Contact Bounce Eliminator	44-90P	DL16am
75	MC14490VP		5	MOS	400K\$	4.9*	.01AC	0.0	5.0		4 8	Hex Contact Bounce Eliminator	44-90P	DL16j
76#	MN6061A		5	MOS				0.0	6.2		1 7	VTR Color Signal Processing	K05-27	DL16cn
77#	MN6062		5	MOS				0.0	5.0		2 6	Color Circuit for Video Game	K05-28	DL18f
78#	SAA5040		5	MOS	1.0M			0.0	5.0		2 7	Nchan Mos Tv Rem Cont Com	K09-49	
79#	SAA5040A		5	MOS	1.0M			0.0	5.0		2 7	Nchan Mos Tv Rem Cont Com	K09-49	
80#	SAA5040B		5	MOS	1.0M			0.0	5.0		2 7	Nchan Mos Tv Rem Cont Com	K09-49	
81#	SAA5041		5	MOS	1.0M			0.0	5.0		2 7	Nchan MOS TV Rem Cont Com	K09-49	
82#	SAA5042		5	MOS	1.0M			0.0	5.0		2 7	Nchan MOS TV Rem Cont Com	K09-49	
83#	SAA5043		5	MOS	1.0M			0.0	5.0		2 7	Nchan MOS TV Rem Cont Com	K09-49	
84	ICM7226EV/KIT		5	PCM	10M			0.0	5.0		0 7	Universal Counter Evaluation Ki	K05-33	
85	MC4042L P%		6				.50AC	0.0	5.0	120mf	0 7	Quad Predriver	74LS442N	TO116
86	XR2200		6		10 *			0.0	26	890m	2 7	Hammer Driver	L0098	
87	CA3199E		6	BIP	1.3G			0.0	5.0	830m	0 8	VHF/UHF Dividex4 Prescaler	K06-160	DL8p
88	CA3211E		6	BIP	1.0G			0.0	5.0	890m	4 8	VHF/UHF Prescaler	K06-159	DL18n
89	MC12015P(A)		6	ECL	225M			0.0	9.5		4 8	Two Modulus Prescaler	K06-154	DL8ai
90	MC12016P(A)		6	ECL	225M			0.0	9.5		4 8	Two Modulus Prescaler	K06-154a	DL8ai
91	MC12017P(A)		6	ECL	225M			0.0	9.5		4 8	Two Modulus Prescaler	K06-154b	DL8ai
92	MC12018P(A)		6	ECL	520MT	2.0	0.8	0.0	9.5		4 8	2 Modulus Prescaler	K06-160	DL8ah
93	MC12019P(A)		6	ECL	225MT	2.0	0.8	0.0	5.5		4 8	Two Modulus Prescaler	K06-163	DL8ah
94	MC12022P(A)		6	ECL	1.0GT	2.0	0.8	0.0	9.5		4 8	2 Modulus Prescaler	K06-160	DL8ah
95	MC12023P(A)		6	ECL	225MT	3.5	0.5C	0.0	5.5		0 7	Divide x4 Prescaler	K06-161	DL8ah
96	MC12090L(A)		6	ECL	750MT	-.81	-1.9	5.2	0.0		0 7	D Master/Slave Flip-Flop	K06-162	DL16ao
97	MC12090P(A)		6	ECL	750MT	-.81	-1.9	5.2	0.0		0 7	D Master/Slave Flip-Flop	K06-162	DL16dp
98	F11C83DC		6	MON	950M	2.7*	.40AC	0.0	5.0	650m%	0 7	1GHz Divide By 248/256 Prescale	K06-13	TO116
99	F11C90DC		6	MON	650MT	-1.0*	-1.4A	5.2	0.0	619m%	0 7	650MHz Prescaler	K06-14	DL16cj
100	F11C90DM		6	MON	650MT	-1.0*	-1.4A	5.2	0.0	619m%	5 C			

27. SPECIAL DEVICES

IN ORDER OF: (1)TYPE CODE(2)TECHNOLOGY
(3)TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TYPE CODE	TECH	MAX. FREQ. (Hz)	LOGIC LEVEL		POWER SUPPLY SPAN		MAX. OPER. POWER DISS (W)	OPER. TEMP. RANGE CODE	GENERAL DESCRIPTION	DRAWINGS		
						MIN. '1' (V)	MAX. '0' (V)	NEG. (V)	POS. (V)				LOGIC OR BLOCK	OUTLINE	
1	NE543K		6	MON			3.75C	0.0	4.8	830m	0 7	Servo Driver	K06-3	CN38	
2	S8243F		6	MON			∅	0.0	5.0	376m	5 C	8 Bit Position Scaler	K06-7	DL24aa	
3	S8243Q		6	MON			∅	0.0	5.0	376m	5 C	8 Bit Position Scaler	K06-7	FP59c	
4	SN54AS894JT #mil		6	MON											
5	SN74AS894JT		6	MON			2.0	0.8	0	7.0	5 C	Expdbl Multi BIN/HEX Scalers	K06-153	DL24bf	
6	SN74AS894NT		6	MON			2.0	0.8	0	7.0	0 7	Expdbl Multi BIN/HEX Scalers	K06-153	DL24bf	
7	XR2272CN		6	MON					60	0.0	360m	0 7	High Voltage 7-Digit Display Dr	K06-153	DL24bg
8	XR2272CP		6	MON					60	0.0	360m	0 7	High Voltage 7-Digit Display Dr		L0093
9	XR6118P		6	MON					0.0	80	640m	0 7	Fluorescent Display Driver		L0096
10	XR6128P		6	MON					0.0	80	640m	0 7	Fluorescent Display Driver		L00963
11#	HD10551		6	MOS			4.0	1.0C	0.0	5.0	350m	3 7	Prescaler for Digital Tuning Sv	*	SL8A
12	ICM7211AIPL		6	MOS			3*	2Δ	0.0	5.0	250u	2 7	4 DIG Dis Decoder Drivers (LCD)	K06-21	DL40b
13	ICM7211AMIPL		6	MOS			3*	2Δ	0.0	5.0	250u	2 7	4 DIG Dis Decoder Drivers (LCD)	K06-19	DL40b
14	ICM7211IPL		6	MOS			3*	2Δ	0.0	5.0	250u	2 7	4 DIG Dis Decoder Drivers (LCD)	K06-21	DL40b
15	ICM7211MIPL		6	MOS			3*	2Δ	0.0	5.0	250u	2 7	4 DIG Dis Decoder Drivers (LCD)	K06-19	DL40b
16	ICM7212AIPL		6	MOS			3*	2Δ	0.0	5.0	250u	2 7	4 DIG Dis Decoder Drivers (LED)	K06-20	DL40b
17	ICM7212AMIPL		6	MOS			3*	2Δ	0.0	5.0	250u	2 7	4 DIG Dis Decoder Drivers (LED)	K06-19	DL40b
18	ICM7212IPL		6	MOS			3*	2Δ	0.0	5.0	250u	2 7	4 DIG Dis Decoder Drivers (LED)	K06-20	DL40b
19	ICM7212MIPL		6	MOS			3*	2Δ	0.0	5.0	250u	2 7	4 DIG Dis Decoder Drivers (LED)	K06-19	DL40b
20	ICM7218AJU%		6	MOS			2.4	.80	0.0	5.0	1.5 %	2 7	CMOS Univ. 8 DIG LED Driver Sys	K06-17	DL28k
21	ICM7218BIPi%		6	MOS			2.4	.80	0.0	5.0	1.5 %	2 7	CMOS Univ. 8 DIG LED Driver Sys	K06-17	DL28d
22	ICM7218CIU%		6	MOS			2.4	.80	0.0	5.0	1.5 %	2 7	CMOS Univ. 8 DIG LED Driver Sys	K06-18	DL28k
23	ICM7218DIPi%		6	MOS			2.4	.80	0.0	5.0	1.5 %	2 7	CMOS Univ. 8 DIG LED Driver Sys	K06-18	DL28d
24	ICM7218EIDL%		6	MOS			2.4	.80	0.0	5.0	1.5 %	2 7	CMOS Univ. 8 DIG LED Driver Sys	K06-16	DL40b
25	ICM7235AIPL		6	MOS			3*	1.5Δ	0.0	5.0	250u	2 7	4 Digit Non-Multiplexed Decoder	K06-23	DL40b
26	ICM7235AMIPL		6	MOS			3*	1.5Δ	0.0	5.0	250u	2 7	4 Digit Non-Multiplexed Decoder	K06-24	DL40b
27	ICM7235IPL		6	MOS			3*	1.5Δ	0.0	5.0	250u	2 7	4 Digit Non-Multiplexed Decoder	K06-23	DL40b
28	ICM7235MIPL		6	MOS			3*	1.5Δ	0.0	5.0	250u	2 7	4 Digit Non-Multiplexed Decoder	K06-24	DL40b
29	MC145000		6	MOS					0.0	6.0			Multiplexed LCD Driver - M	45-000	DL2j
30	MC145001		6	MOS					0.0	6.0			Multiplexed LCD Driver-Slave	45-001	DL2j
31#	SFF5100E		6	MOS	1.0M\$		3.0*	.80Δ	15	5.0	600m	0 7	Dec Cter/7 Seg Display Driver	K06-1	DL24af
32#	SFF5100K		6	MOS	1.0M\$		3.0*	.80Δ	15	5.0	600m	0 7	Dec Cter/7 Seg Display Driver	K06-1	DL24af
33	XR2271CN		6	MOS			-90	-40C	40	0.0	480m	0 7	7 Digit or 7 Segment Display Dr		L0094
34	XR2271CP		6	MOS			-90	-40C	40	0.0	480m	0 7	7 Digit or 7 Segment Display Dr		L0094
35▼	DS8614N		6	TTL	225M		2.0	0.8	0.0	15		3 7	Prescaler;Divide x20/21	K06-155	DL8b
36	DS8615N(A)		6	TTL	225M		2.0	0.8	0.0	15		3 7	Prescaler;Divide x32/33	*	DL8b
37	DS8616N(A)		6	TTL	225M		2.0	0.8	0.0	15		3 7	Prescaler;Divide x40/41	*	DL8b
38	DS8617N(A)		6	TTL	225M		2.0	0.8	0.0	15		3 7	Prescaler;Divide x64/65	K06-158	DL8b
39#	GXB0165		7						5.2	0.0		3 8	ENCODER,8-Input Priority;Binary	K07-11	DL2j
40	MM54C922N		7				8.0	2.0	0	15	500m	5 C	ENCOD;16-Key CMOS;Max Pd 500mW	74C922	
41	MM54C923N		7				8.0	2.0	0	15	500m	5 C	ENCOD;20-Key CMOS;Max Pd 500mW	K07-8	
42	MM74C922N		7				8.0	2.0	0	15	500m	4 8	ENCOD;16-Key CMOS;Max Pd 500mW	74C922	
43	MM74C923N		7				8.0	2.0	0	15	500m	4 8	ENCOD;20-Key CMOS;Max Pd 500mW	74C923	
44♦	ED5		7	CMS	25k\$		4.7	0.3	0	5		0 7	Prog ENCODE/DECODE	K07-9	DL18b
45♦	ED9		7	CMS	25k\$		4.7	0.3	0	5		0 7	9-bit Prog ENCODE/DECODE	K07-9	DL18b
46♦	ED11		7	CMS	25k\$		4.7	0.3	0	5		0 7	ENCOD/DECOD,PROG;11 Bits	K07-9	DL28n
47♦	ED15		7	CMS	25k\$		4.7	0.3	0	5		0 7	ENCOD/DECOD,Prog;15 Bits	K07-9	DL28n
48	F100156DC		7	ECL			-0.9Δ	-1.8*	4.5	0		0 8	Mask-Merge	K07-18	DL24an
49	F100156FC		7	ECL			-0.9Δ	-1.8*	4.5	0		0 8	Mask-Merge	K07-18	FP19
50	CD4532BD #mil		7	MON					-0.5	20	500m	5 C	COS/MOS 8-bit Priority Encoder	K07-29	MO001AE
51	CD4532BE		7	MON					-0.5	20	500m	4 8	COS/MOS 8-bit Priority Encoder	K07-29	MO001AC
52	CD4532BF #mil		7	MON					-0.5	20	500m	5 C	COS/MOS 8-bit Priority Encoder	K07-29	MO001AC
53	CD4532BH #mil		7	MON					-0.5	20	500m	5 C	COS/MOS 8-bit Priority Encoder	K07-29	CH134
54	CD4532BK #mil		7	MON					-0.5	20	500m	5 C	COS/MOS 8-bit Priority Encoder	K07-29	MO004AH
55	CDP1853CD #mil		7	MON					-0.5	7.0		5 C	N Bit 1 of 8 Decoder	K07-30	DL16dc
56	CDP1853CE		7	MON					-0.5	7.0		4 8	N Bit 1 of 8 Decoder	K07-30	MO001AC
57	CDP1853D #mil		7	MON					-0.5	11		5 C	N Bit 1 of 8 Decoder	K07-30	DL16dc
58	CDP1853E		7	MON					-0.5	11		4 8	N Bit 1 of 8 Decoder	K07-30	MO001AC
59	DM54147J #mil		7	MON			2.0	0.8	0	7.0	225m	5 C	Encd 10-line dec to 4-line BCD	K07-34	DL16au
60	DM54147W #mil		7	MON			2.0	0.8	0	7.0	225m	5 C	Encd 10-line dec to 4-line BCD	K07-34	FP98b
61	DM54148J #mil		7	MON			2.0	0.8	0	7.0	190m	5 C	Encd 8-line dec to 3-line Binar	K07-7	DL16au
62	DM54148W #mil		7	MON			2.0	0.8	0	7.0	190m	5 C	Encd 8-line dec to 3-line Binar	K07-7	FP98b
63	DM74147J		7	MON			2.0	0.8	0	7.0	225m	0 7	Encd 10-line dec to 4-line BCD	K07-34	DL16au
64	DM74147N		7	MON			2.0	0.8	0	7.0	225m	0 7	Encd 10-line dec to 4-line BCD	K07-34	DL16a
65	DM74147W		7	MON			2.0	0.8	0	7.0	225m	0 7	Encd 10-line dec to 4-line BCD	K07-34	FP98b
66	DM74148J		7	MON			2.0	0.8	0	7.0	190m	0 7	Encd 8-line dec to 3-line Binar	K07-7	DL16au
67	DM74148N		7	MON			2.0	0.8	0	7.0	190m	0 7	Encd 8-line dec to 3-line Binar	K07-7	DL16a
68	DM74148W		7	MON			2.0	0.8	0	7.0	190m	0 7	Encd 8-line dec to 3-line Binar	K07-7	FP98b
69#	HD100156		7	MON			-1.2*	-1.5Δ	5.7	0.0	40m†	0 8	Mask-Merge	K07-18	DL24aw
70#	HD100156F		7	MON			-1.2*	-1.5Δ	5.7	0.0	40m†	0 8	Mask-Merge	K07-18	FP146
71#	HD100165 #ai		7	MON			-1.1*	-1.5Δ	7.0	0	40m†	0 8	Universal Priority Encoder	K07-26	DL24j
72#	HD100165F #ai		7	MON			-1.1*	-1.5Δ	7.0	0	40m†	0 8	Universal Priority Encoder	K07-26	FP14j
73▼	MT32008C		7	MON			2.4	0.8	0.5	10.5		5 C	Mon Manchester II Encod/Decoder	K07-35	FP156
74▼	MT32008D		7	MON			2.4	0.8	0.5	10.5		5 C	Mon Manchester II Encod/Decoder	K07-35	DL48b
75▼	MT32008F		7	MON			2.4	0.8	0.5	10.5		5 C	Mon Manchester II Encod/Decoder	K07-35	FP156
76	NE5044D		7	MON					0.0	10		2 7	Programmable 7 Channel RC Encod	K07-17	K07-17
77	NE5044N		7	MON					0.0	10		2 7	Programmable 7 Channel RC Encod	K07-17	DL16bp
78#	ZNPCM1CE		7	MON	4.0M†		2.5*	.80Δ	0.0	5.0	550m	0 7	Single channel Codec I.C. K	K07-6	DL24p
79	DP8340J		7	MOS	3.5M		2.0	0.8	0	7.0		0 7	Serial Bi-Phase Transmit/encod	K07-32	DL24bh
80	DP8340N		7	MOS	3.5M		2.0	0.8	0	7.0		0 7	Serial Bi-Phase Transmit/encod	K07-32	DL24n
81#	GZF1202P		7	MOS			3.5*	1.5Δ	0.0	5.0		4 8	Encod and Decod for Err Detect	K07-2	
82	HD1-15530-2 #mil		7	MOS	15M\$		3.5*	1.0Δ	0	7.0		5 C	CMOS Manchester Encoder-Decoder	*	DL24b
83	HD1-15530-9		7	MOS	15M\$		3.5*	1.0Δ	0	7.0		4 8	CMOS Manchester Encoder-Decoder	*	DL24b
84	HD1-15531-9		7	MOS	15M\$		3.5*	1.0Δ	0	7.0		4 8	CMOS Manchester Encoder-Decoder	K07-25	DL40o
85	HD4-15530-2 #mil		7	MOS	15M\$		3.5*	1.0Δ	0	7.0		4 8	CMOS Manchester Encoder-Decoder		

27. SPECIAL DEVICES

IN ORDER OF: (1) TYPE CODE (2) TECHNOLOGY
(3) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	1] TYPE CODE	2] TECH	MAX. FREQ. (Hz)	LOGIC LEVEL		POWER SUPPLY SPAN		MAX. OPER. POWER DISS (W)	OPER. TEMP. RANGE CODE		GENERAL DESCRIPTION	DRAWINGS	
						MIN. '1' (V)	MAX. '0' (V)	NEG. (V)	POS. (V)		-	+		LOGIC OR BLOCK	OUTLINE
1	MC145028P#ai		7	MOS	10MS	11.0*	4.0Δ	0.5	18.0		4	8	Decoder;Remote Cont.	K07-20	DL16d
2	S2600		7	MOS	2.0M	6.3*	2.1Δ	0.0	10		0	7	ENCODER 2-Chip Set w/S2601	K07-13	DL16di
3	S2601		7	MOS	2.0M	11.9Δ	4.2*	0.0	18		0	7	DECODER 2-Chip Set w/S2600	K07-14	DL22c
4	S2602		7	MOS	2.0M	20*	80Δ	0.3	14		0	7	ENCOD-Remote Cont2-chip Set	K07-13	DL16di
5	S2603		7	MOS	768k	85Δ	30*	0.3	14		0	7	DECOD-Remote cont2-Chip Set	K07-14	DL22c
6	Am6688DL6		8	ECL	100M	-72	-1.9C	6.0	7.0		3	8	Quantizer 4-Bit	K08-1	DL18u
7	Am6688DL7		8	ECL	100M	-72	-1.9C	6.0	7.0		3	8	Quantizer 4-Bit	K08-1	DL18u
8	Am6688DL8		8	ECL	100M	-72	-1.9C	6.0	7.0		3	8	Quantizer 4-Bit	K08-1	DL18u
9	Am6688DM6		8	ECL	100M	-72	-1.9C	6.0	7.0		5	C	Quantizer 4-Bit	K08-1	DL18u
10	Am6688DM7		8	ECL	100M	-72	-1.9C	6.0	7.0		5	C	Quantizer 4-Bit	K08-1	DL18u
11	Am6688DM8		8	ECL	100M	-72	-1.9C	6.0	7.0		5	C	Quantizer 4-Bit	K08-1	DL18u
12	CD22011E		9	MOS	8.0M	3.5*	1.5Δ	0.0	5.0	200m	1	6	Analog;Clk Circuit;Quartz	K09-51	DL17
13	ICM7215IPG		9	MOS	3.2M†	2.0	0.0C	0.0	4.0	750m	2	7	LED Stop Watch Circuit	K09-18	DL24m
14	ICM7223VF-D		9	MOS	32k			15	15	500m	2	8	Vacuum Fluorescent Clock Ckt;3	K09-58	
15#	MN6076L		9	MOS	10k	-1.0	-11	12	0.0	15m	1	7	DIG AC Clock Timer	K09-48	DL40h

28. TYPES WITH U.S. MILITARY SPECIFICATIONS

IN TYPE NUMBER
SEQUENCE

TYPE No.	MFRS	MIL-S-38510/	TYPE No.	MFRS	MIL-S-38510/	TYPE No.	MFRS	MIL-S-38510/	TYPE No.	MFRS	MIL-S-38510/	TYPE No.	MFRS	MIL-S-38510/
M38510/00101BAA	NSC	1B AMEND 3	M38510/00103CDA	NSC	1B AMEND 3	M38510/00201BDA	NSC	2E AMEND 4	M38510/00205BCB	NSC	2E AMEND 4	M38510/00401CAC	FSC	4C AMEND 6
M38510/00101BAB	FSC MOTA	1B AMEND 3	M38510/00104BAA	NSC	1B AMEND 3	M38510/00201CAA	NSC	2E AMEND 4	M38510/00205BCC	NSC	2E AMEND 4	M38510/00401CCA	NSC	4C AMEND 6
M38510/00101BAC	FSC NSC	1B AMEND 3	M38510/00104BAB	FSC MOTA	1B AMEND 3	M38510/00201CAC	NSC	2E AMEND 4	M38510/00205BDA	NSC	2E AMEND 4	M38510/00401CCB	FSC	4C AMEND 6
M38510/00101BCA	NSC	1B AMEND 3	M38510/00104BAC	FSC NSC	1B AMEND 3	M38510/00201CCA	NSC	2E AMEND 4	M38510/00205CAA	NSC	2E AMEND 4	M38510/00401CDA	NSC	4C AMEND 6
M38510/00101BCB	FSC MOTA NSC TII	1B AMEND 3	M38510/00104BCA	NSC	1B AMEND 3	M38510/00201CCB	NSC	2E AMEND 4	M38510/00205CAB	FSC	2E AMEND 4	M38510/00402BEA	none	4C AMEND 6
M38510/00101BDA	NSC	1B AMEND 3	M38510/00104BCB	FSC MOTA NSC SIC TII	1B AMEND 3	M38510/00201CDA	NSC	2E AMEND 4	M38510/00205CAC	FSC NSC	2E AMEND 4	M38510/00402BEB	MOTA TII	4C AMEND 6
M38510/00101CAA	NSC	1B AMEND 3	M38510/00104BDA	NSC	1B AMEND 3	M38510/00202BAA	NSC	2E AMEND 4	M38510/00205CAB	NSC	2E AMEND 4	M38510/00402BFA	none	4C AMEND 6
M38510/00101CAB	FSC	1B AMEND 3	M38510/00104BAA	NSC	1B AMEND 3	M38510/00202BAB	MOTA	2E AMEND 4	M38510/00205CCA	NSC	2E AMEND 4	M38510/00402CEA	none	4C AMEND 6
M38510/00101CAC	FSC NSC	1B AMEND 3	M38510/00104CAB	FSC	1B AMEND 3	M38510/00202BAC	NSC	2E AMEND 4	M38510/00205CCB	NSC	2E AMEND 4	M38510/00402CEB	none	4C AMEND 6
M38510/00101CCA	NSC	1B AMEND 3	M38510/00104CAC	FSC NSC	1B AMEND 3	M38510/00202BCA	NSC	2E AMEND 4	M38510/00205CDA	NSC	2E AMEND 4	M38510/00402CFA	none	4C AMEND 6
M38510/00101CCB	FSC NSC	1B AMEND 3	M38510/00104CCA	NSC	1B AMEND 3	M38510/00202BCB	MOTA NSC SIC TII	2E AMEND 4	M38510/00206BAA	MOTA	2E AMEND 4	M38510/00403BAA	none	4C AMEND 6
M38510/00101CDA	NSC	1B AMEND 3	M38510/00104CCB	FSC NSC	1B AMEND 3	M38510/00202BDB	NSC	2E AMEND 4	M38510/00206BAB	FSC MOTA	2E AMEND 4	M38510/00403BAB	MOTA	4C AMEND 6
M38510/00102BAA	NSC	1B AMEND 3	M38510/00104CDA	NSC	1B AMEND 3	M38510/00202BDA	NSC	2E AMEND 4	M38510/00206BCA	none	2E AMEND 4	M38510/00403BCA	none	4C AMEND 6
M38510/00102BAB	FSC MOTA	1B AMEND 3	M38510/00106BCB	TII	1B AMEND 3	M38510/00202BDB	NSC	2E AMEND 4	M38510/00206BCB	MOTA TII	2E AMEND 4	M38510/00403BCB	MOTA TII	4C AMEND 6
M38510/00102BAC	FSC NSC	1B AMEND 3	M38510/00106CDB	NSC	1B AMEND 3	M38510/00202CAA	NSC	2E AMEND 4	M38510/00206BDA	none	2E AMEND 4	M38510/00403CAA	none	4C AMEND 6
M38510/00102BCA	NSC	1B AMEND 3	M38510/00107BAA	NSC	1B AMEND 3	M38510/00202CAB	NSC	2E AMEND 4	M38510/00206CAA	none	2E AMEND 4	M38510/00403CAB	none	4C AMEND 6
M38510/00102BCB	FSC MOTA NSC SIC TII	1B AMEND 3	M38510/00107BAA	NSC	1B AMEND 3	M38510/00202CAC	NSC	2E AMEND 4	M38510/00206CAB	FSC	2E AMEND 4	M38510/00403CCA	none	4C AMEND 6
M38510/00102BDA	NSC	1B AMEND 3	M38510/00107BAB	FSC MOTA	1B AMEND 3	M38510/00202CCA	NSC	2E AMEND 4	M38510/00206CBA	none	2E AMEND 4	M38510/00403CCB	none	4C AMEND 6
M38510/00102CAA	NSC	1B AMEND 3	M38510/00107BAC	FSC NSC	1B AMEND 3	M38510/00202CCB	NSC	2E AMEND 4	M38510/00206CDB	NSC	2E AMEND 4	M38510/00404BAA	none	4C AMEND 6
M38510/00102CAB	FSC	1B AMEND 3	M38510/00107BCA	NSC	1B AMEND 3	M38510/00202CDA	NSC	2E AMEND 4	M38510/00206CDB	NSC	2E AMEND 4	M38510/00404BAB	MOTA	4C AMEND 6
M38510/00102CAC	FSC NSC	1B AMEND 3	M38510/00107CBA	NSC	1B AMEND 3	M38510/00202CDB	NSC	2E AMEND 4	M38510/00207BAA	none	2E AMEND 4	M38510/00404BCA	none	4C AMEND 6
M38510/00102CCA	NSC	1B AMEND 3	M38510/00107CAB	FSC MOTA NSC TII	1B AMEND 3	M38510/00202CCA	NSC	2E AMEND 4	M38510/00207BAB	MOTA	2E AMEND 4	M38510/00404BCB	FSC MOTA SIC TII	4C AMEND 6
M38510/00102CCB	FSC NSC	1B AMEND 3	M38510/00107CAC	FSC NSC	1B AMEND 3	M38510/00202CCB	NSC	2E AMEND 4	M38510/00207BCA	none	2E AMEND 4	M38510/00404BDA	none	4C AMEND 6
M38510/00102CDA	NSC	1B AMEND 3	M38510/00107CBA	NSC	1B AMEND 3	M38510/00202CCB	NSC	2E AMEND 4	M38510/00207BCB	MOTA	2E AMEND 4	M38510/00404CAA	none	4C AMEND 6
M38510/00103BAA	NSC	1B AMEND 3	M38510/00107CDB	NSC	1B AMEND 3	M38510/00202CDA	NSC	2E AMEND 4	M38510/00207BCB	NSC	2E AMEND 4	M38510/00404CAB	none	4C AMEND 6
M38510/00103BAB	MOTA	1B AMEND 3	M38510/00107CDB	NSC	1B AMEND 3	M38510/00202CDB	NSC	2E AMEND 4	M38510/00207BCA	NSC	2E AMEND 4	M38510/00404CCA	none	4C AMEND 6
M38510/00103BAC	NSC	1B AMEND 3	M38510/00107CDB	NSC	1B AMEND 3	M38510/00202CDB	NSC	2E AMEND 4	M38510/00207BCB	NSC	2E AMEND 4	M38510/00404CCB	NSC	4C AMEND 6
M38510/00103BCA	NSC	1B AMEND 3	M38510/00107CDB	NSC	1B AMEND 3	M38510/00202CDB	NSC	2E AMEND 4	M38510/00207BCA	NSC	2E AMEND 4	M38510/00404CDB	NSC	4C AMEND 6
M38510/00103BCB	FSC MOTA NSC TII	1B AMEND 3	M38510/00107CDB	NSC	1B AMEND 3	M38510/00202CDB	NSC	2E AMEND 4	M38510/00207BCB	NSC	2E AMEND 4	M38510/00404CDB	NSC	4C AMEND 6
M38510/00103BDA	NSC	1B AMEND 3	M38510/00107CDB	NSC	1B AMEND 3	M38510/00202CDB	NSC	2E AMEND 4	M38510/00207BCA	NSC	2E AMEND 4	M38510/00404CDB	NSC	4C AMEND 6
M38510/00103CAA	NSC	1B AMEND 3	M38510/00107CDB	NSC	1B AMEND 3	M38510/00202CDB	NSC	2E AMEND 4	M38510/00207BCB	NSC	2E AMEND 4	M38510/00404CDB	NSC	4C AMEND 6
M38510/00103CAB	none	1B AMEND 3	M38510/00107CDB	NSC	1B AMEND 3	M38510/00202CDB	NSC	2E AMEND 4	M38510/00207BCA	NSC	2E AMEND 4	M38510/00404CDB	NSC	4C AMEND 6
M38510/00103CAC	NSC	1B AMEND 3	M38510/00107CDB	NSC	1B AMEND 3	M38510/00202CDB	NSC	2E AMEND 4	M38510/00207BCB	NSC	2E AMEND 4	M38510/00404CDB	NSC	4C AMEND 6
M38510/00103CCA	NSC	1B AMEND 3	M38510/00107CDB	NSC	1B AMEND 3	M38510/00202CDB	NSC	2E AMEND 4	M38510/00207BCA	NSC	2E AMEND 4	M38510/00404CDB	NSC	4C AMEND 6
M38510/00103CCB	FSC NSC	1B AMEND 3	M38510/00107CDB	NSC	1B AMEND 3	M38510/00202CDB	NSC	2E AMEND 4	M38510/00207BCB	NSC	2E AMEND 4	M38510/00404CDB	NSC	4C AMEND 6

28. TYPES WITH U.S. MILITARY SPECIFICATIONS

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	MIL-S-38510/	TYPE No.	MFRS	MIL-S-38510/	TYPE No.	MFRS	MIL-S-38510/	TYPE No.	MFRS	MIL-S-38510/	TYPE No.	MFRS	MIL-S-38510/
M38510/00501CAC	NSC	5A AMEND 6	M38510/00504CAB	none	5A AMEND 6	M38510/00604CCB	none	6C AMEND 1	M38510/01003CEB	none	10B AMEND 1	M38510/01203CFA	none	12E AMEND 2
M38510/00501CCA	NSC	5A AMEND 6	M38510/00504CAC	NSC	5A AMEND 6	M38510/00701BAA	none	7B AMEND 1	M38510/01003CFA	none	10B AMEND 1	M38510/01203CFB	none	12E AMEND 2
M38510/00501CCB	NSC	5A AMEND 6	M38510/00504CCA	NSC	5A AMEND 6	M38510/00701BAB	FSC	7B AMEND 1	M38510/01003CFB	none	10B AMEND 1	M38510/01204BAA	none	12E AMEND 2
M38510/00501CDA	NSC	5A AMEND 6	M38510/00504CCB	NSC	5A AMEND 6	M38510/00701BAC	MOTA	7B AMEND 1	M38510/01101BJA	NSC	11C	M38510/01204BAB	MOTA	12E AMEND 2
M38510/00502BAA	NSC	5A AMEND 6	M38510/00504CDA	NSC	5A AMEND 6	M38510/00701BCA	NSC	7B AMEND 1	M38510/01101BJB	NSC	11C	M38510/01204BCA	none	12E AMEND 2
M38510/00502BAB	MOTA	5A AMEND 6	M38510/00601BAA	none	6C AMEND 1	M38510/00701BCB	NSC	7B AMEND 1	M38510/01101BKB	MOTA	11C	M38510/01204BCB	MOTA	12E AMEND 2
M38510/00502BAC	NSC	5A AMEND 6	M38510/00601BAB	MOTA	6C AMEND 1	M38510/00701BCA	MOTA	7B AMEND 1	M38510/01101CJA	NSC	11C	M38510/01204CAA	none	12E AMEND 2
M38510/00502BCA	NSC	5A AMEND 6	M38510/00601BAC	none	6C AMEND 1	M38510/00701BDA	NSC	7B AMEND 1	M38510/01101CJB	NSC	11C	M38510/01204CAB	none	12E AMEND 2
M38510/00502BCB	MOTA	5A AMEND 6	M38510/00601BCB	MOTA	6C AMEND 1	M38510/00701BDB	NSC	7B AMEND 1	M38510/01101CKB	NSC	11C	M38510/01204CCA	none	12E AMEND 2
M38510/00502BDA	NSC	5A AMEND 6	M38510/00601CAA	none	6C AMEND 1	M38510/00701CAA	NSC	7B AMEND 1	M38510/01102BEA	NSC	11C	M38510/01204CCB	none	12E AMEND 2
M38510/00502CAA	NSC	5A AMEND 6	M38510/00601CAB	none	6C AMEND 1	M38510/00701CAB	FSC	7B AMEND 1	M38510/01102BFA	NSC	11C	M38510/01205BEA	none	12E AMEND 2
M38510/00502CAB	none	5A AMEND 6	M38510/00601CCA	none	6C AMEND 1	M38510/00701CAC	FSC	7B AMEND 1	M38510/01102BFB	MOTA	11C	M38510/01205BEB	MOTA	12E AMEND 2
M38510/00502CAC	NSC	5A AMEND 6	M38510/00601CCB	none	6C AMEND 1	M38510/00701CCA	NSC	7B AMEND 1	M38510/01102CEA	NSC	11C	M38510/01205BEB	none	12E AMEND 2
M38510/00502CCA	NSC	5A AMEND 6	M38510/00602BEA	none	6C AMEND 1	M38510/00701CCB	NSC	7B AMEND 1	M38510/01102CEB	NSC	11C	M38510/01205BFA	none	12E AMEND 2
M38510/00502CCB	NSC	5A AMEND 6	M38510/00602BEB	none	6C AMEND 1	M38510/00701CDB	NSC	7B AMEND 1	M38510/01102CFA	NSC	11C	M38510/01205BFB	MOTA	12E AMEND 2
M38510/00502CDA	NSC	5A AMEND 6	M38510/00602BFA	none	6C AMEND 1	M38510/00701CDB	NSC	7B AMEND 1	M38510/01201BAA	NSC	12E	M38510/01205CEA	none	12E AMEND 2
M38510/00503BAA	NSC	5A AMEND 6	M38510/00602BFB	MOTA	6C AMEND 1	M38510/01001BEA	none	10B AMEND 1	M38510/01201BAB	MOTA	12E	M38510/01205CEB	none	12E AMEND 2
M38510/00503BAB	MOTA	5A AMEND 6	M38510/00602BFC	NSC	6C AMEND 1	M38510/01001BEB	NSC	10B AMEND 1	M38510/01201BCA	NSC	12E	M38510/01205CFA	none	12E AMEND 2
M38510/00503BAC	NSC	5A AMEND 6	M38510/00602BFD	NSC	6C AMEND 1	M38510/01001BEB	MOTA	10B AMEND 1	M38510/01201BCB	MOTA	12E	M38510/01205CFB	none	12E AMEND 2
M38510/00503BCA	NSC	5A AMEND 6	M38510/00602BFE	NSC	6C AMEND 1	M38510/01001BFA	NSC	10B AMEND 1	M38510/01201BCD	NSC	12E	M38510/01301BAA	none	13C AMEND 3
M38510/00503BCB	MOTA	5A AMEND 6	M38510/00602BFF	NSC	6C AMEND 1	M38510/01001BFB	NSC	10B AMEND 1	M38510/01201BDB	SIC	12E	M38510/01301BAB	MOTA	13C AMEND 3
M38510/00503BDA	NSC	5A AMEND 6	M38510/00602BFG	NSC	6C AMEND 1	M38510/01001BFC	NSC	10B AMEND 1	M38510/01201BDC	NSC	12E	M38510/01301BAC	none	13C AMEND 3
M38510/00503CAA	NSC	5A AMEND 6	M38510/00602BFA	none	6C AMEND 1	M38510/01001BFD	NSC	10B AMEND 1	M38510/01201BDD	NSC	12E	M38510/01301BCA	none	13C AMEND 3
M38510/00503CAB	none	5A AMEND 6	M38510/00602BFB	none	6C AMEND 1	M38510/01001BFE	NSC	10B AMEND 1	M38510/01201BDE	NSC	12E	M38510/01301BCB	none	13C AMEND 3
M38510/00503CAC	NSC	5A AMEND 6	M38510/00602BFC	NSC	6C AMEND 1	M38510/01001BFF	NSC	10B AMEND 1	M38510/01201BDF	NSC	12E	M38510/01301BCD	none	13C AMEND 3
M38510/00503CCA	NSC	5A AMEND 6	M38510/00602BFD	NSC	6C AMEND 1	M38510/01001BFG	NSC	10B AMEND 1	M38510/01201BDG	NSC	12E	M38510/01301CAB	none	13C AMEND 3
M38510/00503CCB	NSC	5A AMEND 6	M38510/00602BFE	NSC	6C AMEND 1	M38510/01001BFA	NSC	10B AMEND 1	M38510/01201BDE	NSC	12E	M38510/01301CCA	none	13C AMEND 3
M38510/00503CDA	NSC	5A AMEND 6	M38510/00602BFF	NSC	6C AMEND 1	M38510/01001BFB	NSC	10B AMEND 1	M38510/01201BDF	NSC	12E	M38510/01301CCB	none	13C AMEND 3
M38510/00504BAA	NSC	5A AMEND 6	M38510/00602BFG	NSC	6C AMEND 1	M38510/01001BFC	NSC	10B AMEND 1	M38510/01201BDG	NSC	12E	M38510/01301CCD	none	13C AMEND 3
M38510/00504BAB	MOTA	5A AMEND 6	M38510/00602BFA	none	6C AMEND 1	M38510/01001BFD	NSC	10B AMEND 1	M38510/01201BDE	NSC	12E	M38510/01301CDB	none	13C AMEND 3
M38510/00504BAC	NSC	5A AMEND 6	M38510/00602BFB	none	6C AMEND 1	M38510/01001BFE	NSC	10B AMEND 1	M38510/01201BDG	NSC	12E	M38510/01302BAA	none	13C AMEND 3
M38510/00504BCA	NSC	5A AMEND 6	M38510/00602BFC	NSC	6C AMEND 1	M38510/01001BFF	NSC	10B AMEND 1	M38510/01201BDE	NSC	12E	M38510/01302BAB	MOTA	13C AMEND 3
M38510/00504BCB	MOTA	5A AMEND 6	M38510/00602BFD	NSC	6C AMEND 1	M38510/01001BFG	NSC	10B AMEND 1	M38510/01201BDF	NSC	12E	M38510/01302BAC	none	13C AMEND 3
M38510/00504BDA	NSC	5A AMEND 6	M38510/00602BFE	NSC	6C AMEND 1	M38510/01001BFA	NSC	10B AMEND 1	M38510/01201BDE	NSC	12E	M38510/01302BAC	none	13C AMEND 3
M38510/00504BDB	NSC	5A AMEND 6	M38510/00602BFF	NSC	6C AMEND 1	M38510/01001BFB	NSC	10B AMEND 1	M38510/01201BDF	NSC	12E	M38510/01302BAB	MOTA	13C AMEND 3
M38510/00504CAA	NSC	5A AMEND 6	M38510/00602BFG	NSC	6C AMEND 1	M38510/01001BFC	NSC	10B AMEND 1	M38510/01201BDG	NSC	12E	M38510/01302BAC	none	13C AMEND 3
M38510/00504CAB	NSC	5A AMEND 6	M38510/00602BFA	none	6C AMEND 1	M38510/01001BFD	NSC	10B AMEND 1	M38510/01201BDE	NSC	12E	M38510/01302BBD	none	13C AMEND 3
M38510/00504CAC	NSC	5A AMEND 6	M38510/00602BFB	none	6C AMEND 1	M38510/01001BFE	NSC	10B AMEND 1	M38510/01201BDF	NSC	12E	M38510/01302CBA	none	13C AMEND 3

28. TYPES WITH U.S. MILITARY SPECIFICATIONS

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	MIL-S-38510/	TYPE No.	MFRS	MIL-S-38510/	TYPE No.	MFRS	MIL-S-38510/	TYPE No.	MFRS	MIL-S-38510/	TYPE No.	MFRS	MIL-S-38510/
M38510/02002CCB	NSC	20A AMEND 2	M38510/02101CCA	NSC	21C AMEND 2	M38510/02104CAA	NSC	21C AMEND 2	M38510/02202CAA	none	AMEND 1	M38510/02206BCB	MOTA	22B AMEND 1
M38510/02002CDA	NSC	20A AMEND 2	M38510/02101CCB	NSC	21C AMEND 2	M38510/02104CAC	NSC	21C AMEND 2	M38510/02202CAB	none	22B AMEND 1	M38510/02206BDA	SIC	22B AMEND 1
M38510/02002CDB	NSC	20A AMEND 2	M38510/02101CDA	NSC	21C AMEND 2	M38510/02104CCA	NSC	21C AMEND 2	M38510/02202CCA	none	22B AMEND 1	M38510/02206BDB	SIC	22B AMEND 1
M38510/02003BAA	NSC	20A AMEND 2	M38510/02101CDB	NSC	21C AMEND 2	M38510/02104CCB	NSC	21C AMEND 2	M38510/02202CCB	none	22B AMEND 1	M38510/02206CAA	none	22B AMEND 1
M38510/02003BAC	NSC	20A AMEND 2	M38510/02102BAA	NSC	21C AMEND 2	M38510/02104CDA	NSC	21C AMEND 2	M38510/02202CDA	none	22B AMEND 1	M38510/02206CAB	none	22B AMEND 1
M38510/02003BCA	NSC	20A AMEND 2	M38510/02102BAC	NSC	21C AMEND 2	M38510/02104CDB	NSC	21C AMEND 2	M38510/02202CDB	none	22B AMEND 1	M38510/02206CCA	SIC	22B AMEND 1
M38510/02003BCB	NSC	20A AMEND 2	M38510/02102BCA	NSC	21C AMEND 2	M38510/02105BAA	NSC	21C AMEND 2	M38510/02203BCA	none	22B AMEND 1	M38510/02206CCB	SIC	22B AMEND 1
M38510/02003BDA	NSC	20A AMEND 2	M38510/02102BCB	NSC	21C AMEND 2	M38510/02105BAC	NSC	21C AMEND 2	M38510/02203BCB	none	22B AMEND 1	M38510/02206CDA	SIC	22A AMEND 1
M38510/02003BDB	NSC	20A AMEND 2	M38510/02102BDA	NSC	21C AMEND 2	M38510/02105BCA	NSC	21C AMEND 2	M38510/02203BDA	none	22B AMEND 1	M38510/02206CDB	SIC	22B AMEND 1
M38510/02003CAA	NSC	20A AMEND 2	M38510/02102BDB	NSC	21C AMEND 2	M38510/02105BCB	NSC	21C AMEND 2	M38510/02203BDB	none	22B AMEND 1	M38510/02301BAA	none	23A AMEND 4
M38510/02003CAC	NSC	20A AMEND 2	M38510/02102CCA	NSC	21C AMEND 2	M38510/02105BDA	NSC	21C AMEND 2	M38510/02203CCA	none	22B AMEND 1	M38510/02301BAB	FSC	23A AMEND 4
M38510/02003CCA	NSC	20A AMEND 2	M38510/02102CAC	NSC	21C AMEND 2	M38510/02105BDB	NSC	21C AMEND 2	M38510/02203CCB	none	22B AMEND 1	M38510/02301BAC	FSC	23A AMEND 4
M38510/02003CCB	NSC	20A AMEND 2	M38510/02102CCA	NSC	21C AMEND 2	M38510/02105CDB	NSC	21C AMEND 2	M38510/02203CDA	SIC	22B AMEND 1	M38510/02301BCA	none	23A AMEND 4
M38510/02003CDA	NSC	20A AMEND 2	M38510/02102CCB	NSC	21C AMEND 2	M38510/02105CAA	NSC	21C AMEND 2	M38510/02203CDB	SIC	22B AMEND 1	M38510/02301BCB	FSC	23A AMEND 4
M38510/02003CDB	NSC	20A AMEND 2	M38510/02102CDB	NSC	21C AMEND 2	M38510/02105CAC	NSC	21C AMEND 2	M38510/02204BEA	none	22B AMEND 1	M38510/02301BDA	none	23A AMEND 4
M38510/02004BAA	NSC	20A AMEND 2	M38510/02102CDA	NSC	21C AMEND 2	M38510/02105CCA	NSC	21C AMEND 2	M38510/02204BEB	TII	22B AMEND 1	M38510/02301CAA	none	23A AMEND 4
M38510/02004BAC	NSC	20A AMEND 2	M38510/02102CDB	NSC	21C AMEND 2	M38510/02105CCB	NSC	21C AMEND 2	M38510/02204BFA	none	22B AMEND 1	M38510/02301CAB	FSC	23A AMEND 4
M38510/02004BCA	NSC	20A AMEND 2	M38510/02103BAA	NSC	21C AMEND 2	M38510/02105CDA	NSC	21C AMEND 2	M38510/02204BFB	none	22B AMEND 1	M38510/02301CAC	FSC	23A AMEND 4
M38510/02004BCB	NSC	20A AMEND 2	M38510/02103BAC	NSC	21C AMEND 2	M38510/02105CDB	NSC	21C AMEND 2	M38510/02204CEA	none	22B AMEND 1	M38510/02301CCA	none	23A AMEND 4
M38510/02004BDA	NSC	20A AMEND 2	M38510/02103BCA	NSC	21C AMEND 2	M38510/02201BAA	none	22B AMEND 1	M38510/02204CEB	none	22B AMEND 1	M38510/02301CCB	FSC	23A AMEND 4
M38510/02004BDB	NSC	20A AMEND 2	M38510/02103BCB	NSC	21C AMEND 2	M38510/02201BAB	MOTA	22B AMEND 1	M38510/02204CFA	none	22B AMEND 1	M38510/02301CDA	none	23A AMEND 4
M38510/02004CAA	NSC	20A AMEND 2	M38510/02103BDA	NSC	21C AMEND 2	M38510/02201BCA	none	22B AMEND 1	M38510/02204CFB	none	22B AMEND 1	M38510/02302BAA	none	23A AMEND 4
M38510/02004CAC	NSC	20A AMEND 2	M38510/02103BDB	NSC	21C AMEND 2	M38510/02201BCB	MOTA	22B AMEND 1	M38510/02205BAA	none	22B AMEND 1	M38510/02302BAB	MOTA	23A AMEND 4
M38510/02004CCA	NSC	20A AMEND 2	M38510/02103CBA	NSC	21C AMEND 2	M38510/02201BDA	none	22B AMEND 1	M38510/02205BAB	MOTA	22B AMEND 1	M38510/02302BCA	none	23A AMEND 4
M38510/02004CCB	NSC	20A AMEND 2	M38510/02103CBC	NSC	21C AMEND 2	M38510/02201BDB	none	22B AMEND 1	M38510/02205BCA	none	22B AMEND 1	M38510/02302BCB	FSC	23A AMEND 4
M38510/02004CDA	NSC	20A AMEND 2	M38510/02103CDB	NSC	21C AMEND 2	M38510/02201CAA	none	22B AMEND 1	M38510/02205BCB	MOTA	22B AMEND 1	M38510/02302BDA	none	23A AMEND 4
M38510/02004CDB	NSC	20A AMEND 2	M38510/02103CCA	NSC	21C AMEND 2	M38510/02201CAB	none	22B AMEND 1	M38510/02205BDA	none	22B AMEND 1	M38510/02302BDB	none	23A AMEND 4
M38510/02006BCB	NSC	20A AMEND 2	M38510/02103CCB	NSC	21C AMEND 2	M38510/02201CCA	none	22B AMEND 1	M38510/02205BDB	none	22B AMEND 1	M38510/02302CAA	none	23A AMEND 4
M38510/02006CCB	NSC	20A AMEND 2	M38510/02103CDA	NSC	21C AMEND 2	M38510/02201CCB	none	22B AMEND 1	M38510/02205CAA	none	22B AMEND 1	M38510/02302CAB	none	23A AMEND 4
M38510/02101BAA	NSC	21C AMEND 2	M38510/02103CDB	NSC	21C AMEND 2	M38510/02201CDA	none	22B AMEND 1	M38510/02205CAB	none	22B AMEND 1	M38510/02302CCA	none	23A AMEND 4
M38510/02101BAC	NSC	21C AMEND 2	M38510/02104BAA	NSC	21C AMEND 2	M38510/02201CDB	none	22B AMEND 1	M38510/02205CCA	SIC	22B AMEND 1	M38510/02302CCB	FSC	23A AMEND 4
M38510/02101BCA	NSC	21C AMEND 2	M38510/02104BAC	NSC	21C AMEND 2	M38510/02202BAA	none	22B AMEND 1	M38510/02205CCB	SIC	22B AMEND 1	M38510/02302CDA	none	23A AMEND 4
M38510/02101BCB	NSC	21C AMEND 2	M38510/02104BAC	NSC	21C AMEND 2	M38510/02202BAB	MOTA	22B AMEND 1	M38510/02205CDA	SIC	22B AMEND 1	M38510/02302CDB	none	23A AMEND 4
M38510/02101BDA	NSC	21C AMEND 2	M38510/02104BCA	NSC	21C AMEND 2	M38510/02202BDB	none	22B AMEND 1	M38510/02205CDB	SIC	22B AMEND 1	M38510/02303BAA	none	23A AMEND 4
M38510/02101BDB	NSC	21C AMEND 2	M38510/02104BCB	NSC	21C AMEND 2	M38510/02202BCB	MOTA	22B AMEND 1	M38510/02206BAA	none	22B AMEND 1	M38510/02303BAB	MOTA	23A AMEND 4
M38510/02101CAA	NSC	21C AMEND 2	M38510/02104BDA	NSC	21C AMEND 2	M38510/02202BDB	none	22B AMEND 1	M38510/02206BAB	MOTA	22B AMEND 1	M38510/02303BCA	none	23A AMEND 4
M38510/02101CAC	NSC	21C AMEND 2	M38510/02104BDB	NSC	21C AMEND 2	M38510/02202BDB	none	22B AMEND 1	M38510/02206BCA	SIC	22B AMEND 1			

28. TYPES WITH U.S. MILITARY SPECIFICATIONS

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	MIL-S-38510/	TYPE No.	MFRS	MIL-S-38510/	TYPE No.	MFRS	MIL-S-38510/	TYPE No.	MFRS	MIL-S-38510/	TYPE No.	MFRS	MIL-S-38510/
M38510/05002BCB	MOTA NSC RCA SSS	50C AMEND 1	M38510/05202BAC	NSC	52B	M38510/05401CFA	RCA	54B 2	M38510/06001BEB	MOTA	AMEND 3	M38510/07001BDB	SIC	70 AMEND 5
M38510/05002BCC	SSS	50C AMEND 1	M38510/05202BCA	NSC SSS	52B	M38510/05601BEA	RCA SSS	56C AMEND 2	M38510/06001CEA	none	USAF AMEND 60	M38510/07001CAB	FSC	USAF AMEND 5
M38510/05002BDA	RCA	50C AMEND 1	M38510/05202BCB	MOTA NSC RCA SSS	52B	M38510/05601BEB	RCA SSS	56C AMEND 2	M38510/06001CEB	none	USAF AMEND 60	M38510/07001CAC	FSC	USAF AMEND 5
M38510/05002CAA	NSC	50C AMEND 1	M38510/05202BCC	SSS	52B	M38510/05601BFA	RCA	56C AMEND 2	M38510/06002BEA	none	USAF AMEND 60	M38510/07001CCA	none	USAF AMEND 5
M38510/05002CAC	NSC	50C AMEND 1	M38510/05202BDA	RCA	52B	M38510/05601CEA	none	56C AMEND 2	M38510/06002BEB	MOTA	USAF AMEND 60	M38510/07001CCB	FSC	USAF AMEND 5
M38510/05002CCB	NSC RCA	50C AMEND 1	M38510/05202CAC	NSC	52B	M38510/05601CEB	RCA	56C AMEND 2	M38510/06002CEA	none	USAF AMEND 60	M38510/07001CDB	none	USAF AMEND 5
M38510/05002CDA	RCA	50C AMEND 1	M38510/05202CCB	NSC RCA	52B	M38510/05601CEC	none	56C AMEND 2	M38510/06002CEB	none	USAF AMEND 60	M38510/07001CDB	none	USAF AMEND 5
M38510/05003BAA	NSC	50C AMEND 1	M38510/05202CDA	RCA	52B	M38510/05601CFA	RCA	56C AMEND 2	M38510/06002CEC	none	USAF AMEND 60	M38510/07002BCA	none	USAF AMEND 5
M38510/05003BAC	NSC	50C AMEND 1	M38510/05203BAA	NSC	52B	M38510/05601CFB	RCA	56C AMEND 2	M38510/06003BEA	none	USAF AMEND 60	M38510/07002BCB	none	USAF AMEND 5
M38510/05003BAC	NSC	50C AMEND 1	M38510/05203BAC	NSC	52B	M38510/05602BEB	RCA	56C AMEND 2	M38510/06003BEB	MOTA	USAF AMEND 60	M38510/07002BCB	none	USAF AMEND 5
M38510/05003BCA	NSC SSS	50C AMEND 1	M38510/05203BCA	NSC SSS	52B	M38510/05602BFA	RCA	56C AMEND 2	M38510/06003CEA	none	USAF AMEND 60	M38510/07002CCA	none	USAF AMEND 5
M38510/05003BCB	NSC RCA SSS	50C AMEND 1	M38510/05203BCB	NSC RCA SSS	52B	M38510/05602CFB	RCA	56C AMEND 2	M38510/06003CEB	none	USAF AMEND 60	M38510/07002CDB	none	USAF AMEND 5
M38510/05003BCC	SSS	50C AMEND 1	M38510/05203BCC	SSS	52B	M38510/05602CFA	RCA	56C AMEND 2	M38510/06003CEC	none	USAF AMEND 60	M38510/07002CDB	none	USAF AMEND 5
M38510/05003BDA	RCA	50C AMEND 1	M38510/05203BDA	RCA	52B	M38510/05603BEB	RCA	56C AMEND 2	M38510/06004BEA	none	USAF AMEND 60	M38510/07002CDB	none	USAF AMEND 5
M38510/05003CAA	NSC	50C AMEND 1	M38510/05203CAA	NSC	52B	M38510/05603BFB	RCA	56C AMEND 2	M38510/06004BEB	MOTA	USAF AMEND 60	M38510/07002CDB	none	USAF AMEND 5
M38510/05003CAC	NSC	50C AMEND 1	M38510/05203CAC	NSC	52B	M38510/05603CFA	RCA	56C AMEND 2	M38510/06004BEB	none	USAF AMEND 60	M38510/07002CDB	none	USAF AMEND 5
M38510/05003CCB	NSC RCA	50C AMEND 1	M38510/05203CDA	RCA	52B	M38510/05603CFB	RCA	56C AMEND 2	M38510/06004BEB	none	USAF AMEND 60	M38510/07002CDB	none	USAF AMEND 5
M38510/05003CDA	RCA	50C AMEND 1	M38510/05204BAC	NSC	52B	M38510/05604BEA	SSS	56C AMEND 2	M38510/06004CEA	none	USAF AMEND 60	M38510/07002CDB	none	USAF AMEND 5
M38510/05101BAC	NSC	51C AMEND 3	M38510/05204BCB	NSC RCA SSS	52B	M38510/05604BEB	RCA SSS	56C AMEND 2	M38510/06004CEB	none	USAF AMEND 60	M38510/07002CDB	none	USAF AMEND 5
M38510/05101BCA	NSC SSS	51C AMEND 3	M38510/05204BCC	SSS	52B	M38510/05604BEC	SSS	56C AMEND 2	M38510/06004CEC	none	USAF AMEND 60	M38510/07002CDB	none	USAF AMEND 5
M38510/05101BCB	NSC RCA SSS	51C AMEND 3	M38510/05204BDA	RCA	52B	M38510/05604BFA	RCA	56C AMEND 2	M38510/06005BEA	none	USAF AMEND 60	M38510/07005BAB	FSC	USAF AMEND 5
M38510/05101BCC	SSS	51C AMEND 3	M38510/05204CAC	NSC	52B	M38510/05604BFB	RCA	56C AMEND 2	M38510/06005BEB	MOTA	USAF AMEND 60	M38510/07005BAC	FSC	USAF AMEND 5
M38510/05101BDA	RCA	51C AMEND 3	M38510/05204CCB	NSC RCA	52B	M38510/05604CEA	none	56C AMEND 2	M38510/06005CEA	none	USAF AMEND 60	M38510/07005BAC	none	USAF AMEND 5
M38510/05101CAC	NSC	51C AMEND 3	M38510/05204CDA	RCA	52B	M38510/05604CEB	RCA	56C AMEND 2	M38510/06005CEB	none	USAF AMEND 60	M38510/07005BCA	none	USAF AMEND 5
M38510/05101CCB	NSC RCA	51C AMEND 3	M38510/05302BEA	SSS	53B AMEND 2	M38510/05604CEC	none	56C AMEND 2	M38510/06005CEC	none	USAF AMEND 60	M38510/07005BCB	FSC SIC	USAF AMEND 5
M38510/05101CDA	RCA	51C AMEND 3	M38510/05302BEB	NSC RCA	53B AMEND 2	M38510/05604CFA	RCA	56C AMEND 2	M38510/06006BEA	none	USAF AMEND 60	M38510/07005BDB	none	USAF AMEND 5
M38510/05102BEA	SSS	51C AMEND 3	M38510/05302BEC	SSS	53B AMEND 2	M38510/05604CFB	RCA	56C AMEND 2	M38510/06006BEB	MOTA	USAF AMEND 60	M38510/07005BDB	SIC	USAF AMEND 5
M38510/05102BEB	NSC RCA SSS	51B AMEND 2	M38510/05302BFA	RCA	53B AMEND 2	M38510/05605BCA	SSS	56C AMEND 2	M38510/06006CEA	none	USAF AMEND 60	M38510/07005CAB	FSC	USAF AMEND 5
M38510/05102BEC	SSS	51C AMEND 3	M38510/05302CBA	NSC SSS	53B AMEND 2	M38510/05605BCB	RCA SSS	56C AMEND 2	M38510/06006CEB	none	USAF AMEND 60	M38510/07005CAC	FSC	USAF AMEND 5
M38510/05102BFA	RCA	51C AMEND 3	M38510/05302CEB	NSC RCA	53B AMEND 2	M38510/05605BCC	SSS	56C AMEND 2	M38510/06006CEC	none	USAF AMEND 60	M38510/07005CAC	FSC	USAF AMEND 5
M38510/05102CEB	NSC RCA	51C AMEND 3	M38510/05302CEC	NSC RCA	53B AMEND 2	M38510/05605BDA	RCA	56C AMEND 2	M38510/07001BAB	FSC	USAF AMEND 70	M38510/07005CCA	none	USAF AMEND 5
M38510/05102CFA	RCA	51C AMEND 3	M38510/05302CFA	NSC SSS	53B AMEND 2	M38510/05605CCA	none	56C AMEND 2	M38510/07001BAC	FSC	USAF AMEND 70	M38510/07005CCB	FSC	USAF AMEND 5
M38510/05201BCA	RCA SSS	52B	M38510/05302BFA	RCA	53B AMEND 2	M38510/05605CCB	RCA	56C AMEND 2	M38510/07001BAC	FSC	USAF AMEND 70	M38510/07005CCB	FSC	USAF AMEND 5
M38510/05201BCB	RCA SSS	52B	M38510/05302CBA	NSC SSS	53B AMEND 2	M38510/05605CCC	none	56C AMEND 2	M38510/07001BCA	SIC	USAF AMEND 70	M38510/07005CDA	none	USAF AMEND 5
M38510/05201BCC	SSS	52B	M38510/05401BEA	SSS	54B 2	M38510/05605CDA	RCA	56C AMEND 2	M38510/07001BCB	FSC SIC	USAF AMEND 70	M38510/07005CDB	none	USAF AMEND 5
M38510/05201CCB	RCA	52B	M38510/05401BEB	RCA SSS	54B 2	M38510/06001BEA	none	60 AMEND 3	M38510/07001BDB	none	USAF AMEND 70	M38510/07006BAB	FSC	USAF AMEND 5
M38510/05202ACA	RCA	52A AMEND 3	M38510/05401BEC	SSS	54B 2									
M38510/05202BAA	NSC	52B	M38510/05401BFA	RCA	54B 2									
			M38510/05401CEB	RCA	54B 2									

28. TYPES WITH U.S. MILITARY SPECIFICATIONS

IN TYPE NUMBER
SEQUENCE

TYPE No.	MFRS	MIL-S-38510/	TYPE No.	MFRS	MIL-S-38510/	TYPE No.	MFRS	MIL-S-38510/	TYPE No.	MFRS	MIL-S-38510/	TYPE No.	MFRS	MIL-S-38510/
M38510/07006BAC	FSC	70 AMEND 5	M38510/07009BEB	FSC SIC	70 AMEND 5	M38510/07105CEB	AMD FSC	71A AMEND 2	M38510/07501BCB	SIC	75 AMEND 2	M38510/08002CDA	none	80A AMEND 2
M38510/07006BCA	none	70 USAF 70 AMEND 5	M38510/07009BFA	none	70 USAF 70 AMEND 5	M38510/07105CFB	AMD	71A AMEND 2	M38510/07501BDA	none	75 AMEND 2	M38510/08002CDB	none	80A AMEND 2
M38510/07006BCB	FSC	70 USAF 70 AMEND 5	M38510/07009BFB	FSC SIC	70 USAF 70 AMEND 5	M38510/07301BCA	none	73 USAF 73 AMEND 2	M38510/07501BDB	SIC	75 AMEND 2	M38510/08003BAB	FSC	80A AMEND 2
M38510/07006BDA	none	70 USAF 70 AMEND 5	M38510/07009CEA	none	70 USAF 70 AMEND 5	M38510/07301BCB	SIC	73 USAF 73 AMEND 2	M38510/07501CCA	none	75 AMEND 2	M38510/08003BAC	FSC	80A AMEND 2
M38510/07006BDB	none	70 USAF 70 AMEND 5	M38510/07009CEB	FSC	70 USAF 70 AMEND 5	M38510/07301BDA	none	73 USAF 73 AMEND 2	M38510/07501CCB	none	75 AMEND 2	M38510/08003BCA	none	80A AMEND 2
M38510/07006CAB	FSC	70 USAF 70 AMEND 5	M38510/07009CFA	none	70 USAF 70 AMEND 5	M38510/07301BDB	SIC	73 USAF 73 AMEND 2	M38510/07501CDA	none	75 AMEND 2	M38510/08003BCB	FSC SIC	80A AMEND 2
M38510/07006CAC	FSC	70 USAF 70 AMEND 5	M38510/07009CFB	FSC	70 USAF 70 AMEND 5	M38510/07301CCA	none	73 USAF 73 AMEND 2	M38510/07501CDB	none	75 AMEND 2	M38510/08003BCD	FSC SIC	80A AMEND 2
M38510/07006CCA	none	70 USAF 70 AMEND 5	M38510/07010BEA	none	70 USAF 70 AMEND 5	M38510/07301CCB	none	73 USAF 73 AMEND 2	M38510/07801BJB	SIC	78 AMEND 2	M38510/08003BDA	none	80A AMEND 2
M38510/07006CCB	FSC	70 USAF 70 AMEND 5	M38510/07010BEB	none	70 USAF 70 AMEND 5	M38510/07301CDA	none	73 USAF 73 AMEND 2	M38510/07801CJB	none	78 AMEND 2	M38510/08003BDB	SIC	80A AMEND 2
M38510/07006CDA	none	70 USAF 70 AMEND 5	M38510/07010BFA	none	70 USAF 70 AMEND 5	M38510/07301CDB	none	73 USAF 73 AMEND 2	M38510/08001BAB	FSC	80A AMEND 2	M38510/08003CAB	FSC	80A AMEND 2
M38510/07006CDB	none	70 USAF 70 AMEND 5	M38510/07010BFB	none	70 USAF 70 AMEND 5	M38510/07401BCA	none	74 USAF 74 AMEND 3	M38510/08001BAC	FSC	80A AMEND 2	M38510/08003CAC	FSC	80A AMEND 2
M38510/07007BCA	none	70 USAF 70 AMEND 5	M38510/07010CEA	SIC	70 USAF 70 AMEND 5	M38510/07401BCB	SIC	74 USAF 74 AMEND 3	M38510/08001BCA	none	80A AMEND 2	M38510/08003CBA	none	80A AMEND 2
M38510/07007BCB	none	70 USAF 70 AMEND 5	M38510/07010CEB	none	70 USAF 70 AMEND 5	M38510/07401BDA	none	74 USAF 74 AMEND 3	M38510/08001BCB	SIC	80A AMEND 2	M38510/08003CBB	FSC	80A AMEND 2
M38510/07007BDA	none	70 USAF 70 AMEND 5	M38510/07010CFA	none	70 USAF 70 AMEND 5	M38510/07401BDB	SIC	74 USAF 74 AMEND 3	M38510/08001BDA	none	80A AMEND 2	M38510/08003CDB	none	80A AMEND 2
M38510/07007BDB	none	70 USAF 70 AMEND 5	M38510/07010CFB	none	70 USAF 70 AMEND 5	M38510/07401CCA	none	74 USAF 74 AMEND 3	M38510/08001BDB	SIC	80A AMEND 2	M38510/08003CDB	none	80A AMEND 2
M38510/07007CCA	none	70 USAF 70 AMEND 5	M38510/07101BAB	FSC	70 USAF 70 AMEND 5	M38510/07401CCB	none	74 USAF 74 AMEND 3	M38510/08001BCA	FSC	80A AMEND 2	M38510/08003CDB	none	80A AMEND 2
M38510/07007CCB	none	70 USAF 70 AMEND 5	M38510/07101BCA	none	70 USAF 70 AMEND 5	M38510/07401CDA	none	74 USAF 74 AMEND 3	M38510/08001BCB	FSC	80A AMEND 2	M38510/08003CDB	none	80A AMEND 2
M38510/07007CDA	none	70 USAF 70 AMEND 5	M38510/07101BCB	FSC	70 USAF 70 AMEND 5	M38510/07401CDB	none	74 USAF 74 AMEND 3	M38510/08001BCA	FSC	80A AMEND 2	M38510/08201BEA	none	82 USAF 82 AMEND 1
M38510/07007CDB	none	70 USAF 70 AMEND 5	M38510/07101BCD	SIC	70 USAF 70 AMEND 5	M38510/07402BCA	none	74 USAF 74 AMEND 3	M38510/08001CCA	none	80A AMEND 2	M38510/08201BEB	SIC	82 USAF 82 AMEND 1
M38510/07008BAB	FSC	70 USAF 70 AMEND 5	M38510/07101BDA	SIC	70 USAF 70 AMEND 5	M38510/07402BCB	SIC	74 USAF 74 AMEND 3	M38510/08001CCB	none	80A AMEND 2	M38510/08201BEB	SIC	82 USAF 82 AMEND 1
M38510/07008BAC	FSC	70 USAF 70 AMEND 5	M38510/07101CAB	FSC	70 USAF 70 AMEND 5	M38510/07402BDA	none	74 USAF 74 AMEND 3	M38510/08001CDA	none	80A AMEND 2	M38510/08201CEA	none	82 USAF 82 AMEND 1
M38510/07008BCB	FSC	70 USAF 70 AMEND 5	M38510/07101CCA	none	70 USAF 70 AMEND 5	M38510/07402BDB	SIC	74 USAF 74 AMEND 3	M38510/08001CDB	none	80A AMEND 2	M38510/08201CEB	none	82 USAF 82 AMEND 1
M38510/07008CAB	FSC	70 USAF 70 AMEND 5	M38510/07101CCB	FSC	70 USAF 70 AMEND 5	M38510/07402CCA	none	74 USAF 74 AMEND 3	M38510/08002BCA	none	80A AMEND 2	M38510/10901BCB	SIC	109 USAF 109 AMEND 1
M38510/07008CAB	FSC	70 USAF 70 AMEND 5	M38510/07101CCD	FSC	70 USAF 70 AMEND 5	M38510/07402CCB	none	74 USAF 74 AMEND 3	M38510/08002BCB	none	80A AMEND 2	M38510/10901BGC	SIC	109 USAF 109 AMEND 1
M38510/07008CAC	FSC	70 USAF 70 AMEND 5	M38510/07101CDA	SIC	70 USAF 70 AMEND 5	M38510/07402CCD	none	74 USAF 74 AMEND 3	M38510/08002BDA	none	80A AMEND 2	M38510/10901BPB	SIC	109 USAF 109 AMEND 1
M38510/07008CCB	FSC	70 USAF 70 AMEND 5	M38510/07105BEB	AMD FSC	70 USAF 70 AMEND 5	M38510/07402CDA	none	74 USAF 74 AMEND 3	M38510/08002BDB	none	80A AMEND 2	M38510/10901CCB	SIC	109 USAF 109 AMEND 1
M38510/07009BEA	none	70 USAF 70 AMEND 5	M38510/07105BFB	AMD	70 USAF 70 AMEND 5	M38510/07501BCA	none	75 USAF 75 AMEND 2	M38510/08002CCA	none	80A AMEND 2	M38510/10901CPB	SIC	109 USAF 109 AMEND 1
									M38510/08002CCB	none	80A AMEND 2	M38510/10902BCB	SIC	109 USAF 109 AMEND 1
												M38510/10902CCB	SIC	109 USAF 109 AMEND 1

28. TYPES WITH U.S. MILITARY SPECIFICATIONS

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	MIL-S-38510/	TYPE No.	MFRS	MIL-S-38510/	TYPE No.	MFRS	MIL-S-38510/	TYPE No.	MFRS	MIL-S-38510/	TYPE No.	MFRS	MIL-S-38510/
M38510/15001BEA	SIC	150B AMEND 2	M38510/15502BCA	none	155A USAF	M38510/30001BDB (cont.)	NSC SIC TII	300B USAF	M38510/30008CCB	NSC	300B USAF	M38510/30102CDA	none	301A AMEND 3
M38510/15001BEB	MOTA SIC	150B AMEND 2	M38510/15502BCB	MOTA	155A USAF	M38510/30001CAA	none	300B USAF	M38510/30008CDA	none	300B USAF	M38510/30103BEA	none	301A AMEND 3
M38510/15001BFA	SIC	150B AMEND 2	M38510/15502CCB	none	155A USAF	M38510/30001CAB	FSC	300B USAF	M38510/30009BAA	none	300B USAF	M38510/30103BEB	SIC TII	301A AMEND 3
M38510/15001BFB	MOTA SIC	150B AMEND 2	M38510/15503BCA	none	155A USAF	M38510/30001CAC	FSC	300B USAF	M38510/30009BAB	FSC	300B USAF	M38510/30103BFA	none	301A AMEND 3
M38510/15001CEA	none	150B AMEND 2	M38510/15503BCB	MOTA	155A USAF	M38510/30001CCA	NSC	300B USAF	M38510/30009BAC	FSC	300B USAF	M38510/30103CEA	none	301A AMEND 3
M38510/15001CEB	none	150B AMEND 2	M38510/15503CCA	none	155A USAF	M38510/30001CDA	NSC	300B USAF	M38510/30009BCA	NSC	300B USAF	M38510/30103CEB	none	301A AMEND 3
M38510/15001CFA	none	150B AMEND 2	M38510/15503CCB	none	155A USAF	M38510/30001CDB	NSC	300B USAF	M38510/30009BCB	FSC MOTA NSC	300B USAF	M38510/30103CFA	none	301A AMEND 3
M38510/15001CFB	none	150B AMEND 2	M38510/15504BAA	none	155A USAF	M38510/30002BAA	none	300B USAF	M38510/30009BDA	NSC	300B USAF	M38510/30103CFB	none	301A AMEND 3
M38510/15202BEA	none	152 AMEND 2	M38510/15504BAB	MOTA	155A USAF	M38510/30002BAB	none	300B USAF	M38510/30009BDB	MOTA NSC	300B USAF	M38510/30103CFA	none	301A AMEND 3
M38510/15202BEB	MOTA	152 AMEND 2	M38510/15504CAA	none	155A USAF	M38510/30002BCA	none	300B USAF	M38510/30009CAA	none	300B USAF	M38510/30103CFB	none	301A AMEND 3
M38510/15202BFA	none	152 AMEND 2	M38510/16101BCA	none	161 AMEND 1	M38510/30002BCB	MOTA TII	300B USAF	M38510/30009CAB	FSC	300B USAF	M38510/30103CFA	none	301A AMEND 3
M38510/15202BFB	MOTA	152 AMEND 2	M38510/16101BCB	SIC	161 AMEND 1	M38510/30002BDA	none	300B USAF	M38510/30009CAC	FSC	300B USAF	M38510/30103CFB	none	301A AMEND 3
M38510/15202CEA	none	152 AMEND 2	M38510/16101BDB	SIC	161 AMEND 1	M38510/30002CAB	none	300B USAF	M38510/30009CCA	NSC	300B USAF	M38510/30103CFA	none	301A AMEND 3
M38510/15202CEB	none	152 AMEND 2	M38510/16101BDA	none	161 AMEND 1	M38510/30002CCA	none	300B USAF	M38510/30009CCB	FSC NSC	300B USAF	M38510/30103CFB	none	301A AMEND 3
M38510/15202CFA	none	152 AMEND 2	M38510/16101BDB	SIC	161 AMEND 1	M38510/30002CDB	none	300B USAF	M38510/30009CDA	NSC	300B USAF	M38510/30103CFA	none	301A AMEND 3
M38510/15202CFB	none	152 AMEND 2	M38510/16101BDA	none	161 AMEND 1	M38510/30002CDA	none	300B USAF	M38510/30009CDB	NSC	300B USAF	M38510/30103CFB	none	301A AMEND 3
M38510/15203BEA	none	152 AMEND 2	M38510/16101BDB	SIC	161 AMEND 1	M38510/30005BAA	none	300B USAF	M38510/30101BCA	none	301A AMEND 3	M38510/30104BAC	FSC	301A AMEND 3
M38510/15203BEB	MOTA	152 AMEND 2	M38510/16101CCA	none	161 AMEND 1	M38510/30005BAB	FSC	300B USAF	M38510/30101BCB	TII	301A AMEND 3	M38510/30104BAC	none	301A AMEND 3
M38510/15203BFA	none	152 AMEND 2	M38510/16101CCB	none	161 AMEND 1	M38510/30005BAC	FSC	300B USAF	M38510/30101BCD	FSC SIC TII	301A AMEND 3	M38510/30104BAC	none	301A AMEND 3
M38510/15203BFB	MOTA	152 AMEND 2	M38510/16101CDA	none	161 AMEND 1	M38510/30005BCA	NSC	300B USAF	M38510/30101BDA	none	301A AMEND 3	M38510/30104BAC	none	301A AMEND 3
M38510/15203CEA	none	152 AMEND 2	M38510/16101CDB	none	161 AMEND 1	M38510/30005BCB	FSC MOTA NSC SIC TII	300B USAF	M38510/30101CCA	none	301A AMEND 3	M38510/30104BAC	FSC	301A AMEND 3
M38510/15203CEB	none	152 AMEND 2	M38510/17001BCA	SSS	170 AMEND 2	M38510/30005CAA	none	300B USAF	M38510/30101CCB	none	301A AMEND 3	M38510/30104BAC	none	301A AMEND 3
M38510/15203CFA	none	152 AMEND 2	M38510/17001BCB	none	170 AMEND 2	M38510/30005CAB	FSC	300B USAF	M38510/30101CCD	none	301A AMEND 3	M38510/30104BAC	none	301A AMEND 3
M38510/15203CFB	MOTA	152 AMEND 2	M38510/17001BCA	SSS	170 AMEND 2	M38510/30005CAC	FSC	300B USAF	M38510/30101CCB	none	301A AMEND 3	M38510/30104BAC	none	301A AMEND 3
M38510/15206BEA	none	152 AMEND 2	M38510/17001BCB	none	170 AMEND 2	M38510/30005CCA	NSC	300B USAF	M38510/30101CCD	none	301A AMEND 3	M38510/30104BAC	none	301A AMEND 3
M38510/15206BEB	MOTA	152 AMEND 2	M38510/17001CCA	none	171 AMEND 2	M38510/30005CCB	FSC NSC	300B USAF	M38510/30101CDA	none	301A AMEND 3	M38510/30104BAC	none	301A AMEND 3
M38510/15206BFA	none	152 AMEND 2	M38510/17002BCA	none	170 AMEND 2	M38510/30005CDA	NSC	300B USAF	M38510/30101CDB	none	301A AMEND 3	M38510/30104BAC	none	301A AMEND 3
M38510/15206BFB	MOTA	152 AMEND 2	M38510/17002BCB	none	170 AMEND 2	M38510/30006BCA	none	300B USAF	M38510/30101CDB	none	301A AMEND 3	M38510/30104BAC	none	301A AMEND 3
M38510/15206CEA	none	152 AMEND 2	M38510/17002BCC	none	170 AMEND 2	M38510/30006BCB	TII	300B USAF	M38510/30101CDB	none	301A AMEND 3	M38510/30104BAC	none	301A AMEND 3
M38510/15206CEB	none	152 AMEND 2	M38510/17003BCA	none	170 AMEND 2	M38510/30006BCD	none	300B USAF	M38510/30101CDB	none	301A AMEND 3	M38510/30104BAC	none	301A AMEND 3
M38510/15206CFA	none	152 AMEND 2	M38510/17003BCB	none	170 AMEND 2	M38510/30006BDA	none	300B USAF	M38510/30101CDB	none	301A AMEND 3	M38510/30104BAC	none	301A AMEND 3
M38510/15206CFB	MOTA	152 AMEND 2	M38510/17003BCC	none	170 AMEND 2	M38510/30006CCA	none	300B USAF	M38510/30101CDB	none	301A AMEND 3	M38510/30104BAC	none	301A AMEND 3
M38510/15206CEA	none	152 AMEND 2	M38510/17003BCC	none	170 AMEND 2	M38510/30006CCB	none	300B USAF	M38510/30101CDB	none	301A AMEND 3	M38510/30104BAC	none	301A AMEND 3
M38510/15206CEB	none	152 AMEND 2	M38510/17003CCA	none	171 AMEND 2	M38510/30006CDA	none	300B USAF	M38510/30101CDB	none	301A AMEND 3	M38510/30104BAC	none	301A AMEND 3
M38510/15206CFA	none	152 AMEND 2	M38510/17103BCA	none	171 AMEND 2	M38510/30007BAA	none	300B USAF	M38510/30101CDB	none	301A AMEND 3	M38510/30104BAC	none	301A AMEND 3
M38510/15206CFB	MOTA	152 AMEND 2	M38510/17103BCB	none	171 AMEND 2	M38510/30007BAB	NSC	300B USAF	M38510/30101CDB	none	301A AMEND 3	M38510/30104BAC	none	301A AMEND 3
M38510/15501BCA	none	155A USAF	M38510/17103BCC	none	171 AMEND 2	M38510/30007BAC	FSC	300B USAF	M38510/30101CDB	none	301A AMEND 3	M38510/30104BAC	none	301A AMEND 3
M38510/15501BCB	MOTA	155A USAF	M38510/17103CCA	none	171 AMEND 2	M38510/30007BCA	FSC	300B USAF	M38510/30101CDB	none	301A AMEND 3	M38510/30104BAC	none	301A AMEND 3
M38510/15501CCA	SIC	155A USAF	M38510/17103CCC	none	171 AMEND 2	M38510/30007BDA	NSC	300B USAF	M38510/30101CDB	none	301A AMEND 3	M38510/30104BAC	none	301A AMEND 3
M38510/15501CCB	none	155A USAF	M38510/17202BCA	none	172 AMEND 2	M38510/30007CAB	FSC	300B USAF	M38510/30101CDB	none	301A AMEND 3	M38510/30104BAC	none	301A AMEND 3
			M38510/17202BCB	none	172 AMEND 2	M38510/30007CAC	FSC	300B USAF	M38510/30101CDB	none	301A AMEND 3	M38510/30104BAC	none	301A AMEND 3
			M38510/17202CCA	none	172 AMEND 2	M38510/30007CCA	NSC	300B USAF	M38510/30101CDB	none	301A AMEND 3	M38510/30104BAC	none	301A AMEND 3
			M38510/17202CCC	none	172 AMEND 2	M38510/30007CDA	NSC	300B USAF	M38510/30101CDB	none	301A AMEND 3	M38510/30104BAC	none	301A AMEND 3
			M38510/30001BAA	none	300B USAF	M38510/30008BAA	NSC	300B USAF	M38510/30101CDB	none	301A AMEND 3	M38510/30104BAC	none	301A AMEND 3
			M38510/30001BAB	FSC	300B USAF	M38510/30008BAC	NSC	300B USAF	M38510/30101CDB	none	301A AMEND 3	M38510/30104BAC	none	301A AMEND 3
			M38510/30001BAC	FSC	300B USAF	M38510/30008BCA	NSC	300B USAF	M38510/30101CDB	none	301A AMEND 3	M38510/30104BAC	none	301A AMEND 3
			M38510/30001BCA	NSC	300B USAF	M38510/30008BCB	NSC	300B USAF	M38510/30101CDB	none	301A AMEND 3	M38510/30104BAC	none	301A AMEND 3
			M38510/30001BDA	NSC	300B USAF	M38510/30008BDA	NSC	300B USAF	M38510/30101CDB	none	301A AMEND 3	M38510/30104BAC	none	301A AMEND 3
			M38510/30001BDB	MOTA	300B USAF	M38510/30008CAA	NSC	300B USAF	M38510/30101CDB	none	301A AMEND 3	M38510/30104BAC	none	301A AMEND 3
			cont.next col.			M38510/30008CAC	NSC	300B USAF	M38510/30101CDB	none	301A AMEND 3	M38510/30104BAC	none	301A AMEND 3
						M38510/30008CCA	NSC	300B USAF	M38510/30101CDB	none	301A AMEND 3	M38510/30104BAC	none	301A AMEND 3

28. TYPES WITH U.S. MILITARY SPECIFICATIONS

IN TYPE NUMBER
SEQUENCE

TYPE No.	MFRS	MIL-S-38510/	TYPE No.	MFRS	MIL-S-38510/	TYPE No.	MFRS	MIL-S-38510/	TYPE No.	MFRS	MIL-S-38510/	TYPE No.	MFRS	MIL-S-38510/
M38510/30108CCA	none	301A AMEND 3	M38510/30301CDA	NSC	303A AMEND 1	M38510/30401CDA	NSC	304A AMEND 5	M38510/30502CAB	none	305A AMEND 1	M38510/31003CAC	FSC	310A AMEND 1
M38510/30108CCB	none	USAF 301A AMEND 3	M38510/30302BAA	none	USAF 303A AMEND 1	M38510/30402BAA	NSC	304A AMEND 5	M38510/30502CCA	NSC	305A AMEND 1	M38510/31003CCA	NSC	310A AMEND 1
M38510/30108CDA	none	USAF 301A AMEND 3	M38510/30302BAB	FSC	USAF 303A AMEND 1	M38510/30402BAB	none	304A AMEND 5	M38510/30502CCB	NSC	305A AMEND 1	M38510/31003CDA	NSC	310A AMEND 1
M38510/30109BEA	none	USAF 301A AMEND 3	M38510/30302BAC	FSC	USAF 303A AMEND 1	M38510/30402BAC	NSC	304A AMEND 5	M38510/30502CDA	NSC	305A AMEND 1	M38510/31004BAA	none	310A AMEND 1
M38510/30109BEB	none	USAF 301A AMEND 3	M38510/30302BAC	FSC	USAF 303A AMEND 1	M38510/30402BCA	NSC	304A AMEND 5	M38510/30502CDB	NSC	305A AMEND 1	M38510/31004BAB	FSC	310A AMEND 1
M38510/30109BEB	FSC MOTA SIC TII	USAF 301A AMEND 3	M38510/30302BCA	NSC	USAF 303A AMEND 1	M38510/30402BCB	MOTA NSC TII	304A AMEND 5	M38510/30703BEA	none	307A AMEND 2	M38510/31004BAC	FSC	310A AMEND 1
M38510/30109BFA	none	USAF 301A AMEND 3	M38510/30302BCB	FSC MOTA NSC TII	USAF 303A AMEND 1	M38510/30402BDA	NSC	304A AMEND 5	M38510/30703BEB	MOTA SIC TII	USAF 307A AMEND 2	M38510/31004BCA	NSC	310A AMEND 1
M38510/30109CEA	none	USAF 301A AMEND 3	M38510/30302BDA	NSC	USAF 303A AMEND 1	M38510/30402CAA	NSC	304A AMEND 5	M38510/30703BFA	none	USAF 307A AMEND 2	M38510/31004BDA	NSC	310A AMEND 1
M38510/30109CEB	FSC	USAF 301A AMEND 3	M38510/30302CAA	none	USAF 303A AMEND 1	M38510/30402CAB	none	304A AMEND 5	M38510/30703CEA	none	USAF 307A AMEND 2	M38510/31004CAA	none	310A AMEND 1
M38510/30109CFA	none	USAF 301A AMEND 3	M38510/30302CAB	FSC	USAF 303A AMEND 1	M38510/30402CAC	NSC	304A AMEND 5	M38510/30703CEB	none	USAF 307A AMEND 2	M38510/31004CAB	FSC	310A AMEND 1
M38510/30110BEA	none	USAF 301A AMEND 3	M38510/30302CAC	FSC	USAF 303A AMEND 1	M38510/30402CCA	NSC	304A AMEND 5	M38510/30703CFA	none	USAF 307A AMEND 2	M38510/31004CAC	FSC	310A AMEND 1
M38510/30110BEB	TII	USAF 301A AMEND 3	M38510/30302CCA	NSC	USAF 303A AMEND 1	M38510/30402CCB	NSC	304A AMEND 5	M38510/30703CFB	none	USAF 307A AMEND 2	M38510/31004CCB	NSC	310A AMEND 1
M38510/30110BFA	none	USAF 301A AMEND 3	M38510/30302CCB	FSC NSC	USAF 303A AMEND 1	M38510/30402CDB	FSC	304A AMEND 5	M38510/31001BAA	none	310A AMEND 1	M38510/31101BEA	none	311A AMEND 1
M38510/30110CEA	none	USAF 301A AMEND 3	M38510/30302CDA	NSC	USAF 303A AMEND 1	M38510/30501BAA	NSC	305A AMEND 1	M38510/31001BAB	FSC	310A AMEND 1	M38510/31101BEB	TII	USAF 311A AMEND 1
M38510/30110CEB	none	USAF 301A AMEND 3	M38510/30303BCA	NSC	USAF 303A AMEND 1	M38510/30501BAC	FSC	305A AMEND 1	M38510/31001BAC	FSC	310A AMEND 1	M38510/31101BFA	none	USAF 311A AMEND 1
M38510/30110CFA	none	USAF 301A AMEND 3	M38510/30303BCB	NSC	USAF 303A AMEND 1	M38510/30501BCA	NSC	305A AMEND 1	M38510/31001BAC	FSC	310A AMEND 1	M38510/31101CEA	none	USAF 311A AMEND 1
M38510/30110CEB	none	USAF 301A AMEND 3	M38510/30303BCB	NSC	USAF 303A AMEND 1	M38510/30501BCB	FSC MOTA NSC SIC	305A AMEND 1	M38510/31001BCA	NSC	310A AMEND 1	M38510/31101CEB	none	USAF 311A AMEND 1
M38510/30110CFA	none	USAF 301A AMEND 3	M38510/30303BDB	NSC	USAF 303A AMEND 1	M38510/30501BDB	MOTA NSC SIC	305A AMEND 1	M38510/31001BCB	FSC MOTA NSC TII	310A AMEND 1	M38510/31101CFB	none	USAF 311A AMEND 1
M38510/30301BAA	none	USAF 303A AMEND 1	M38510/30303CCA	NSC	USAF 303A AMEND 1	M38510/30501CAA	none	305A AMEND 1	M38510/31001BDA	NSC	310A AMEND 1	M38510/31101CFA	none	USAF 311A AMEND 1
M38510/30301BAB	FSC	USAF 303A AMEND 1	M38510/30303CCB	NSC	USAF 303A AMEND 1	M38510/30501CAB	FSC	305A AMEND 1	M38510/31001CAA	none	310A AMEND 1	M38510/31201BEA	none	USAF 312 AMEND 1
M38510/30301BAC	FSC	USAF 303A AMEND 1	M38510/30303CDA	NSC	USAF 303A AMEND 1	M38510/30501CAC	FSC	305A AMEND 1	M38510/31001CAB	FSC	310A AMEND 1	M38510/31201BEB	FSC	USAF 312 AMEND 1
M38510/30301BCA	NSC SIC	USAF 303A AMEND 1	M38510/30401BAA	NSC	USAF 304A AMEND 5	M38510/30501CCA	NSC	305A AMEND 1	M38510/31001CCA	NSC	310A AMEND 1	M38510/31201BFA	none	USAF 312 AMEND 1
M38510/30301BCB	FSC MOTA NSC SIC TII	USAF 303A AMEND 1	M38510/30401BAB	none	USAF 304A AMEND 5	M38510/30501CCB	FSC NSC	305A AMEND 1	M38510/31001CDA	NSC	310A AMEND 1	M38510/31201BFA	none	USAF 312 AMEND 1
M38510/30301BDA	NSC SIC	USAF 303A AMEND 1	M38510/30401BAC	NSC	USAF 304A AMEND 5	M38510/30501CDB	NSC	305A AMEND 1	M38510/31002BCA	NSC	310A AMEND 1	M38510/31201BFB	FSC	USAF 312 AMEND 1
M38510/30301CAA	none	USAF 303A AMEND 1	M38510/30401BCA	NSC	USAF 304A AMEND 5	M38510/30502BAA	none	305A AMEND 1	M38510/31002BCB	NSC	310A AMEND 1	M38510/31201CEA	none	USAF 312 AMEND 1
M38510/30301CAB	FSC	USAF 303A AMEND 1	M38510/30401BCB	MOTA NSC TII	USAF 304A AMEND 5	M38510/30502BAB	none	305A AMEND 1	M38510/31002BCC	NSC	310A AMEND 1	M38510/31201CEB	FSC	USAF 312 AMEND 1
M38510/30301CAC	FSC	USAF 303A AMEND 1	M38510/30401BDA	NSC	USAF 304A AMEND 5	M38510/30502BAC	NSC	305A AMEND 1	M38510/31002BDB	NSC	310A AMEND 1	M38510/31201CFA	none	USAF 312 AMEND 1
M38510/30301CCA	NSC	USAF 303A AMEND 1	M38510/30401CAA	NSC	USAF 304A AMEND 5	M38510/30502BCB	MOTA NSC SIC	305A AMEND 1	M38510/31002BCA	NSC	310A AMEND 1	M38510/31201CFB	FSC	USAF 312 AMEND 1
M38510/30301CCB	FSC NSC	USAF 303A AMEND 1	M38510/30401CAB	none	USAF 304A AMEND 5	M38510/30502BDA	NSC	305A AMEND 1	M38510/31002BCB	NSC	310A AMEND 1	M38510/31201CFA	none	USAF 312 AMEND 1
			M38510/30401CAC	NSC	USAF 304A AMEND 5	M38510/30502BDB	MOTA NSC SIC	305A AMEND 1	M38510/31003BAA	NSC	310A AMEND 1	M38510/31201CEA	none	USAF 312 AMEND 1
			M38510/30401CAB	NSC	USAF 304A AMEND 5	M38510/30502BDB	MOTA NSC SIC	305A AMEND 1	M38510/31003BAB	FSC	310A AMEND 1	M38510/31201CEB	FSC	USAF 312 AMEND 1
			M38510/30401CCA	NSC	USAF 304A AMEND 5	M38510/30502BDB	MOTA NSC SIC	305A AMEND 1	M38510/31003BAC	FSC	310A AMEND 1	M38510/31201CFA	none	USAF 312 AMEND 1
			M38510/30401CCB	NSC	USAF 304A AMEND 5	M38510/30502CAA	none	305A AMEND 1	M38510/31003BCA	NSC	310A AMEND 1	M38510/31201CFB	FSC	USAF 312 AMEND 1
									M38510/31003BDA	NSC	310A AMEND 1	M38510/31202BEA	none	USAF 312 AMEND 1
									M38510/31003CAB	FSC	310A AMEND 1	M38510/31202BEB	FSC	USAF 312 AMEND 1

28. TYPES WITH U.S. MILITARY SPECIFICATIONS

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	MIL-S-38510/	TYPE No.	MFRS	MIL-S-38510/	TYPE No.	MFRS	MIL-S-38510/	TYPE No.	MFRS	MIL-S-83510/	TYPE No.	MFRS	MIL-S-83510/
M38510/31202BFA	none	312 AMEND 4 USAF 312	M38510/31502BCB	TII	315 AMEND 1 USAF 315	M38510/31513CEB	none	315 AMEND 1 USAF 320	M38510/01202BAA	none	12E AMEND 2			
M38510/31202BFB	FSC	AMEND 4 USAF 312	M38510/31502BDA	none	AMEND 1 USAF 315	M38510/32003BCB	TII	AMEND 1 USAF 320	M38510/01202BCB	MOTA	12E AMEND 2			
M38510/31202CEA	none	AMEND 4 USAF 312	M38510/31502CCA	none	AMEND 1 USAF 315	M38510/32003CCB	none	AMEND 1 USAF 320	M38510/01202CCA	none	12E AMEND 2			
M38510/31202CEB	FSC	AMEND 4 USAF 312	M38510/31502CCB	none	AMEND 1 USAF 315	M38510/32004BCB	TII	AMEND 1 USAF 320						
M38510/31202CFA	FSC	AMEND 4 USAF 312	M38510/31502CDA	none	AMEND 1 USAF 315	M38510/32004CCB	none	AMEND 1 USAF 320						
M38510/31401BEA	none	AMEND 1 USAF 314A	M38510/31503BEB	TII	AMEND 1 USAF 315									
M38510/31401BEB	TII	AMEND 1 USAF 314A	M38510/31503CEB	none	AMEND 1 USAF 315									
M38510/31401BFA	none	AMEND 1 USAF 314A	M38510/31504BEB	AMD TII	AMEND 1 USAF 315									
M38510/31401CEA	none	AMEND 1 USAF 314A	M38510/31504CEB	AMD	AMEND 1 USAF 315									
M38510/31401CEB	none	AMEND 1 USAF 314A	M38510/31507BEB	TII	AMEND 1 USAF 315									
M38510/31401CFA	none	AMEND 1 USAF 314A	M38510/31507CEB	none	AMEND 1 USAF 315									
M38510/31402BEB	TII	AMEND 1 USAF 314A	M38510/31508BEB	TII	AMEND 1 USAF 315									
M38510/31402CEB	none	AMEND 1 USAF 314A	M38510/31508CEB	none	AMEND 1 USAF 315									
M38510/31403BAA	none	AMEND 1 USAF 314A	M38510/31509BEB	TII	AMEND 1 USAF 315									
M38510/31403BAB	none	AMEND 1 USAF 314A	M38510/31509CEB	none	AMEND 1 USAF 315									
M38510/31403BCA	none	AMEND 1 USAF 314A	M38510/31510BCB	TII	AMEND 1 USAF 315									
M38510/31403BCB	TII	AMEND 1 USAF 314A	M38510/31510CCB	none	AMEND 1 USAF 315									
M38510/31403CAA	none	AMEND 1 USAF 314A	M38510/31511BEB	TII	AMEND 1 USAF 315									
M38510/31403CAB	none	AMEND 1 USAF 314A	M38510/31511CEB	none	AMEND 1 USAF 315									
M38510/31403CCA	none	AMEND 1 USAF 314A	M38510/31512BEB	TII	AMEND 1 USAF 315									
M38510/31403CCB	none	AMEND 1 USAF 314A	M38510/31512CEB	none	AMEND 1 USAF 315									
M38510/31501BCB	TII	AMEND 1 USAF 315	M38510/31513BEB	TII	AMEND 1 USAF 315									
M38510/31501CCB	none	AMEND 1 USAF 315												
M38510/31502BCA	none	AMEND 1 USAF 315												

MILITARY DOCUMENTS

Department of Defense Index of Specifications and Standards dated 1 July 1976, Supplement dated 1 November 1976.

Device Manufacturers Qualifications on Test Reference Letter.

MIL-M-38510D Military Specification, General Specification for Microcircuits, dated 31 August 1977, Amendment 1, dated 21 July 1978, Supplement 1B, dated 31 October 1978.

QPL-38510-45 Qualified Products List (Part I) of Products Qualified Under Military Specification MIL-M-38510, dated 26 September 1980. Qualified Products List (Part II) of Products Qualified Under Military Specification MIL-M-38510, dated 26 September 1980. These products are considered qualified products. Therefore, manufacturers listed on QPL-38510 shall "JAN" mark and ship the specific part numbered devices for which they are listed, providing all required quality conformance inspections have been successfully completed. They have not been subjected to all the tests required for qualification under the latest effective issue of MIL-M-38510; however, the manufacturers have performed sufficient similar tests to indicate that the products have the potential of complying with the MIL-M-38510 requirements.

MIL-S-19500F Military Specification, General Specifications for Semiconductor Devices.

QPL-19500-78 Qualified Products List of Products Qualified, under Military Specification MIL-S-19500, dated 18 August 1980.

MIL-STD-833B Military Standard; Test Methods and Procedures for Microelectronics, dated 31 August 1977, Notice 1, dated 21 July 1978.

MIL-STD-1562A Military Standard; List of Standard microcircuits, dated 15 April 1977, Notice 2, dated 11 January 1978.

NOTE: The 3-letter suffix at the end of the type number represents device class (degree of quality assurance testing), case outline and lead material finish as shown below:

EXAMPLE: M38510/0010XXX

device class case outline lead material and finish

Only types with actual or previous sources of supply are listed in this edition.

28. COMMERCIAL-TO-MILITARY TYPE NUMBER CROSS-REFERENCE

IN COMMERCIAL
TYPE No. SEQUENCE

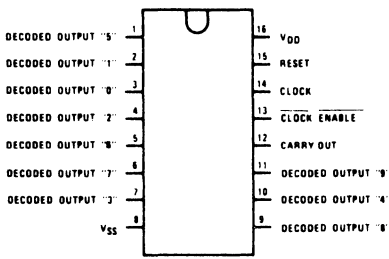
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9LS51	30401	54LS47	30704	54S174	07105	5475	01501
9LS54	30402	54LS51	30401	54S181	07801	5476	00204
54H00	02304	54LS54	30402	555	10901	5477	01502
54H01	02306	54LS73	30101	556	10902	5479	00207
54H08	15501	54LS74	30102	930	03001	5482	00601
54H10	02303	54LS76	30110	946	03004	5483	00602
54H11	15502	54LS83A	31201	962	03005	5485	15001
54H20	02302	54LS85	31101	3121	00701	5486	00701
54H21	15503	54LS86	30501	4000A	05201	5490	01307
54H22	02307	54LS90	31501	4001A	05202	5492	01301
54H30	02301	54LS92	31510	4002A	05203	5493	01302
54H50	04001	54LS93	31502	4008A	05401	7181	01101
54H51	04002	54LS107	30108	4011A	05001	8250	15204
54H53	04003	54LS109	30109	4012A	05002	8251	15205
54H54	04004	54LS112	30103	4013A	05101	8252	15206
54H55	04005	54LS113	30104	4017A	05601	9301	15206
54H72	02201	54LS114	30105	4018A	05602	9304	00603
54H73	02202	54LS122	31403	4019A	05302	9308	01503
54H74	02203	54LS123	31401	4020A	05603	9311	15201
54H76	02204	54LS138	30701	4022A	05604	9314	01504
54H101	02205	54LS139	30702	4023A	05003	9341	01101
54H103	02206	54LS160	31503	4024A	05605	9342	01102
54L00	02004	54LS161	31504	4025A	05204	9601	01204
54L01	02006	54LS162	31511	4027A	05102	9602	01205
54L02	02701	54LS163	31512	4030A	05303	10501	06001
54L03	02006	54LS181	30801	5400	00104	10502	06002
54L10	02003	54LS190	31513	5401	00107	10505	06003
54L20	02002	54LS191	31509	5402	00401	10506	06004
54L71	02101	54LS192	31507	5403	00109	10507	06005
54L72	02102	54LS193	31508	5408	01601	10509	06006
54L73	02103	54LS221	31402	5409	01602	54107	00203
54L74	02105	54LS266	30303	5410	00103	54121	01201
54L78	02104	54LS283	31202	5412	00106	54122	01202
54L86	02601	54S00	07001	5420	00102	54123	01203
54L90	02501	54S02	07301	5423	00402	54154	15201
54L93	02502	54S03	07002	5423	00402	54155	15202
54LS00	30001	54S08	08003	5425	00403	54156	15203
54LS02	30301	54S10	07005	5427	00404	54160	01303
54LS03	30002	54S11	08001	5430	00101	54161	01306
54LS08	31004	54S15	08002	5432	16101	54162	01305
54LS10	30005	54S20	07006	5442	01001	54163	01304
54LS11	31001	54S22	07007	5443	01002	54174	01701
54LS12	30006	54S30	07008	5444	01003	54175	01702
54LS15	31002	54S51	07401	5450	00501	54180	01901
54LS20	30007	54S64	07402	5451	00502	54181	01101
54LS21	31003	54S65	07403	5453	00503	54182	01102
54LS22	30008	54S74	07101	5454	00504	54192	01308
54LS27	30302	54S85	08201	5470	00206	54193	01309
54LS30	30009	54S86	07501	5472	00201	MC3101	15501
54LS32	30501	54S133	07009	5473	00202	MC3106	15502
54LS42	30703	54S134	07010	5474	00205	MC3111	15503

29. LOGIC/BLOCK DRAWINGS

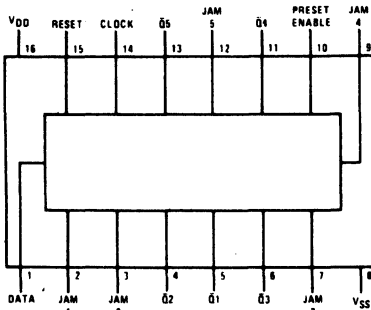
<p>40-00B Dual 3-Input NOR Gates Plus Inverter</p>	<p>40H000 Quad 2-Input NAND Gate</p>	<p>40-01B Quadruple 2-Input NOR Gates</p>
<p>40H002 Quad 2-Input NOR Gate</p>	<p>40H004 Hex Inverter</p>	<p>40-08B 4-Bit Full Adder with Parallel Carry Out</p>
<p>40H008 Quad 2-Input AND Gate</p>	<p>40-09A Hex Inverter</p>	<p>40H010 Triple 3-Input NAND Gate</p>
<p>40-11B Quad 2-Input NAND Gate</p>	<p>40H011 Triple 3-Input AND Gate</p>	<p>40-13B Dual D Type Flip-Flop with Set/Reset Capability</p>

29. LOGIC/BLOCK DRAWINGS

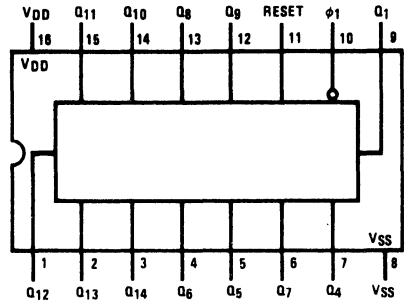
40-17B Decade Counter/Divider with 10 Decoded Outputs



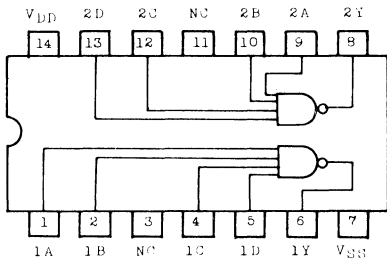
40-18B Presetable Divide by-N Counter



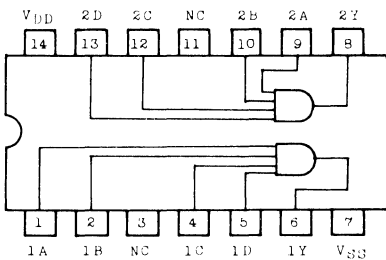
40-20B 14-Stage Ripple Carry Binary Counter



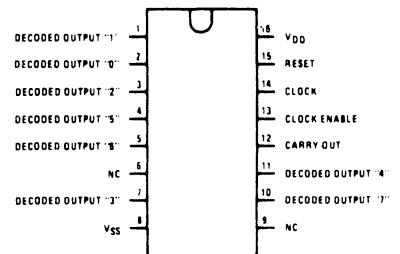
40H020 Dual 4-Input NAND Gate



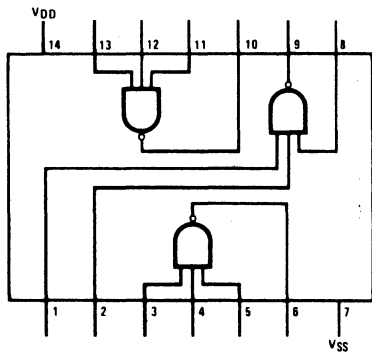
40H021 Dual 4-Input AND Gate



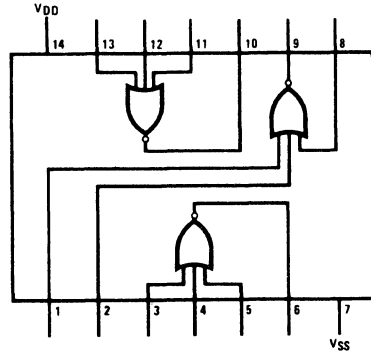
40-22B Divide-by-8 Counter/Divider (with 8 Decoded Outputs)



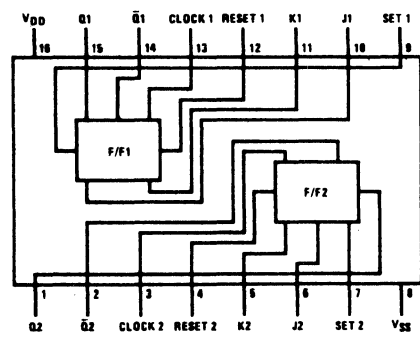
40-23B Triple 3-Input NAND Gate



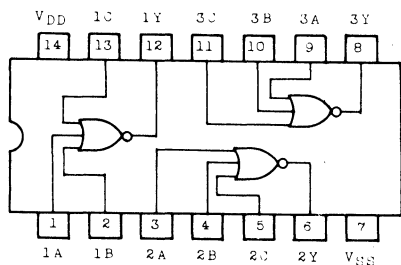
40-25B Triple 3-Input NOR Gates



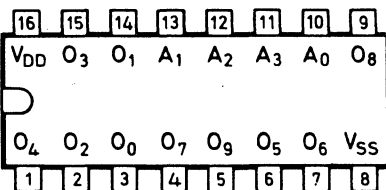
40-27B Dual J-K Master/Slave Flip-Flop with Set and Reset



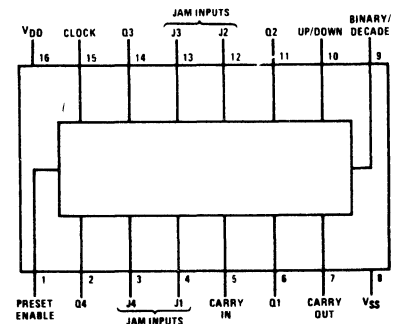
40H027 Triple 3-Input NOR Gate



40-28B BCD to Decimal Decoder



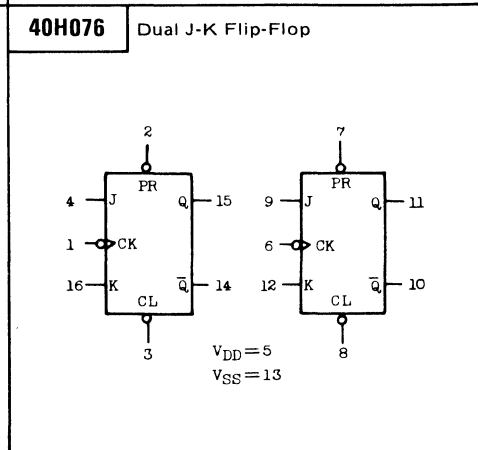
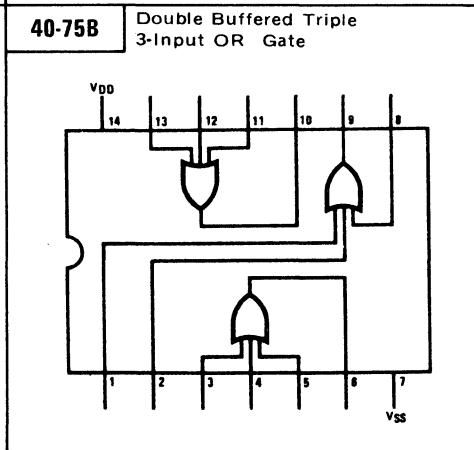
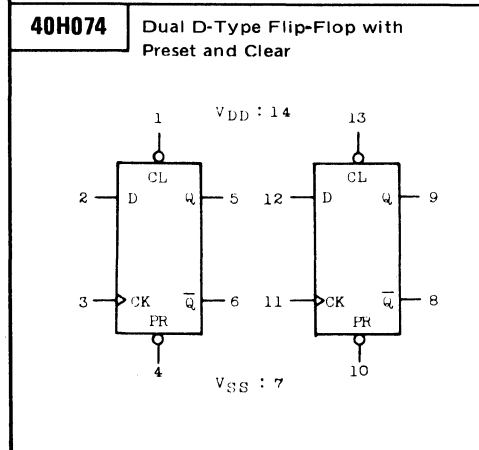
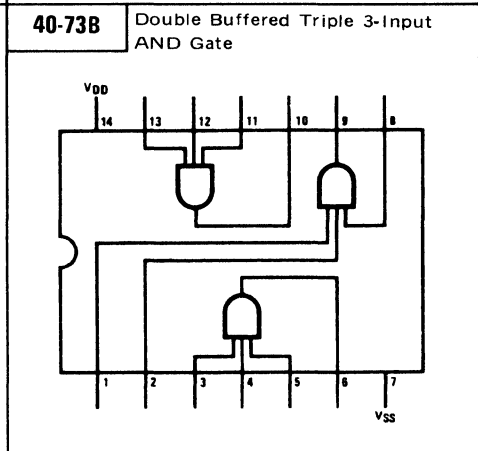
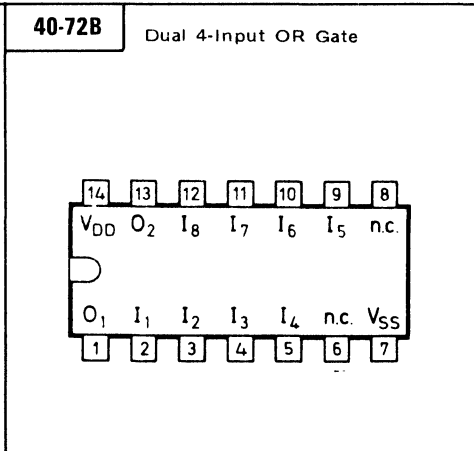
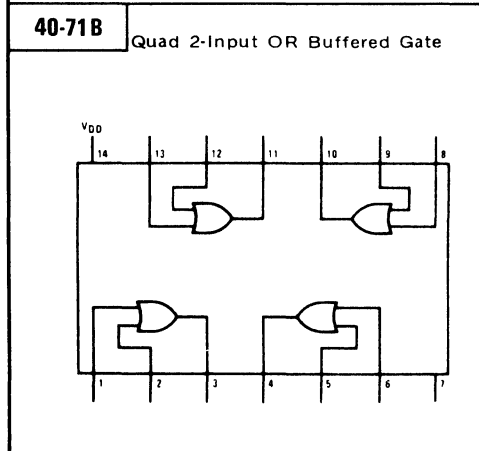
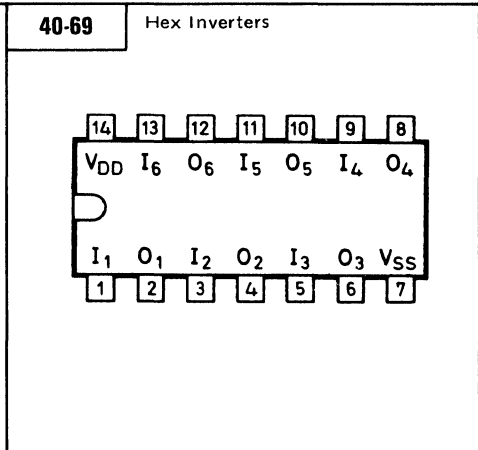
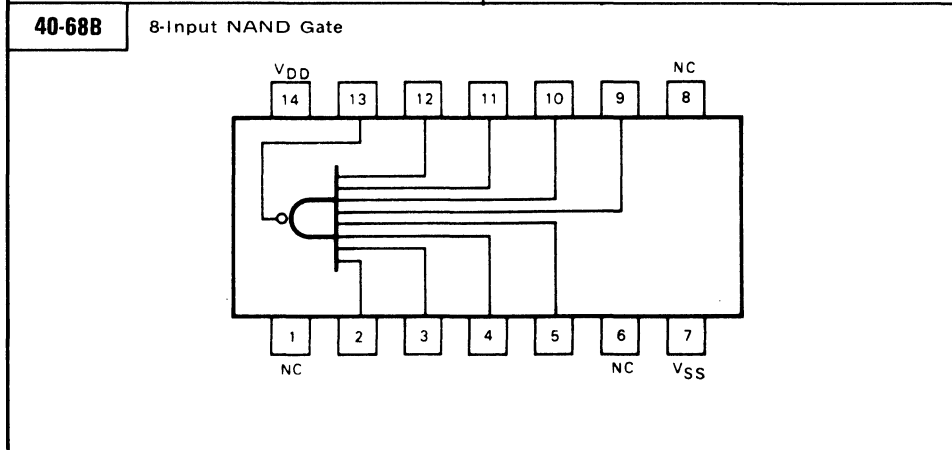
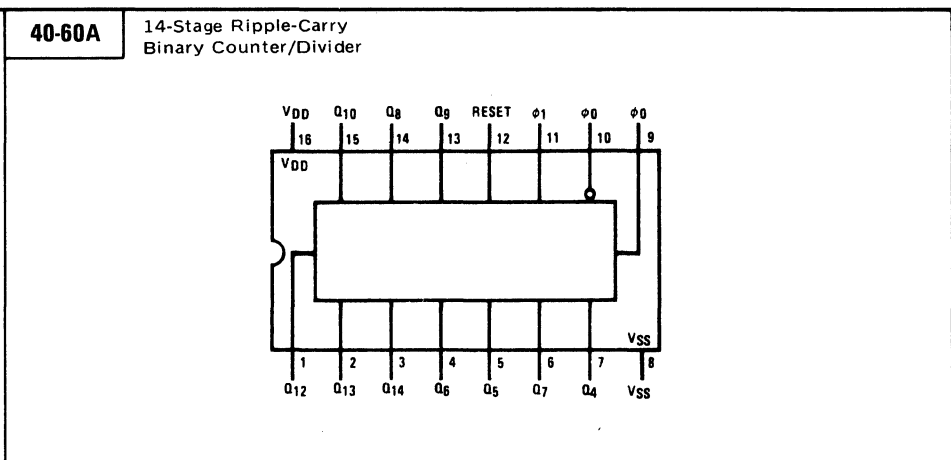
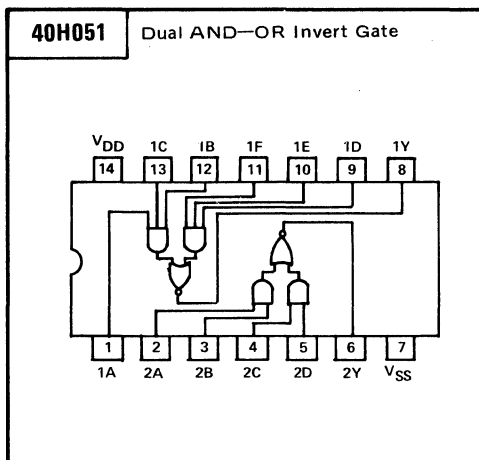
40-29B Presetable Synchronous Up/Down Counter, Binary or BCD Decode



29. LOGIC/BLOCK DRAWINGS

<p>40-32B Triple Adder</p>	<p>40H032 Quad 2-Input OR Gate</p>	<p>40-37A Triple AND/OR Bi-phase Pair AND/OR Gate</p>
<p>40-37B Triple 3-Input AND/OR Gate</p>	<p>40-38B Serial Triple Adder with Negative Logic</p>	<p>40-39A Programmable Divide by N Counter</p>
<p>40-40B 12-Stage Ripple Carry Binary Counter/Divider</p>	<p>40-42B Quad Clocked D Type Latch</p>	<p>40H042 BCD-Decimal Decoder/Driver</p>
<p>40-43B Quad R-S Latch with 3-State Outputs</p>	<p>40-44B Quad NAND R/S Latch with 3-State Outputs</p>	<p>40-47 Low-Power Monostable/Astable Multivibrator</p>

29. LOGIC/BLOCK DRAWINGS



29. LOGIC/BLOCK DRAWINGS

<p>40-78B 8-Input NOR Gate</p> <p>Pinout: 14 (VDD), 13 (O8), 12 (I7), 11 (I6), 10 (I5), 9 (I4), 8 (n.c.), 7 (VSS), 6 (n.c.), 5 (I3), 4 (I2), 3 (I1), 2 (I0), 1 (n.c.).</p>	<p>40-81B Quad 2-Input AND Buffered Gate</p> <p>Pinout: 14 (VDD), 13, 12, 11, 10, 9, 8, 7 (VSS), 6, 5, 4, 3, 2, 1.</p>	<p>40-82B Dual 4-Input and Gate</p> <p>Pinout: 14 (VDD), 13 (O8), 12 (I7), 11 (I6), 10 (I5), 9 (n.c.), 8 (I4), 7 (VSS), 6 (n.c.), 5 (I3), 4 (I2), 3 (I1), 2 (I0), 1 (O1).</p>
<p>40-85B Dual 2-Wide 2-Input AND-OR-INVERT Gate</p> <p>Pinout: 14 (VDD), 13 (O8), 12 (A3), 11 (A2), 10 (B4), 9 (A4), 8 (B3), 7 (B2), 6 (VSS), 5 (B1), 4 (B0), 3 (O1), 2 (A1), 1 (A0).</p>	<p>40-86B 4-Wide 2-Input AND-OR-INVERT Gate</p> <p>Pinout: 14 (VDD), 13 (O8), 12 (I7), 11 (I6), 10 (I9), 9 (I8), 8 (I5), 7 (VSS), 6 (I4), 5 (I3), 4 (n.c.), 3 (I2), 2 (I1), 1 (I0).</p>	<p>40-89B Binary Rate Multiplier</p> <p>Pinout: 14 (VDD), 13 (CLEAR), 12 (CASCADE), 11 (CARRY IN), 10 (STROBE), 9 (CLOCK), 8 (VSS), 7 (CARRY OUT), 6 (OUT), 5 (OUT), 4 (15 SET), 3 (D), 2 (C), 1 (15 OUT).</p>
<p>40-95B Gated J-K Flip-Flop with Non-inverting Inputs</p> <p>Pinout: 13 (PS), 8 (Q-bar), 6 (Q), 2 (R).</p>	<p>40-107B Dual J-K Flip-Flop</p> <p>Pinout: 13 (VSS), 10 (VDD), 1 (J), 2 (Q-bar), 3 (Q), 4 (K), 5 (Q), 6 (Q-bar), 7 (VSS), 8 (Q), 9 (CK), 10 (CL).</p>	<p>40H138 3-8 Line Decoder/Demultiplexer</p> <p>Pinout: 16 (VDD), 15 (Y0), 14 (Y1), 13 (Y2), 12 (Y3), 11 (Y4), 10 (Y5), 9 (Y6), 8 (Y7), 7 (VSS), 6 (ENABLE), 5 (ENABLE), 4 (ENABLE), 3 (SELECT), 2 (SELECT), 1 (SELECT).</p>
<p>40H139 Dual 2-4 Line Decoder Demultiplexer</p> <p>Pinout: 16 (VDD), 15 (Y0), 14 (Y1), 13 (Y2), 12 (Y3), 11 (Y0), 10 (Y1), 9 (Y2), 8 (Y3), 7 (VSS), 6 (ENABLE), 5 (ENABLE), 4 (ENABLE), 3 (SELECT), 2 (SELECT), 1 (SELECT).</p>	<p>40H155 Dual 2-4 Decoder/Demultiplexer</p> <p>Pinout: 16 (VDD), 15 (DATA), 14 (STROBE), 13 (SELECT), 12 (SELECT), 11 (SELECT), 10 (SELECT), 9 (Y0), 8 (Y1), 7 (Y2), 6 (Y3), 5 (Y0), 4 (Y1), 3 (Y2), 2 (Y3), 1 (VSS).</p>	<p>40H160 Synchronous Presettable 4-Bit Decade Counter with Asynchronous Clear</p> <p>Pinout: 16 (VDD), 15 (RIPPLE CARRYOUT), 14 (QA), 13 (QB), 12 (QC), 11 (QD), 10 (ENABLE), 9 (LOAD), 8 (VSS), 7 (ENABLE), 6 (D), 5 (C), 4 (B), 3 (A), 2 (CLOCK), 1 (CLEAR).</p>

29. LOGIC/BLOCK DRAWINGS

<p>40H161 Synchronous Presettable 4-Bit Binary Counter with Asynchronous Clear</p>	<p>40H162 Synchronous Presettable 4-Bit Decade Counter with Synchronous Clear</p>	<p>40H163 Synchronous Presettable 4-Bit Binary Counter with Synchronous Clear</p>
<p>40-174 Hex D-Type Flip-Flop</p>	<p>40-175 Quad D-Type Flip-Flop</p>	<p>40H192 Synchronous BCD Up/Down Counter (Dual Clock with Clear)</p>
<p>40H193 Synchronous 4-Bit Binary Up/Down Counter (Dual Clock with Clear)</p>	<p>40H259 8-Bit Addressable Latch</p>	<p>40H273 Octal D-Type Flip-Flop</p>
<p>40-373 Octal D-Type Transparent Latch with 3-State Output</p>	<p>40H373 Octal D-Type Flip-Flop with 3-State Output</p>	<p>40-374 Octal D-Type Flip-Flop</p>

29. LOGIC/BLOCK DRAWINGS

<p>40H374 Octal D-Type Flip-Flop with 3-State Output</p>	<p>40H375 4-Bit Bistable Latch</p>	<p>40H386 Quad 2-Input Exclusive-OR Gate</p>
<p>40H390 Dual Decade Counter</p>	<p>40H393 Dual 4-Bit Binary Counter</p>	<p>44-02B Dual 4-Input NOR Gates with Uncommitted Output Transistors</p>
<p>44-04B 8-Stage Binary Counter</p>	<p>44-09 Binary Pulse Conv. (LO Out)</p> <p>Control Inputs</p> <ul style="list-style-type: none"> Hold 9 Call Request 13 Re-Dial 10 Interdigit Time 14 Make-Break Ratio 15 <p>V_{DD} = Pin 16 V_{SS} = Pin 8</p>	
<p>44-08 Binary Pulse Conv. (Hi Out)</p>		

29. LOGIC/BLOCK DRAWINGS

<p>44-12B Dual 4-Input NAND Gates with Uncommitted Output Transistors</p>	<p>44-28B Binary-to-Octal Decoder</p> <p>V_{DD} = Pin 14 V_{SS} = Pin 7</p>	<p>44-45B 21-Stage Divider</p>
<p>44-90P HEX Contact Bounce Eliminator</p>	<p>45-08B Dual 4-Bit Latch</p>	<p>45-10B BCD Presettable Up/Down Counter</p>
<p>45-11B BCD-to-7-Segment Latch/Decoder/Driver</p>	<p>45-14B 4-Bit Latch/4-to-16 Line Decoder Active High</p> <p>V_{DD} = Pin 24 V_{SS} = Pin 12</p>	<p>45-15B 4-Bit Latch/4-to-16 Line Decoder (Active Low)</p>
<p>45-16B Binary Presettable Up/Down Counter</p>	<p>45-18B Dual BCD UP Counter</p>	<p>45-20B Dual Binary UP Counter</p>

29. LOGIC/BLOCK DRAWINGS

<p>45-21B 24-Stage Frequency Divider</p>	<p>45-22B Programmable 4-Bit BCD Down Counter</p>	<p>45-26B Programmable 4-Bit Binary Down Counter</p>
<p>45-27B BCD Rate Multiplier</p>	<p>45-28B Dual Monostable Multivibrator</p>	<p>45-31B 13-Input Parity Checker/Generator</p>
<p>45-34B Real Time 5 Decade Counter</p>	<p>45-36B Programmable Timer</p>	<p>45-41 Programmable Timer</p>
<p>45-53B 3 Decade Counter with Multiplexed Output</p>		

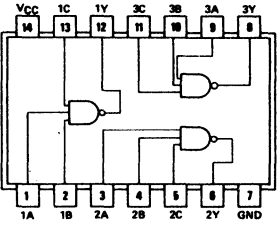
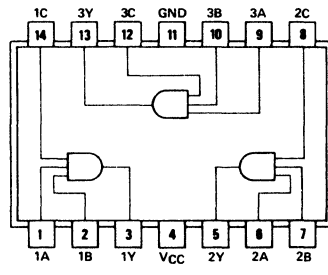
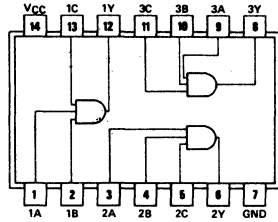
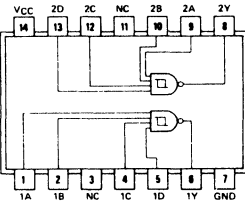
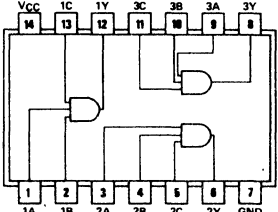
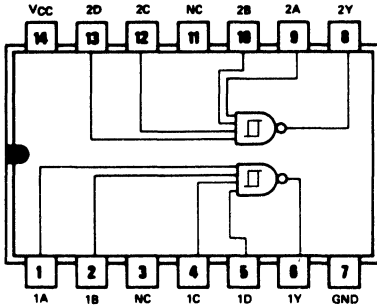
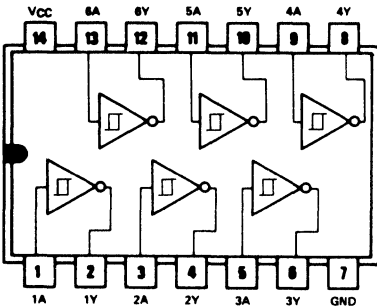
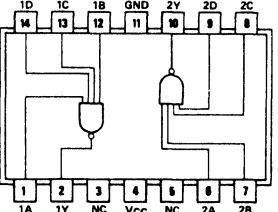
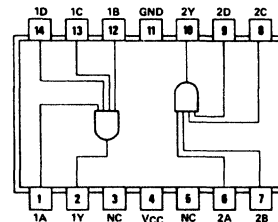
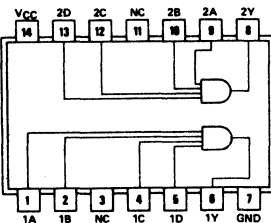
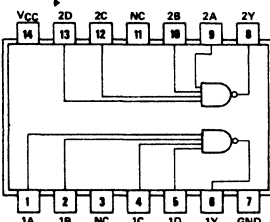
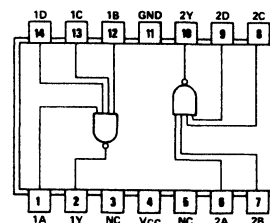
29. LOGIC/BLOCK DRAWINGS

45-55B Dual Binary to 1-of-4 Decoder	45-60B BCD Adder	45-85B 4-Bit Magnitude Comparator
<p>V_{DD} = Pin 16 V_{SS} = Pin 8</p>		

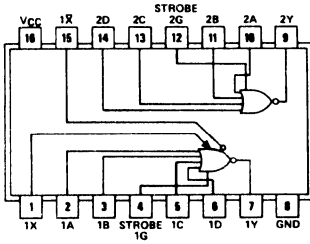
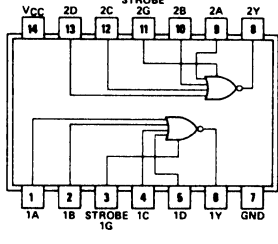
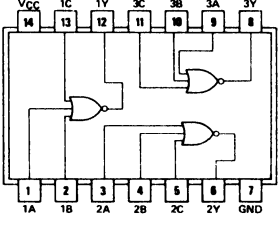
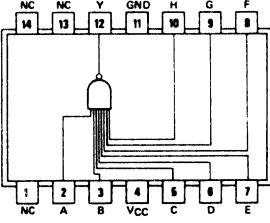
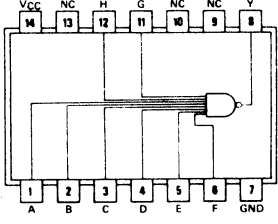
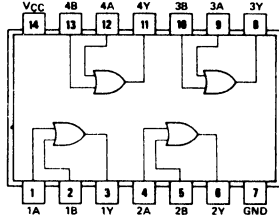
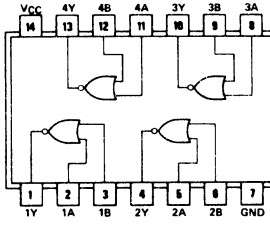
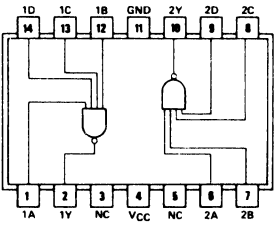
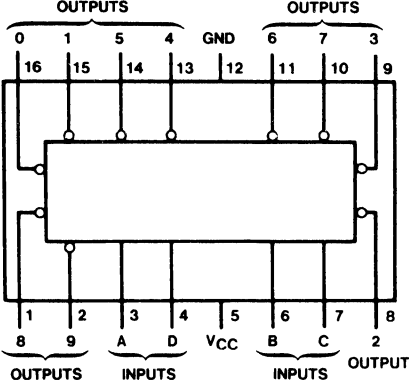
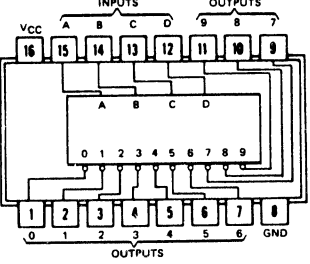
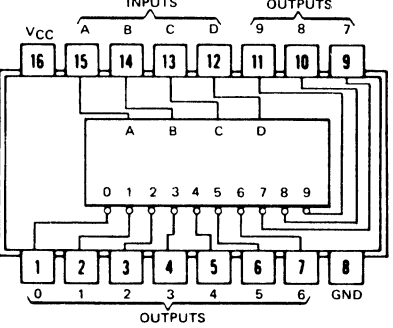
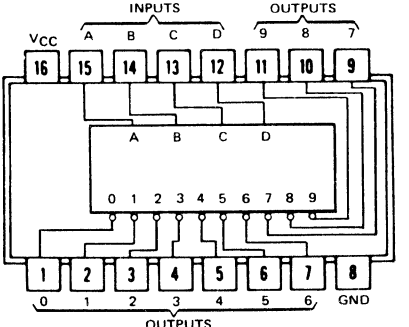
29. LOGIC/BLOCK DRAWINGS

<p>54-00W Quad 2-Input NAND Gates</p>	<p>54S00W Quad 2-Input NAND Gates</p>	<p>54-01W Quad 2-Input NAND Gates with Open Collector Output</p>
<p>54LS01W Quad 2-Input NAND Gates with Open Collector Output</p>	<p>54-02W Quad 2-Input NOR Gates</p>	<p>54S02W Quad 2-Input NOR Gates</p>
<p>54S03W Quad 2-Input NAND Gates with Open Collector Output</p>	<p>54S04W Hex Inverter</p>	<p>54S05W Hex Inverter with Open Collector Output</p>
<p>54S08W Quad 2-Input AND Gates</p>	<p>54S09W Quad 2-Input AND Gates with Open Collector Output</p>	<p>54-10W Triple 3-Input NAND Gates</p>

29. LOGIC/BLOCK DRAWINGS

<p>54S10W Triple 3-Input NAND Gates</p> 	<p>54H11W Triple 3-Input Positive-AND Gates</p> 	<p>54S11W Triple 3-Input AND Gates</p> 
<p>54-13W Dual 4-Input NAND Schmitt Trigger</p> 	<p>54H15W Triple 3-Input AND Gates with Open Collector Output</p> 	<p>54-18 Dual 4-Input NAND Gates</p> 
<p>54LS19 Schmitt Trigger Inverter with Totem Pole Output</p> 	<p>54-20W Dual 4-Input NAND Gates</p> 	<p>54H21W Dual 4-Input AND Gates</p> 
<p>54LS21W Dual 4-Input AND Gates</p> 	<p>54-22W Dual 4-Input NAND Gates with Open Collector Output</p> 	<p>54H22W Dual 4-Input AND Gates with Open Collector Output</p> 

29. LOGIC/BLOCK DRAWINGS

<p>54-23W Expandable Dual 4-Input NOR Gates with Strobe</p> 	<p>54-25W Dual 4-Input NOR Gates with Strobe</p> 	<p>54-27W Triple 3-Input NOR Gates</p> 
<p>54-30W 8-Input NAND Gate</p> 	<p>54S30W 8-Input NAND Gate</p> 	<p>54-32W Quad 2-Input OR Gates</p> 
<p>54-33W Quad 2-Input NOR Gates with Open Collector Output</p> 	<p>54-40W Dual 4-Input NAND Buffers</p> 	<p>54-41 Nixie Driver</p> 
<p>54LS42W 4-Line to 10 Line BCD to Decimal Decoder</p> 	<p>54-43W 4 Line to 10 Line Excess 3-Gray to Decimal Decoder</p> 	<p>54-44W 4 Line to 10 Line Excess 3-Gray to Decimal Decoder</p> 

29. LOGIC/BLOCK DRAWINGS

<p>54-45W BCD to Decimal Decoder/Driver</p>	<p>54-46W BCD to 7 Segment Decoder/Driver with Open Collector Output</p>	<p>54-50W Dual 2-Wide 2-Input AND-OR-INVERT Gates (One Gate Expandable)</p>
<p>54-51W Dual 2-Wide 2-Input AND-OR-INVERT Gates</p>	<p>54L51T Dual 2-Wide 2-Input AND-OR-INVERT Gates</p>	<p>54LS51W Dual 2-Wide 2-Input AND-OR-INVERT Gates</p>
<p>54S51W Dual 2-Wide 2-Input AND OR-INVERT Gates</p>	<p>54H52W Expandable 4-Wide AND-OR Gates</p>	<p>54-53W Expandable 4-Wide AND-OR-INVERT Gates</p>
<p>54H53W Expandable 4-Wide AND-OR-INVERT Gates</p>	<p>54-54W 4-Wide AND-OR-INVERT Gates</p>	<p>54H54W 2 Wide 4-Input AND-OR-INVERT Gates</p>

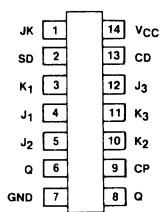
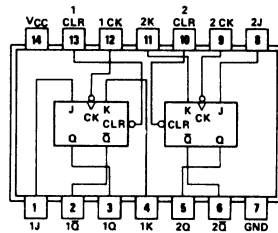
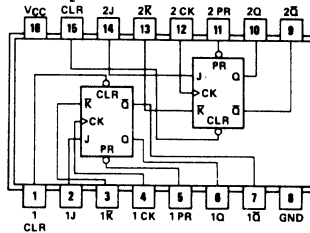
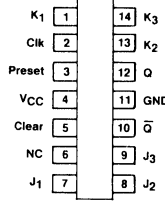
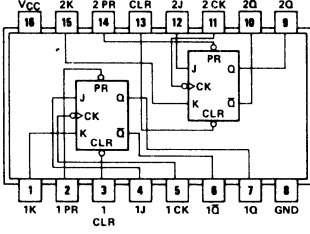
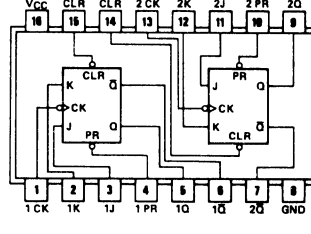
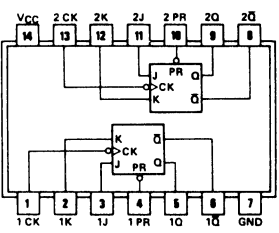
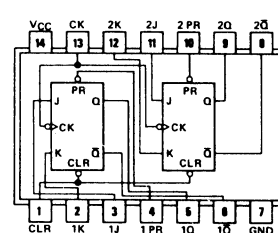
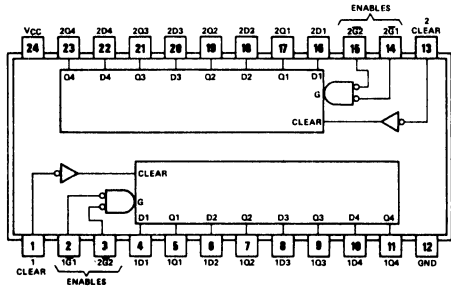
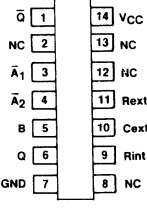
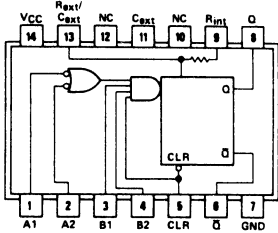
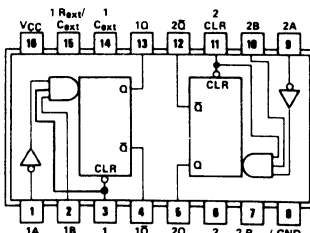
29. LOGIC/BLOCK DRAWINGS

<p>54LS4T 4-Wide AND-OR-INVERT Gates</p>	<p>54LS54W 2-Wide 4-Input AND-OR-INVERT Gates</p>	<p>54H55W 2-Wide 4-Input AND-OR-INVERT Gates</p>
<p>54LS5T 2-Wide 4-Input AND-OR-INVERT Gates</p>	<p>54LS55W 4-Wide AND-OR-INVERT Gates</p>	<p>54-60W Dual 4-Input Expanders</p>
<p>54H61W Triple 3-Input Expander</p>	<p>54H62W 4-Wide AND-OR Expanders</p>	<p>54S64W 4-2 3-2 Input AND-OR-INVERT Gates with Totem Pole Output</p>
<p>54-565W 4-2-3-2 Input AND-OR-INVERT Gates</p>	<p>54-70W AND Gated J-K Positive Edge Triggered Flip-Flop with Preset and Clear</p>	<p>54H71W AND OR Gated J-K Master Slave Flip-Flop with Preset</p>

29. LOGIC/BLOCK DRAWINGS

<p>54-83 4-Bit Binary Counter</p>	<p>54-85W 4-Bit Magnitude Comparators</p>	<p>54-86W Quad 2-Input Exclusive-OR Gates</p>
<p>54L86T Quad 2-Input Exclusive-OR Gates</p>	<p>54H87W 4-Bit True/Complement, Zero/One Elements</p>	<p>54-90W Decade Counter Divide-By Two/Divide by Five</p>
<p>54-92W Divide by Twelve Counter Divide by Two/Divide by Six</p>	<p>54L93T 4-Bit Binary Counter</p>	<p>54LS93W 4-Bit Binary Counter Divide by 2/Divide by 8</p>
<p>54-97 Synchronous 6-Bit Binary Rate Multiplier</p>	<p>54-100W 8-Bit Bistable Latches</p>	<p>54H103 Dual J-K Negative Edge-Triggered Flip-Flop with Clear</p>

29. LOGIC/BLOCK DRAWINGS

<p>54-104W Gated J-K Master/Slave Flip-Flop</p> 	<p>54-107F Dual J-K Master/Slave Flip-Flop with Clear</p> 	<p>54-109W Dual J-K Positive Edge Triggered Flip-Flop with Preset and Clear</p> 
<p>54-110W AND Gated J-K Master/Slave Flip-Flop with Data Lock</p> 	<p>54-111W Dual J-K Master/Slave Flip-Flop with Data Lock-Out</p> 	<p>54S112W Dual J-K Negative Edge Triggered Flip-Flop with Preset</p> 
<p>54S113W Dual J-K Negative Edge Triggered Flip-Flop with Preset</p> 	<p>54S114W Dual J-K Negative Edge Triggered Flip-Flop with Preset, common Clear and Common Clock</p> 	<p>54-116W Dual 4-Bit Latches</p> 
<p>54-121 Monostable Multivibrator</p> 	<p>54-122 Retriggerable Monostable Multivibrator with Clear</p> 	<p>54-123 Dual Retriggerable Monostable Multivibrator with Clear</p> 

29. LOGIC/BLOCK DRAWINGS

<p>54LS124 Dual Voltage-Controlled Oscillator</p>	<p>54S133W 13-Input NAND Gates</p>	<p>54S134W 12-Input NAND Gates with 3-State Output</p>
<p>54S135W Quadruple Exclusive-OR/NOR Gates</p>	<p>54-136W Quad Exclusive-OR Gates</p>	<p>54S138W 3-8 Line Decoder/Multiplexer</p>
<p>54S139W Dual 2-4 Line Decoder/Multiplexer</p>	<p>54-141W BCD To Decimal Decoder/Nixie Driver</p>	<p>54-154W 4-Line to 16 Line Decoder/Demultiplexer</p>
<p>54-155W Decoder/Demultiplexer with Totem-Pole Output</p>	<p>54-156W Decoder/Demultiplexer with Open Collector Output</p>	<p>54-160W Synchronous 4-Bit Decade Counter with Direct Clear</p>

29. LOGIC/BLOCK DRAWINGS

<p>54-161W Synchronous 4-Bit Binary Counter with Direct Clear</p>	<p>54-162W Synchronous 4-Bit Decade Counter with Synchronous Clear</p>	<p>54-163W Synchronous 4-Bit Binary Counters with Synchronous Clear</p>
<p>54S168W 4-Bit Up/Down Synchronous Decade Counter</p>	<p>54S169W 4-Bit Up/Down Synchronous Binary Counter</p>	<p>54-173W 4-Bit D-Type Register with 3-State Output</p>
<p>54-175W Quad D-Type Flip-Flop</p>	<p>54-176W Presettable Decade(Bi-Quinary) Counter/Latches</p>	<p>54-177W Presettable Binary Counter /Latches</p>
<p>54-180W 9-Bit Odd/Even Parity Generator/Checker</p>	<p>54-182 Look-Ahead Carry Generator</p>	<p>54H183W Dual Carry Save Full Adder</p>

29. LOGIC/BLOCK DRAWINGS

<p>54-190W Synchronous Up/Down BCD Counter</p>	<p>54-191W Synchronous Up/Down Binary Counter</p>	<p>54-192W Synchronous Up/Down Dual Clock BCD Counter with Clear</p>
<p>54-193W Synchronous Up/Down Dual Clock Binary Counter with Clear</p>	<p>54-221 Dual Monostable Multivibrator</p>	<p>54LS256W Dual 4-Bit Addressable Latch</p> <p>VCC OR V_{DD} = PIN 16 GND OR V_{SS} = PIN 8</p> <p>* Clock for b section is Active Low</p>
<p>54-259W 8-Bit Addressable Latches</p>	<p>54S260W Dual 5-Input NOR Gates</p>	<p>54LS261 2-Bit-by-4-Bit Parallel Binary Multiplier</p>
<p>54-265W Quad Complementary Output Element</p>	<p>54LS266 Quad 2-Input Exclusive NOR Gates with Open Collector Output</p>	<p>54LS273W Octal D-Type Flip-Flop</p>

29. LOGIC/BLOCK DRAWINGS

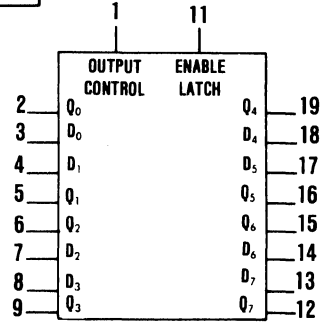
<p>54-279W Quad S-R Latches with Totem Pole Output</p>	<p>54S280W 9-Bit Odd/Even Parity Generator Checked N-Bit Cascadeable</p>	<p>54-283 4-Bit Full Adder with Fast Carry</p>
<p>54-284 4-Bit by 4-Bit Parallel Binary Multiplier</p>	<p>54-285 4-Bit by 4-Bit Parallel Binary Multiplier</p>	<p>54-290W 4-Bit Decade Counter Divide by Two/Divide by Five</p>
<p>54LS292 Programmable Frequency Divider/Digital Timer</p>	<p>54-293W 4-Bit Binary Counter Divide by Two/Divide by Eight</p>	<p>54LS294 Programmable Frequency Divider/Digital Timer</p>
<p>54LS320</p>	<p>54LS321</p>	<p>54LS324 Voltage-Controlled Oscillator</p>

29. LOGIC/BLOCK DRAWINGS

<p>54LS325 Voltage-Controlled Oscillator</p>	<p>54LS326 Voltage-Controlled Oscillator</p>	<p>54LS327 Voltage-Controlled Oscillator</p>
<p>54LS363W Octal D-Type Latch with 3-State Output</p>	<p>54LS374W Octal D-Type Flip-Flop with 3-State Output</p>	<p>54LS374W Octal D-Type Edge Triggered Flip-Flop with 3-State Outputs</p>
<p>54LS374W Octal D-Type Edge Triggered Flip-Flop with 3-State Outputs</p>	<p>54LS375W 4-Bit Bistable Latch</p>	<p>54-376W Quad J-K Flip-Flop Common Clock and Common Clear</p>
<p>54LS377W Quad D-Type Flip-Flop with Single Rail Output</p>	<p>54LS378W Hex D-Type Flip-Flop with Single Rail Output</p>	<p>54LS381 Arithmetic Logic Unit/Function Generator</p>

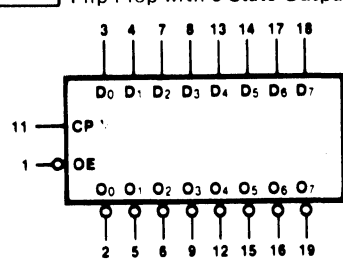
29. LOGIC/BLOCK DRAWINGS

54LS563W 8-Bit Latch Transparent D-Type with 3-State Output



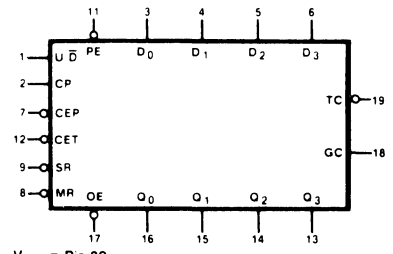
Vcc = pin 20
Gnd = pin 10

54LS564W Octal D-Type Edge Triggered Flip Flop with 3-State Output



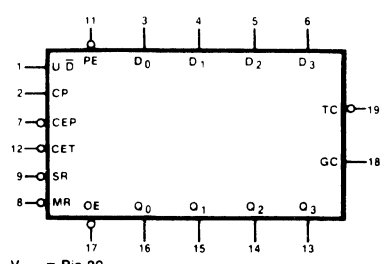
Vcc = Pin 20
GND = Pin 10

54LS568W Up/Down Decade Counter with 3-State Output



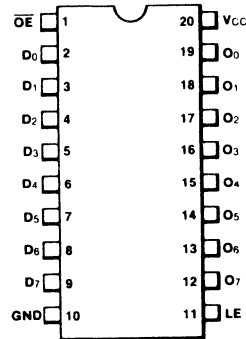
Vcc = Pin 20
GND = Pin 10

54-569W Up/Down Binary Counter with 3-State Output

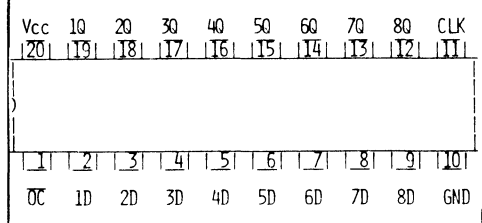


Vcc = Pin 20
GND = Pin 10

54LS573W Octal D-Type Latch with 3-State Output



54LS574W Octal D-Type Flip Flop with 3-State Output



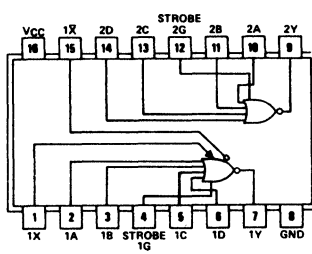
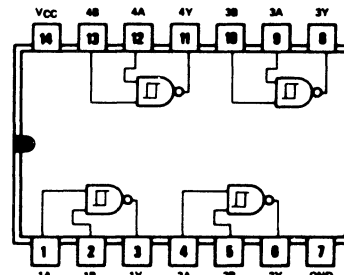
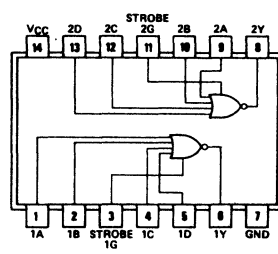
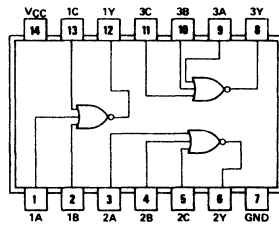
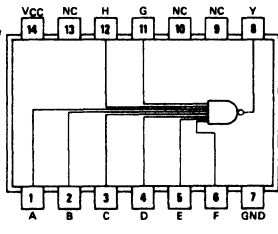
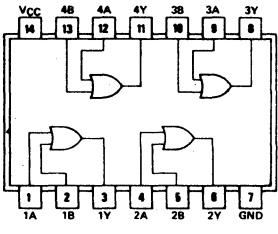
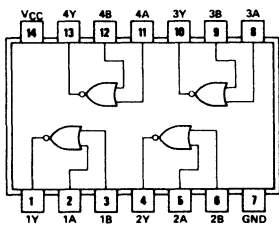
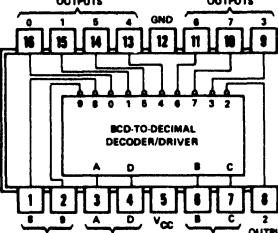
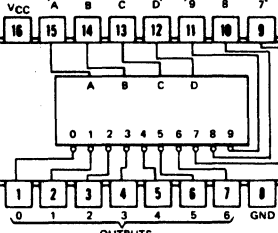
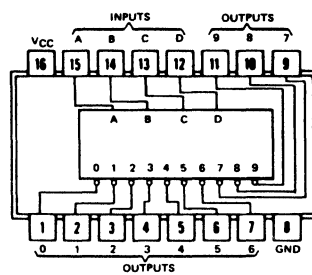
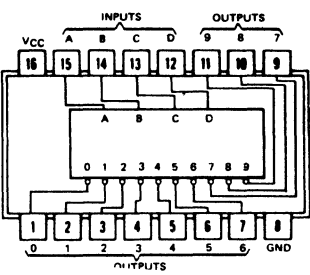
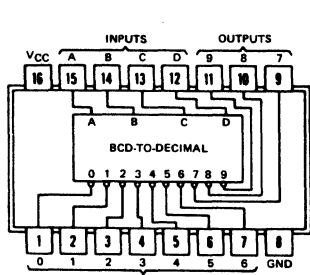
29. LOGIC/BLOCK DRAWINGS

<p>74-00N Quad 2-Input NAND Gates</p>	<p>74-01N Quad 2-Input NAND Gates with Collector Output</p>	<p>74-02N Quad 2-Input NOR Gates</p>
<p>72H02P Quad 2-Input Nor Gate</p>	<p>74-03N Quad 2-Input NAND Gates with Open Collector Output</p>	<p>74-04N Hex Inverter</p>
<p>74-05N Hex Inverter with Open Collector Output</p>	<p>74-06 Hex Inverter Buffer/Driver with Open Collector</p>	<p>74-08N Quad 2-Input AND Gates</p>
<p>74-09N Quad 2-Input AND Gates with Open Collector Output</p>	<p>74-10N Triple 3-Input NAND Gates</p>	<p>74-11N Triple 3-Input AND Gates</p>

29. LOGIC/BLOCK DRAWINGS

<p>74-12N Triple 3-Input NAND Gates with Open Collector Output</p>	<p>74-13N Dual 4-Input NAND Schmitt Trigger</p>	<p>74-15 Triple 3-Input And Gate</p>
<p>74H15N Triple 3-Input AND Gates with Open Collector Output</p>	<p>74-16 Hex Inverter/Buffer with Open Collector</p>	<p>74LS18 Dual 4-Input NAND Gates</p>
<p>74LS19 Schmitt Trigger Inverter with Totem Pole Output</p>	<p>74-20 Dual 4-Input N and Gate</p>	<p>74H20 Dual 4-Input NAND Gates</p>
<p>74-21 Dual 4-Input And Gate</p>	<p>74H21N Dual 4-Input AND Gates</p>	<p>74-22N Dual 4-Input NAND Gates with Open Collector Output</p>

29. LOGIC/BLOCK DRAWINGS

<p>74-23N Expandable Dual 4-Input NOR Gates with Strobe</p> 	<p>74LS24 Schmitt Trigger NAND Gates/ Inverter with Totem Pole Output</p> 	<p>74-25N Dual 4-Input NOR Gates with Strobe</p> 
<p>74-27N Triple 3-Input NOR Gates</p> 	<p>74-30N 8-Input NAND Gates</p> 	<p>74-32N Quad 2-Input OR Gates</p> 
<p>74-33N Quad 2-Input NOR Gates with Open Collector Output</p> 	<p>74-41N Nixie Drive</p> 	<p>74-42N 4 Line to 10 Line BCD to Decimal Decoder</p> 
<p>74-43N 4 Line to 10 Line Excess-3 to Decimal Decoder</p> 	<p>74-44N 4 Line to 10 Line Excess 3-Gray to Decimal Decoder</p> 	<p>74-45N BCD to Decimal Decoder/Driver</p> 

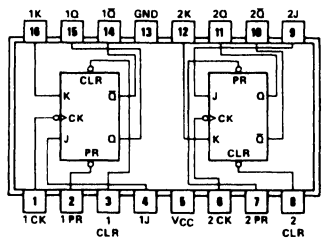
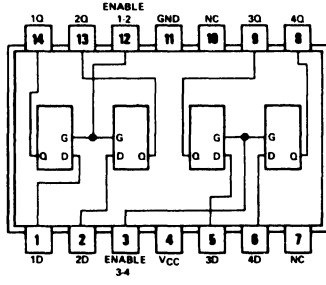
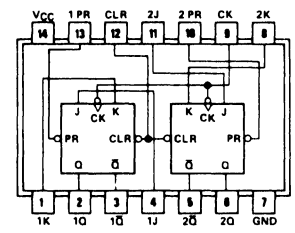
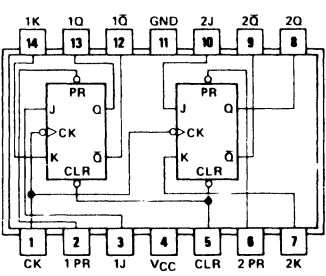
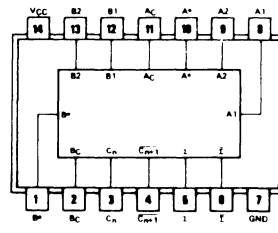
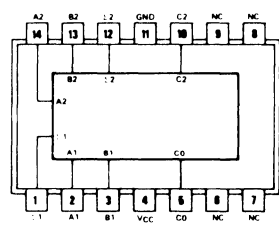
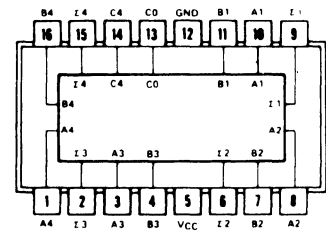
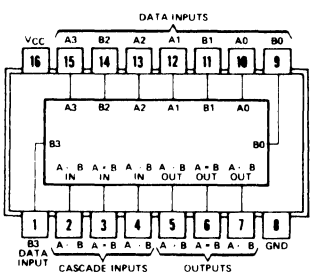
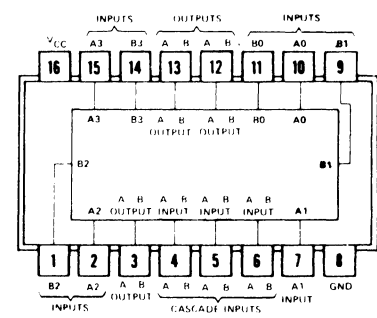
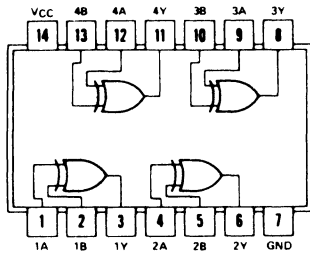
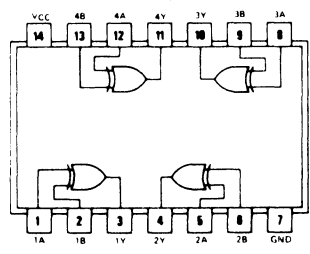
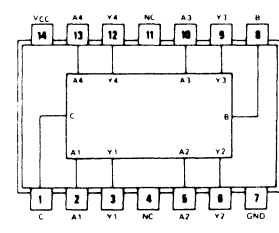
29. LOGIC/BLOCK DRAWINGS

<p>74-46N BCD to 7 Segment Decoder/Driver with Open Collector Output</p>	<p>74-48N BCD-TO-Seven-Segment Decoder/Drivers</p>	<p>74LS49N BCD- TO-Seven- Segment Decoder/Driver s</p>
<p>74-50N</p> <p>Dual 2-Wide 2-Input AND -OR-INVERT Gates (One Gate Expandable)</p>	<p>74L51N</p> <p>Dual 2-Wide 2-Input AND-OR-INVERT Gates</p>	<p>74LS51N</p> <p>2-Wide 3-Input, 2-Wide 2 Input, AND-OR-Invert Gates</p>
<p>74H52N Expandable 4-Wide AND-OR Gates</p>	<p>74-53N</p> <p>Expandable 4-Wide AND-OR-INVERT Gates</p>	<p>74H53N</p> <p>Expandable 4-Wide AND OR INVERT Gates</p>
<p>74H54N 4-Wide AND OR INVERT Gates</p> <p>MAKE NO EXTERNAL CONNECTION</p>	<p>74L54N 4-Wide AND OR-INVERT Gates</p>	<p>74H55N 4-Wide AND-OR-INVERT Gates</p>

29. LOGIC/BLOCK DRAWINGS

<p>74L55N</p> <p>2-Wide 4-Input AND-OR-INVERT Gates</p>	<p>74-60N</p> <p>2-Wide 4-Input AND-OR-INVERT Gates</p>	<p>74H61N</p> <p>Triple 3-Input Expanders</p>
<p>74H62N</p> <p>4-Wide AND-OR Expanders</p>	<p>74S64N</p> <p>4-2 3-2 Input AND-OR-INVERT Gates with Totem Pole Output</p>	<p>74S65N</p> <p>4-Wide AND-OR-INVERT Gates with Open Collector Outputs</p>
<p>74-70N</p> <p>And Gated J-K Positive Edge Triggered Flip-Flop with Preset and Clear</p>	<p>74H71N</p> <p>AND-OR Gated J-K Master/Slave Flip Flop with Preset</p>	<p>74L71N</p> <p>AND-OR -Gated J-K Master/Slave Flip-Flop with Preset</p>
<p>74-73N</p> <p>Dual J-K Flip-Flop with Clear</p>	<p>74-74N</p> <p>Dual D-Type Positive Edge Triggered Flip-Flop with Preset and Clear</p>	<p>74-75N</p> <p>4-Bit Bistable Latch</p>

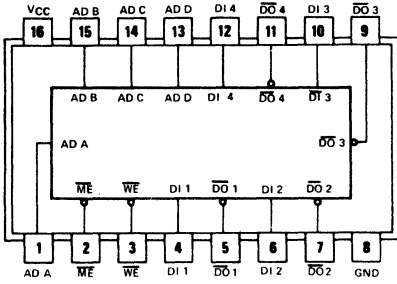
29. LOGIC/BLOCK DRAWINGS

<p>74LS76N Dual J-K Flip-Flop with Preset and Clear</p> 	<p>74LS77N 4-Bit Bistable Latch</p> 	<p>74H78N Dual J-K Flip-Flop with Preset, Common Clear and Common Clock</p> 
<p>74L78N Dual J-K Flip-Flops with PRESET, Preset, Common Clear, and Common and Common Clock</p> 	<p>74-80N Gated Full Adders</p> 	<p>74-82N 2-Bit Binary Full Adders</p> 
<p>74-83 4-Bit Binary Full Adder with Fast Carry</p> 	<p>74-85N 4-Bit Magnitude Comparator</p> 	<p>74L85N 4-Bit Magnitude Comparator</p> 
<p>74-86N Quad 2-Input Exclusive OR Gates</p> 	<p>74L86N Quad 2-Input Exclusive Or Gates</p> 	<p>74H87N 4-Bit True/Complement, Zero/One Elements</p> 

29. LOGIC/BLOCK DRAWINGS

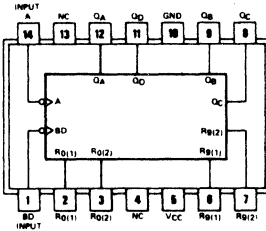
74H89P

64-Bit Read/Write Memories



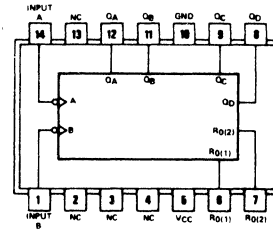
74-90N

Decade Counter
Divide by Two/Divide by Five



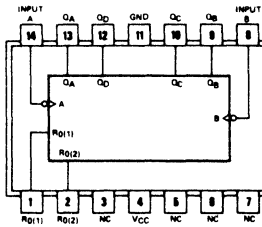
74-92N

Divide by 12 Counter
Divide by Two/Divide by Six



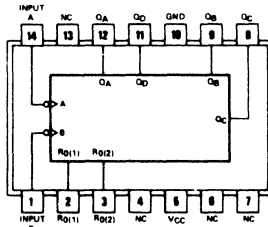
74L93N

4-Bit Binary Counter
Divide by Two/Divide by Eight



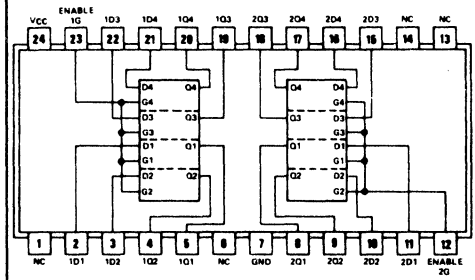
74LS93N

4-Bit Binary Counter
Divide by Two/Divide by Eight



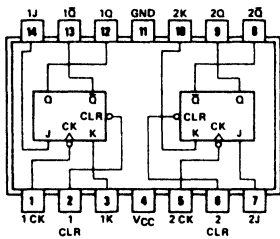
74-100N

8-Bit BiStable Latch



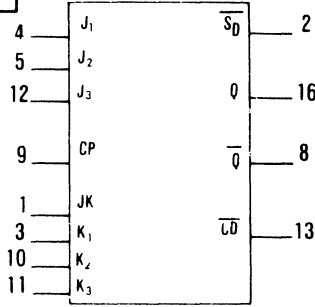
74H103

Dual J-K Negative Edge Triggered
Flip-Flop with Clear



74-104N

Gated J-K Master/Slave Flip-Flop

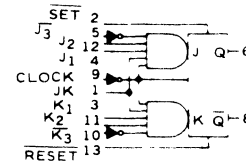


Vcc = pin 14

Gnd = pin 7

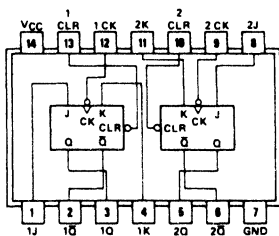
74-105N

Gated J-K Master/Slave Flip-Flop



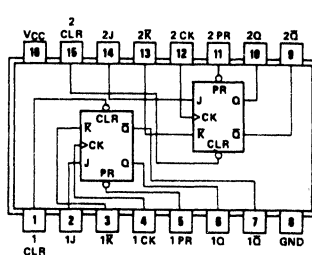
74-107N

Dual J-K Master/Slave Flip-Flop
with Clear

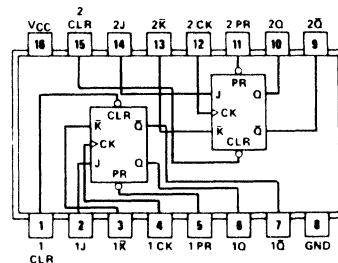


74-109N

Dual J-K Positive Edge Triggered
Flip-Flop with Preset and Clear



74LS109



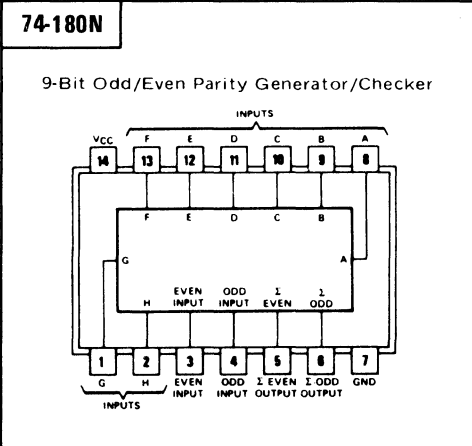
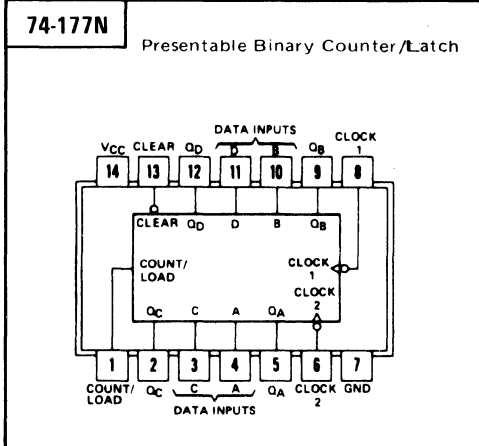
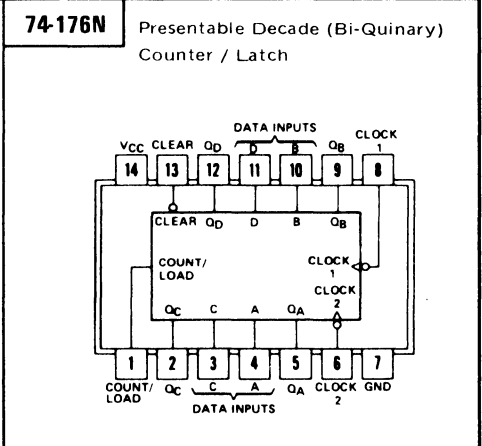
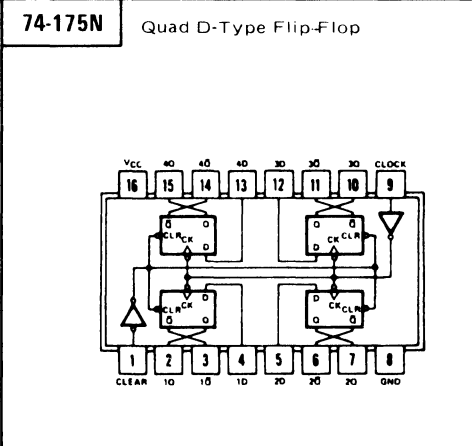
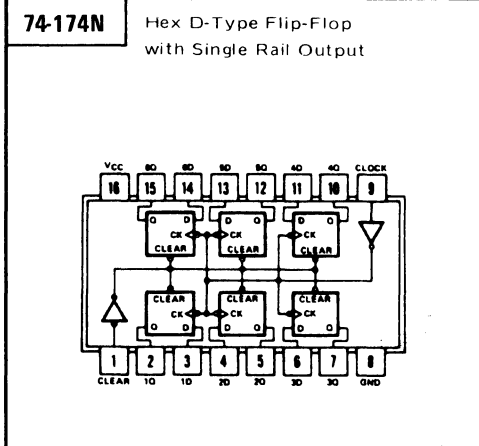
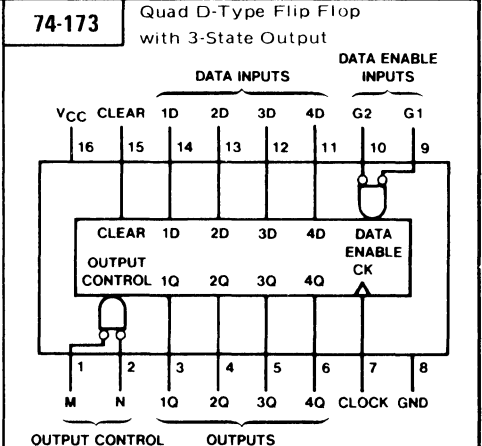
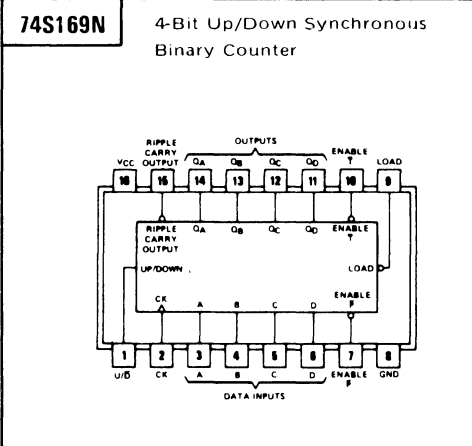
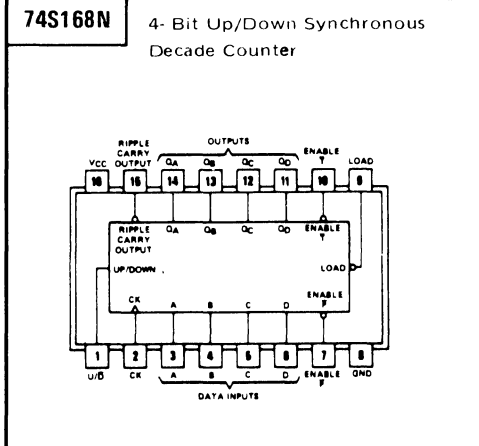
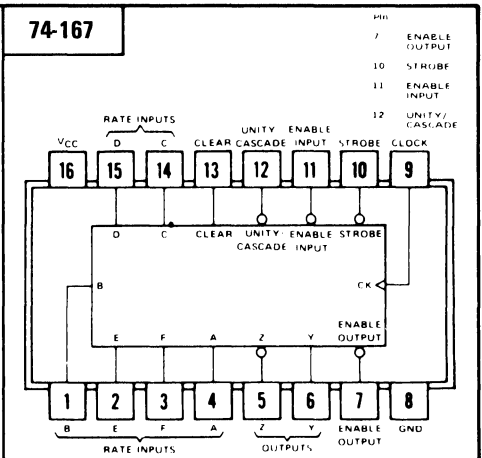
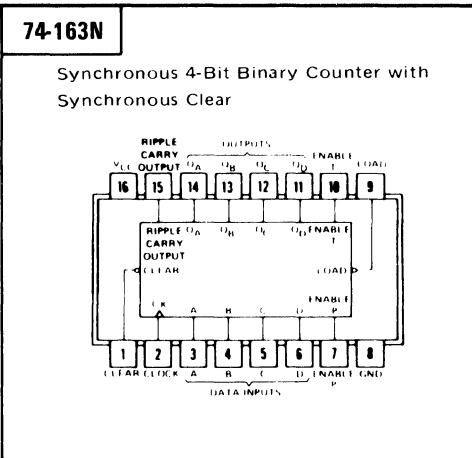
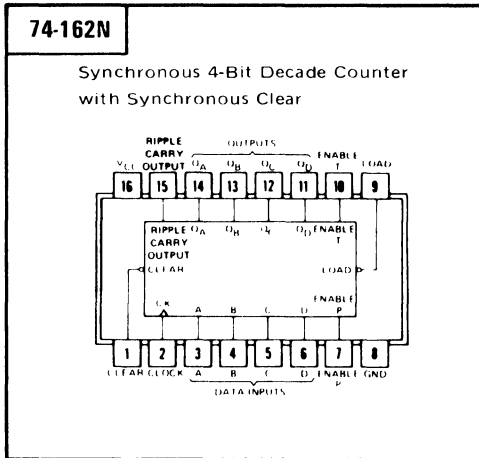
29. LOGIC/BLOCK DRAWINGS

<p>74-111N Dual J-K Master/Slave Flip-Flop with Data Lockout</p>	<p>74LS112N Dual J-K Negative Edge Triggered Flip-Flop with Preset and Clear</p>	<p>74LS113N Dual J-K Negative Edge Triggered Flip-Flop with Preset</p>
<p>74LS114N Dual J-K Negative Edge Triggered Flip-Flop with Preset, Common Clear and Common Clock</p>	<p>74-116N Dual 4-Bit Latch</p>	<p>74H116P AND Input J-K Flip-Flop</p>
<p>74H119P Dual J-K Flip-Flop</p>	<p>74-121 Monostable Multivibrator</p>	<p>74-122 Retriggerable Monostable Multivibrator with Clear</p>
<p>74-123 Dual Retriggerable Monostable Multivibrator with Clear</p>	<p>74LS124 Dual Volt Controlled Oscillator with Enable Inputs</p>	<p>74-133 13-Input N and Gate</p>

29. LOGIC/BLOCK DRAWINGS

<p>74S133 13-Input Positive-NAND</p>	<p>74LS133N 13-Input NAND Gates</p>	<p>74S134N 12 Input NAND Gates with 3-State</p>
<p>74S135N Quad Exclusive OR/NOR Gates</p>	<p>74-136N Quad Exclusive OR Gates</p>	<p>74S138N 3-8 Line Decoder/Multiplexer</p>
<p>74S139N Dual 2-4 Line Decoder/Multiplexer</p>	<p>74-154N 4-Line to 16-Line Decoder/Demultiplexer</p>	<p>74-155N Decoder/Demultiplexer with Totem-Pole Output</p>
<p>74-156N Decoder/Demultiplexer with Open Collector Output</p>	<p>74-160N Synchronous 4-Bit Decade Counter with Direct Clear</p>	<p>74-161N Synchronous 4-Bit Decade Counter with Direct Clear</p>

29. LOGIC/BLOCK DRAWINGS



29. LOGIC/BLOCK DRAWINGS

<p>74-181 4-Bit Arithmetic Logic Unit</p>	<p>74-182 Look-Ahead Carry Generator</p>	
<p>74H183N Dual Carry Save Full Adder</p>	<p>74-190N Synchronous Up/Down BCD Counter</p>	<p>74-191N Synchronous Up/Down Binary Counter</p>
<p>74-192N Synchronous Up/Down Dual Clock BCD Counter with Clear</p>	<p>74-193N Synchronous Up/Down Dual Binary Clock Counter with Clear</p>	<p>74-221N Dual Monostable Multivibrator</p>
<p>74S240N Octal Buffers/Line Drivers/Line Receivers</p>	<p>74S241N Octal Buffers/Line Drivers/Line Receivers</p>	<p>74LS244N Octal Buffers/Line Drivers/Line Receivers with 3-State Outputs</p>

29. LOGIC/BLOCK DRAWINGS

<p>74-246 (M74LS248P)-BCD-to-Seven-Segment Decoder/Driver</p>	<p>74-248 (M74LS248P)-BCD-to-Seven-Segment Decoder/Driver</p>	<p>74LS256N Dual 4-Bit Addressable Latch</p> <p>VCC OR VDD = PIN 16 GND OR VSS = PIN 8</p> <p>* Clock for b Section is Active Low</p>
<p>74-259N 8-Bit Addressable Latch</p>	<p>74S260N Dual 4-Input Nor Gates</p>	<p>74LS261 2-Bit-by-4-Bit Parallel Binary Multiplier</p> <p>(TOP VIEW)</p>
<p>74-265N Quad Complementary Output Element</p>	<p>74LS266N Quad 2-Input Exclusive NOR Gates with Open Collector Output</p>	<p>74-273N Octal D-Type Flip-Flop</p>
<p>74S274 4-Bit-by-4-Bit Binary Multiplier with 3-State Outputs.</p>	<p>74S275 7-Bit-Slice Wallace Trees with 3-State Outputs</p>	<p>74-276N Quad J-K Flip-Flop</p>

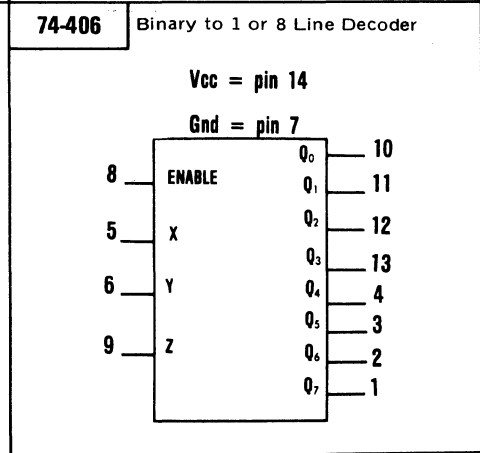
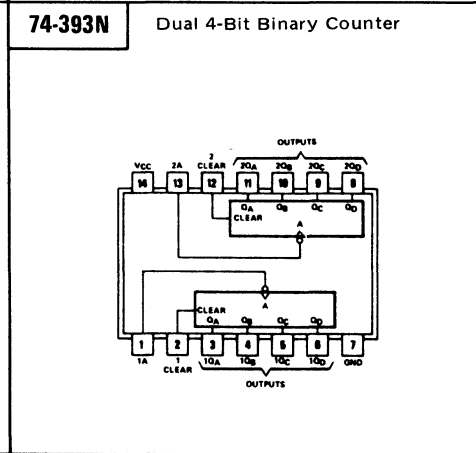
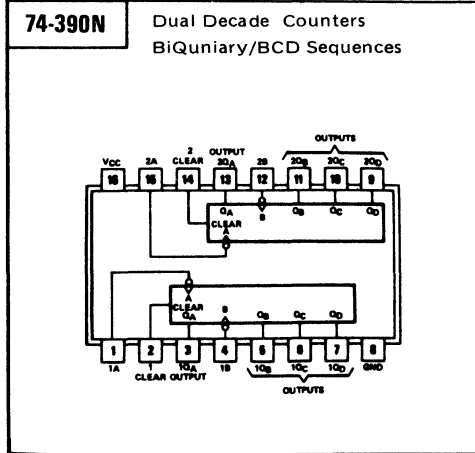
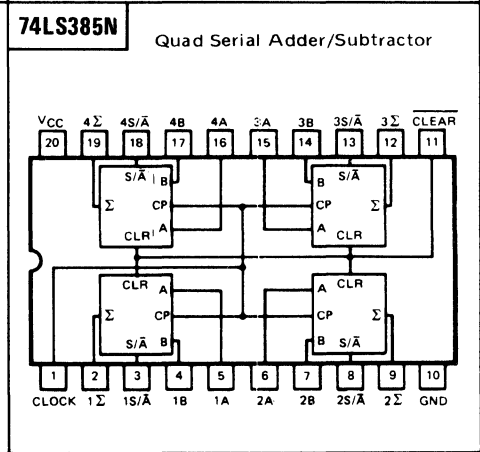
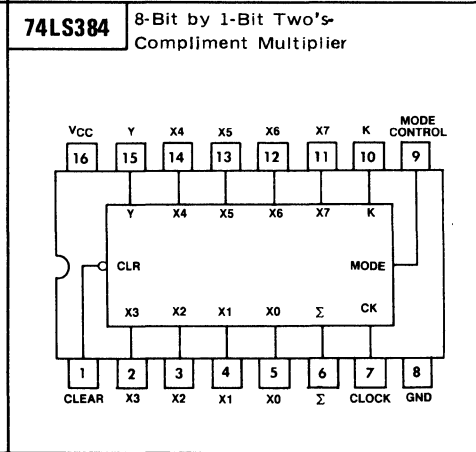
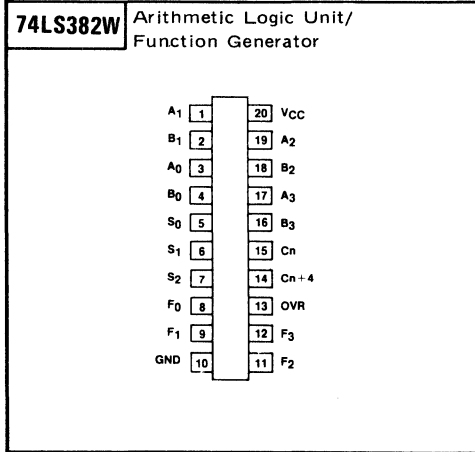
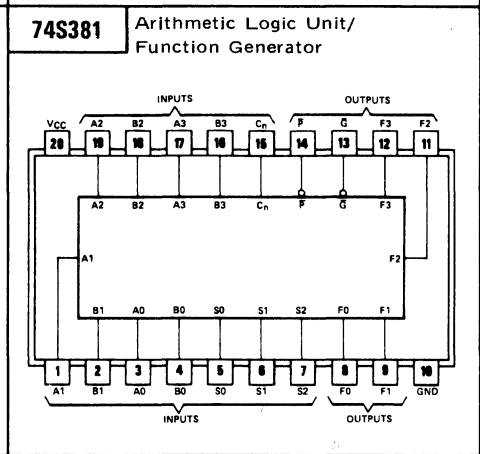
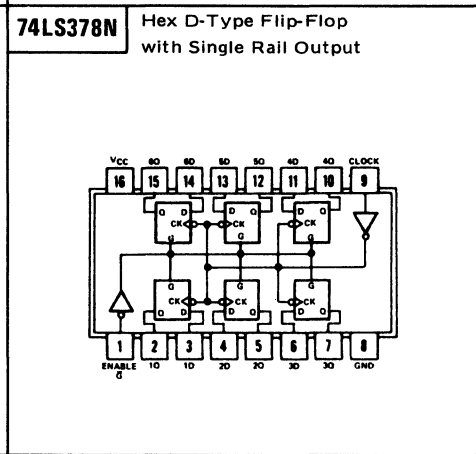
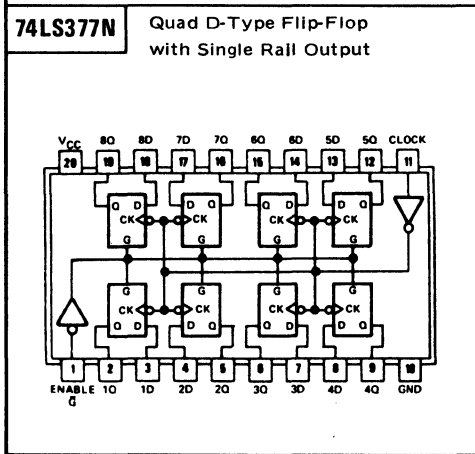
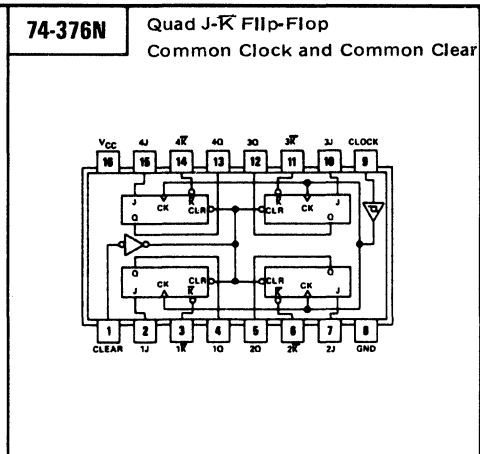
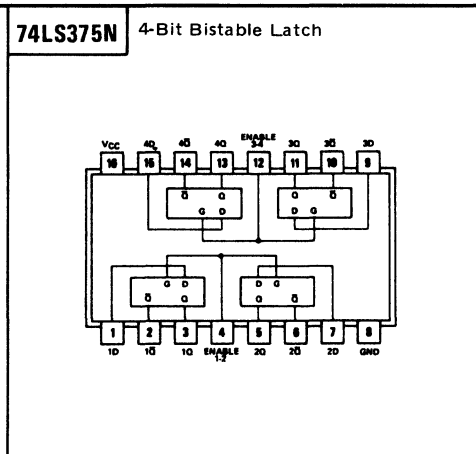
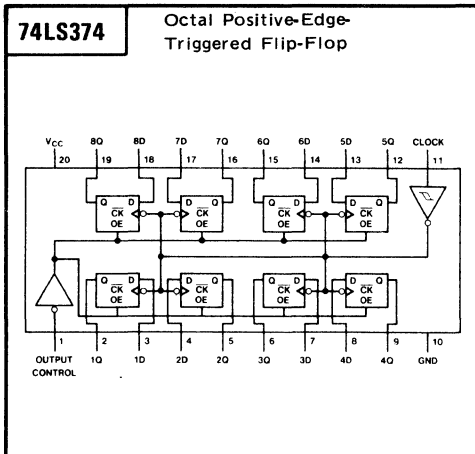
29. LOGIC/BLOCK DRAWINGS

<p>74-279N Quad \bar{S}-R Latch with Totem Pole Output</p>	<p>74S280N 9-Bit Odd/Even Parity Generator Checker N-Bit Cascadeable</p>	<p>74-283N 4-Bit Binary Full Adder with Fast Carry</p>
<p>74-284 4-Bit by 4-Bit Parallel Binary Multiplier</p>	<p>74-285 4-Bit by 4-Bit Parallel Binary Multiplier</p>	<p>74-290N 4-Bit Decade Counter Divide by Two/Divide by Five</p>
<p>74LS292 Programmable Frequency Divider/Digital Timer</p>	<p>74-293N 4-Bit Binary Counter Divide by Two/Divide by Eight</p>	<p>74LS294 Programmable Frequency Divider/Digital Timer</p>
<p>74LS320 Hex D Flip-Flop</p>	<p>74LS321 Hex D Flip-Flop</p>	<p>74LS324 Voltage-Controlled Oscillators</p>

29. LOGIC/BLOCK DRAWINGS

<p>74LS325 Voltage-Controlled Oscillators</p>	<p>74LS326 Voltage-Controlled Oscillators</p>	<p>74LS327 Voltage-Controlled Oscillators</p>
<p>74LS363N Octal D-Type Latch with 3-State Output</p>	<p>74LS364N Octal D-Type Flip Flop with 3-State Output</p>	<p>74-365N Hex Bus Driver with Noninverted 3-State Outputs</p>
<p>74-366N Hex Bus Driver with Inverted 3-State Outputs</p>	<p>74-367N Hex Bus Driver with Noninverted 3-State Outputs</p>	<p>74-368N Hex Bus Driver with Inverted 3-State Outputs</p>
<p>74LS373 Octal D-Type Latch with 3-State Output</p>	<p>74-374 Octal D Flip-Flop with 3-State Outputs</p> <p>VCC = Pin 20 GND = Pin 10</p>	

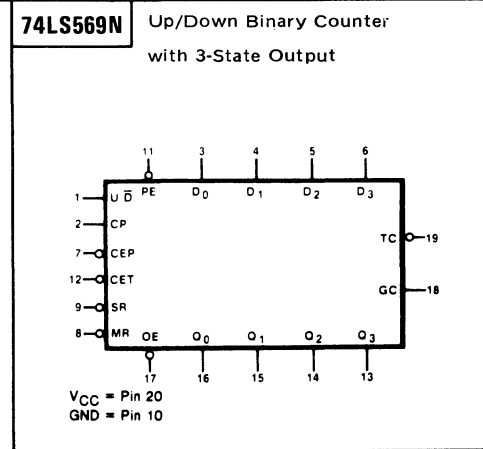
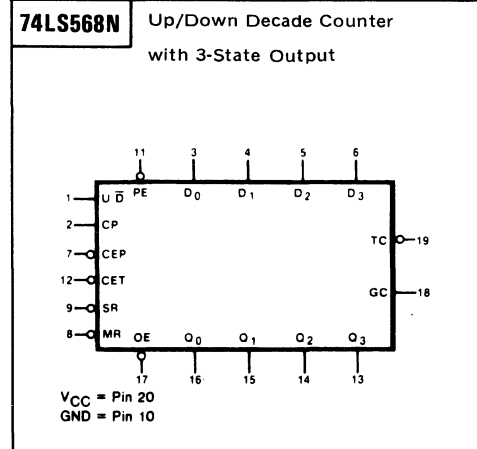
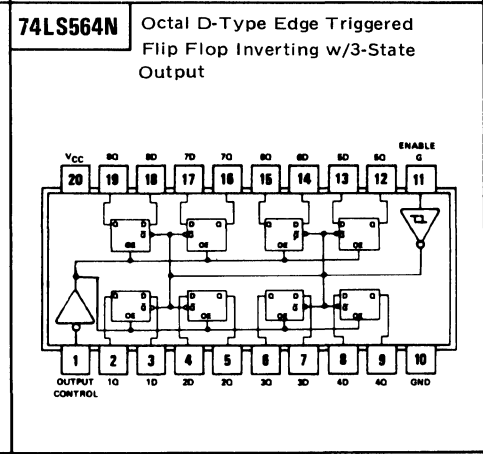
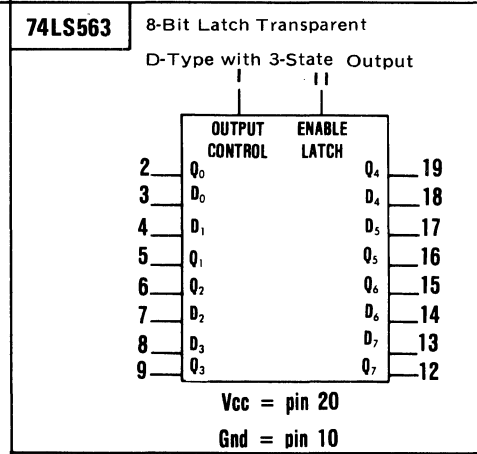
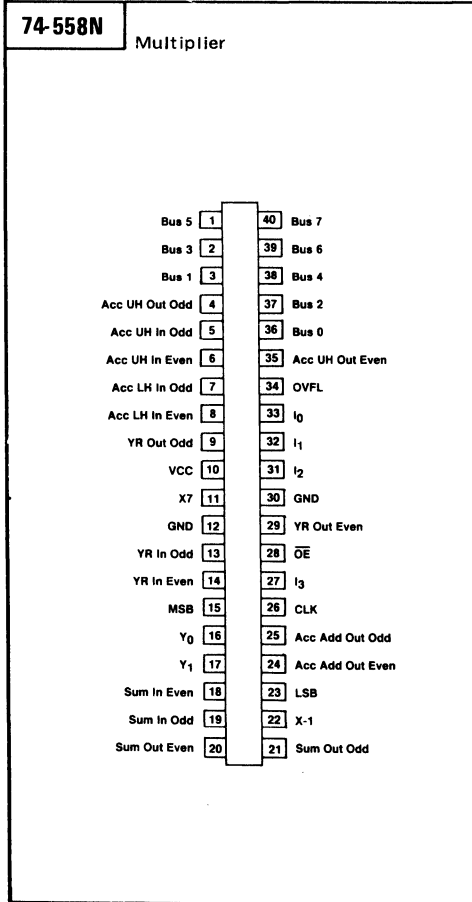
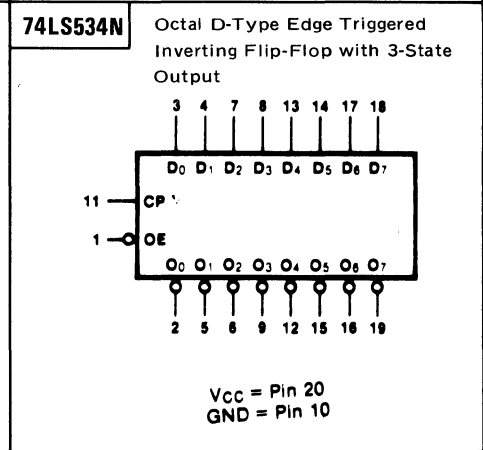
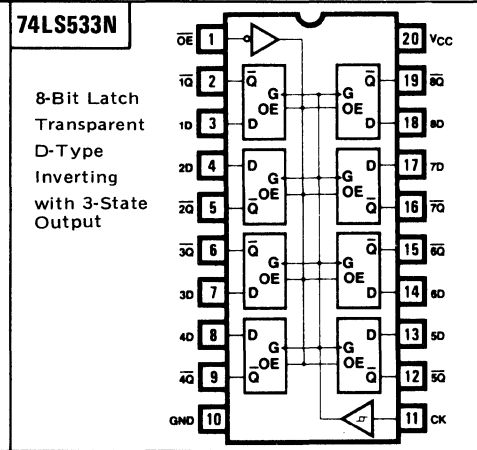
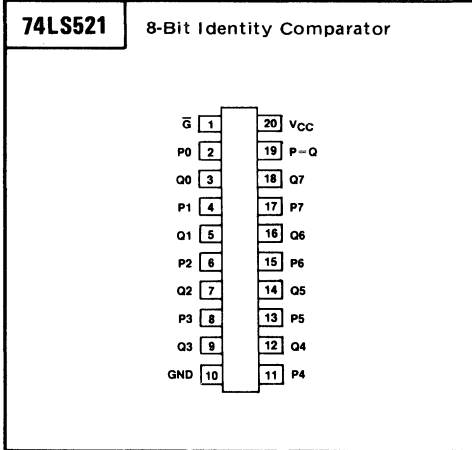
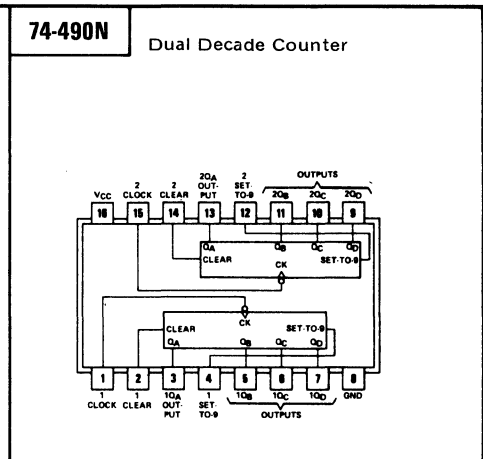
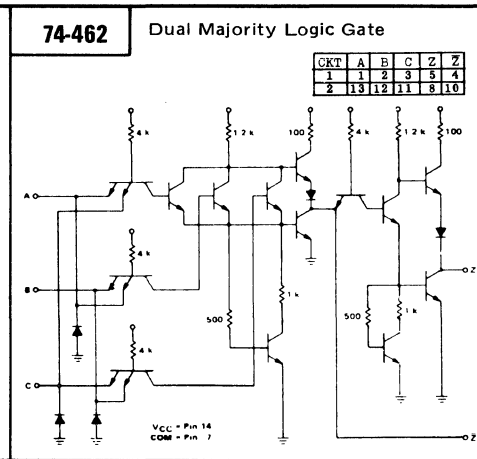
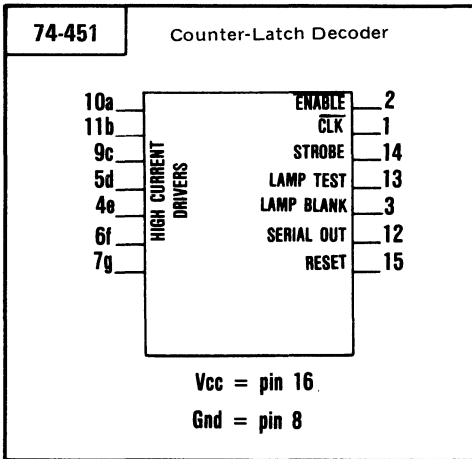
29. LOGIC/BLOCK DRAWINGS



29. LOGIC/BLOCK DRAWINGS

<p>74-408P 8-Bit Parity Tree</p> <p>VCC = PIN 14 GND = PIN 7</p>	<p>74S412 Multi-Mode Buffered Latch with 3-State Outputs</p>	<p>74-415N Quad D Type Flip-Flop</p>
<p>74-416N Programmable Modulo N-Decade Counter</p> <p>Vcc = pin 16 Gnd = pin 8</p>	<p>74-417N Programmable Modulo 2, Modulo 5 Counter</p> <p>Vcc = pin 16 Gnd = pin 8</p>	<p>74-418N Programmable Modulo N-Hexadecimal Counter</p> <p>Vcc = pin 16 Gnd = pin 8</p>
<p>74-419N Dual Programmable Modulo 4 Counter</p> <p>Vcc = pin 16 Gnd = pin 8</p>	<p>74-421 Dual 4-Bit Comparator with Open Collector Outputs</p> <p>Vcc = pin 16 Gnd = pin 8</p>	<p>74-422 Dual 4-Bit Comparator</p> <p>Vcc = pin 16 Gnd = pin 8</p>
<p>74LS424 Two Phase Clock Generator/Driver for 8080A</p>	<p>74LS442N Quad TriDirectional Bus Transceiver with 3-State Outputs</p>	<p>74-450 Counter-Latch Decoder</p> <p>Vcc = pin 16 Gnd = pin 8</p>

29. LOGIC/BLOCK DRAWINGS



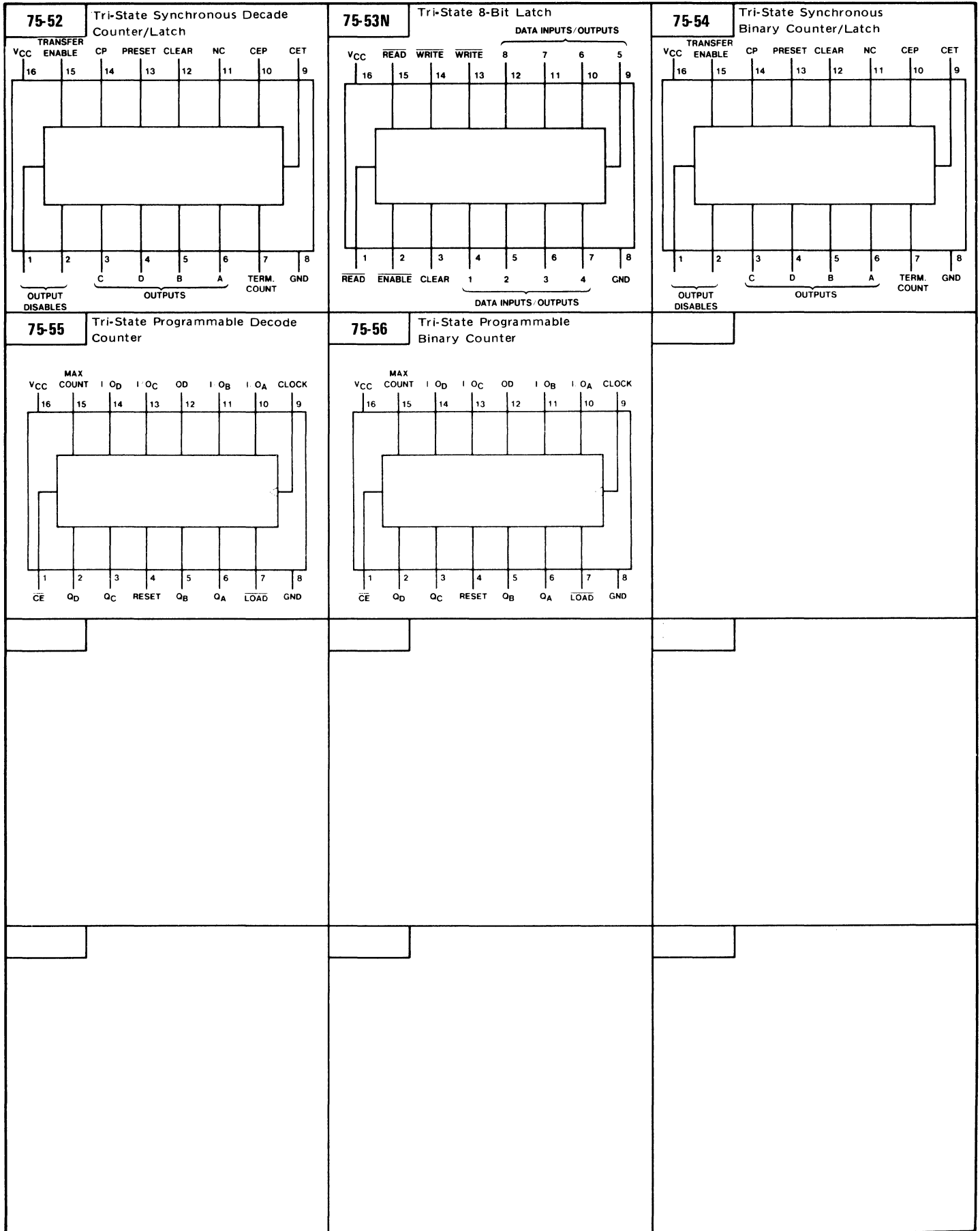
29. LOGIC/BLOCK DRAWINGS

<p>74LS573N Octal D-Type Latch with 3-State Output</p>	<p>74LS574N Octal D-Type Flip Flop with 3-State Output</p>	<p>74AS576 Octal D-Type Edge-Triggered Flip-Flop with 3-State Output</p>
<p>74AS580 Octal D-Type Transparent Latch with 3-State Output</p>	<p>74LS604 Octal 2-Input Multiplexed Latch with Open Collector Output</p>	<p>74LS605 Octal 2-Input Multiplexed Latch with 3-State Output</p>
<p>74LS606 Octal 2-Input Multiplexed Latch with 3-State Output</p>	<p>74LS607 Octal 2-Input Multiplexed Latch with Open Collector Output</p>	<p>74AS800 Triple 4-Input AND/NAND Driver</p>
<p>74AS802 Triple 4-Input OR/NOR Line Driver</p>	<p>74AS804 Hex 2-Input NAND Driver</p>	<p>74AS808 Hex 2-Input AND Driver</p>

29. LOGIC/BLOCK DRAWINGS

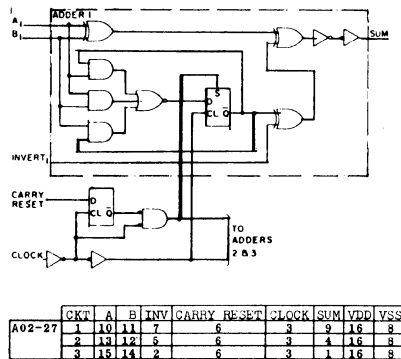
<p>74AS832 Hex 2-Input-OR-Driver</p>	<p>74AS882 32-Bit Look Ahead carry Generator</p>	<p>74AS882N 32-Bit Look-Ahead Carry Generator</p>
<p>74LS882N 32-Bit Look-Ahead Carry Generator</p>	<p>74C922 Binary Keyboard Encoder/Decoder</p>	<p>74C923 Binary Keyboard Encoder/Decoder</p>
<p>74ALS1000 Quadruple 2-Input Positive-Nand Buffer</p>	<p>74ALS1002 Quadruple 2-Input Positive-NOR Buffer</p>	<p>74ALS1003 Quadruple 2-Input Positive-Nand Buffer with Open-Collector Output</p>
<p>74ALS1020 Dual 4-Input Positive-Nand Bufff</p>	<p>75-11N Dual Gated D-type Flip-Flop</p>	<p>75-12 Dual Gated J-K/D type Flip-Flop</p>

29. LOGIC/BLOCK DRAWINGS

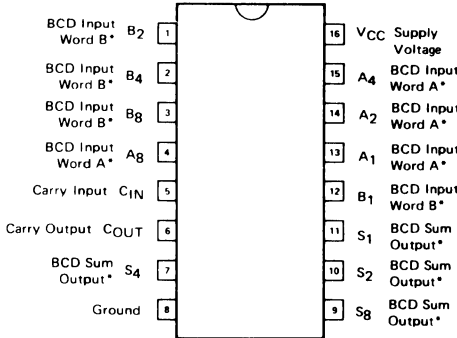


29. LOGIC/BLOCK DRAWINGS

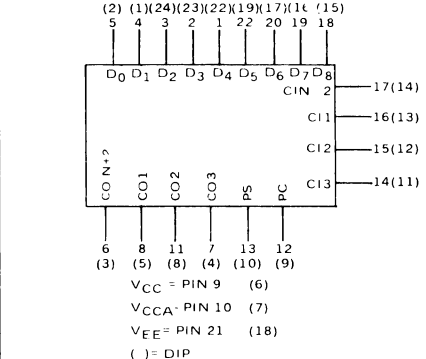
A02-27



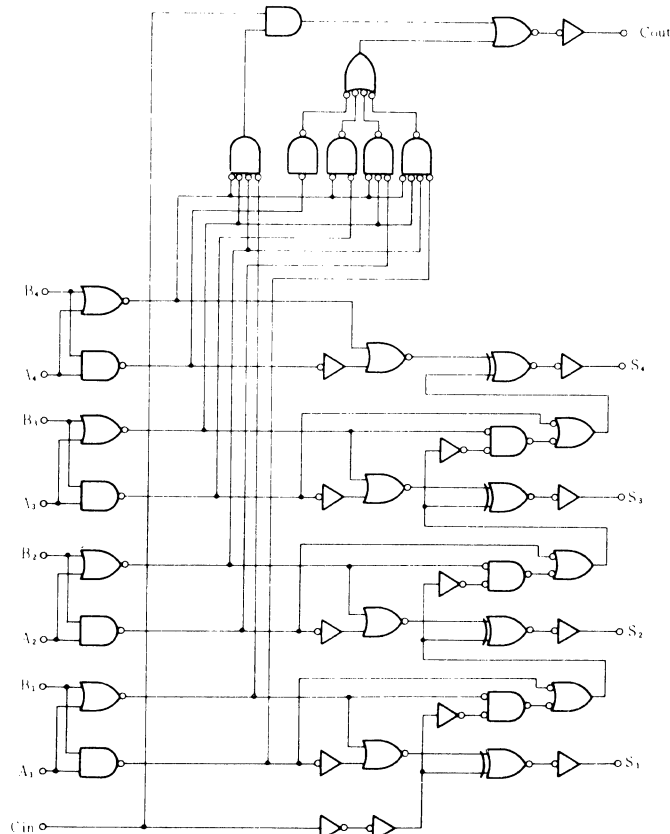
A02-35



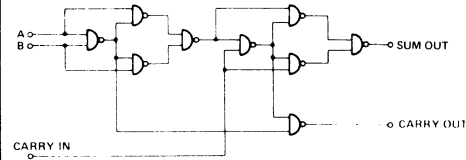
A02-42



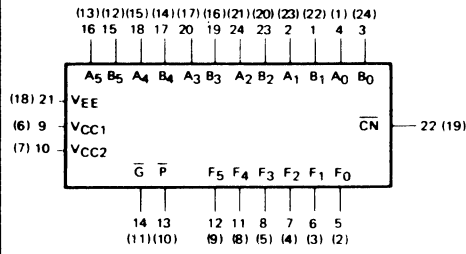
A02-47



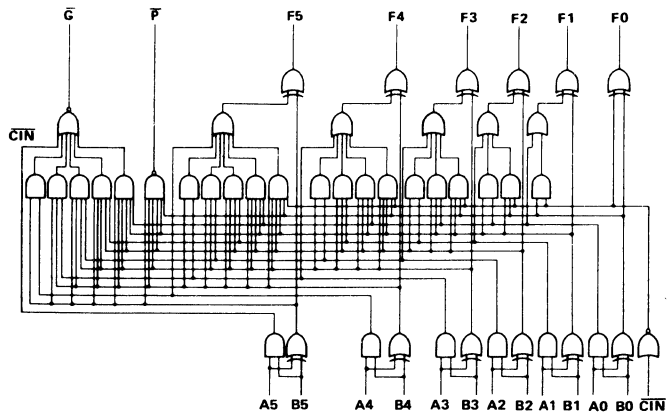
A02-48



A02-49



A02-50



29. LOGIC/BLOCK DRAWINGS

B02-91

PKT	CKT NO	K	T	J	Q	Q-bar	CLEAR	VCC	COM
B02-91	1	3	1	14	13	12	2	4	11
B02-91a	1	10	5	7	8	9	6	14	7
B02-91b	2	12	13	11	9	8	10		
B02-91c	1	11	12	13	2	3	1	14	7
B02-91d	2	12	9	8	5	4	6		

B02-92

PKT	CKT	K	J	T	PS	R	Q	VCC	COM
B02-92	1	16	4	1	2	3	14	13	5
B02-92a	2	12	9	6	7	8	10	11	
B02-92b	1	2	3	1	4	13	5	6	14
B02-92c	2	12	11	1	10	13	9	8	
B02-92d	1	3	1	2	13	12	14	4	11
B02-92e	2	5	7	6	1	13	12	14	4
B02-92f	1	3	2	6	1	13	12	14	4
B02-92g	2	5	7	6	8	13	10	9	
B02-92h	1	1	3	2	11	9	6	5	14
B02-92i	2	13	12	2	11	9	8	10	
B02-92j	1	1	3	2	4	6	7	5	16
B02-92k	2	15	13	14	12	10	9	11	
B02-92l	1	1	4	5	2	3	6	7	16
B02-92m	2	15	12	11	14	13	10	9	

B02-94

PKT	CKT	K	J	T	PS	R	Q	VCC	COM
B02-94	14	1	13	7	8	9	4	11	3
B02-94a	12	11	10	3	4	10	14	7	5
B02-94b	9	10	11	3	4	5	12	13	2
B02-94c	3	4	5	9	10	11	12	14	7
B02-94d	13	2	6	8	14	7	13	2	6

B02-101

PKT	CKT NO	S	R	BO	Q	Q-bar	COM	VCC
B02-101	1	3	1	2	4	13	6	5
B02-101a	2	11	1	12	10	13	8	9
B02-101b	1	3	1	2	4	6	5	7
B02-101c	2	11	13	12	10	8	5	7

B02-103

+V- 14
-V- 7

B02-106

B02-108

PKT	CKT NO	J	K	Q	Q-bar	R	S	T	COM	VCC
B02-108	1	1	3	14	12	13	2	11	4	
B02-108a	2	7	5	8	10	9	6	7	14	
B02-108b	1	3	1	5	6	4	2	7	14	
B02-108c	2	12	11	10	8	9	13			
B02-108d	1	3	2	12	14	13	1	6	11	4
B02-108e	2	5	7	10	8	13	9	6		
B02-108f	1	1	3	6	5	9	4	2	7	14
B02-108g	2	13	12	8	10	9	11	2		

B02-134

PKT	CKT	S	J ₁	J ₂	J ₃	T	K ₁	K ₂	K ₃	R	Q	Q-bar
B02-134	1	FP	3	7	8	9	2	1	14	13	5	12
B02-134	1	MP	13	3	4	5	12	11	10	9	2	8

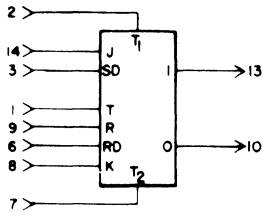
B02-139

PKT	CKT NO	J	J ₂	T	K	S	Q	Q-bar	VCC	COM
B02-139	1	10	8	9	13	12	14	7	14	
B02-139	2	3	4	6	5	13	1	2		

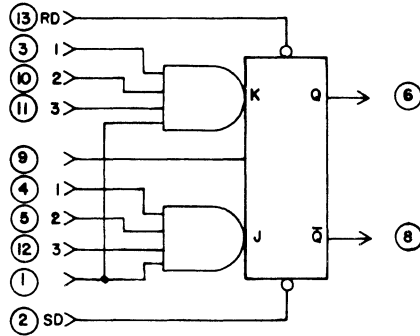
B02-148

29. LOGIC/BLOCK DRAWINGS

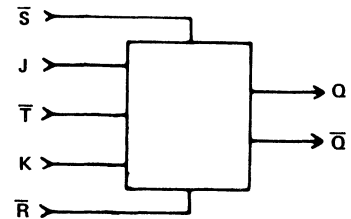
B02-149



B02-154

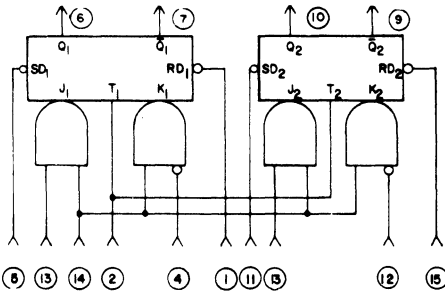


B02-173

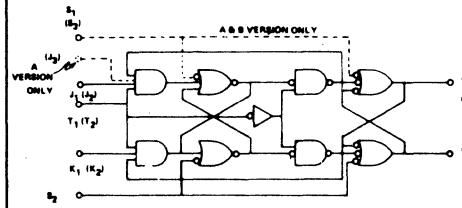


	CKT	S	J	T	K	R	Q	Q-bar
B02-173	1	4	3	13	2	1	5	6
B02-173a	2	10	11	13	12	1	9	8
	1	4	3	1	2	5	6	
	2	10	11	13	12	9	8	

B02-187

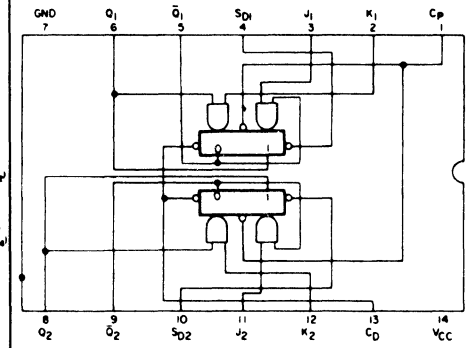


B02-188

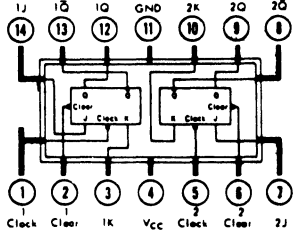


B02-200

NOTES:
OUTPUT PULL UP RESISTORS
6kΩ for B02-200
2kΩ for B02-200a

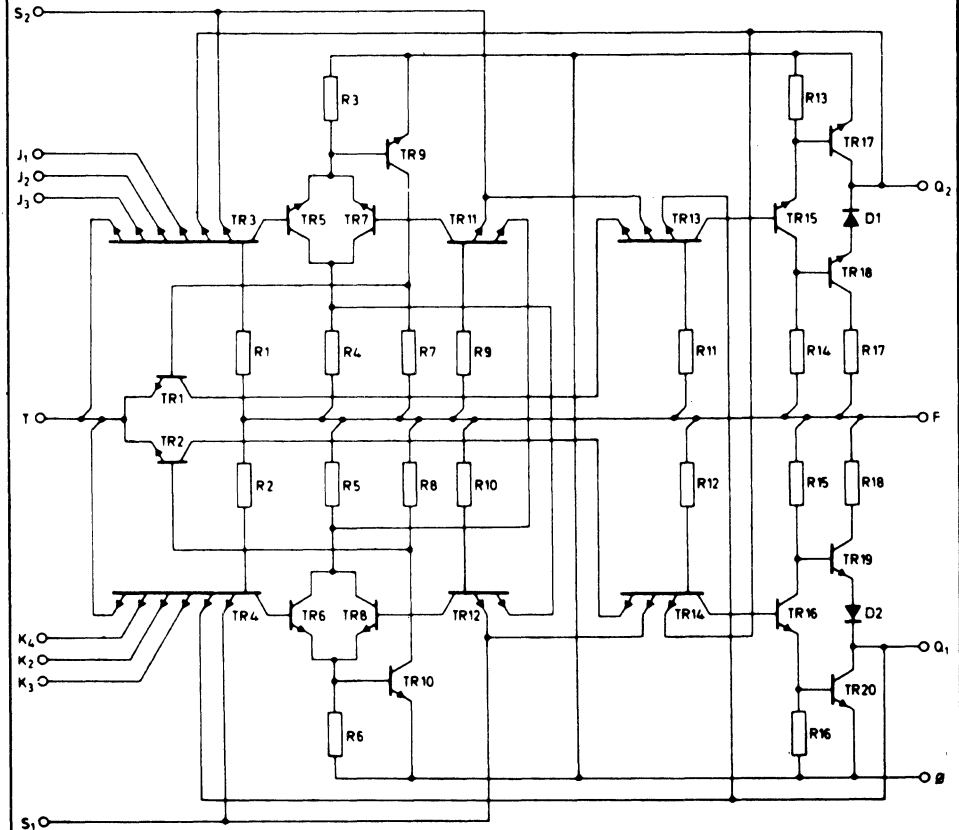


B02-203



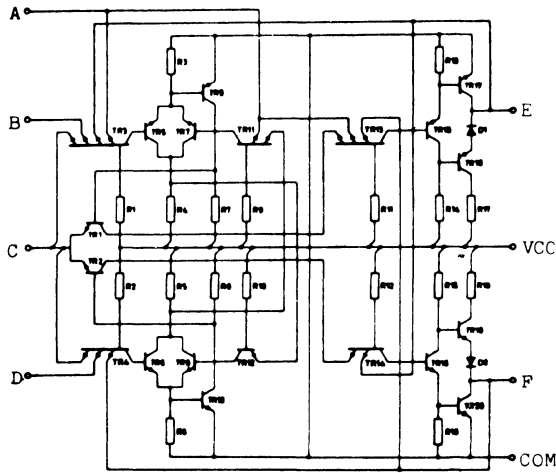
	CKT	J	K	Q	Q-bar	GND	CLOCK	CLEAR	VCC
B02-203	1	14	13	12	11	3	1	2	4
B02-203a	2	7	8	9	11	10	5	6	4
	1	1	2	3	7	4	12	13	14
	2	8	6	5	7	11	9	10	14

B02-237



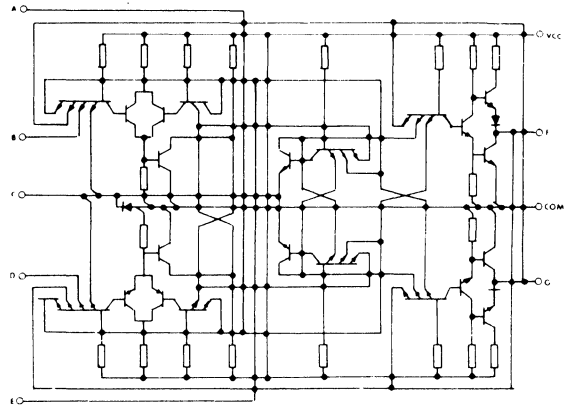
29. LOGIC/BLOCK DRAWINGS

B02-238



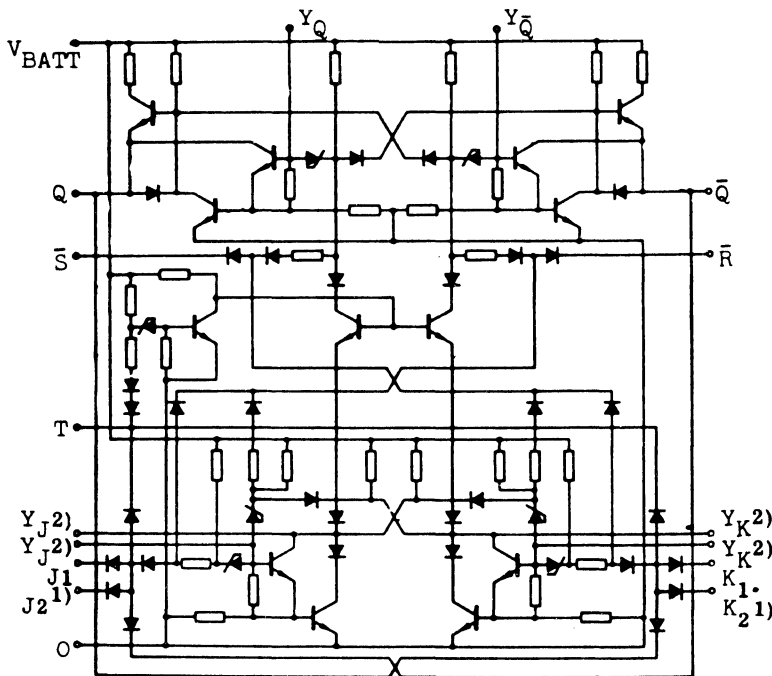
	CKT	A	B	C	D	E	F	VCC	COM
B02-238	1	2	14	1	3	13	12	4	11
	2	6	7	5	10	8	9		
B02-238a	1	13	1	12	4	2	3	14	7
	2	10	8	9	11	6	5		

B02-239



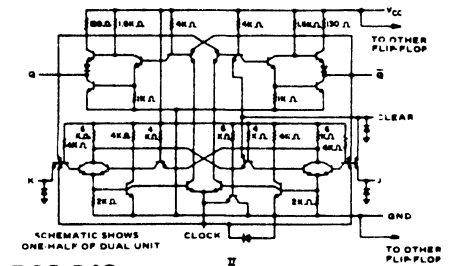
	CKT	A	B	C	D	E	F	G	VCC	COM
B02-239	1	3	4	1	14	3	15	14	5	13
	2	7	8	12	8	11	10			

B02-242

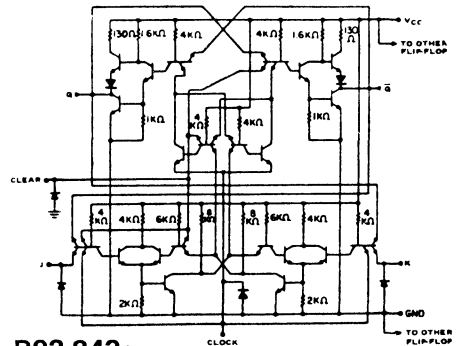


- 1) FOR B02-242 ONLY.
- 2) FOR B02-242a ONLY.

B02-243



B02-243 CIRCUIT VARIATION I OR II



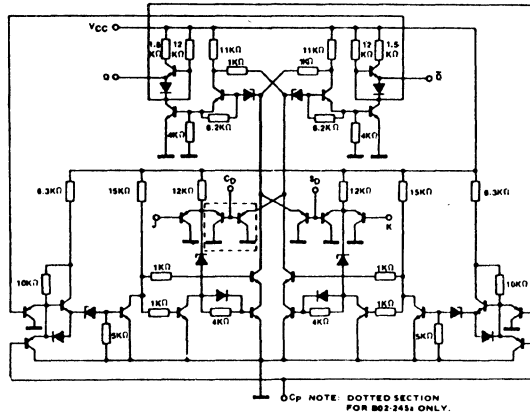
B02-243a

	PKG	CKT	J	K	Q	CLEAR	CLOCK	VCC	GND		
B02-243	FP	M	1	14	3	12	13	2	1	4	11
			2	7	10	9	8	6	5		
B02-243a	M		1	1	4	3	2	13	12	14	7
			2	8	11	5	6	10	9		

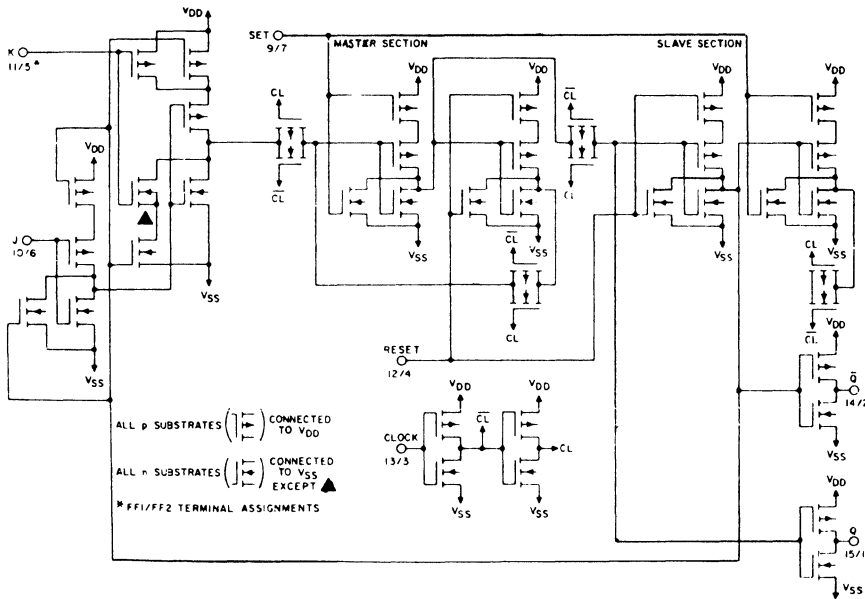
29. LOGIC/BLOCK DRAWINGS

B02-245

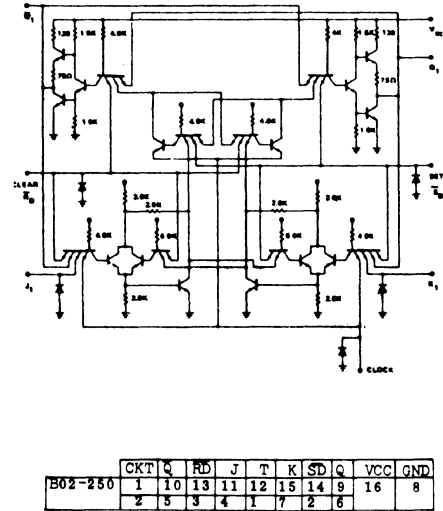
	CKT	J	K	CD	SD	CD	Q	\bar{Q}	VCC	GND
B02-245	1	3	2		4	1	6	5	14	7
B02-245a	1	3	2	5	4	1	7	6	16	8
	2	13	14	11	12	15	9	10		



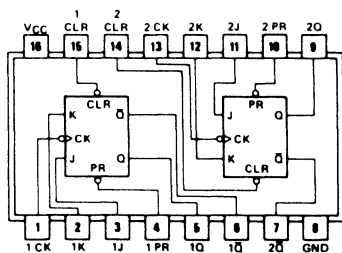
B02-247



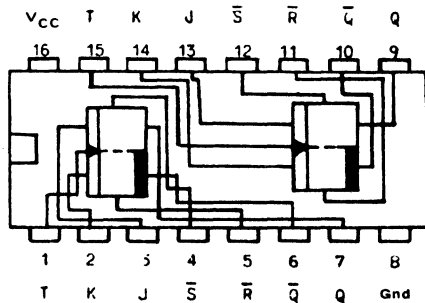
B02-250



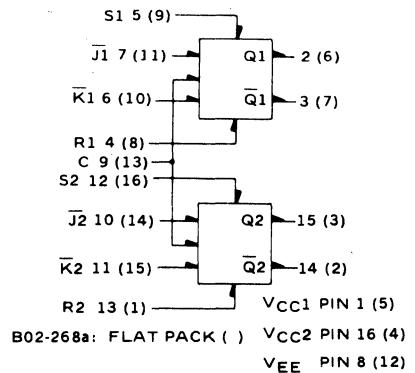
B02-257



B02-266

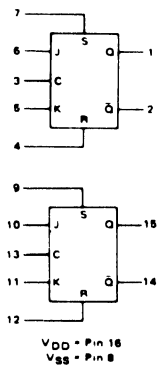


B02-268

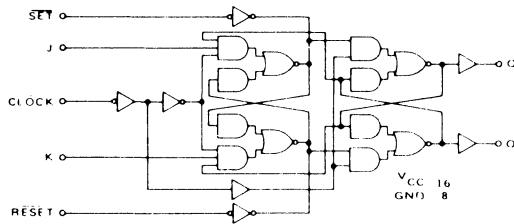


29. LOGIC/BLOCK DRAWINGS

B02-269



B02-271

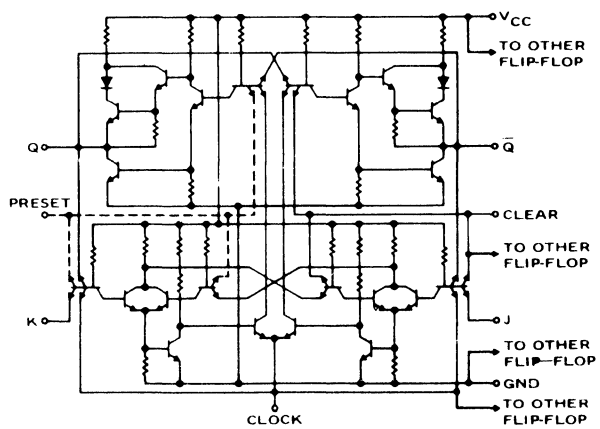


	CKT	\bar{S}	J	\bar{C}	K	\bar{R}	Q	\bar{Q}
B02-271	1	4	3	1	2	5	6	7
	2	12	13	15	14	11	10	9

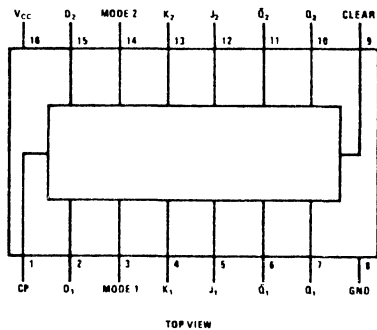
B02-286

	PKG	CKT NO.	J	CLOCK	PS	K	CLEAR	Q	\bar{Q}	VCC	GND
B02-286	M	1	14	1	3	2	12	13	4	11	
	FP	2	7	5	10	6	9	8	4	11	
B02-286a	M	1	3	1	2	14	5	13	12	4	11
	FP	2	10		6	7	8	9			

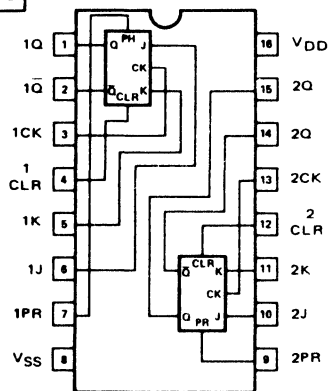
NOTE: DOTTED CONNECTIONS REFER TO B02-286a ONLY



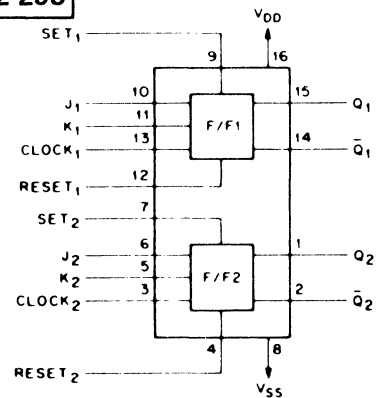
B02-287



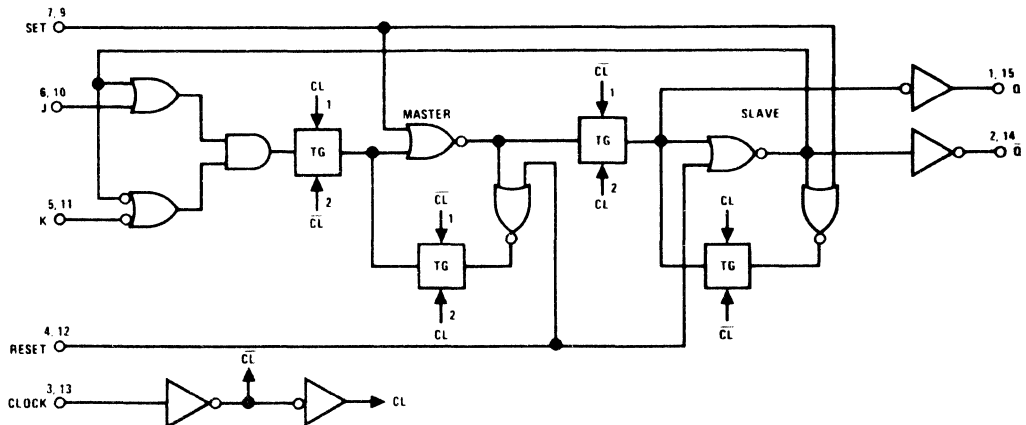
B02-290



B02-295

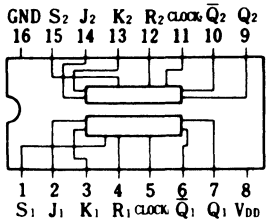


B02-297

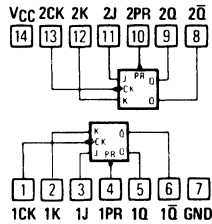


29. LOGIC/BLOCK DRAWINGS

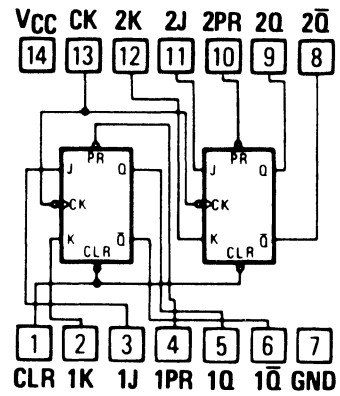
B02-301



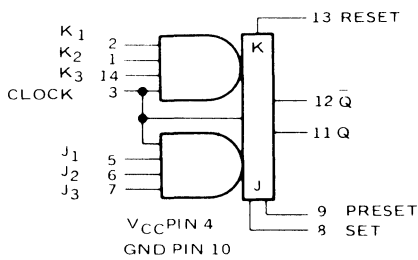
B02-303



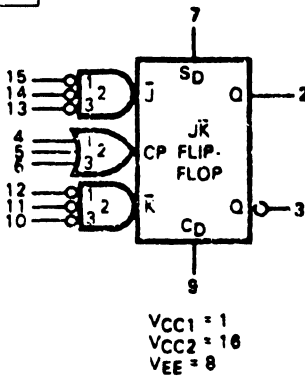
B02-304



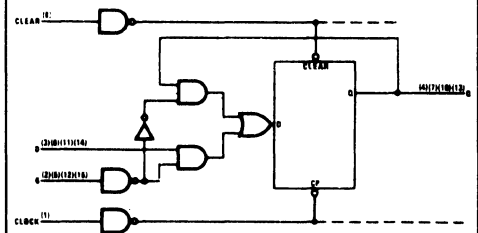
B02-312



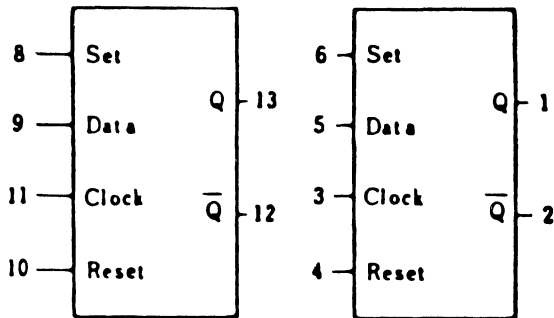
B02-314



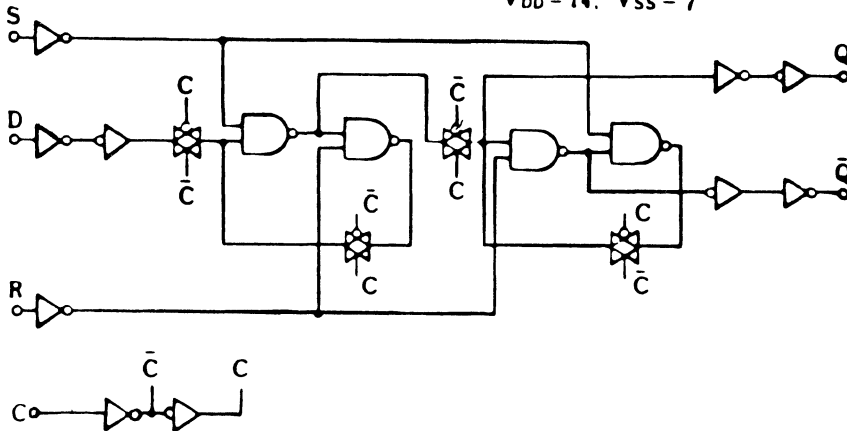
B02-324



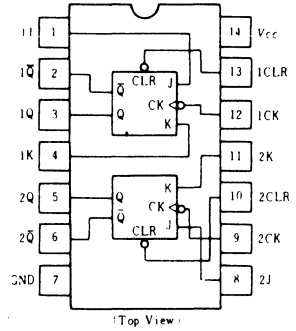
B02-325



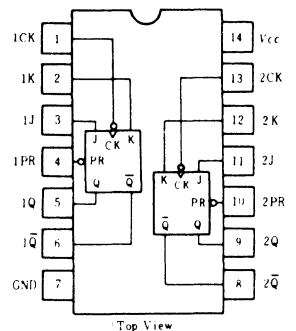
V_{DD} = 14, V_{SS} = 7



B02-326

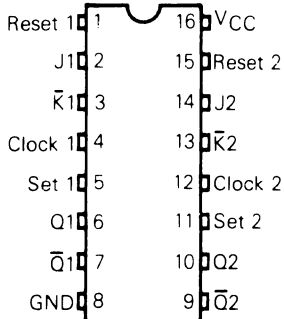


B02-327

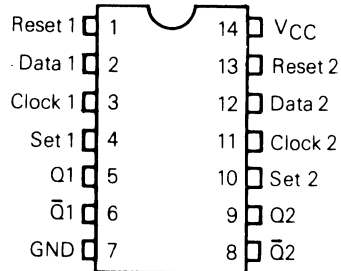


29. LOGIC/BLOCK DRAWINGS

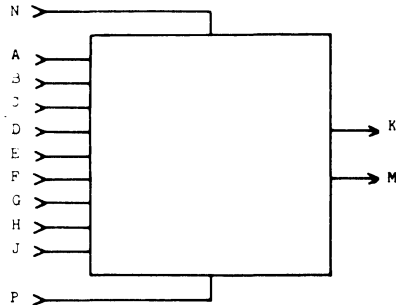
B02-328



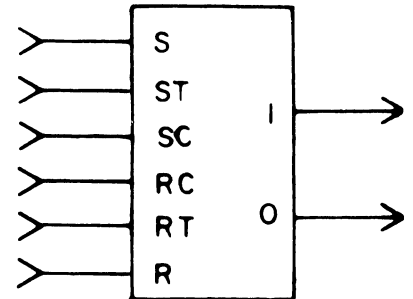
B02-329



B03-8



B03-56



NOTE: PIN DESIGNATORS ARE IN PARENTHESIS WHEN GIVEN.

CKT NO.	A	B	C	D	E	F	G	H	J	K	M	N	P	VCC	COM
B03-8m	1	R(D)	S(B)							O(E)	I(F)				
	2	R(J)	S(M)							O(K)	I(L)				
	3	R(N)	S(S)							O(P)	I(R)				
	4	R(V)	S(V)							O(T)	I(U)				
B03-8n	1	R(D)	S(B)							O(E)	I(F)				
B03-8p	1	S(8)	J(4)	P(3)	K(8)	R(7)				Q(9)	Q(8)				
	2	S(15)	J(17)	P(18)	K(18)	R(14)				Q(12)	Q(13)				
	3	S(22)	J(20)	P(19)	K(21)	R(23)				Q(25)	Q(24)				
	4	S(31)	J(33)	P(34)	K(32)	R(30)				Q(28)	Q(29)				
	5	S(38)	J(36)	P(35)	K(37)	R(39)				Q(41)	Q(40)				
	6	S(47)	J(49)	P(50)	K(48)	R(46)				Q(44)	Q(45)				
B03-8q	1	J(8)	S(7)	T(4)	R(1)	K(3)				Q(6)	Q(2)				
	2	J(11)	S(9)	T(12)	R(15)	K(13)				Q(10)	Q(14)				
B03-8r	1	J(3)	S(14)	T(3)	R(1)	K(1)				Q(13)	Q(12)				
	2	J(6)	S(8)	T(5)	R(1)	K(7)				Q(9)	Q(11)				
B03-8s	1	J(2)	S(14)	T(3)	R(5)	K(1)				Q(13)	Q(12)				
	2	J(6)	S(8)	T(3)	R(5)	K(7)				Q(9)	Q(11)				
B03-8t	1	J(8)	T(6)	K(2)						Q(6)	Q(1)	RD(3)			
	2	J(9)	T(10)	K(12)						Q(8)	Q(13)	RD(11)			
B03-8u	1	J(8)	T(4)	K(2)						Q(6)	Q(1)	RD(3)		14	4
	2	J(9)	T(10)	K(12)						Q(8)	Q(13)	RD(11)		14	4
B03-8v	1	J(3)	T(4)	K(1)						Q(12)	Q(10)	SI(8)	S2(8)		
B03-8w	1	J(7)	T(1)	K(8)						Q(3)	Q(2)	R(9)	FS(8)		
B03-8x	1	D(10)	CI(8)	C2(7)						Q(2)	Q(3)	S(5)	R(4)		
B03-8y	1	D(10)	CI(8)	C2(8)						Q(2)	Q(3)	S(5)	R(4)		
B03-8z	1	D(9)	CI(8)							Q(13)	Q(12)	S(10)	R(11)		
	2	D(8)	CI(7)							Q(2)	Q(3)	S(5)	R(4)		
B03-8aa	1	DS(V)								Q(D)	Q(E)				

	B0356	B0356A		B0356	B0356 A
1	V _{EE}	RC	11	V _{CL}	V _{EE}
2	V _{BB}	SC	12	-	V _{CL}
3	RC	'1'	13	V _{CC}	V _{CC}
4	RT	'0'	14	'0'	V _{CC}
5	-	RT	15	-	-
6	R	ST	16	-	-
7	-	-	17	S	-
8	-	S	18	-	-
9	'I'	R	19	ST	
10	V _{CC}	V _{BB}	20	SC	

29. LOGIC/BLOCK DRAWINGS

B03-95

PKG	PKT NO.	DR	R1	R2	T	S1	S2	DS	1	0	COM	VCC	
B03-95a	FP, MP	1	5	12	11	2	3	4	10	6	9	7	14
B03-95b	CH	1	NC	9	8	1	2	3	7	4	5	2	10
B03-95c	FP, MP	1	NC	2	NC	1	3	NC	4	6	5	7	14
B03-95d	FP, MP	2	12	13	11	10	8	9					
B03-95f	g	CN	1	4	10	11	1	2	3	8	5	7	6
B03-95h	M	1	5	12	11	2	3	4	10	6	9	7	14

B03-97

CASE	STYLE	S1	S2	SD	R1	R2	RD	Q	Q-bar	A	B	VCC	COM
B0397	FP	6	10	1	4	5	13	3	11				14
	CN	5	7	1	3	4	9	2	8				10
B0397A	FP/MP	10	6	1	4	5	13	3	11	2	12	14	7
B0397B	CN	9	5	11	3	4	1	2	10	NC	NC	12	6
B0397C	FP	10	6	1	4	5	13	3	11	2	12	14	7
	CN	7	5	1	3	4	9	2	8				10
B0397D	FP	4	5	13	6	10	1	3	11	2	12	14	7
	CN	3	4	9	5	7	1	2	8	NC	NC	10	6

B03-117

B03-127

B03-131

B03-150

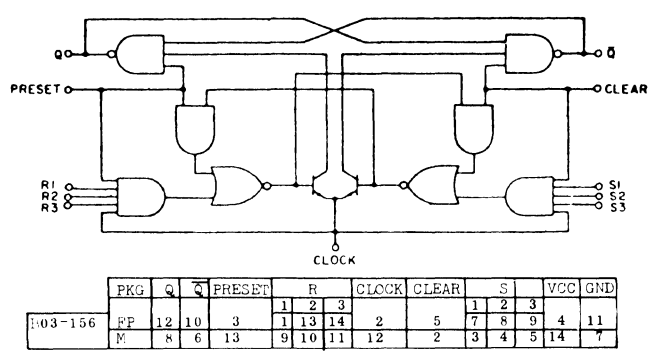
NUMBERS AT ENDS OF TERMINALS DENOTE PIN NUMBERS FOR L SUFFIX.
 NUMBERS IN PARENTHESIS DENOTE PIN NUMBERS FOR F SUFFIX.

B03-153

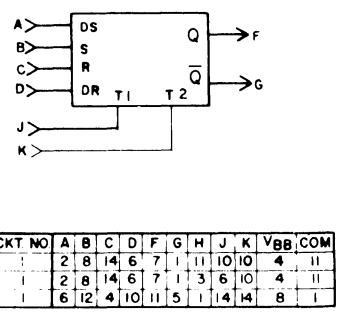
*OPTION Rp= 50K OHMS OR Rp= 2K OHMS.

29. LOGIC/BLOCK DRAWINGS

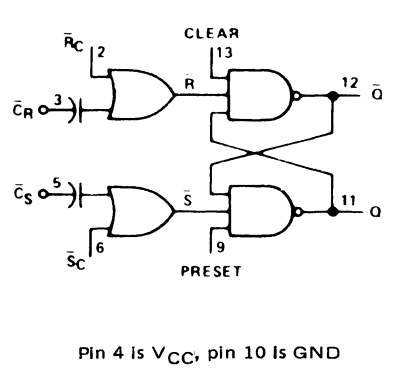
B03-156



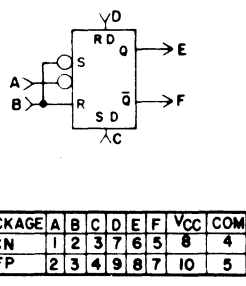
B04-19



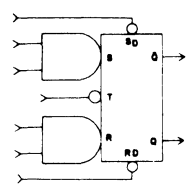
B04-42



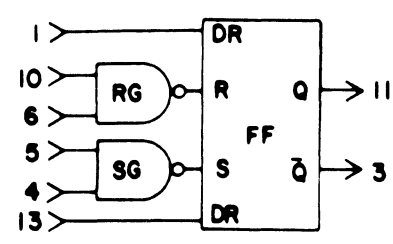
B04-52



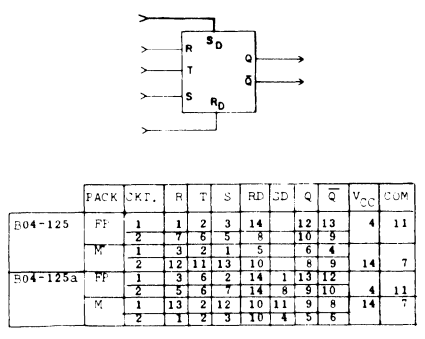
B04-87



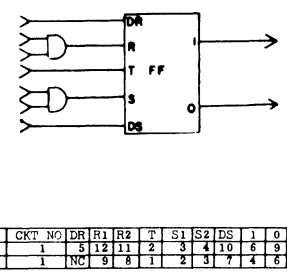
B04-92



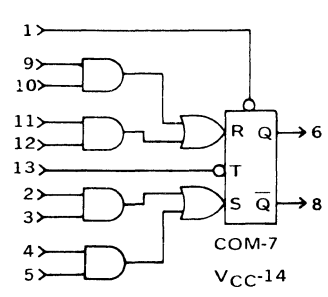
B04-125



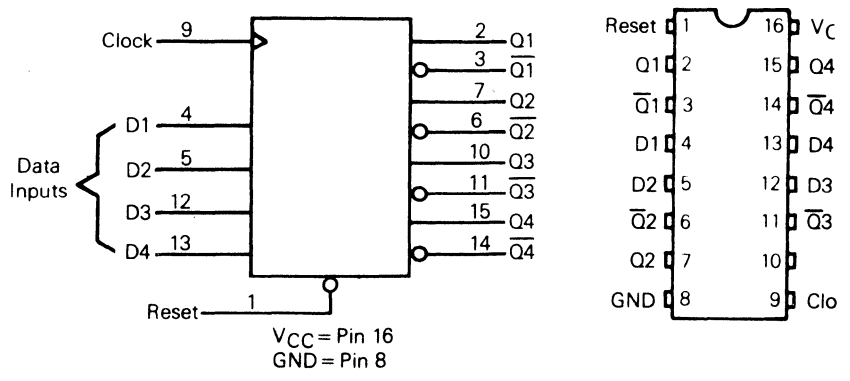
B04-129



B04-136



B04-137



29. LOGIC/BLOCK DRAWINGS

B05-31

PKG.	CKT. NO.	A	B	C	D	E	F	COM	V _{CC}
B05-31	FP	1	2, 3	4, 9	7	8	5	10	
	CN	1	1	2, 3	7	5	6	4	8
B05-31A	MP	1	1	2, 3	12, 14	13	4	11	
		2	5	6, 7	8	10	9		
	FP	1	6	5, 4	3	1	2	7	14
		2	8	9	10	11	13	12	

B05-36

FP 215(1)

(19)16 S₀

(15)12 D₀

(16)13 D₁

(17)14 D₂

(18)15 D₃

(24)21 D₄

(1)22 D₅

(2)23 D₆

(3)24 D₇

(22)19 M

(20)17 S₁

(23)20 S₂

V_{CCA} 5, 7(8, 10)

V_{CC} 6 (9)

V_{EE} 18 (21)

Z₀ 11(14)

Z₂ 9(12)

Z₄ 4(7)

Z₆ 2(5)

Z₁ 10(13)

Z₈ 8(11)

Z₅ 3(6)

Z₇ 1(4)

B05-35

DATA INPUT DISABLE G1 G2

CLOCK

OUTPUT DISABLE M N

D1 14

D2 13

D3 12

D4 11

7

1 2

3 4

5 6

Q1

Q2

Q3

Q4

15

RESET

V_{DD} = 16

V_{SS} = 8

B06-19

CP 1

C₁ 2

C₂ 3

C₃ 4

RESISTOR PULL UP 5

Q 6

GROUND 7

14 V_{CC}

13 S₁

12 S₂

11 S₃

10 RESISTOR PULL UP

9 Q

B06-28

Input 1

3 V_{CC}

2 Output

4 GND

To IIL Transistor Base

IIL Circuit

B06-29

Reset 1

Q0 2

D0 3

D1 4

O1 5

D2 6

Q2 7

GND 8

16 V_{CC}

15 O5

14 D5

13 D4

12 Q4

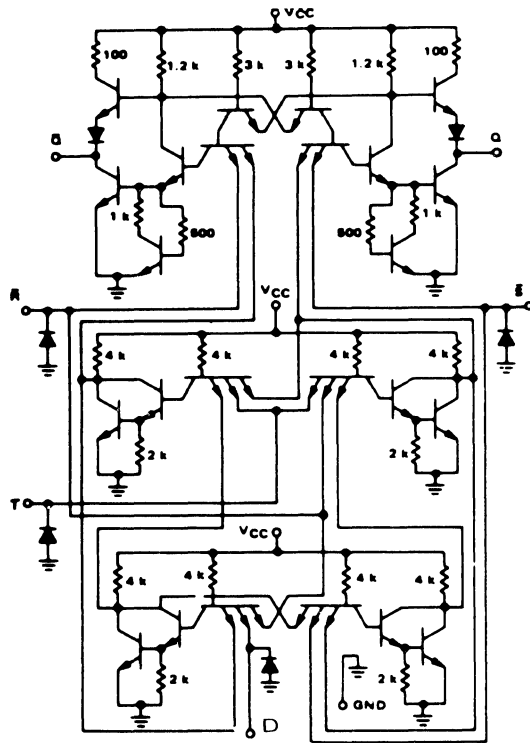
11 D3

10 Q3

9 Clock

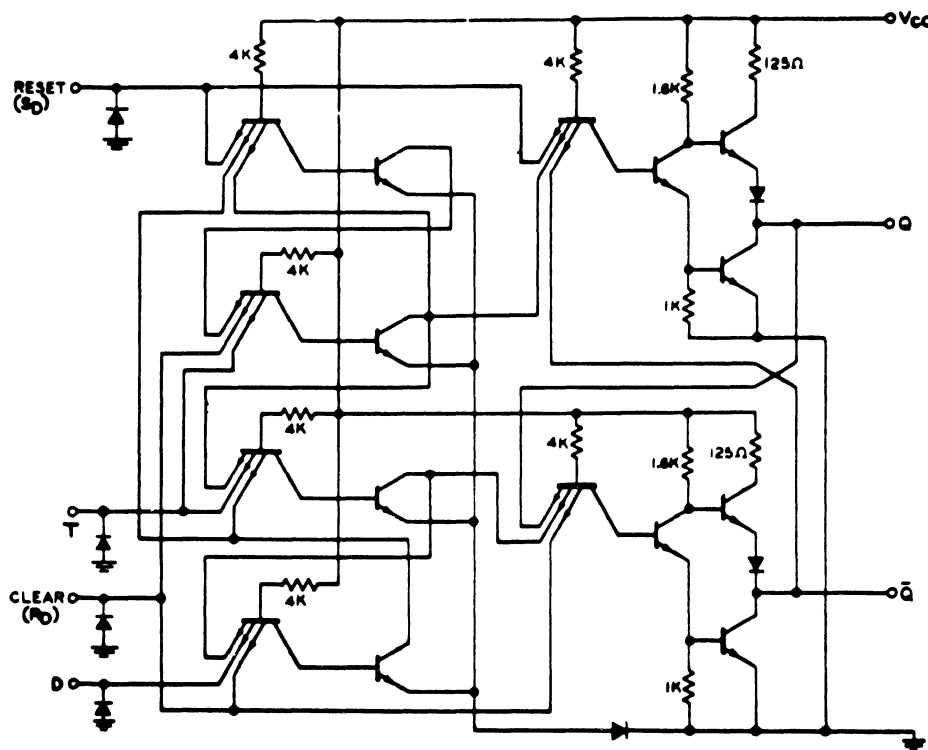
29. LOGIC/BLOCK DRAWINGS

B08-10



	PKG	CKT	S	D	T	R	Q	Q	VCC	GND
B08-10	1	4	2	3	1	5	8	14	7	
	2	10	12	11	13	9	8			
B08-10a	1	14	2	1	3	13	12	4	10	
	2	8	6	7	5	9	11			
B08-10b	1	8	6	7	5	9	10	4	11	
	2	14	2	1	3	13	12			
B08-10c	FC	1	13	6	7	5	14	15	4	16
	FP	1	8	6	7	5	9	10	4	11
		2	14	1	2	3	13	12		

B08-16

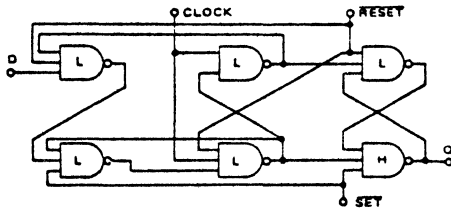


	PKG	CKT	D	T	R _D	S _D	Q	Q	VCC	DCV
B08-16	FP	1	2	1	3	14	13	12	4	11
		2	6	7	5	8	9	10		
	MP	1	2	3	1	4	5	6	14	7
		2	12	11	13	10	9	8		

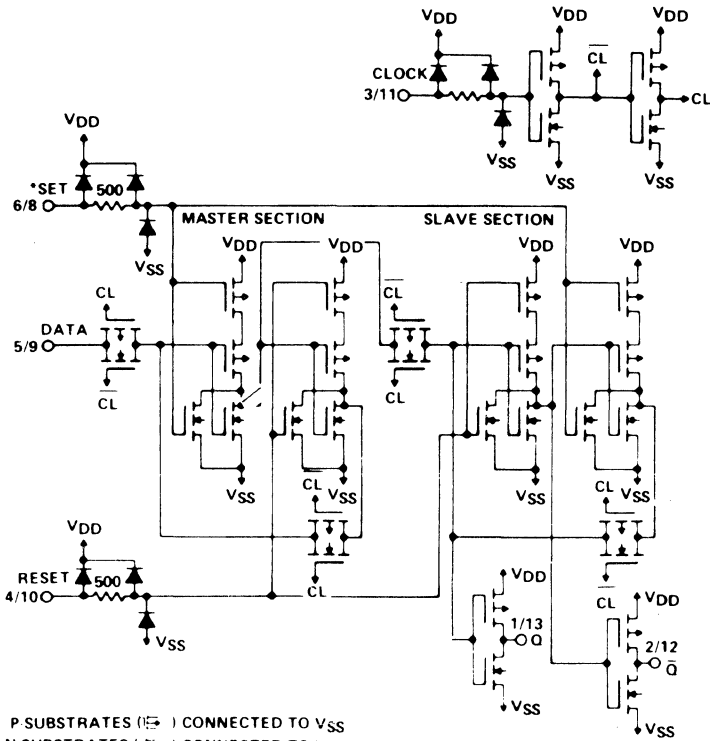
29. LOGIC/BLOCK DRAWINGS

B08-22

B08-23

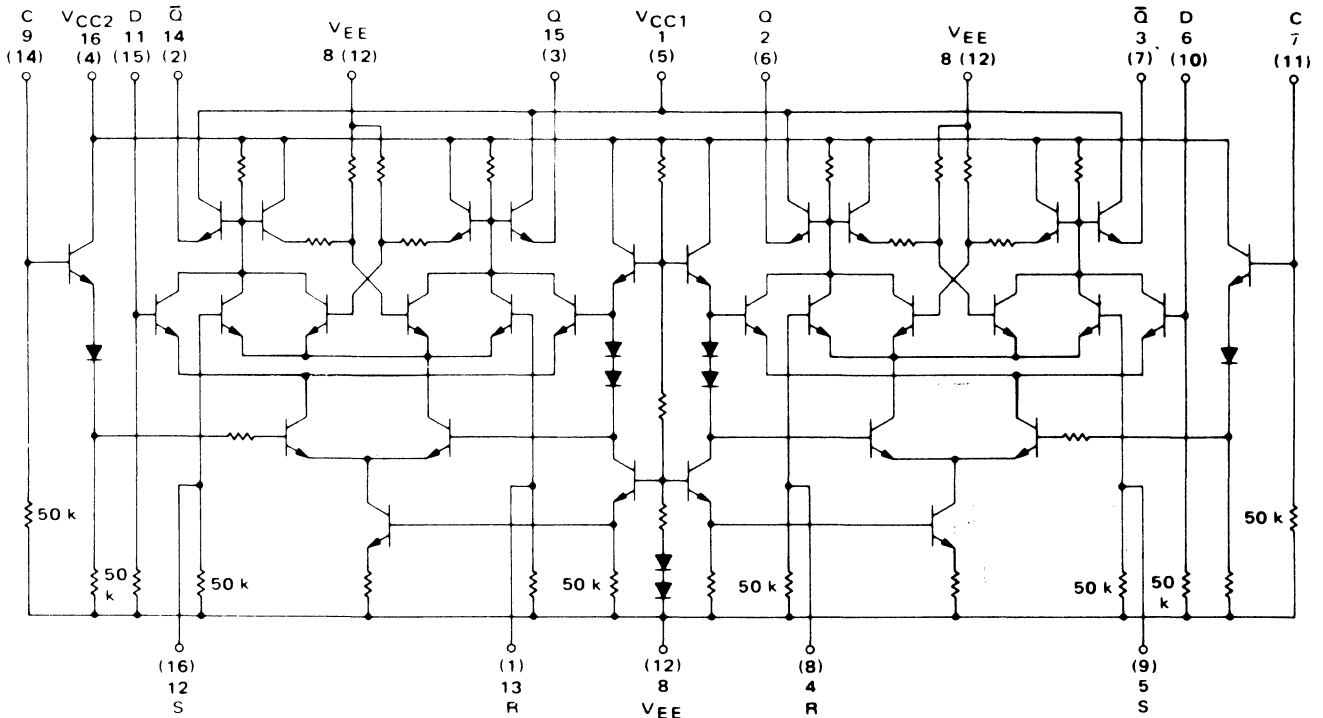


CKT NO.	D	C	RS	Q
1	2	13	3	4 6
2	1	13	3	5 7
3	15	13	3	11 9
4	4	13	3	12 10



ALL P-SUBSTRATES (P) CONNECTED TO VSS
 ALL N-SUBSTRATES (N) CONNECTED TO VDD
 • FF1/FF2 TERMINAL ASSIGNMENTS

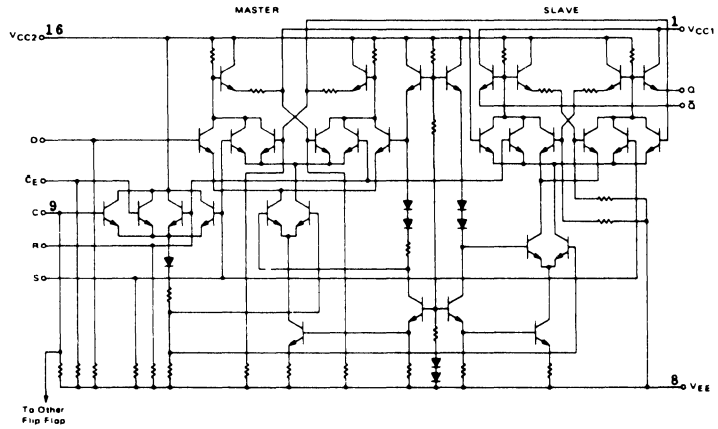
B08-32



Numbers at ends of terminals denote pin numbers for L package
 Numbers in parenthesis denote pin numbers for F package

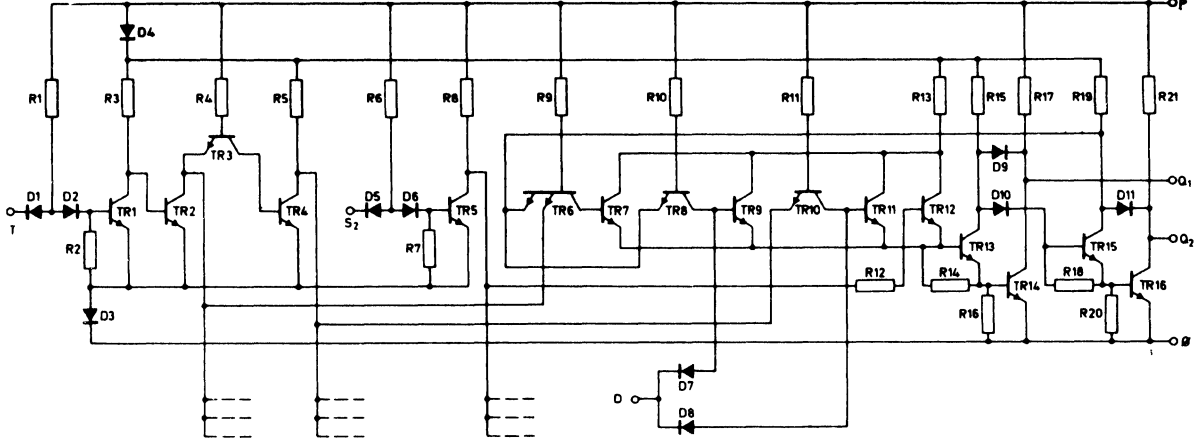
29. LOGIC/BLOCK DRAWINGS

B08-33

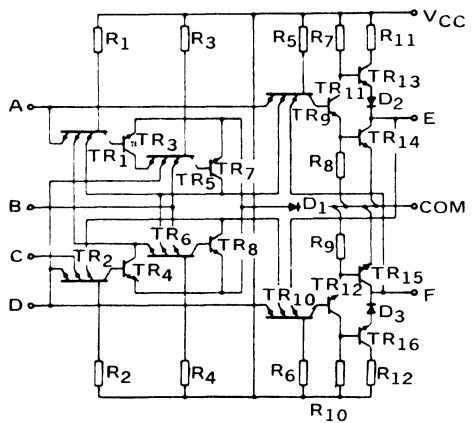


B08-33	CKT	S1	R	CE	D	Q	Q̄
	1	6	4	8	7	2	3
	2	12	13	11	10	15	14

B08-37

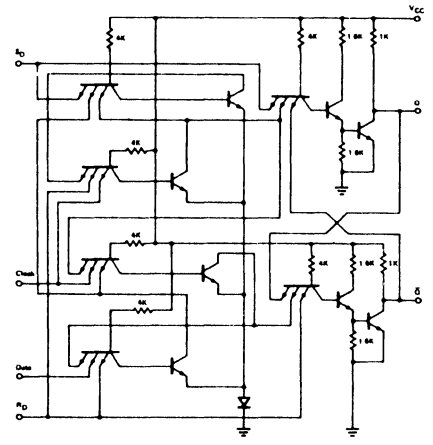


B08-38



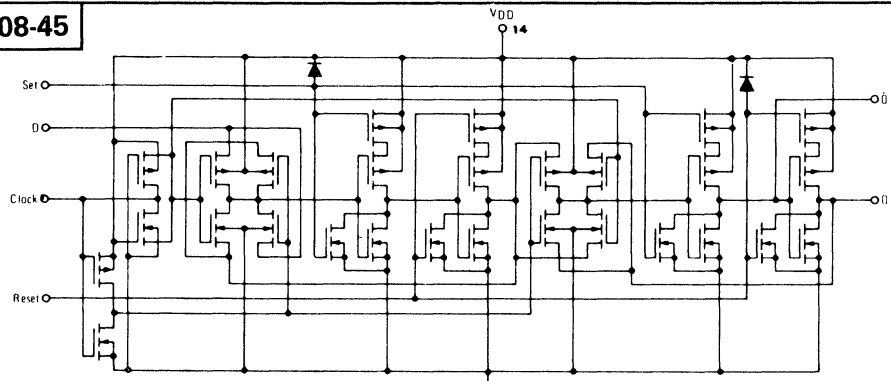
B08-38	CKT	A	B	C	D	E	F	COM	VCC
	1	4	3	2	1	5	6	7	14
	2	10	11	12	13	9	8		

B08-44



B08-44	CKT	SD	T	DATA	RD	Q	Q̄	VCC	GND
	1	4	5	6	7	3	2	8	1
	2	12	11	10	9	13	14		

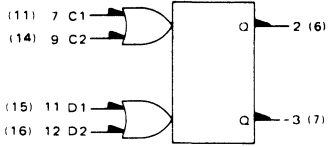
B08-45



B08-45	CKT	S	D	T	R	Q̄	Q
	1	6	5	3	4	2	1
	2	8	9	11	10	12	13

29. LOGIC/BLOCK DRAWINGS

B08-54

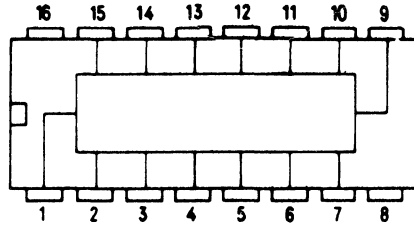


VCC1 Pin 1 (5)
VCC2 Pin 16 (4)
VEE Pin 8 (12)

Numbers at ends of terminals denote pin numbers for Lpackage

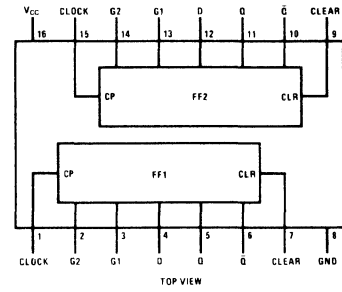
Numbers in parenthesis denote pin numbers for F package

B08-63



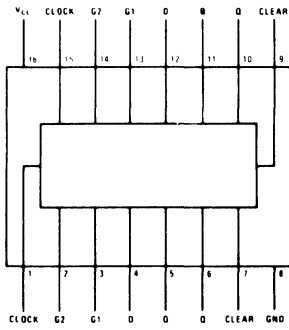
PIN NUMBERS																
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
B08-63	Q1	Q2	D1	D2	D3	D3	Q3	Q3	GND	M	Q4	C	R	D1	Q1	VCC
B08-63A	CLOCK	D1	M1	K1	D1	Q1	Q1	GND	CLEAR	Q2	Q2	J2	K2	D2	D2	VCC

B08-72



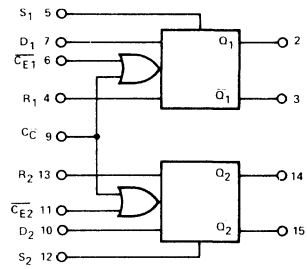
TOP VIEW

B08-75

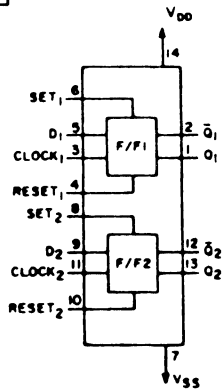


TOP VIEW

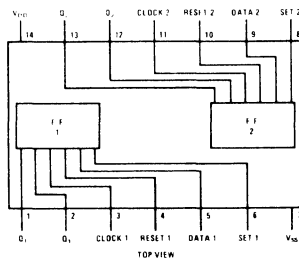
B08-82



B08-83

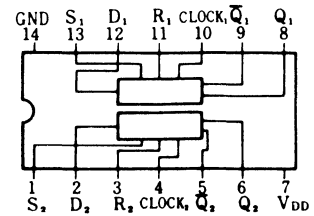


B08-87

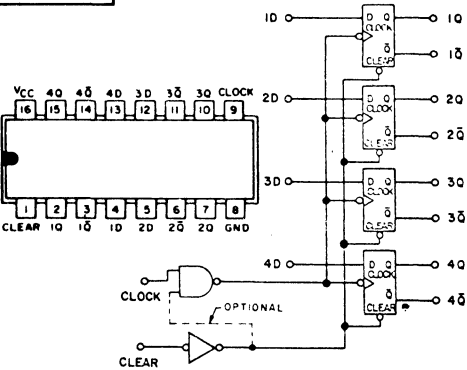


TOP VIEW

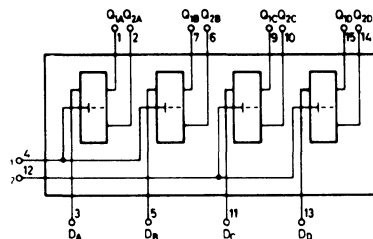
B08-92



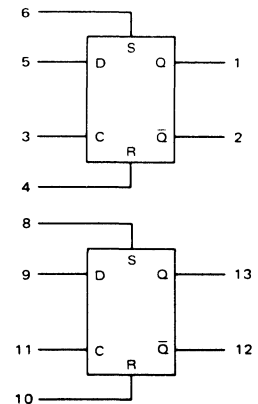
B08-93



B08-94

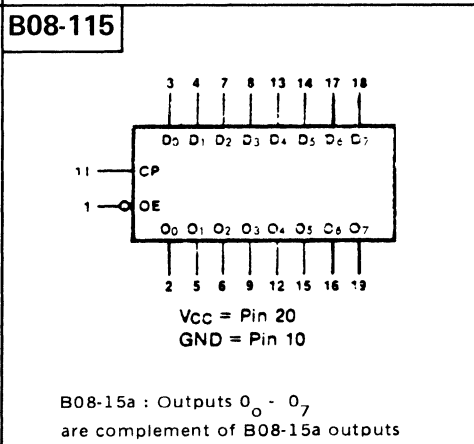
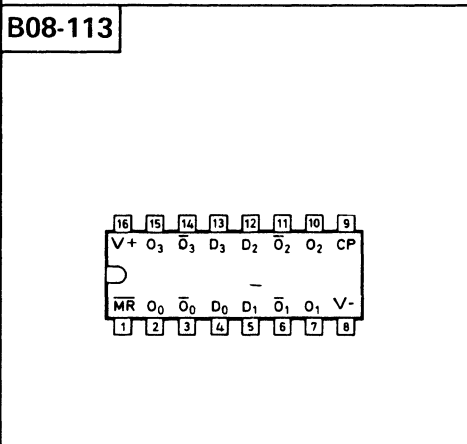
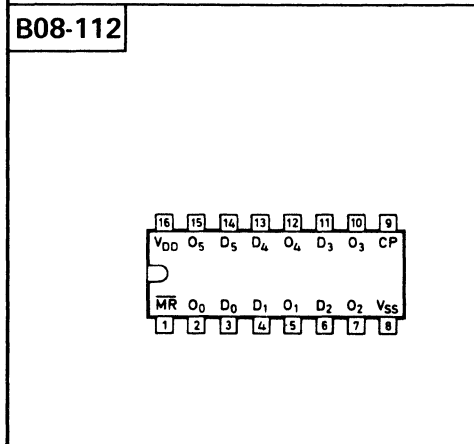
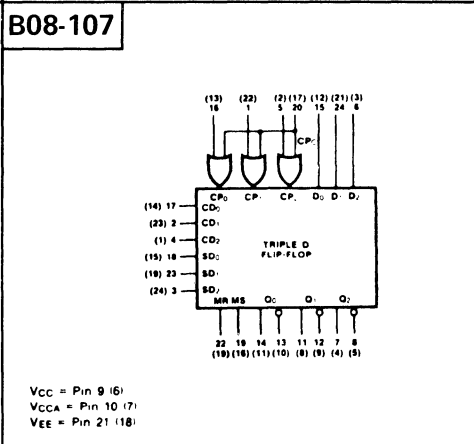
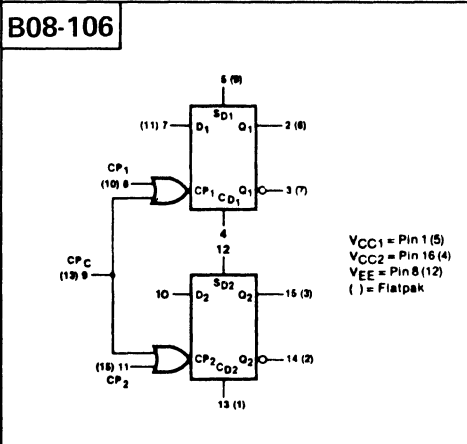
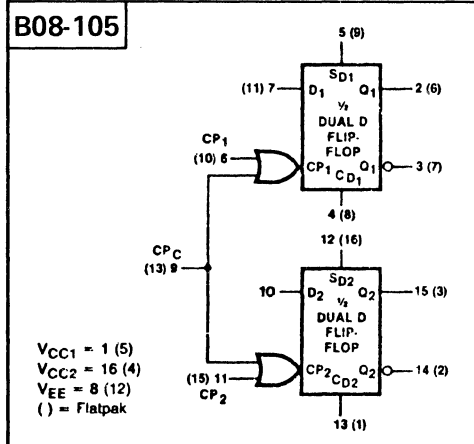
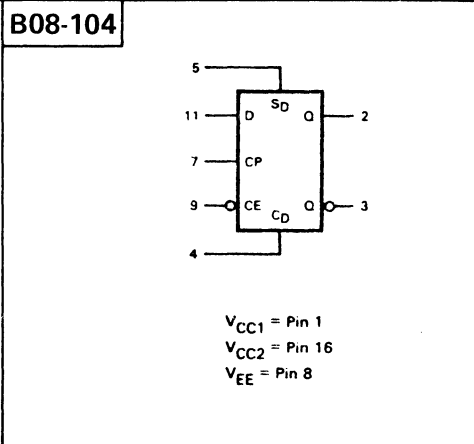
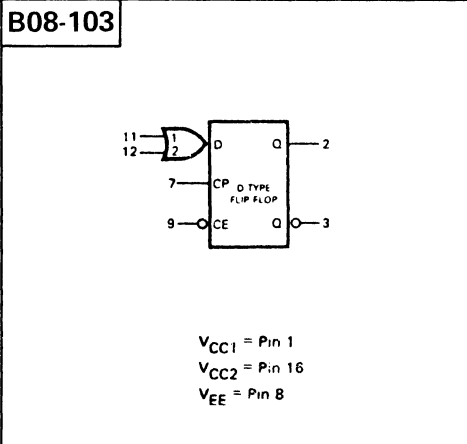
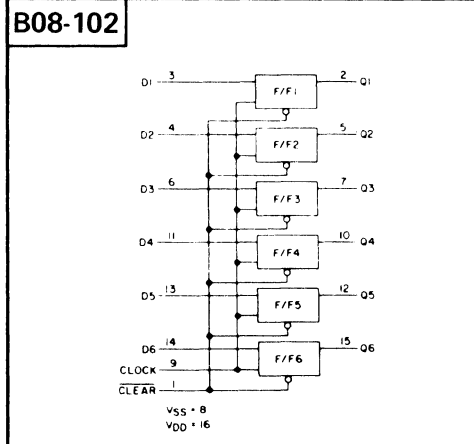
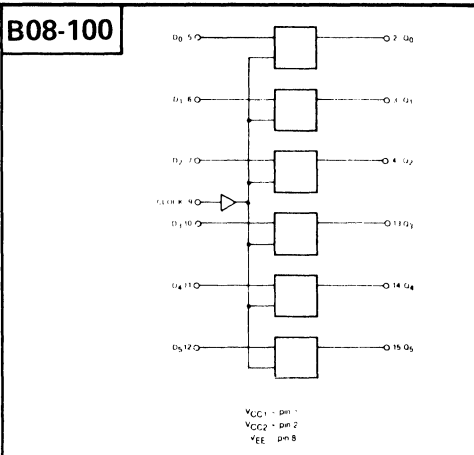
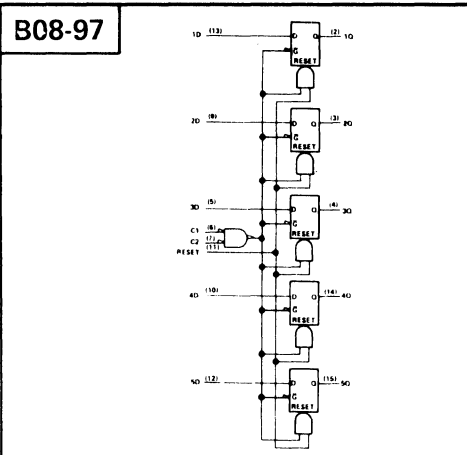
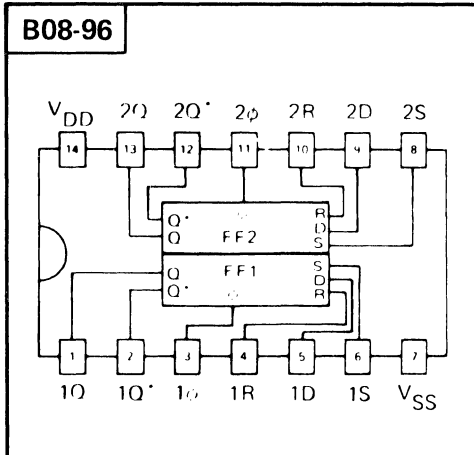


B08-95



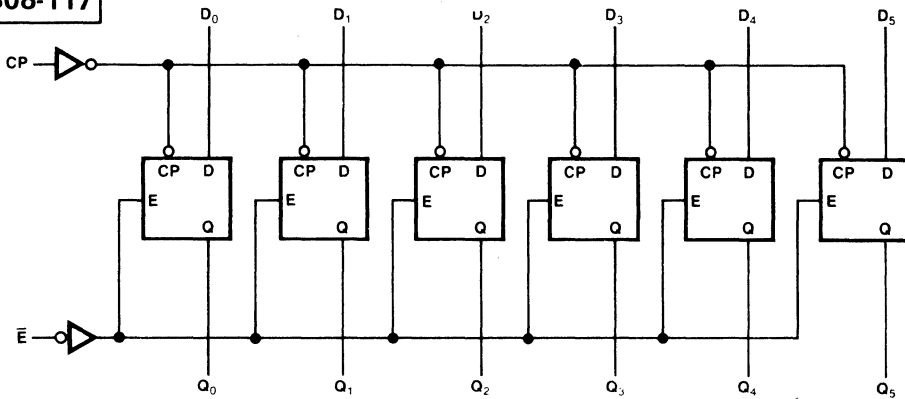
V_{DD} = Pin 14
V_{SS} = Pin 7

29. LOGIC/BLOCK DRAWINGS

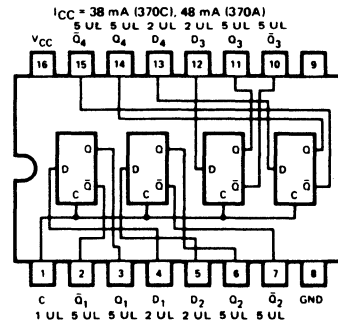


29. LOGIC/BLOCK DRAWINGS

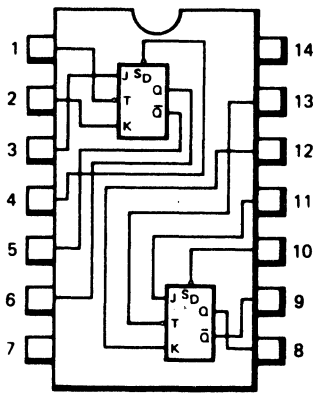
B08-117



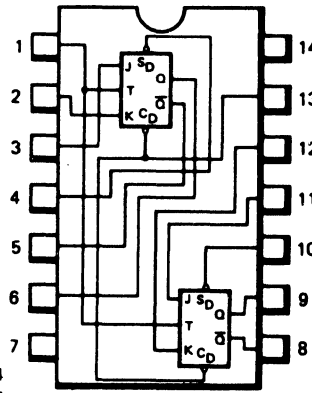
B08-122



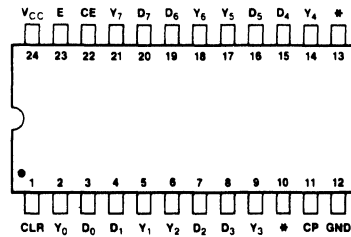
B08-123



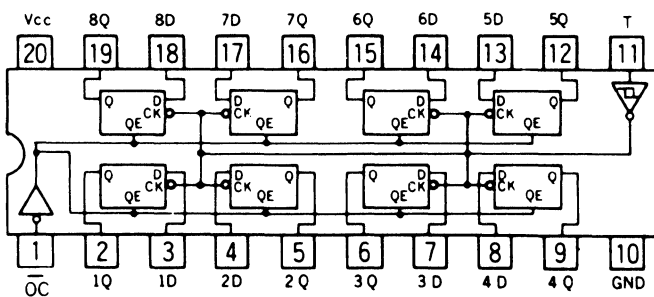
B08-124



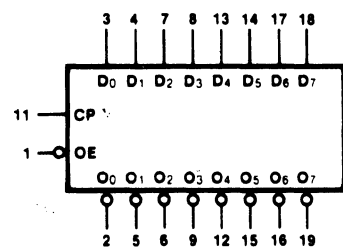
B08-131



B08-137

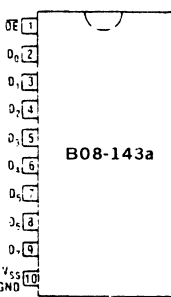
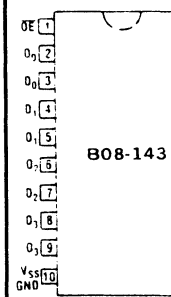


B08-140

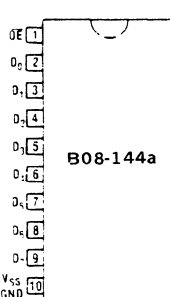
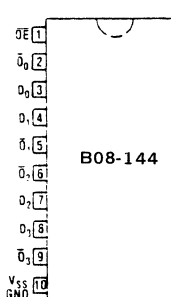


VCC = Pin 20
GND = Pin 10

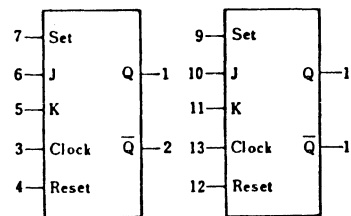
B08-143



B08-144



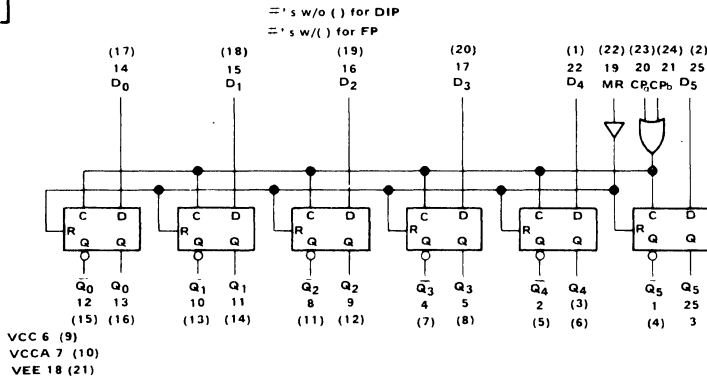
B08-146



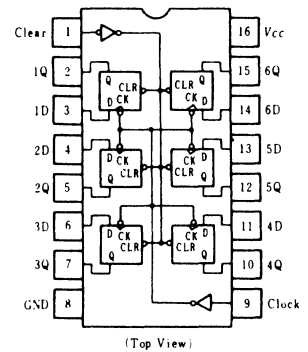
VDD = 16, VSS = 8

29. LOGIC/BLOCK DRAWINGS

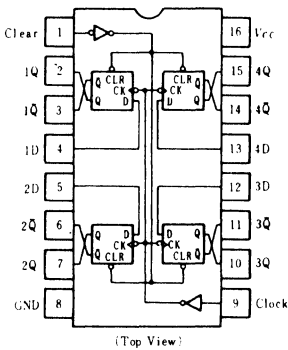
B08-147



B08-148

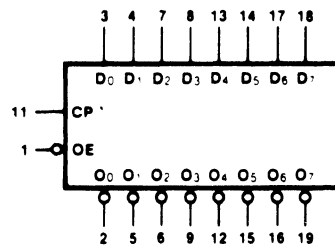


B08-149



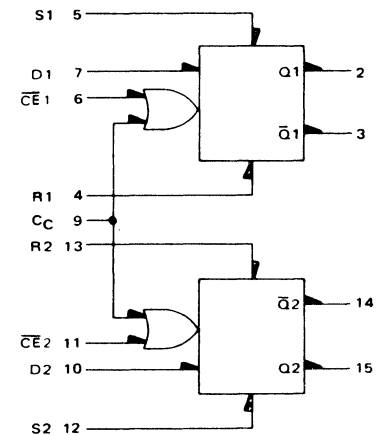
B08-150

Octal D-Type Edge Triggered Inverting Flip-Flop with 3-State Output

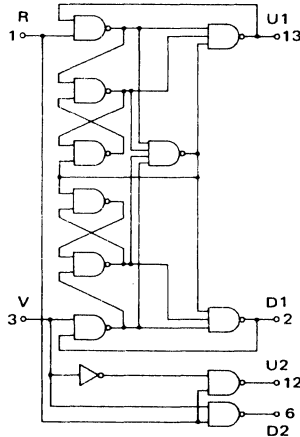


*B08-150A — Non Inverting

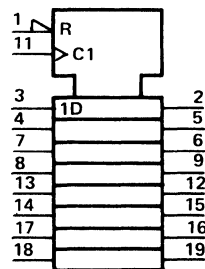
B08-151



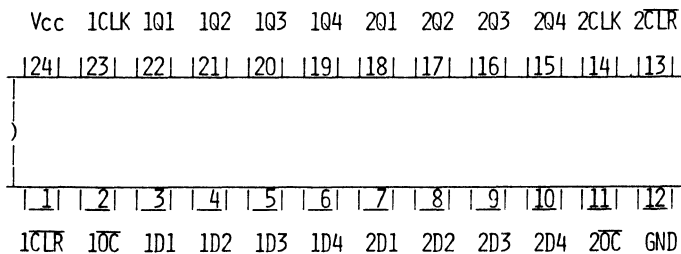
B08-152



B08-153

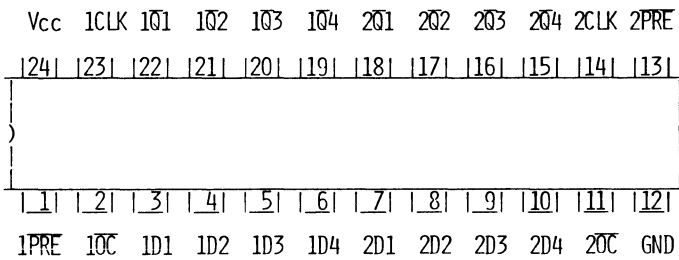


B08-155

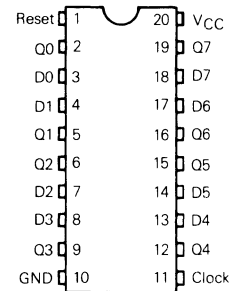


29. LOGIC/BLOCK DRAWINGS

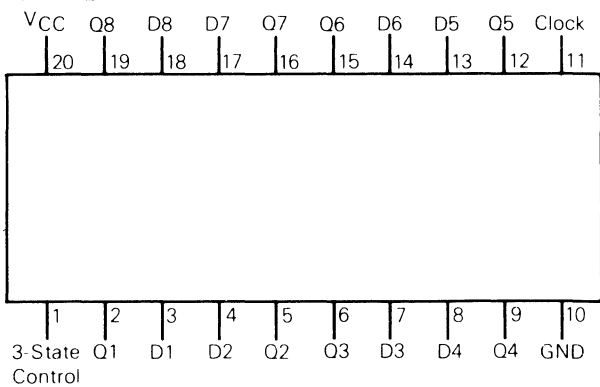
B08-156



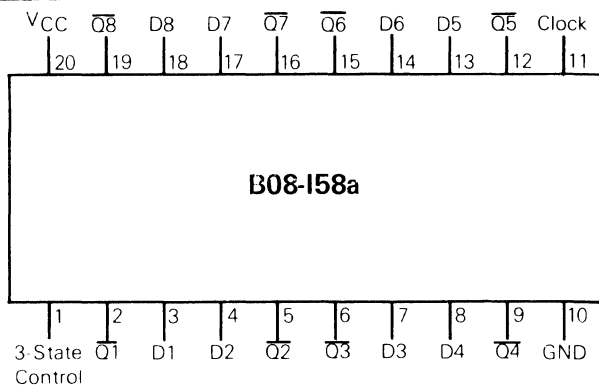
B08-157



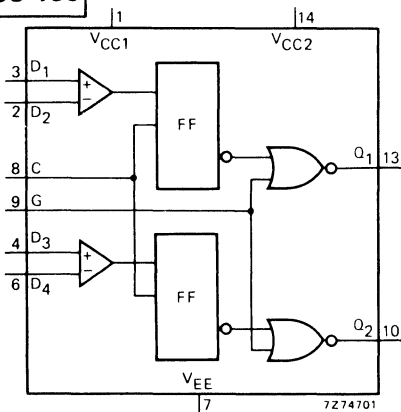
B08-158



B08-158a

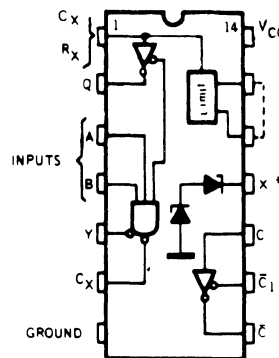


B08-160

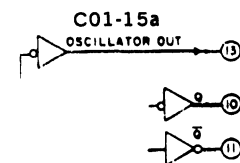


C01-14

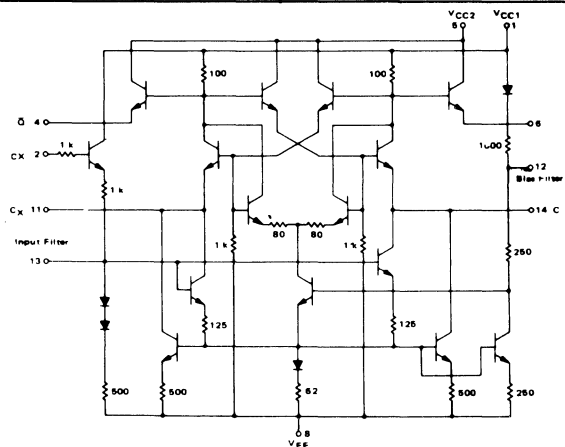
* C0114a = Pre-limiter connection



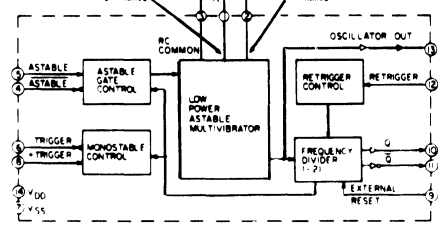
C01-15



C01-16

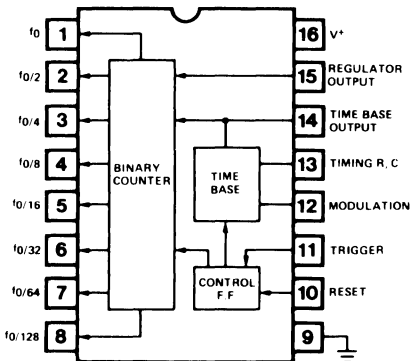


C01-15a

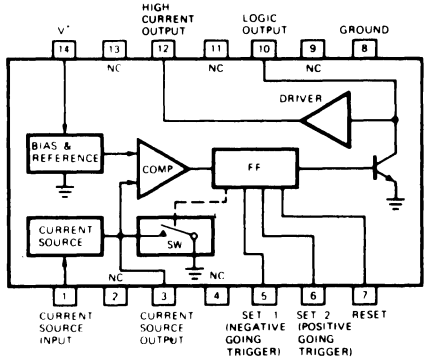


29. LOGIC/BLOCK DRAWINGS

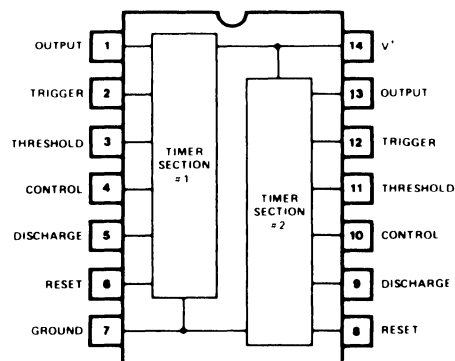
C01-19



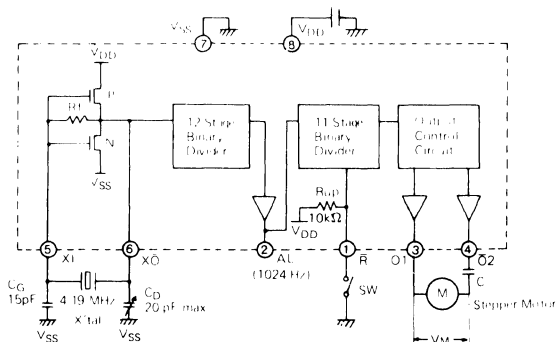
C01-21



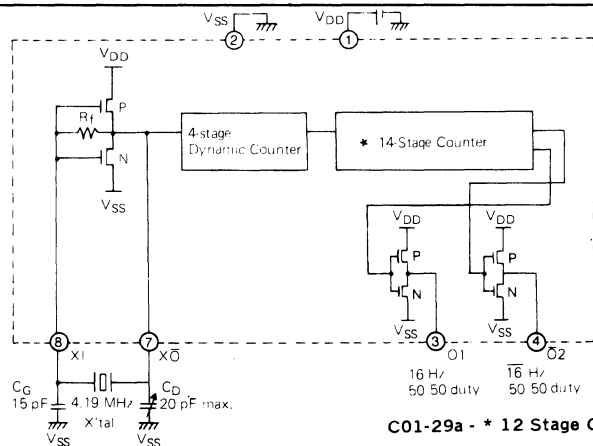
C01-25



C01-27

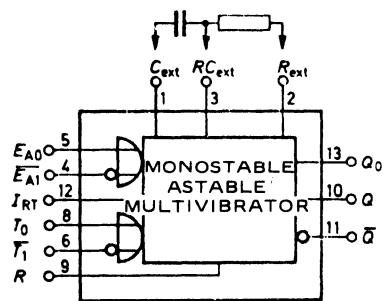


C01-29

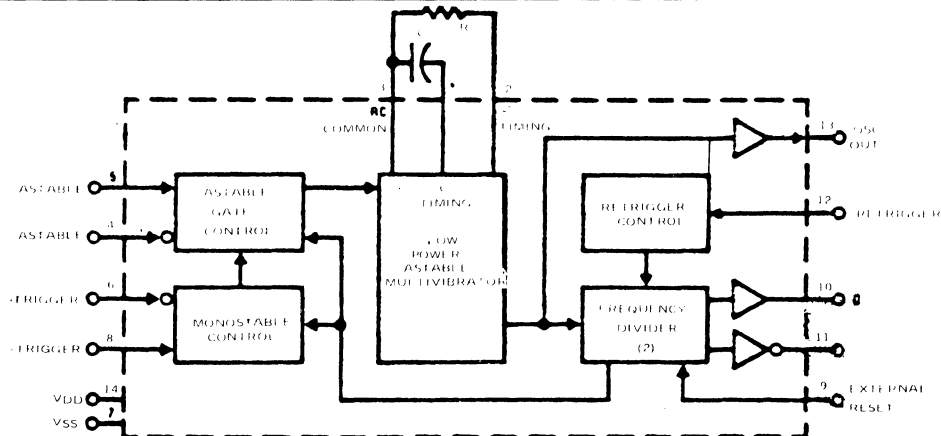


C01-29a - * 12 Stage Counter

C01-30

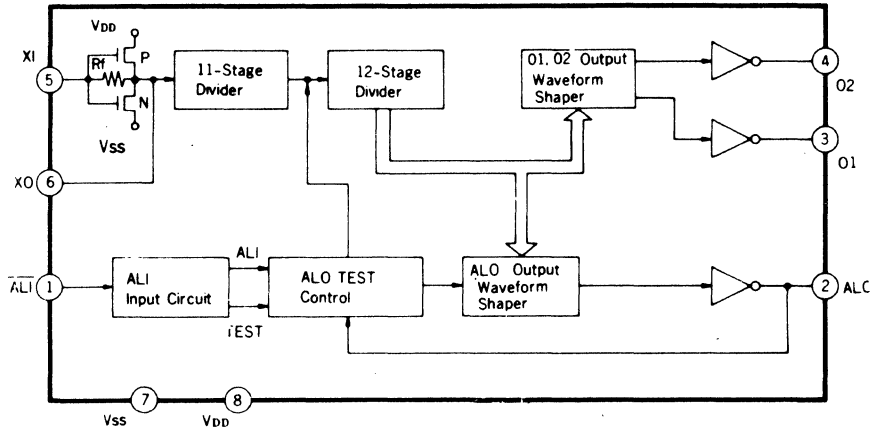


C01-31

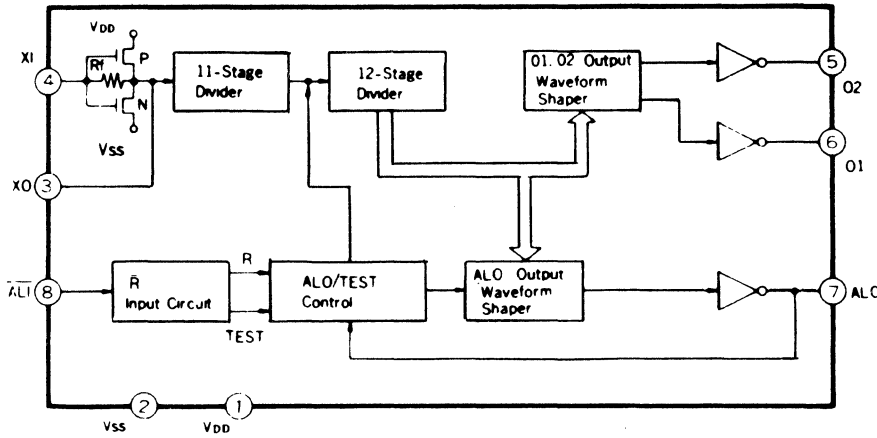


29. LOGIC/BLOCK DRAWINGS

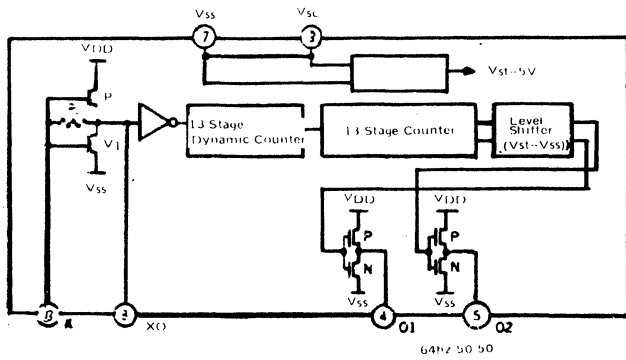
C01-32



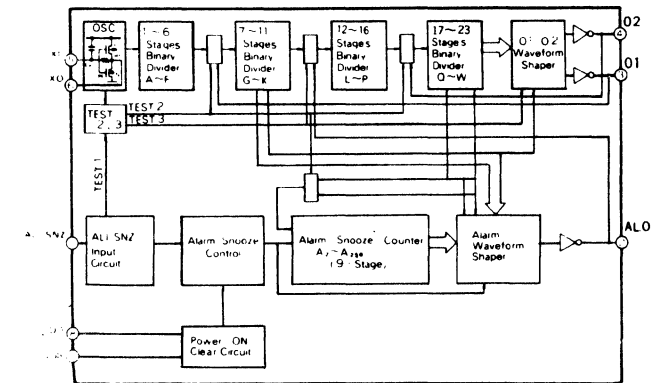
C01-34



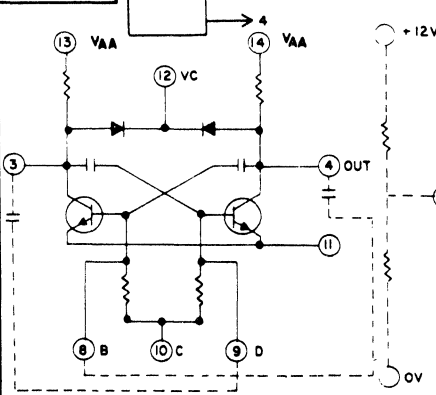
C01-35



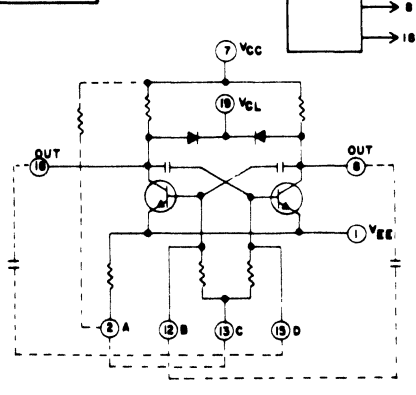
C01-36



C03-10



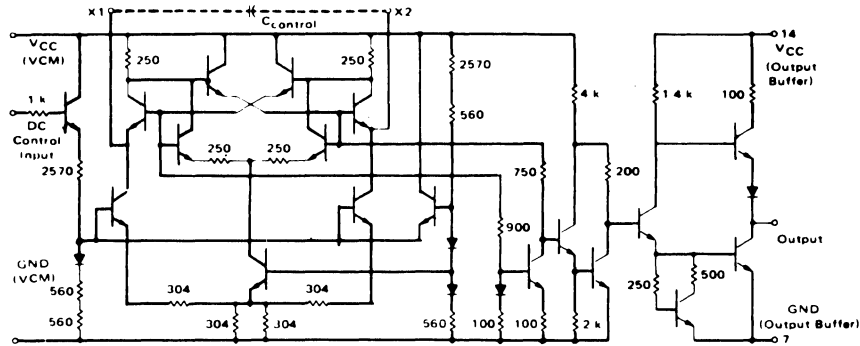
C03-11



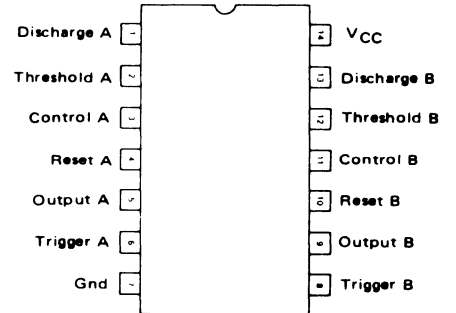
29. LOGIC/BLOCK DRAWINGS

C03-23

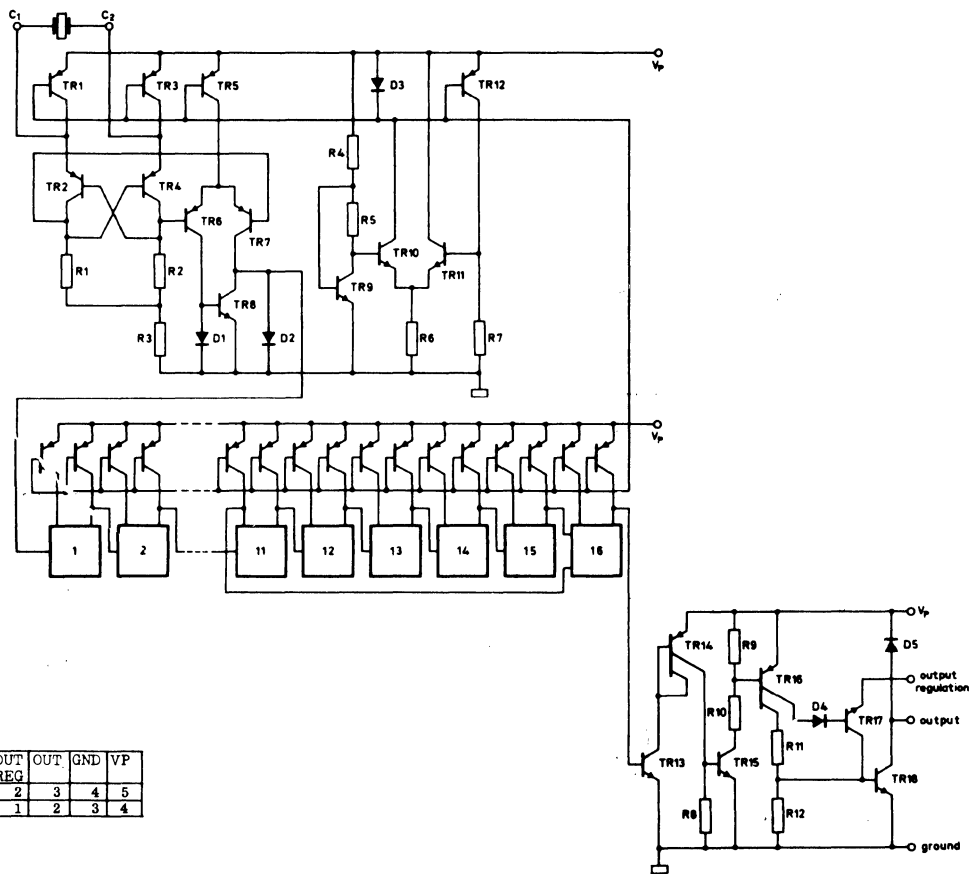
CKT	V _{CC}	DC	CONT. IN.	GND	X1	X2	OUT
1	1	2	5	4	3	6	
2	13	12	9	10	11	8	



C03-26

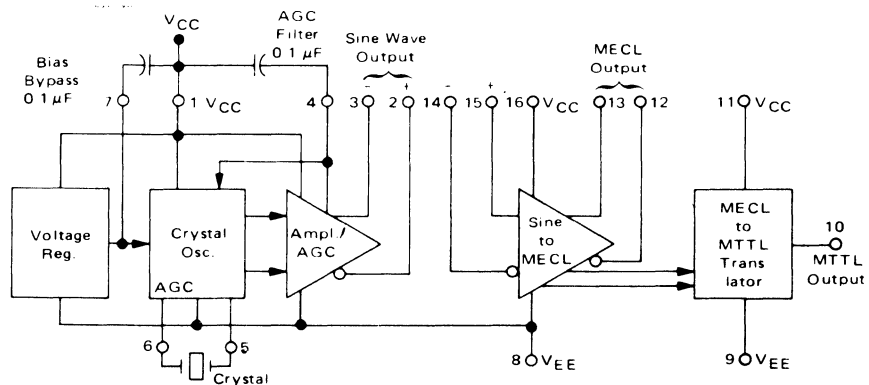


C04-35



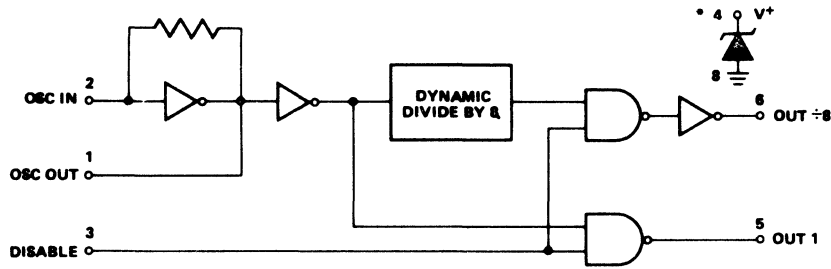
	C1	C2	OUT	OUT	GND	VP
C04-35	TO99	1	8	2	3	4
	DIL	7	8	1	2	3

C04-37

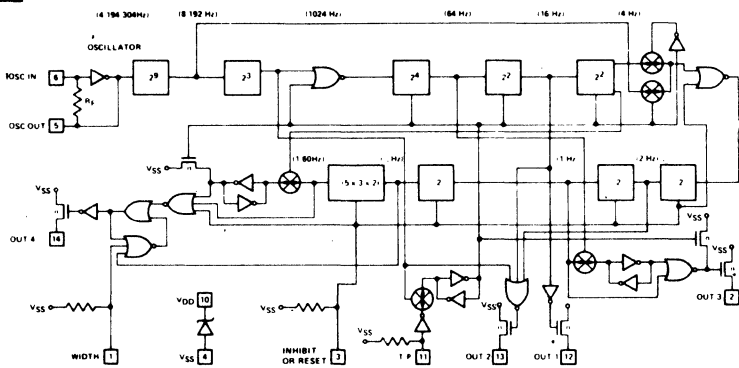


29. LOGIC/BLOCK DRAWINGS

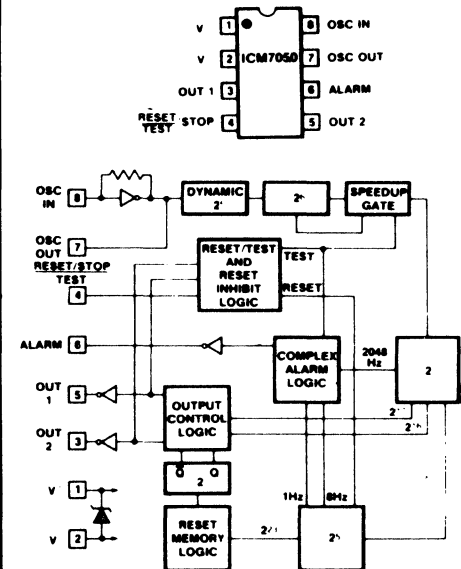
C04-46



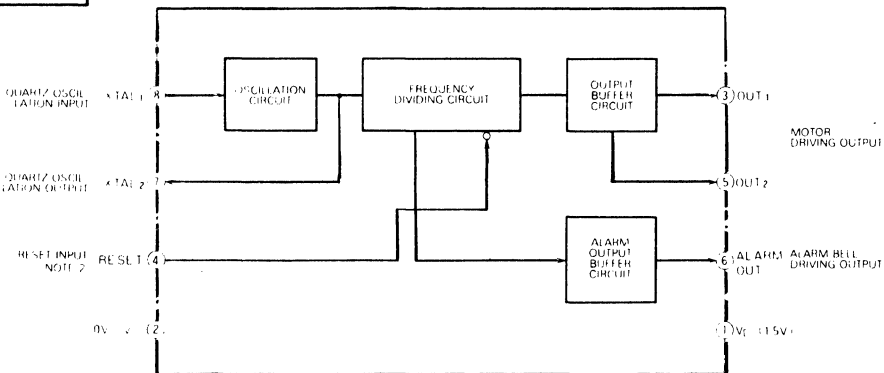
C04-47



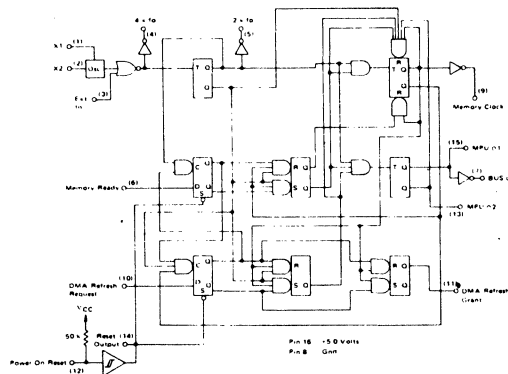
C04-48



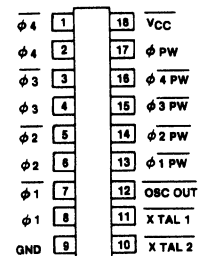
C04-49



C04-50

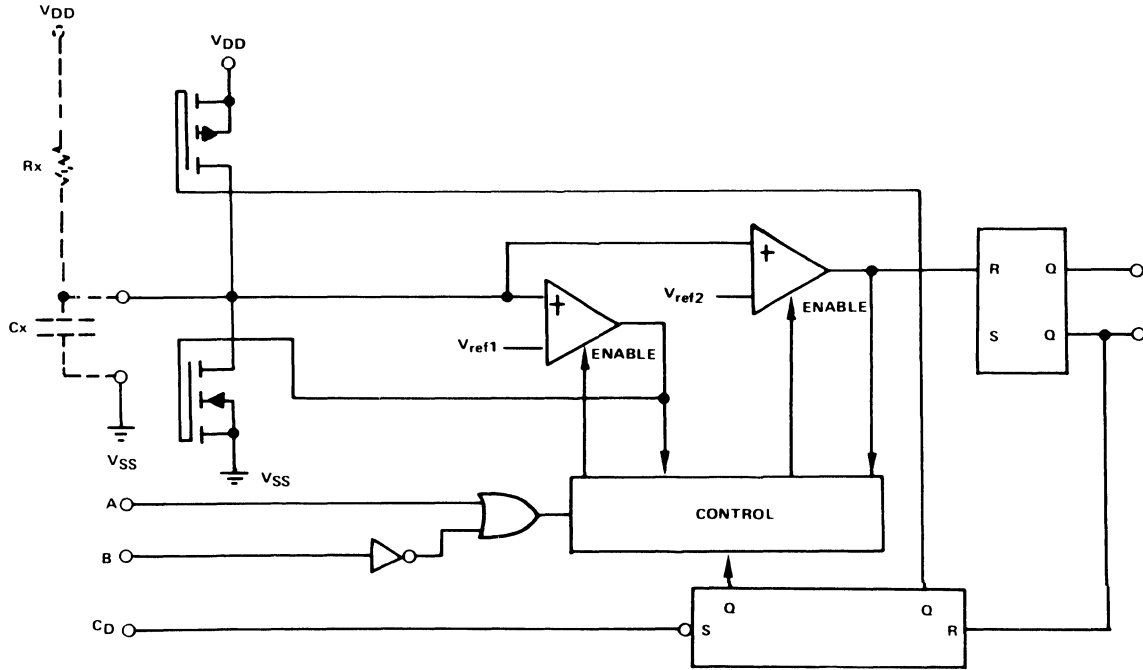


C04-51

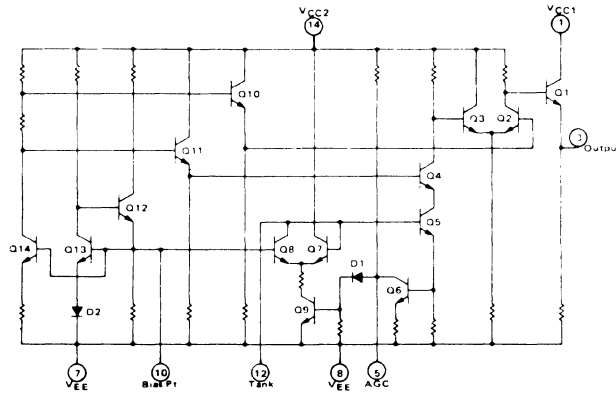


29. LOGIC/BLOCK DRAWINGS

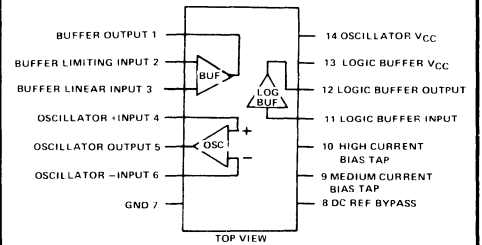
C04-52



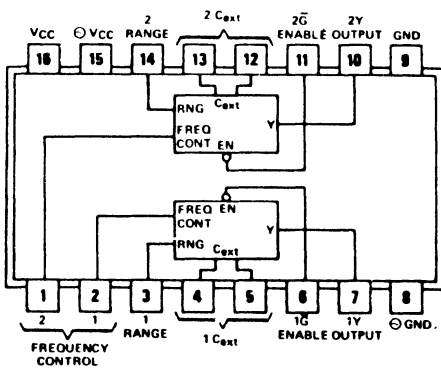
C06-12



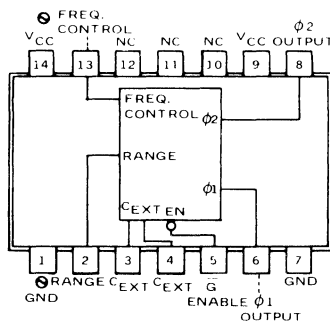
C06-13



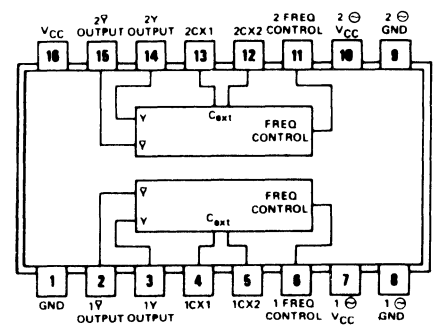
C07-01



C07-02

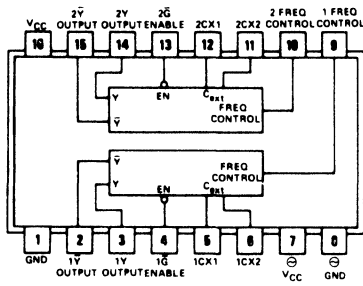


C07-03

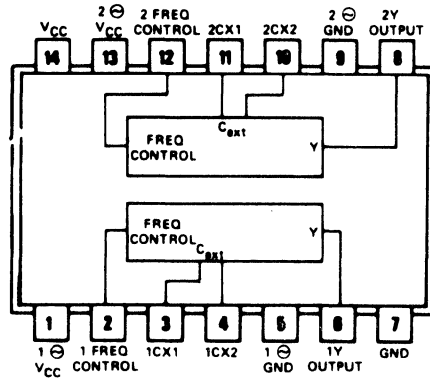


29. LOGIC/BLOCK DRAWINGS

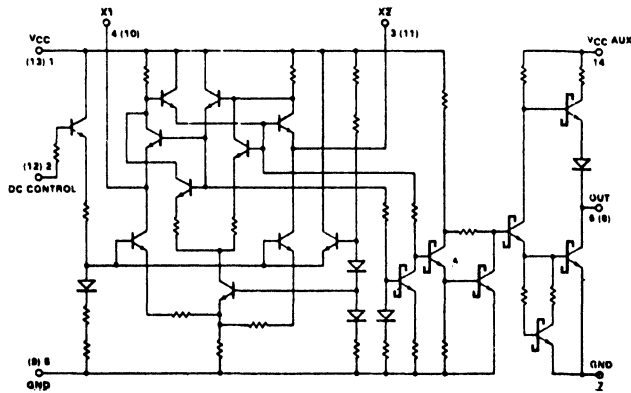
C07-04



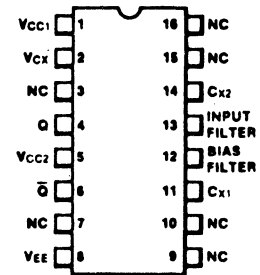
C07-05



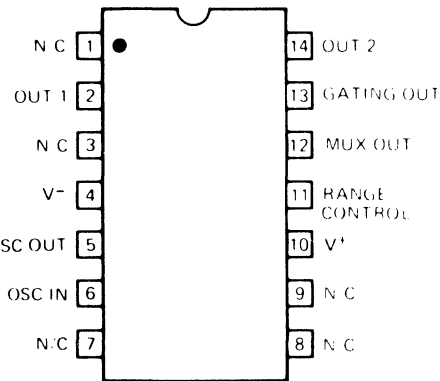
C07-06



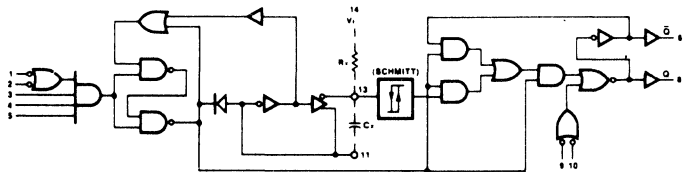
C07-07



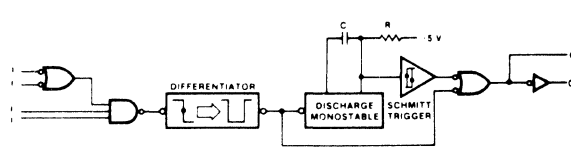
C07-08



C08-01

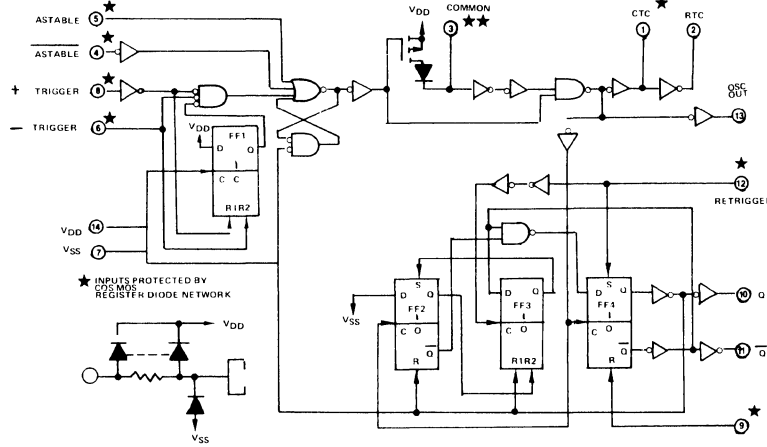


C08-02

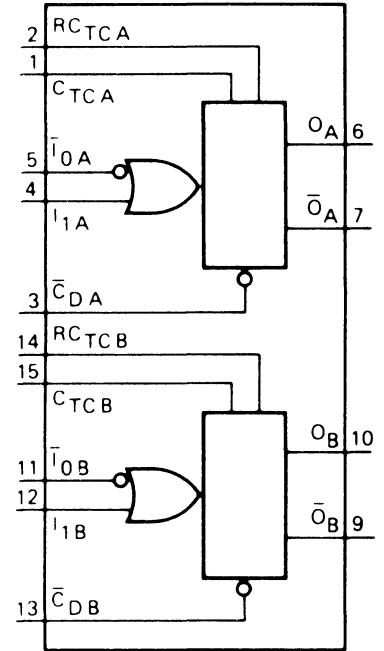


29. LOGIC/BLOCK DRAWINGS

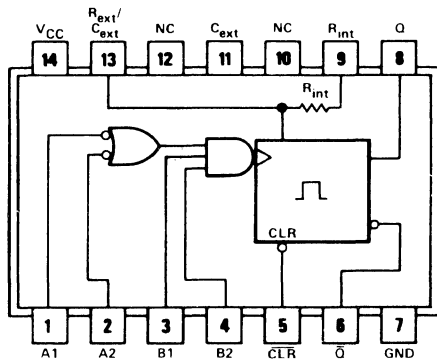
C08-04



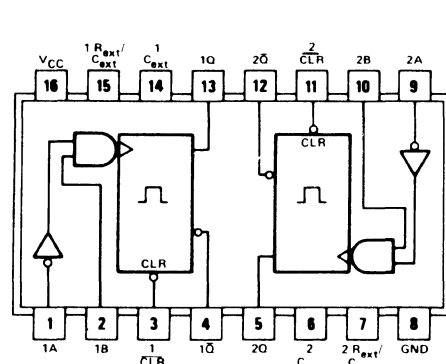
C08-08



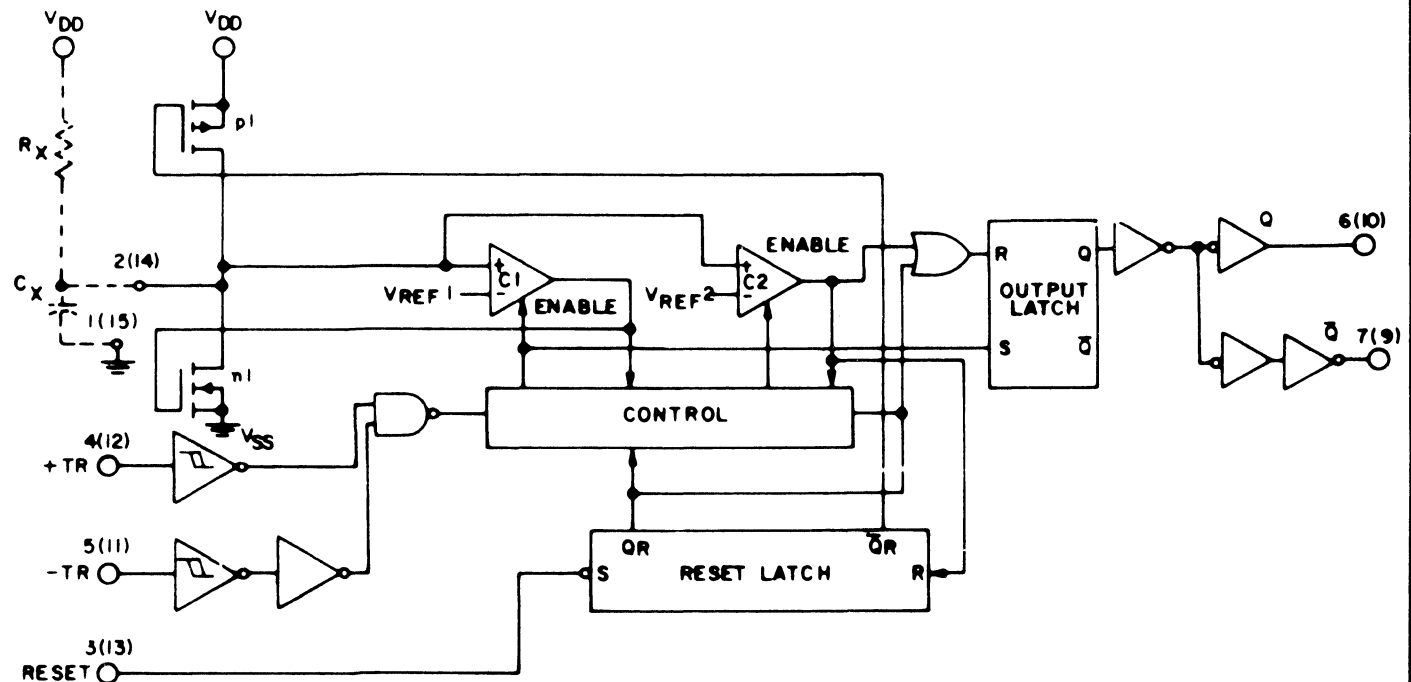
C08-09



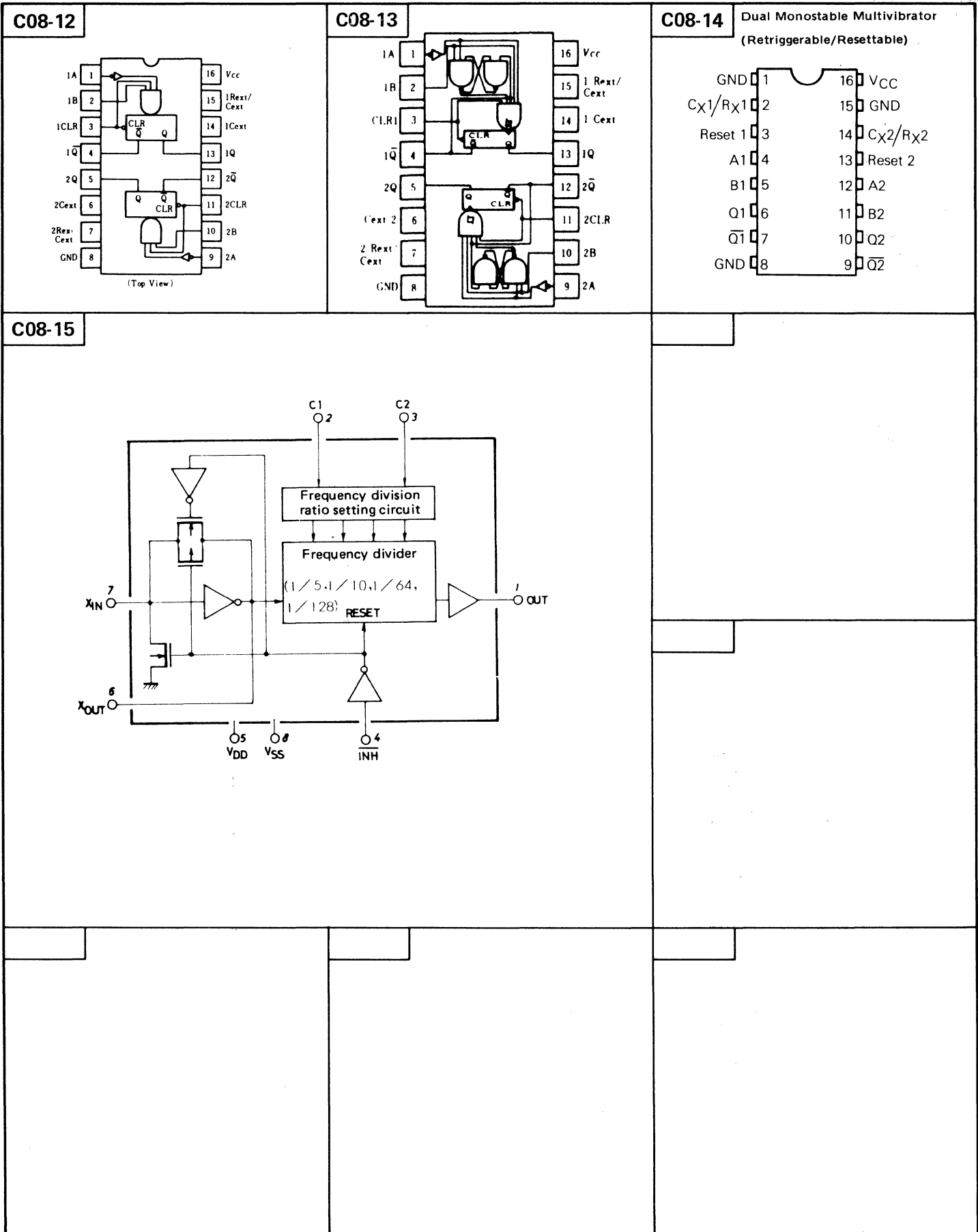
C08-10



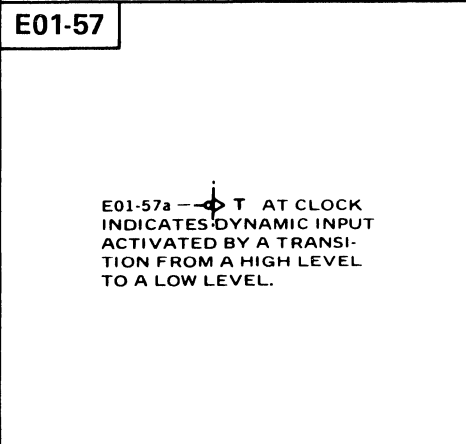
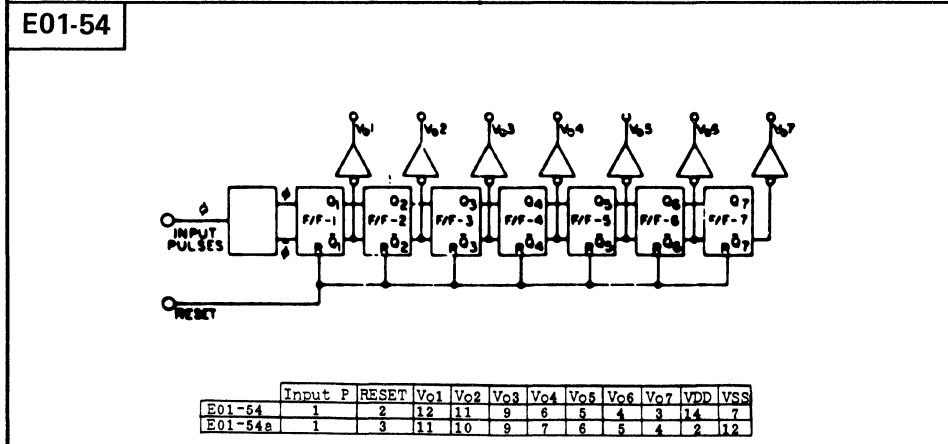
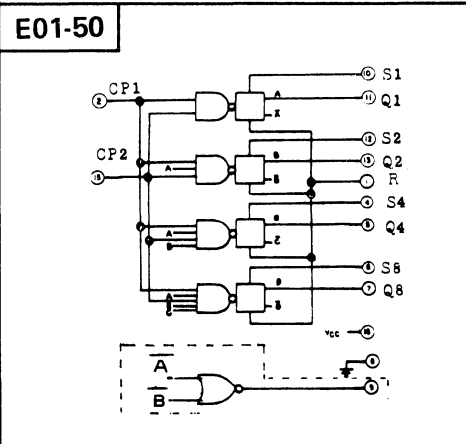
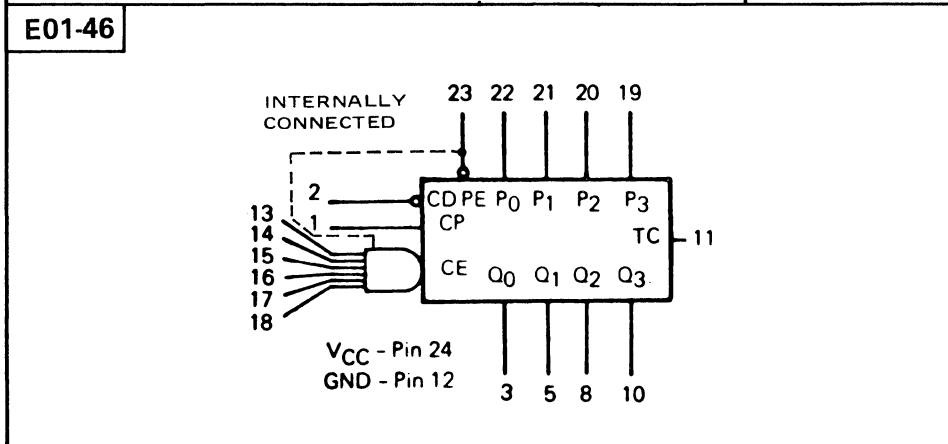
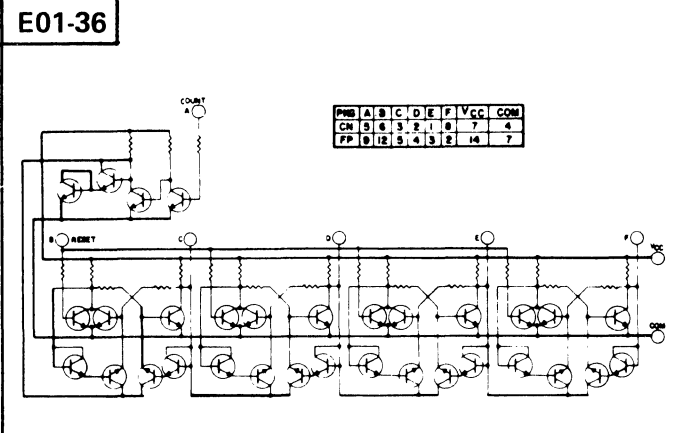
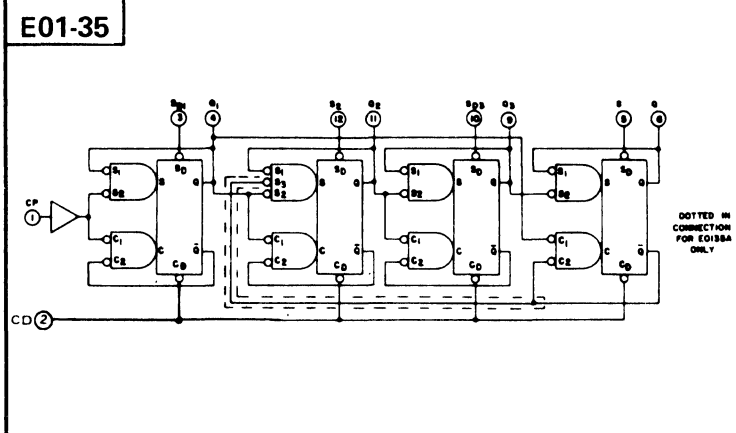
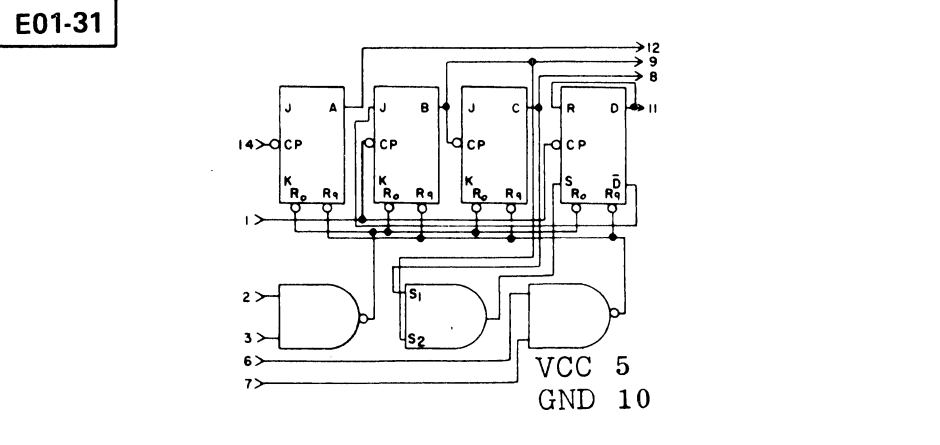
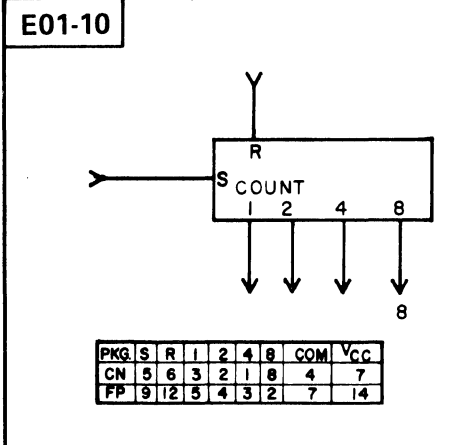
C08-11



29. LOGIC/BLOCK DRAWINGS

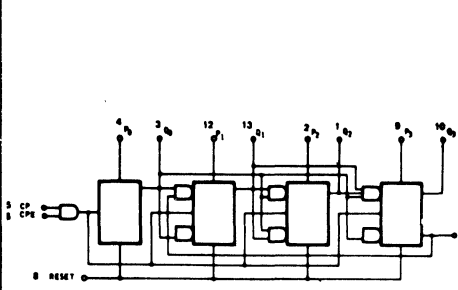


29. LOGIC/BLOCK DRAWINGS

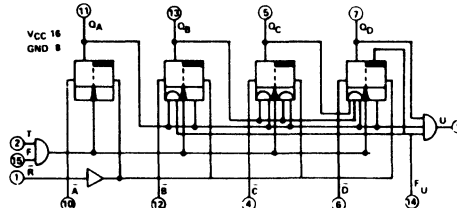


29. LOGIC/BLOCK DRAWINGS

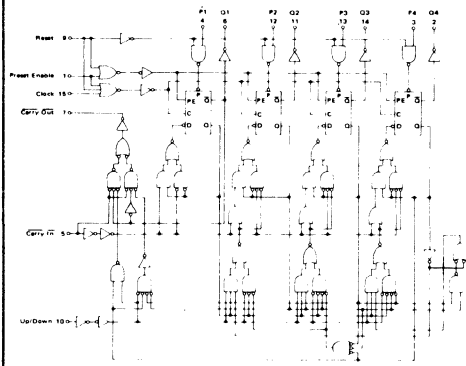
E01-62



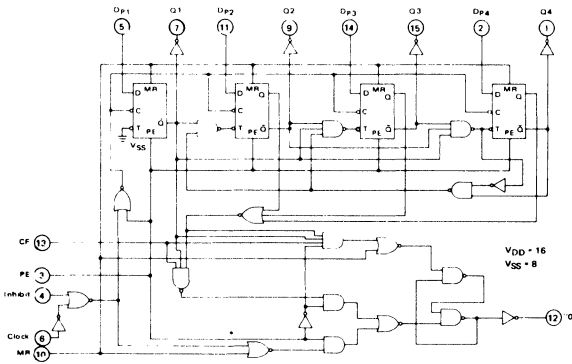
E01-69



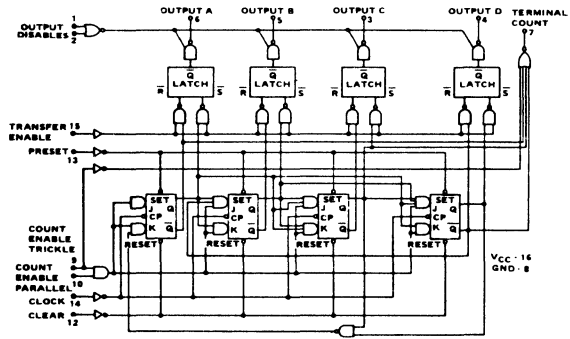
E01-73



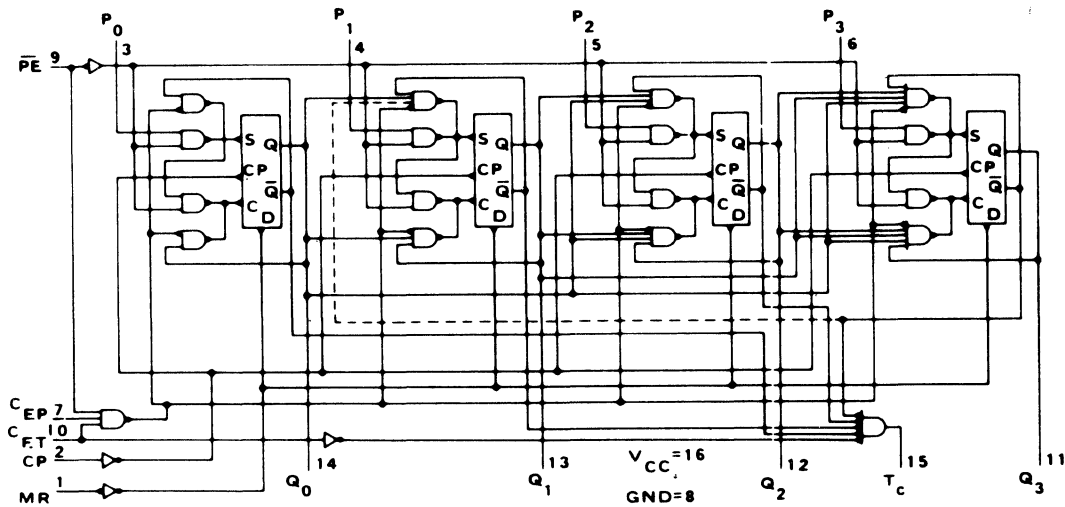
E01-77



E01-78



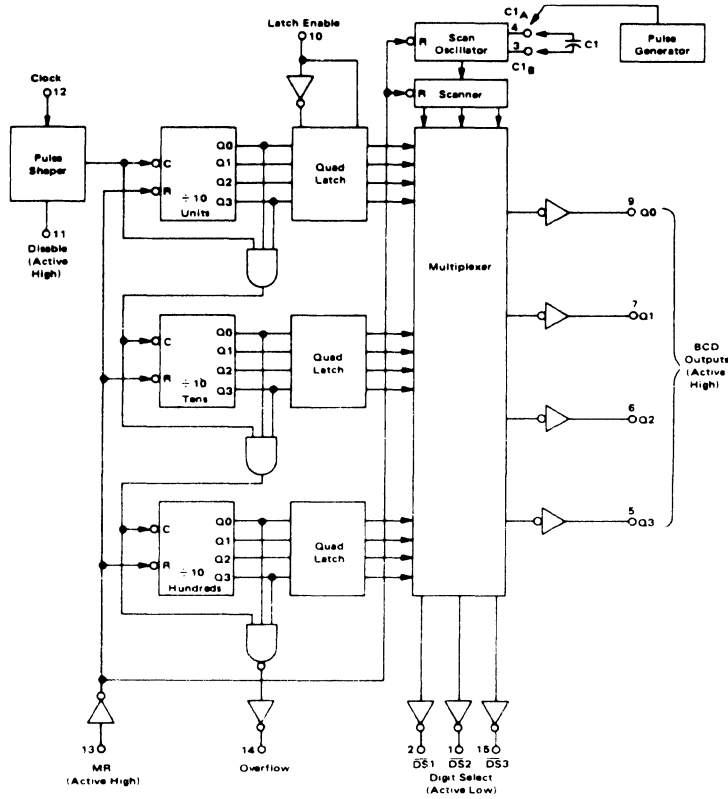
E01-79



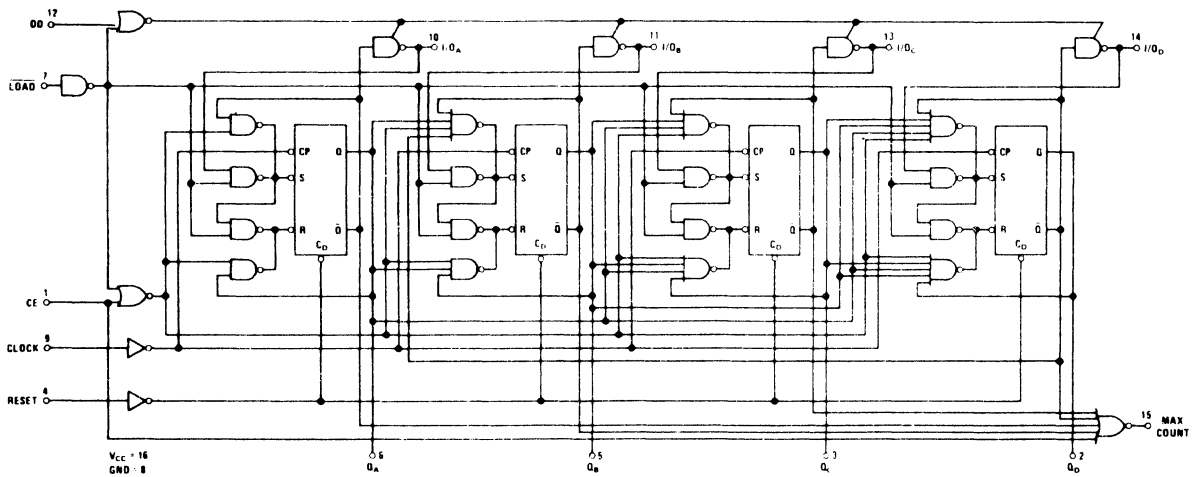
NOTE: DOTTED PORTIONS FOR E01-79a ONLY

29. LOGIC/BLOCK DRAWINGS

E01-83

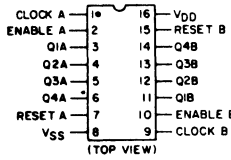


E01-93

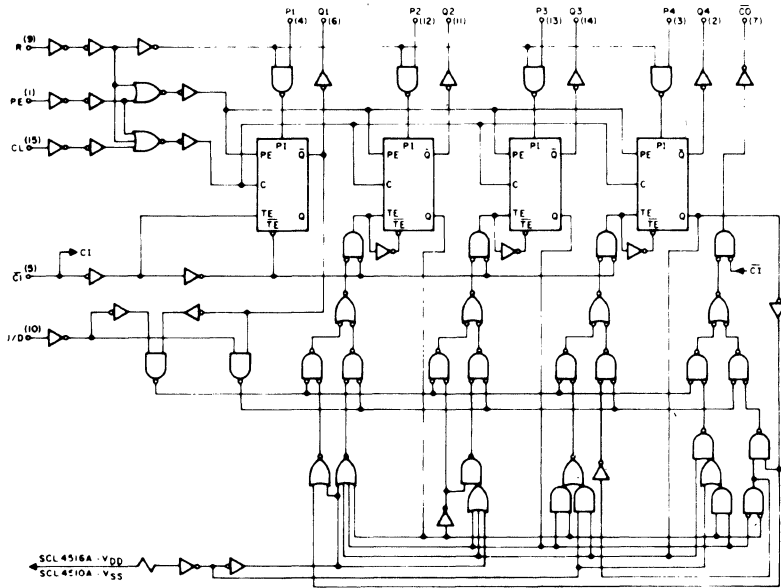


29. LOGIC/BLOCK DRAWINGS

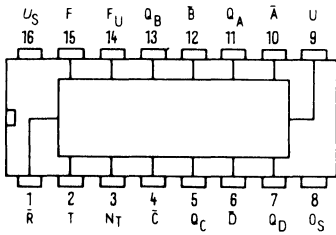
E01-98



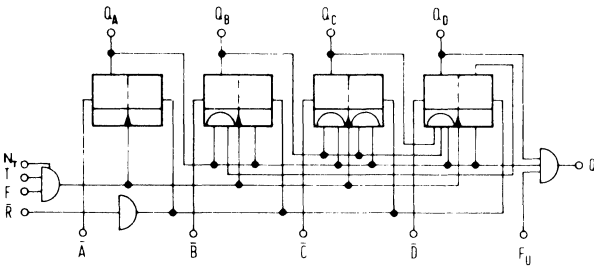
E01-99



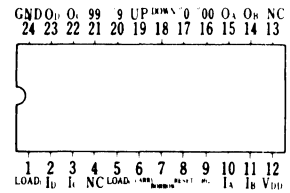
E01-103



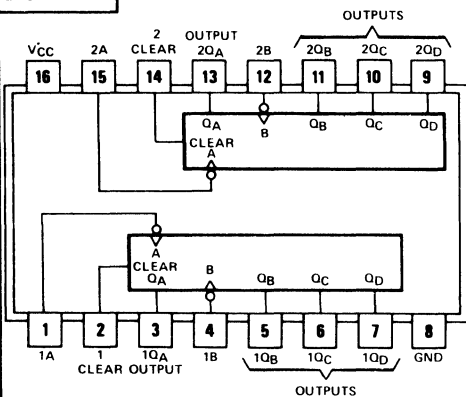
E01-103a



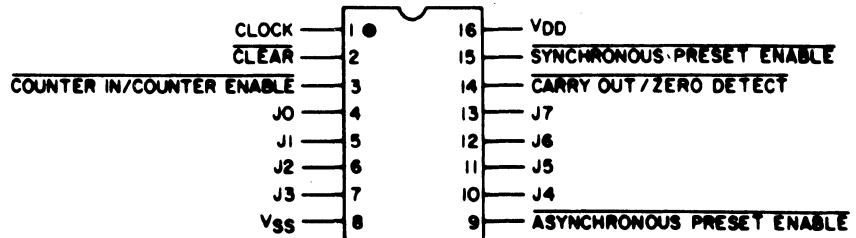
E01-106



E01-113

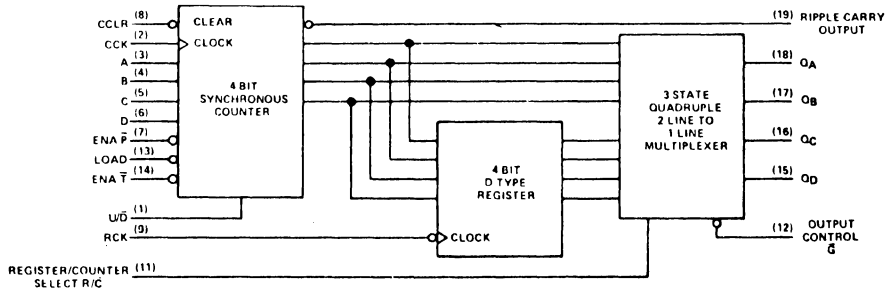


E01-116

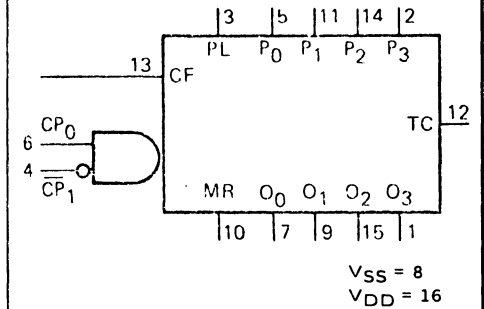


29. LOGIC/BLOCK DRAWINGS

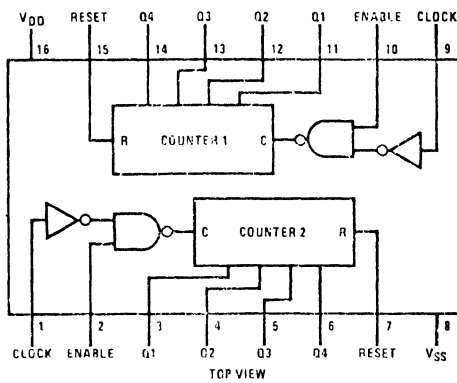
E01-124



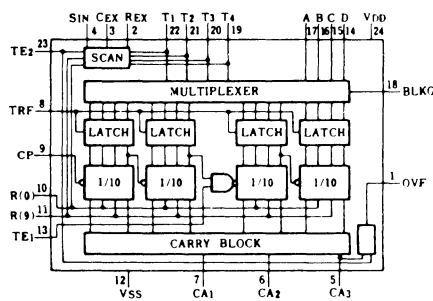
E01-128



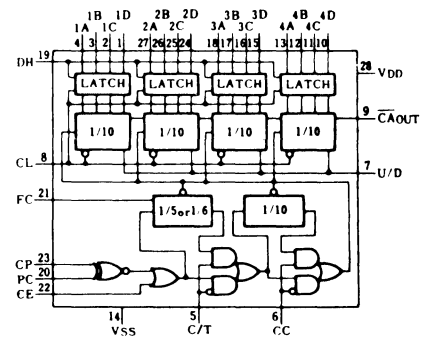
E01-136



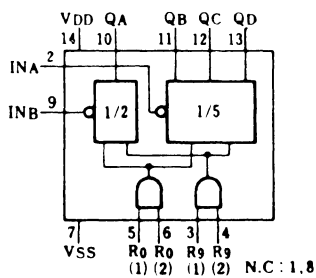
E01-139



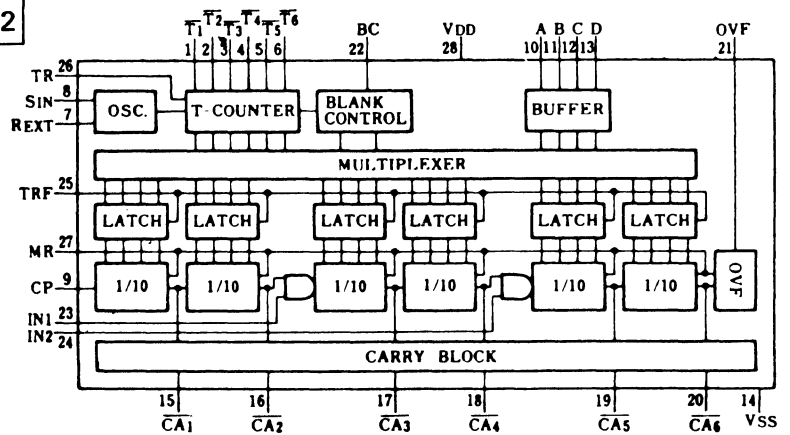
E01-140



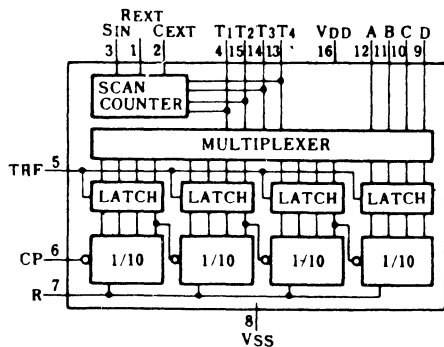
E01-141



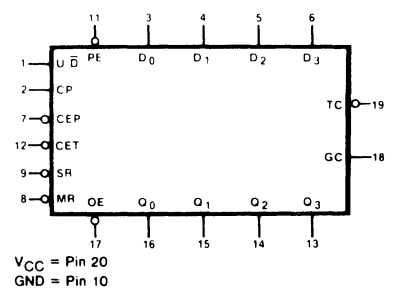
E01-142



E01-143

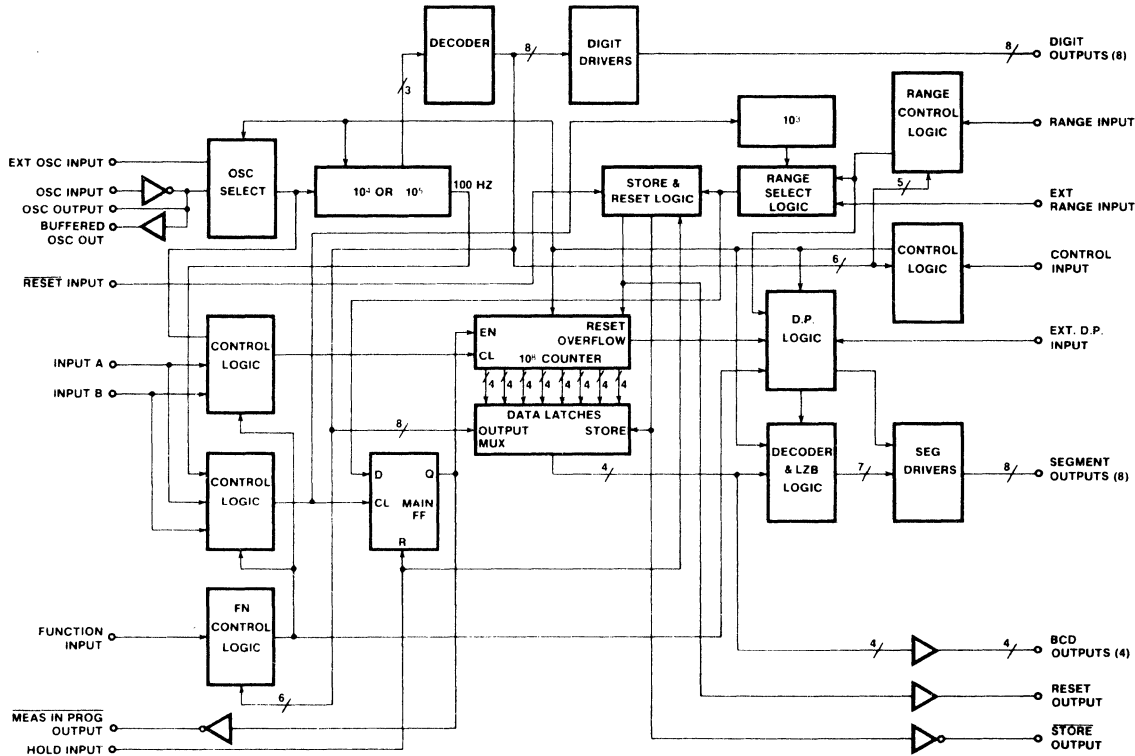


E01-149

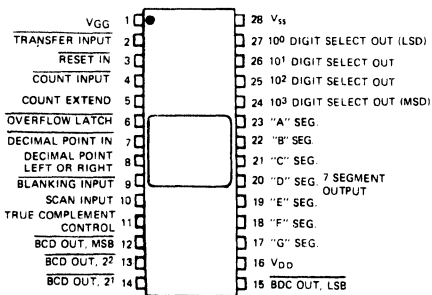


29. LOGIC/BLOCK DRAWINGS

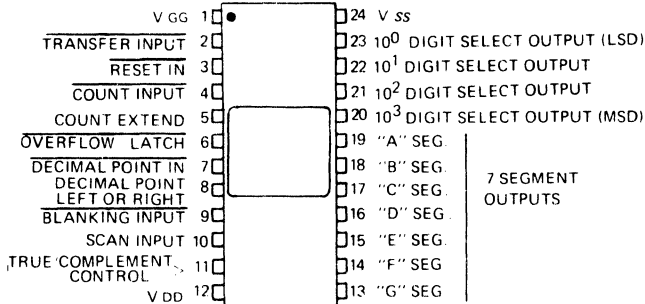
E01-150



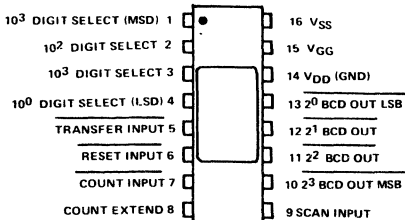
E01-151



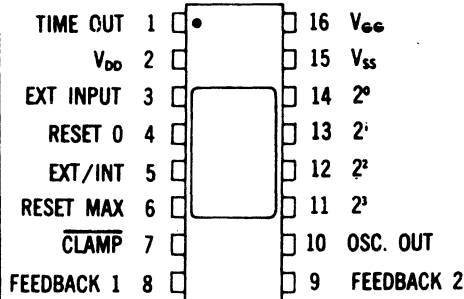
E01-152



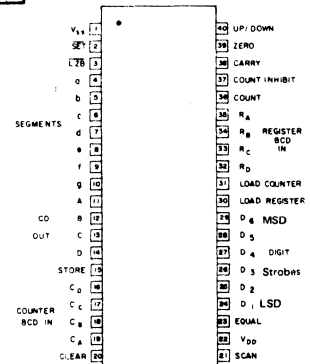
E01-153



E01-154

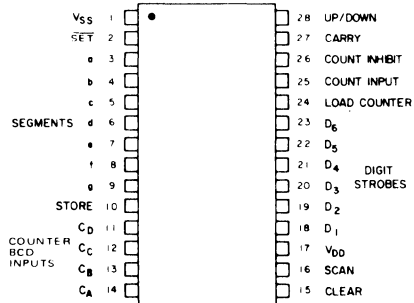


E01-155

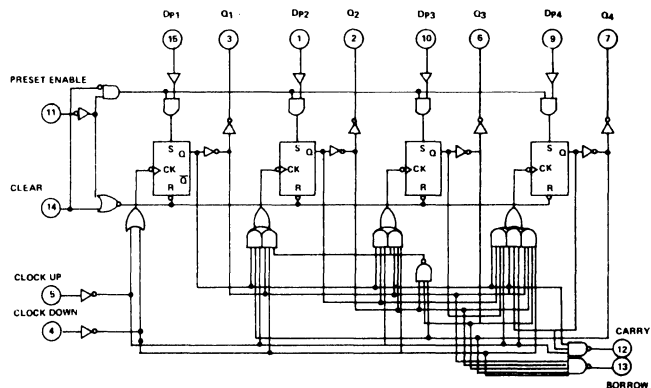


29. LOGIC/BLOCK DRAWINGS

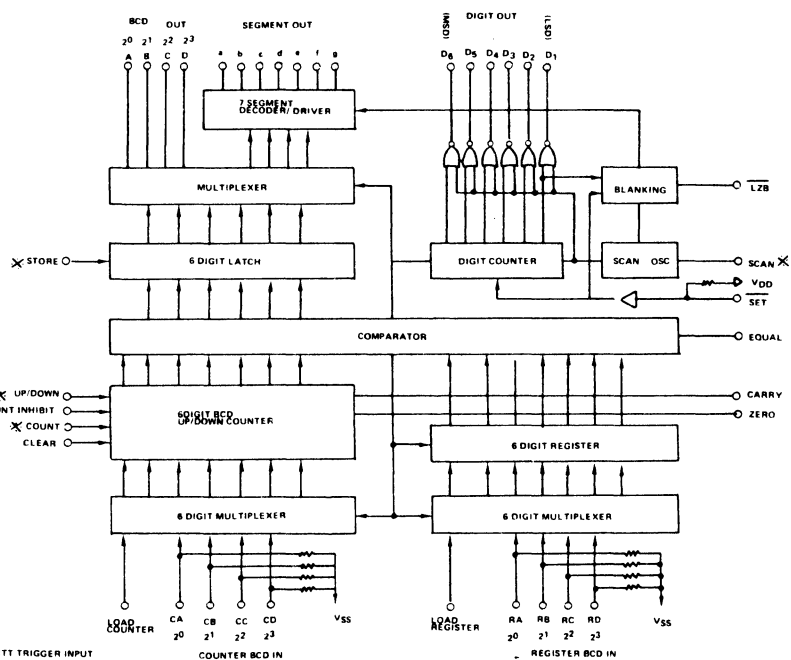
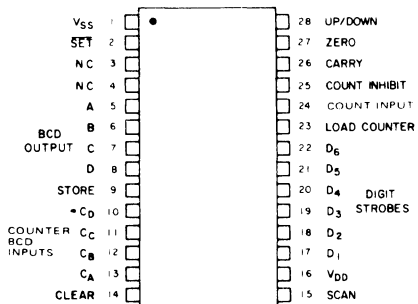
E01-156



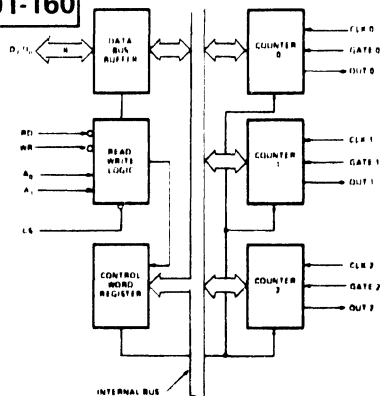
E01-157



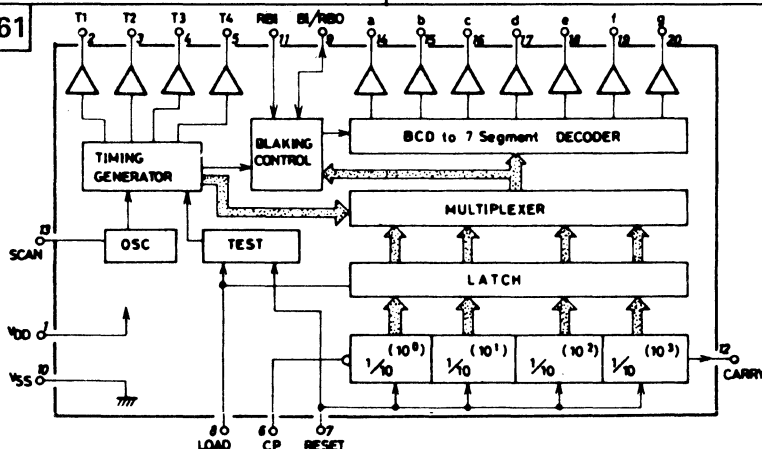
E01-158



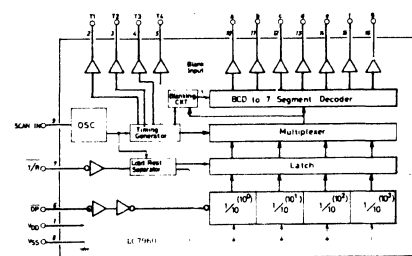
E01-160



E01-161

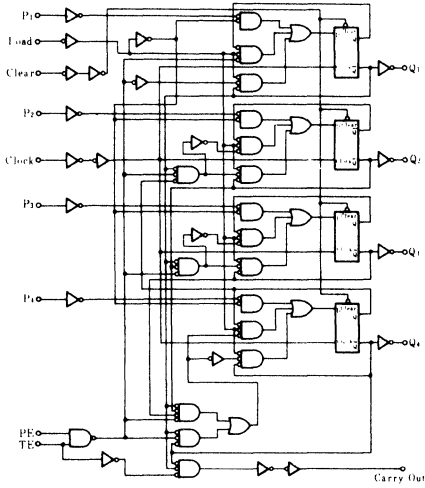


E01-162

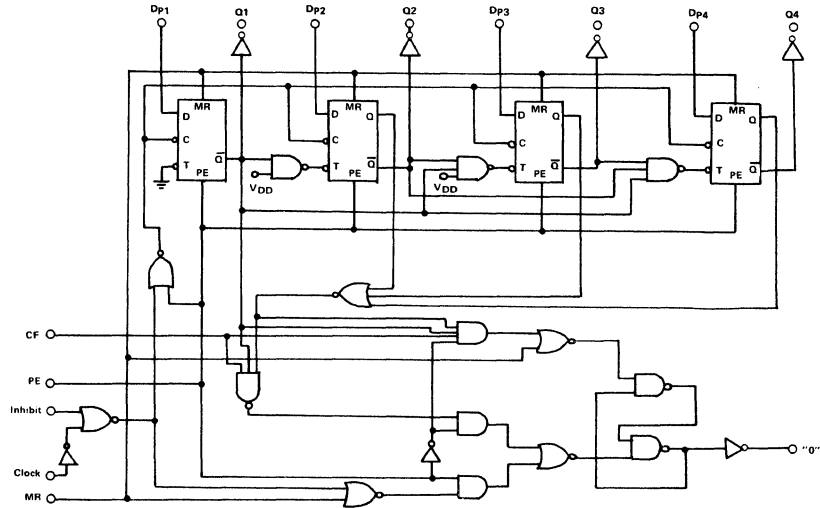


29. LOGIC/BLOCK DRAWINGS

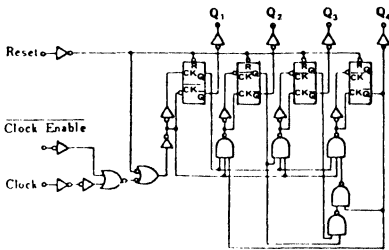
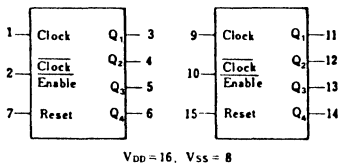
E01-163



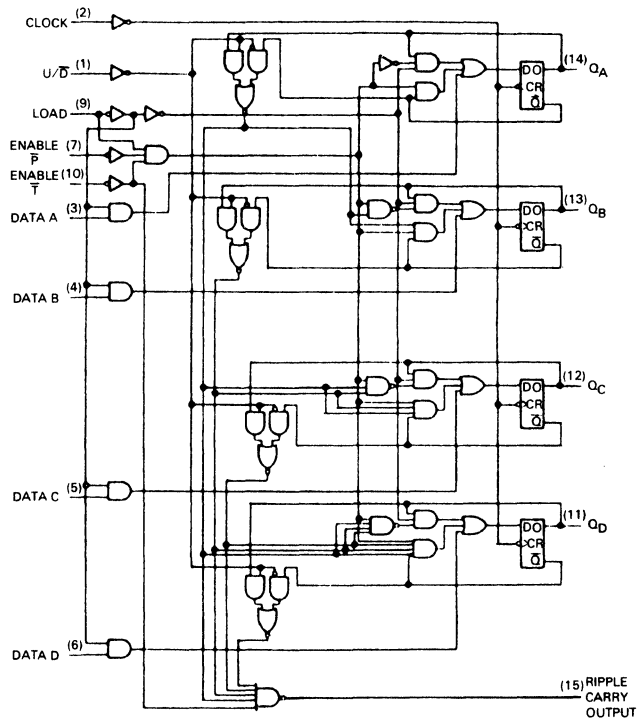
E01-164



E01-165

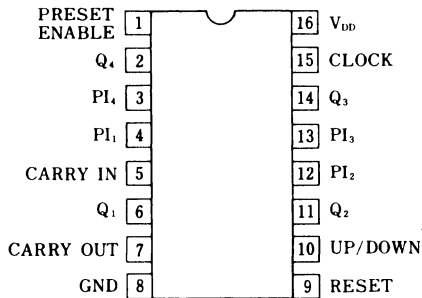


E01-166

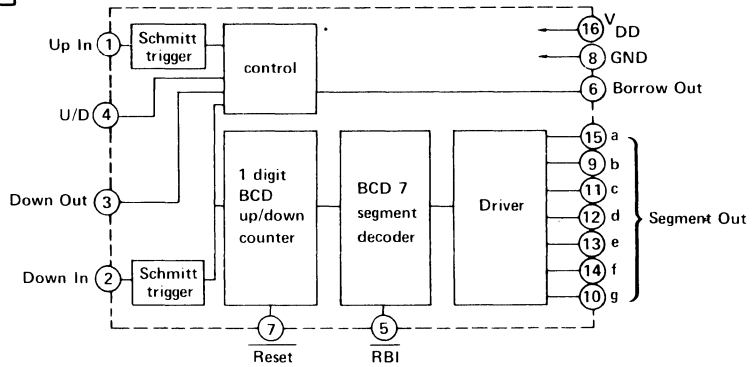


29. LOGIC/BLOCK DRAWINGS

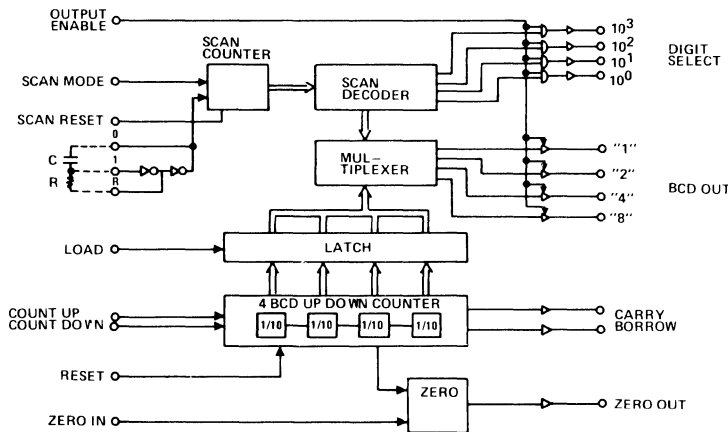
E01-167



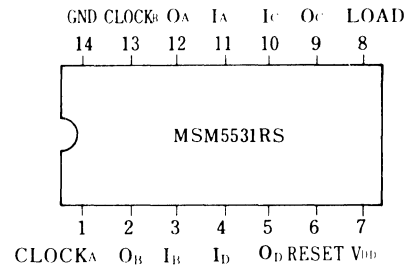
E01-168



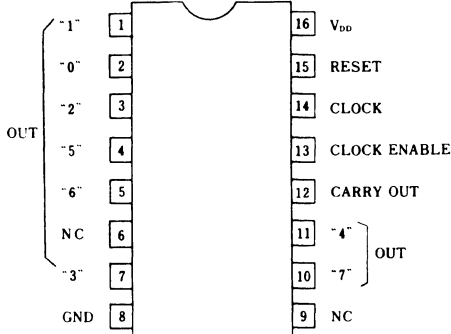
E01-169



E01-170

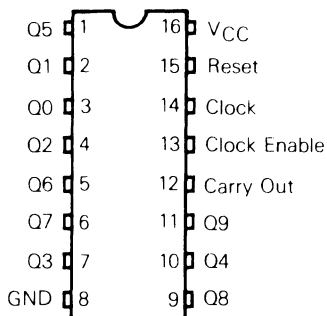


E01-171



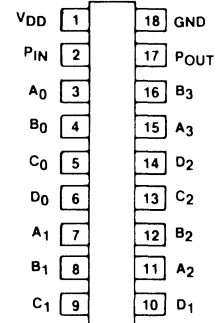
E01-172

Decade Counter/Divider

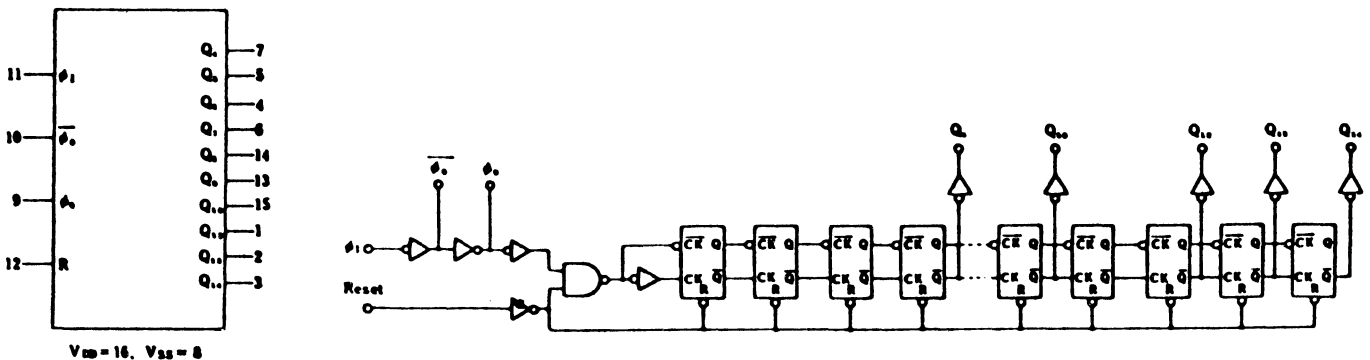


E01-173

BCD Programmable Counter



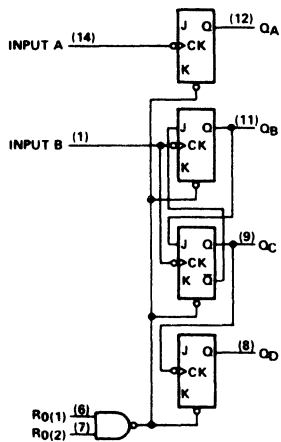
E01-181



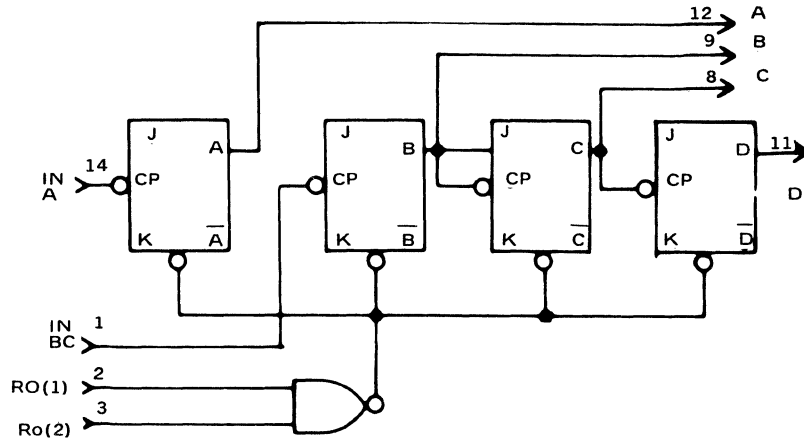
29. LOGIC/BLOCK DRAWINGS

E02-34

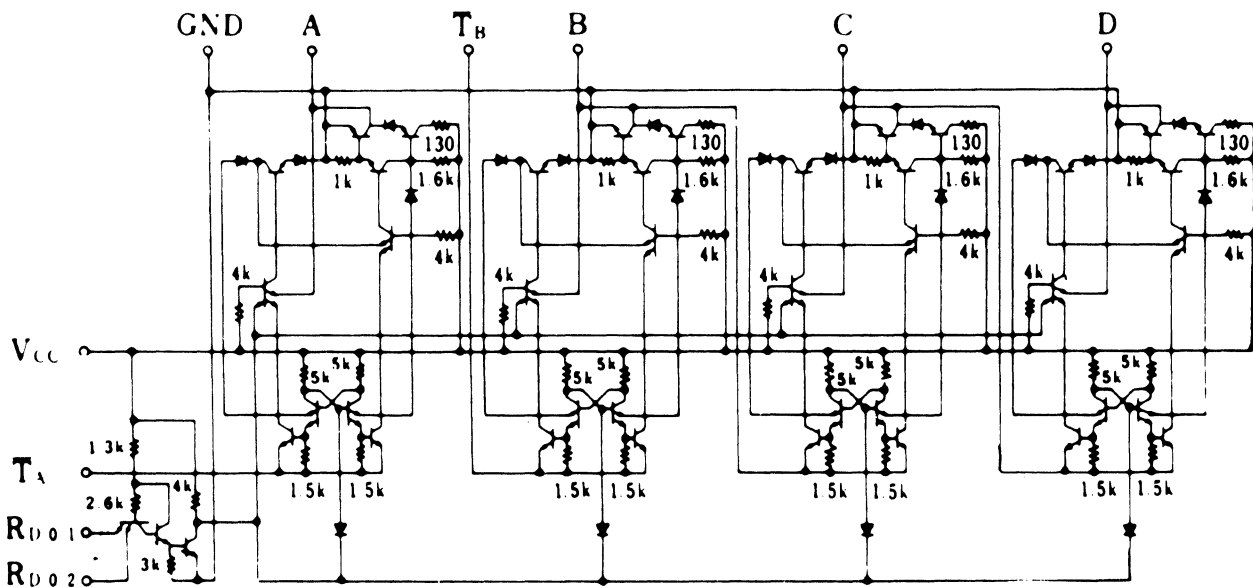
RO2=Pin 13
RO2= Pin 3



E02-35



E02-46



DWG NO	CKT NO	T _A	T _B	R _{D(0)1}	R _{D(0)2}	A	B	C	D	VCC	COM
E0246	1	8	9	10	11	6	4	3	5	14	7
E0246a	1	14	1	2	3	12	9	8	11	5	10
E0246b	1	14	1	6	7	12	11	9	8	5	10

29. LOGIC/BLOCK DRAWINGS

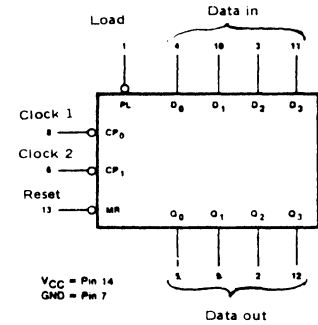
E02-48

E02-48 - Reset is synchronous
 E02-48a - Reset is Asynchronous

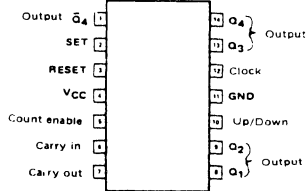
E02-48b

PKG	C1	C2	R	S	D				Q				VCC	GND
					0	1	2	3	0	1	2	3		
FP	12	10	3	5	8	14	7	1	9	13	6	2	4	11
M	8	6	13	1	4	10	3	11	5	9	2	12	14	7

	PKG	A0	B0	C0	D0	C1	C2	STROBE	RESET	DA	DB	DC	DD	VCC	GND
E02-48	MP	5	9	2	12	8	6	1	13	4	10	3	11	14	7
	FP	9	13	6	2	12	10	5	3	8	14	7	1	4	11



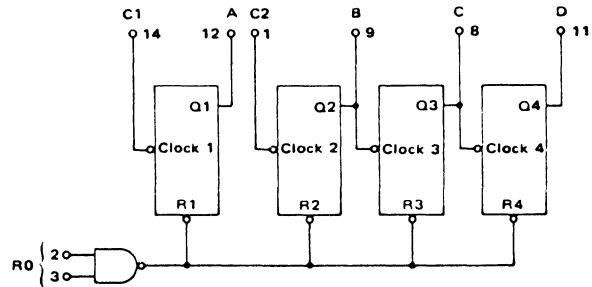
E02-51



NOTE: E02-51 Binary counter (Presets to 15)
 E02-51a BCD counter (Presets to 9)

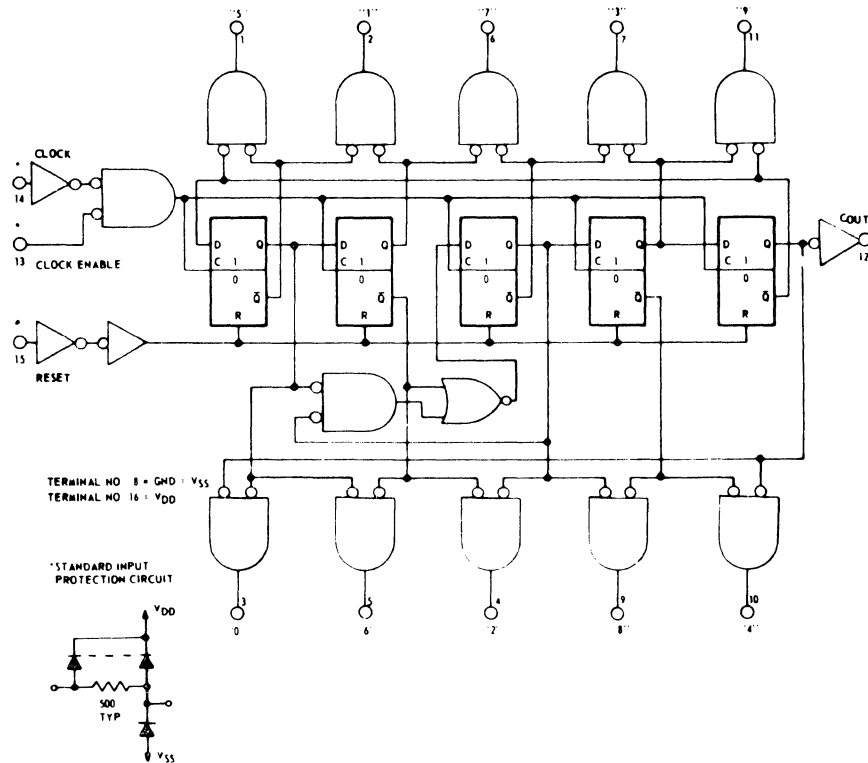
E02-51	PKG	CE	S	C1	C2	LD	Q1	Q2	Q3	Q4	RC	RD	VS
MP	1	2	3	4	5	6	8	10	11	12	13	14	7
FP	5	6	7	8	9	10	12	13	14	1	2	3	11

E02-53



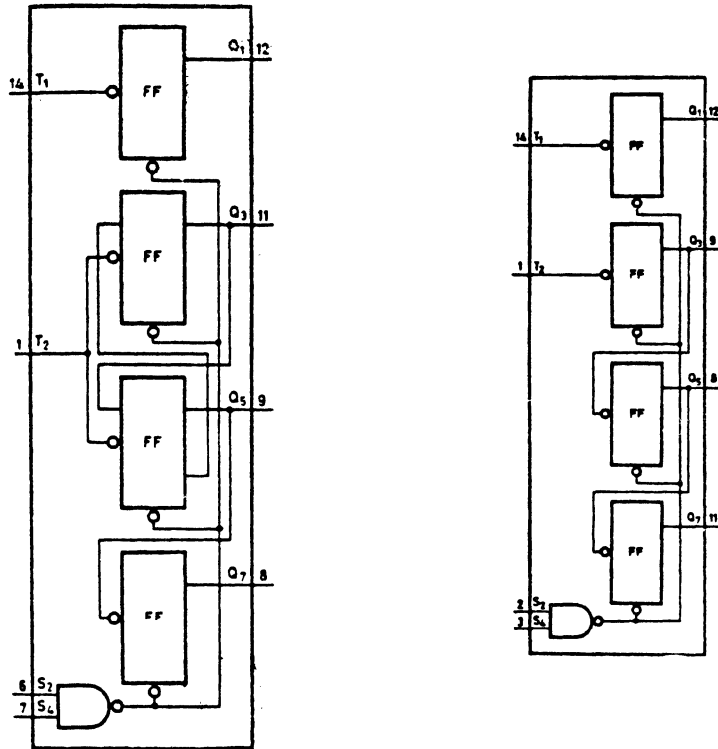
	C1	A	C2	1	C	1	2	3	4	11	VCC	GND
E02-53	14	12	1	9	8	11	2	3	5	10		
E02-53a	14	11	8	9	10	12	1	2	4	11		

E02-59

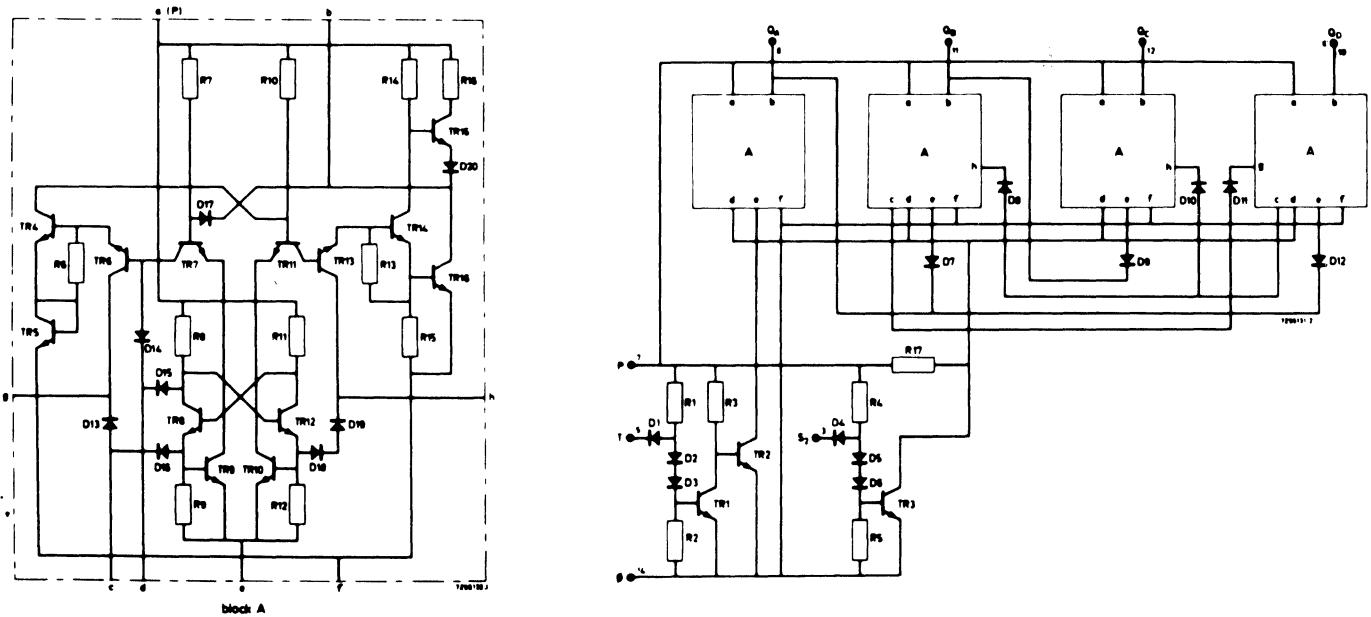


29. LOGIC/BLOCK DRAWINGS

E02-67

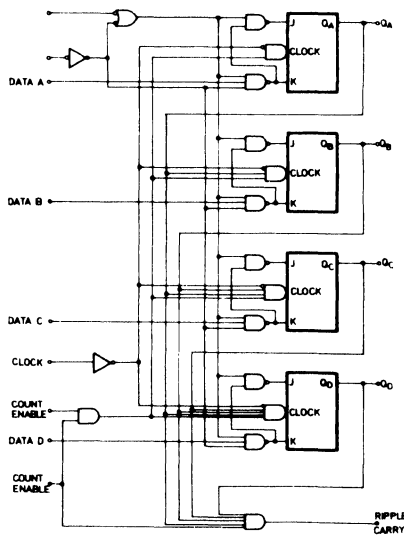


E02-69



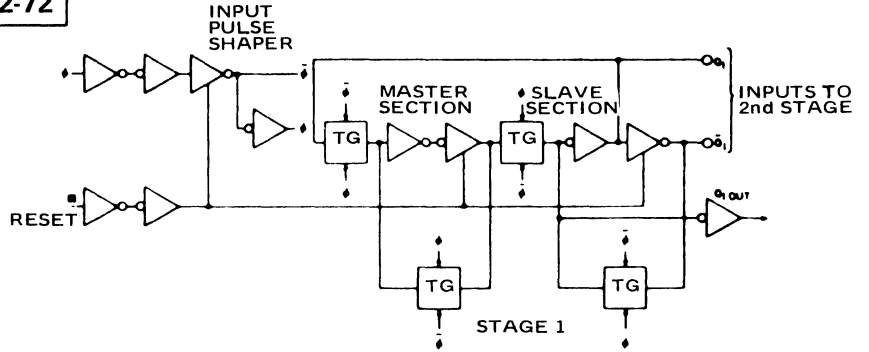
29. LOGIC/BLOCK DRAWINGS

E02-71



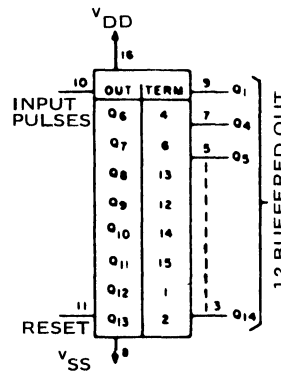
E0271a LOAD CLEAR SYNCHRONOUS
E0271b: SAME AS E0271a EXCEPT AS SYNCHRONOUS

E02-72

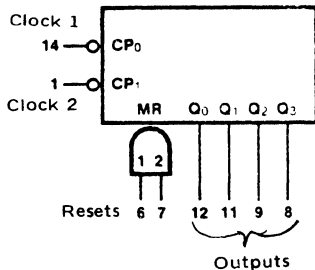


R=HIGH DOMINATES (RESETS ALL STAGES)

ACTION OCCURS ON NEGATIVE GOING TRANSITION OF INPUT PULSE. COUNTER ADVANCES ONE BINARY COUNT ON EACH NEGATIVE TRANSITION (16,384 TOTAL BINARY COUNTS)

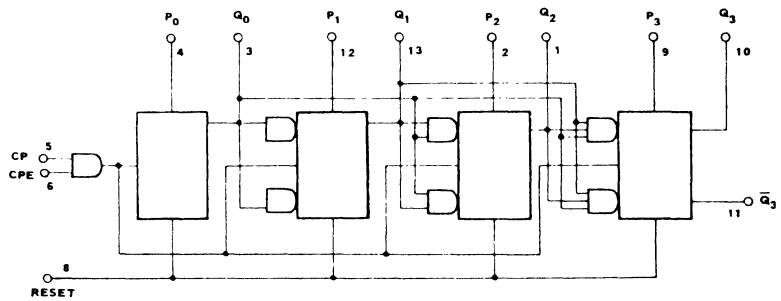


E02-79

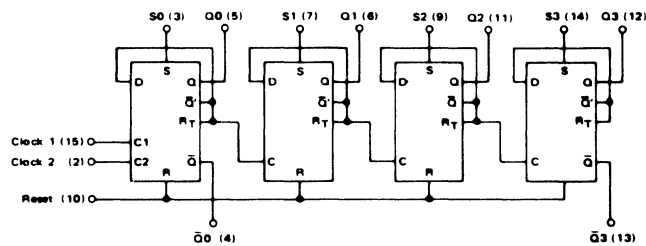


Vcc = Pin 5
GND = Pin 10
NC = Pins 2, 3, 4, 13

E02-83



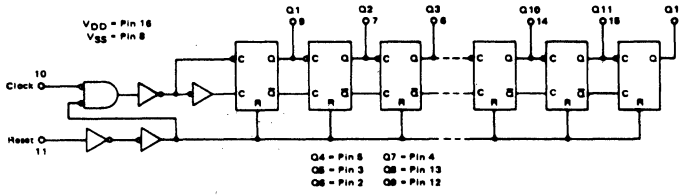
E02-88



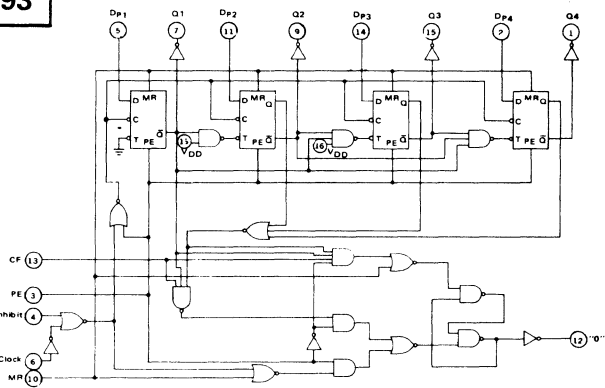
Vcc = 1, 16
VEE = 8

29. LOGIC/BLOCK DRAWINGS

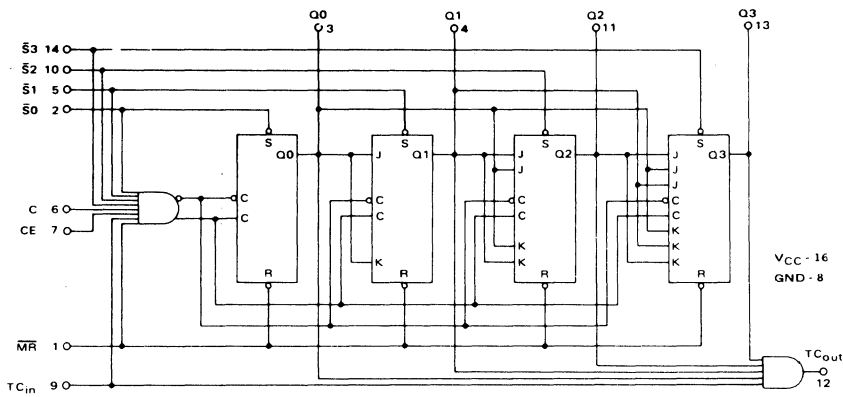
E02-91



E02-93

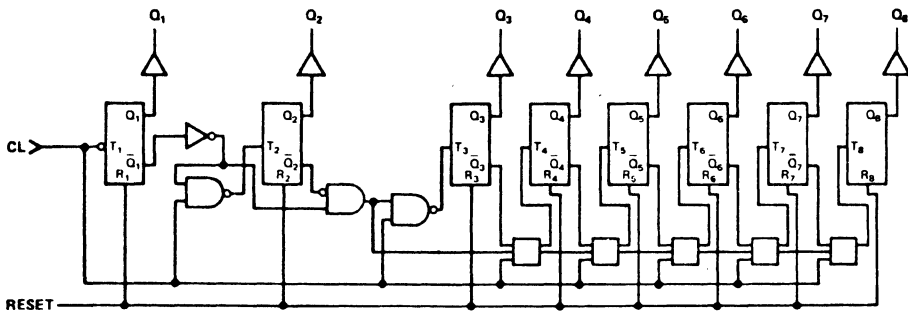


E02-94

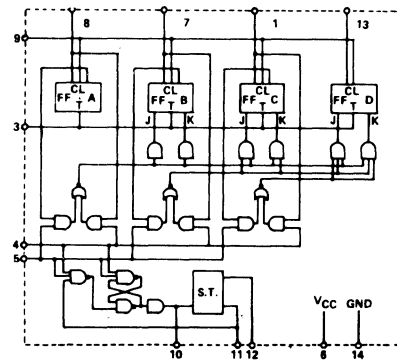


E02-97

PKG	CLOCK	RESET	Q								VSS	VDD	
			1	2	3	4	5	6	7	8			
E0297	MO	1	2	12	11	9	6	5	4	3	13	7	14
	TO	1	3	11	10	9	7	6	5	4		12	2

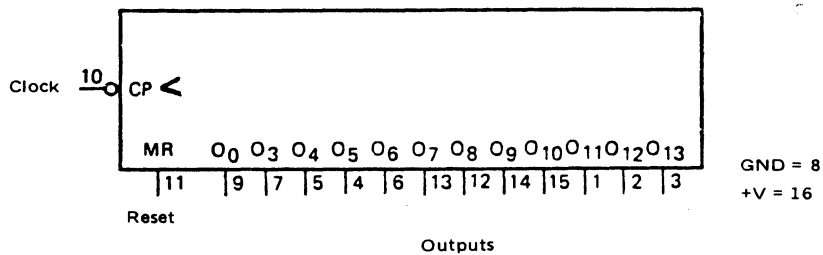


E02-100



E02-103

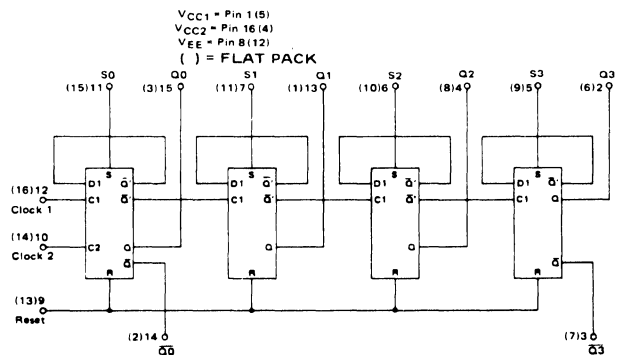
NOTE: E02-103 - Synchronous reset
E02-103a - Asynchronous reset



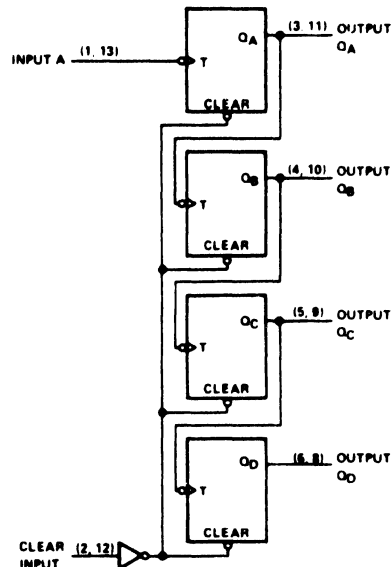
NOTE: Q1 & Q2 outputs are not available externally.

29. LOGIC/BLOCK DRAWINGS

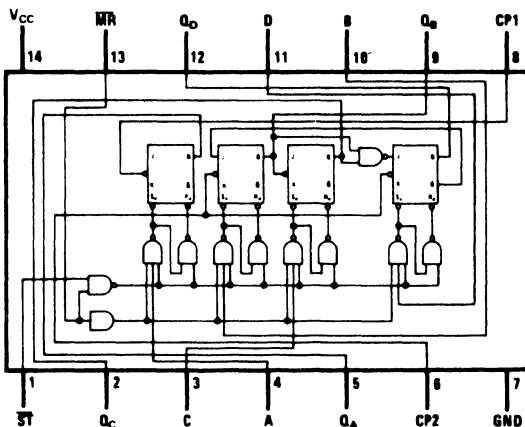
E02-104



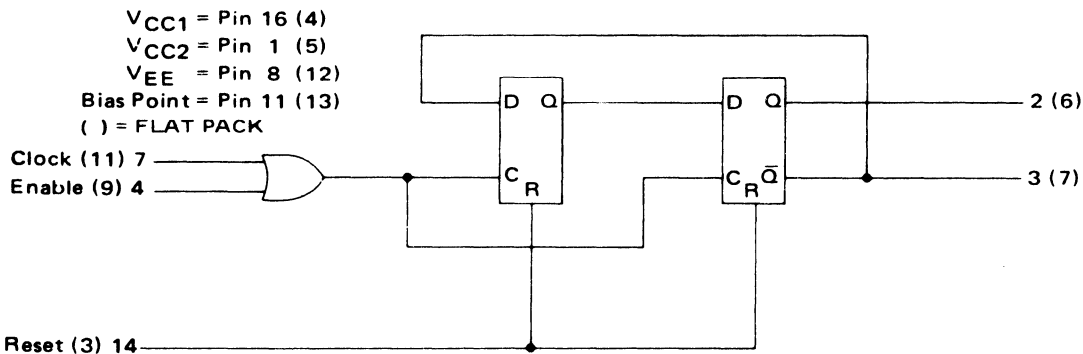
E02-107



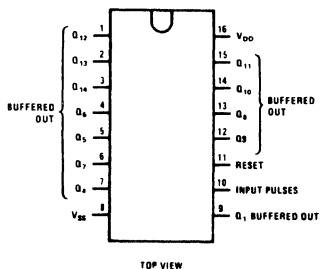
E02-110



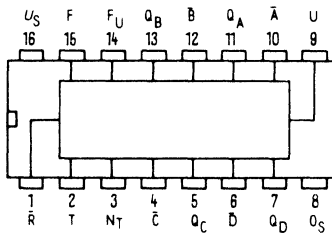
E02-116



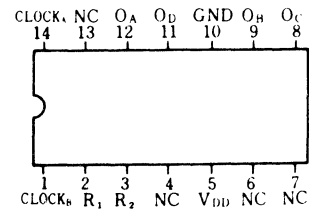
E02-119



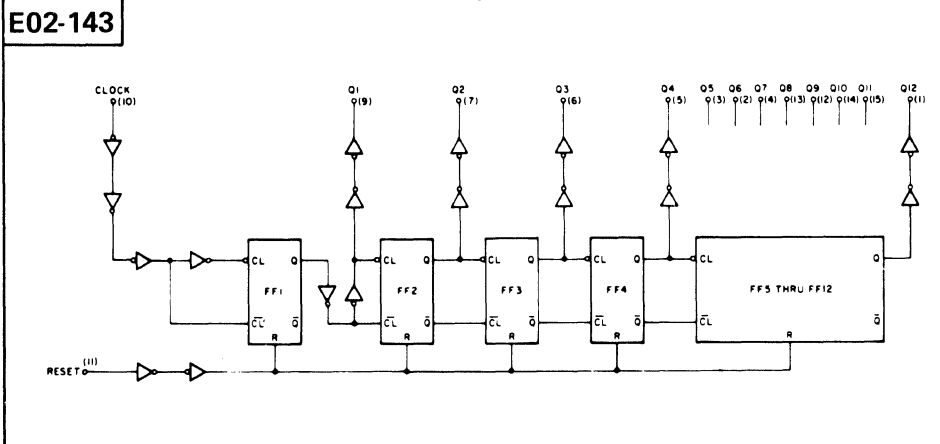
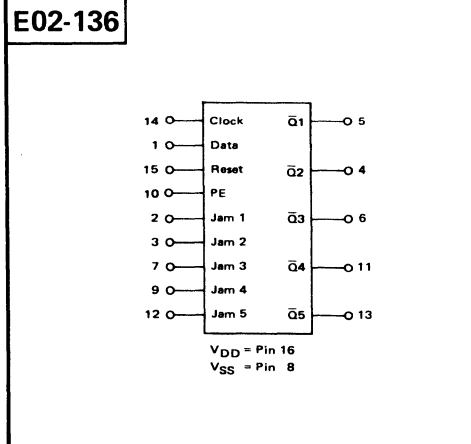
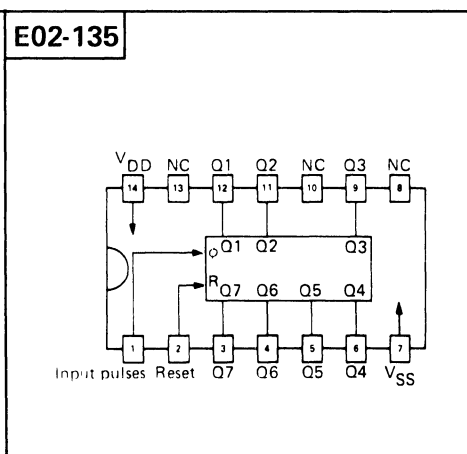
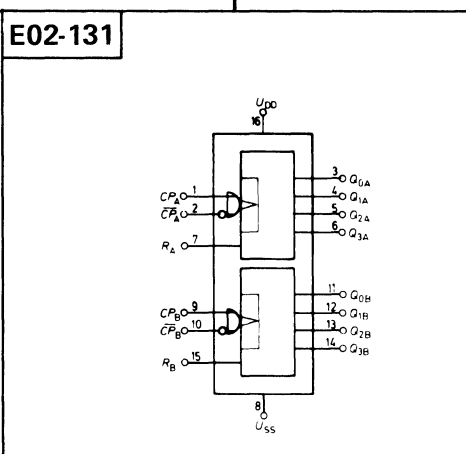
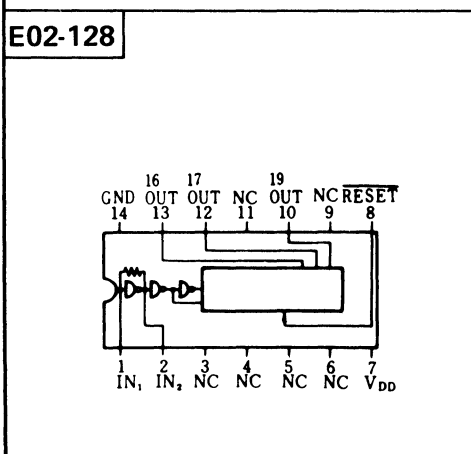
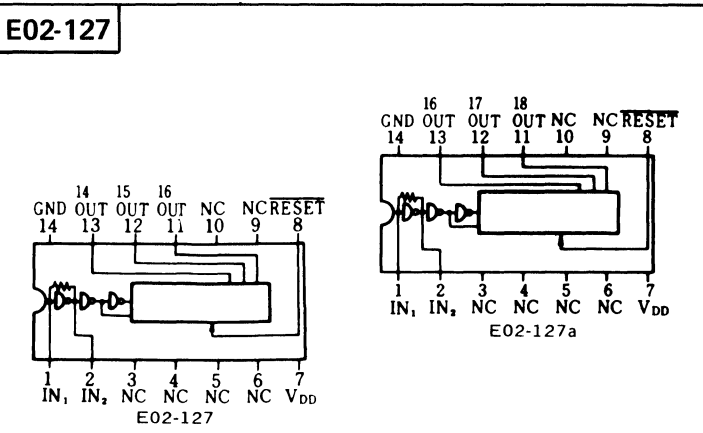
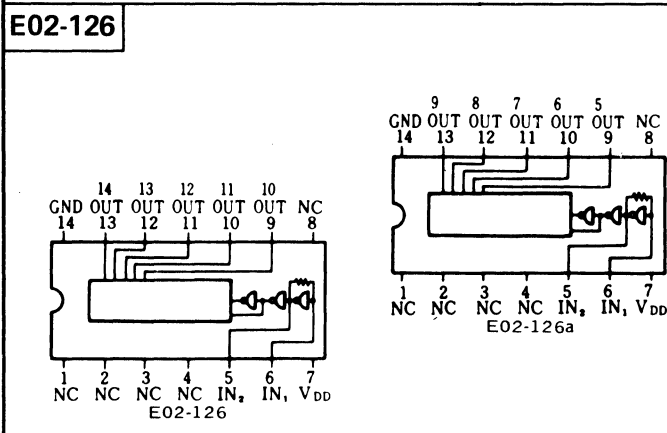
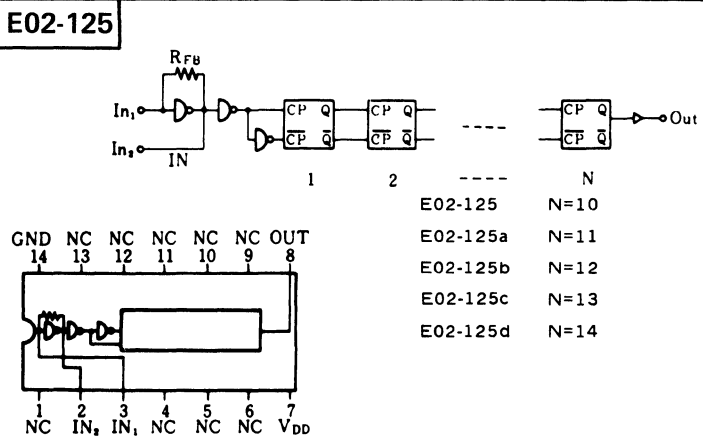
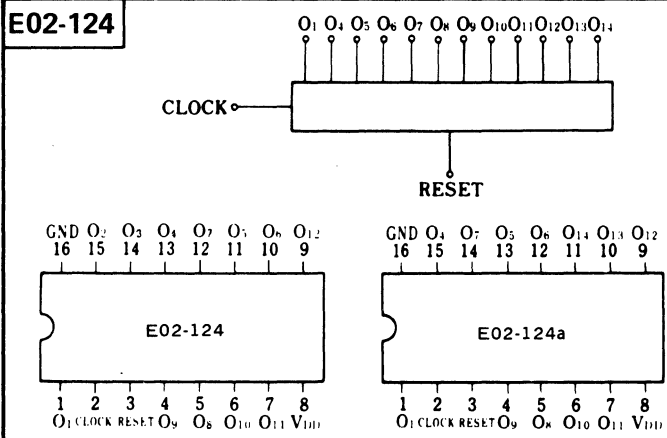
E02-122



E02-123

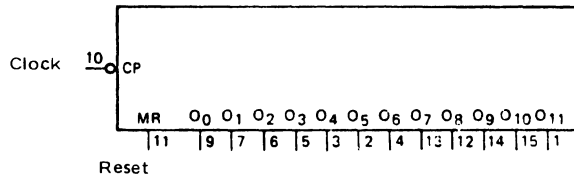


29. LOGIC/BLOCK DRAWINGS



29. LOGIC/BLOCK DRAWINGS

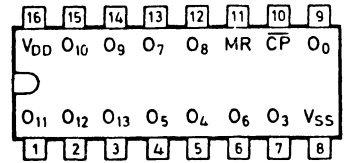
E02-152



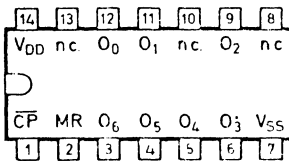
GND = 8
+V = 16

NOTE: E02-152 - Synchronous reset
E02-152a - Asynchronous reset

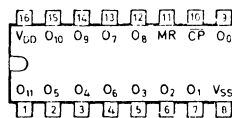
E02-153



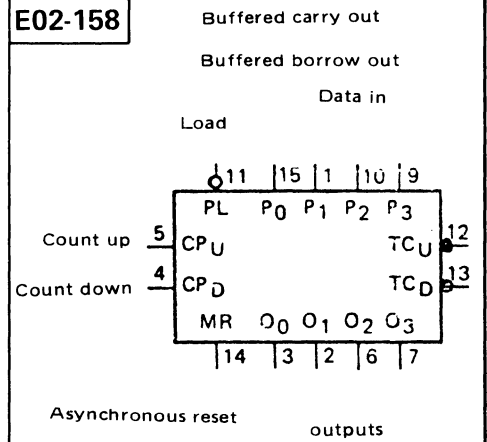
E02-154



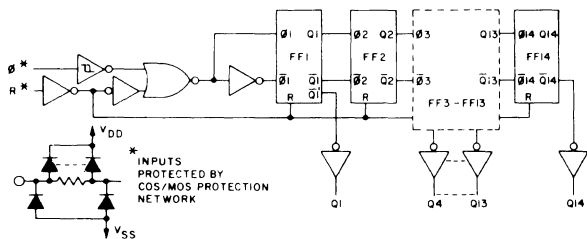
E02-155



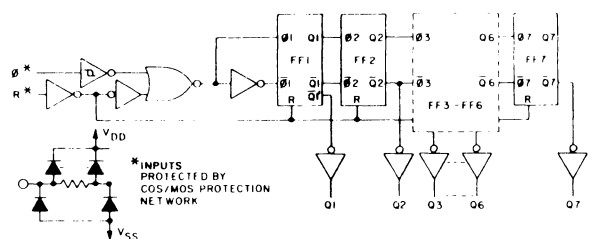
E02-158



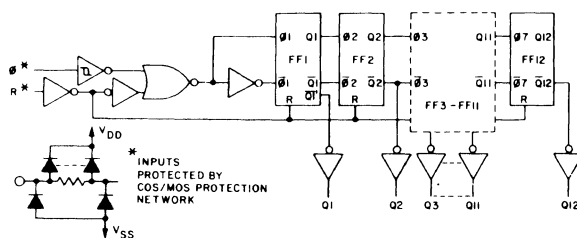
E02-159



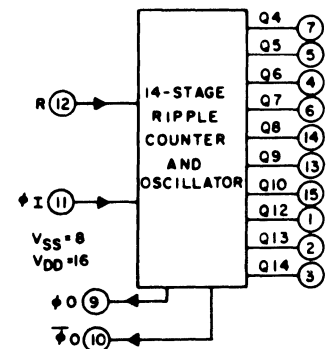
E02-160



E02-161

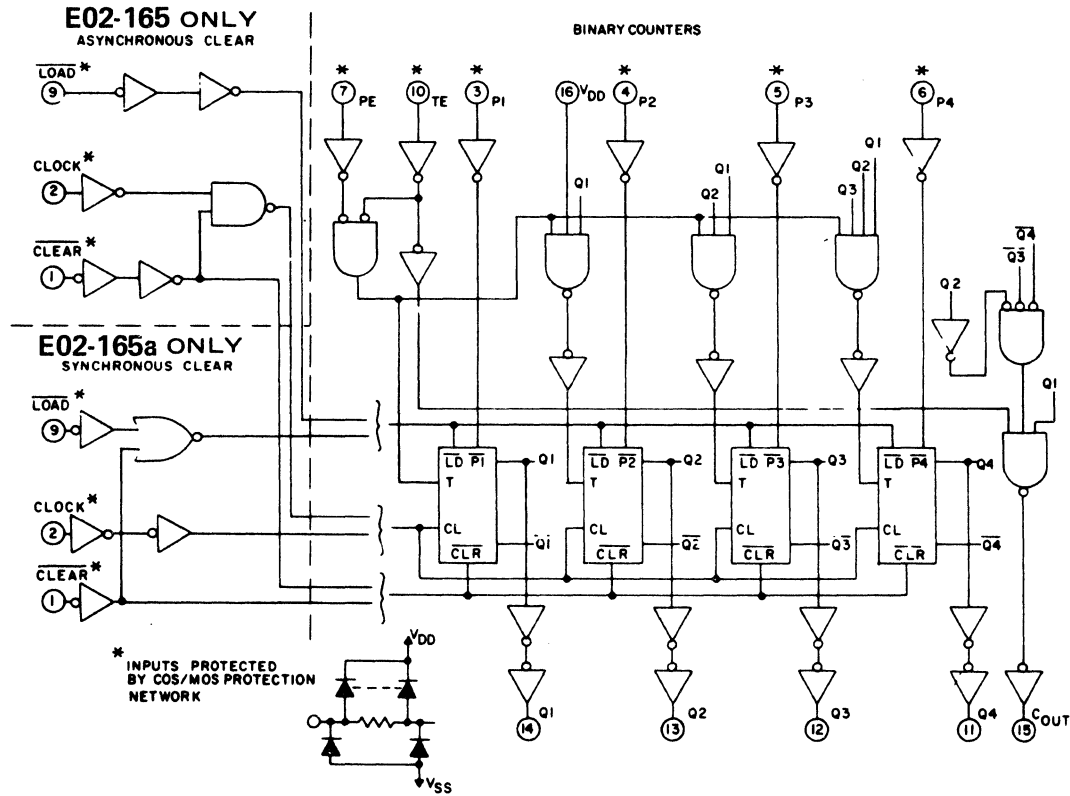


E02-163

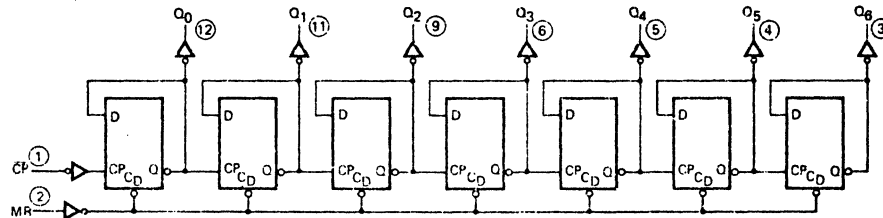


29. LOGIC/BLOCK DRAWINGS

E02-165

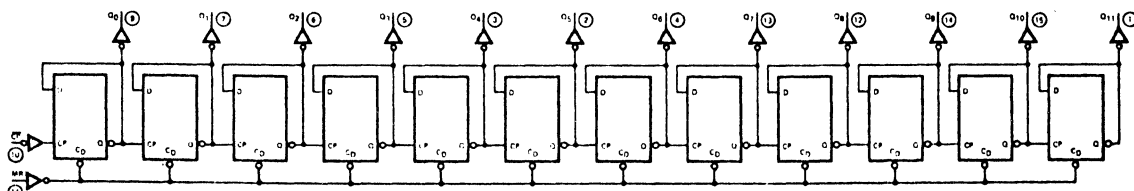


E02-166



V_{DD} = Pin 14
V_{SS} = Pin 7
NC = Pins 8, 10 and 13
○ = Pin Number

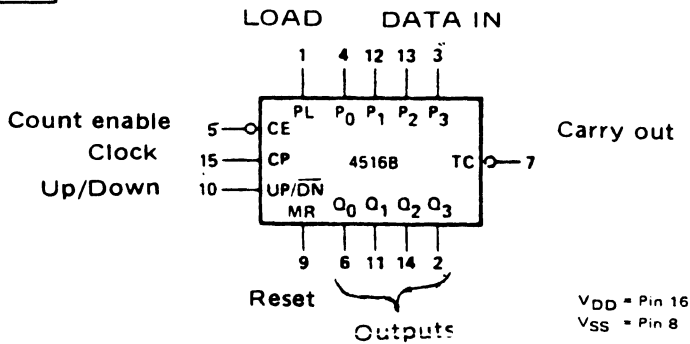
E02-167



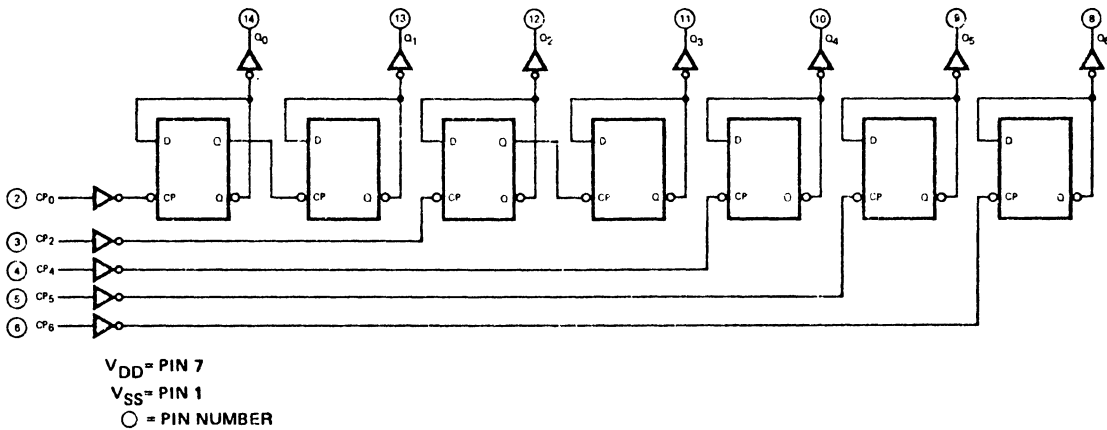
V_{DD} = Pin 16
V_{SS} = Pin 8
○ = Pin Numbers

29. LOGIC/BLOCK DRAWINGS

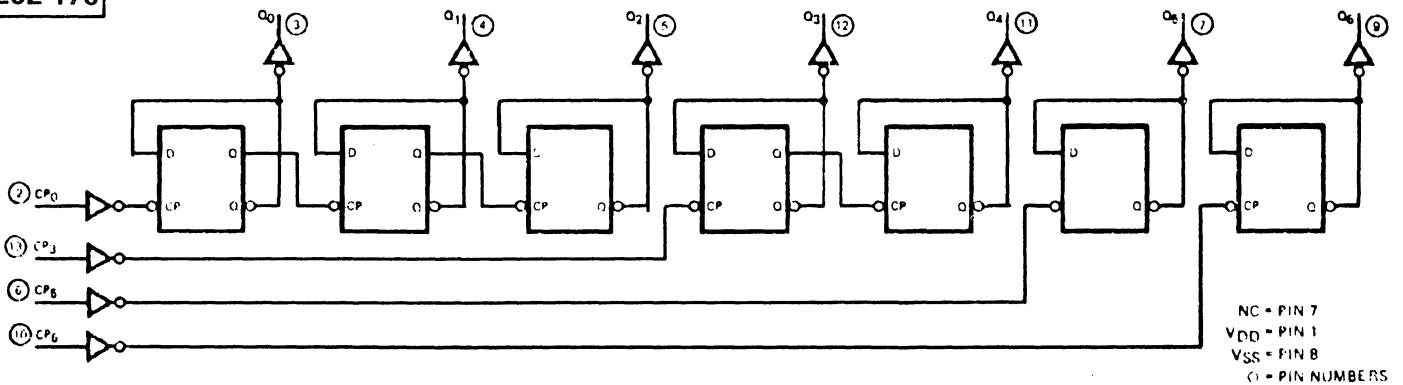
E02-168



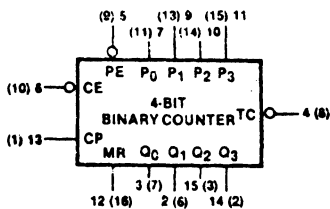
E02-169



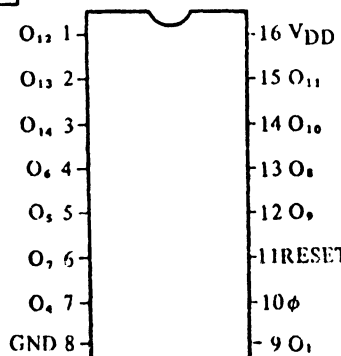
E02-170



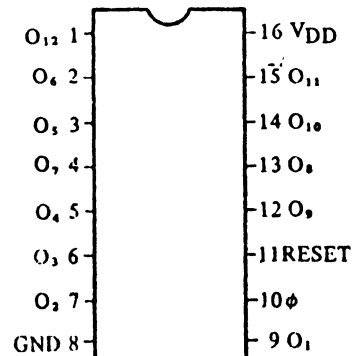
E02-173



E02-175



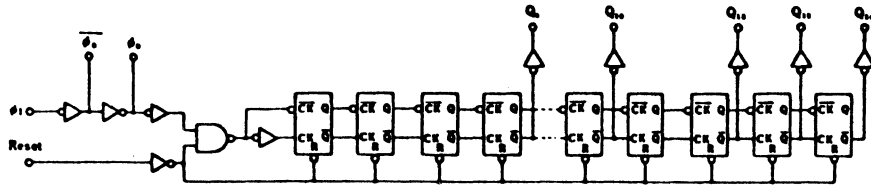
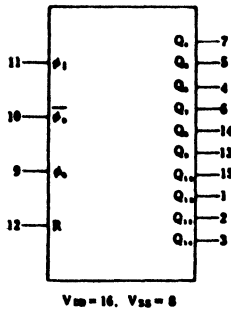
E02-175



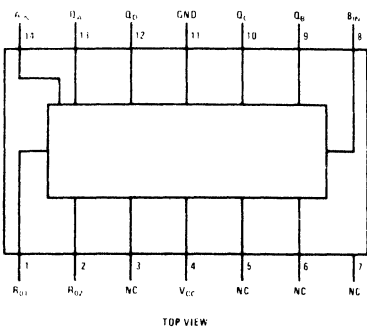
E02-175a

29. LOGIC/BLOCK DRAWINGS

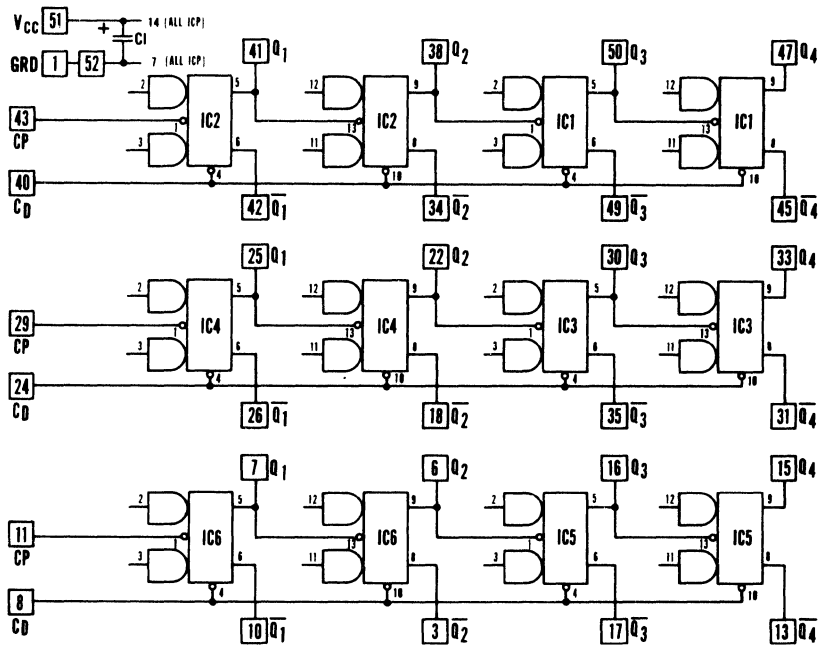
E02-181



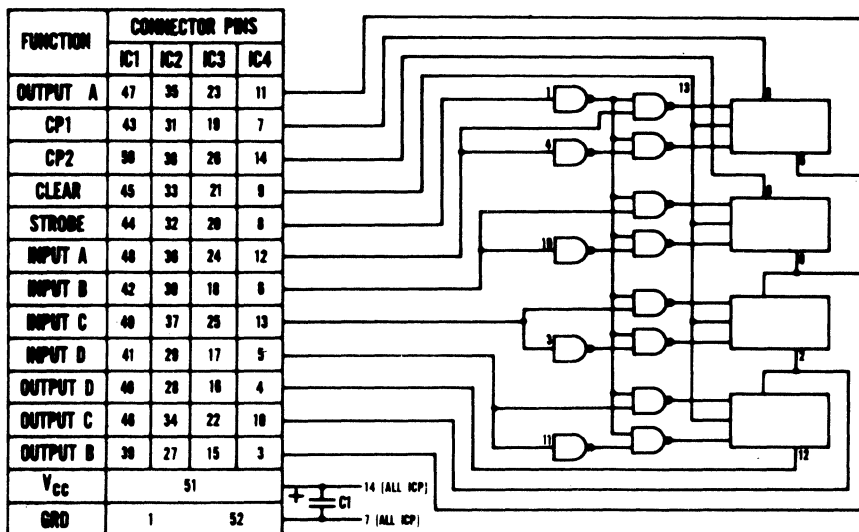
E02-182



E02-183

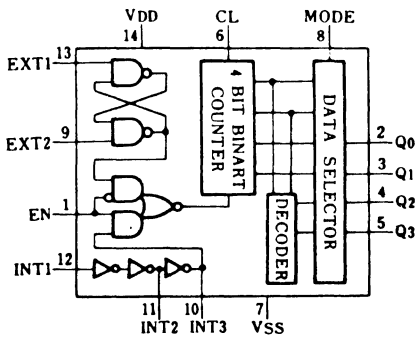


E02-184

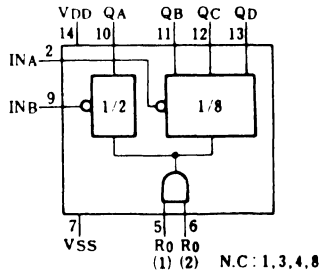


29. LOGIC/BLOCK DRAWINGS

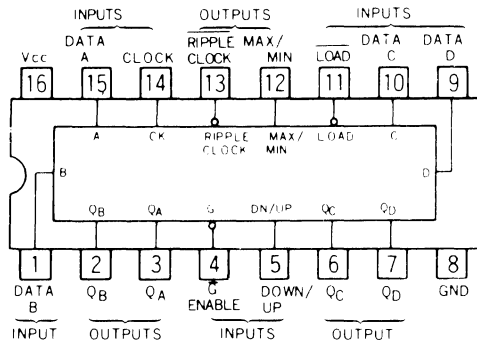
E02-185



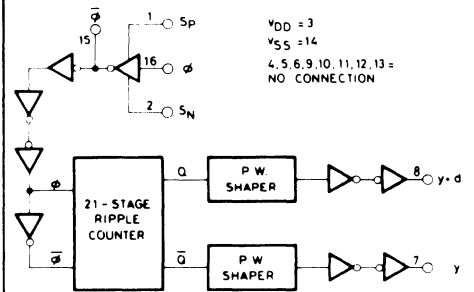
E02-186



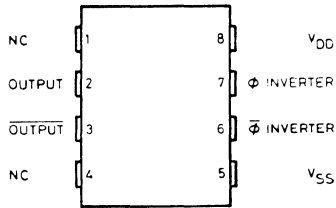
E02-187



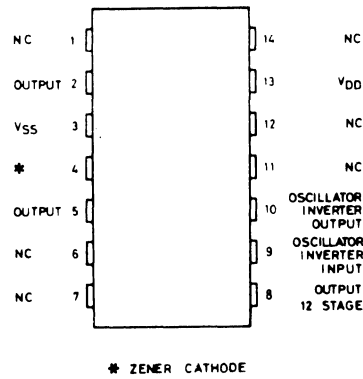
E02-189



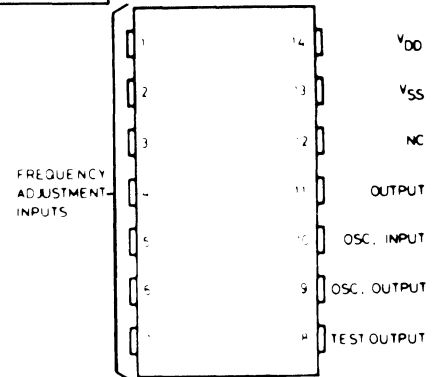
E02-190



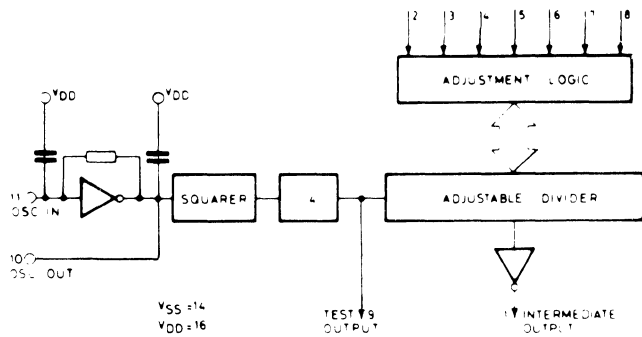
E02-191



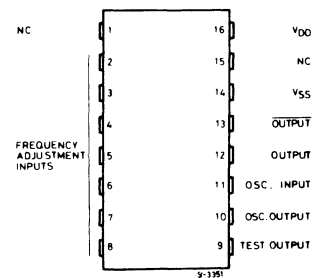
E02-192



E02-194

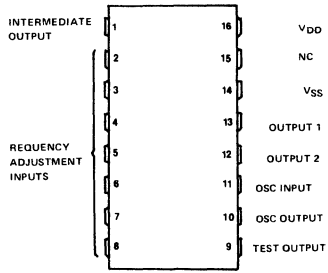


E02-195

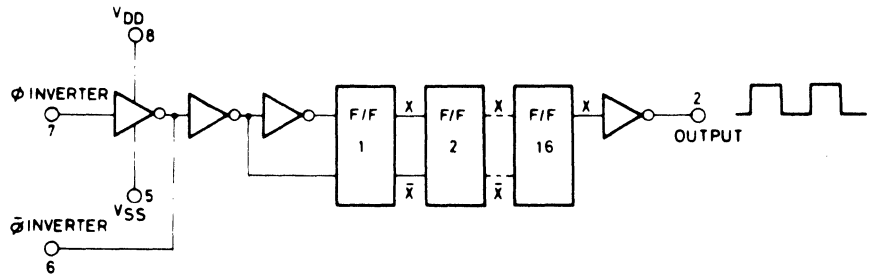


29. LOGIC/BLOCK DRAWINGS

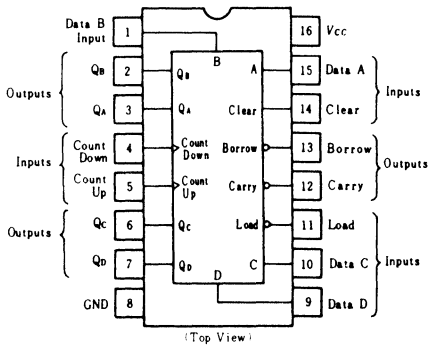
E02-196



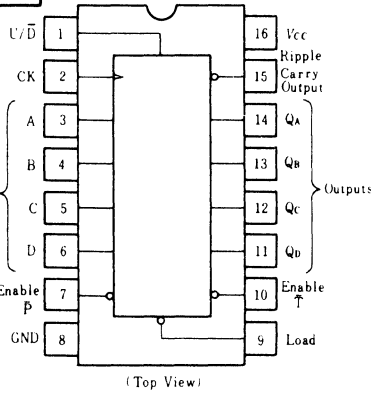
E02-197



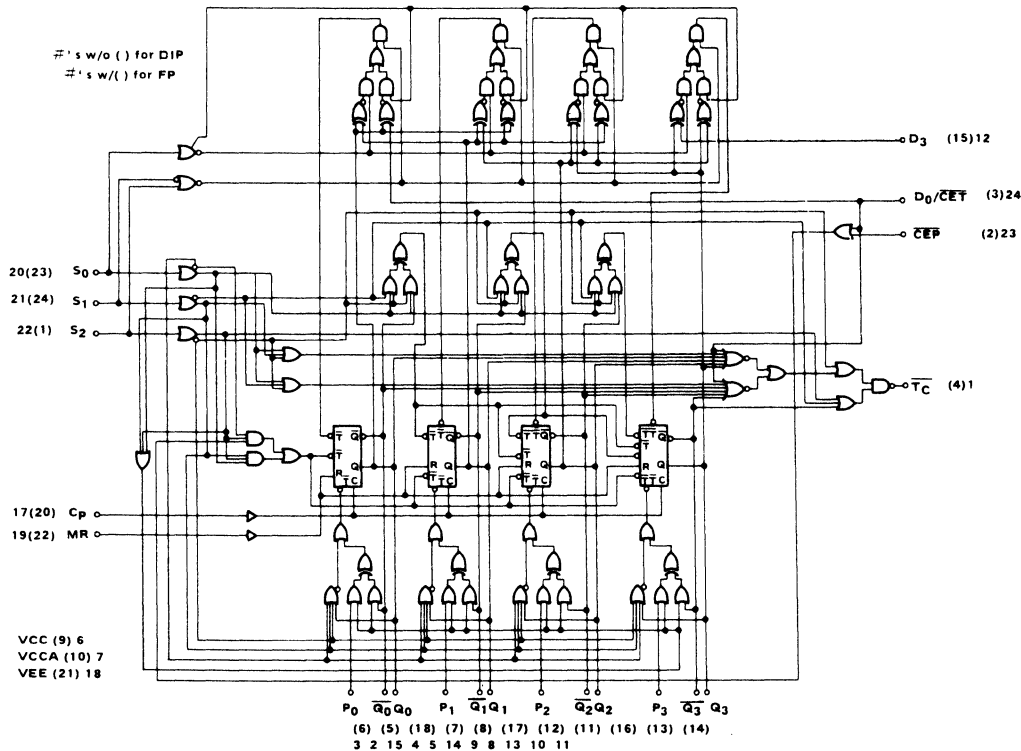
E02-198



E02-199

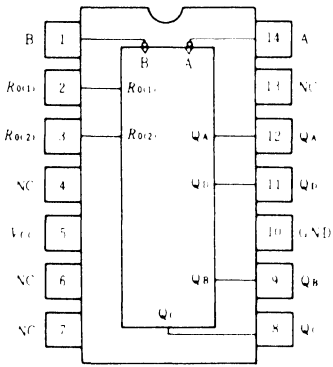


E02-200

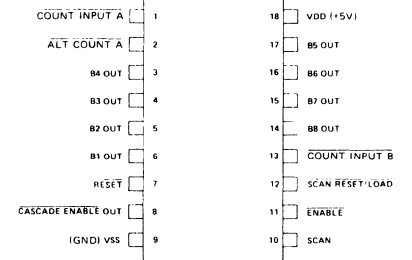


29. LOGIC/BLOCK DRAWINGS

E02-201

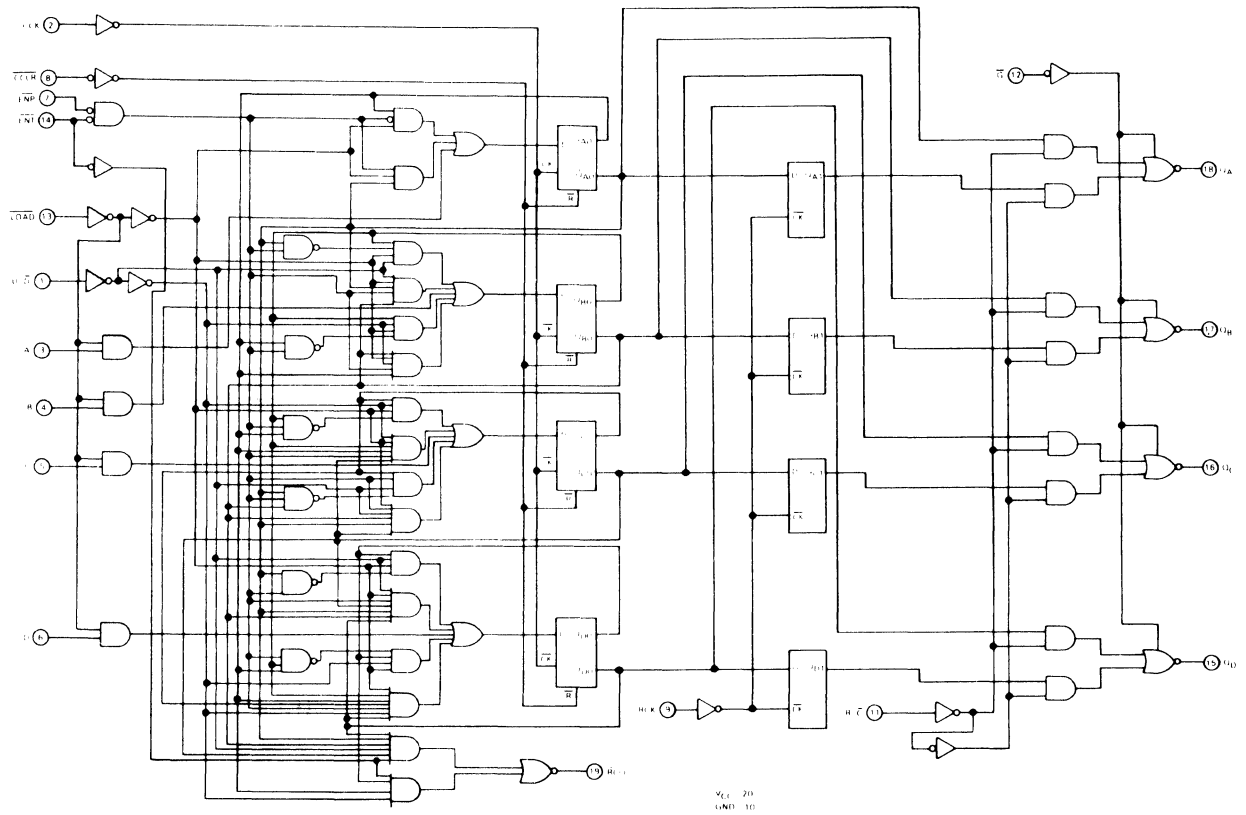


E02-202

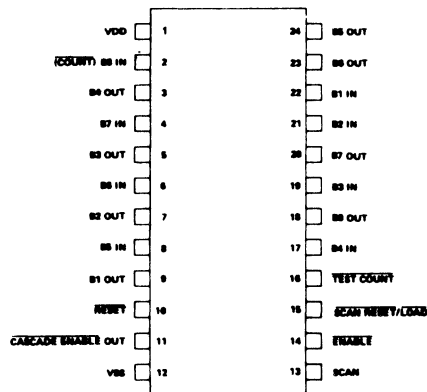


E02-203

E02-203a

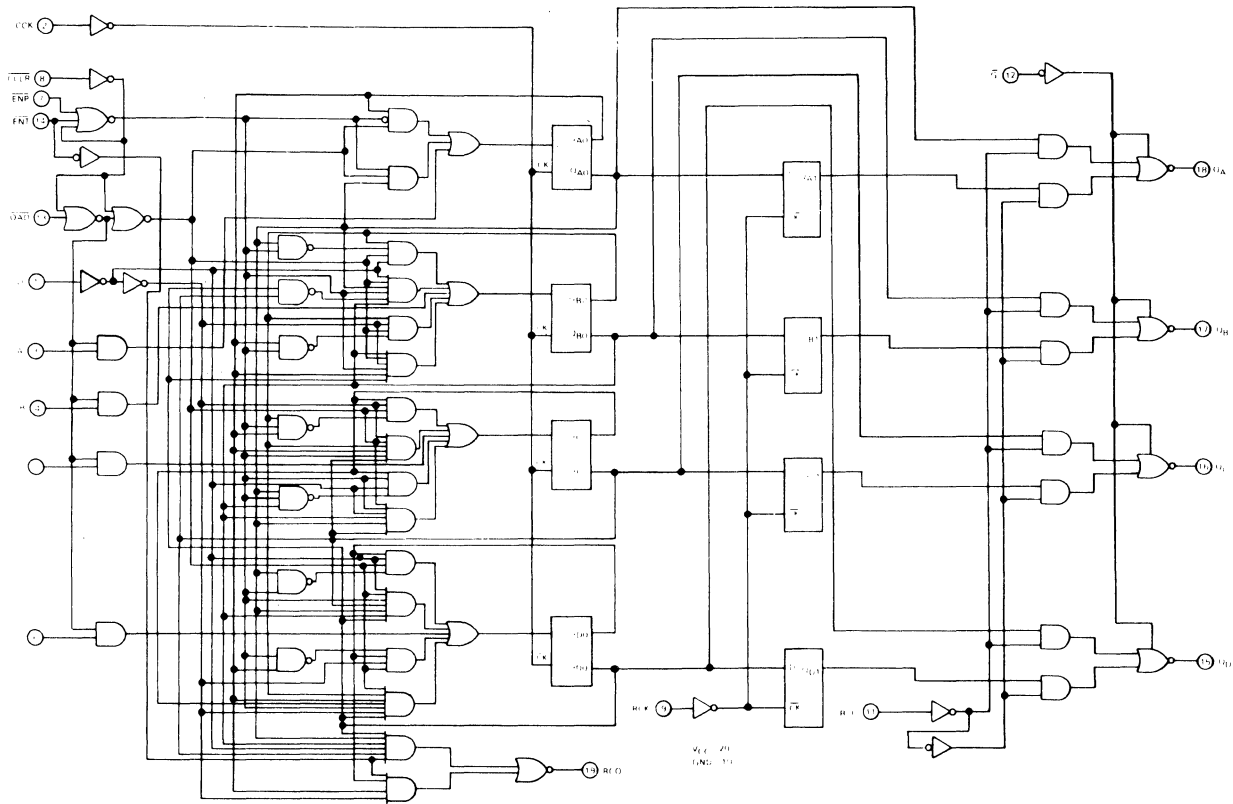


E02-203a

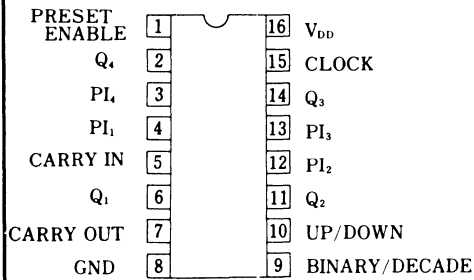


29. LOGIC/BLOCK DRAWINGS

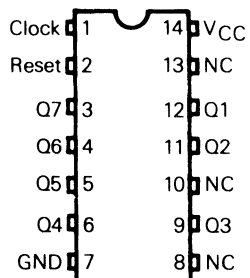
E02-204



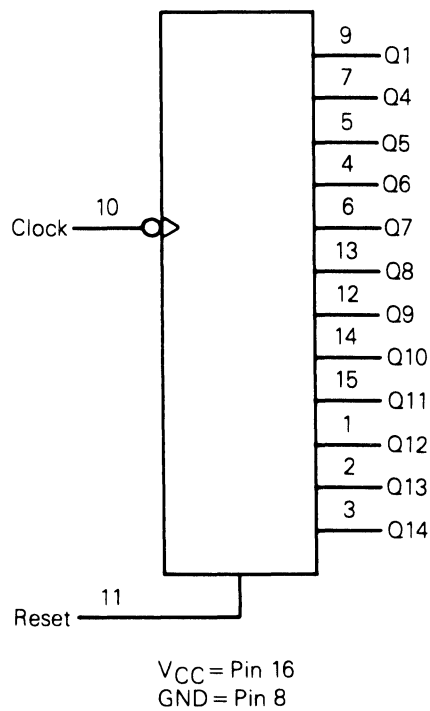
E02-205



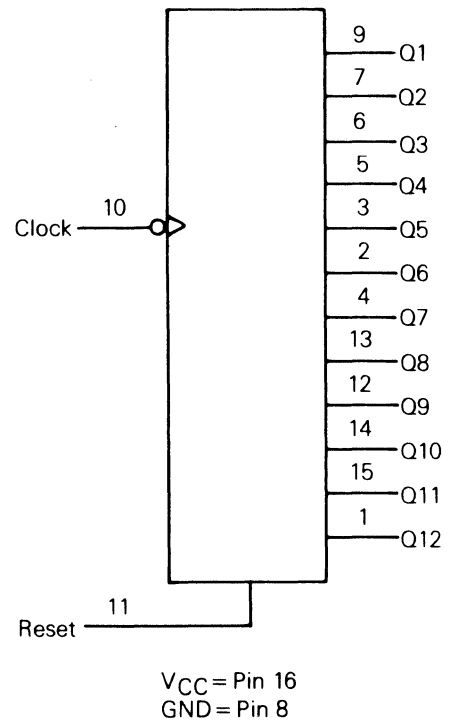
E02-206



E02-207



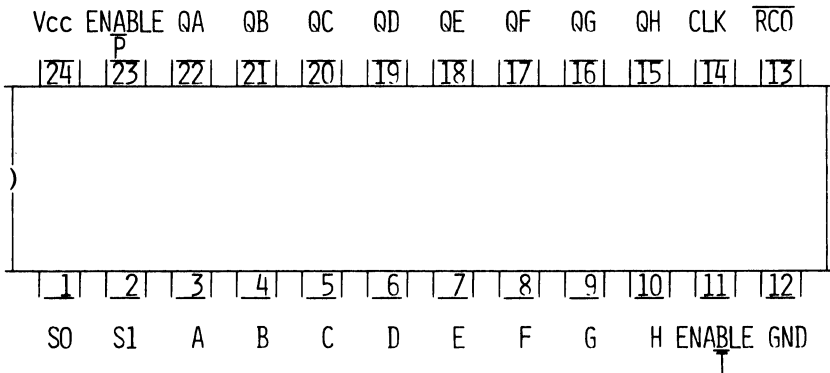
E02-208



29. LOGIC/BLOCK DRAWINGS

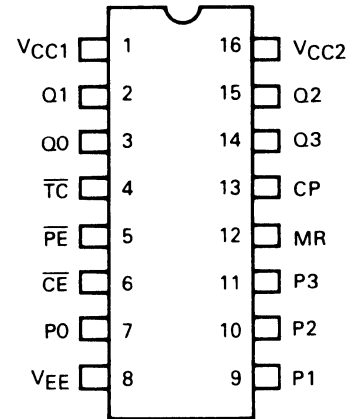
E02-209

JT OR NT PACKAGE

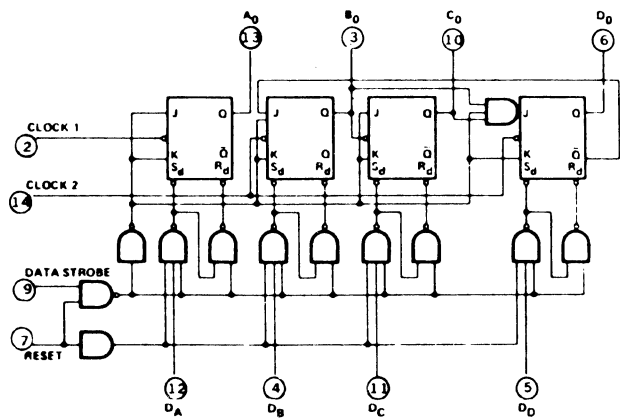


E02-210

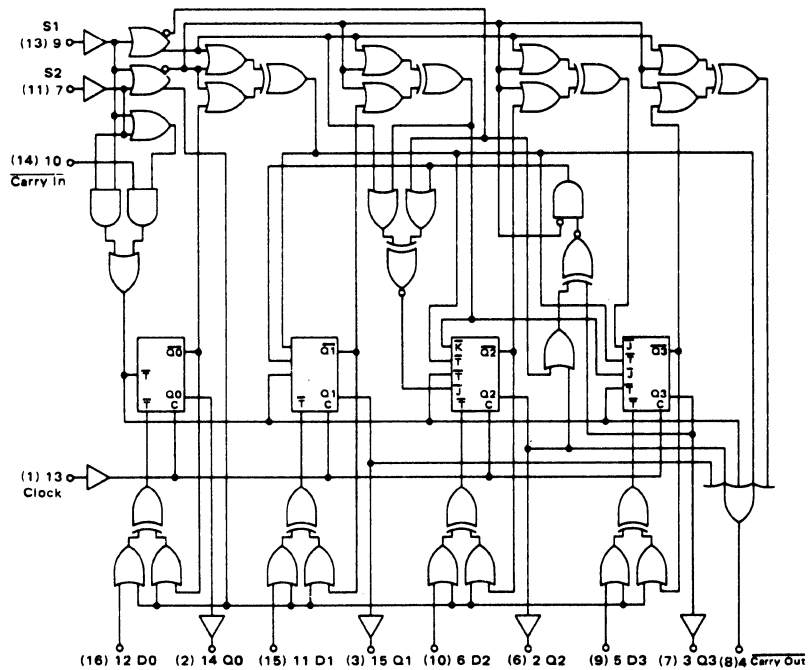
4-Bit Binary Counter



E03-26



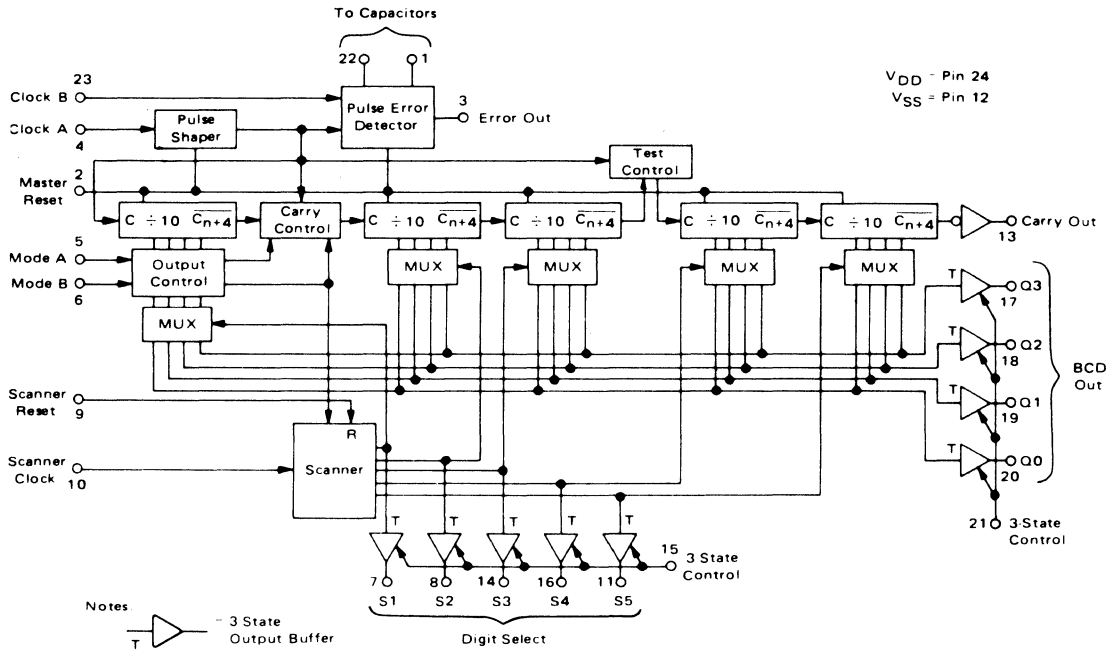
E03-35



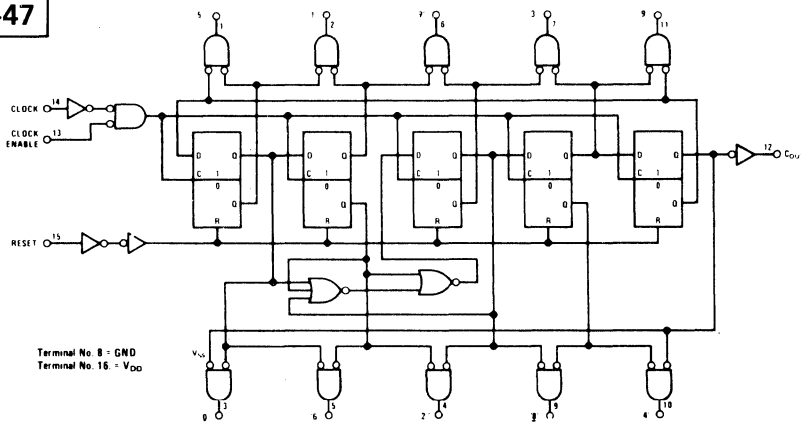
VCC1 = Pin 1 (5)
 VCC2 = Pin 16 (4)
 VEE = Pin 8 (12)
 () = FLAT PACK

29. LOGIC/BLOCK DRAWINGS

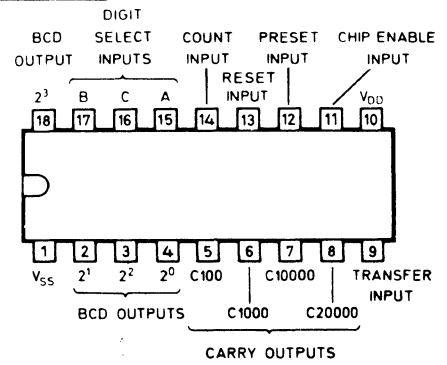
E03-39



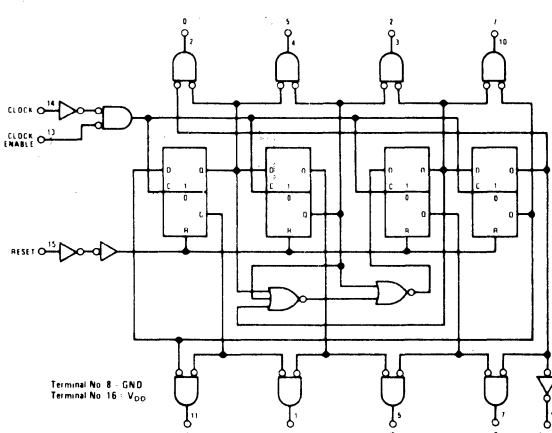
E03-47



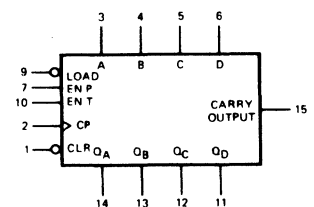
E03-50



E03-48



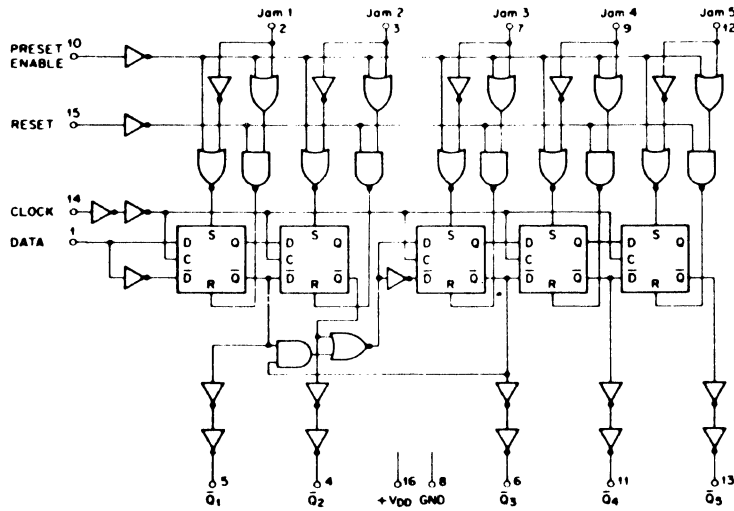
E03-53



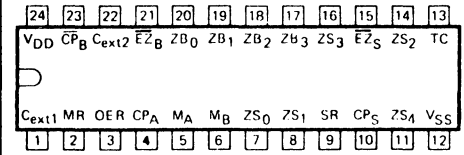
CLEAR IS SYNCHRONOUS

29. LOGIC/BLOCK DRAWINGS

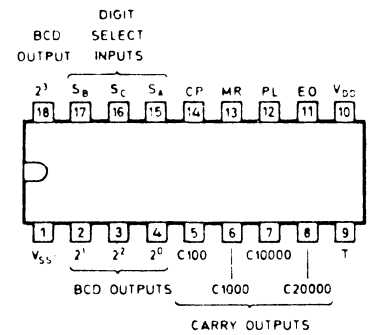
E03-56



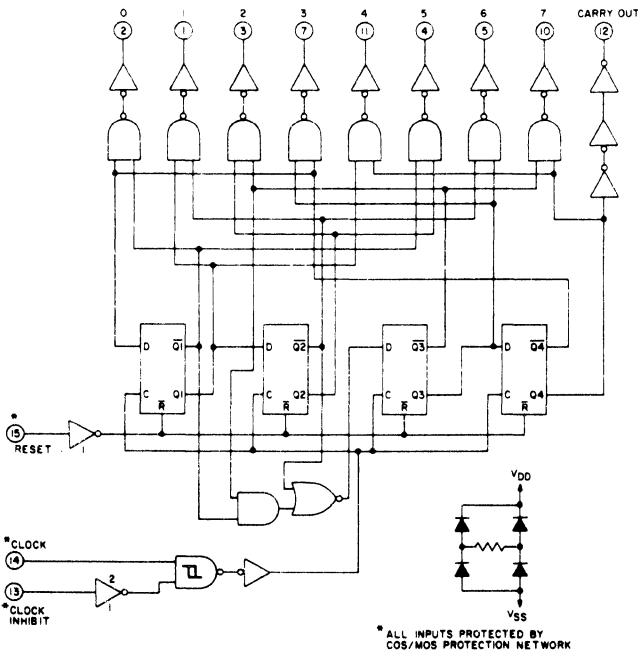
E03-58



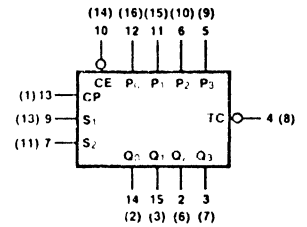
E03-59



E03-64

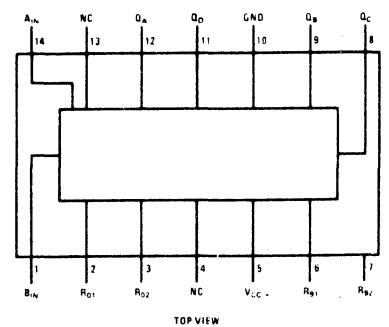


E03-67



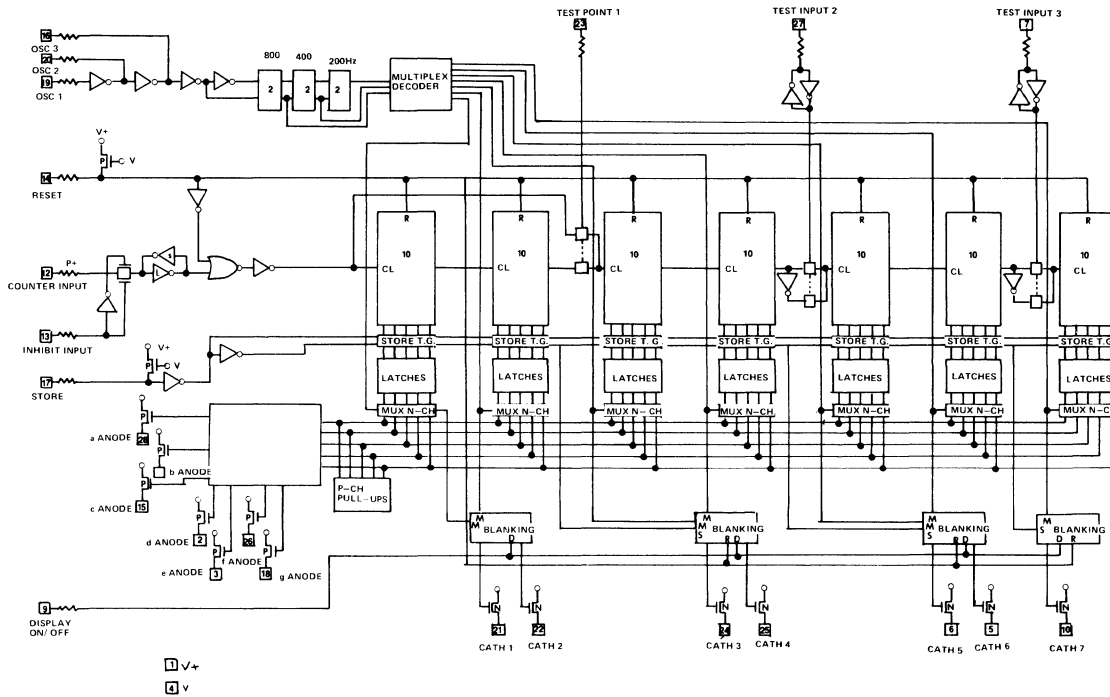
V_{CC1} = Pin 1 (5)
V_{CC2} = Pin 16 (4)
V_{EE} = Pin 8 (12)
() = Flatpak

E03-68

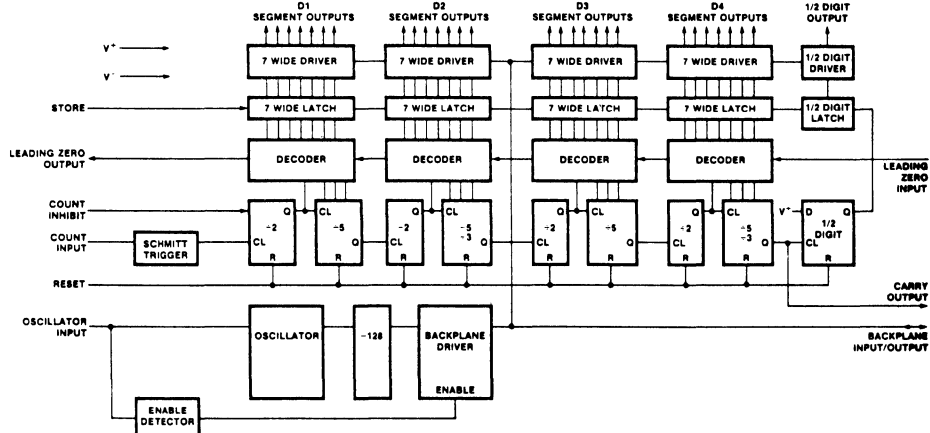


29. LOGIC/BLOCK DRAWINGS

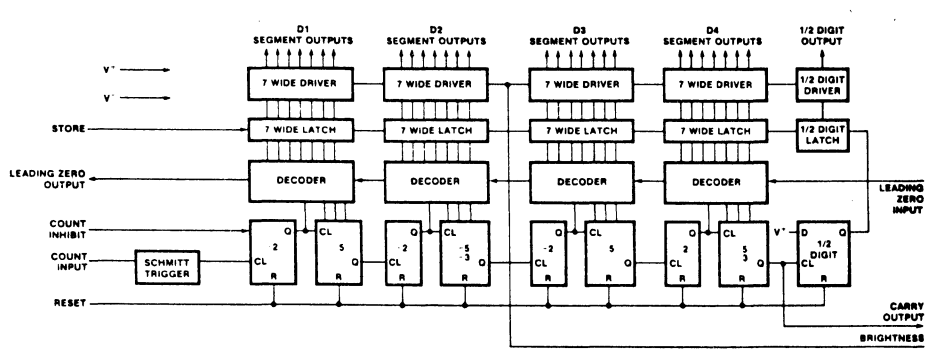
E03-72



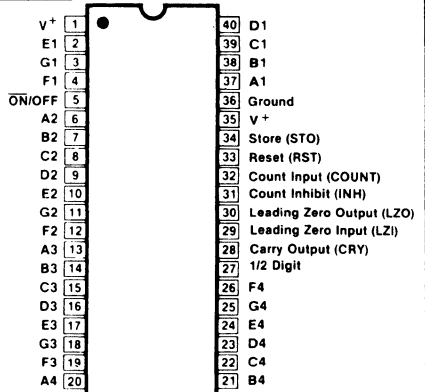
E03-73



E03-74

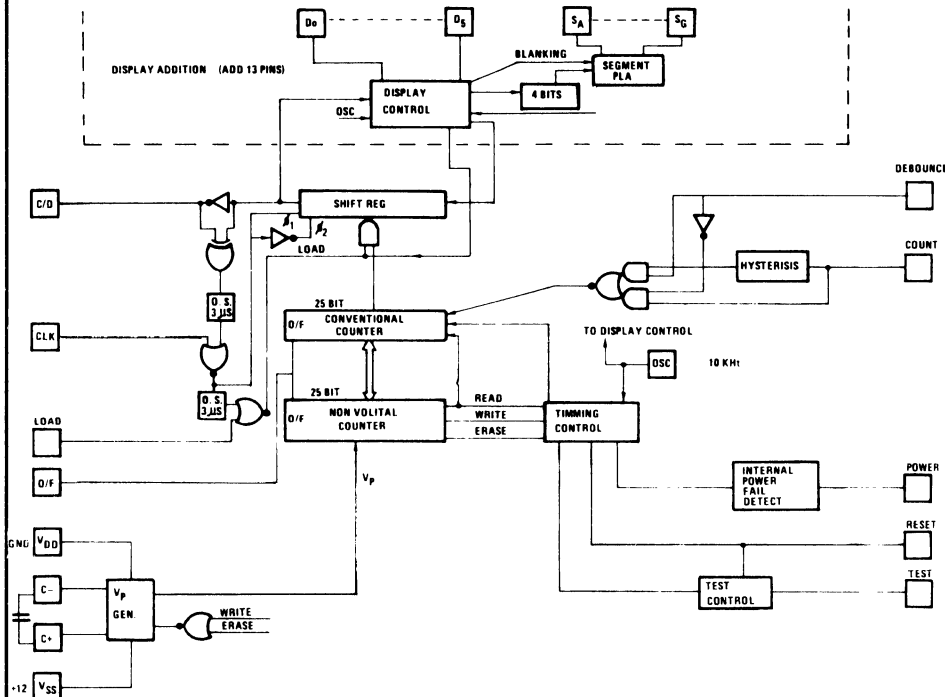


E03-75

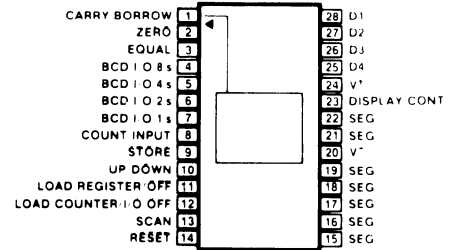


29. LOGIC/BLOCK DRAWINGS

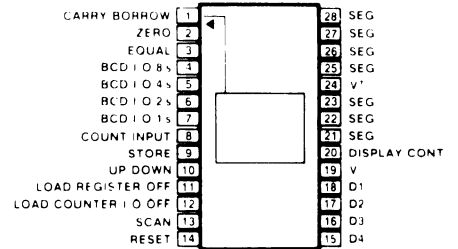
E03-76



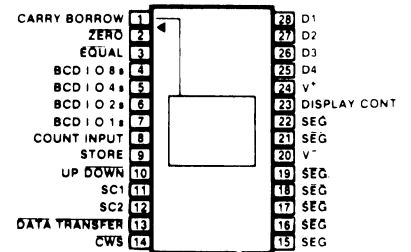
E03-77



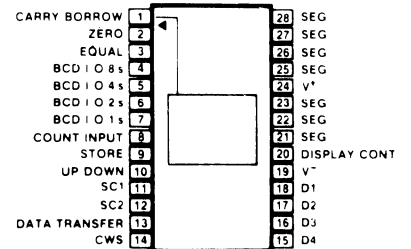
E03-77



E03-77a

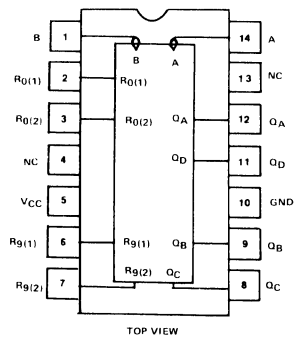


E03-77b

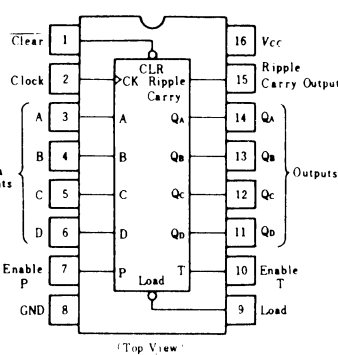


E03-77c

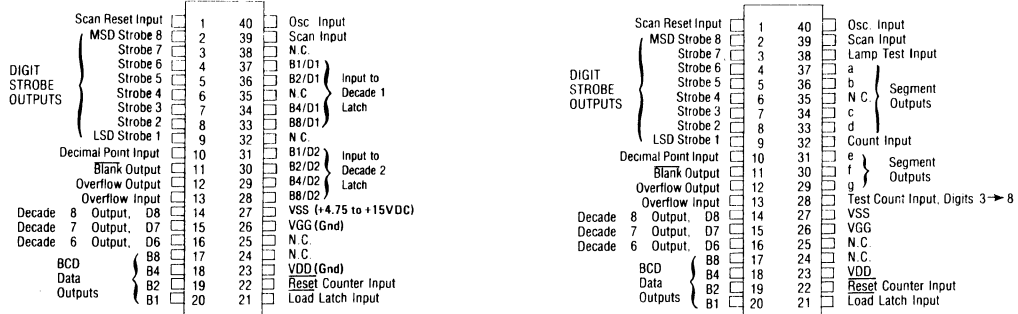
E03-79



E03-80

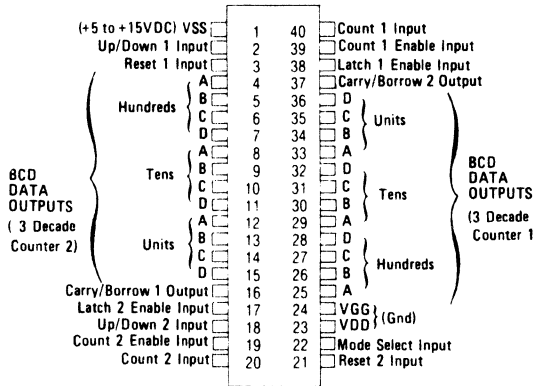


E03-82

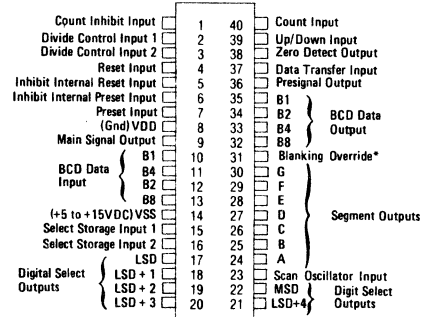


29. LOGIC/BLOCK DRAWINGS

E03-83

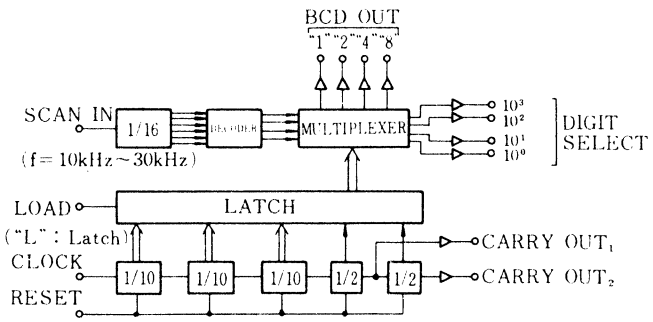


E03-84

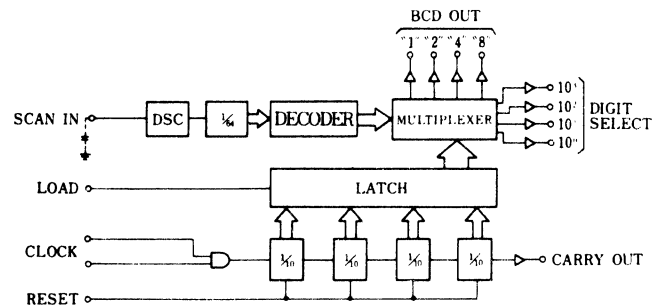


*Optional Choice - Lamp Test

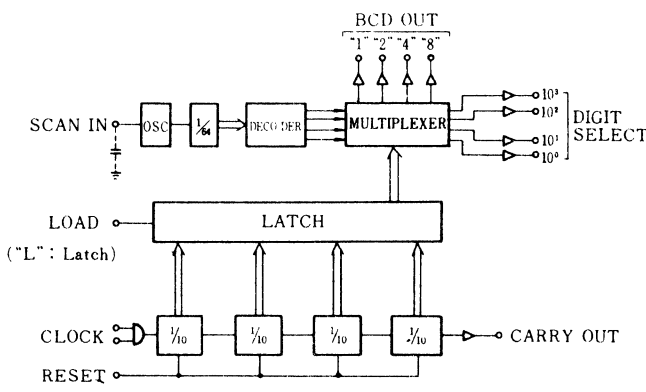
E03-85



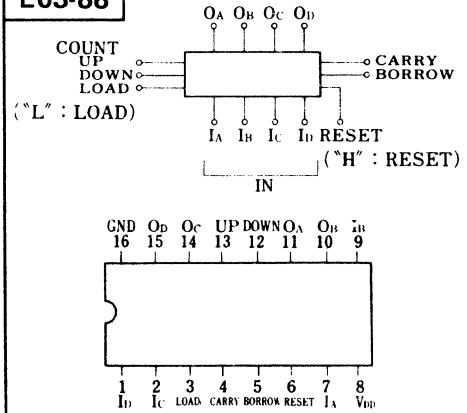
E03-86



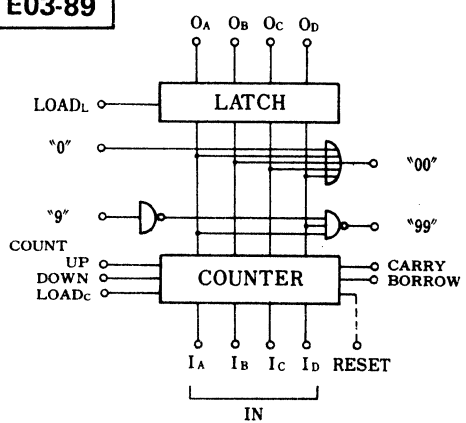
E03-87



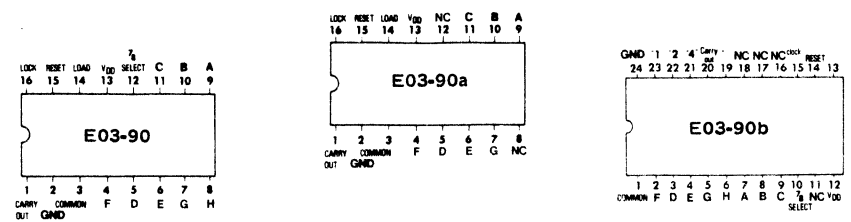
E03-88



E03-89

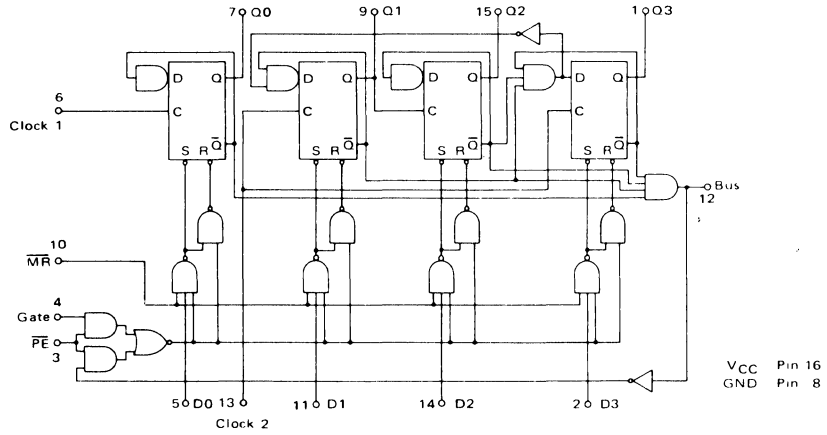


E03-90

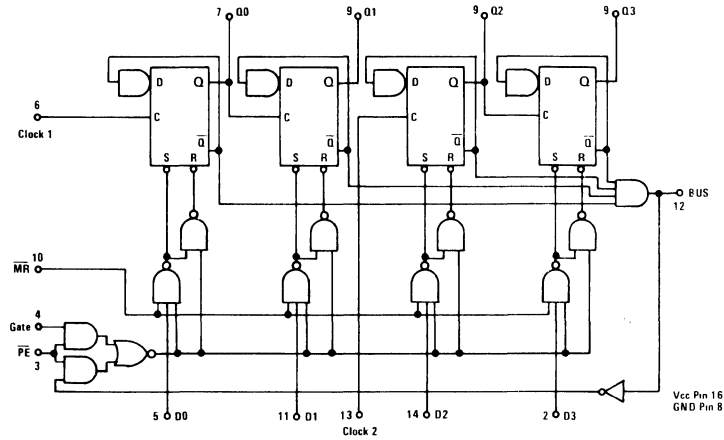


29. LOGIC/BLOCK DRAWINGS

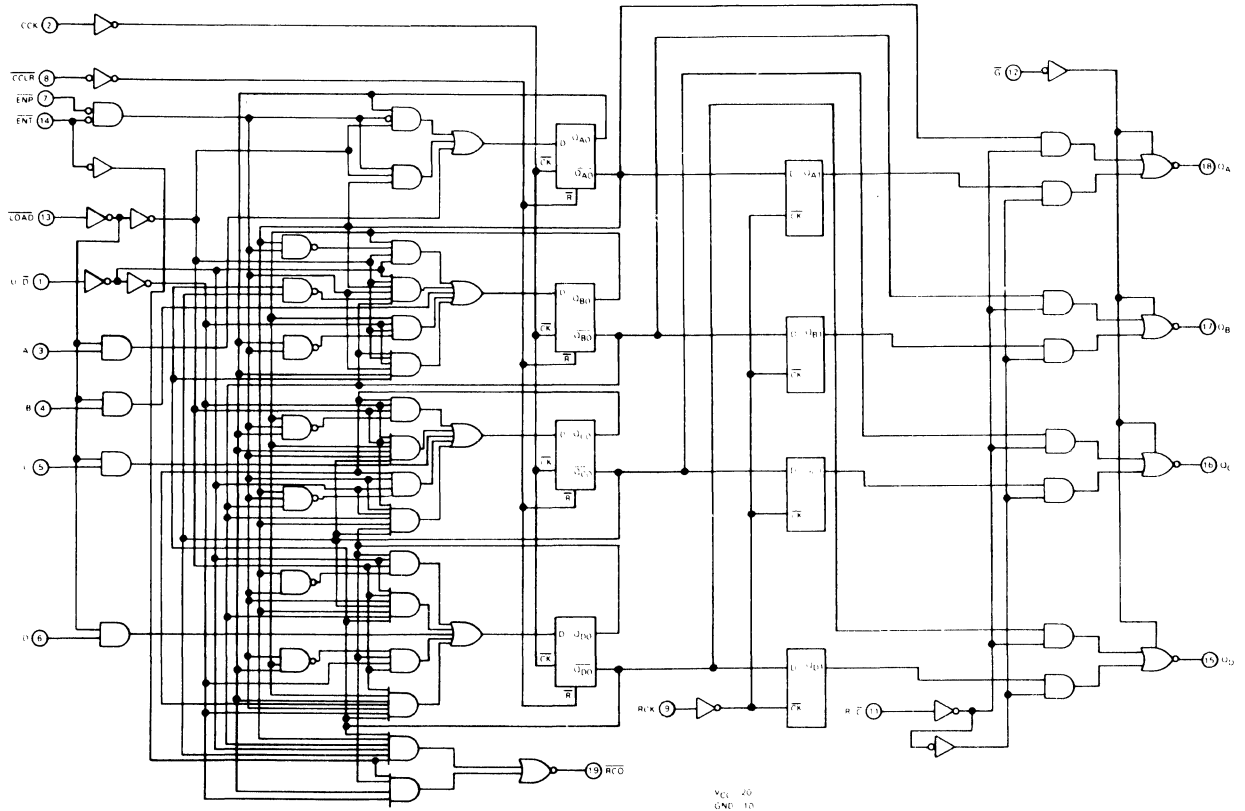
E03-91



E03-92

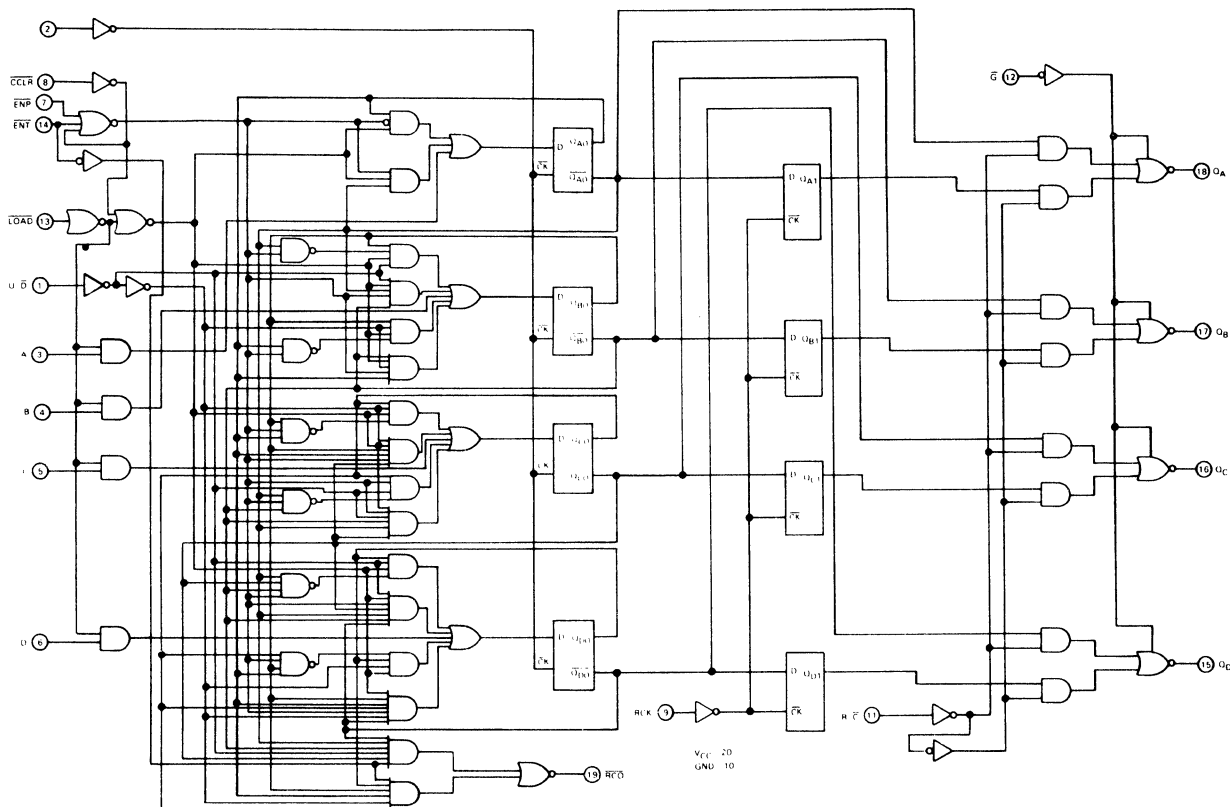


E03-94

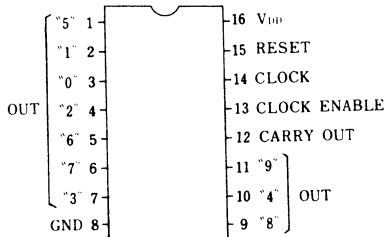


29. LOGIC/BLOCK DRAWINGS

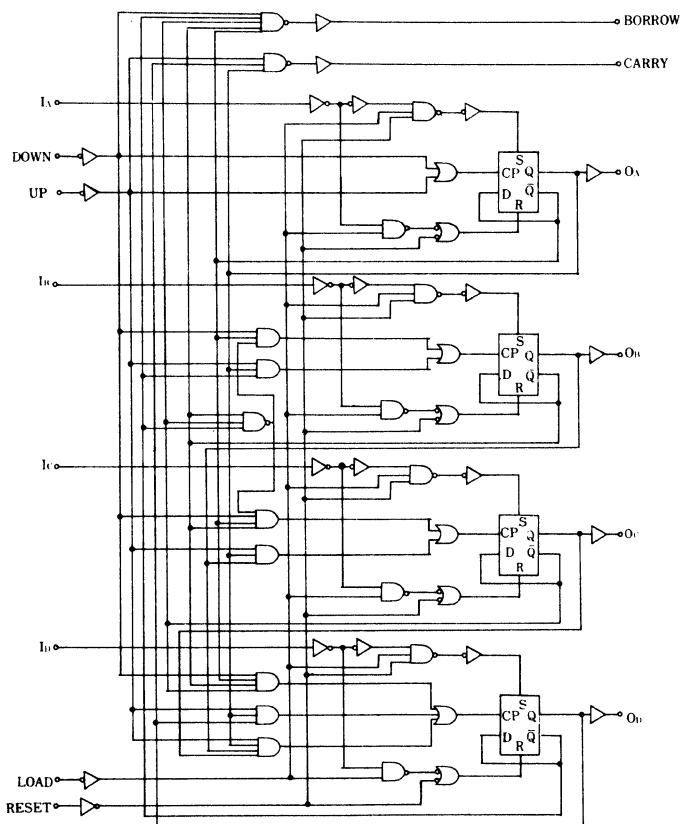
E03-95



E03-96

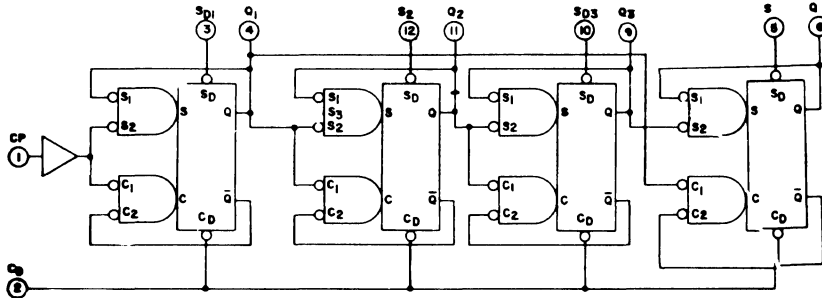


E03-97

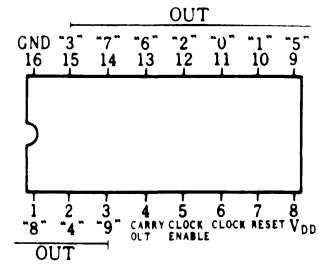


29. LOGIC/BLOCK DRAWINGS

E05-3



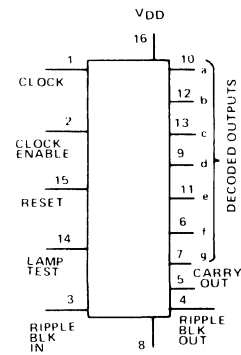
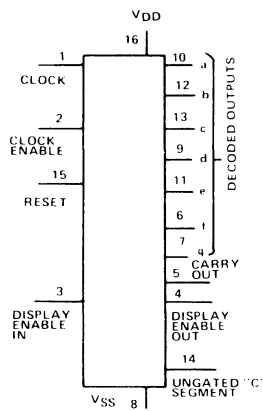
E05-10



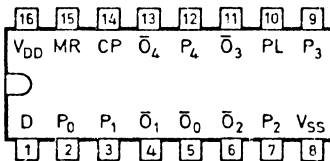
E05-13

E05-13c - Same as E05-13b except outputs are open emitter. Except pin 14 (ungated "C" segment)

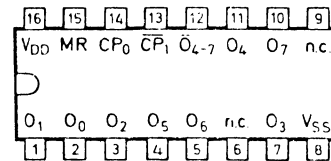
NOTE: On open emitter output devices, the output transistor collector is tied to V+ (VDD).



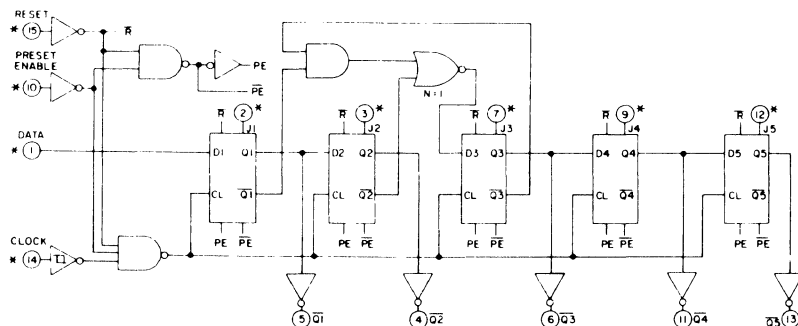
E05-17



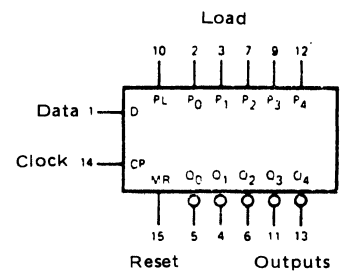
E05-18



E05-19

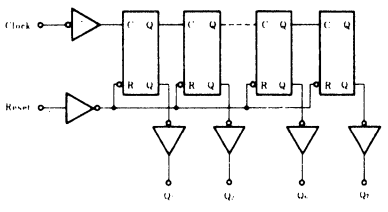


E05-23

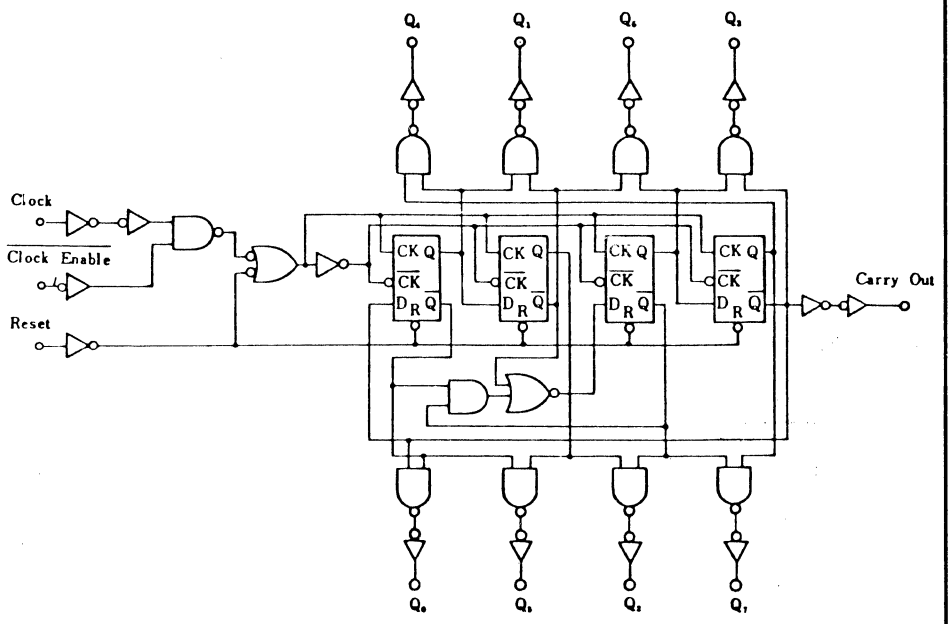


29. LOGIC/BLOCK DRAWINGS

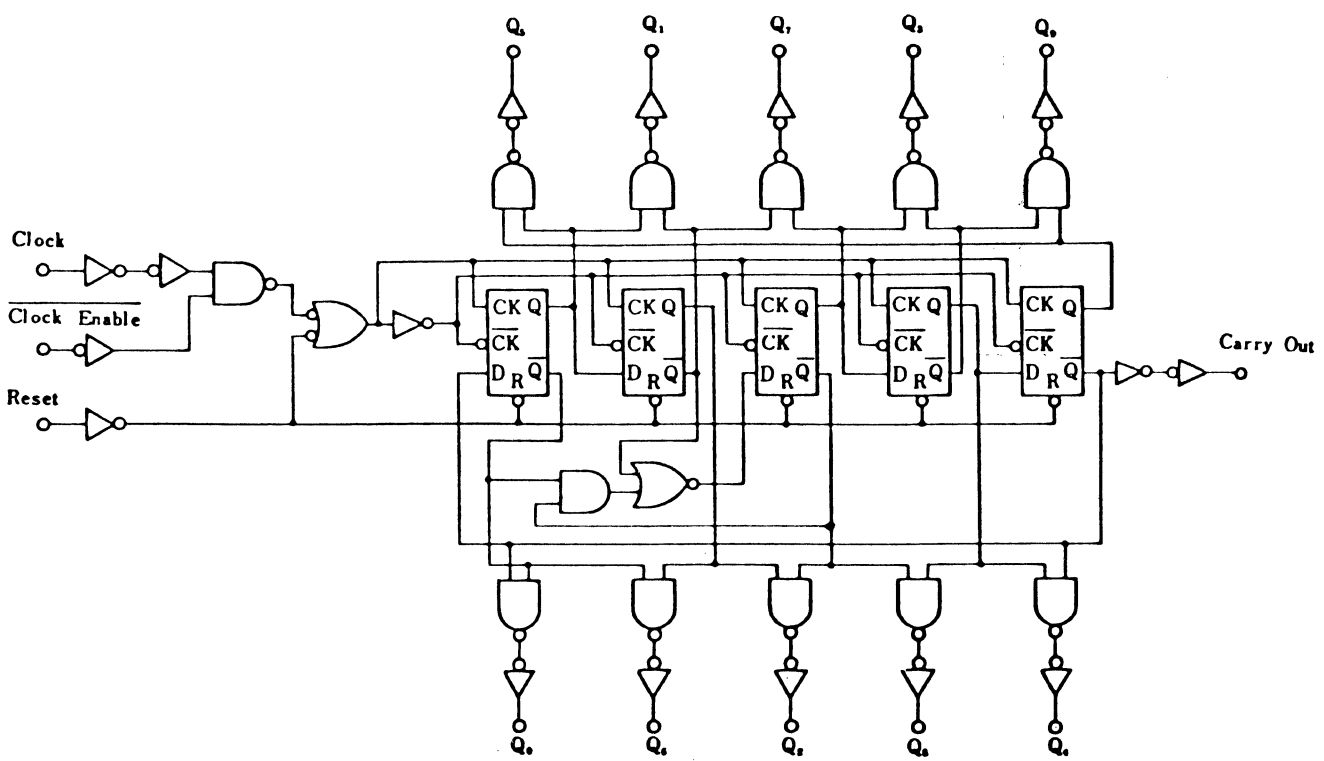
E05-29



E05-30

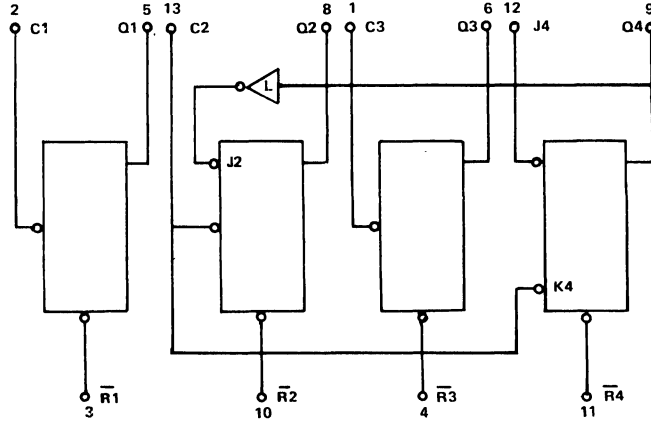


E05-31

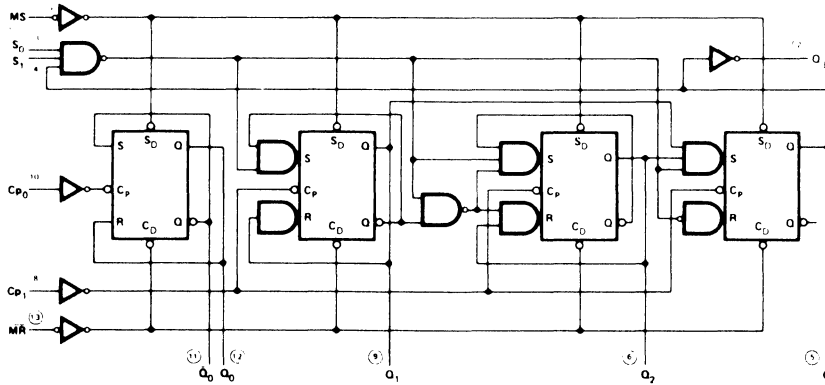


29. LOGIC/BLOCK DRAWINGS

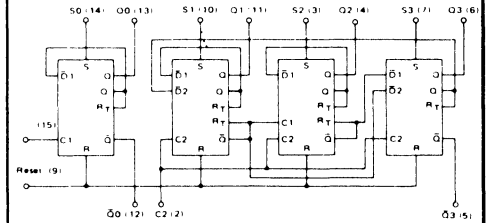
E06-7



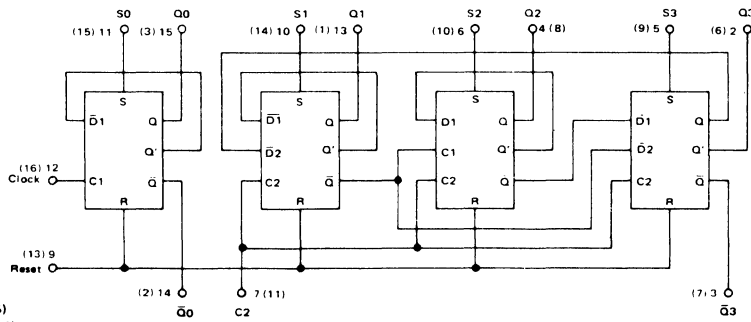
E06-8



E06-9

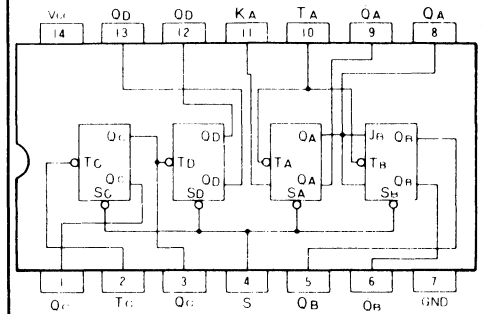


E06-15

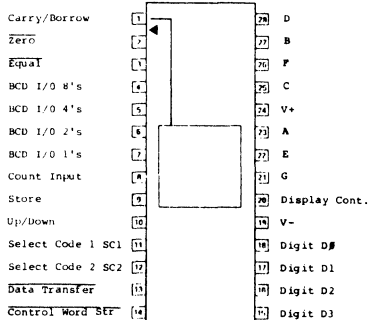


VCC1 = Pin 1 (5)
 VCC2 = Pin 16 (4)
 VEE = Pin 8 (12)
 () = FLAT PACK

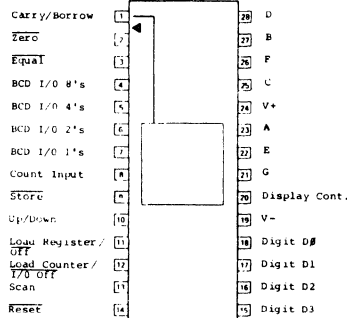
E06-17



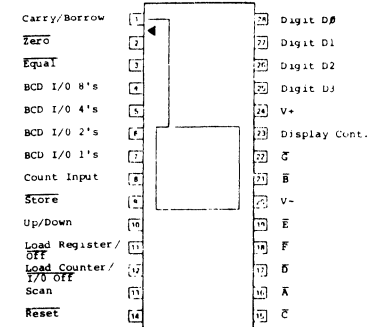
E06-25



E06-26

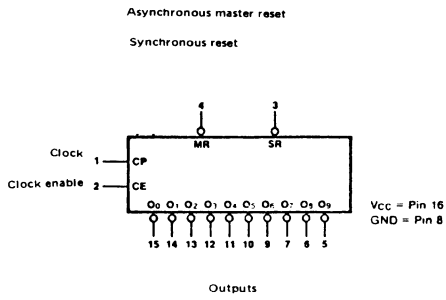


E06-27

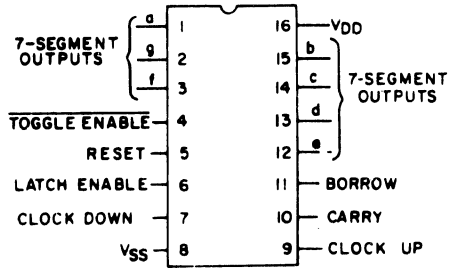


29. LOGIC/BLOCK DRAWINGS

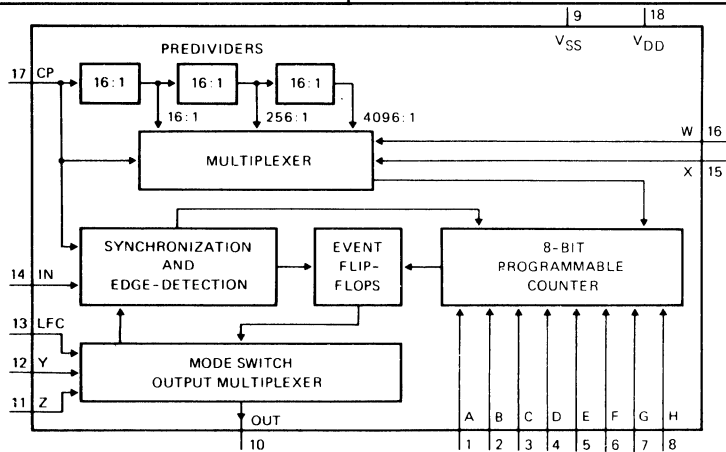
E06-28



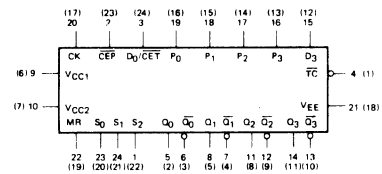
E06-29



E06-32

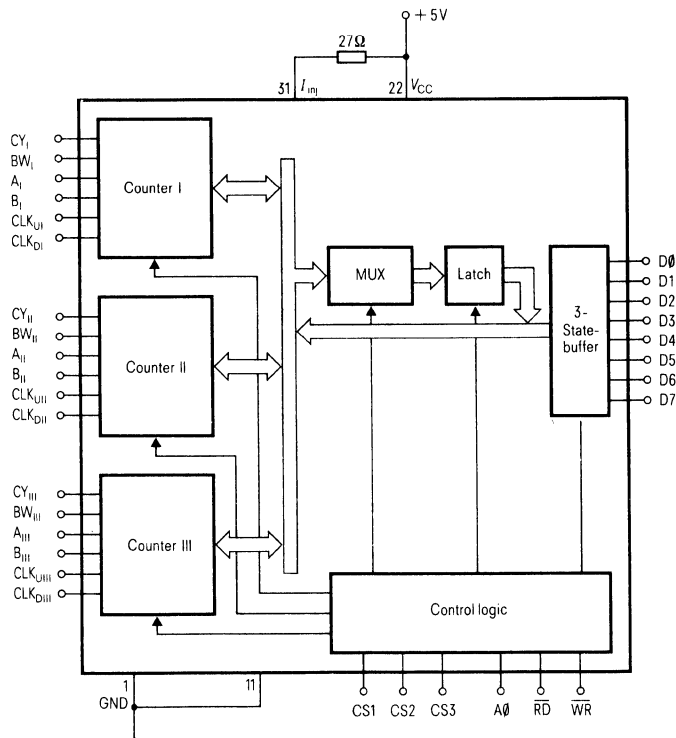


E06-33



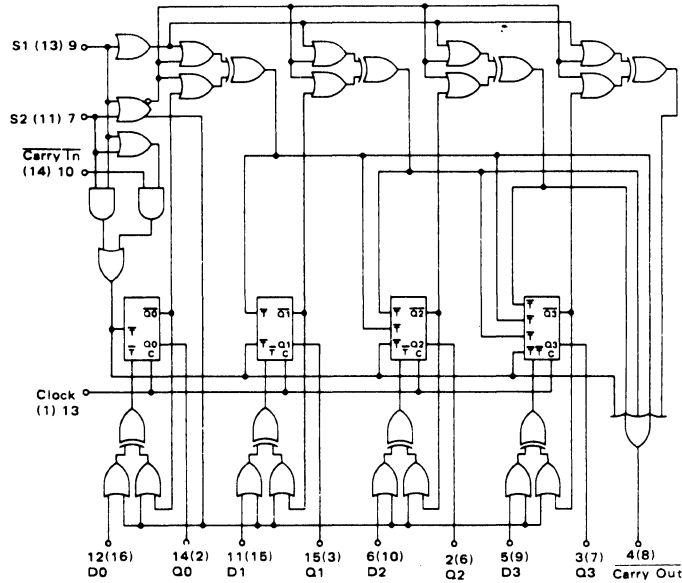
Pin connections for flat pack and in () for SLIM DIP packages.

E06-34

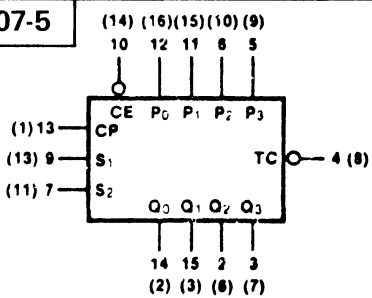


29. LOGIC/BLOCK DRAWINGS

E07-3



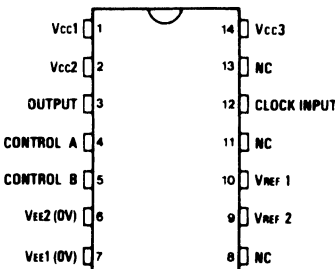
E07-5



VCC1 = Pin 1 (5)
 VCC2 = Pin 16 (4)
 VEE = Pin 8 (12)
 () = Flatpak

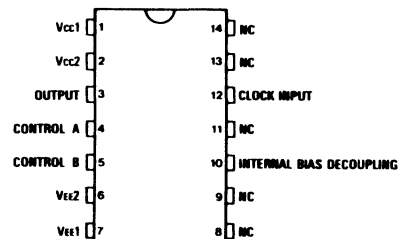
E09-01

1.0GHz 4-Modulus Divider



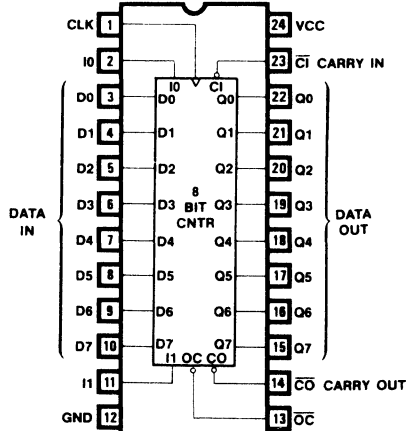
E09-2

500MHz 4-Modulus Divider



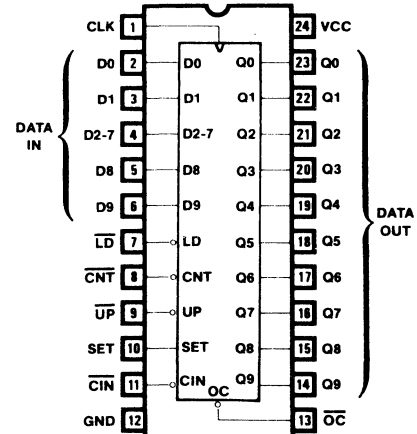
E10-01

Octal Counter



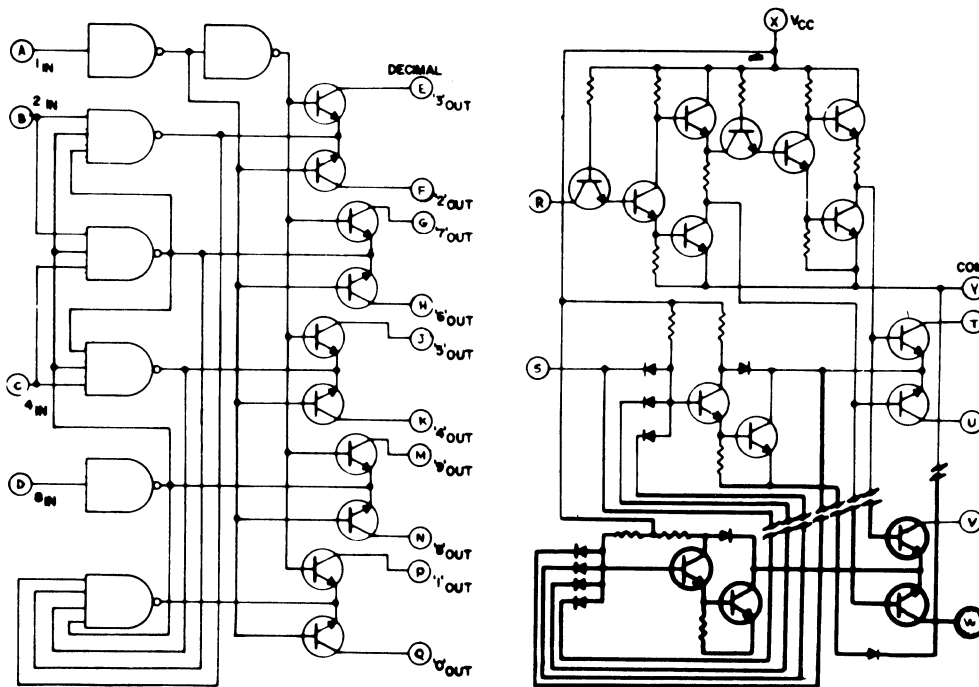
E11-01

10-Bit Counter



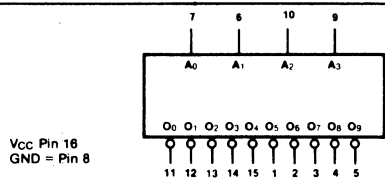
29. LOGIC/BLOCK DRAWINGS

F01-19



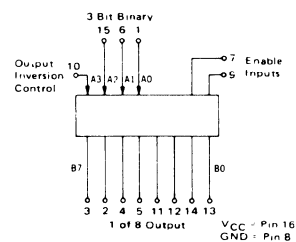
	A	B	C	D	E	F	G	H	J	K	M	N	P	Q	R	S	T	U	V	W	X	Y
F01-19	15	2	3	1	5	4	6	7	10	9	14	13	11	12	15	2	5	4	11	12	16	8
F01-19a	3	6	7	4	9	8	10	11	14	13	2	1	15	16	3	6	9	8	15	16	5	12

F01-20



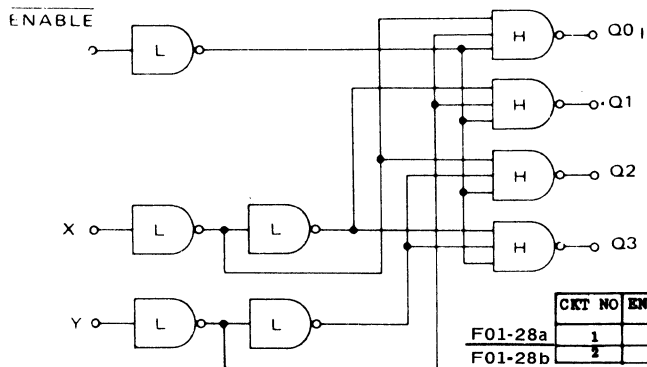
	A ₀	A ₁	A ₂	A ₃	O ₀	O ₁	O ₂	O ₃	O ₄	O ₅	O ₆	O ₇	O ₈	O ₉	Vcc	Gnd	Notes
F01-20	7	6	10	9	11	12	13	14	15	1	2	3	4	5	16	8	Q ₀ = Lo when A ₀ A ₁ A ₂ A ₃ = Lo
F01-20b	15	14	1	2	13	12	11	10	9	3	4	5	6	7	16	8	Q ₀ = Hi when A ₀ A ₁ A ₂ A ₃ = Lo
F01-20c	3	6	7	4	16	15	8	9	13	14	11	10	1	2	5	12	Q ₀ = Hi when A ₀ A ₁ A ₂ A ₃ = Lo
F01-20d	15	2	3	1	12	11	4	5	9	10	7	6	13	14	16	8	Q ₀ = Lo when A ₀ A ₁ A ₂ A ₃ = Lo
F01-20h	3	6	7	4	16	15	8	9	13	14	11	10	1	2	5	12	Over range when A ₃ = Hi
F01-20i	10	13	12	11	3	14	2	15	1	6	7	4	9	5	16	8	Q ₀ = Hi when A ₀ A ₁ A ₂ A ₃ = Lo
F01-20k	3	6	2	4	16	15	8	9	13	14	11	10	1	2	12	5	Q ₀ = Lo when A ₀ A ₁ A ₂ A ₃ = Lo
F01-20l	1	2	3	4	16	14	13	12	11	10	9	7	6	5	16	8	Q ₀ = Lo when A ₀ A ₁ A ₂ A ₃ = Lo
F01-20m	15	14	1	2	13	12	11	10	9	3	4	5	6	7	16	8	

F01-22



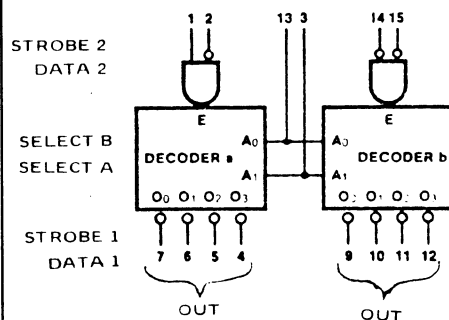
F01-22	3-BIT BINARY	A ₂
F01-22a	1-OF-8 OUTPUT	A ₀
F01-22a	4-BIT BINARY	A ₃
F01-22a	2-OF-8 OUTPUT	A ₁

F01-28



CKT NO	ENABLE	X	Y	Q ₀	Q ₁	Q ₂	Q ₃	V _{CC}	GND
F01-28a	1	6	8	7	4	3	2	16	8
F01-28b	2	11	10	9	13	13	14	16	8

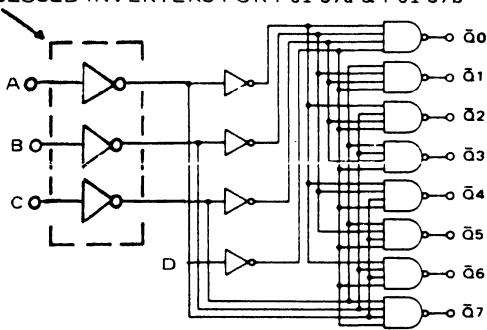
F01-31



29. LOGIC/BLOCK DRAWINGS

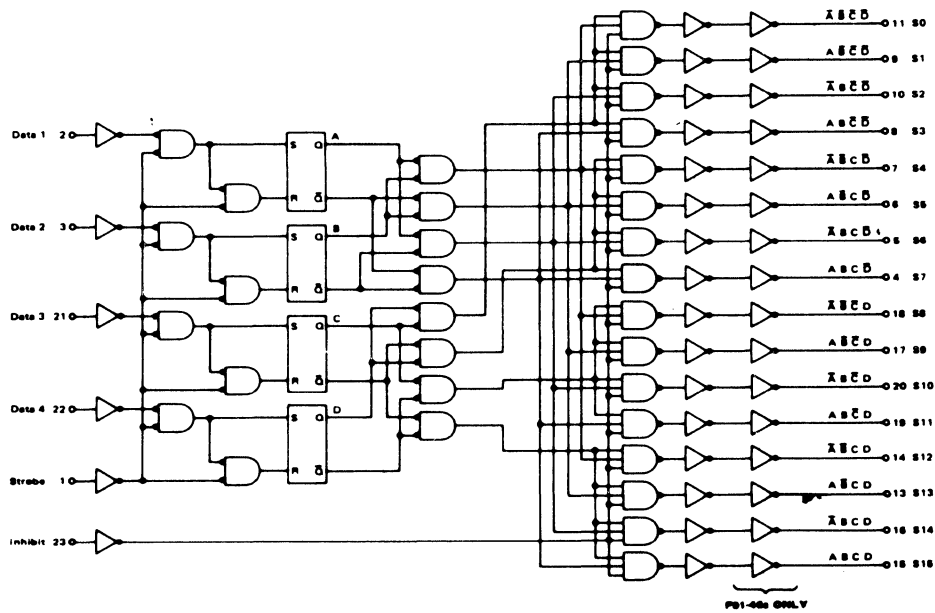
F01-37

ENCLOSED INVERTERS FOR F01-37a & F01-37b

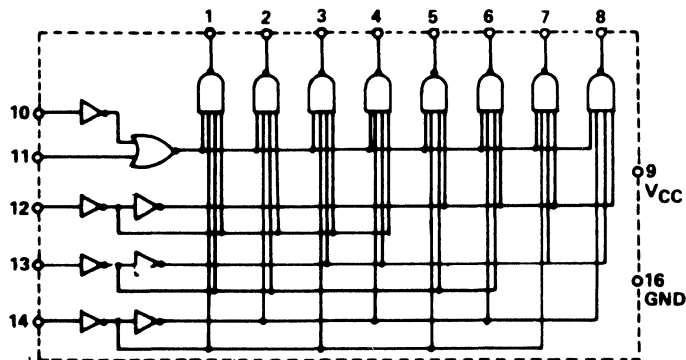


	A	B	C	D	Q0	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Vcc	Gnd
F01-37	1	13	2	3	12	11	10	9	8	4	5	6	14	7
F01-37a	1	13	2	3	12	11	10	9	8	4	5	6	14	7
F01-37b	5	3	6	7	2	1	14	13	12	8	9	10	4	11

F01-46

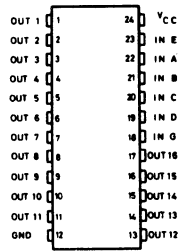


F01-50

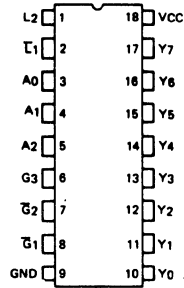


29. LOGIC/BLOCK DRAWINGS

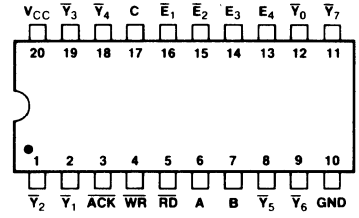
F01-60



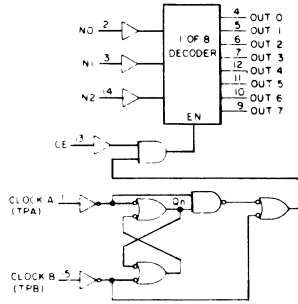
F01-63



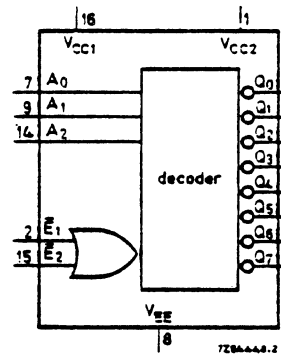
F01-64



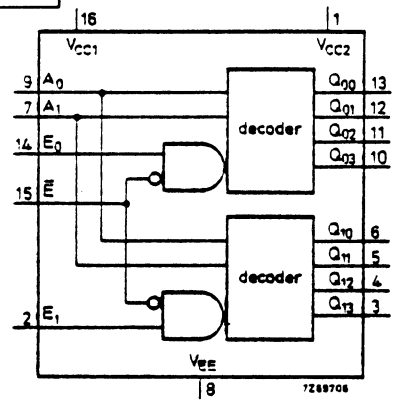
F01-65



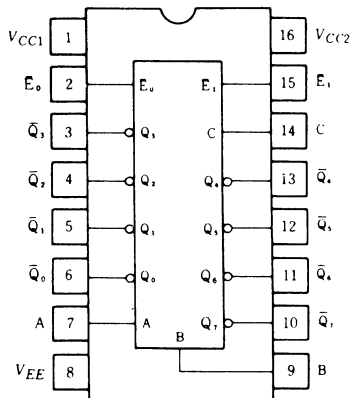
F01-66



F01-67

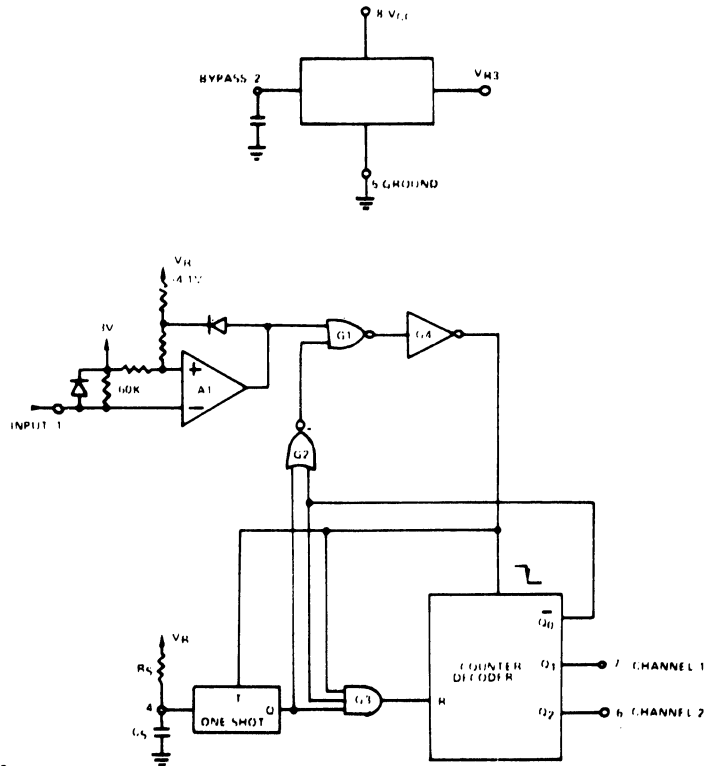


F01-68



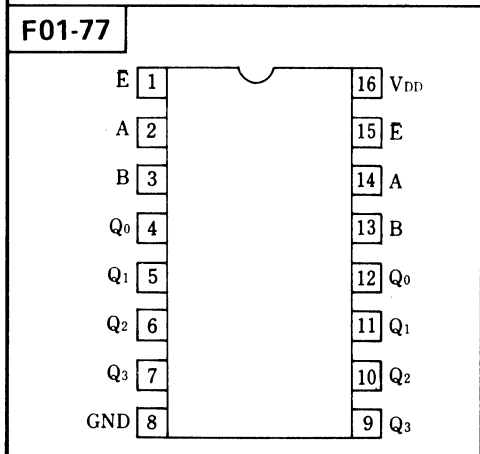
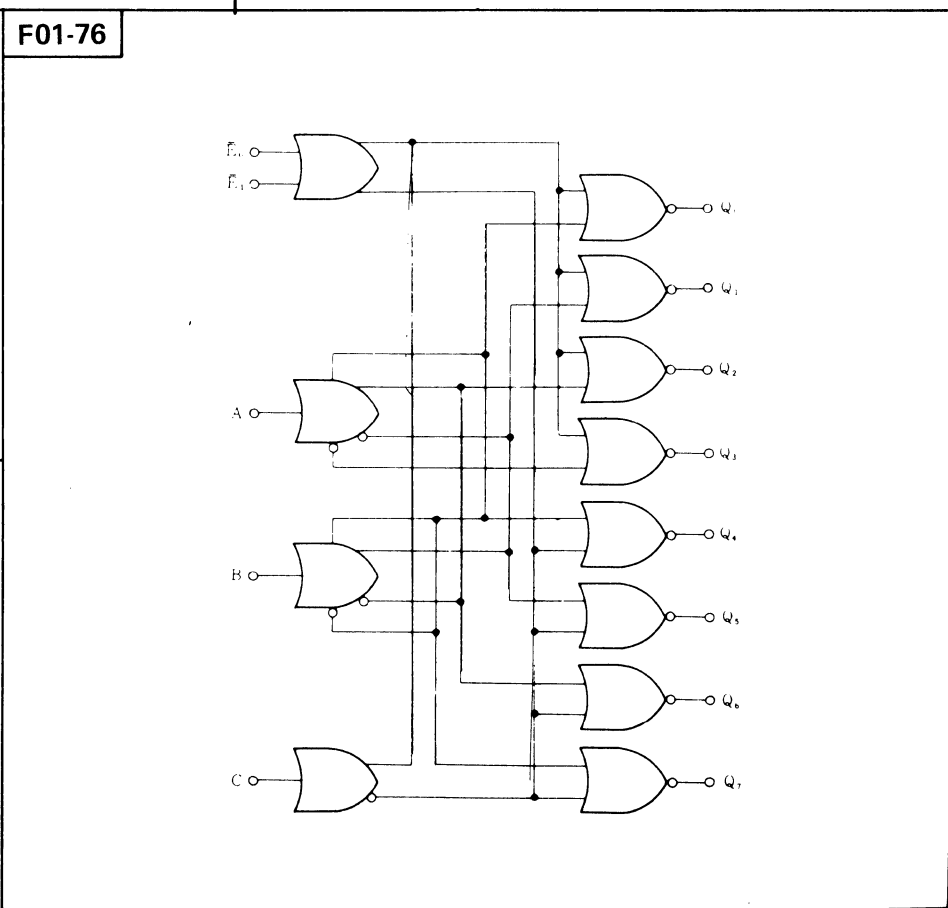
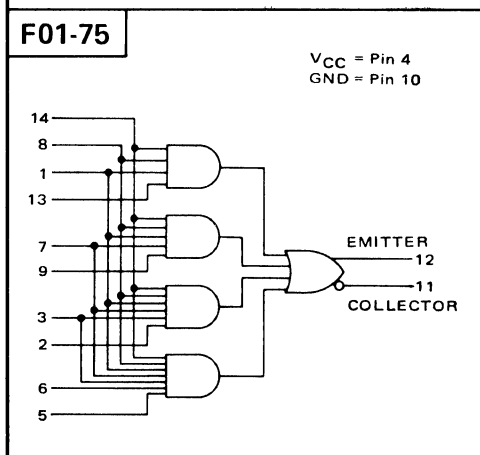
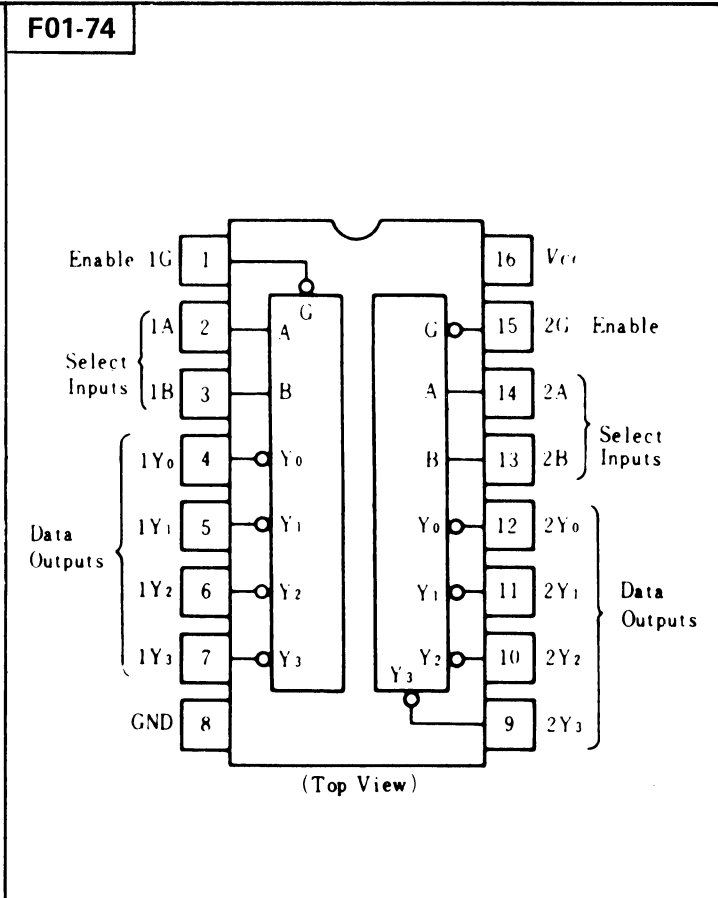
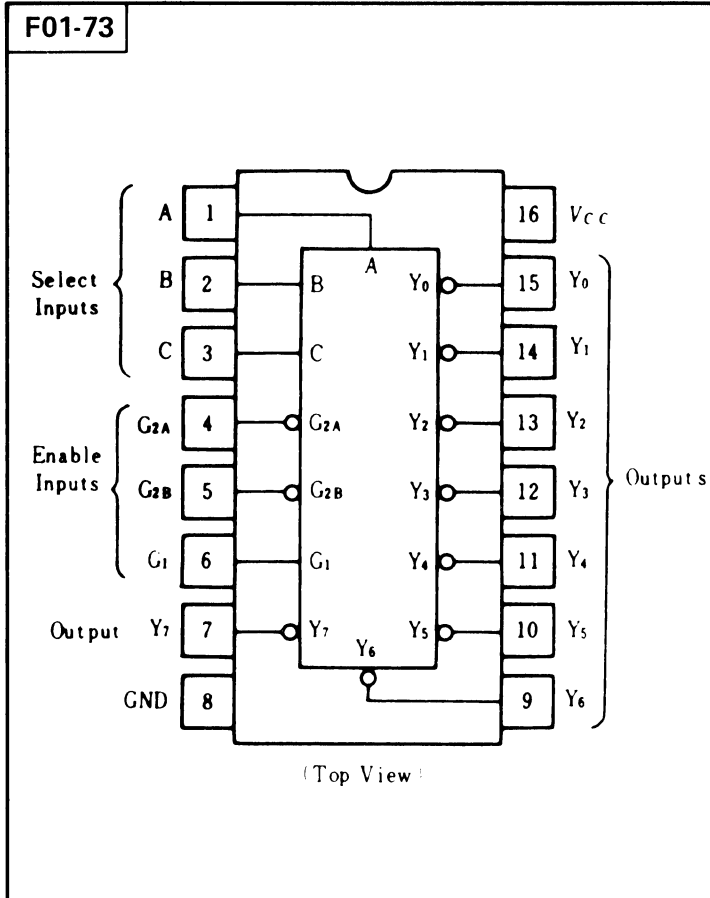
F01-68a Outputs Not Inverted

F01-70



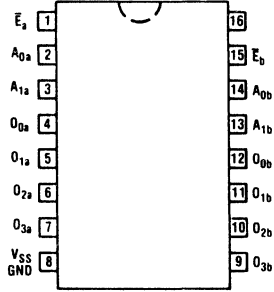
VCC = Pin 16
GND = Pin 8

29. LOGIC/BLOCK DRAWINGS

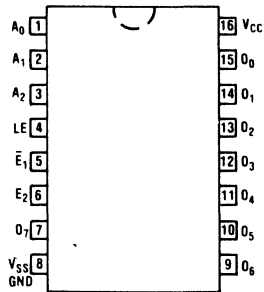


29. LOGIC/BLOCK DRAWINGS

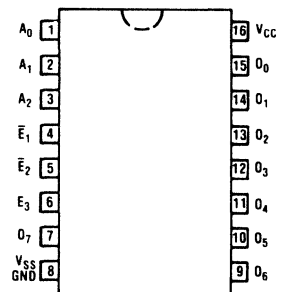
F01-78



F01-79

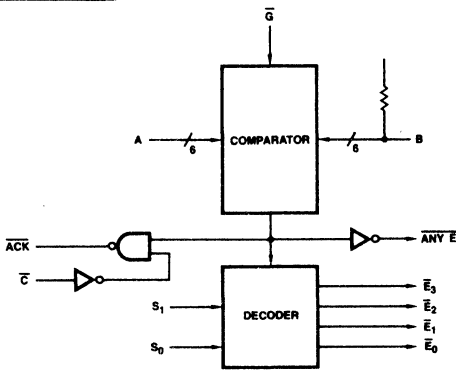


F01-80

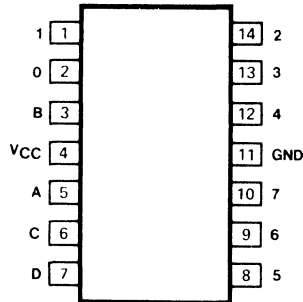


F01-81

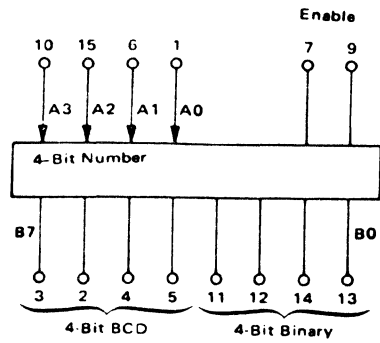
Six Bit Chip Select Decoder



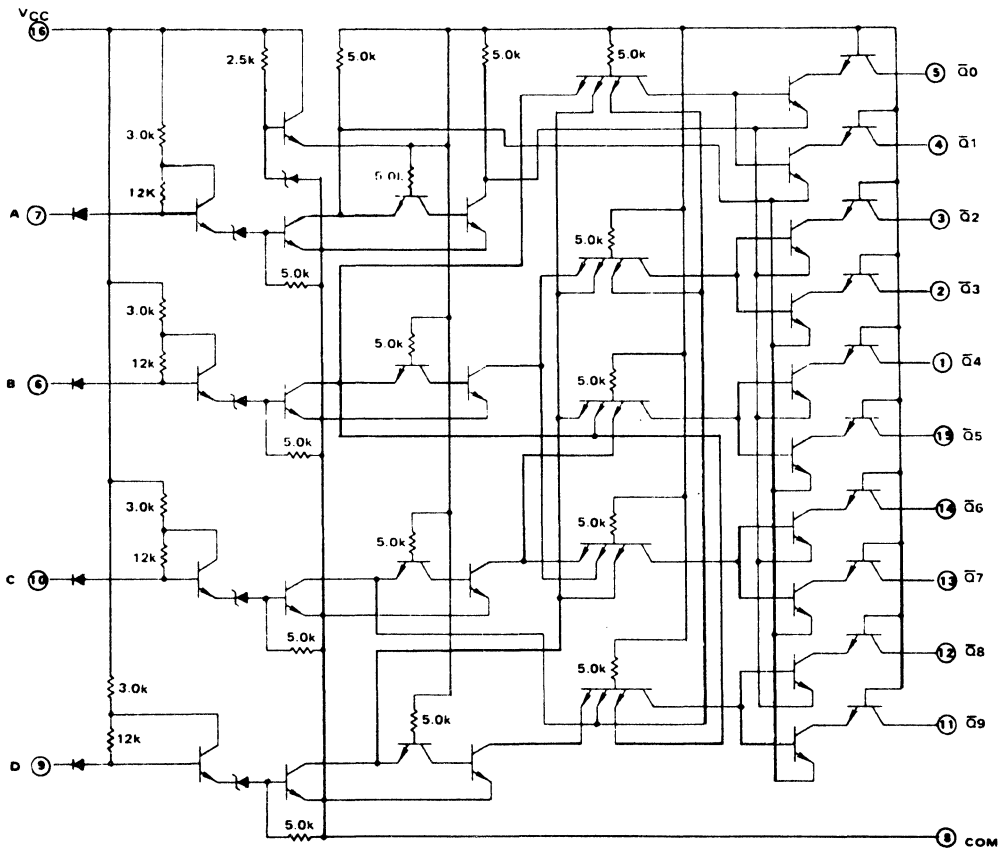
F01-82



F02-36

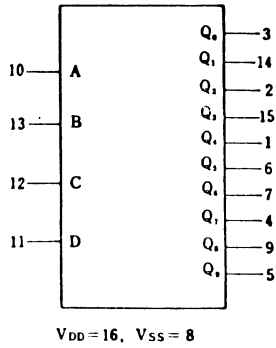


F02-55

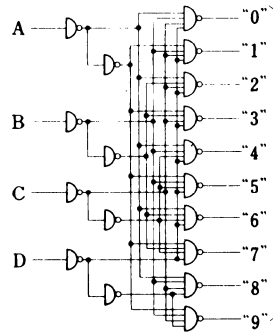


29. LOGIC/BLOCK DRAWINGS

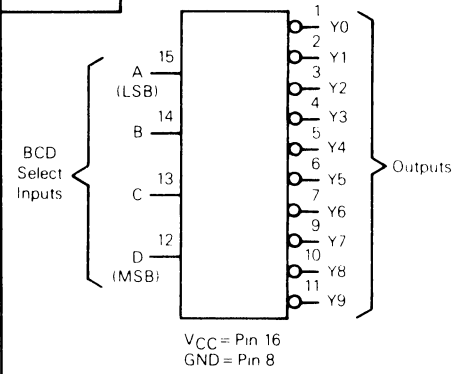
F02-121



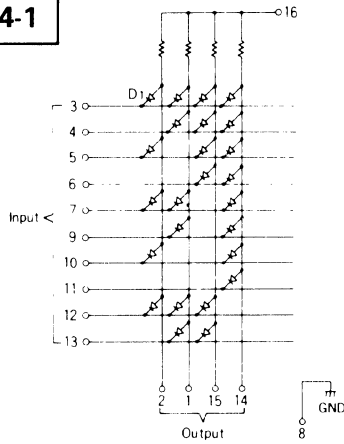
F02-122



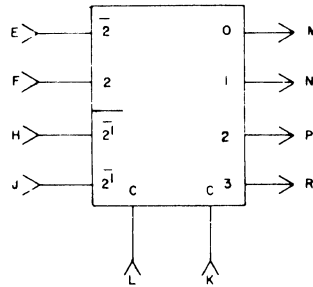
F02-123



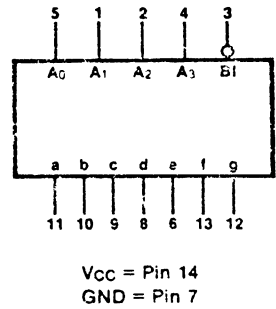
F04-1



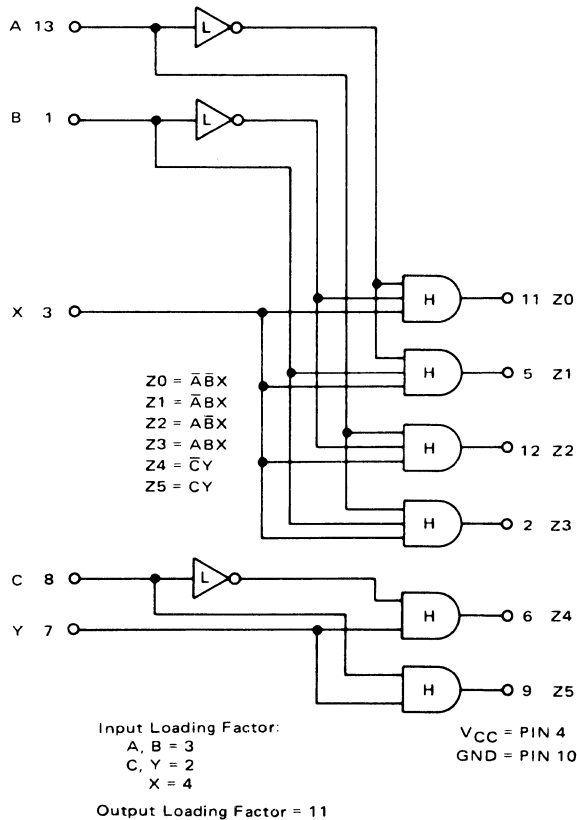
F17-6



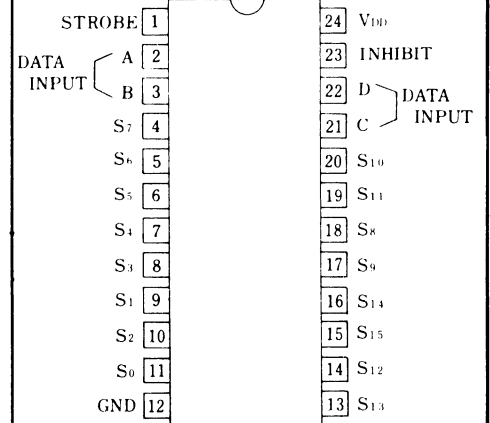
F18-2



F18-3



F18-4



29. LOGIC/BLOCK DRAWINGS

F18-5

1/2 OF DEVICE SHOWN

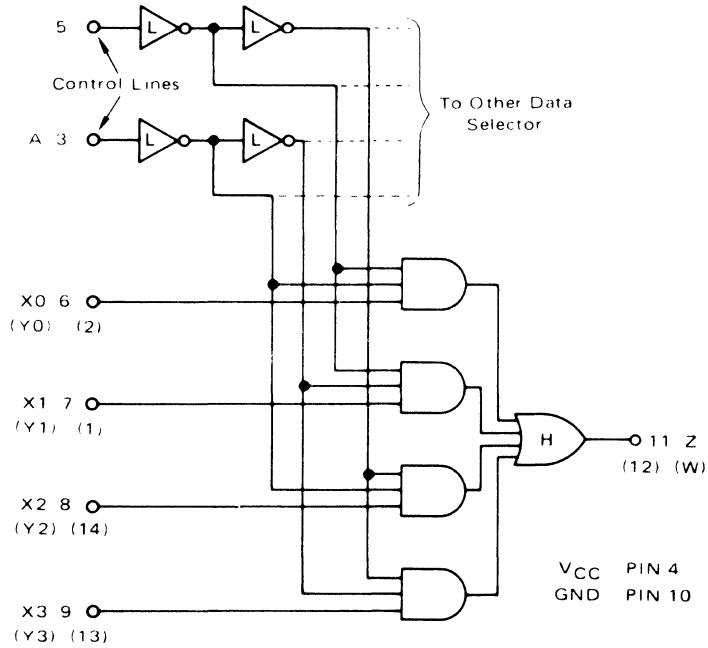
(Numbers and symbols in parenthesis are for other half of device.)

Input Loading Factor = 1

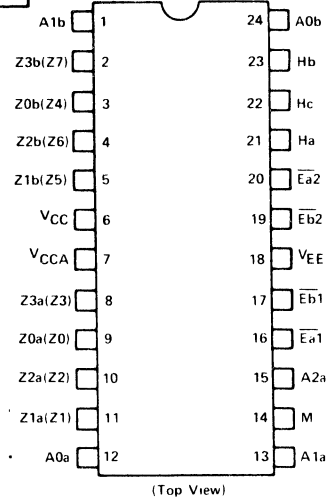
Output Loading Factor = 10

$$Z = ABX0 \cdot \bar{A}\bar{B}X1 \cdot \bar{A}BX2 \cdot \bar{A}\bar{B}X3$$

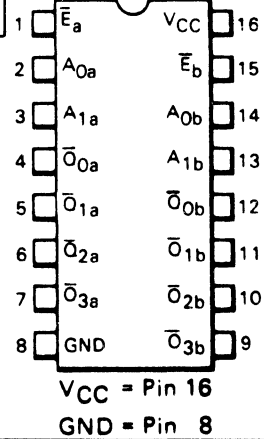
$$W = ABY0 \cdot \bar{A}\bar{B}Y1 \cdot \bar{A}BY2 \cdot \bar{A}\bar{B}Y3$$



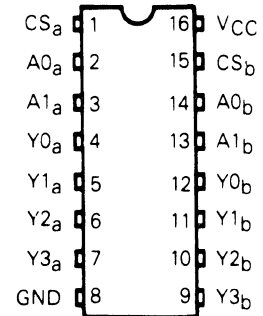
F19-1



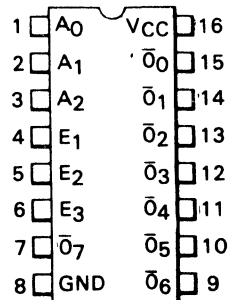
F19-2



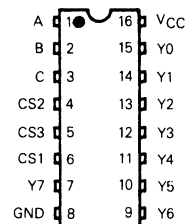
F19-3



F23-2



F23-3



29. LOGIC/BLOCK DRAWINGS

G01-3

**FIGURE A
COMMON ANODE**

**FIGURE B
COMMON CATHODE**

G01-85

PIN CONNECTIONS

	G0185	G0185 A		G0185	G0185 A
1	V _{EE}	OUT	11	C	V _{EE}
2	-	A	12	B	-
3	-	B	13	A	V _{CC}
4	-	C	14	-	V _{BB}
5	OUT	D	15	-	
6	-	E	16	-	
7	V _{CC}	G	17	V _{BB}	
8	F	-	18	-	
9	E	OUT	19	-	
10	D	-	20	-	

G01-156

**DOTTED SECTIONS
FOR G01-156a ONLY**

PKG	CKT NO.	A	B	C	D	E	F	G	V _{CC}	COM
G01-156	1	5	6	9	11	8	7	12	4	10
	2	1	4	2	3	NC	NC	13		
G01-156a	PP	1	3	5	13	14	2	1	12	4
		2	6	7	8	9	NC	NC	10	
M	1	1	13	10	9	12	11	9	14	7
	2	2	3	4	5	NC	NC	6		

G01-158

G01-159

G01-163

G01-164

G01-177

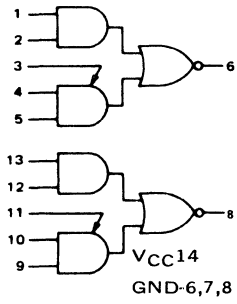
	CKT NO.	A	B	C	D	E
G01-177	1	1	2			14
	2	3	6			13
	3	7	8	9		10
G01-177A	1	1	2	3		14
	2	6				13
	3	7	8	9		10
G01-177B	1	14	1	2	3	13
	2	6	7	8	9	10

G01-179

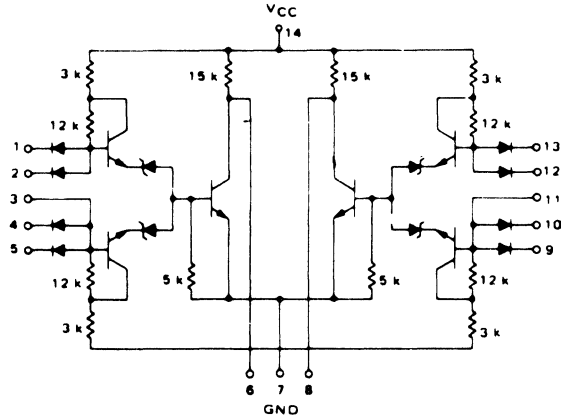
CKT NO.	A	B	C
1	14	2	13
2	6	8	9

29. LOGIC/BLOCK DRAWINGS

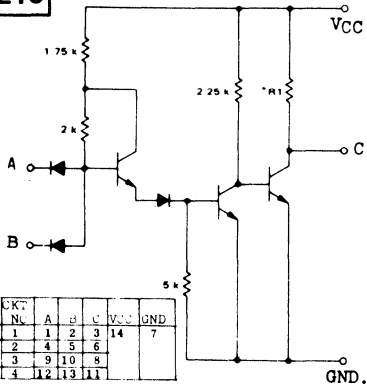
G01-191



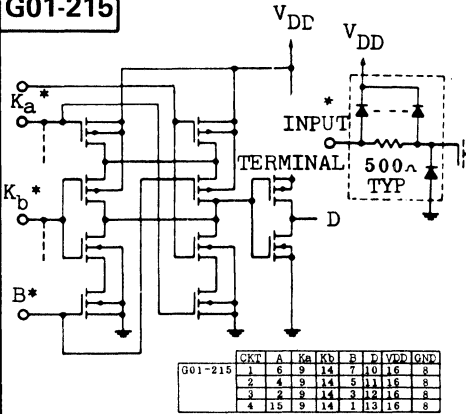
G01-192



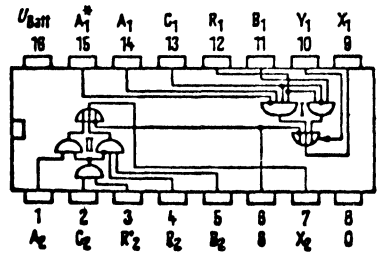
G01-210



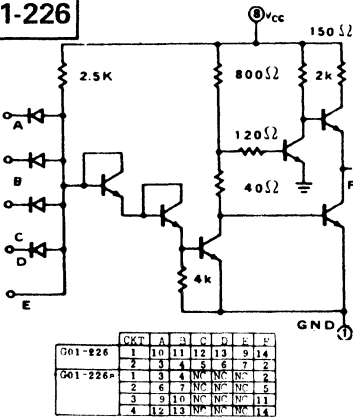
G01-215



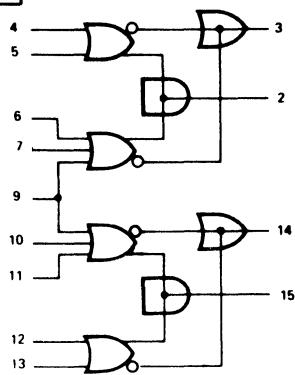
G01-223



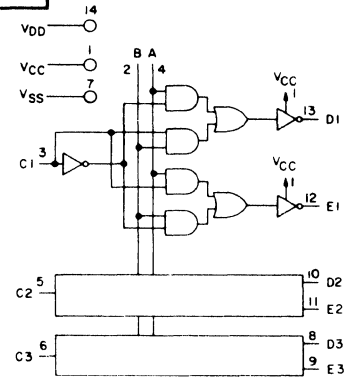
G01-226



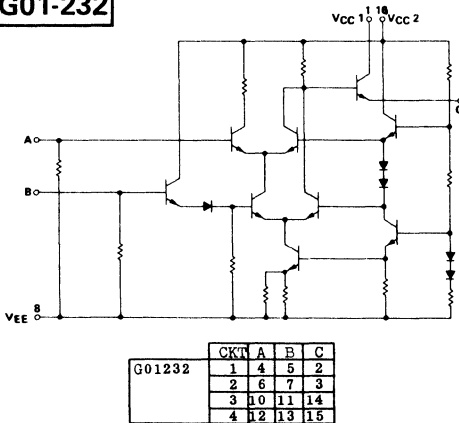
G01-229



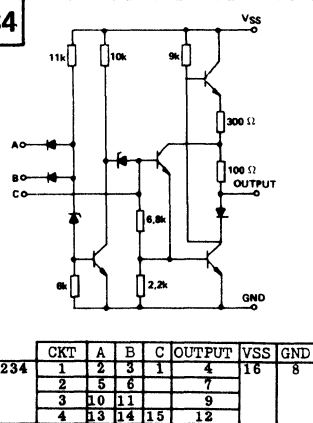
G01-230



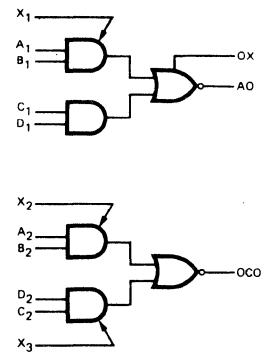
G01-232



G01-234

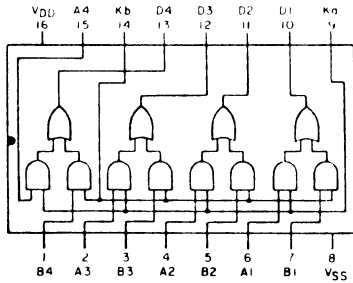


G01-235

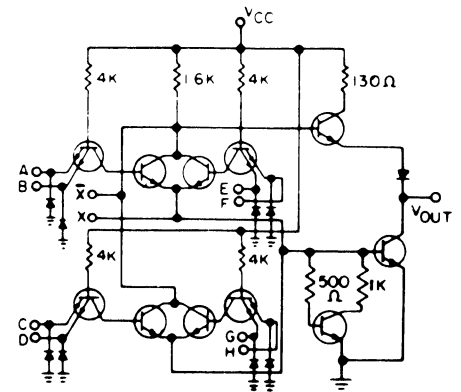
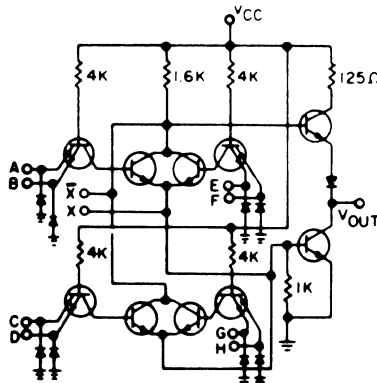


29. LOGIC/BLOCK DRAWINGS

G01-239



G01-246

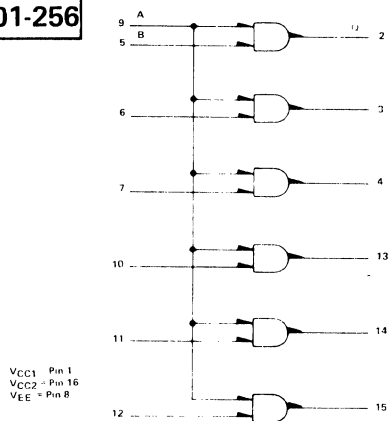


CIRCUIT VARIATION I

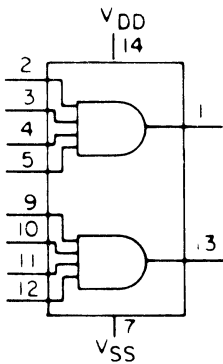
CIRCUIT VARIATION II

	PKG	A	B	C	D	E	F	G	H	X	Y	Z	VOUT	VCC	GND
G01-246	FP	3	5	6	7	8	9	13	14	1	2	12	4	11	
	MP	1	13	2	3	4	5	9	10	11	12	8	14	7	

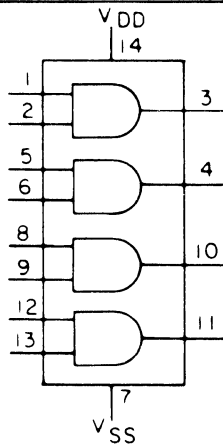
G01-256



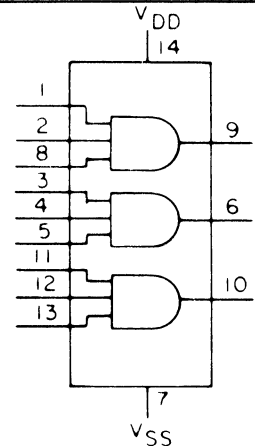
G01-260



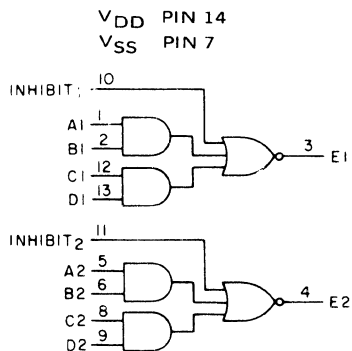
G01-261



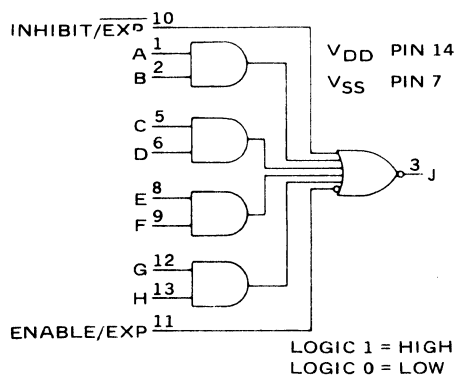
G01-262



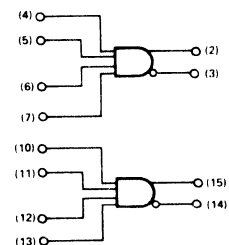
G01-263



G01-264



G01-265

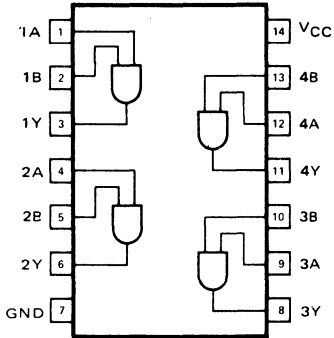


V_{CC1} = 1, V_{CC2} = 16, V_{EE} = 8
POSITIVE LOGIC: HIGH LEVEL "1"

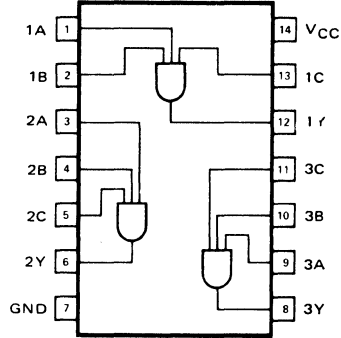
29. LOGIC/BLOCK DRAWINGS

G01-266

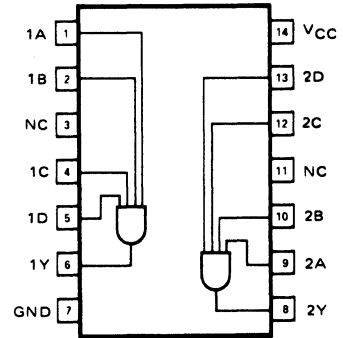
G01-266a - HAS OPEN COLLECTOR OUTPUTS.



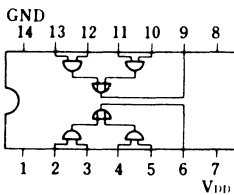
G01-267



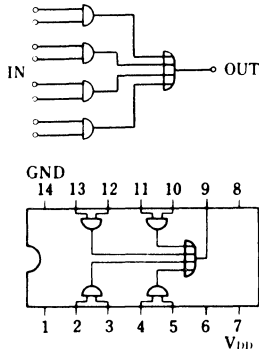
G01-268



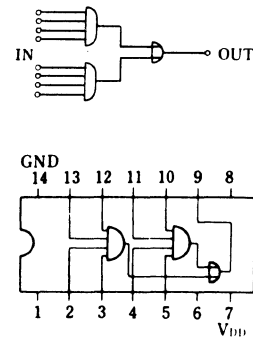
G01-274



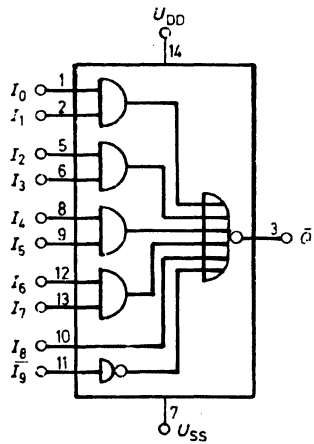
G01-275



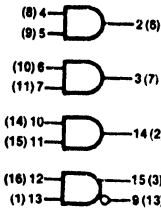
G01-276



G01-282



G01-283

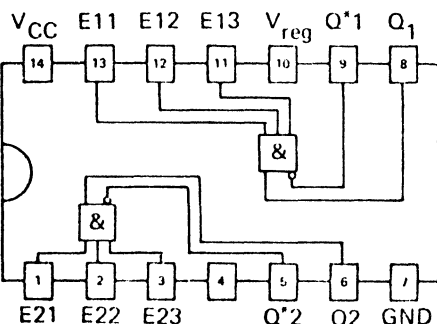


V_{CC1} = Pin 1 (5)
V_{CC2} = Pin 16 (4)
V_{EE} = 8 (12)
() = Flatpak

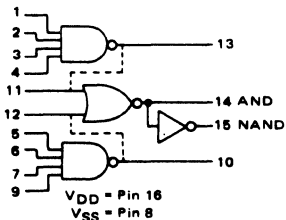
G01-286

FUNCTION	CONNECTION PINS			
	IC1	IC2	IC3	IC4
INPUTS	44	32	29	8
	46	34	22	10
OUTPUT	48	37	25	13
INPUTS	48	36	24	12
	47	35	23	11
OUTPUT	50	38	26	14
INPUTS	38	27	15	3
	42	30	18	6
OUTPUT	43	31	19	7
INPUTS	48	28	16	4
	45	33	21	9
OUTPUT	41	29	17	5
V _{CC}	51			
GND	1	52		

G01-287



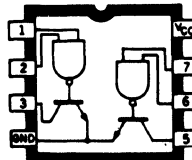
G01-291



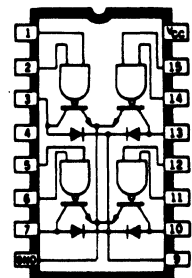
Use Dotted Connection Externally to Obtain 8-Input AND/NAND

Note: Pin 14 must not be used as an input to the inverter.

G01-292

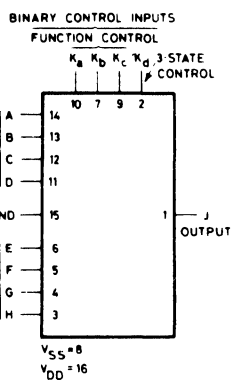
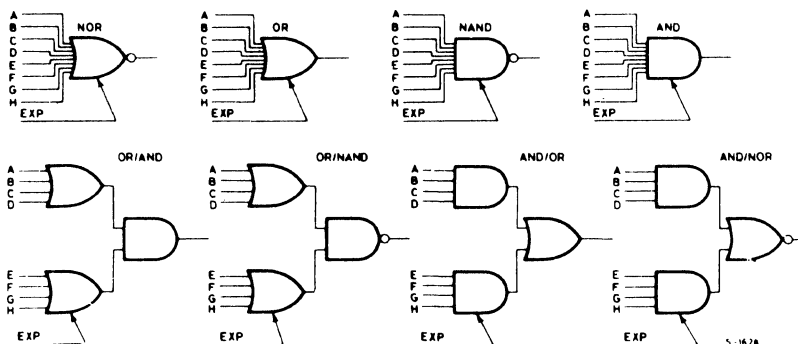


G01-293

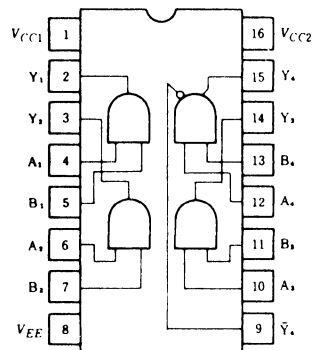


29. LOGIC/BLOCK DRAWINGS

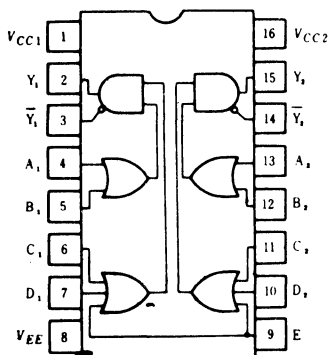
G01-298



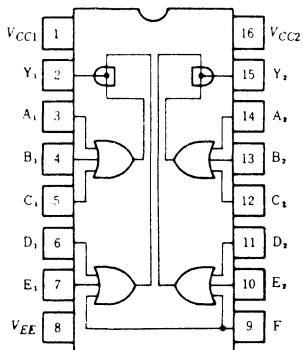
G01-299



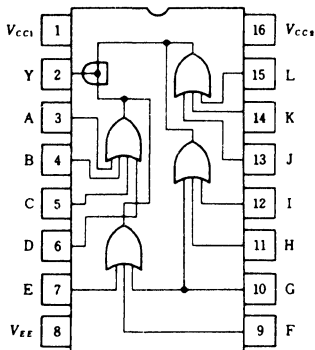
G01-300



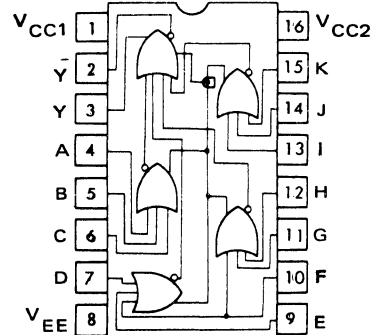
G01-301



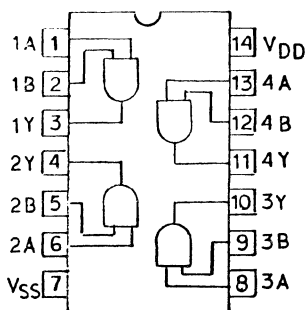
G01-302



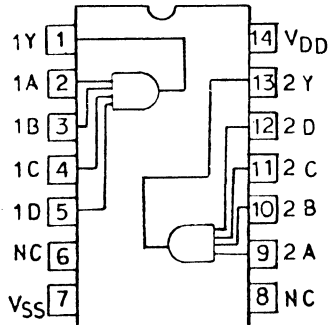
G01-303



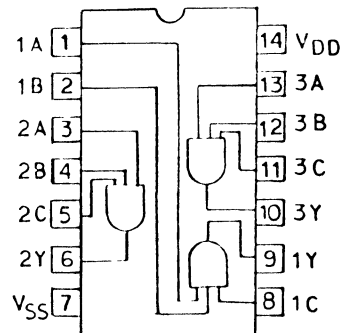
G01-304



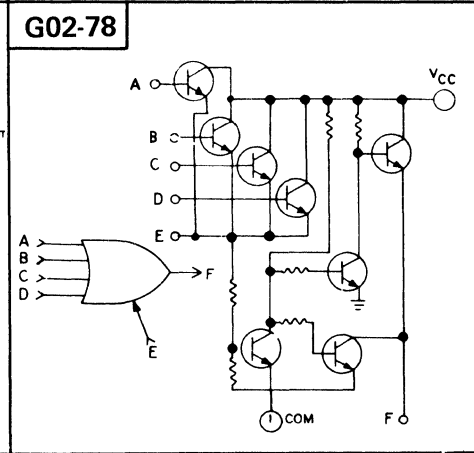
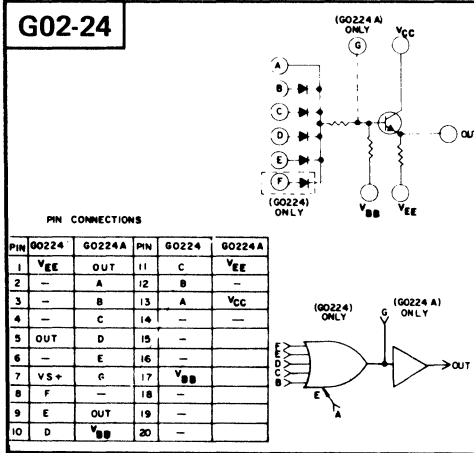
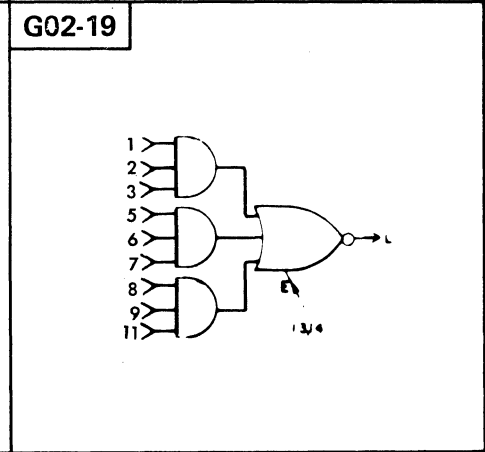
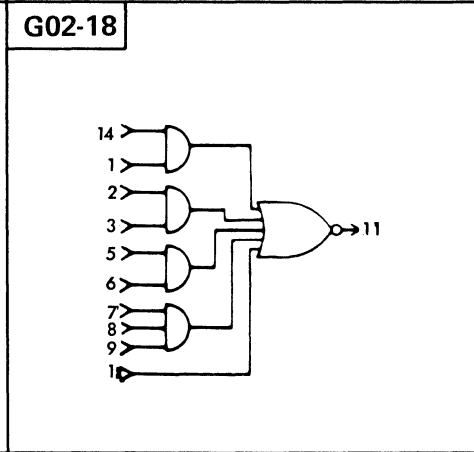
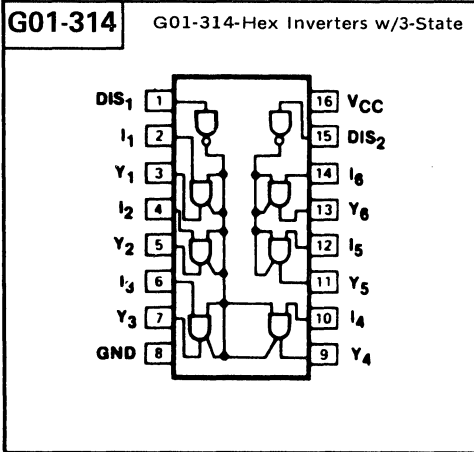
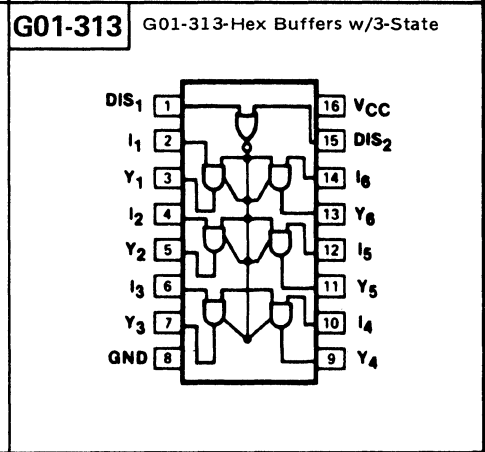
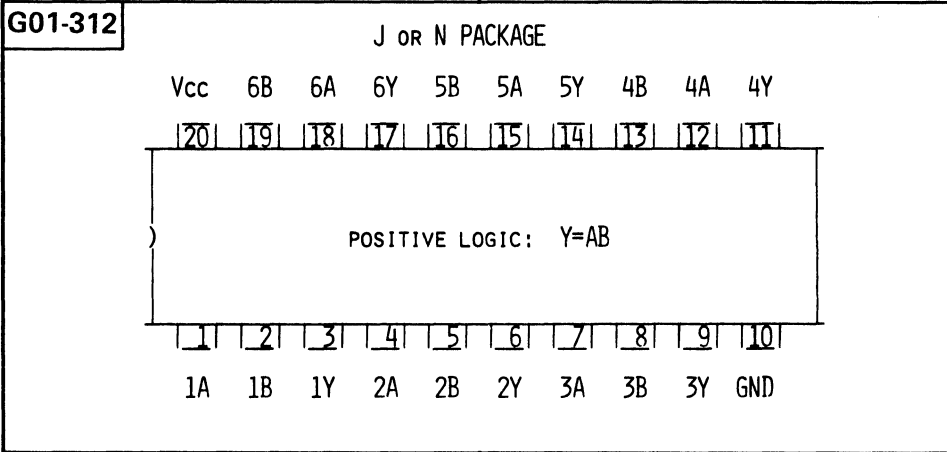
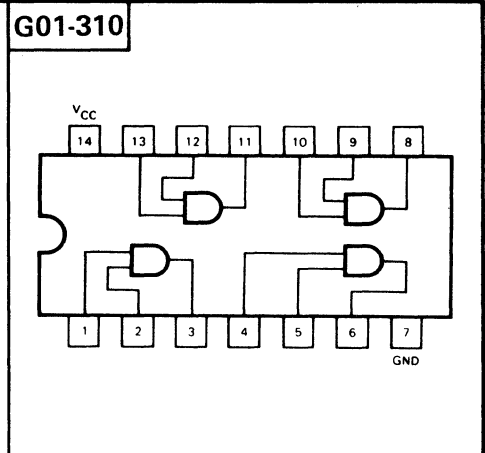
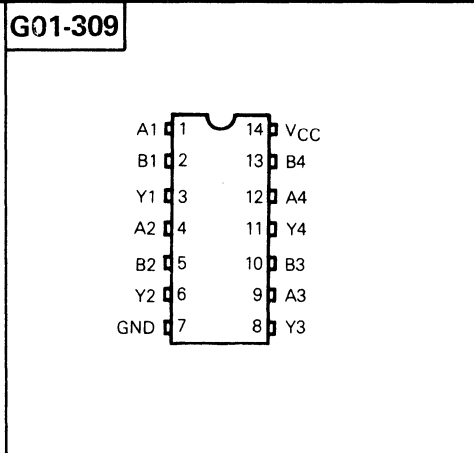
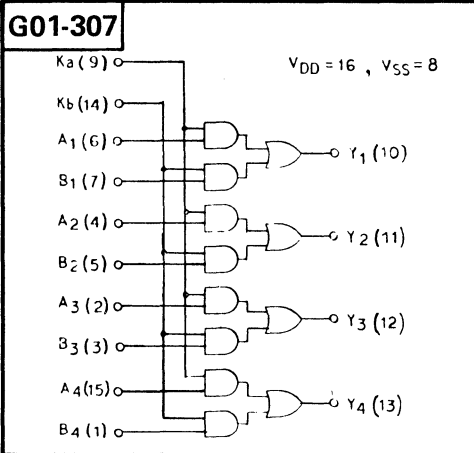
G01-305



G01-306



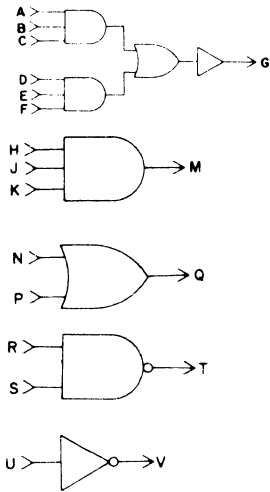
29. LOGIC/BLOCK DRAWINGS



DRAW. NO.	CKT.	A	B	C	D	E	F	V _{CC}
G02-78	1	5	4			3	2	6
	2	7	8			9	10	
G02-78a	1	5	4	3				6
	2	7	8	9				
G02-78b	1	4	5	6	7	3	2	8
	2	9	10	11	12	13	14	
G02-78c	1	3	4	5				2
	2	6	7	9				14
G02-78d	3	10	11	12				13
	1	4	5				3	8
G02-78e	2	6	7					9
	3	11	12			10	13	
	1	4	5					3
	2	5	7					2
	3	9	10					14
	4	11	12					13

29. LOGIC/BLOCK DRAWINGS

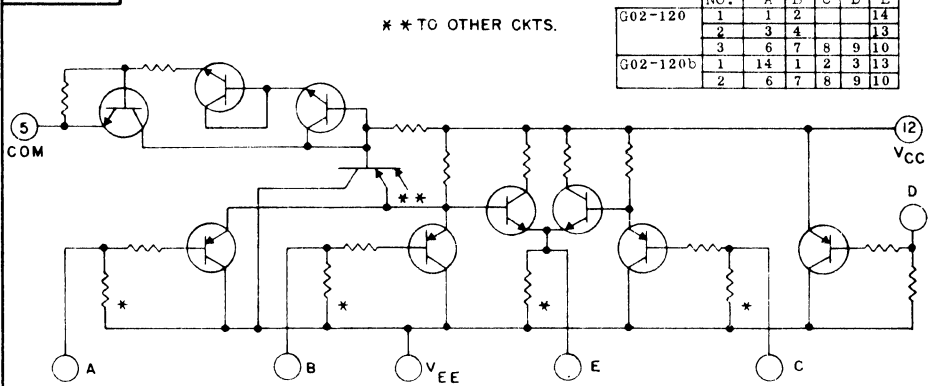
G02-105



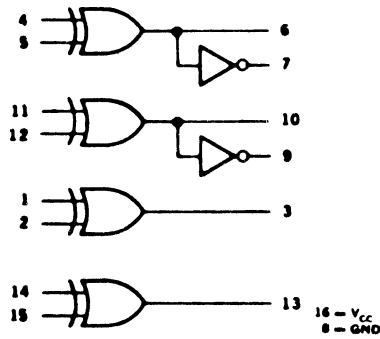
CKT NO	A	B	C	D	E	F	G	H	J
1	42	43	44	45	46	47	35	17	15
2	36	37	38	39	40	41	34	12	11
3								1	2
4								3	4

K	M	N	P	Q	R	S	T	U	V
14	9	27	28	31	19	20	22	25	23
10	8	29	30	33				26	24
5								18	21
7									

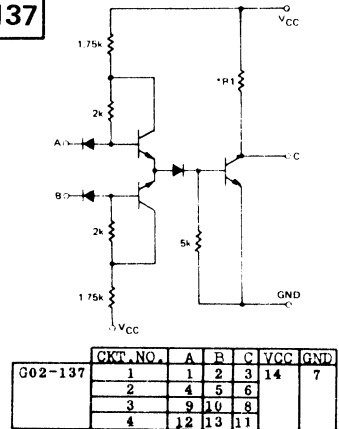
G02-120



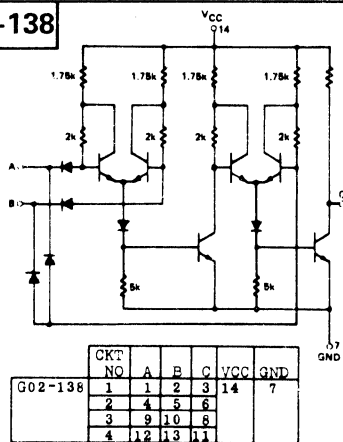
G02-132



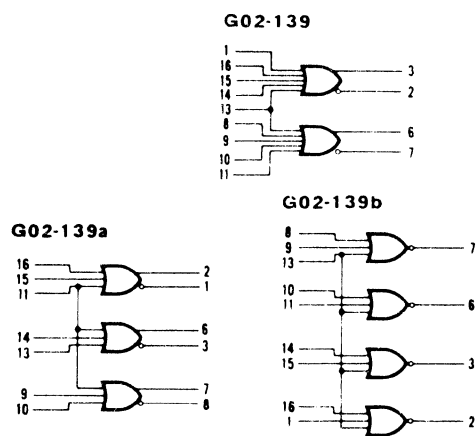
G02-137



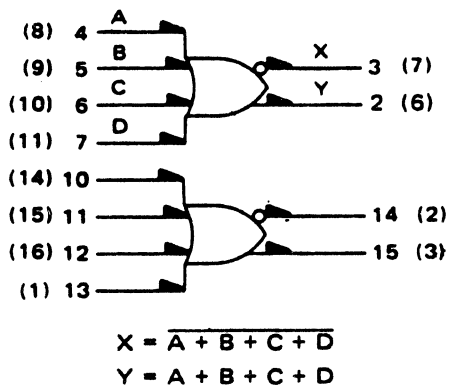
G02-138



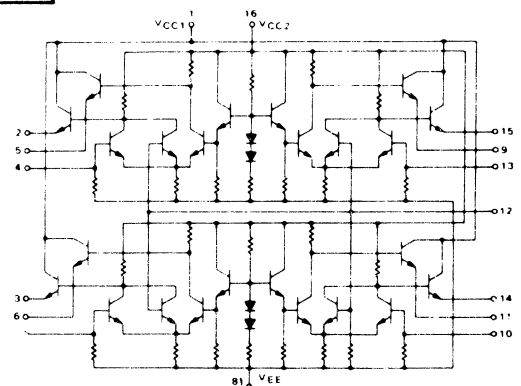
G02-139



G02-161

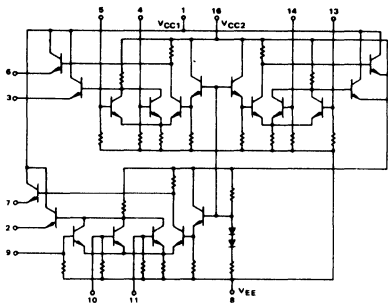


G02-162

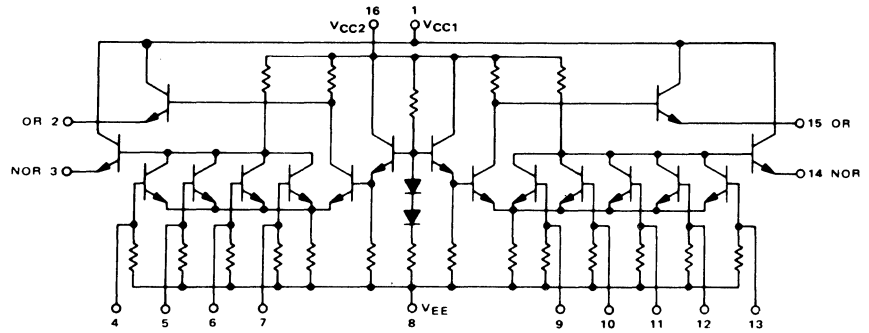


29. LOGIC/BLOCK DRAWINGS

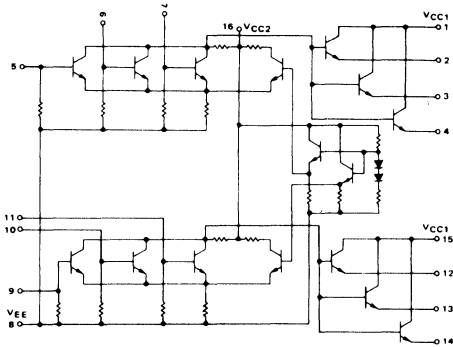
G02-163



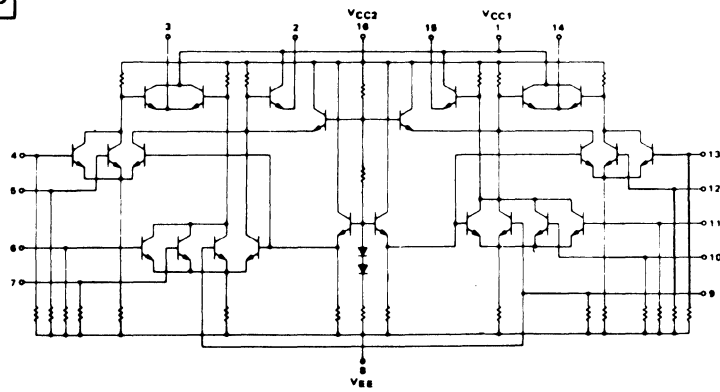
G02-164



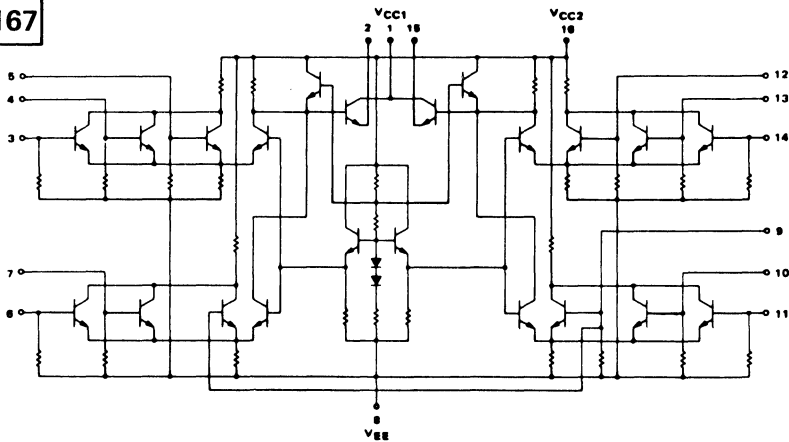
G02-165



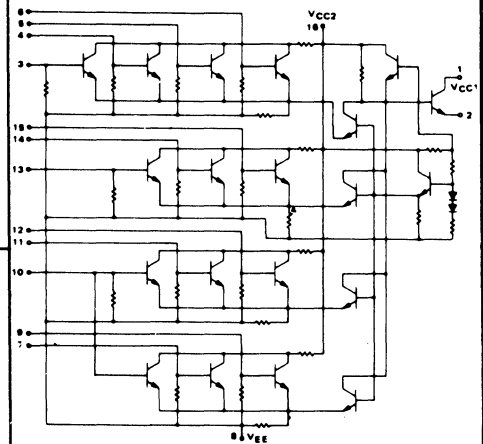
G02-166



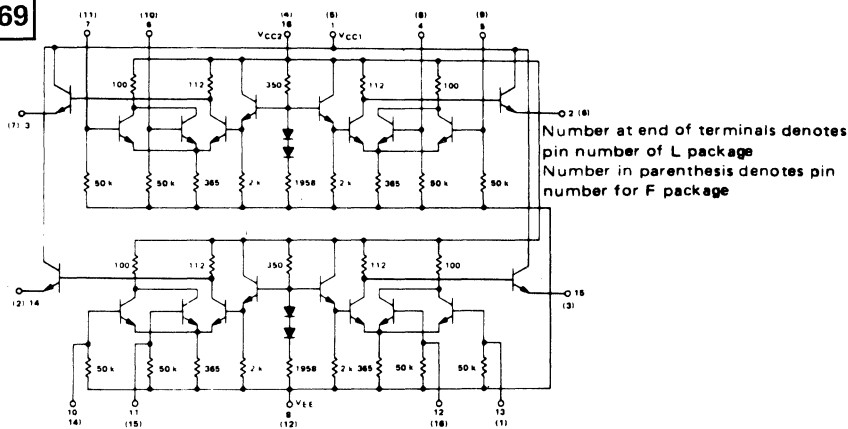
G02-167



G02-168

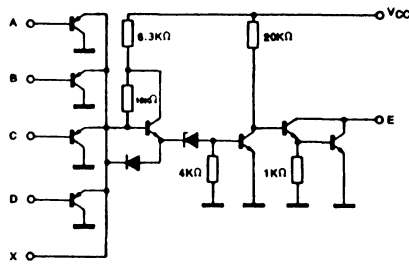


G02-169



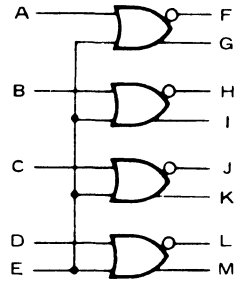
29. LOGIC/BLOCK DRAWINGS

G02-177



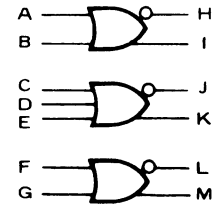
CKT	A	B	C	D	X	E	VCC	GND
G02-177	1	1	2	4	5	3	6	14
	2	9	10	12	13	11	8	

G02-178



A	B	C	D	E	F	G	H	I	J	K	L	M
G02-178	4	7	10	13	12	2	5	3	6	14	11	15
G02-178a	9	10	14	15	11	7	8	5	6	3	2	1

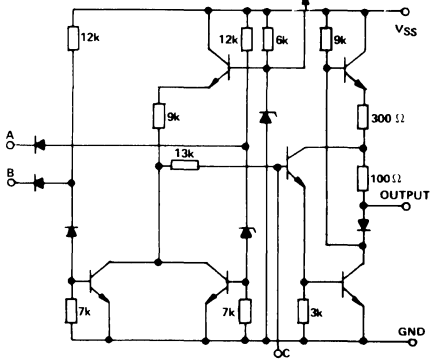
G02-179



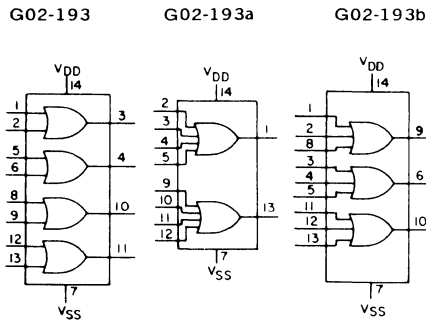
A	B	C	D	E	F	G	H	I	J	K	L	M
G02-179	4	5	9	10	11	13	12	3	2	6	7	14
G02-179a	9	10	1	15	16	11	14	7	8	3	2	5

G02-188

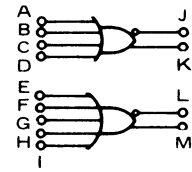
CKT	A	B	C	OUTPUT	VSS	GND
G02-188	1	2	3	4	16	8
	3	9	11	7		
	4	13	14	15		



G02-193



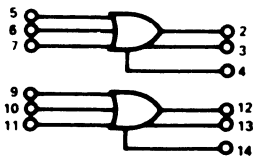
G02-194



VCC1 = 1, VCC2 = 16, VEE = 8
POSITIVE LOGIC: HIGH LEVEL = '1'

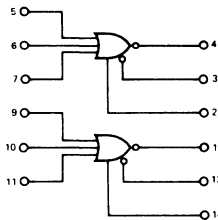
A	B	C	D	E	F	G	H	I	J	K	L	M
G02-194	4	5	6	7	9	10	11	12	13	3	2	14
G02-194a	14	15	16	1	7	8	9	10	11	3	2	5

G02-195



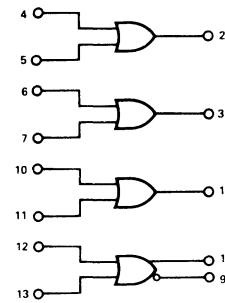
VCC1 = 1, 15, VCC2 = 16, VEE = 8
POSITIVE LOGIC: HIGH LEVEL = '1'

G02-196



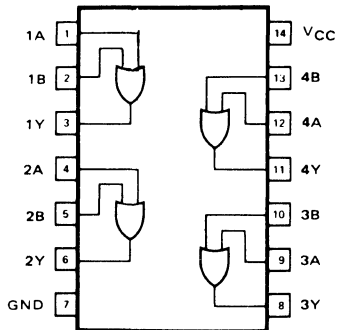
VCC1 = 1, 15, VCC2 = 16, VEE = 8
POSITIVE LOGIC: HIGH LEVEL = '1'

G02-197



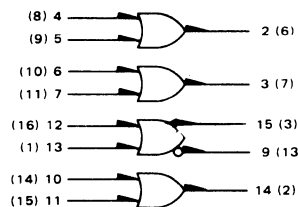
VCC1 = 1, VCC2 = 16, VEE = 8
Positive Logic: High Level = "1"

G02-198



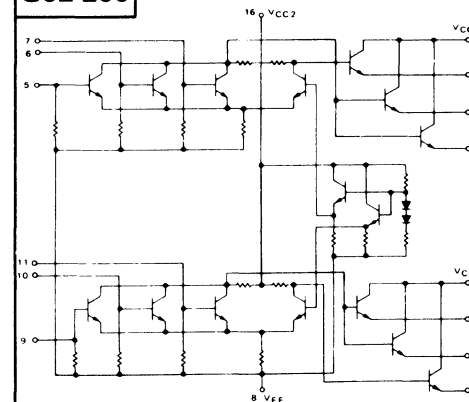
positive logic: Y = A+B

G02-199



VCC1 = Pin 1 (5)
VCC2 = Pin 16 (4)
VEE = Pin 8 (12)
() = FLAT PACK

G02-200



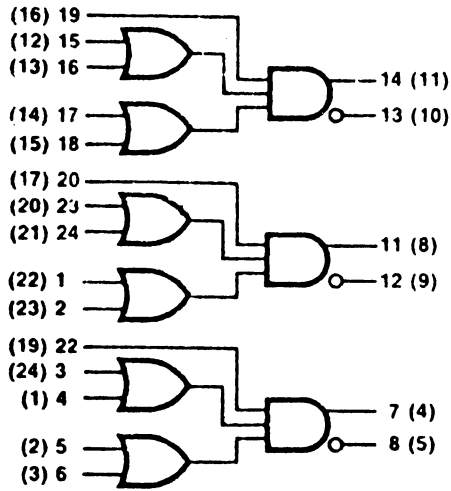
29. LOGIC/BLOCK DRAWINGS

<p>G02-204</p> <p>V_{CC1} = PIN 1 (5) V_{CC2} = PIN 16 (4) V_{EE} = PIN 8 (12) () = FLATPACK</p>	<p>G02-205</p> <p>V_{CC1} = PIN 1 (5) V_{CC2} = PIN 16 (4) V_{EE} = PIN 8 (12) () = FLATPACK</p>	<p>G02-206</p> <p>V_{CC1} = PIN 1 (5) V_{CC2} = PIN 16 (4) V_{EE} = PIN 8 (12) () = FLATPACK</p>
<p>G02-207</p> <p>V_{CC1} = 1,15 (5,3) V_{CC2} = 16 (4) V_{EE} = 8 (12) () = FLATPACK</p>	<p>G02-208</p> <p>V_{CC1} = PIN 1 (5) V_{CC2} = PIN 16 (4) V_{EE} = PIN 8 (12) () = FLATPACK</p>	<p>G02-209</p> <p>V_{CC1} = PIN 1 (5) V_{CC2} = PIN 16 (4) V_{EE} = PIN 8 (12) () = FLATPACK</p>
<p>G02-210</p> <p>V_{CC1} = PIN 1 (5) V_{CC2} = PIN 16 (4) V_{EE} = PIN 8 (12) () = FLATPACK</p>	<p>G02-211</p> <p>V_{CC1} = PIN 1 (5) V_{CC2} = PIN 16 (4) V_{EE} = PIN 8 (12) () = FLATPACK</p>	<p>G02-212</p> <p>V_{CC1} = 1 V_{CC2} = 16 V_{EE} = 8</p>
<p>G02-213</p> <p>V_{CC1} = 1 V_{CC2} = 16 V_{EE} = 8</p>	<p>G02-214</p> <p>V_{CC} = PIN 9 (6) V_{CCA} = PIN 10 (7) V_{EE} = PIN 21 (18) () = DUAL IN LINE</p>	<p>G02-215</p> <p>V_{CC} = PIN 9 (6) V_{CCA} = PIN 10 (7) V_{EE} = PIN 21 (18) () = DUAL IN LINE</p>

29. LOGIC/BLOCK DRAWINGS

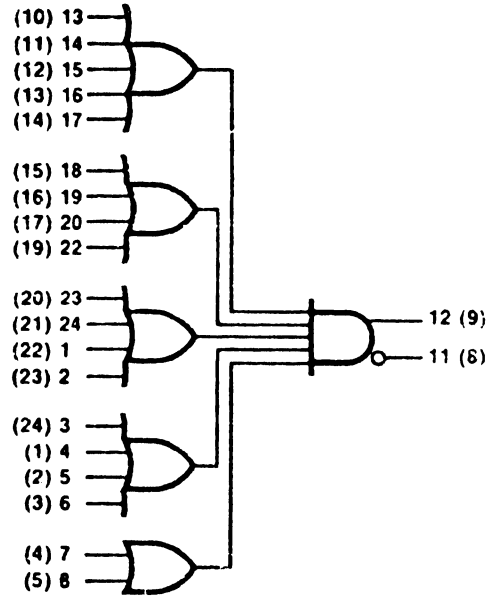
G02-216

V_{CC} = Pin 9(6)
 V_{CCA} = Pin 10(7)
 V_{EE} = Pin 21(8)
 () = DUAL IN LINE

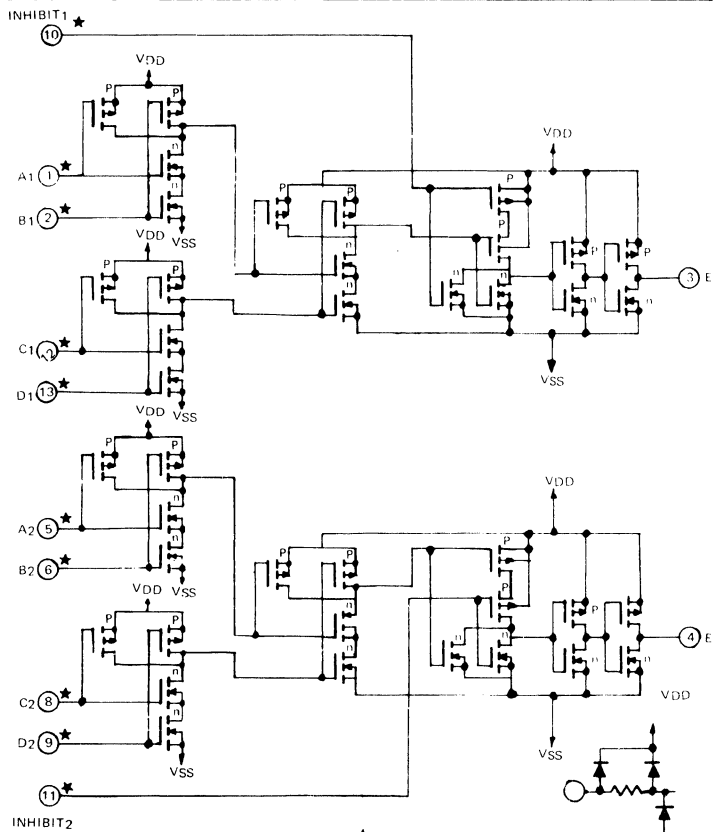


G02-217

V_{CC} = Pin 9(6)
 V_{CCA} = Pin 10(7)
 V_{EE} = Pin 21(18)
 () @ DUAL IN LINE



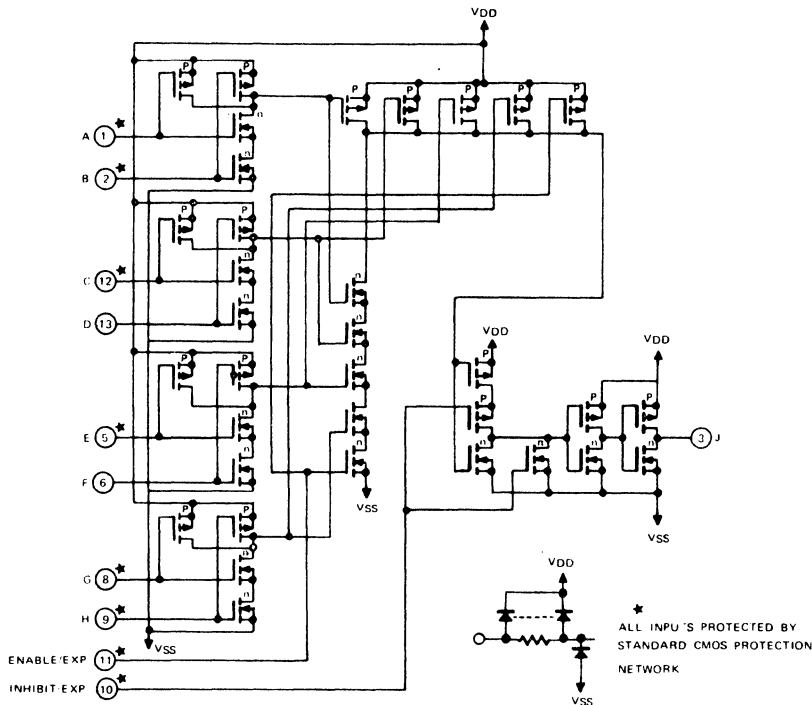
G02-223



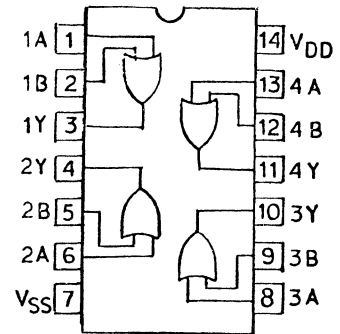
★ ALL INPUTS PROTECTED BY STANDARD CMOS PROTECTION NETWORK

29. LOGIC/BLOCK DRAWINGS

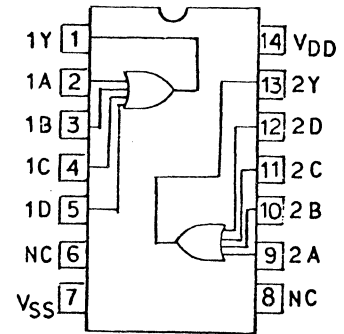
G02-224



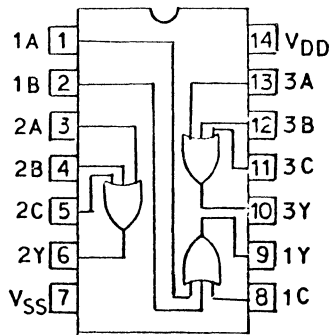
G02-227



G02-228

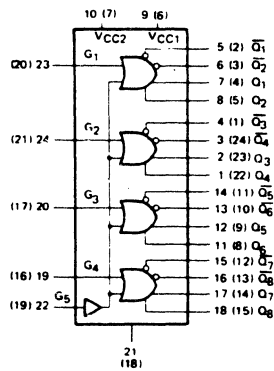


G02-229

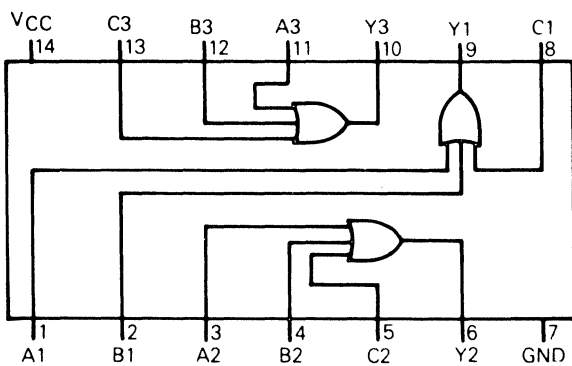


G02-230

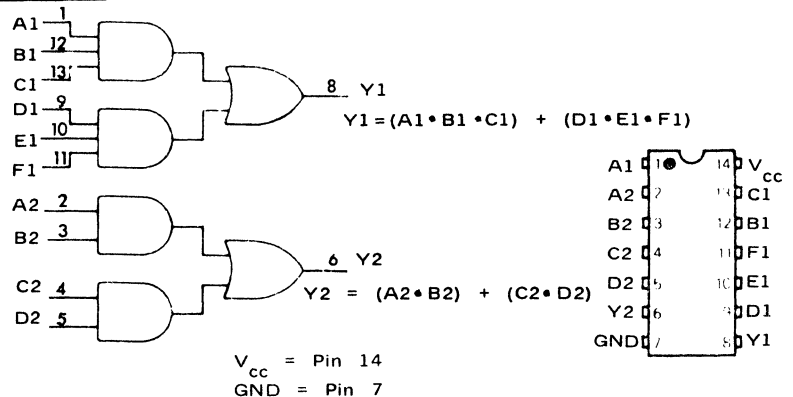
Pin connections for flat pack and in () for SLIM DIP packages.



G02-231



G02-232



29. LOGIC/BLOCK DRAWINGS

G02-233

J OR N PACKAGE

Vcc 6B 6A 6Y 5B 5A 5Y 4B 4A 4Y

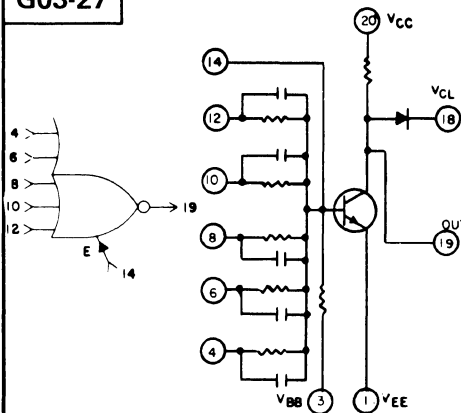
20 19 18 17 16 15 14 13 12 11

POSITIVE LOGIC: $Y=A+B$

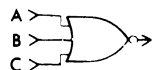
1 2 3 4 5 6 7 8 9 10

1A 1B 1Y 2A 2B 2Y 3A 3B 3Y GND

G03-27

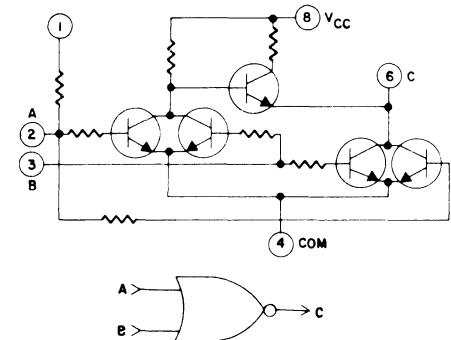


G03-29

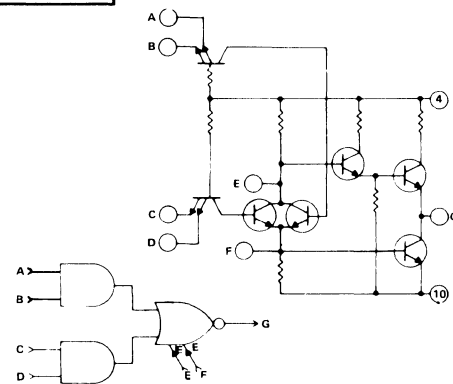


CKT NO	A	B	C	D
1	9	8	7	10
2	5	4	3	2

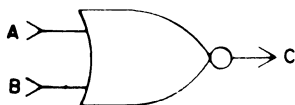
G03-36



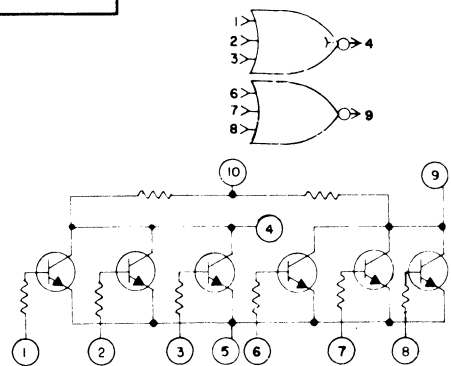
G03-58



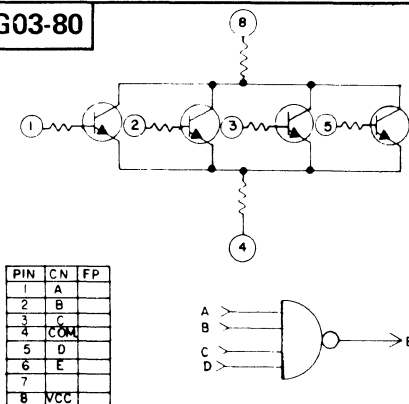
G03-66



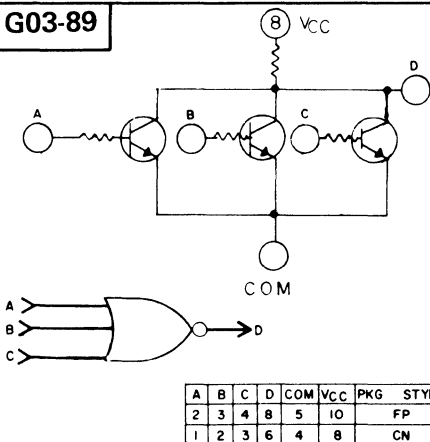
G03-77



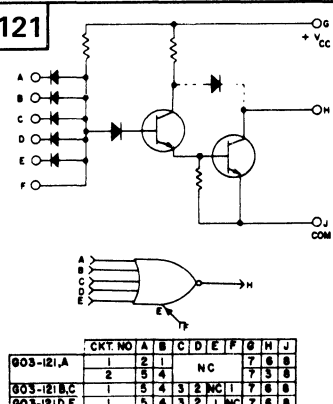
G03-80



G03-89



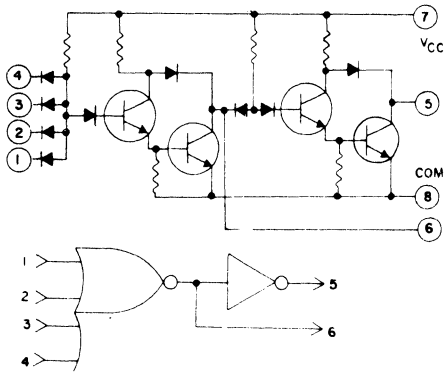
G03-121



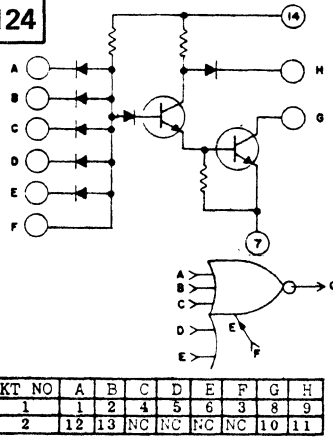
NOTE: G03121A, C & E INCLUDE DOTTED IN PORTION (DIODE)

29. LOGIC/BLOCK DRAWINGS

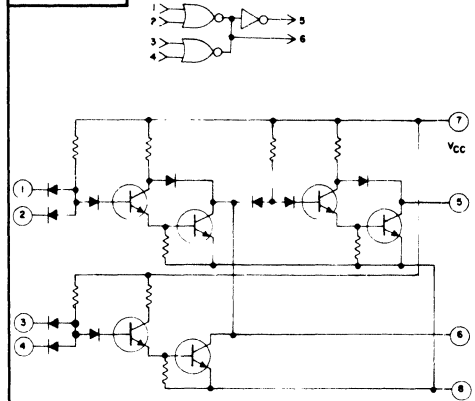
G03-122



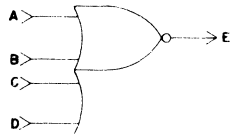
G03-124



G03-126

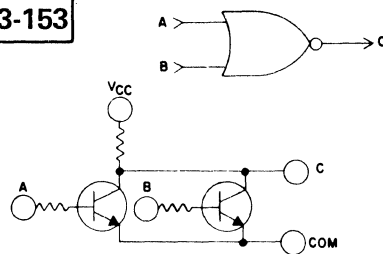


G03-131

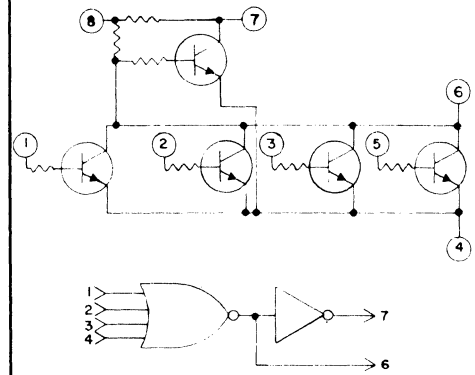


CKT. NO.	A	B	C	D	E
1	E	F			D
2	V	K			N
3	M	N	P		5
4	S	T	U	V	R
5	29	28	27	35	
6	26	25	24	30	
7	23	22	14	20	
8	13	12	11	18	
9	10	9	8	17	
10	7	6	5	15	
11	19	21	NC	1	
12	4	2	NC	3	
1	1	2	3	4	
2	6	7	8	9	
2	13	10		12	
3	8	6		7	
4	4	2		3	
1	1	2	3	4	
2	5	6	8	9	
3	11	12	13	10	
1	2	3	4	5	1
2	9	10	11	12	13
2	1	2	8	9	
3	11	12	13	10	
1	2	3		1	
2	5	6	7	4	
3	10	11		9	
4	13	14	15	12	

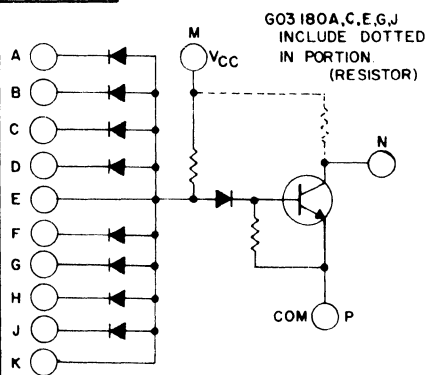
G03-153



G03-154

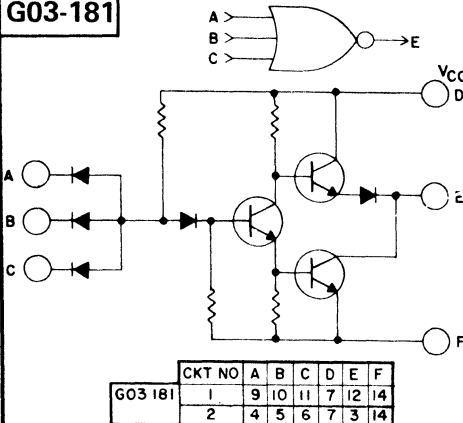


G03-180

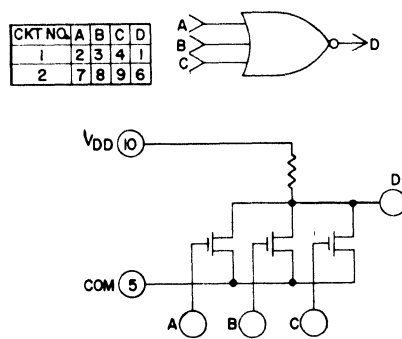


CKT NO	A	B	C	D	E	F	G	H	J	K	M	N	P
G03 180,A	1	2	3	4	5	6	9	10	11	12	13	7	14
G03 180B,C	1	9	10	11	12	13						7	14
	2	2	3	4	5	6						11	14
G03 180D,E	1	12	13									2	
	2	3	4	5								7	11
	3	8	9	10								6	
G03 180F,G	1	12	13	1								2	
	2	3	4	5								7	11
	3	8	9	10								6	
G03 180H,J	1	13	12									1	
	2	5	6									8	
	3	2	3									11	14
	4	9	10									4	

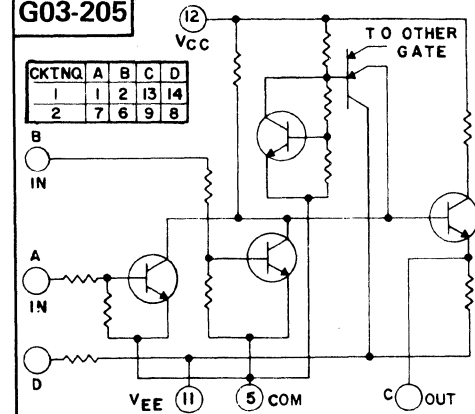
G03-181



G03-202

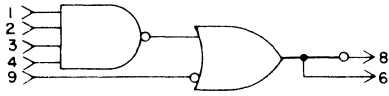


G03-205

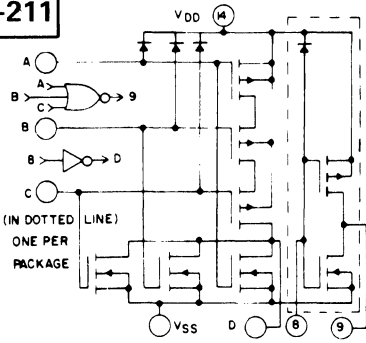


29. LOGIC/BLOCK DRAWINGS

G03-210



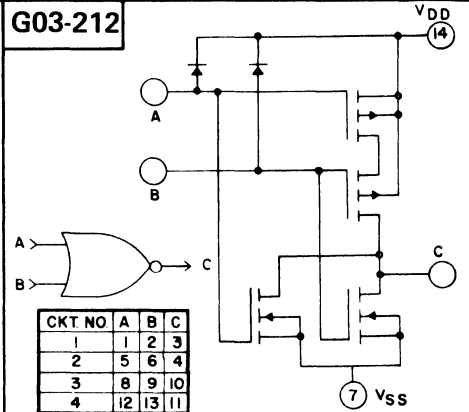
G03-211



CKT NO.	A	B	C	D
1	3	4	5	6
2	11	12	13	10

G03-211a - DELETE DIODES AND CONNECTIONS

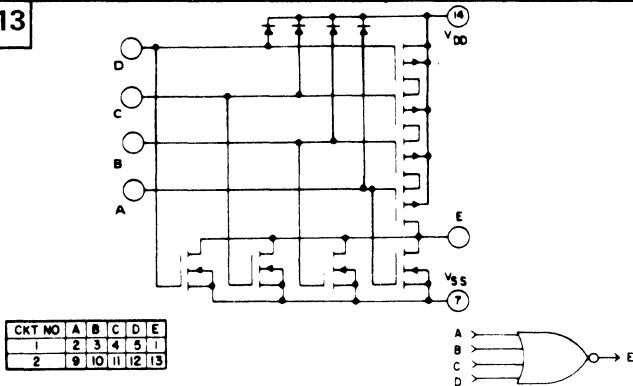
G03-212



CKT NO.	A	B	C
1	1	2	3
2	5	6	4
3	8	9	10
4	12	13	11

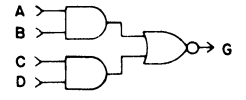
G03-212a - DELETE DIODES AND CONNECTIONS

G03-213



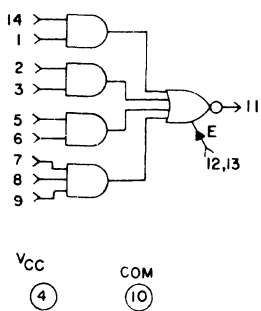
CKT NO.	A	B	C	D	E
1	2	3	4	5	1
2	9	10	11	12	13

G03-218

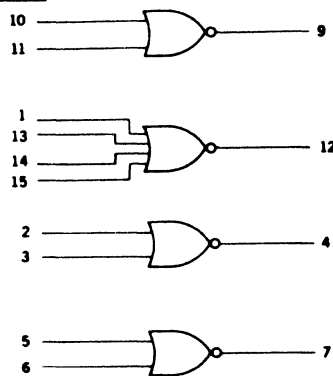


PKG.	CKT.	A	B	C	D	E	F	G	V _{CC}	COM
G03-218	MF	1	13	10	9	12	11	8	14	7
	FF	2	2	3	4	5		6		
G03-218a	FF	1	3	5	13	14	2	1	12	
	FF	2	5	7	8	9		10	4	11
G03-218b	FF	1	14	13	2	3		12		
	MF	2	5	6	8	9		10	4	11
G03-218c	MF	1	1	2	4	5		6		
	FF	2	9	10	12	13		8	14	7
	FF	1	3	5	6			2		
	FF	2	7	8	9			10	4	11
	MF	3	1	13	14			12		
G03-218d	MF	1	1	2	13			12		
	FF	2	3	4	5			6	14	7
	FF	3	9	10	11			8		
	FF	1	2	3				1		
	MF	2	5	6				7		

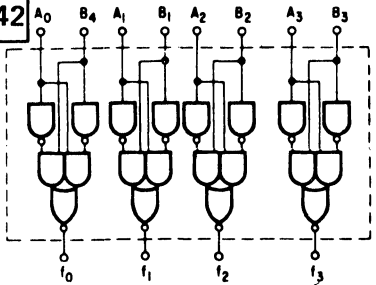
G03-221



G03-237

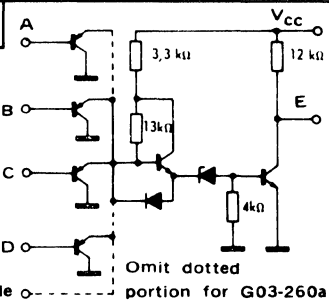


G03-242



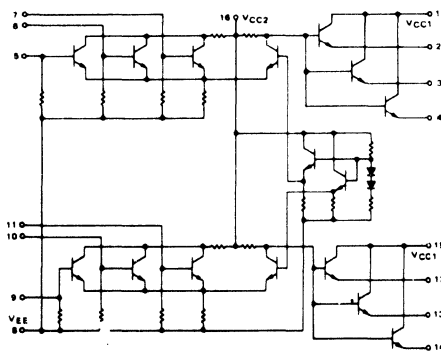
PKG	CKT	A	B	F	VCC	GND	
G03-242	M	1	1	2	3	14	7
		2	6	5	4	14	7
		3	8	9	10	14	7
		4	13	12	11	14	7
FF	1	5	6	7	4	11	
	2	10	9	8	4	11	
	3	12	13	14	4	11	
	4	3	2	1	4	11	

G03-260

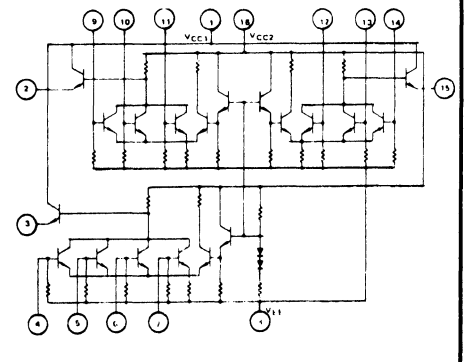


CKT NO.	A	B	C	D	E	NODE	VCC	GND
G03-260	1	2	4	5	6	3	14	7
	13	12	10	9	8	11	14	7
G03-260a	1	2			3		14	7
	4	5			6		14	7
	9	10			8		14	7
	12	13			11		14	7

G03-263

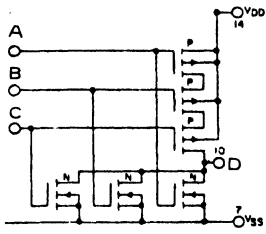


G03-265



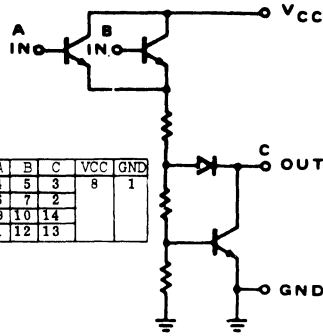
29. LOGIC/BLOCK DRAWINGS

G03-266



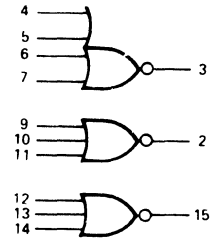
CKT	A	B	C	D
1	3	4	5	6
2	1	2	8	9
3	11	12	13	10

G03-270

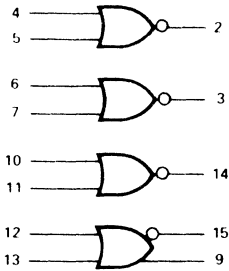


CKT	A	B	C	VCC	GND
1	4	5	3	8	1
2	6	7	2		
3	9	10	14		
4	11	12	13		

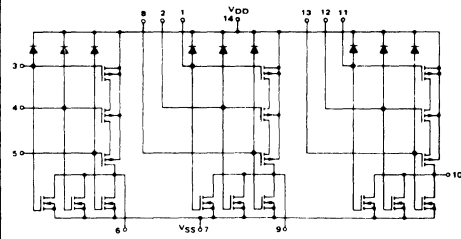
G03-271



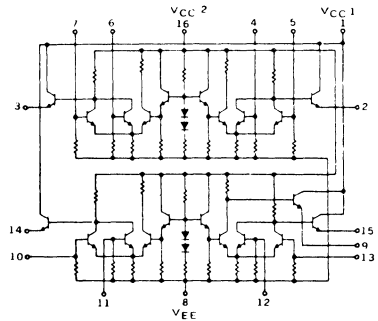
G03-272



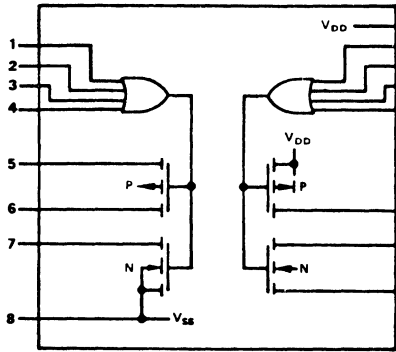
G03-276



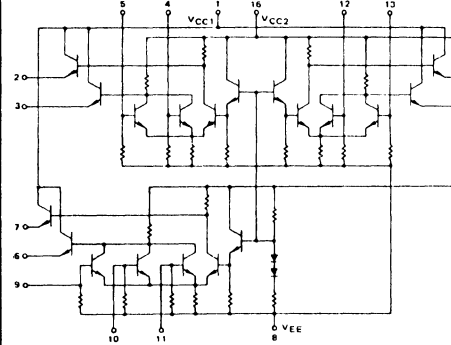
G03-277



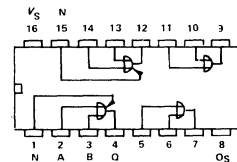
G03-278



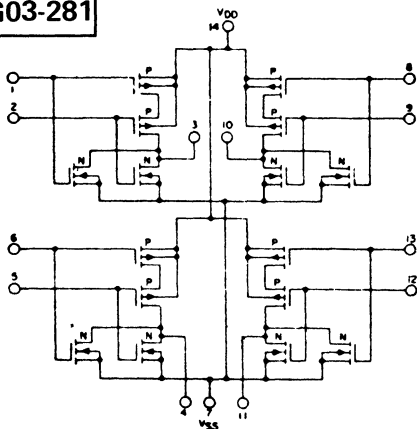
G03-279



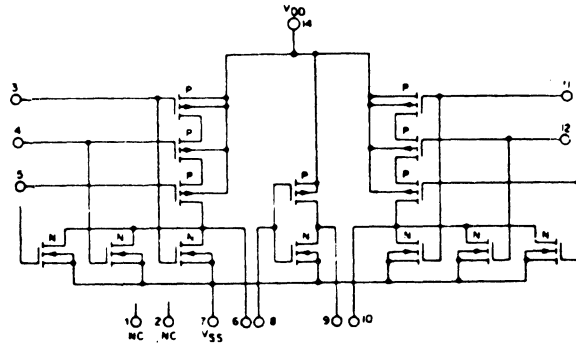
G03-280



G03-281

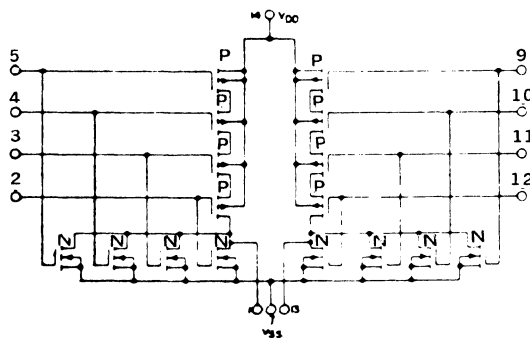


G03-282



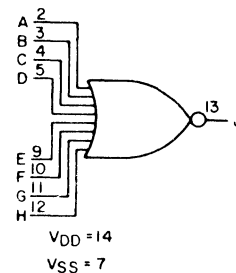
29. LOGIC/BLOCK DRAWINGS

G03-283

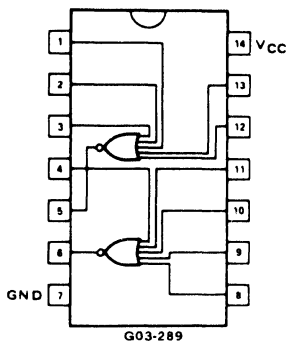
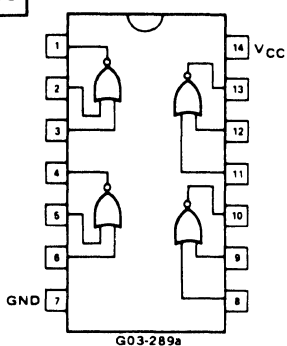


G03-288

G03-288a — Pin 1 is OR output

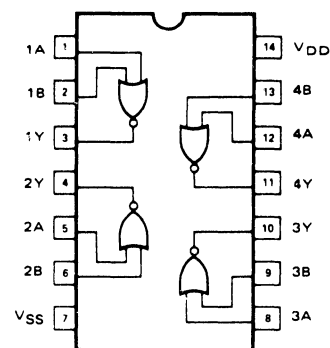


G03-289

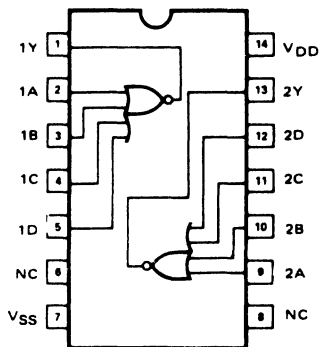


THIS PORTION OF THE SCHEMATIC WITHIN THE DASHED LINES IS REPEATED FOR EACH ADDITIONAL INPUT OF G03-289, AND THE 0.9 #kΩ RESISTOR IS CHANGED TO 0.6 kΩ.

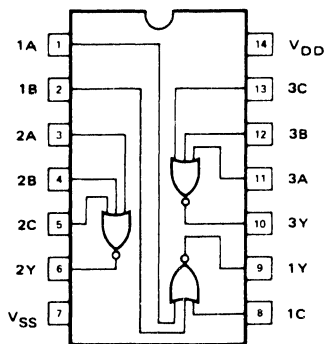
G03-290



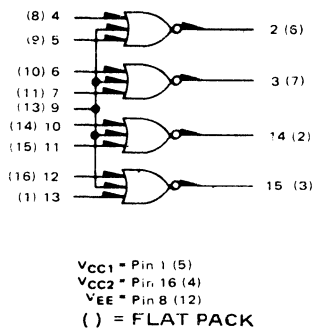
G03-291



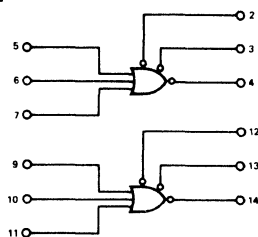
G03-292



G03-293

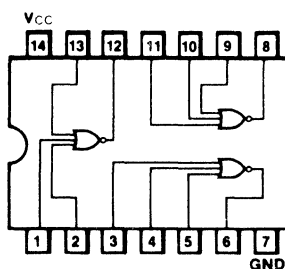


G03-294

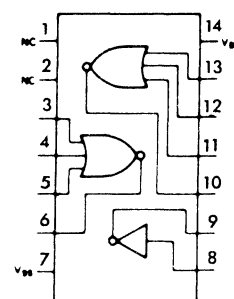


V_{CC1} = 1, 15, V_{CC2} = 16, V_{EE} = 8

G03-295

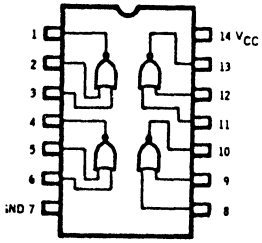


G03-296

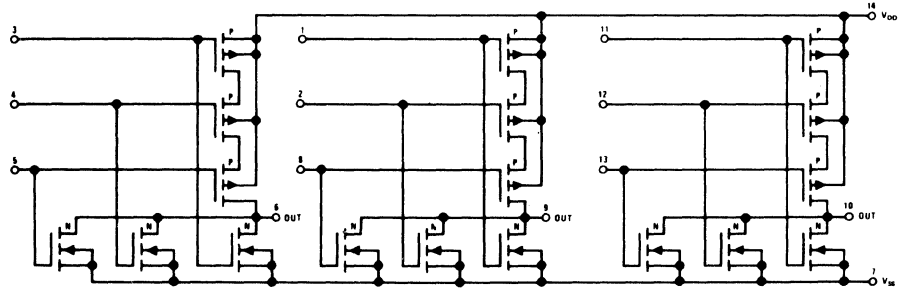


29. LOGIC/BLOCK DRAWINGS

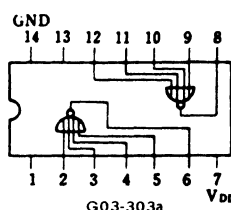
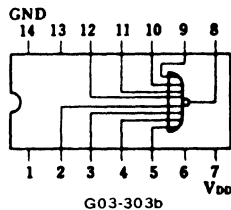
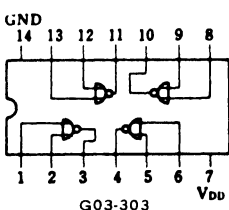
G03-297



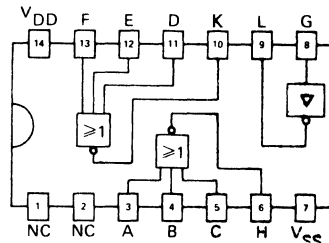
G03-300



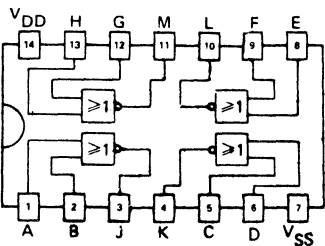
G03-303



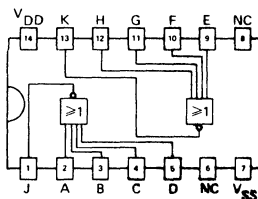
G03-305



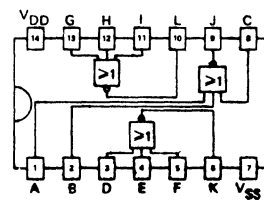
G03-306



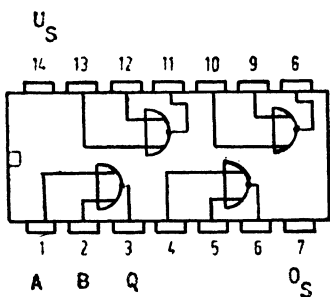
G03-307



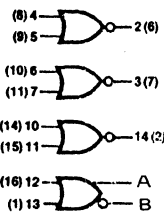
G03-308



G03-309

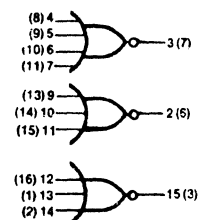


G03-310



V_{CC1} = PIN 1 (5) G03-310 : A= 9 (13)
 V_{CC2} = PIN 16 (4) B=15 (3)
 V_{EE} = PIN 8 (12) G03-310a: A=15 (3)
 () = FLATPACK B= 9 (13)

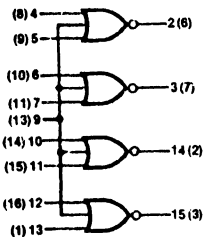
G03-311



V_{CC1} = PIN 1 (5)
 V_{CC2} = PIN 16 (4)
 V_{EE} = PIN 8 (12)
 () = FLATPACK

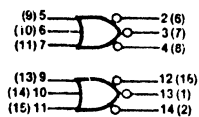
29. LOGIC/BLOCK DRAWINGS

G03-312



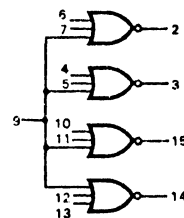
V_{CC}1 = PIN 1 (5)
 V_{CC}2 = PIN 16 (4)
 V_{EE} = PIN 8 (12)
 () = FLATPACK

G03-313



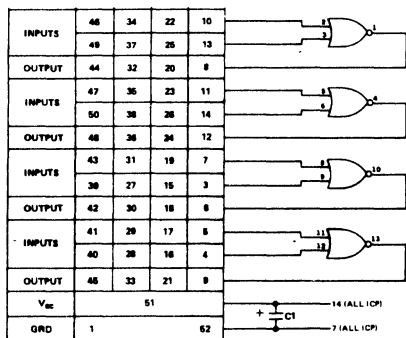
V_{CC}1 = 1, 15 (5,3)
 V_{CC}2 = 16 (4)
 V_{EE} = 8 (12)
 () = FLATPACK

G03-314

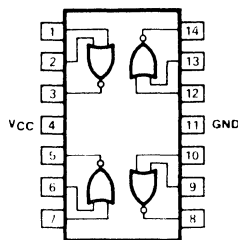


V_{CC}1 = 1
 V_{CC}2 = 16
 V_{EE} = 8

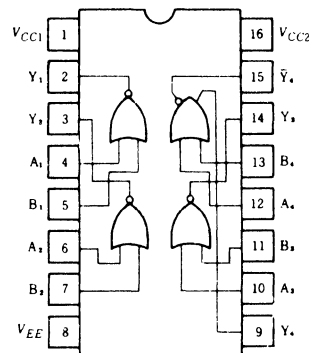
G03-315



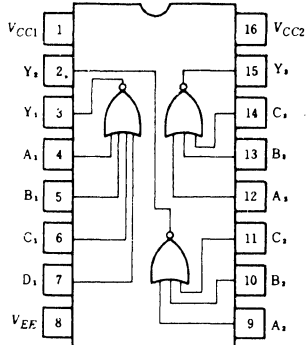
G03-318



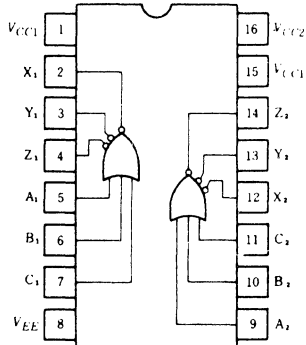
G03-322



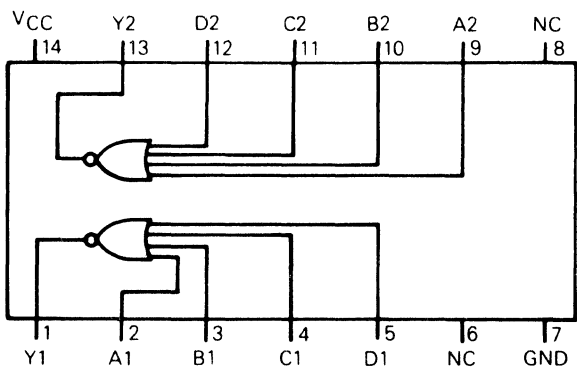
G03-323



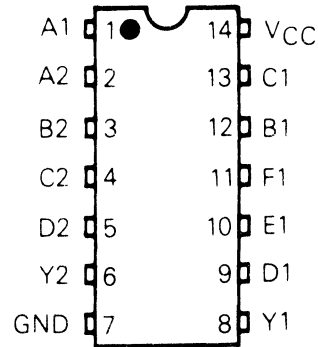
G03-324



G03-325

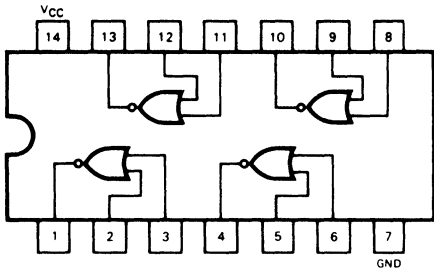


G03-326

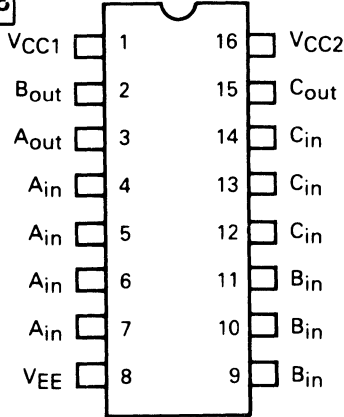


29. LOGIC/BLOCK DRAWINGS

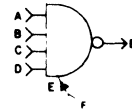
G03-327



G03-328

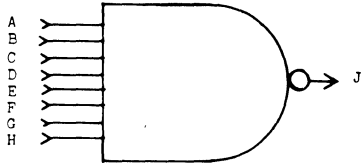


G04-1



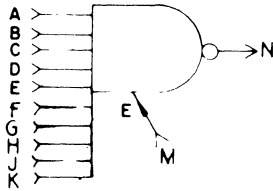
CKT NO	A	B	C	D	E	F
G04-1D	1	8	J	H	6	7
	2	5	D	C	3	4
	3	14	R	P	12	13
	4	11	L	K	9	10
	5	20	X	W	18	19
	6	17	T	S	15	16
G04-1E	1	1	2	4	5	3
	2	13	12	10	9	11

G04-3



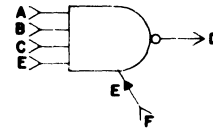
CKT. No.	A	B	C	D	E	F	G	H	J	VCC	GND	
G04-3m	1	44	46						49	51	1,52	
	2	48	47						50	51	1,52	
	3	39	42	43					43	51	1,52	
	4	40	45						41	51	1,52	
	5	32	34						37	51	1,52	
	6	36	35						38	51	1,52	
	7	27	30						31	51	1,52	
	8	28	33						29	51	1,52	
	9	20	22						25	51	1,52	
	10	24	23						26	51	1,52	
	11	15	18						19	51	1,52	
	12	16	21						17	51	1,52	
	13	8	10						13	51	1,52	
	14	12	11						14	51	1,52	
	15	3	8						7	51	1,52	
	16	4	9						5	51	1,52	
G04-3aw	1	2	3	4	5				1	14	7	
	2	9	10	11	12				13	14	7	
G04-3ax	1	1	2						3	14	7	
	2	5	6						4	14	7	
G04-3bb	1	8	9						10	14	7	
	2	12	13						11	14	7	
G04-3be	1	1	2	3	4	10	11	12	13	8	14	7
	2	6	7	8	9	10	11	12	13	14	7	

G04-27



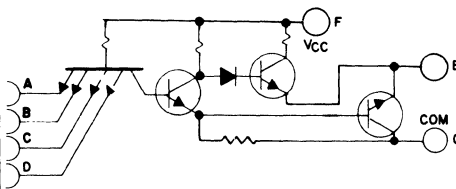
CKT NO	A	B	C	D	E	F	G	H	J	K	M	N	VCC	COM
G04-27k	1	1	2	3	4	5						6	14	7
	2	9	10	11	12	13						8	14	7
G04-27m	1	2	4	5	9	10	12	13			11	8	14	7
	2	1	2	3	4	5	9	10	11	12	13	8	14	7
G04-27n	1	1	2	4	5						3	6	14	7
	2	9	10	12	13						11	8	14	7

G04-70



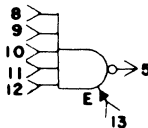
CKT NO	PACKAGE	A	B	C	D	E	F	VAA	COM
1	MP	2	3	4	1	5	6	7	14
2		12	11	10	13	9	8	7	14

G04-71

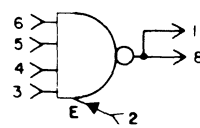


CKT NO	A	B	C	D	E	F	G
G04-71	1	1	2	3	13	12	4
	2	5	6	7	9	11	10

G04-80

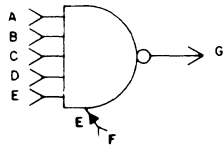


G04-81



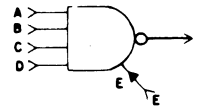
29. LOGIC/BLOCK DRAWINGS

G04-89



	CKT NO	A	B	C	D	E	F	G	V _{CC}	COM
G04-89	1	6	7	8	9	NC	5	10	4	11
	2	1	2	13	14	NC	3	12		
G04-89a, d	1	3	5	6				2	4	11
	2	7	8	9				10		
	3	1	13	14				12		
G04-89b, c	1	2	3			NC		1	4	11
	2	5	6					7		
	3	8	9					10		
G04-89e	1	3	5					2	4	11
	2	8	9		NC			6	2	
	3	13	14					11		
G04-89f	1	5	6	7	8	9	NC	10	4	11
	2	1	2	3	13	14	NC	12		
G04-89g	1	3	4			NC			R	1
	2	6	7					5		
	3	12	13					14		
G04-89h	1	3	4	5				2	R	1
	2	7	9	10		NC		6		
	3	11	12	13				14		
G04-89j	1	3	4	5	6	NC	7	2	R	1
	2	13	12	11	10	NC	9	14		
G04-89k	1	13	12	11	10	9	NC	8	14	7
	2	1	2	3	4	5	NC	6		
G04-89m	1	3						2	R	1
	2	5						4		
	3	7						6		
	4	9						10		
	5	11						12		
	6	13						14		

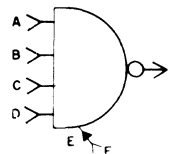
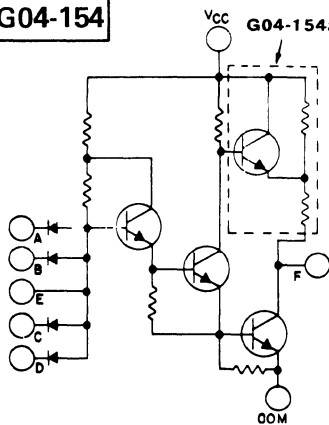
G04-92



	CKT NO	A	B	C	D	E	F	V _{AA}	COM	TLIN#
G04-92	1	1	2	3	NC	NC	4	10	5	CN
	2	9	8	NC	NC	7	6	19	5	FP & MP
G04-92a	1	1	2	4	5	3	6	14	7	
	2	13	12	10	9	11	8	14	7	
	3						3	14	7	
G04-92b	2	4	3		NC		6	14	7	FP & MP
	3	9	10				8	14	7	
	4	12	13				11	14	7	
	1	2	3				4	10	5	
G04-92c	2	7	8				6	10	5	CN
	3	1					9	10	5	
	1	3	4	5			6	14	7	
G04-92d	2	9	10	11			8	14	7	FP & MP
	3	2	1	13			12	14	7	
	1	1	2				3	12	6	
	2	4					5	12	6	
	4	11	10				9	12	6	CN
	4	8					7	12	6	
G04-92e	1	1	2				3	14	7	FP
	2	4	5				6	14	7	
	3	9	10				8	14	7	
G04-92f	1	12	13				11	14	7	CN
	1	1	2	3	4		5	12	6	
	2	11	9	8	10	7	12	6		
G04-92g	1	1	2				11	12	6	CN
	2	3	4				5	12	6	
	3	10	9	8			7	12	6	
G04-92h	1	1	2	3	4		5	14	7	FP
	2	13	12	10	9	11	8			
	1	1	2				3			
	2	4	5	6			7	14	10	
G04-92j	3	12	11	9			8			
	1	13	1	2			12			
	2	3	4	5			6	14	7	
	3	9	10	11			8			

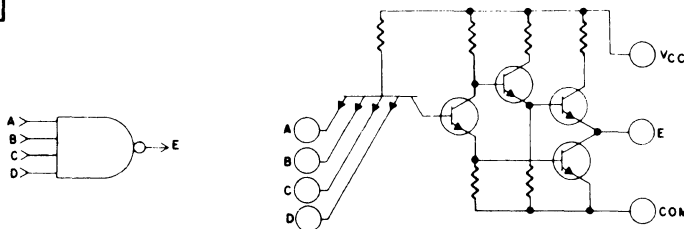
G04-154

G04-154a, c OR G04-154f ONLY.



	CKT TERM	A	B	C	D	E	F	V _{CC}	COM	PKG
G04-154	1	1	2	3	4	5	12	6		CN, FP
	2	11	10	9	8		7			OR MP
G04-154a	1	1	2	4	5	3	6	14	7	
	2	13	12	10	9	11	8			
G04-154b	1	1	2	3		7	4	10	5	
	2	8	9			7	6			
G04-154c	1	1	2	4	5	3	6	14	7	CN, FP
	2	9	10	12	13	11	8			OR MP
G04-154d	1	1	2	4	5	3	6	14	7	FP
	2	9	10	12	13	11	8			MP
G04-154e	1	1	2				3	14	7	
	2	5	6				4			
G04-154f	3	8	9				10			
	4	12	13				11			

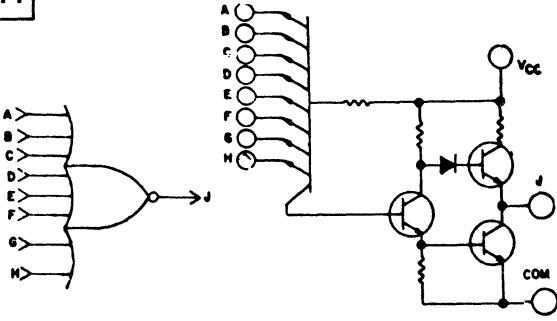
G04-191



CKT NO	TERMINALS					V _{CC}	COM	
	A	B	C	D	E			
G04-191	1	1	2	3	13	12	4	10
	2	5	6	7	9	11	4	10
G04-191a	1	1	2	3		5	4	10
	2	6	7	8		9	4	10
	3	12	13	11		14	4	10

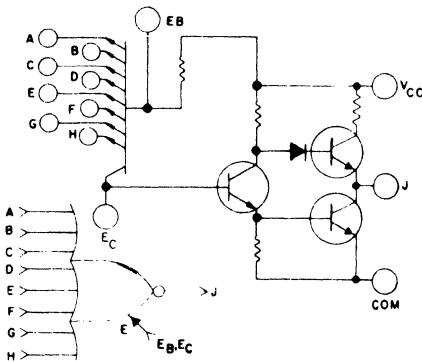
29. LOGIC/BLOCK DRAWINGS

G04-211



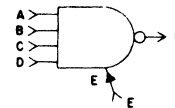
	A	B	C	D	E	F	G	H	J	VCC	COM	OUTLINE
G04211	7	8	9	10	1	2	3	4	6	12	5	CN
	13	1	2	3	5	6	7	9	12	4	10	TOP
A	A	B	C	E	F	G	I	N	L	D	J	

G04-212



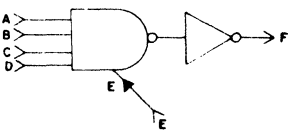
CKT	A	B	C	D	E	F	G	H	J	E _B	E _C	VCC	COM	OUTLINE	
G04212	8	9	10	NC	11	1	2	3	6	4	7	12	5	CN	
G04212A	14	1	2	8	3	5	6	7	12	9	13	4	10	FP	
G04212B	7	8	9	4	10	1	2	3	6			12	5	CN	
G04212C	13	1	2	9	3	5	6	7	12			4	10	FP	
G04212D	1	2	3	13	5	6		9	11			4	10		
G04212E	2	3						6		12	5			CN	
G04212F	5	6						11		4	10			FP	
G04212G	1	1	2	3				5		4	10				
G04212H	2	6	7	8				9		4	10				
	3	11	12	13				14		4	10				
G04212I	1	1	2					3		4	10				
G04212J	2	5	6					7		4	10				
G04212K	3	8	9					11		4	10				
G04212L	4	12	13					14		4	10				
G04212M	1	2	3	5	6	7	9	13	12	4	10	FP	BMP		
G04212N	1	2	3	5	6	7	8	14	12	9	13	4	10	FP	BMP

G04-217



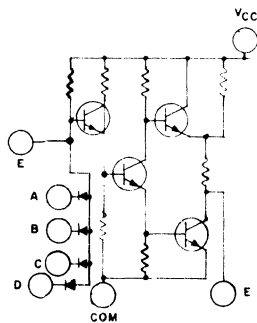
CKT NO	A	B	C	D	E	F
G04217	1	9	10	12	13	11
	2	1	2	4	5	3
G04217A	1	1	2	NC	NC	3
	2	4	5	"	"	6
	3	9	10	"	"	8
	4	12	13	"	"	11
G04217B	1	3	4	5	"	6
	2	9	10	11	"	8
	3	1	2	13	"	12

G04-218



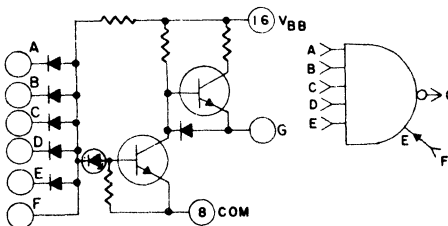
CKT NO	A	B	C	D	E	F
1	1	2	4	5	3	6
2	9	10	12	13	11	8

G04-227



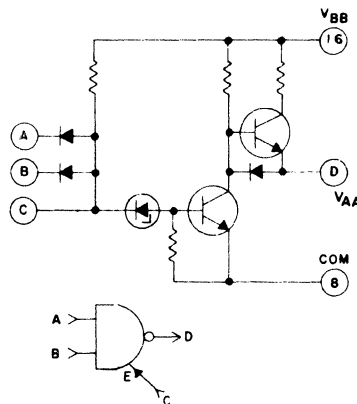
DWG. NO.	CKT NO.	A	B	C	D	E	F	VCC	COM
G04227	1	3	5	6	-	-	2	4	11
	2	7	8	9	-	-	10		
A	1	6	7	8	9	-	10	4	11
	2	1	2	13	14	-	12		
B	1	6	7	8	9	5	10		11
	2	1	2	13	14	3	12	4	
C	1	3	4	5	6	7	2	8	1
	2	13	12	11	10	9	14		
D	1	3	4	-	-	5	2	6	1
	2	6	9	-	-	7	10	8	1
E	1	3	4	5	-	-	2	6	1
	2	7	8	9	-	-	2	6	1

G04-236



CKT NO.	A	B	C	D	E	F	G
1	7	6	5	4	3	2	1
2	9	10	11	12	13	14	15

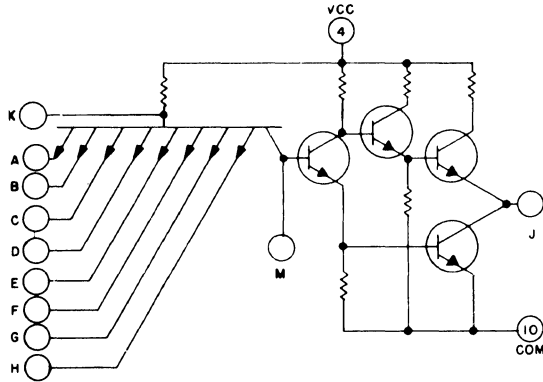
G04-237



CKT NO	A	B	C	D
1	2	3	NC	1
2	7	6	5	4
3	15	14	13	12
4	10	11	NC	9

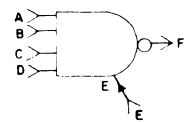
29. LOGIC/BLOCK DRAWINGS

G04-240



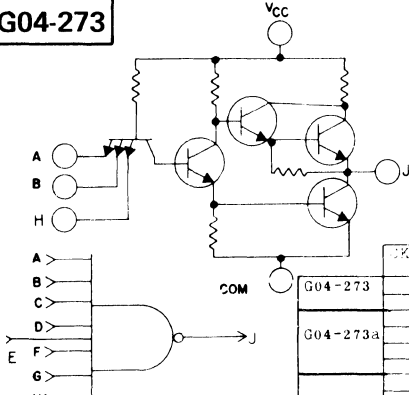
TERM	CKT NO.												
	A	B	C	D	E	F	G	H	J	K	M		
G04240	1	1	2	3	13		NC		12				
	2	5	6	7	9		NC		11				
G04240A	1	1	2	3	5	6	7	9	13	12			
	2	5	6							3			
	3	8	9							7			
	4	12	13							11			
G04240B													
G04240C	1	2	3	5	6	7	8	14	12	9	13		
G04240D	1	1	2	3	5	6	7	9	13	12			
G04240E	1	1	2	3						5			
	2	6	7	8						9			
	3	11	12	13						14			

G04-258



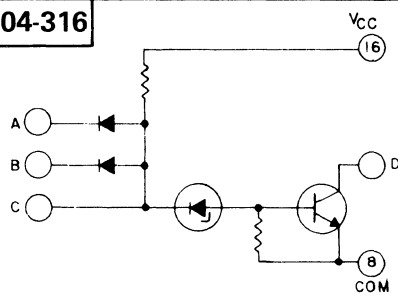
CKT	TERM	A	B	C	D	E	F	V _{AA}	COM
G04258	1	1	2	13	14	3	12	4	11
G04258A	1	6	7	8	9	5	10	4	11
G04258A	2	9	10	12	13	11	8	14	7

G04-273



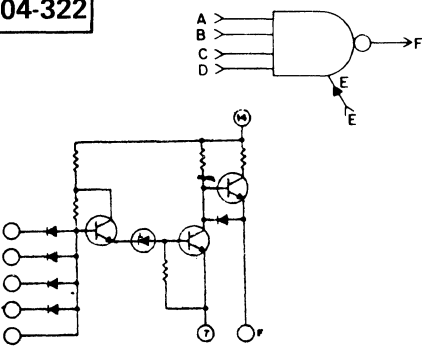
TERM	CKT NO.												
	A	B	C	D	E	F	G	H	J	K	L	M	N
G04-273	1	2	3	5	6	7	8	9	10	12	4	11	13
	1	1	2	3	4	5	6	11	12	8	14	7	10
G04-273a	1	1	12	13	14					2	4	11	13
	2	6	7	8	9					10	4	11	13
G04-273b	1	2	3	4	5					6	14	7	10
	2	9	10	11	12					13	14	7	10
	3	9	10	12						13	4	11	13
	4	1	2	3	4					9	14	7	10
G04-273c	1	1	2	14						3	4	11	13
	2	6	7	8						5	4	11	13
	3	9	10	12						13	4	11	13
	4	12	13							14	4	11	13
G04-273d	1	2	3							1	14	7	10
	2	5	6							4	14	7	10
	3	8	9							10	14	7	10
	4	11	12							13	14	7	10
G04-273e	1	1	2							3	14	7	10
	2	4	5							6	14	7	10
	3	9	10	11						8	14	7	10
	4	12	13							14	4	11	13
G04-273f	1	1	2	13						12	14	7	10
	2	3	4	5						6	14	7	10
	3	9	10	11						8	14	7	10
	4	1	2	4	5					6	14	7	10
G04-273g	1	1	2							3	14	7	10
	2	9	10	12	13					8	14	7	10
	3	9	10							8	14	7	10
	4	1	2							3	14	7	10
G04-273h	1	1	2							3	14	7	10
	2	4	5							6	14	7	10
	3	9	10							8	14	7	10
	4	12	13							11	14	7	10

G04-316



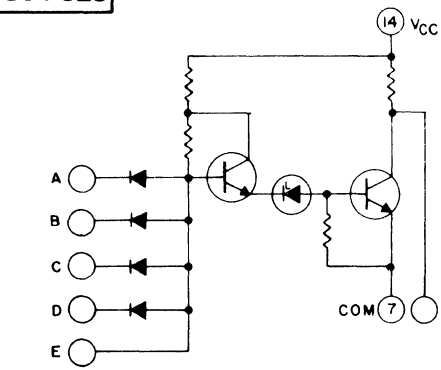
CKT NO.	A	B	C	D
1	7	6	5	4
2	15	14	13	12
3	2	3		1
4	10	11		9

G04-322



CKT NO.	A	B	C	D	E	F
1	1	2	4	5	3	6
2	9	10	12	13	11	8

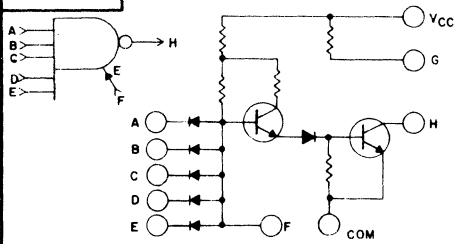
G04-323



TERM	CKT NO.						
	A	B	C	D	E	F	
G04-323	1	1	2	4	5	3	6
	2	9	10	12	13	11	8
G04-323a	1	1	2				3
	2	4	5				6
	3	9	10				8
	4	12	13				11
G04-323b	1	3	4	5			6
	2	9	10	11			8
	3	1	2	13			12

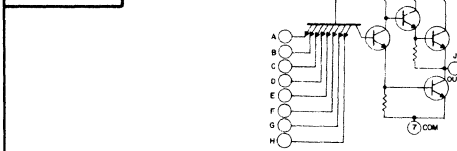
29. LOGIC/BLOCK DRAWINGS

G04-325



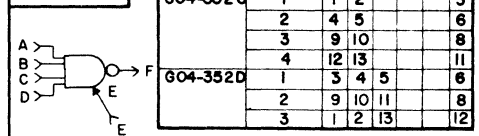
CKT NO	A	B	C	D	E	F	G	H	COM	Vcc
G04-325	1	1	2	4	3	5	6	7	14	
G04-325A	2	10	12	13	11	9	8		11	4
G04-325B	1	1	2	3	4	5	9	10	6	7
G04-325C	1	1	2	3	4	13	12	11	11	4
	2	5	6	7	8	9	10			

G04-345



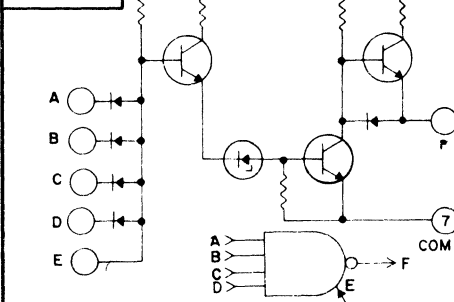
CKT No.	A	B	C	D	E	F	G	H	J
G04-345	1	1	2						3
	2	4	5						6
	3	9	10						11
G04-345a	1	1	2	13					12
	2	3	4	5					6
	3	9	10	11					6
G04-345b	1	2	4	5	13				6
G04-345c	1	10	11	12	13	1	2	3	4
G04-345d	1	1							2
	2	3							4
	3	5							6
	4	9							8
	5	11							10
	6	13							12
G04-345e	1	1	2	4	5				6
	2	9	10	12	13				8

G04-352



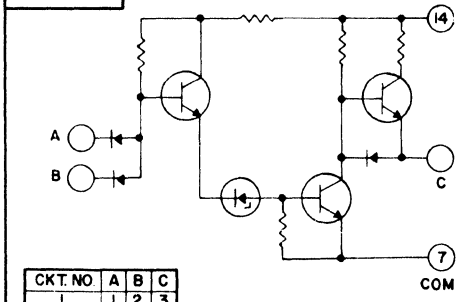
CKT. NO.	A	B	C	D	E	F
G04-352C	1	1	2			3
	2	4	5			6
	3	9	10			8
	4	12	13			11
G04-352D	1	3	4	5		6
	2	9	10	11		8
	3	1	2	13		12

G04-362



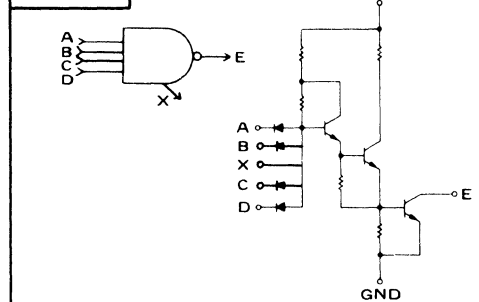
CKT NO	A	B	C	D	E	F
G04-362	1	1	2	4	5	3
	2	9	10	12	13	11
G04-362a	1	3	4	5		6
	2	9	10	11		8
	3	1	2	13		12

G04-364



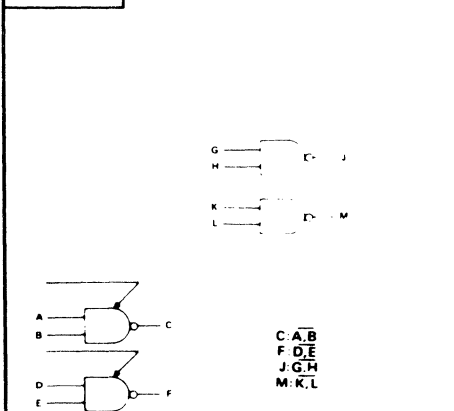
CKT. NO	A	B	C
1	1	2	3
2	4	5	6
3	9	10	8
4	12	13	11

G04-376

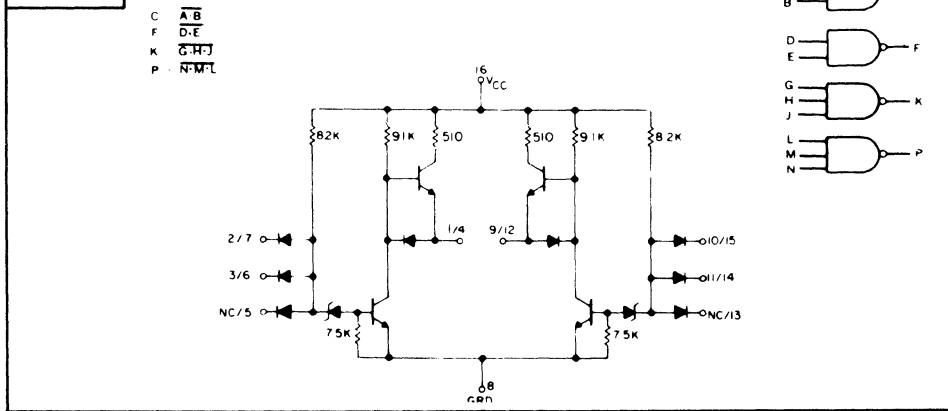


CKT No.	A	B	C	D	E	X	VCC	GND
G04-376	1	1	1	2	3		14	7
	2	5		6	4			
	3	8		9	10			
	4	12		13	11			
G04-376a	1	1	2	4	5	6	3	14
	2	13	12	10	9	11	8	

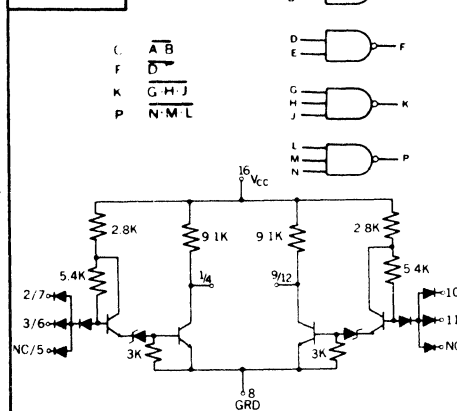
G04-381



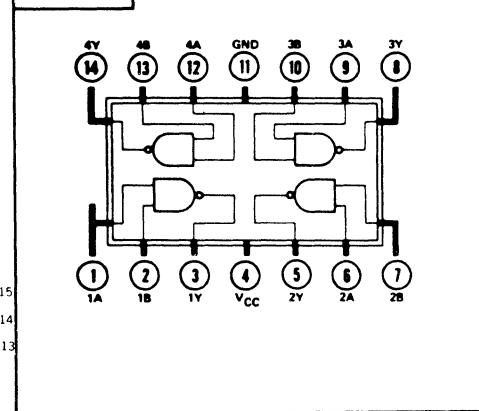
G04-382



G04-383



G04-384



29. LOGIC/BLOCK DRAWINGS

G04-395

VCC

Gnd → Pin 7

CKT	A	B	C	D	E	F	G	VCC
1	1	2	4	3	5	6	14	
2	9	10	12	13	11	8	14	

G04-397

CKT	A	B	C	D
G04-397	1	1	2	3
	2	11	12	13
G04-397a	1	3	4	5
	2	1	2	8
	3	11	12	13
				10

VDD

VSS

NOTE: OMIT DOTTED PORTIONS ON G04-397a

G04-400

CKT	A	B	C	D	E	F	G	H
G04-400	1	3	4				2	8
	2	5	6				7	8
	3	10	11				9	8
	4	12	13				14	8
G04-400a	1	3	4	5	6	7	2	8
	2	10	11	12	13	14	9	8
G04-400b	1	3	4	5			2	8
	2	7	9	10			6	8
	3	11	12	13			14	8
G04-400c	1	3	4				2	8
	2	6	7				5	8
	3	9	10				11	8
	4	12	13				14	8

G04-404

VDD

VSS

G04-416

VCC 14

NO. OF CKTS.	A	B	C	D	E	F	VCC	GND
1	4	5	6	2	1	3	14	7
2	11	12	13	9	8	10		

G04-417

CKT	A	B	C	D	E	F	VCC	COM
G04-417	1	1	2			3	14	7
	2	4	5			6		
	3	9	10			8		
	4	12	13			11		
G04-417a	1	13	1	2		12	14	7
	2	3	4	5		6		
	3	9	10	11		8		
G04-417b	1	1	2	4	5	3	6	14
	2	9	10	12	13	11	8	7

G04-418

VCC

CKT NO.	A	B	C	D	E	F	VCC	GND
1	4	5	6	1	2	3	14	7
2	11	12	13	8	9	10		

G04-428

VCC

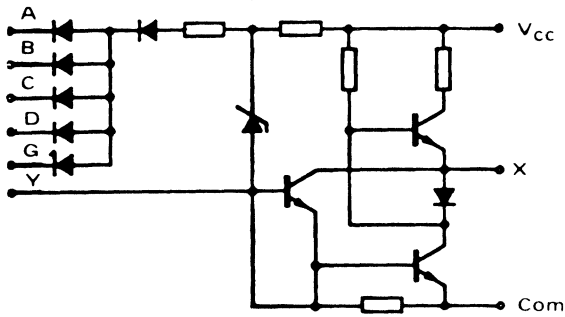
Com

CKT	A	B	Y	X	VCC	COM
G04-428	1	2	3	1	4	8
	2	5	6		7	
	3	11	10		9	
	4	14	13	15	12	
G04-428a	1	2	3		4	8
	2	5	6		7	
	3	11	10		9	
	4	14	13		12	

29. LOGIC/BLOCK DRAWINGS

G04-429

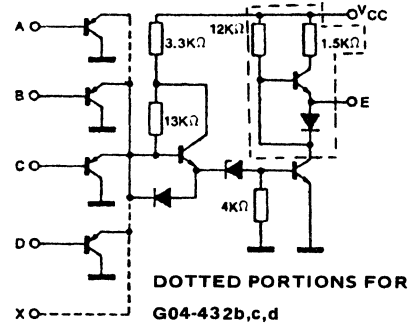
	CKT	A	B	C	D	G	Y	X	VCC	COM
G04-429	1	2	3	4	5	6	7	16	8	
	2	10	11	12	13	14	15	9		
G04-429a	1	2	3	4	5	6	7	16	8	
	2	10	11	12	13	14	9			



G04-432

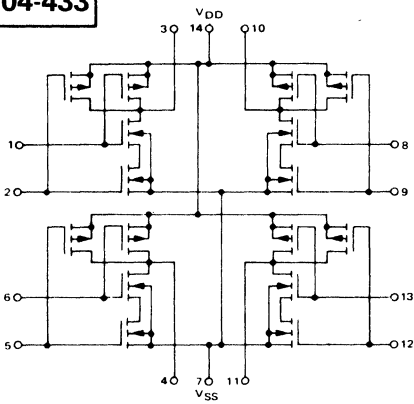
NOTE: OMIT FOR

G04-432c

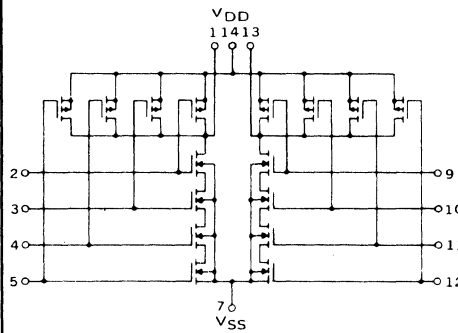


DOTTED PORTIONS FOR
G04-432b,c,d

G04-433

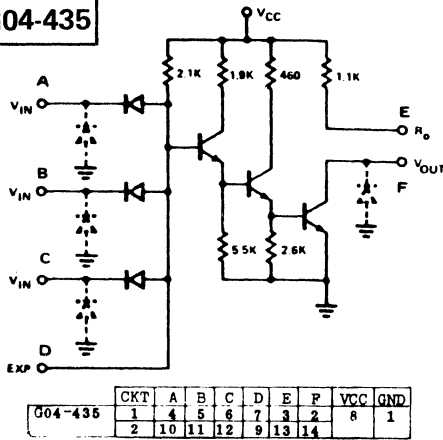


G04-434



	CKT	A	B	C	D	X	E	VCC	GND
G04-432	1	1	2				3	14	7
	2	4	5				6		
	3	9	10				8		
	4	12	13				11		
G04-432a	1	13	1	2			12	14	7
	2	3	4	5			6		
	3	9	10	11			8		
G04-432b	1	1	2	3	4	3	6	14	7
	2	9	10	12	13	11	8		
G04-432c	1	2				1	3	14	7
	2	5				4	6		
	3	9	10				8		
	4	12	13				11		
G04-432d	1	2				1	3	14	7
	2	5				4	6		
	3	9	10				8		
	4	12	13				11		

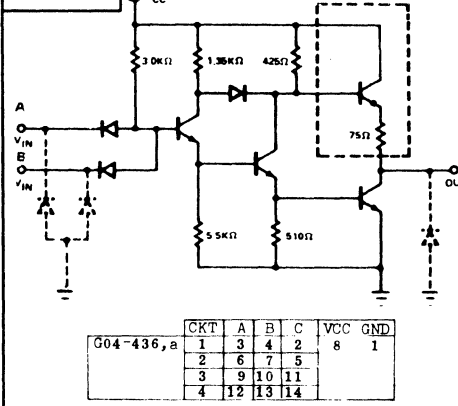
G04-435



	CKT	A	B	C	D	E	F	VCC	GND
G04-435	1	4	5	6	7	3	2	8	1
	2	10	11	12	9	13	14		

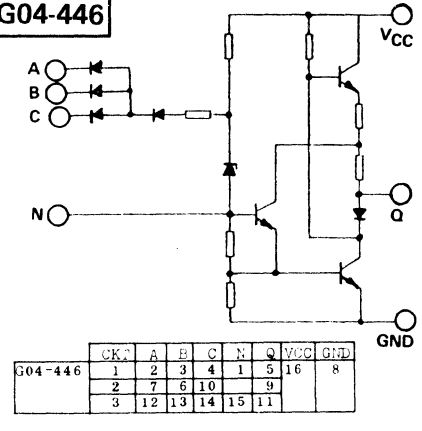
G04-436

NOTE: DELETED ON G04-436



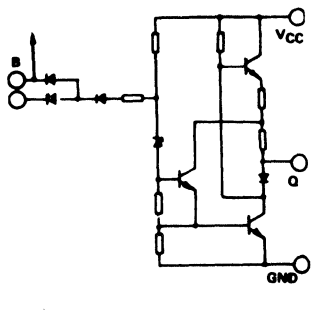
	CKT	A	B	C	VCC	GND
G04-436,a	1	3	4	2	8	1
	2	6	7	5		
	3	9	10	11		
	4	12	13	14		

G04-446



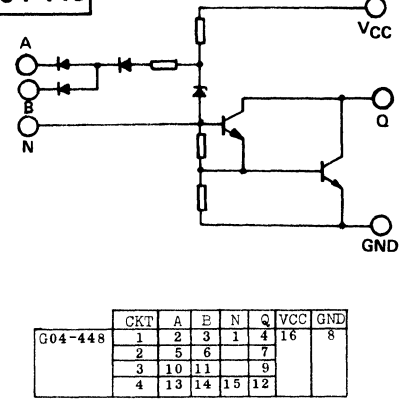
	CKT	A	B	C	N	Q	VCC	GND
G04-446	1	2	3	4	1	5	16	8
	2	7	6	10		9		
	3	12	13	14	15	11		

G04-447



	CKT	A	B	Q	VCC	GND
G04-447	1	1	1	2	16	8
	2	3	4	5		
	3	6	7			
	4	10	9			
	5	13	12	11		
	6	15	14			
G04-447a	1	1	2	3	16	8
	2	4	5			
	3	6	7			
	4	10	9			
	5	12	11			
	6	14	15	13		

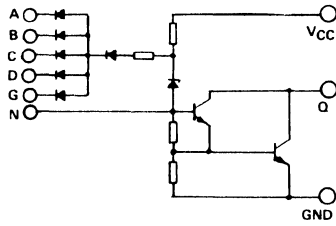
G04-448



	CKT	A	B	N	Q	VCC	GND
G04-448	1	2	3	1	4	16	8
	2	5	6		7		
	3	10	11		9		
	4	13	14	15	12		

29. LOGIC/BLOCK DRAWINGS

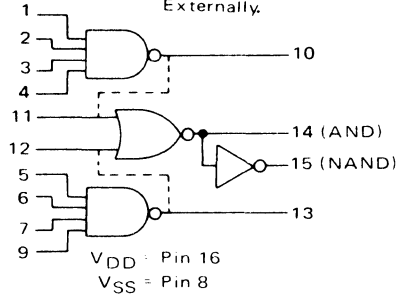
G04-449



G04-449	CKT	A	B	C	D	G	N	Q	VCC	GND
	1	2	3	4	5	6	1	7	16	8
	2	10	11	12	13	14	15	9		

G04-452

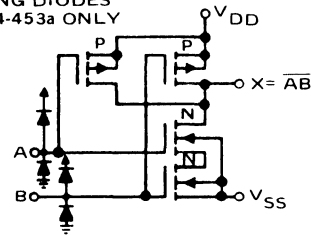
Use Dotted Connection Externally.



Note: Pin 14 must not be used as an input to the inverter.

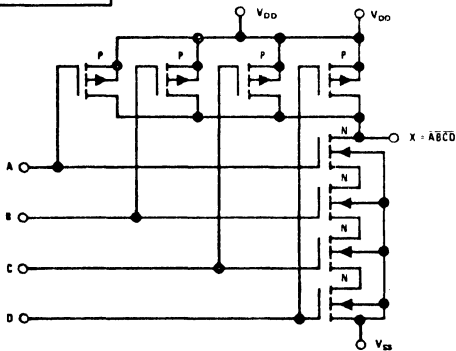
G04-453

CLAMPING DIODES FOR G04-453a ONLY

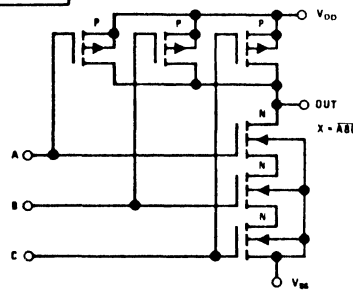


G04-453	CKT	A	B	OUTP	VDD	VSS
	1	1	2	3	14	7
	2	5	6	4		
	3	8	9	10		
	4	12	13	11		

G04-454

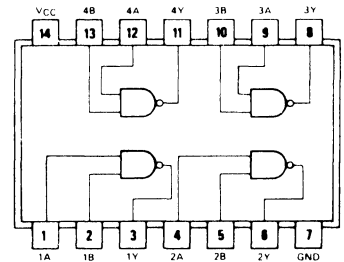


G04-455

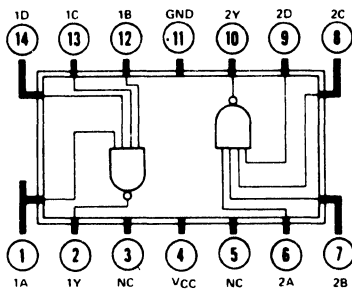


G04-455	CKT	A	B	C	OUTP	VDD	VSS
	1	3	4	5	6	14	7
	2	8	1	2	9		
	3	11	12	13	10		

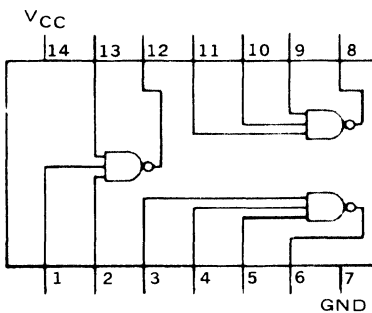
G04-464



G04-465

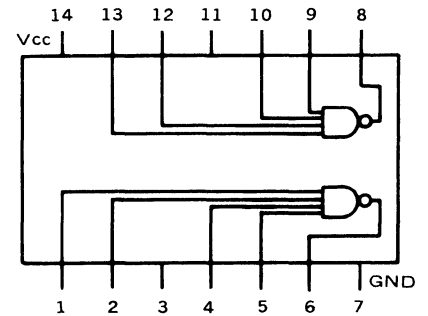


G04-470



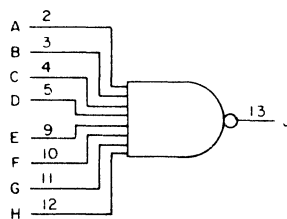
G04-470a — HAS OPEN COLLECTOR OUTPUT.

G04-471



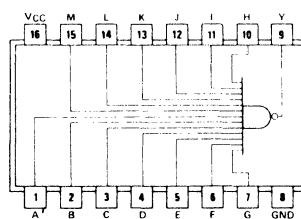
G04-472

G04-472a — Pin 1 is AND output

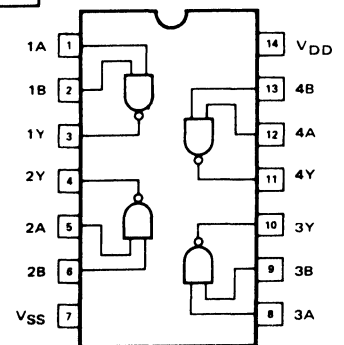


VDD = 14
VSS = 7

G04-474

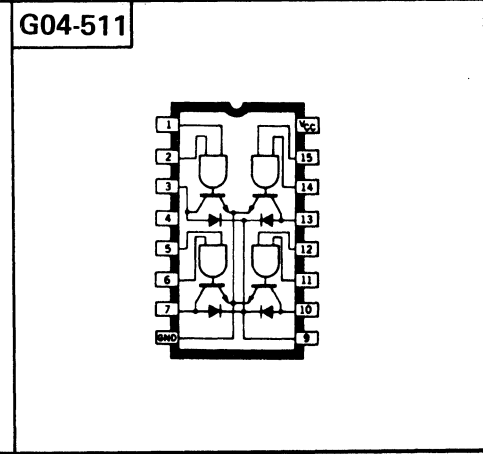
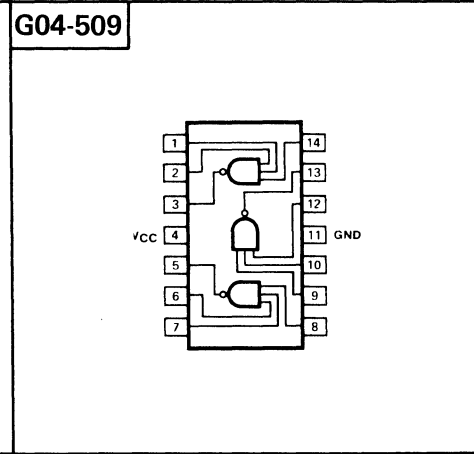
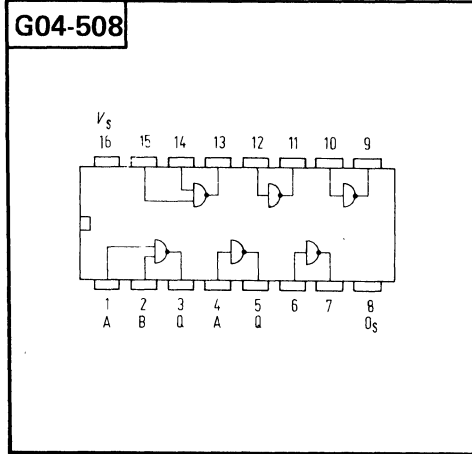
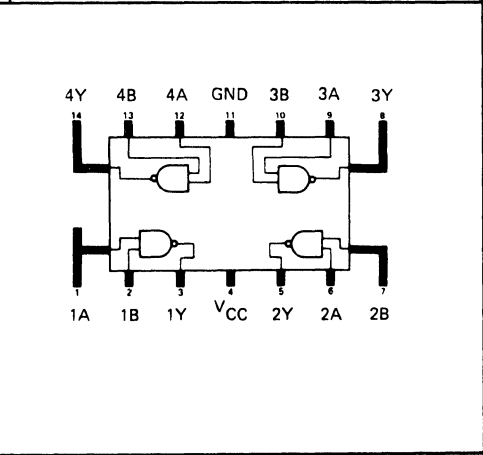
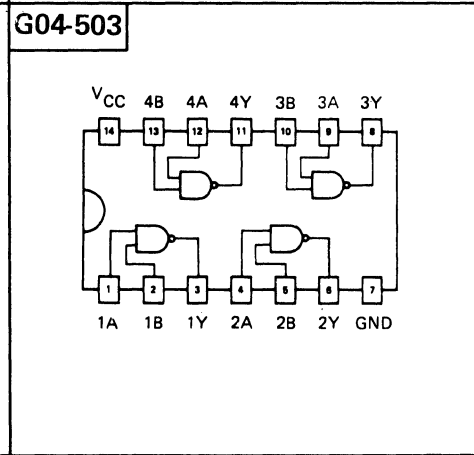
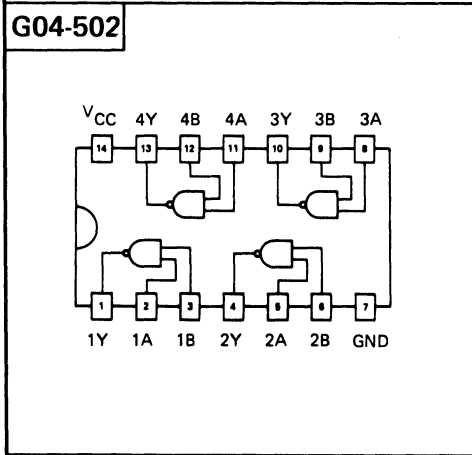
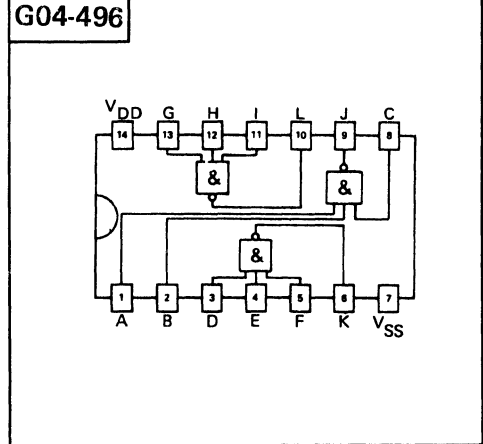
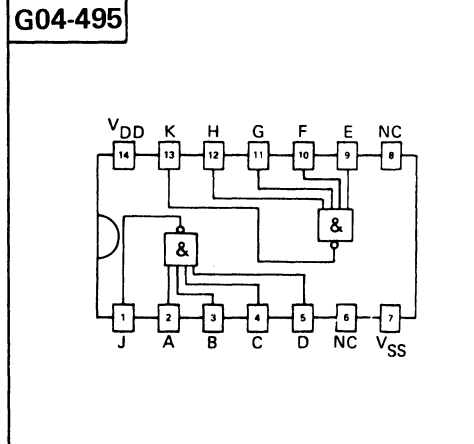
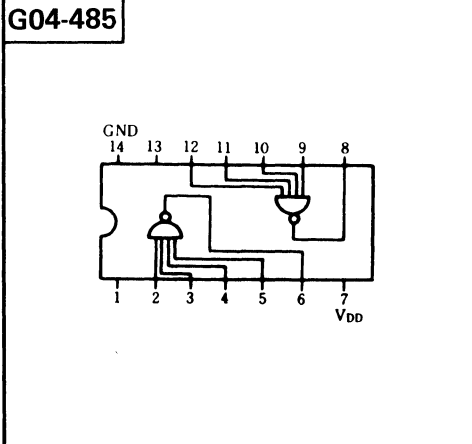
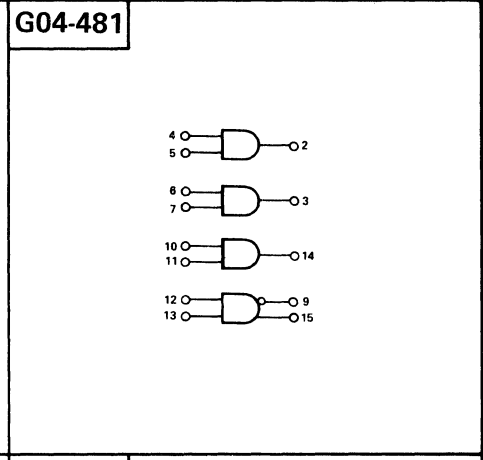
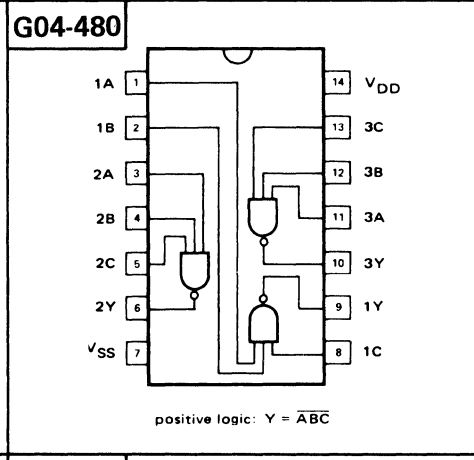
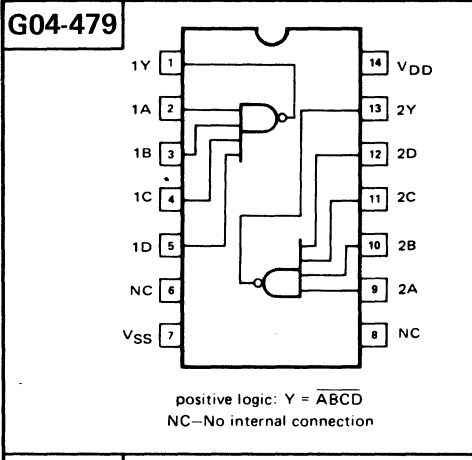


G04-478



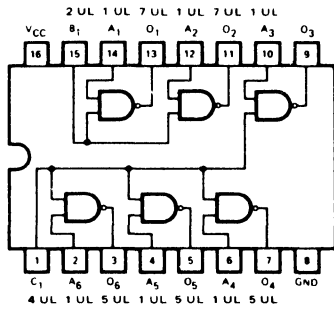
positive logic: Y = AB

29. LOGIC/BLOCK DRAWINGS

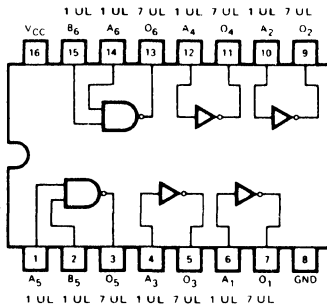


29. LOGIC/BLOCK DRAWINGS

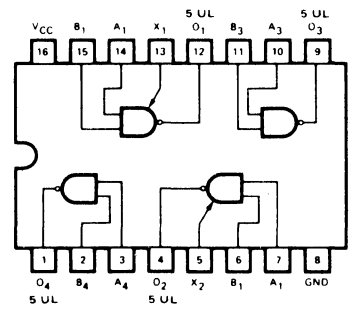
G04-517



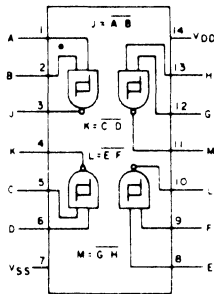
G04-518



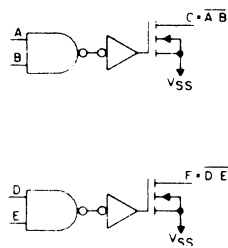
G04-519



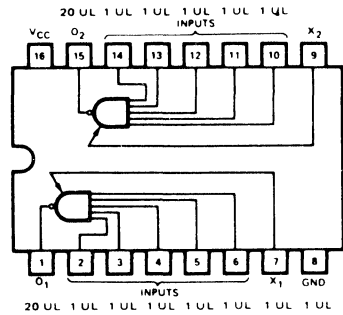
G04-522



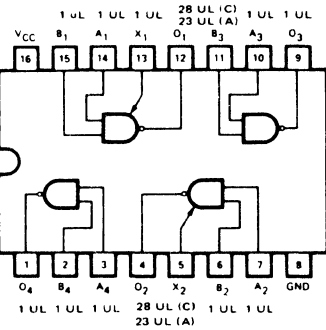
G04-523



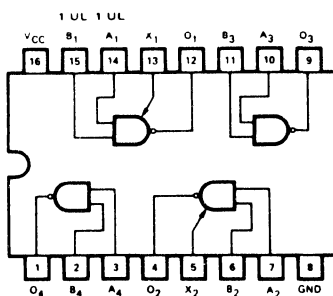
G04-524



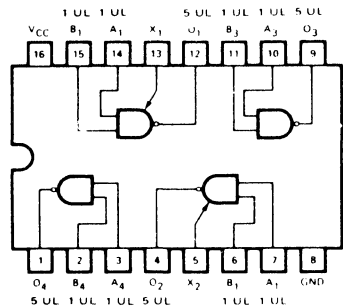
G04-525



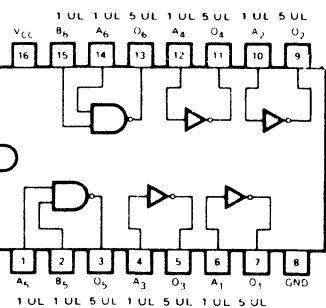
G04-526



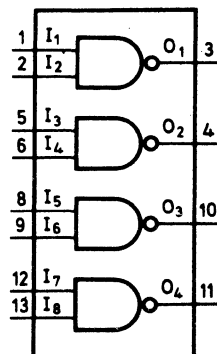
G04-527



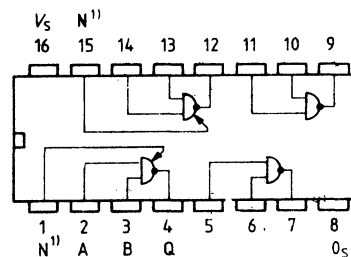
G04-528



G04-530

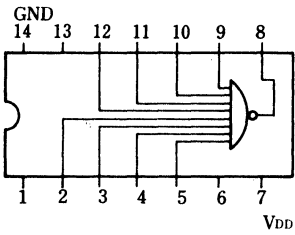


G04-531

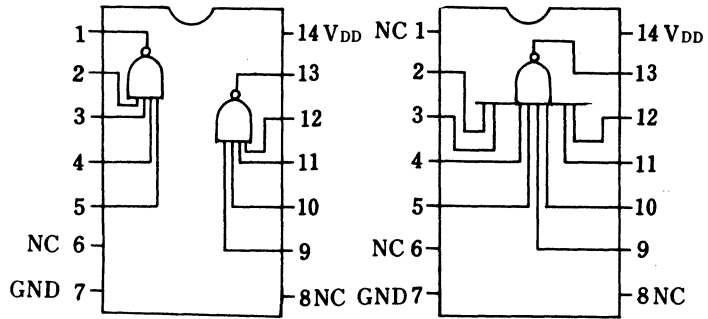


29. LOGIC/BLOCK DRAWINGS

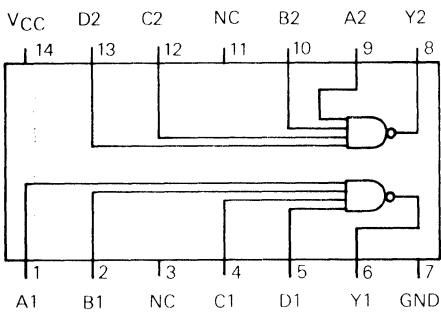
G04-532



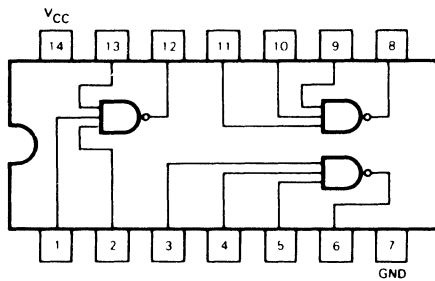
G04-533



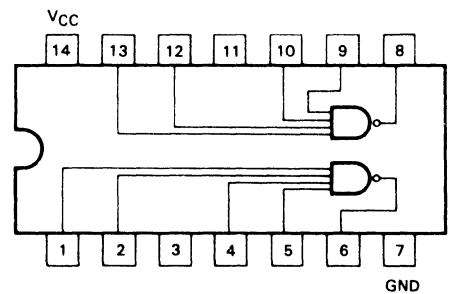
G04-534



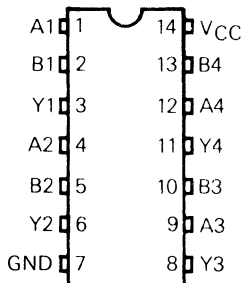
G04-535



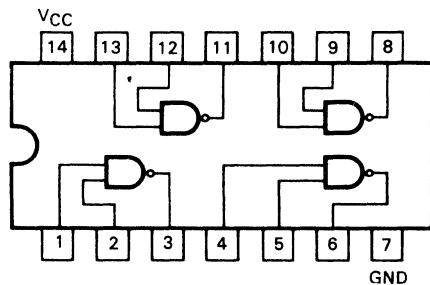
G04-536



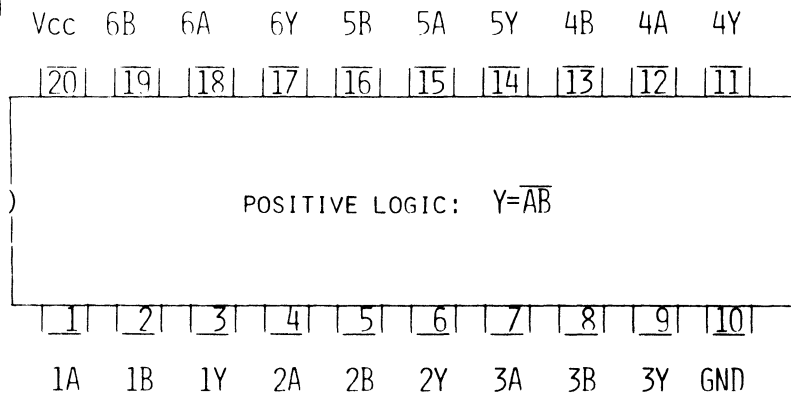
G04-537



G04-538

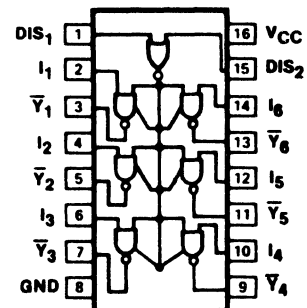


G04-539



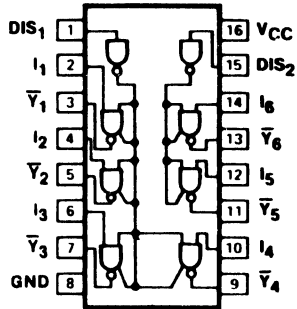
G04-540

Hex Buffers w/3-State

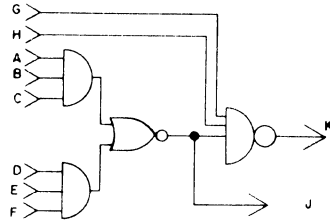


29. LOGIC/BLOCK DRAWINGS

G04-541 Hex Inverter w/3-State

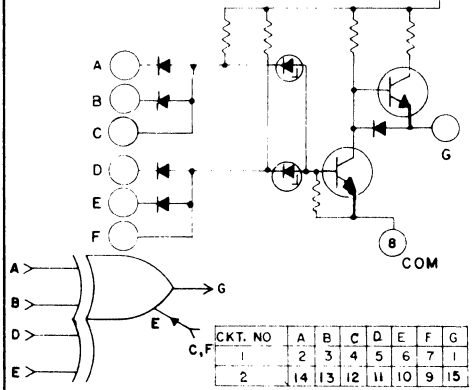


G05-79

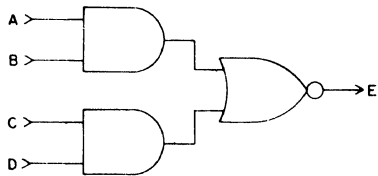


A	B	C	D	E	F	G	H	J	K	V _{CC} COM	OUTLINE
9	10	11	1	2	3	8	NC	6	7	12	5 CN3A
1	2	3	5	6	7	13	4	11	12	4	10 TC 86

G05-90

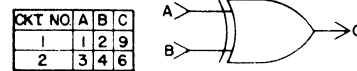


G05-92

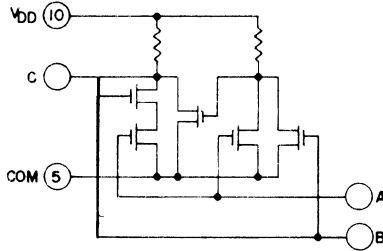


CKT. NO	A	B	C	D	E	COM	V _{CC}
FP 1	6	7	8	9	10	11	4
2	13	14	1	2	12		
MP 1	1	2	4	5	6	7	14
2	9	10	12	13	8		

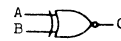
G05-97



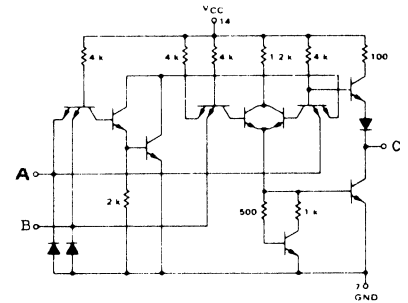
CKT. NO	A	B	C
1	1	2	9
2	3	4	6



G05-104

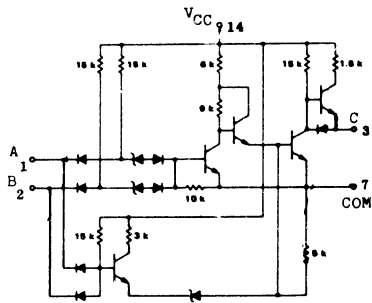


CKT. NO	A	B	C
1	1	2	3
2	5	10	5
3	12	13	11

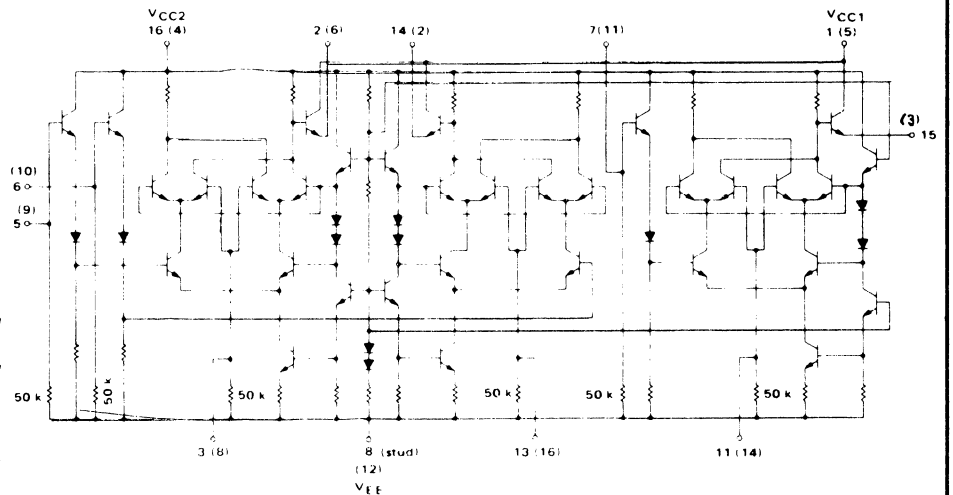


G05-106

CKT. NO	A	B	C
1	1	2	3
2	4	5	6
3	9	10	8
4	12	13	11



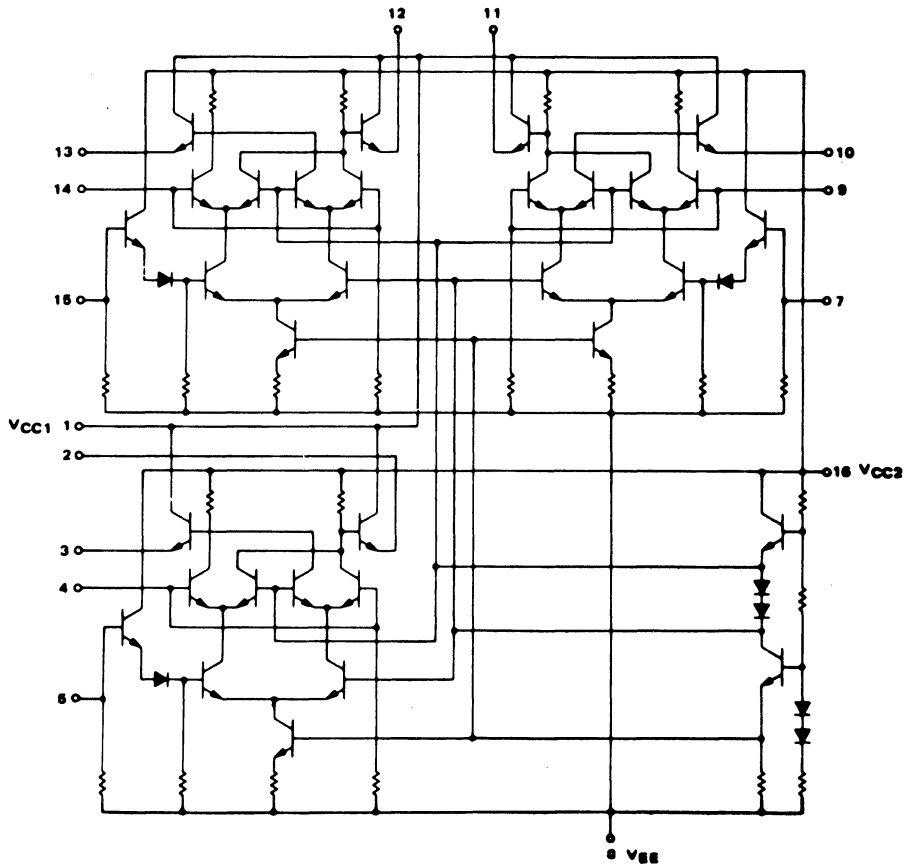
G05-107



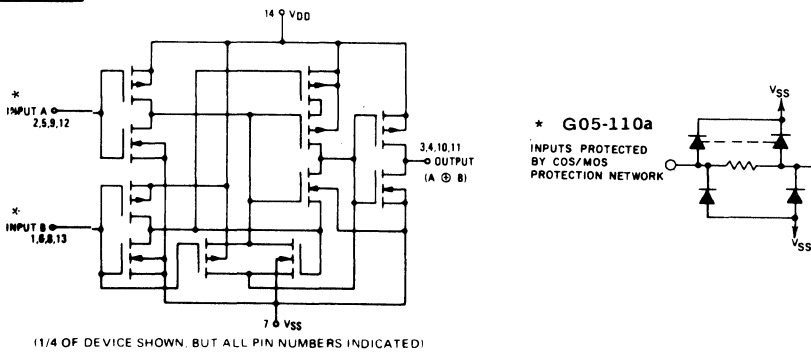
Number at end of terminal denotes pin number for L package
Number in parenthesis denotes pin number for F package

29. LOGIC/BLOCK DRAWINGS

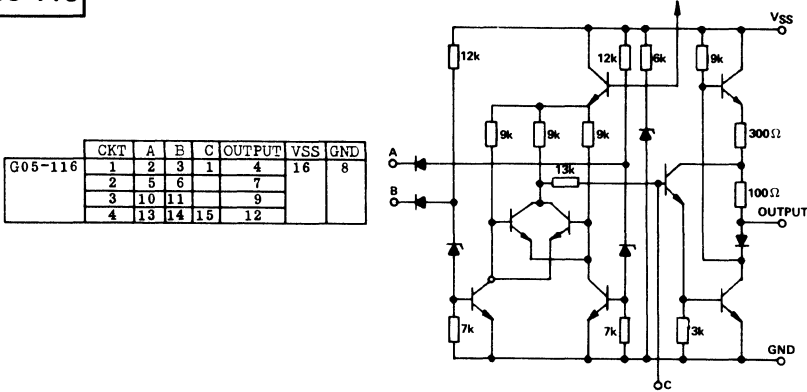
G05-108



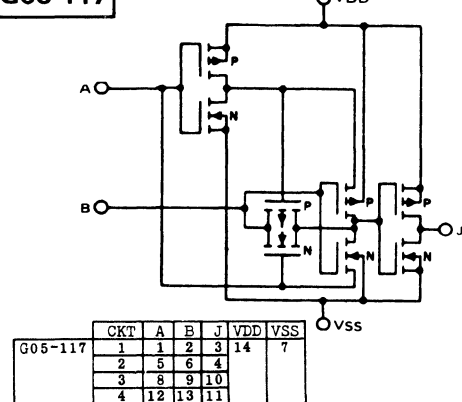
G05-110



G05-116

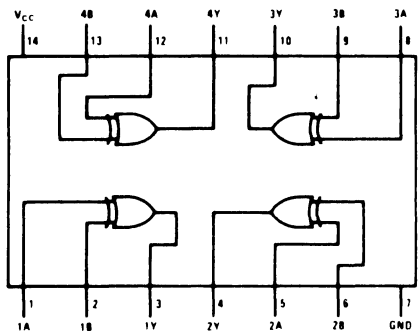


G05-117

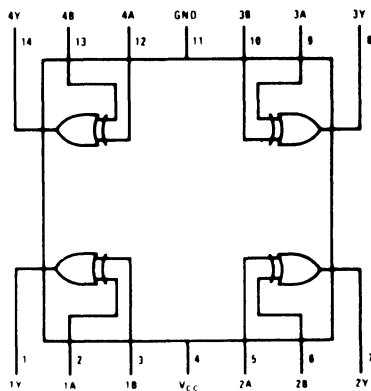


29. LOGIC/BLOCK DRAWINGS

G05-122

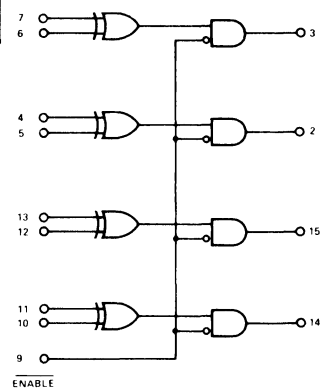


DIL



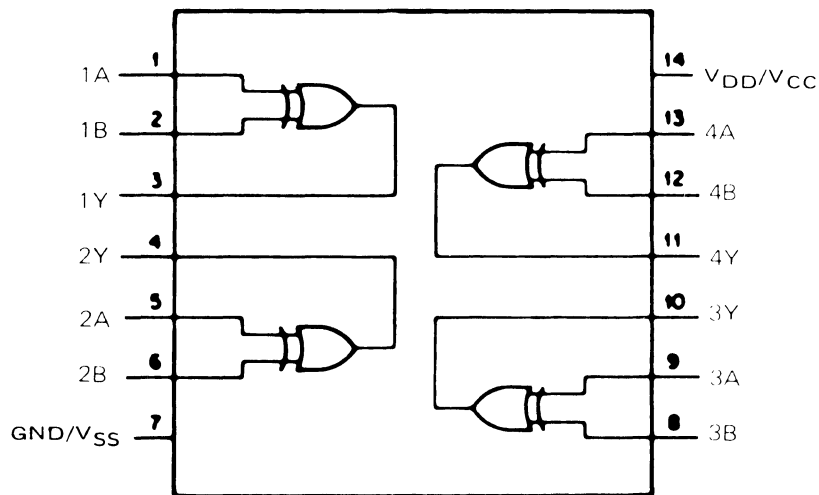
FP

G05-124

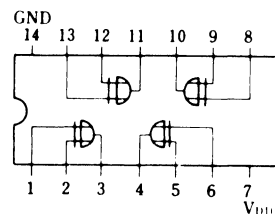


VCC1 = 1, VCC2 = 16, VEE = 8
POSITIVE LOGIC: HIGH LEVEL = '1'

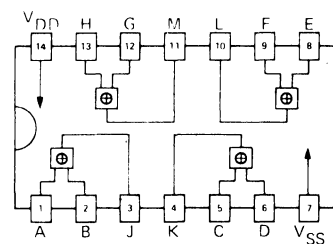
G05-126



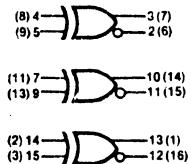
G05-129



G05-130

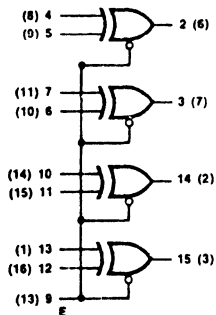


G05-131



VCC1 = PIN 1 (5)
VCC2 = PIN 16 (4)
VEE = PIN 8 (12)
() = FLATPACK

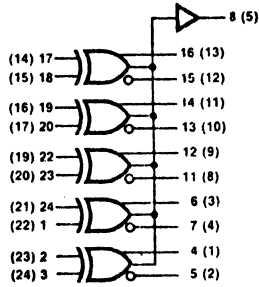
G05-132



VCC1 = Pin 1 (5)
VCC2 = Pin 16 (4)
VEE = Pin 8 (12)
() = Flatpak

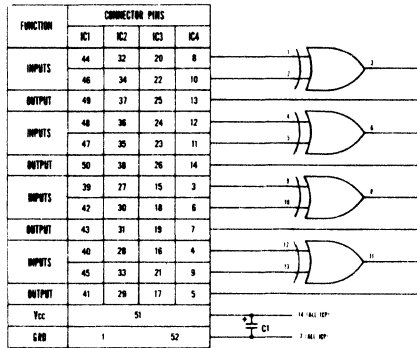
29. LOGIC/BLOCK DRAWINGS

G05-133

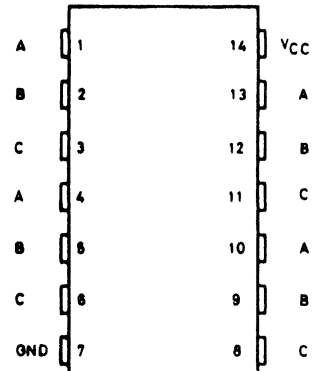


VCC = PIN 9 (6)
 VCCA = PIN 10 (7)
 VEE = PIN 21 (18)
 () = DUAL IN LINE

G05-135

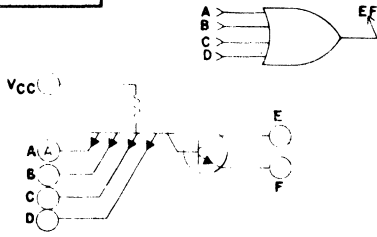


G05-138



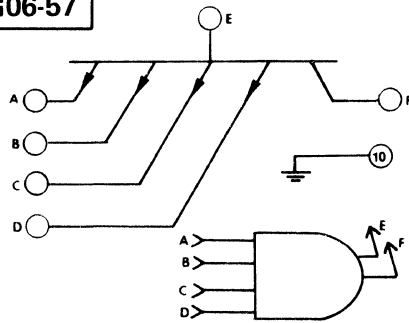
S-1009

G06-56

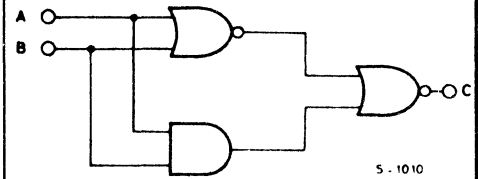


OUTLINE	PKT. NO.	A	B	C	D	E	F	VCC	GND	
G06-56	FP	1	14	1	2	3	12	13	4	10
G06-56a	MF	1	13	1	2	3	11	12	14	10
G06-56b	MP	1	4	5	6	8	10	9	14	10
G06-56c	FP	1	5	6	7	8	11	9	4	10
		2	1	2	3	4	12	13	4	10
		1	3	5	6	7	2	1	4	11
		2	8	9	10	12	13	14	4	11

G06-57

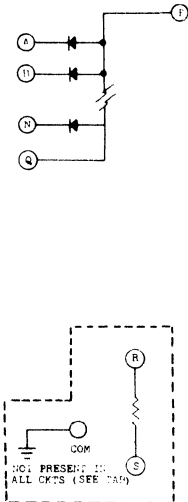


CKT TERM	A	B	C	D	E	F
G06-57	1	2	3	14	13	12
	2	5	6	7	8	11



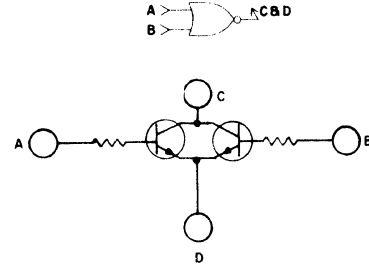
S-1010

G06-61



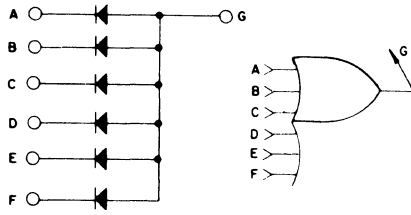
CKT	A	B	C	D	E	F	G	H	J	K	M	N	P	Q	R	S	COM	VCC
G06-61	1	5	6	7	8	9							10					11
	2	1	2	3	13	14							12					11
G06-61b	1	1	2	3	4	5	6	7	8	9	12	13	14	10				11
G06-61c	1	3	4	5	6	7	8	9	10	11				2				1
	2	5	6	7	8	9	10	11						9				1
	3	10	11											14				1
	4	12	13											2				1
G06-61d	1	3	4	5	6	7								14				1
	2	9	10	11	12	13								2				1
G06-61e	1	41	40	33	12	13								37				1
	2	36	35	34										33				1
	3	32	31	30										29				1
	4	28	27	26										25				1
	5	24	23	22										21				1
	6	20	19	18										17				1
	7	16	15	14										13				1
	8	12	11	10										9				1
	9	8	7	6	5									4				1
G06-61f	1	4	5	6	7	8								9				1
	2	10	11	12	13	14								15				1
	3	16	17	18	19	20								21				1
	4	22	23	24	25	26								27				1
	5	28	29	30	31	32								33				1
	6	34	35	36	37	38								39				1
	7	40												41				1
G06-61g	1	3	4	5	6	7	8							10				1
G06-61h	1	2	3	10										4	9	2		1
	2	7	8	9										5	9	2		1
G06-61j	1	10	11	12	13									9				14
	2	2	3	4										1				14
	3	5	7	8										6				14
G06-61k	1	3	4	5	6	7	8							10	9	2		1
G06-61m	1	10	2	3										4				1
	2	7	8	9										5				1
G06-61n	1	1	2	3	13	14								12				11
	2	5	6	7	8	9								10				11
G06-61t	1	1	2											3				11
	2	8	7											5				11
	3	8	9											10				11
	4	13	14											12				11
G06-61w	1	16	17	18	19	20								18				14
	2	21	22	23										24				14
	3	25	26	27										28				14
	4	29	30	31										32				14
	5	1	3											2				14
	6	6	8											4				14
	7	7	9											6				14
	8	10	11											12				14
	9	13	15											14				14
G06-61x	1	2	3	4	5	6								1				14
	2	9	10	11	12	13								8				14
G06-61y	1	3	5	6	8									4				14
	2	13	14	10	9									11				14

G06-67



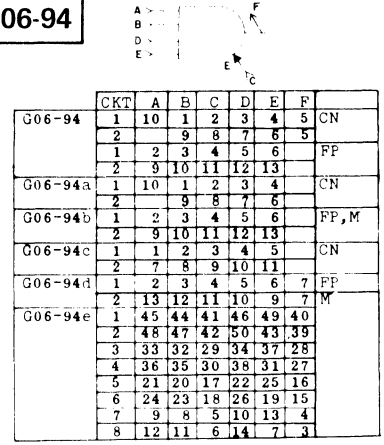
29. LOGIC/BLOCK DRAWINGS

G06-86



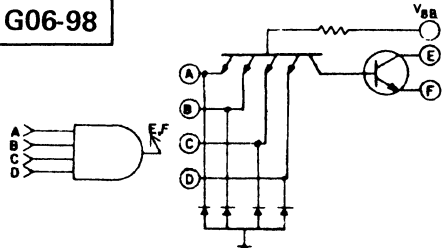
CKT	TERM	A	B	C	D	E	F	G
G0686		1	2	3	4	5	6	7
G0686A		1	2	3	4	5	6	
G0686B		1	3	4	5	6		7
		2	8	9	10	11		12
		3	13	14	15	16		17
		4	18	19	20	21		22
		5	23	24	25	26		27
		6	28	29	30	31		32
G0686C		1	3	4				5
		2	6	7				8
		3	9	10				11
		4	12	13				14
		5	15	16				17
		6	18	19				20
		7	21	22				23
		8	24	25				26
		9	27	28				29
		10	30	31				32

G06-94



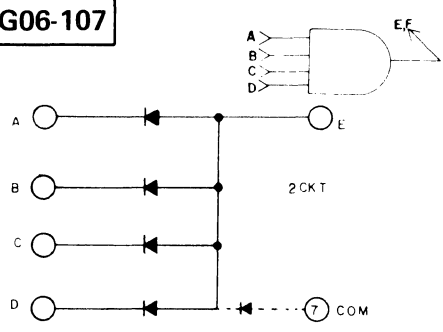
CKT	A	B	C	D	E	F	G
G06-94	1	10	1	2	3	4	5
	2	9	8	7	6	5	
	1	2	3	4	5	6	FP
	2	9	10	11	12	13	
G06-94a	1	10	1	2	3	4	CN
	2	9	8	7	6	5	
G06-94b	1	2	3	4	5	6	FP, M
	2	9	10	11	12	13	
G06-94c	1	1	2	3	4	5	CN
	2	7	8	9	10	11	
G06-94d	1	2	3	4	5	6	7
	2	13	12	11	10	9	M
G06-94e	1	45	44	41	46	49	40
	2	48	47	42	50	43	39
	3	33	32	29	34	37	28
	4	36	35	30	38	31	27
	5	21	20	17	22	25	16
	6	24	23	18	26	19	15
	7	9	8	5	10	13	4
	8	12	11	6	14	7	3

G06-98



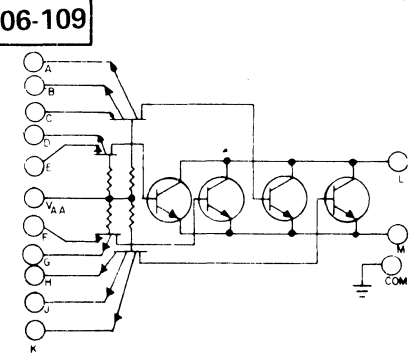
OUTLINE	CKT NO	A	B	C	D	E	F	VBB	COM
G06-98	FP	1	12	10	9	8	13	14	4
	MP	2	3	5	6	7	2	1	5
G06-98A	MP	1	1	2	3	13	12	11	14
	MP	2	4	5	6	8	9	10	14
G06-98B	FP	1	3	5	6	7	2	1	11
	MP	2	8	9	10	12	13	14	11
	MP	1	1	2	3	13	12	11	14
	MP	2	4	5	6	8	9	10	14

G06-107



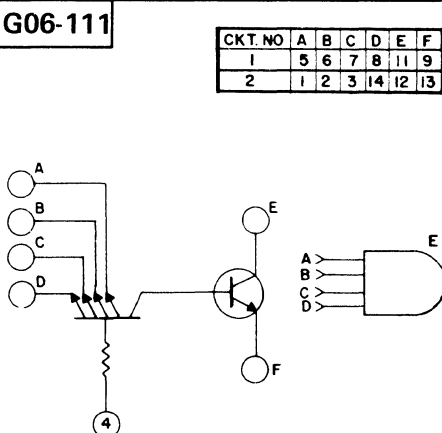
CKT NO	A	B	C	D	E
1	13	12	9	10	11
2	2	3	5	6	4

G06-109



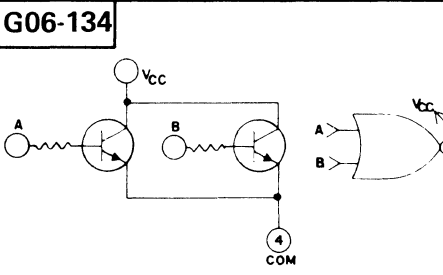
CKT NO	A	B	C	D	E	F	G	H	J	K	L	M	VAA	COM
G06109	1	14	13	2	3	5	6	7	8	9	11	12	4	10
G06109A	1	2	NC	6	7	NC	NC	NC	NC	NC	3	5	8	4

G06-111



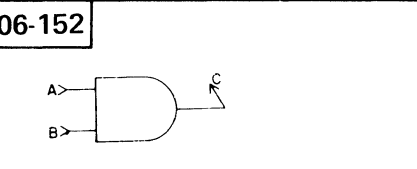
CKT. NO	A	B	C	D	E	F
1	5	6	7	8	11	9
2	1	2	3	14	12	13

G06-134



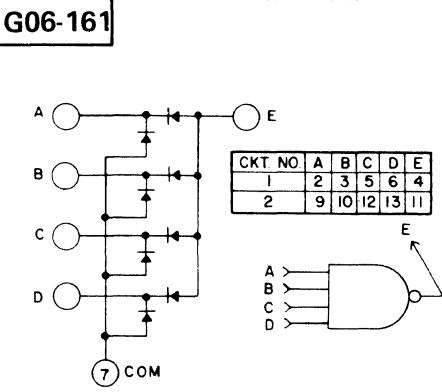
CKT NO.	A	B	C
G06-134	1	1	2
	2	3	5
G06-134A	1	1	2
	2	6	7
	3	9	10
	4	12	13

G06-152



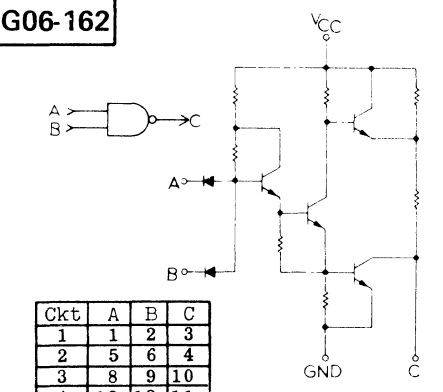
CKT NO.	A	B	C	COM
MP	1	3	4	2
	2	5	6	7
	3	13	12	14
	4	11	10	9
FP	1	1	2	3
	2	6	7	5
	3	8	9	10
	4	13	14	12

G06-161



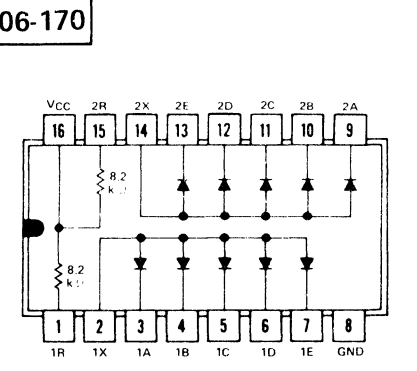
CKT NO.	A	B	C	D	E
1	2	3	5	6	4
2	9	10	12	13	11

G06-162



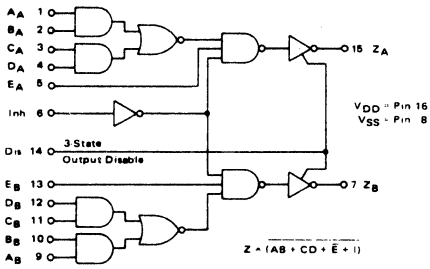
Ckt	A	B	C
1	1	2	3
2	5	6	4
3	8	9	10
4	12	13	11

G06-170

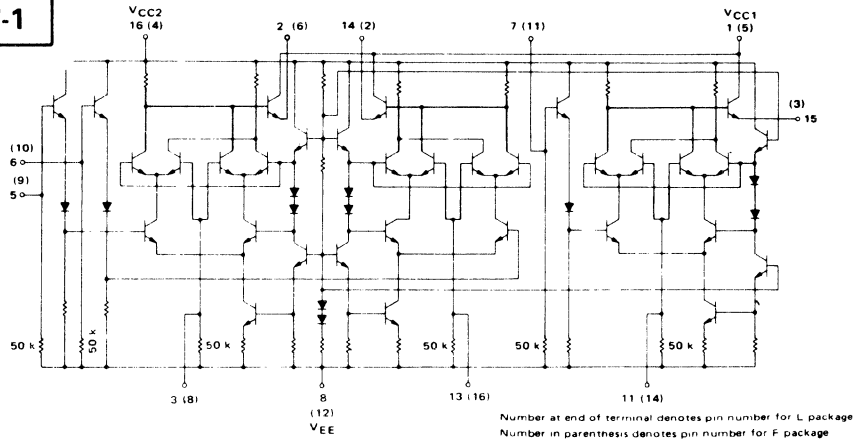


29. LOGIC/BLOCK DRAWINGS

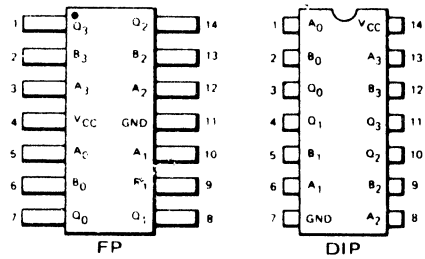
G06-179



G07-1

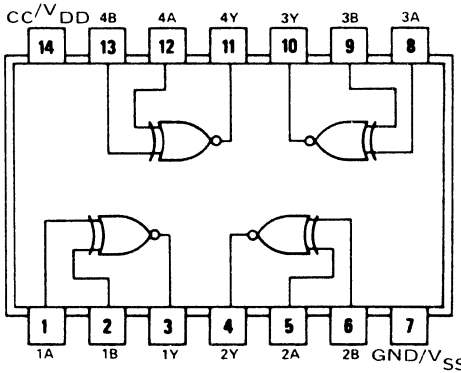


G07-4

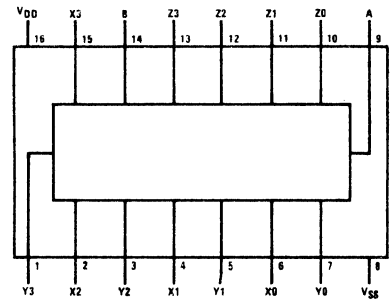


G07-5

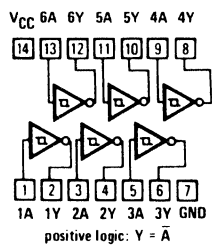
G07-5a — HAS OPEN COLLECTOR OUTPUTS.



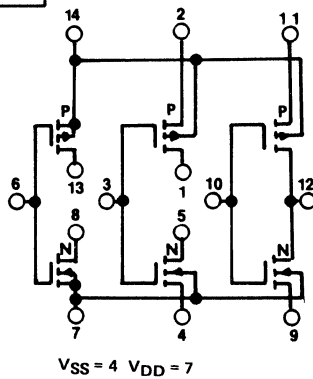
G07-7



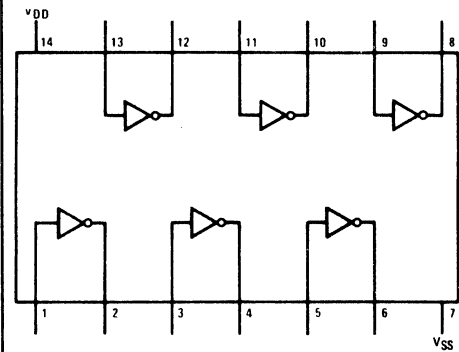
G08-03



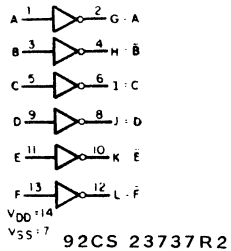
G08-04



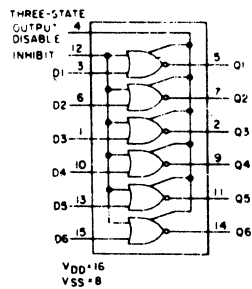
G08-05



G08-06



G08-07

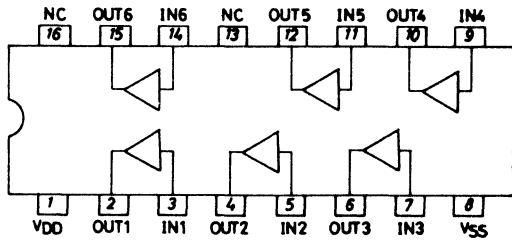


29. LOGIC/BLOCK DRAWINGS

<p>G08-08</p> <p>TOP VIEW</p> <p>Note: All P-channel substrates are connected to V_{DD} and all N-channel substrates are connected to V_{SS}.</p>	<p>G08-09</p>
<p>G08-10</p>	<p>G08-11</p> <p>GND = PIN 8 VCC = PIN 16</p>
<p>G08-15</p>	<p>G08-16</p>
<p>G08-17</p>	<p>G08-19</p>
<p>G08-14</p>	<p>G08-20</p>

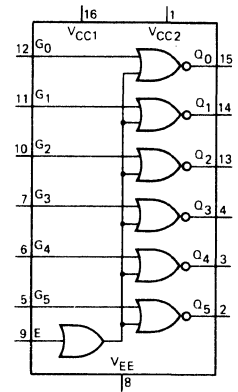
29. LOGIC/BLOCK DRAWINGS

G08-21

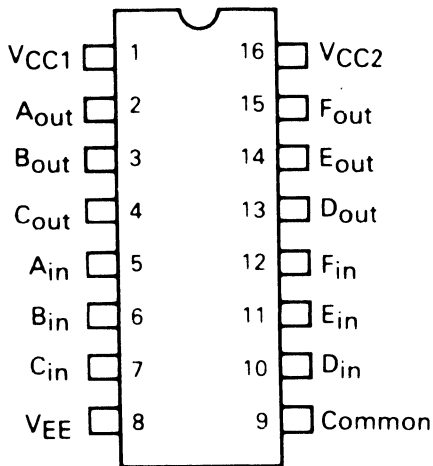


G08-22

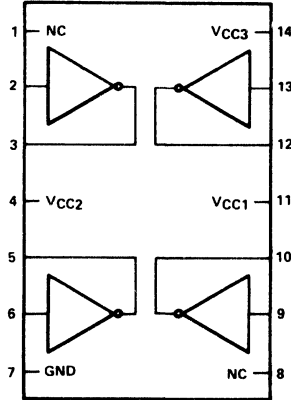
Hex Inverter w/Enable



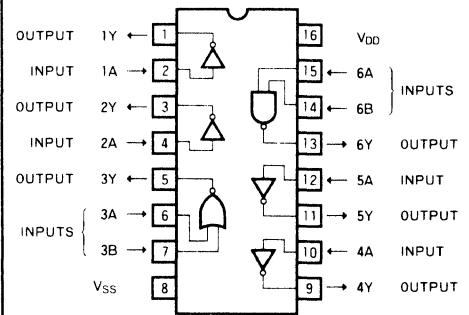
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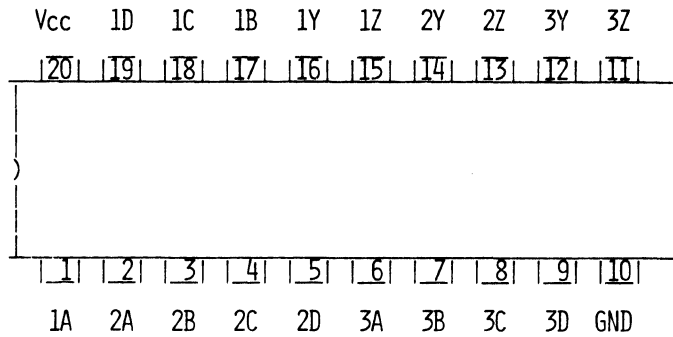
G08-24



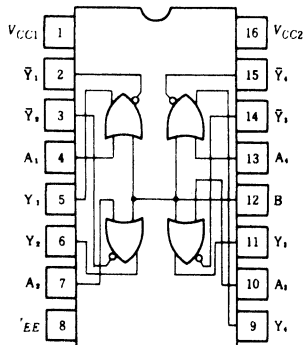
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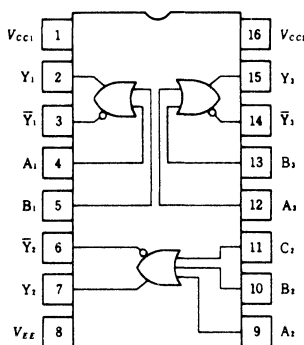
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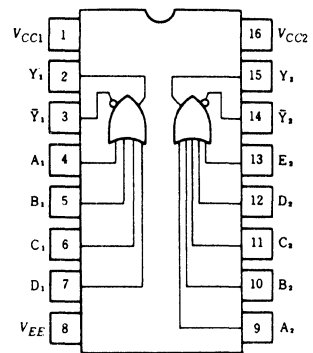
G17-01



G17-02

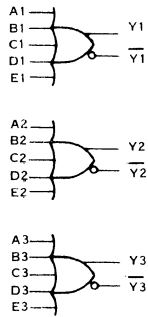


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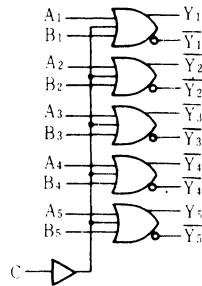


29. LOGIC/BLOCK DRAWINGS

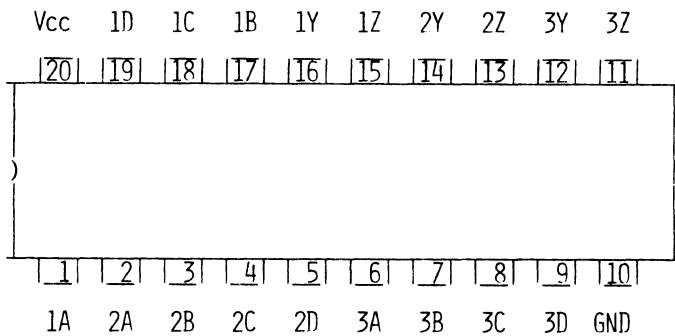
G17-04



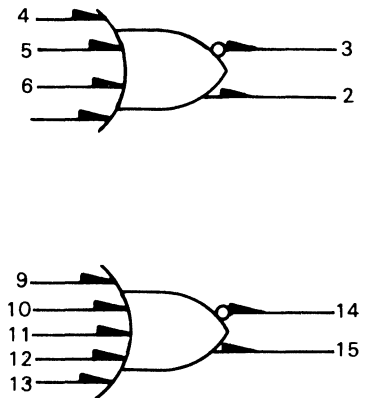
G17-05



G17-06

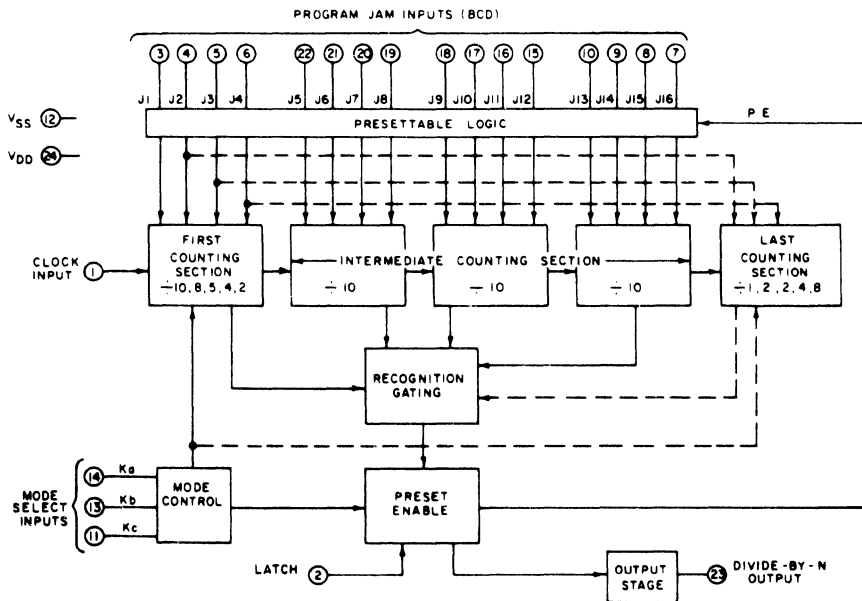


G17-17

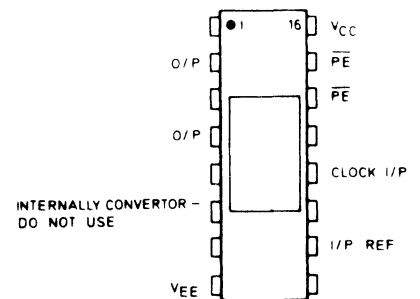


VCC1 = Pin 1
VCC2 = Pin 16
VEE = Pin 8

H01-1



H01-4



29. LOGIC/BLOCK DRAWINGS

H01-5

H01-7

TOP VIEW

H01-8

PIN ASSIGNMENTS

28 PIN	SYMBOL	FUNCTION	40 PIN *
1	V _{SS}	GROUND	1
2	K ₀	KEYBOARD INPUT	2
3	V _{DD}	-7V (V _{GG})	3
4	SP	DECIMAL POINT	8
5	KDI	KEYBOARD DEBOUNCE INHIBIT	9
6	CPI	COMPARE REGISTER INDICATOR	10
7	SG	SEGMENT DRIVER G	12
8	SF	SEGMENT DRIVER F	13
9	SE	SEGMENT DRIVER E	14
10	SD	SEGMENT DRIVER D	15
11	SC	SEGMENT DRIVER C	18
12	SB	SEGMENT DRIVER B	19
13	SA	SEGMENT DRIVER A	20
14	D ₉	DIGIT DRIVER NO. 9	21
15	D ₅	DIGIT DRIVER NO. 5	22
16	D ₄	DIGIT DRIVER NO. 4	23
17	D ₈	DIGIT DRIVER NO. 8	24
18	D ₃	DIGIT DRIVER NO. 3	25
19	D ₂	DIGIT DRIVER NO. 2	26
20	D ₁	DIGIT DRIVER NO. 1	27
21	D ₆	DIGIT DRIVER NO. 6	28
22	CIN	COUNT INPUT	29
23	CTI	CLOCK TIMING INPUT	30
24	D ₇	DIGIT DRIVER NO. 7	31
25	K ₃	KEYBOARD INPUT	32
26	V _{GG}	-14V	33
27	K ₂	KEYBOARD INPUT	37
28	K ₁	KEYBOARD INPUT	38
	DTO	DISPLAY TIMEOUT	11
	LBI	LOW BATTERY INPUT	17

* ALL PINS NOT SHOWN ARE NO CONNECTION

H01-9

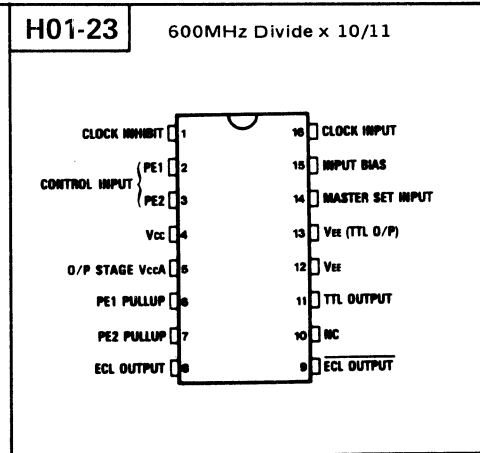
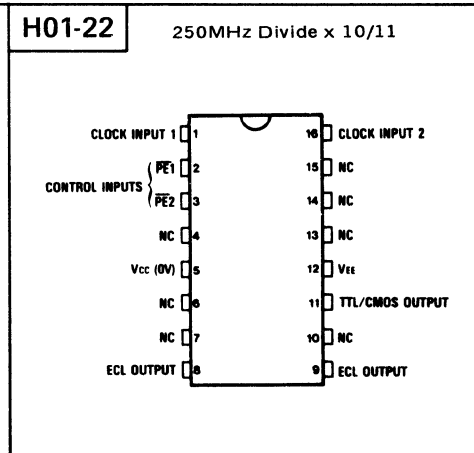
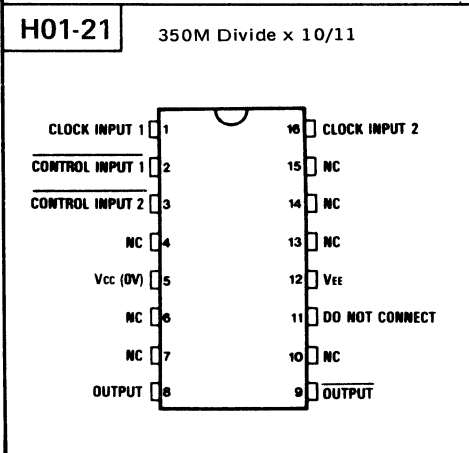
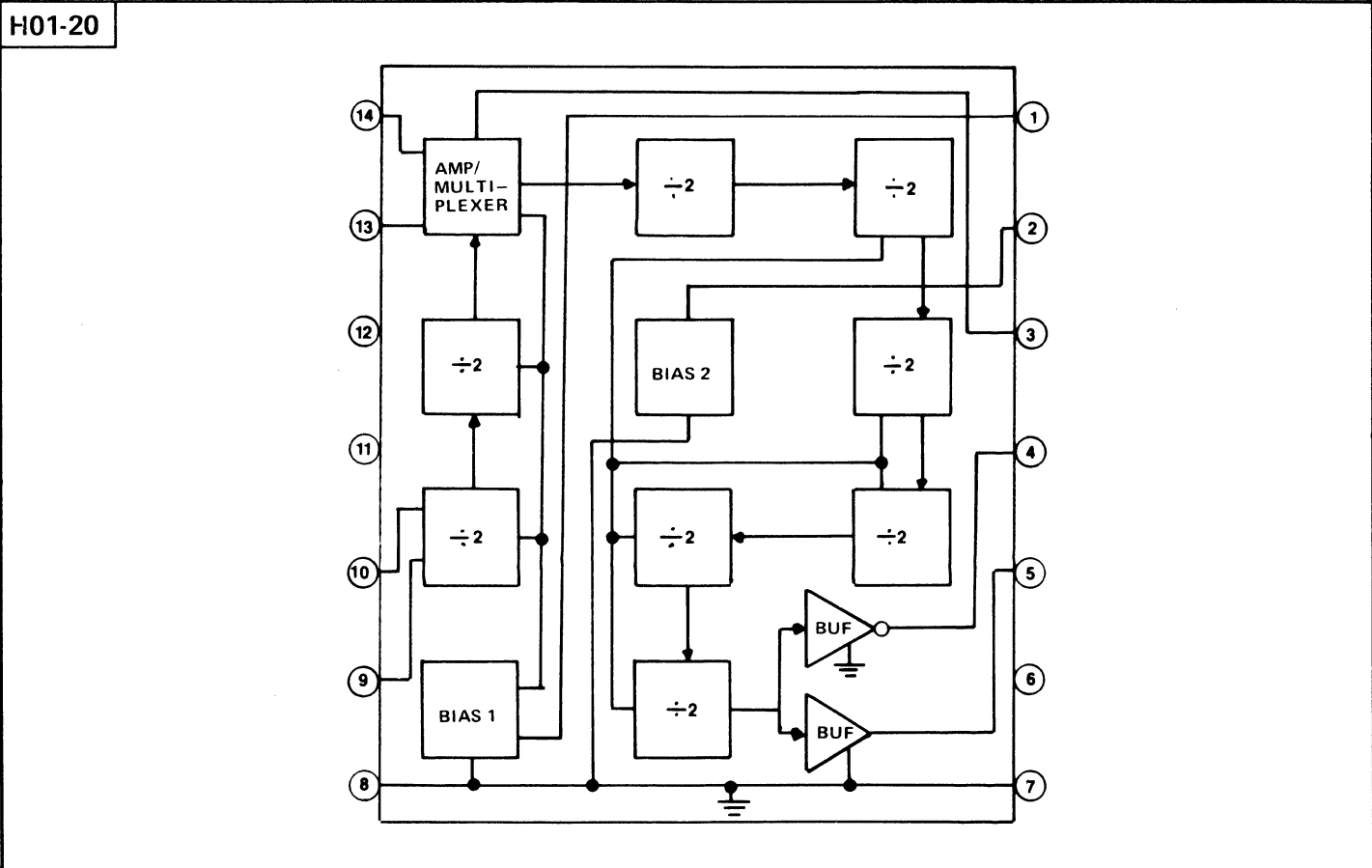
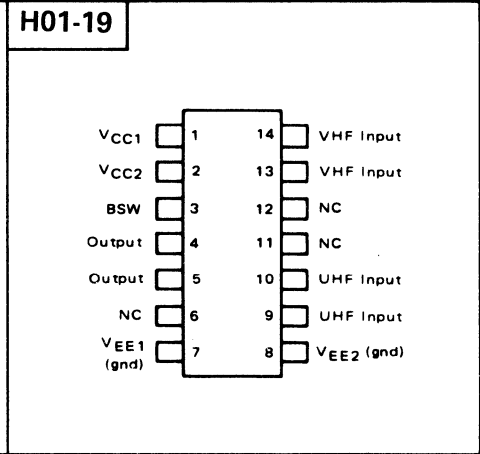
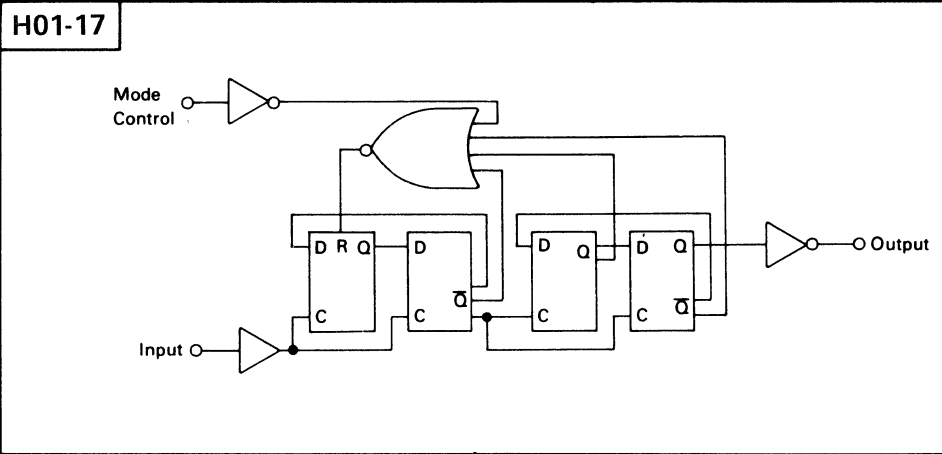
H01-12

V_{DD} = Pin 16
V_{SS} = Pin 8

H01-13

TOP VIEW

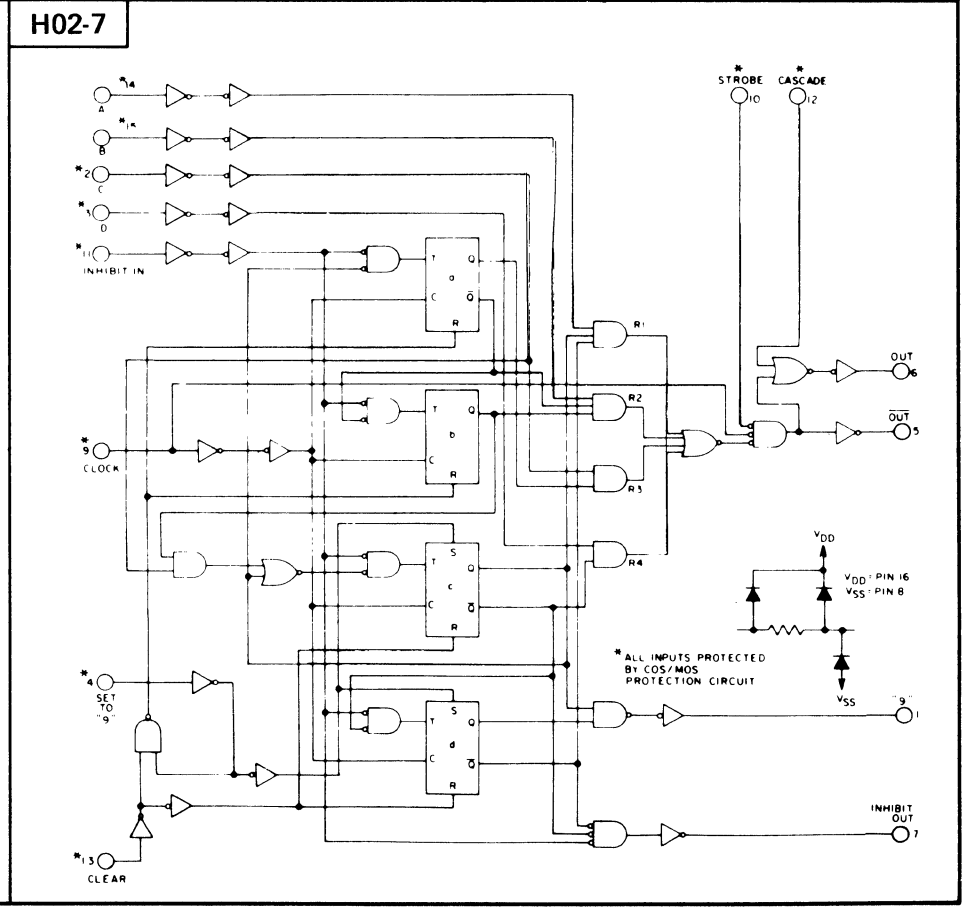
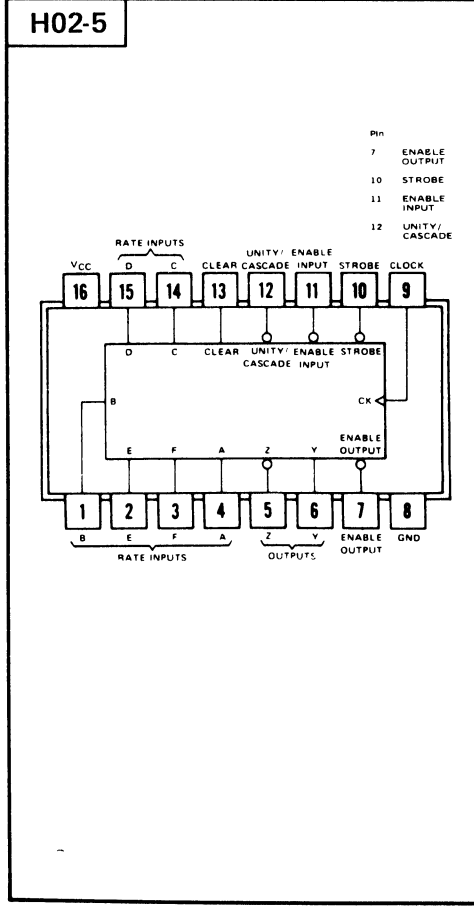
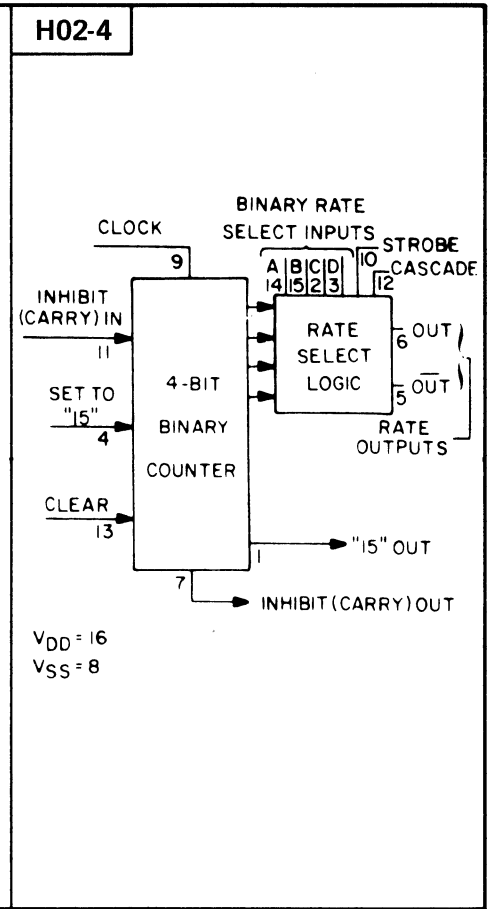
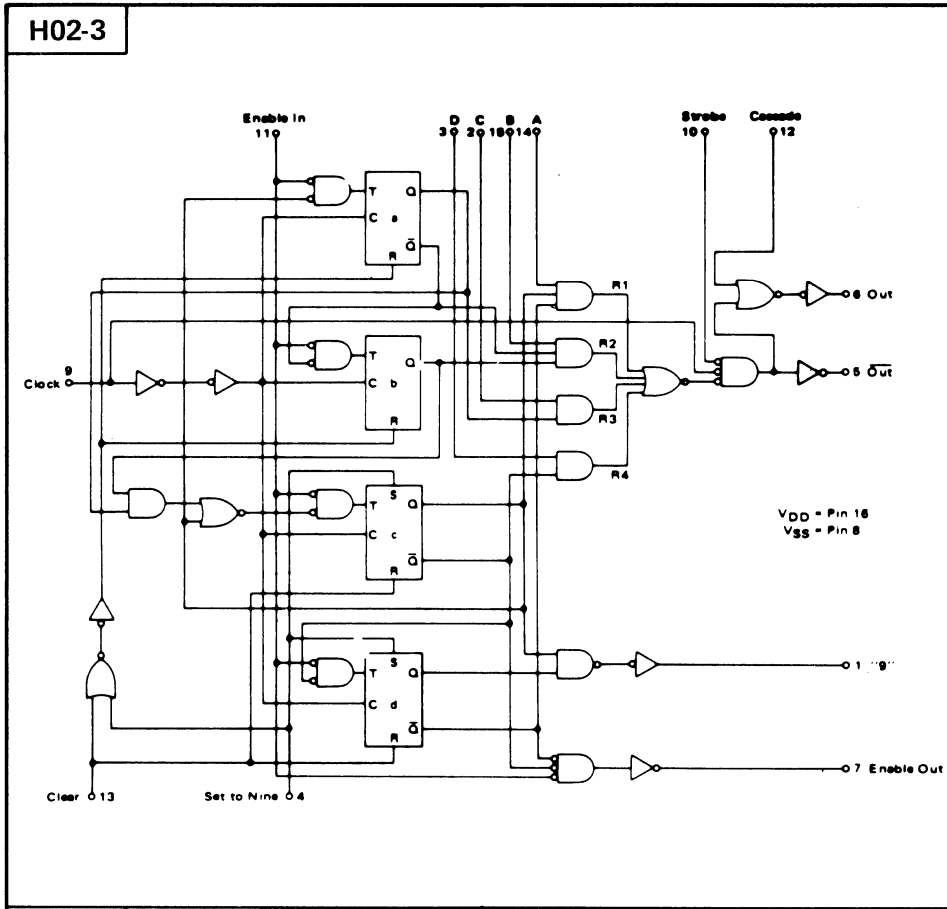
29. LOGIC/BLOCK DRAWINGS



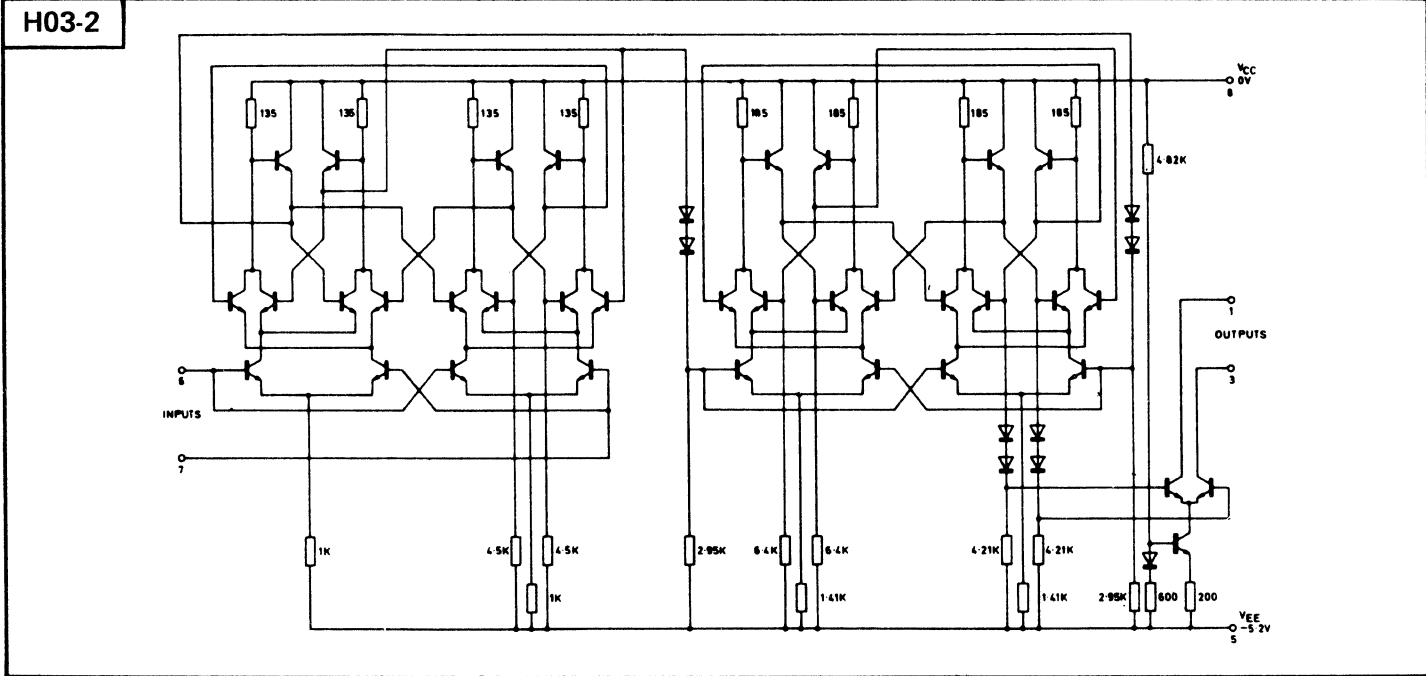
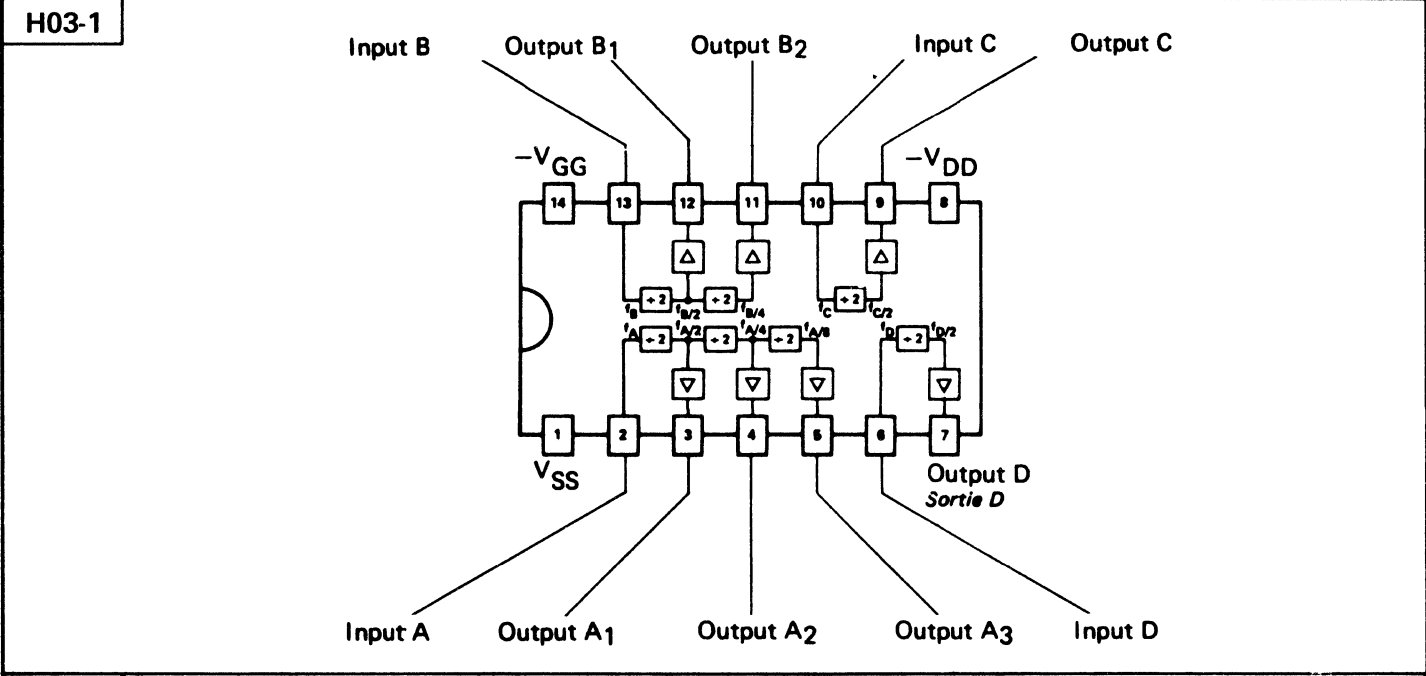
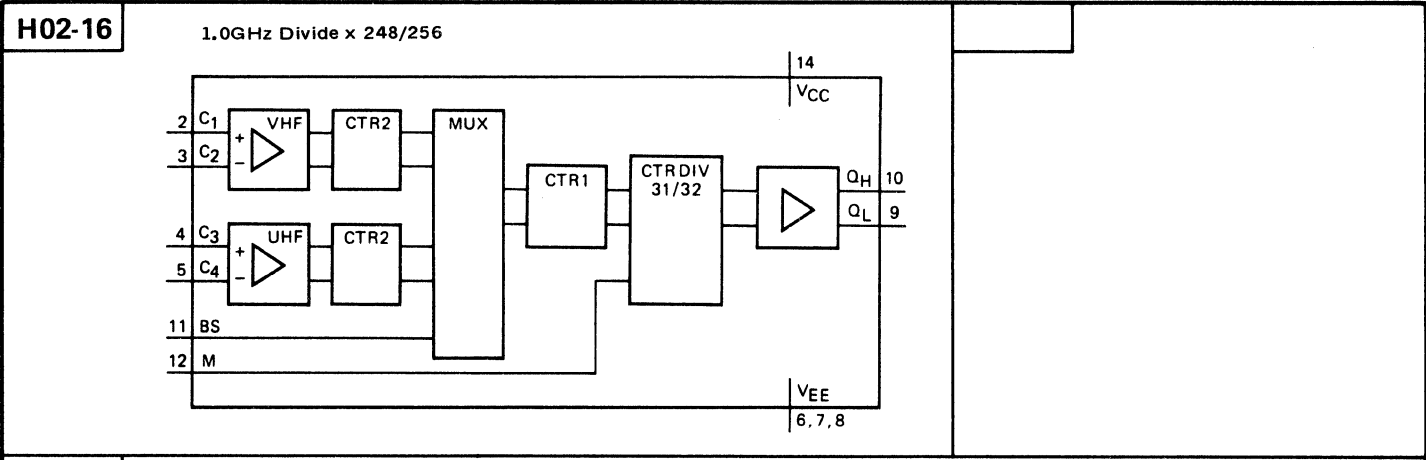
29. LOGIC/BLOCK DRAWINGS

<p>H01-24 H01-24 — 200 MHz Divide x 10/11 H01-24a — 200 MHz Divide x 8/9</p>	<p>H01-26 300MHz Divide x 3/4</p>	<p>H01-27 600MHz Divide x 8(Binary Outputs)</p>
<p>H01-28 H01-28 — 300MHz Divide x 5/6 H01-28a — 300MHz Divide x 6/7 H01-28b — 450MHz Divide x 8/9 H01-28c — 500MHz Divide x 8/9</p>	<p>H01-32 H01-32 — 1.0GHz Divide x 20/22 H01-32a — 1.3GHz Divide x 20/22</p>	<p>H01-34 H01-34 — 225MHz Divide x 80/81 H01-34a — 225MHz Divide x 40/41 H01-34b — 200MHz Divide x 80/81 H01-34c — 200MHz Divide x 40/41</p>
<p>H01-35</p>	<p>H01-36</p>	
<p>H01-37</p> <p>NC : NO CONNECTION</p>		

29. LOGIC/BLOCK DRAWINGS

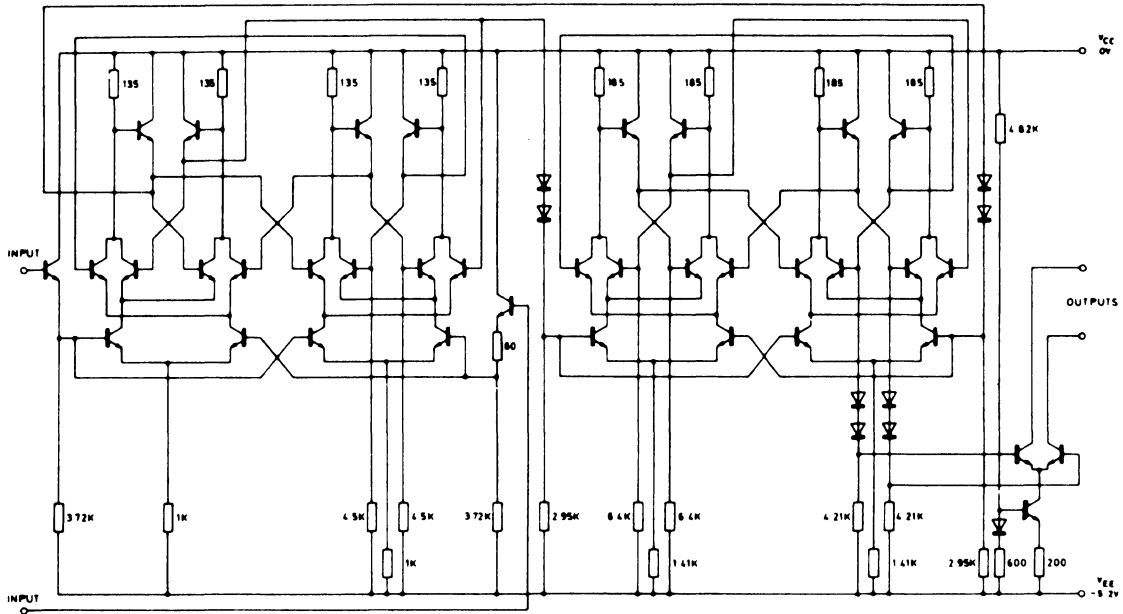


29. LOGIC/BLOCK DRAWINGS

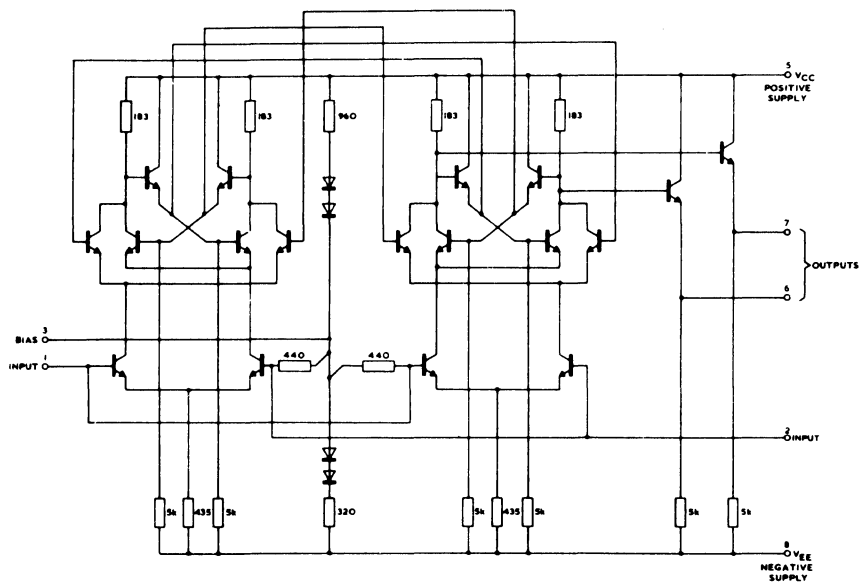


29. LOGIC/BLOCK DRAWINGS

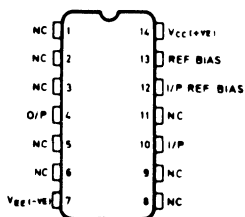
H03-3



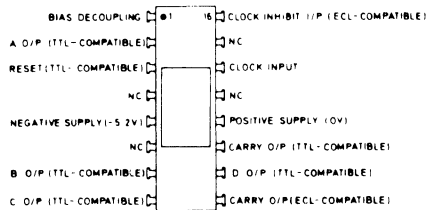
H03-4



H03-7

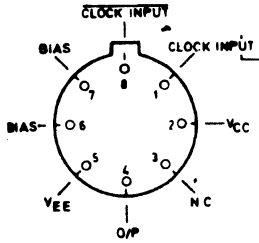


H03-8



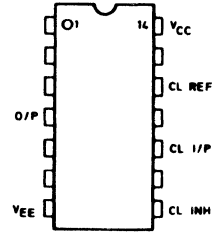
29. LOGIC/BLOCK DRAWINGS

H03-10

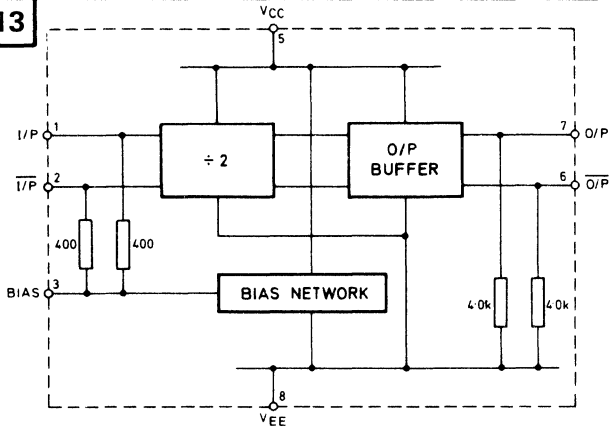


H03-11

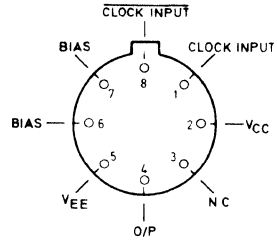
H03-11a — 1.5GHz Divide x 10



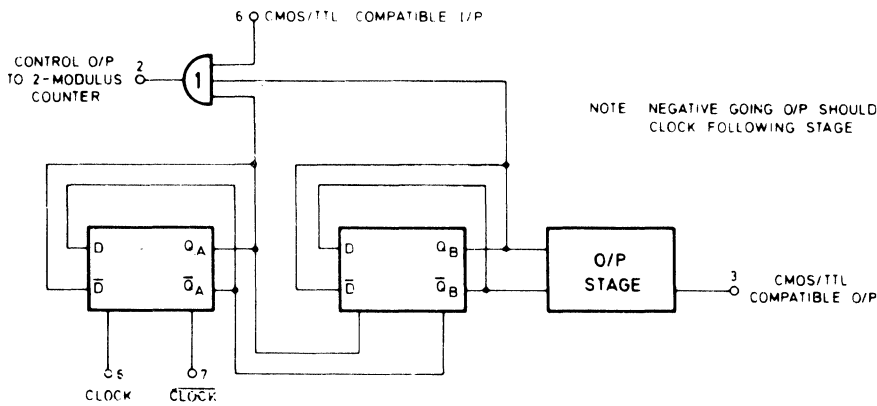
H03-13



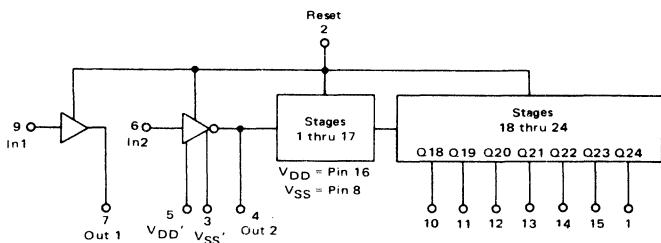
H03-14



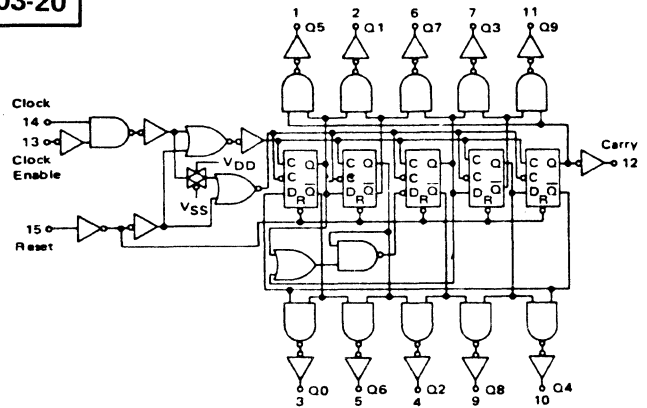
H03-16



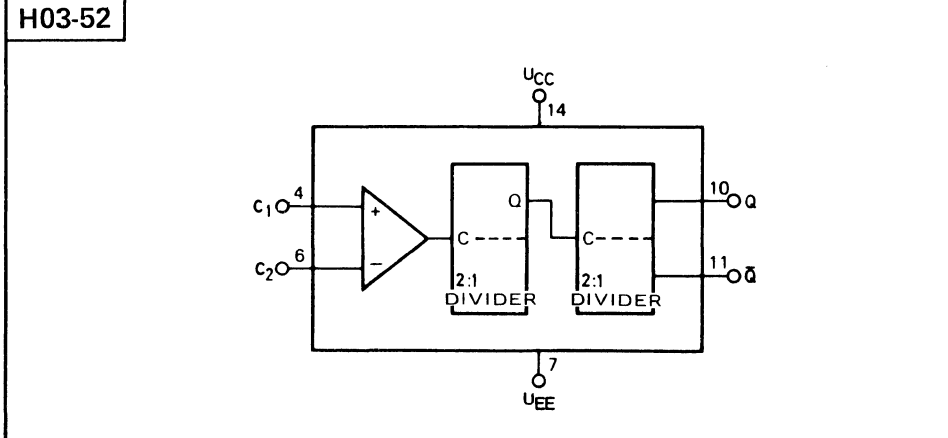
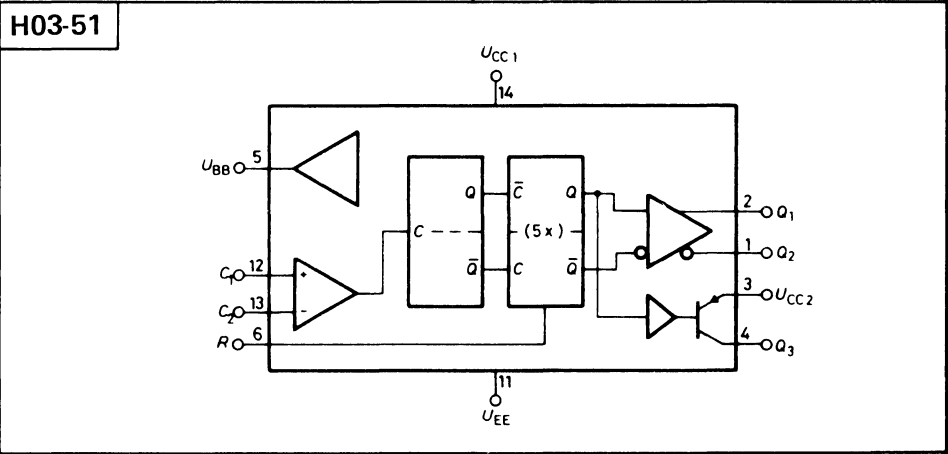
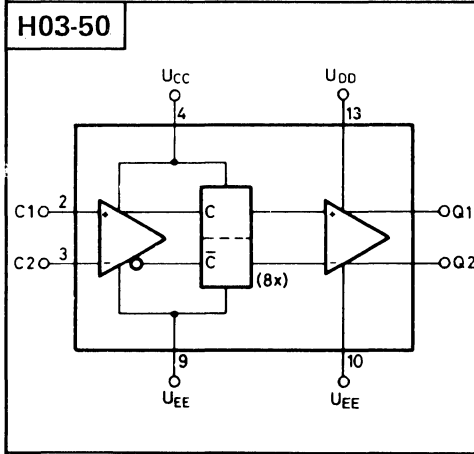
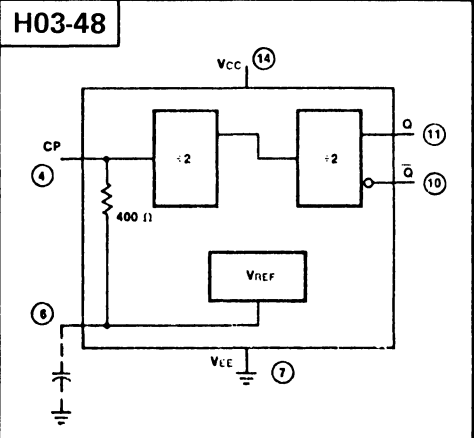
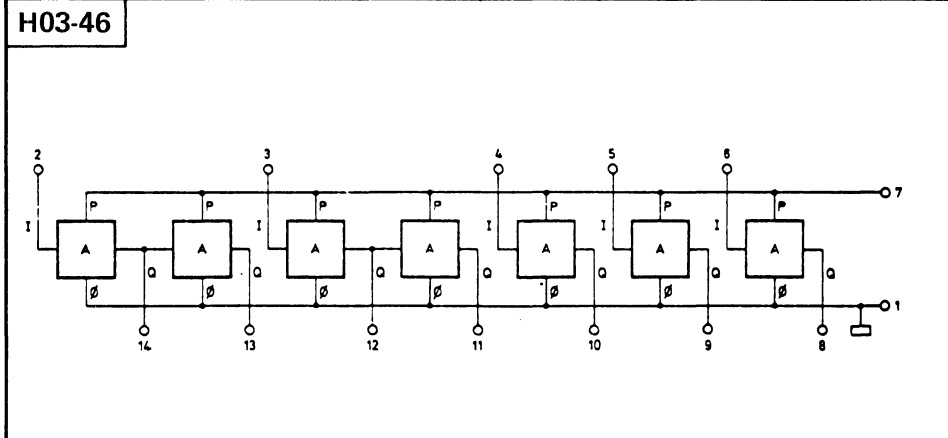
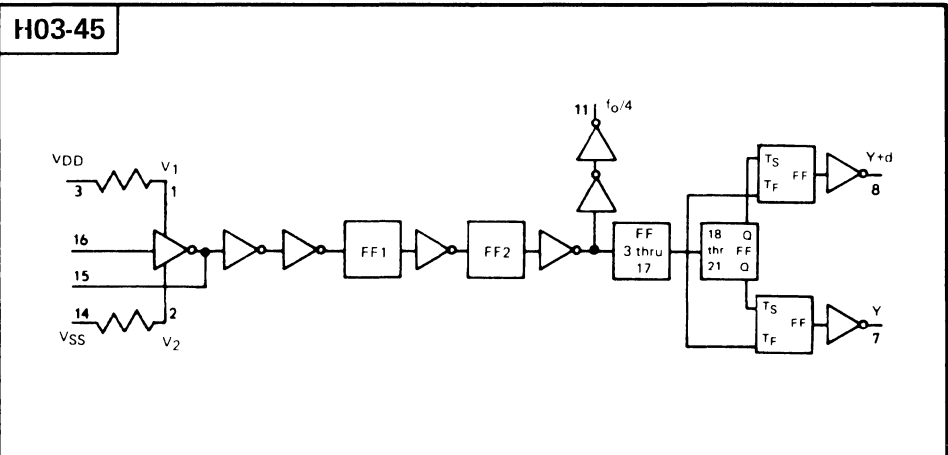
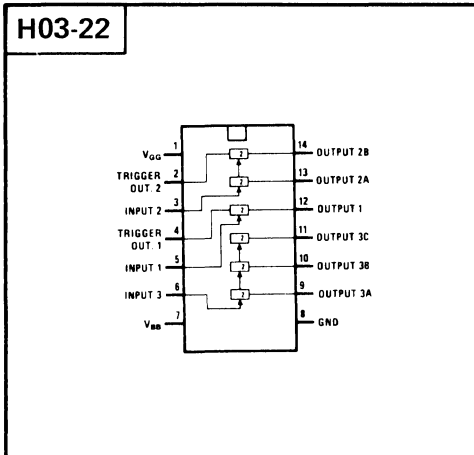
H03-17



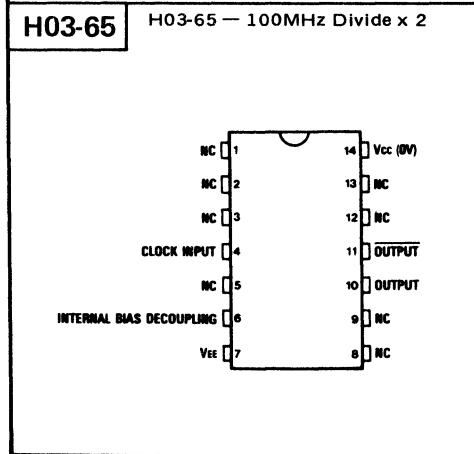
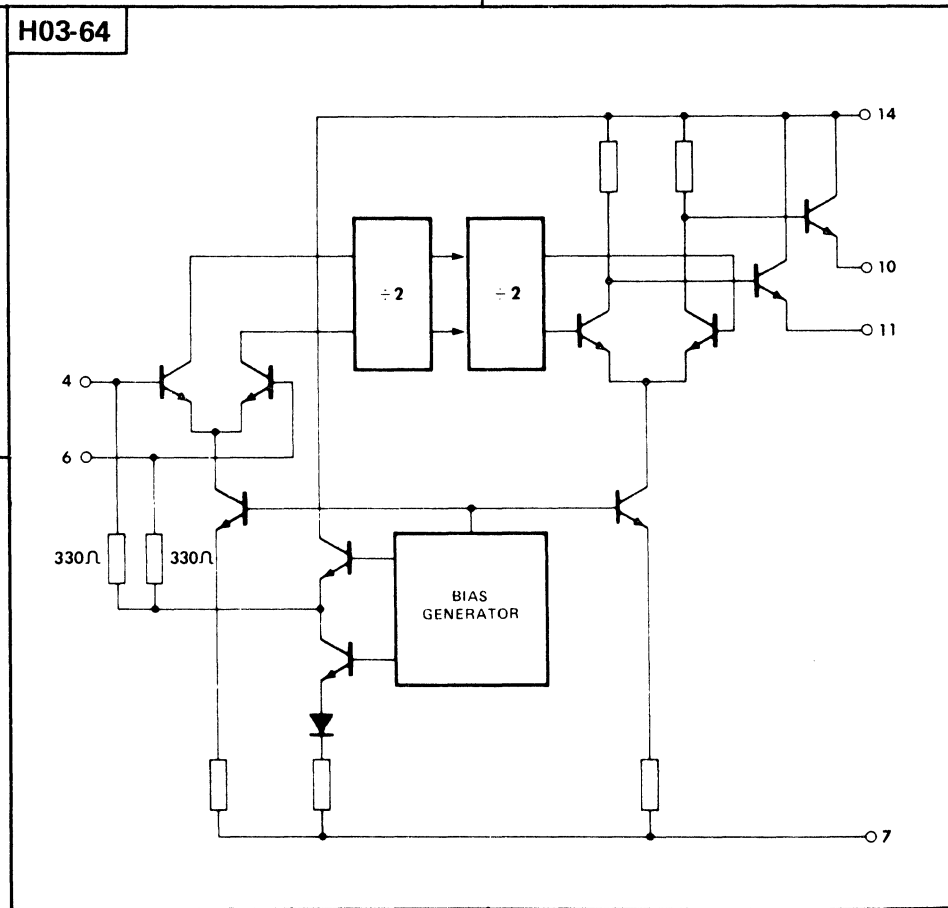
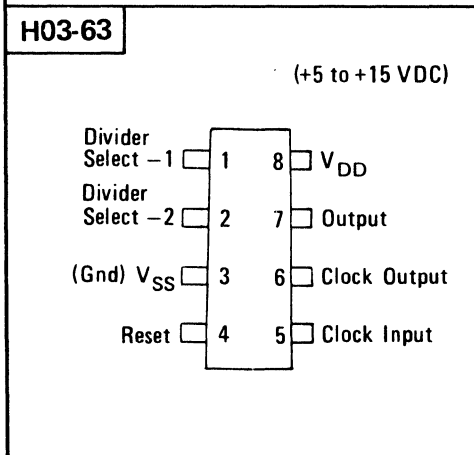
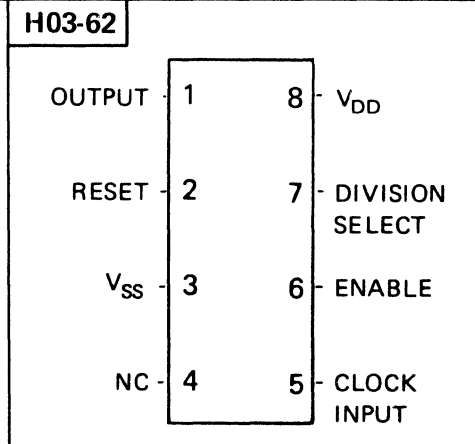
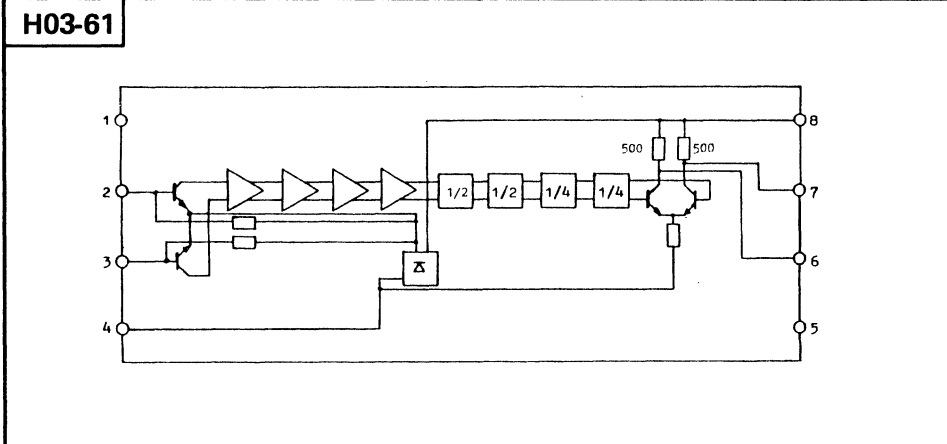
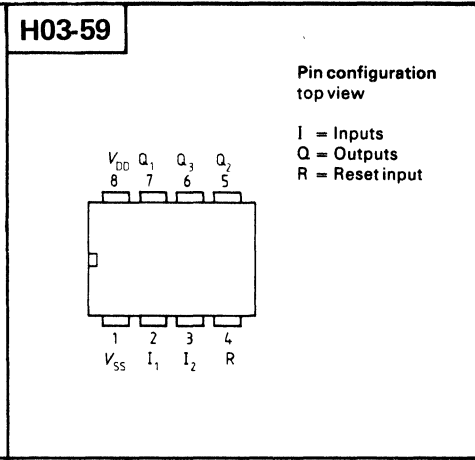
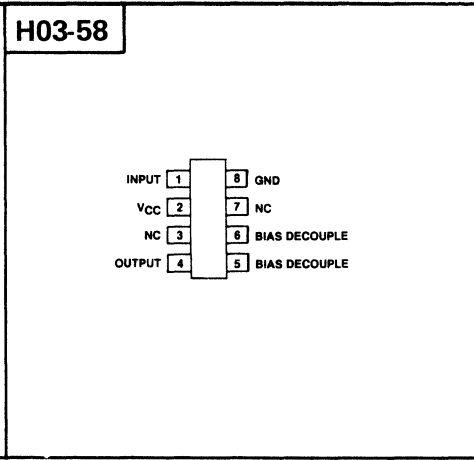
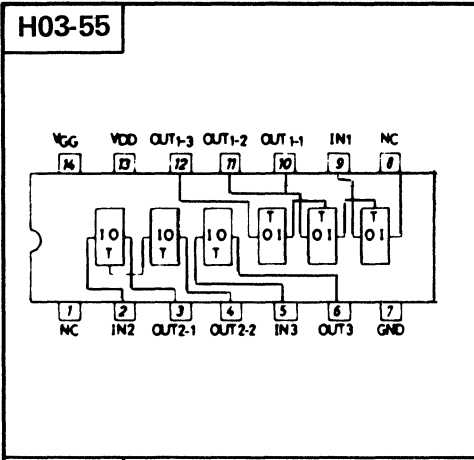
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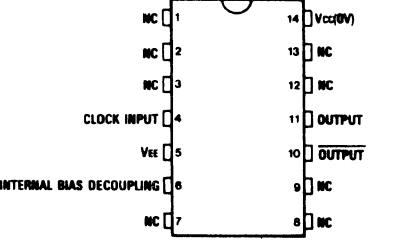
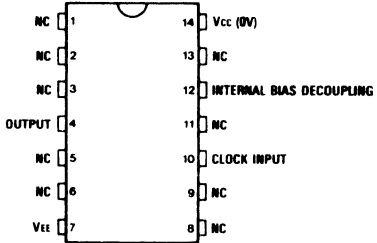
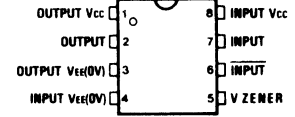
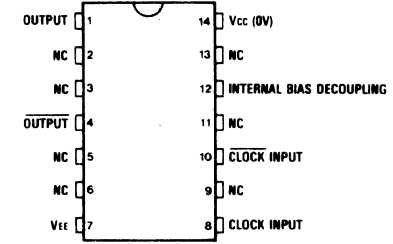
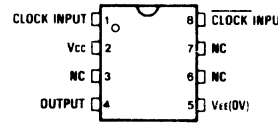
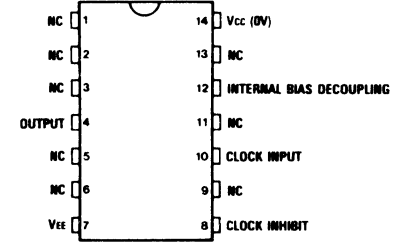
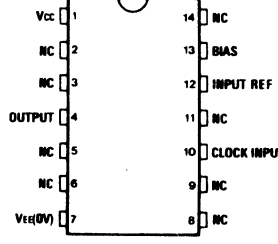
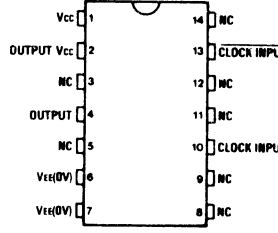
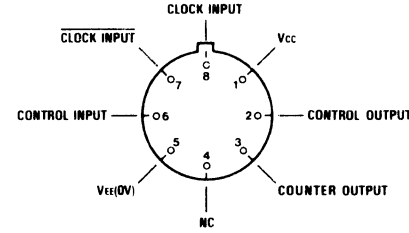
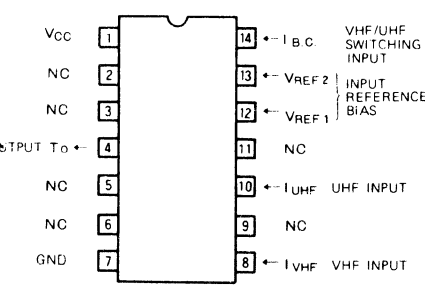
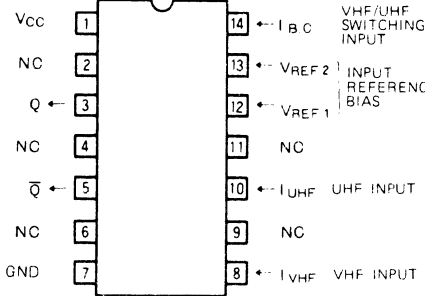
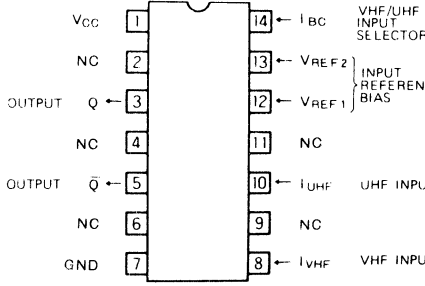
29. LOGIC/BLOCK DRAWINGS



29. LOGIC/BLOCK DRAWINGS



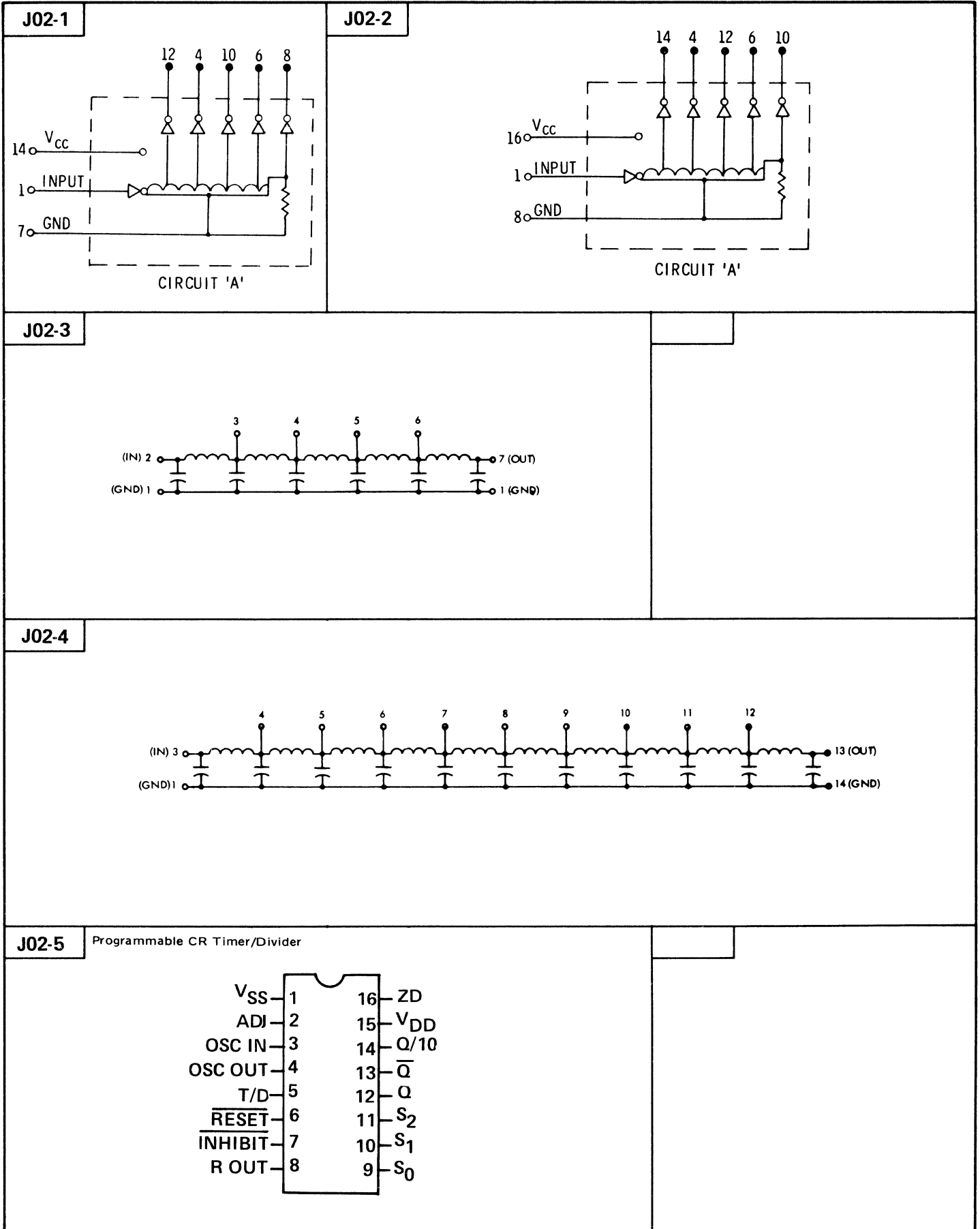
29. LOGIC/BLOCK DRAWINGS

<p>H03-66 H03-66 — 1.0GHz Divide x 4 H03-66a — 1.3G/1.5GHz Divide x 4 H03-66b — 1.8GHz Divide x 4 H03-66c — 1.3GHz Divide x 4 H03-66d — 1.5GHz Divide x 4</p> 	<p>H03-67 H03-67 — 400MHz Divide x 5 H03-67a — 600MHz Divide x 10</p> 	<p>H03-68 150MHz Divide x 100</p> 
<p>H03-75 H03-75 — 600MHz Divide x 16 H03-75a — 600MHz Divide x 8</p> 	<p>H03-76 H03-76 — 200MHz Divide x 20 H03-76a — 150MHz Divide x 10</p> 	<p>H03-79 H03-79 — 1.0GHz Divide x 8 H03-79a — 1.5GHz Divide x 8</p> 
<p>H03-81 1.2G Divide x 64</p> 	<p>H03-82 1.25GHz Divide x 256</p> 	<p>H03-83 60MHz Divide x 8 (2 Modulus Extender)</p> 
<p>H03-84</p> 	<p>H03-85</p> 	<p>H03-86</p> 

29. LOGIC/BLOCK DRAWINGS

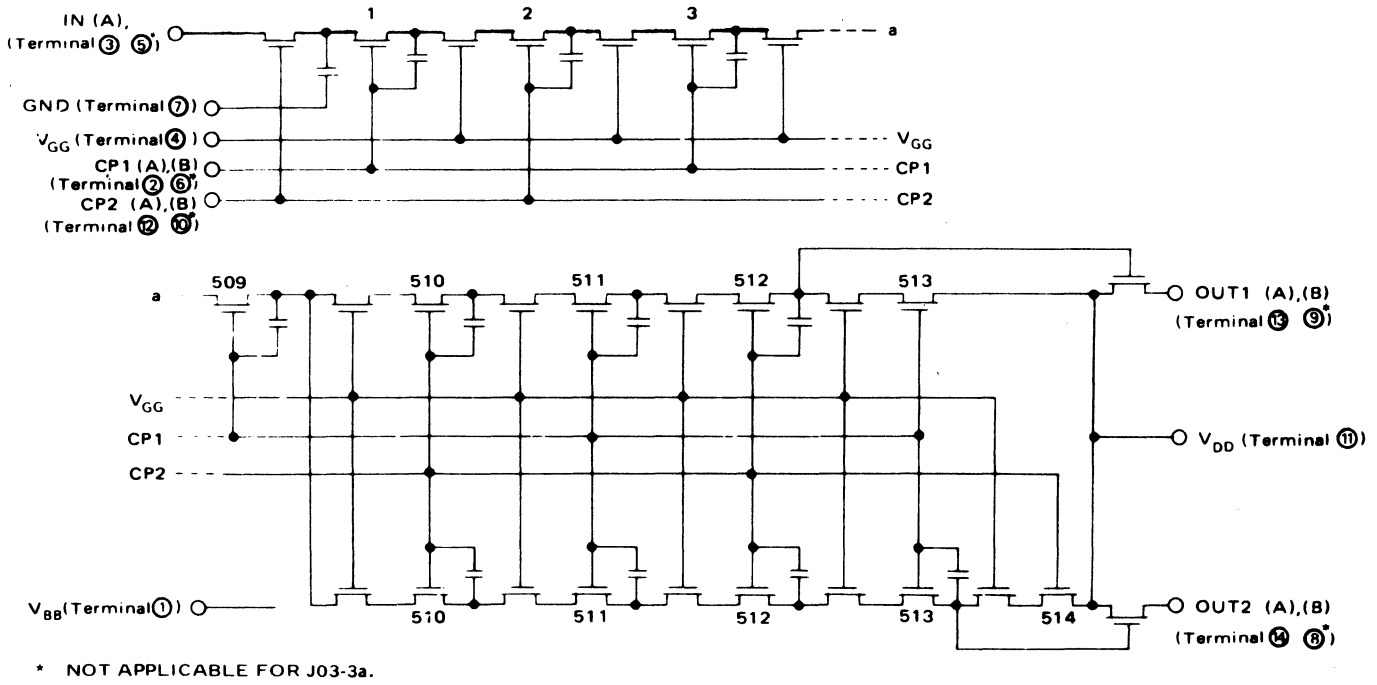
<p>H03-87</p> <p>SAB 1164</p> <p>7287382</p>	<p>H04-02</p> <p>Dual-In-Line Package</p>	<p>H04-03</p>
<p>H04-04</p>		

29. LOGIC/BLOCK DRAWINGS

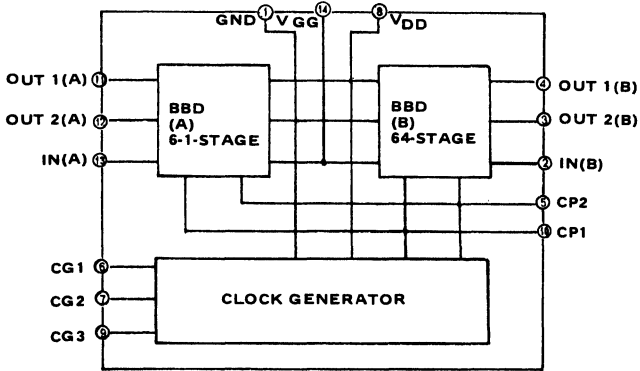


29. LOGIC/BLOCK DRAWINGS

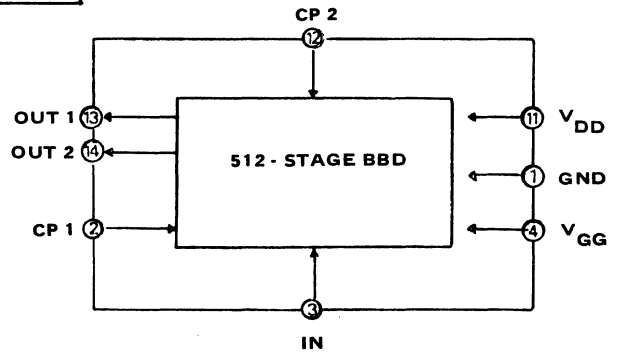
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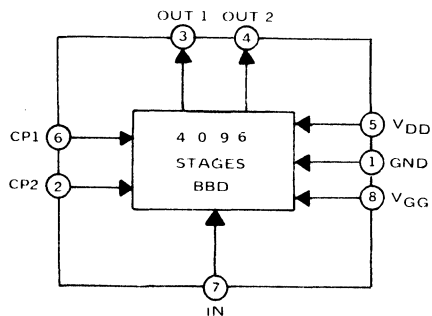
J03-4



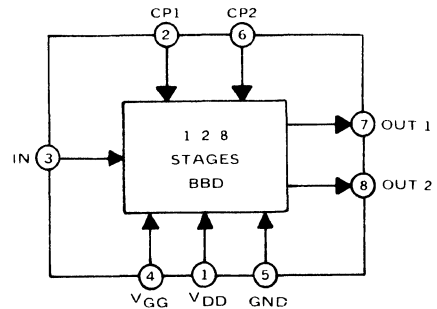
J03-5



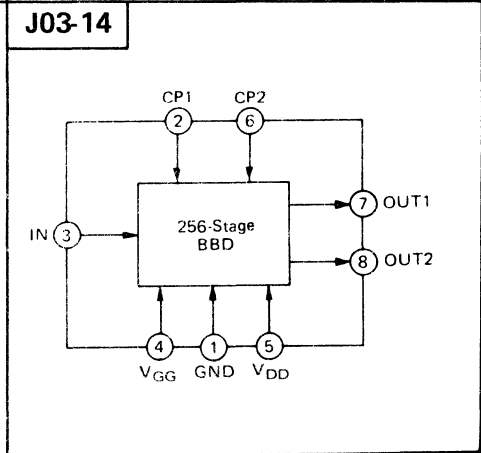
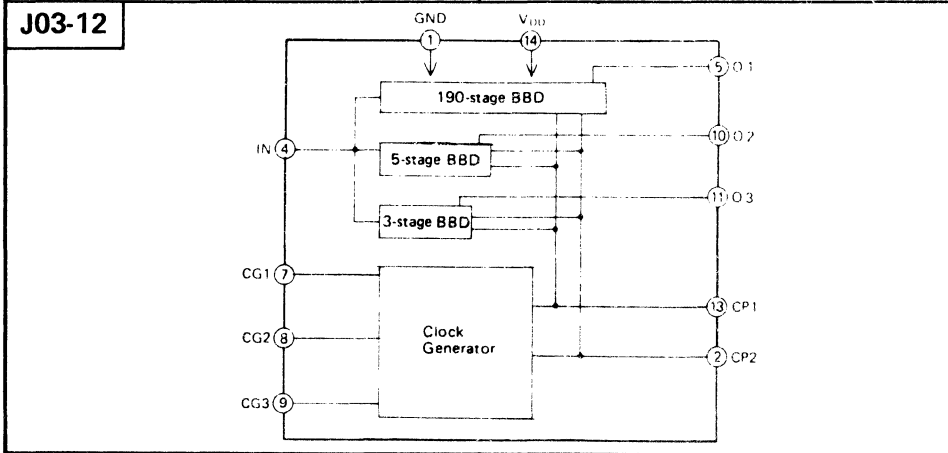
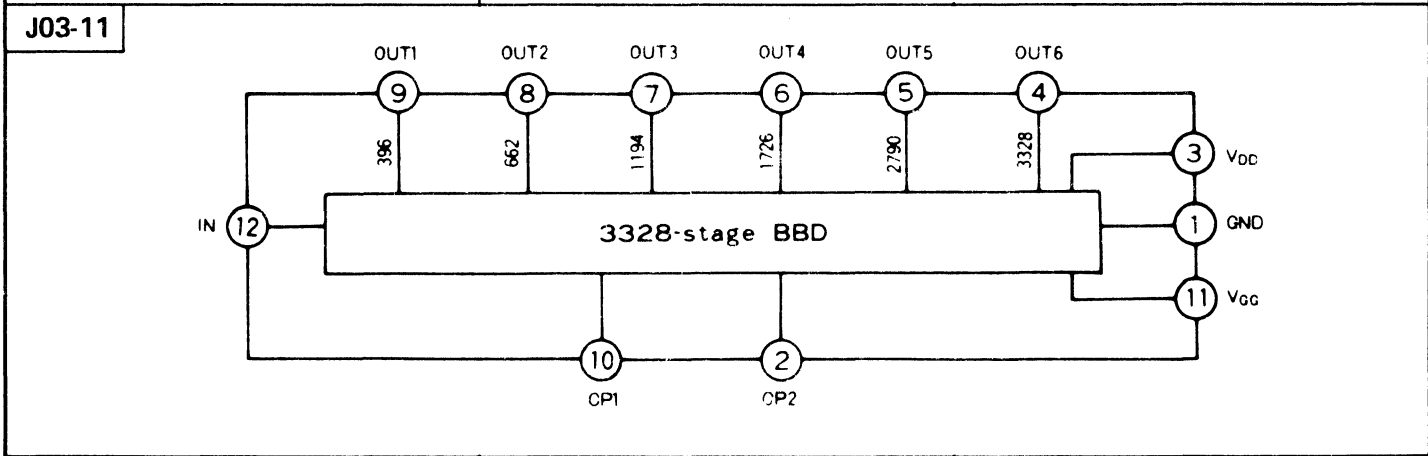
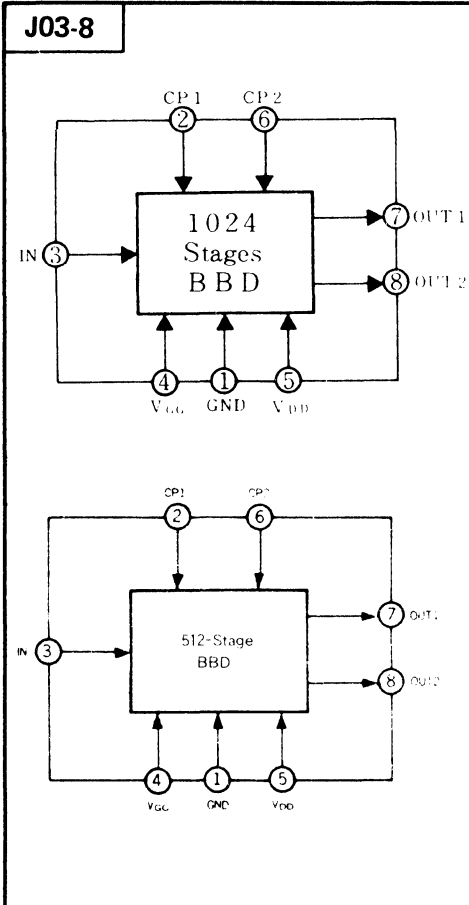
J03-6



J03-7

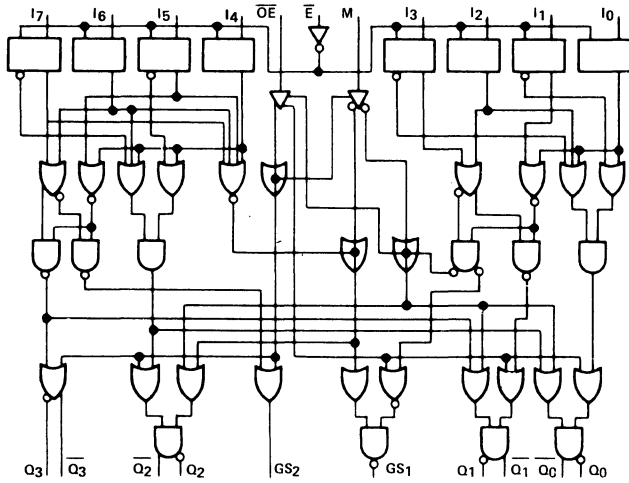


29. LOGIC/BLOCK DRAWINGS



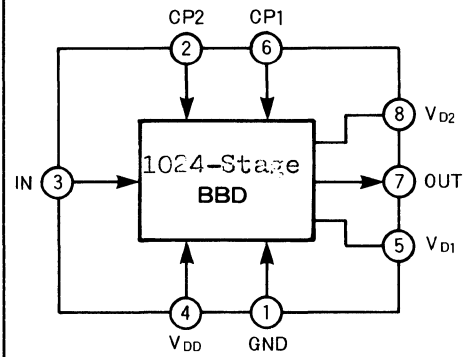
29. LOGIC/BLOCK DRAWINGS

J03-15

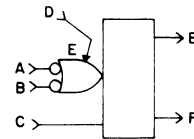


J03-16

1024 Stage Bucket Brigade Device

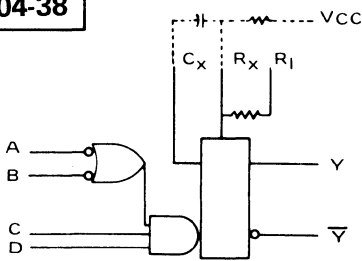


J04-33



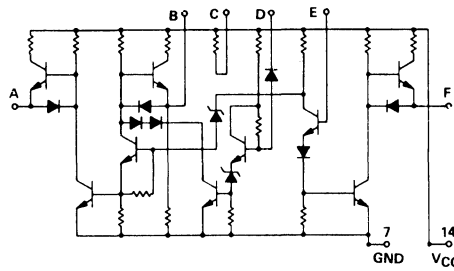
	PRESENCE OF DIODES		
	D1	D2	D3
J0433	YES	YES	NO
J0433A	YES	YES	YES
J0433B	NO	NO	NO

J04-38



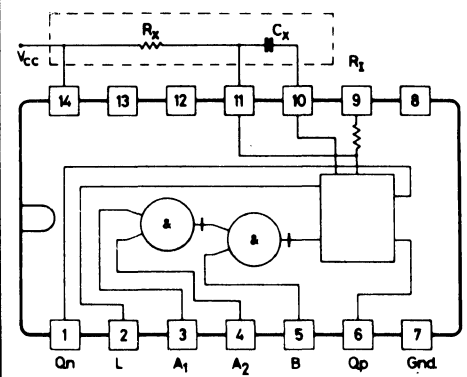
	A	B	C	D	CX	RX	R1	Y	Y-bar
J04-38	1	2	3	4	11	13	7	5	6
J04-38a	3	4	5	10	11	9	6	1	14

J04-40

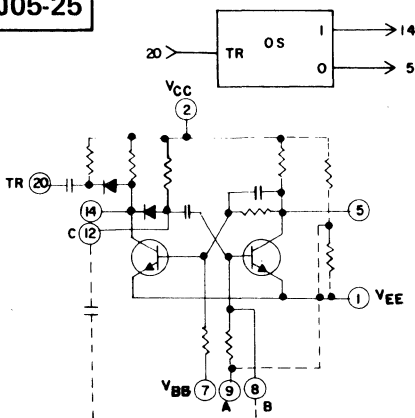


	A	B	C	D	E	F
J04-40	1	2	3	4	5	6
J04-40a	7	8	9	10	11	12

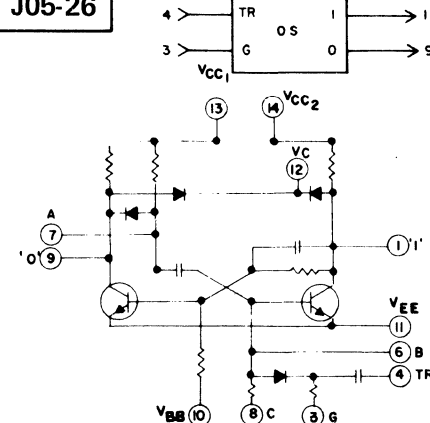
J04-42



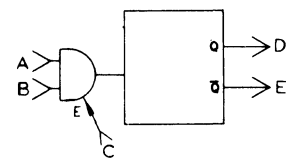
J05-25



J05-26



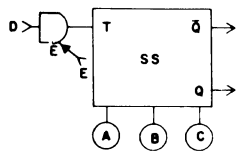
J05-45



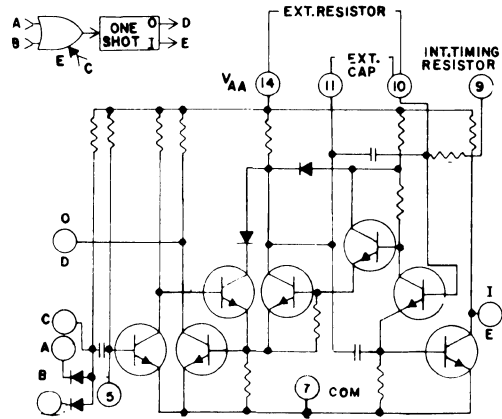
CKT NO.	A	B	C	D	E	F	G	H	J	VCC	COM	PKG.	
J05-45	1	3	4	2	1	6	11	10	9	5	14	7	MPFP
J05-45A	1	9	8	7	10	4	3	2	6	1	1	CN	

29. LOGIC/BLOCK DRAWINGS

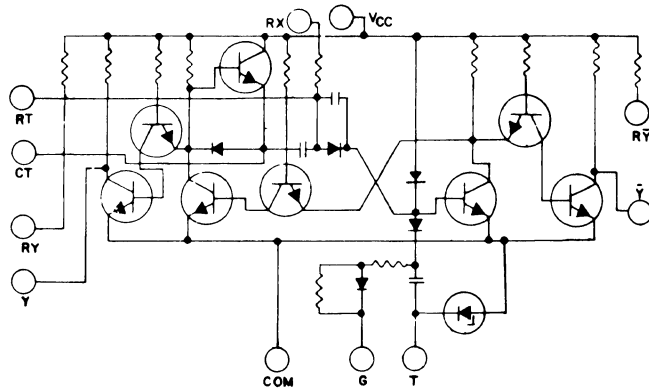
J05-49



J05-63

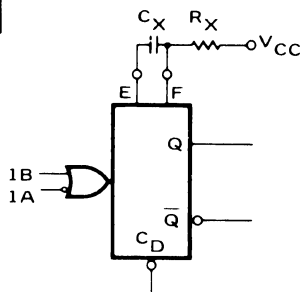


J05-71



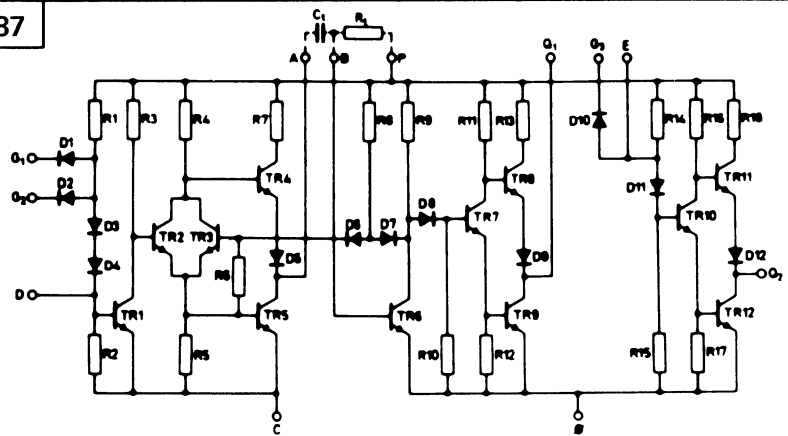
	G	T	RY	CT	RT	RX	RY	Y	Y	VCC	COM
FP	13	14	8	7	6	3	2	1	9	4	11
MP	9	10	3	2	1	13	12	11	4	14	7

J05-82

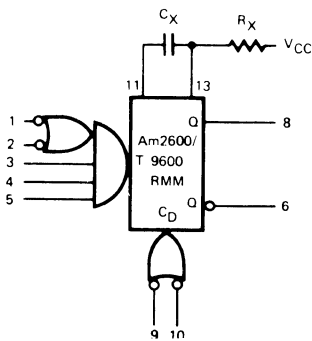


	CKT	1A	1B	Q	Q	CD	E	F	VCC	GND
J05-82	1	5	4	6	7	3	1	2	16	8
J05-82a	1	1	2	13	4	3	14	15		
	2	9	10	5	12	11	6	7		

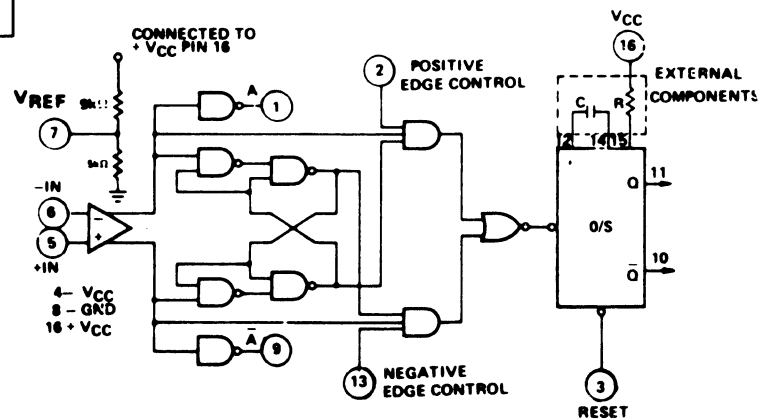
J05-87



J05-86

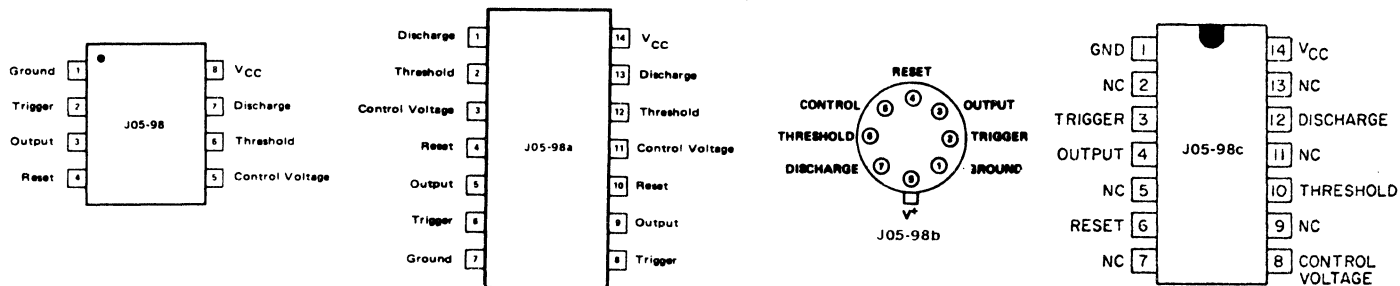


J05-89

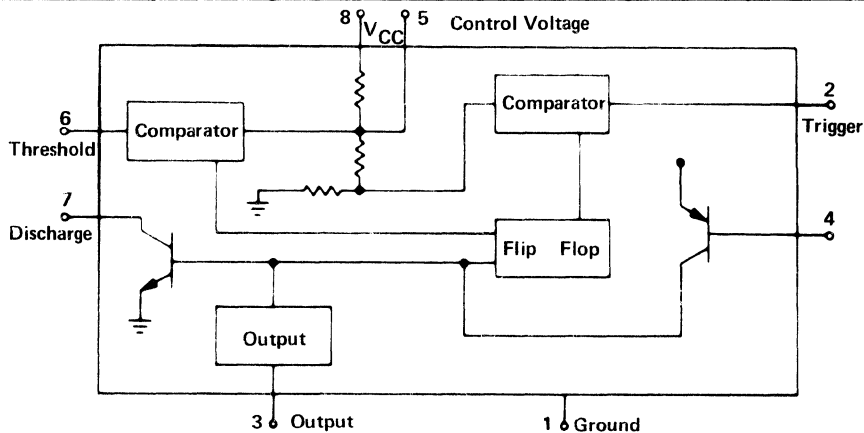


29. LOGIC/BLOCK DRAWINGS

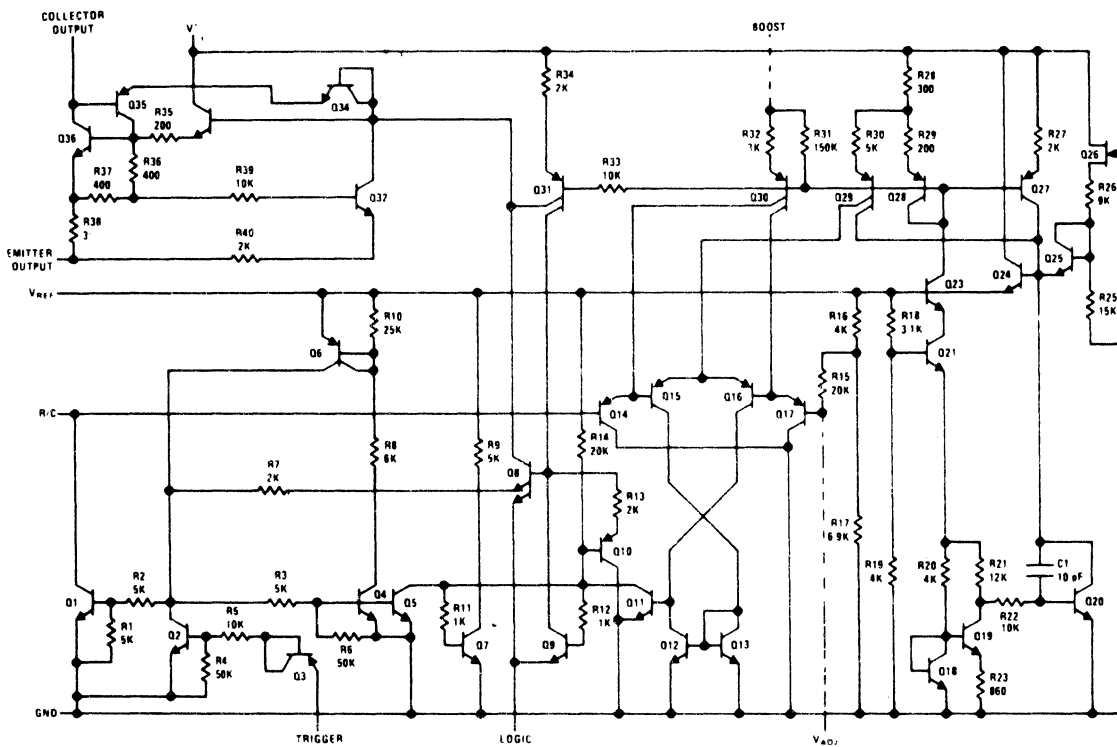
J05-98



J05-99



J05-100

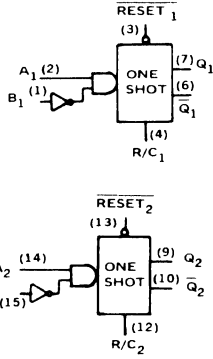


	PKG	COLL	OUTP	EM	R/C	ROOST	TRIG	LOGIC	VREF	VADJ	V+	GND
J05-100	CN	PF	9	10	4	8	2	1	3	6	7	5
	M		12	1	5	11	3	2	4	7	10	6
J05-100a	M		6	7	3		1	8	2		5	4

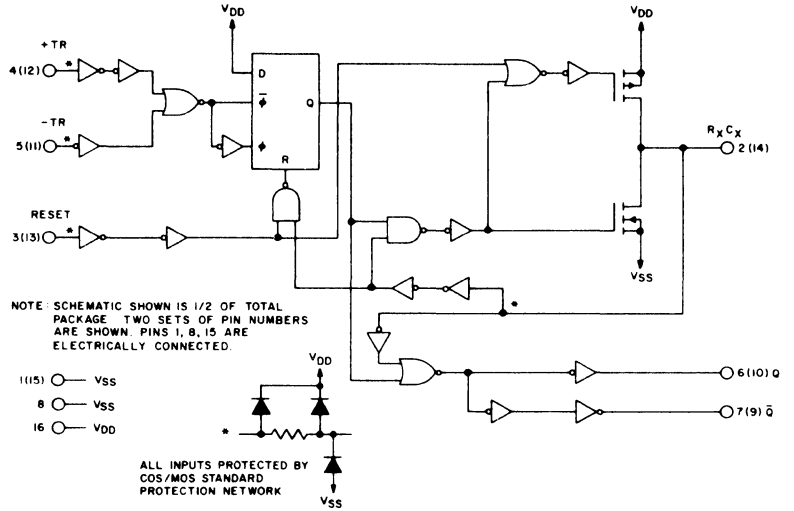
DOTTED PORTIONS
OMITTED ON J05-100a

29. LOGIC/BLOCK DRAWINGS

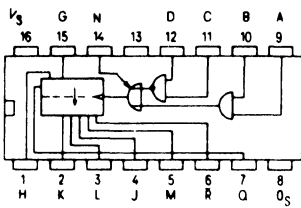
J05-102



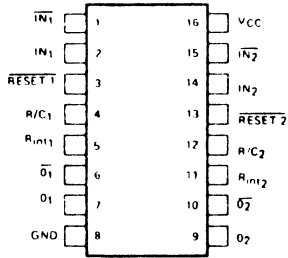
J05-104



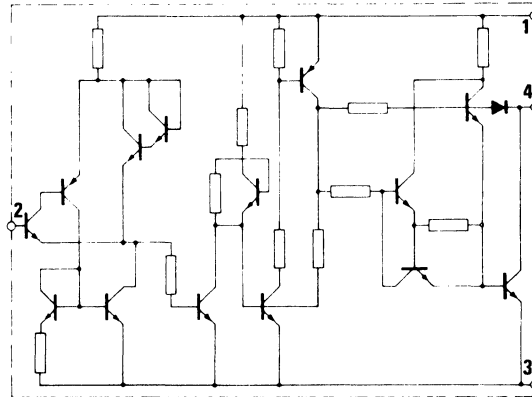
J05-103



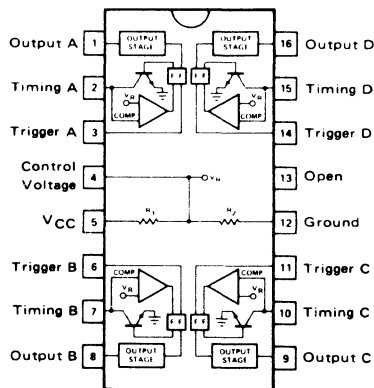
J05-107



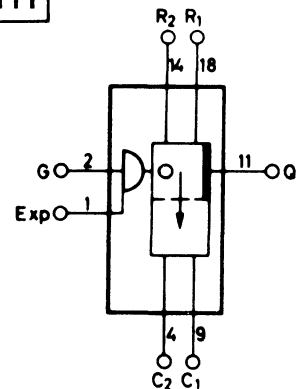
J05-109



J05-110

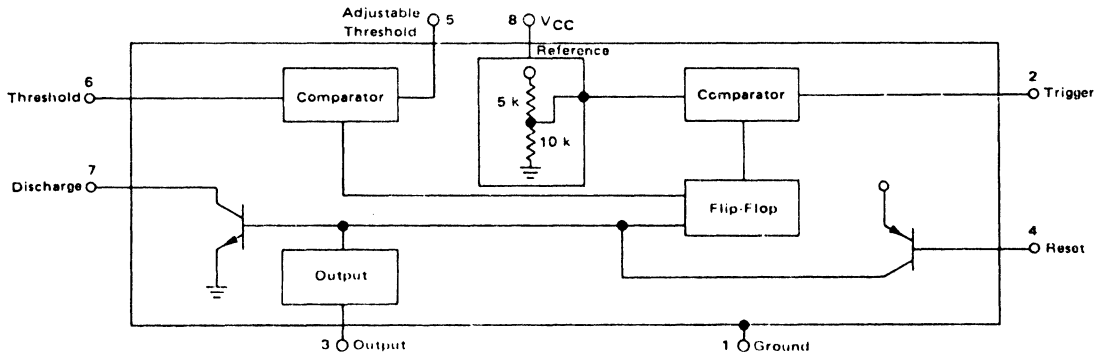


J05-111

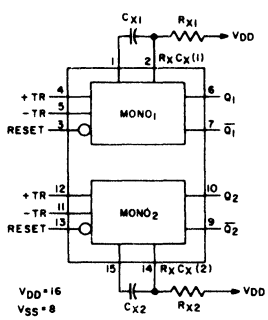


29. LOGIC/BLOCK DRAWINGS

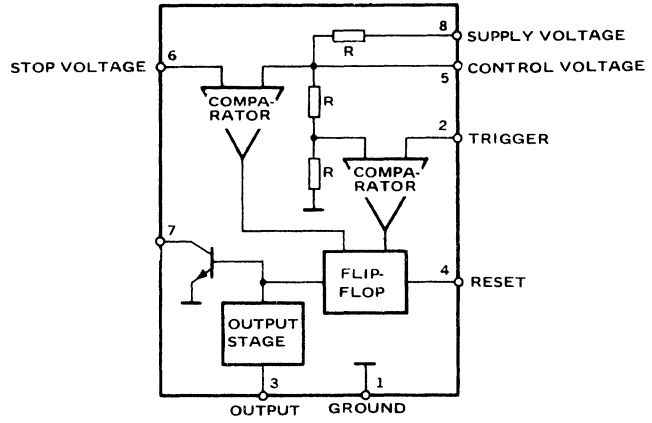
J05-112



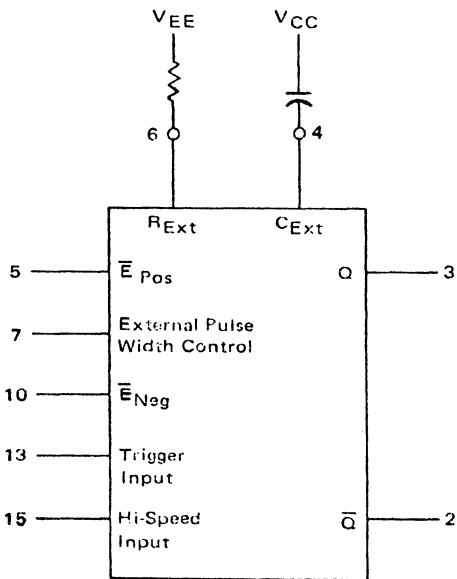
J05-113



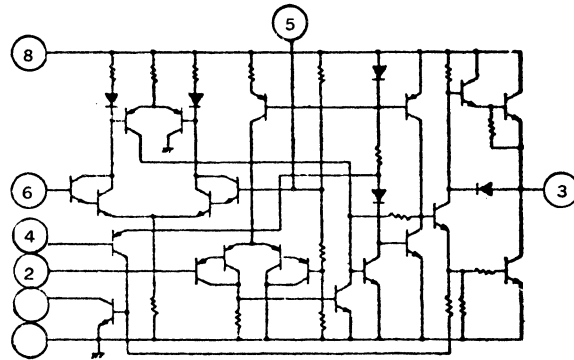
J05-114



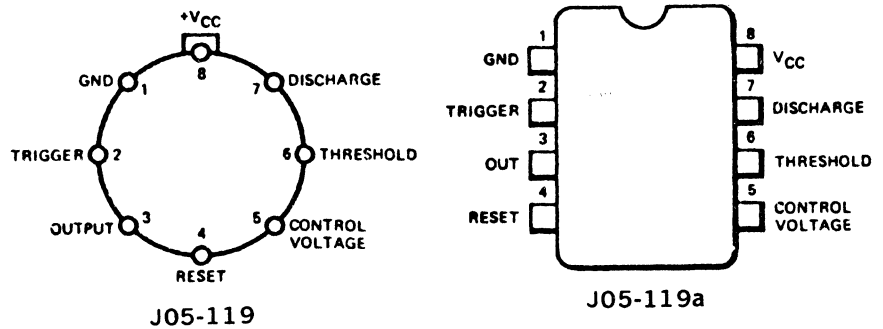
J05-116



J05-117

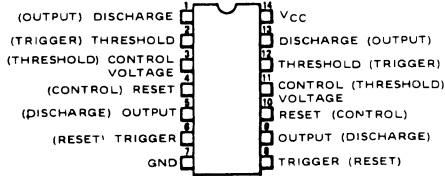


J05-119



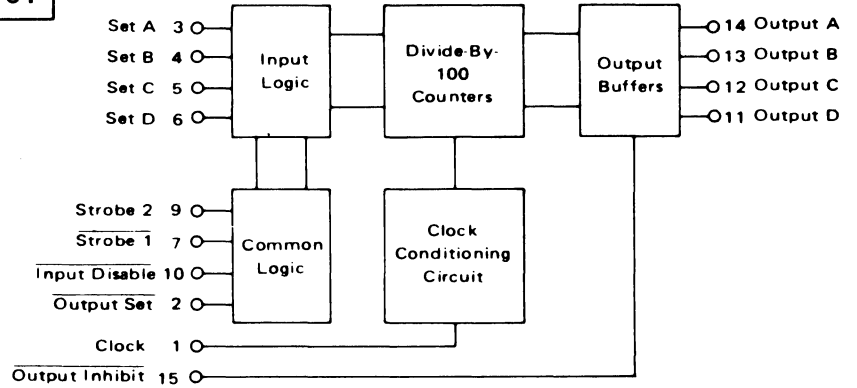
29. LOGIC/BLOCK DRAWINGS

J05-120

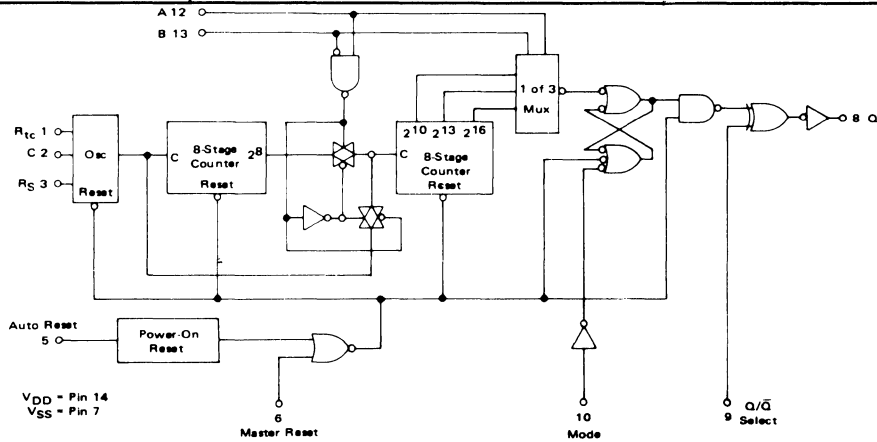


NOTE: PIN DESIGNATIONS IN PARENTHESIS ARE FOR J05-120a.

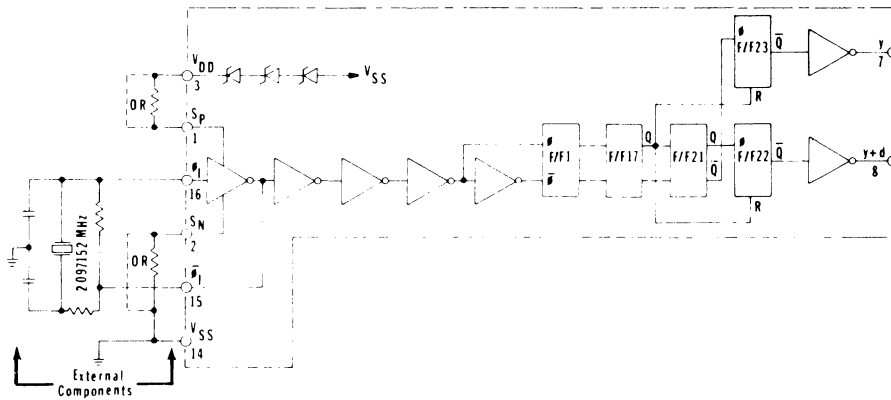
J06-01



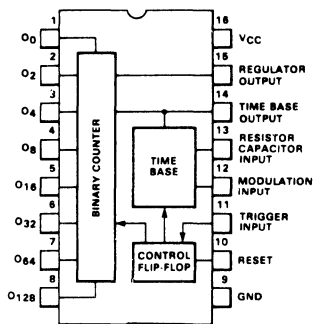
J06-02



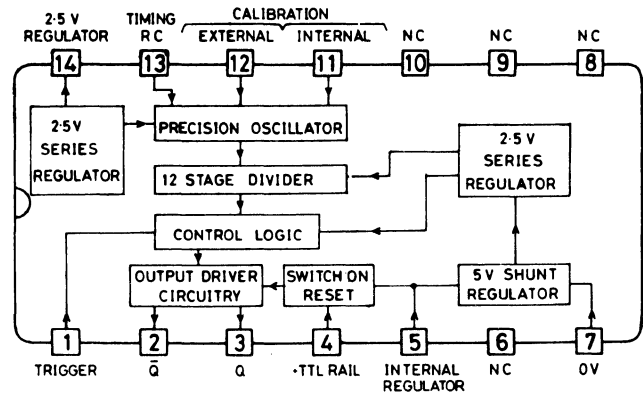
J06-03



J06-04

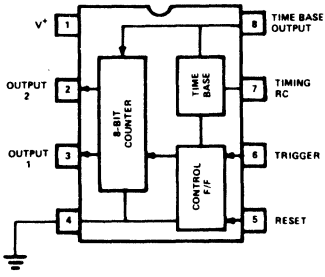


J06-07

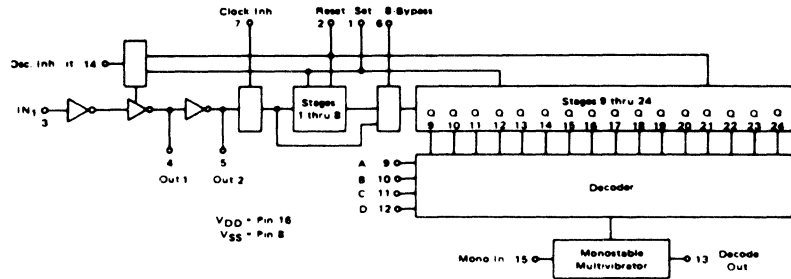


29. LOGIC/BLOCK DRAWINGS

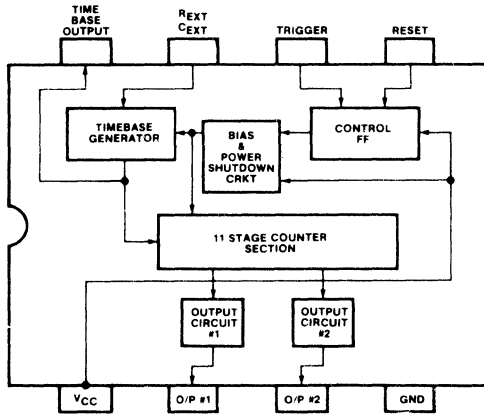
J06-08



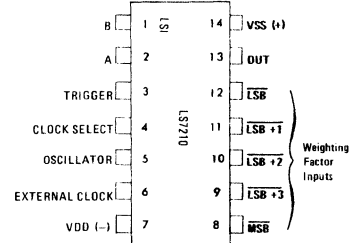
J06-12



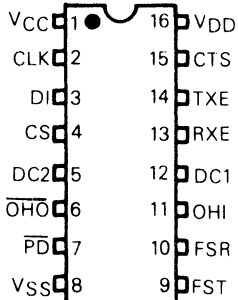
J06-13



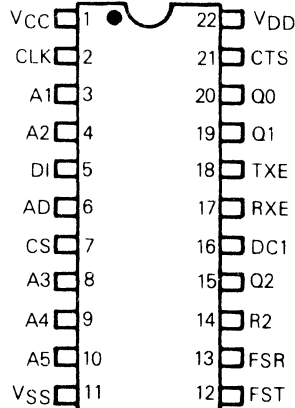
J06-14



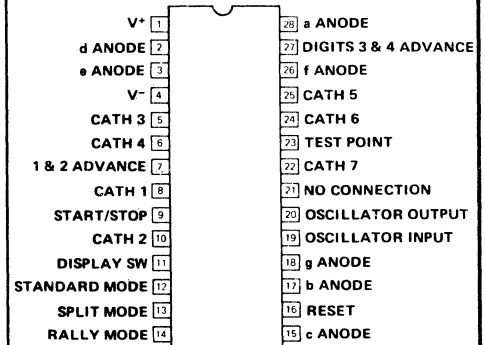
J06-15



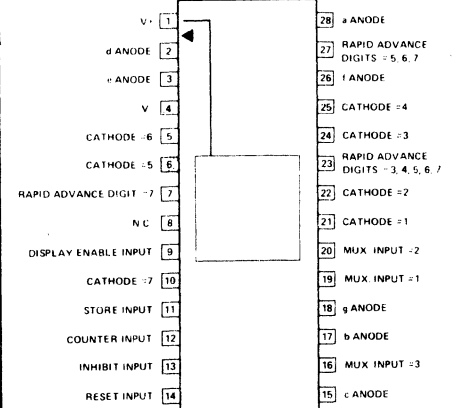
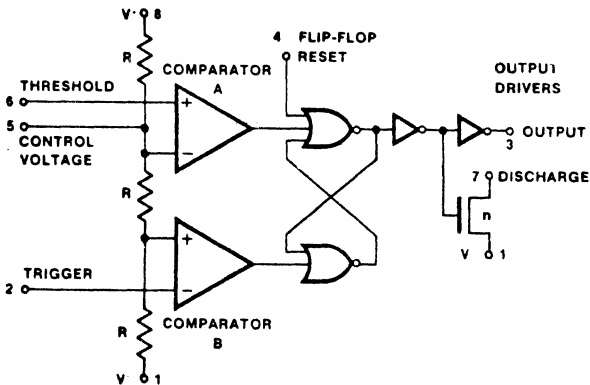
J06-16



J07-01

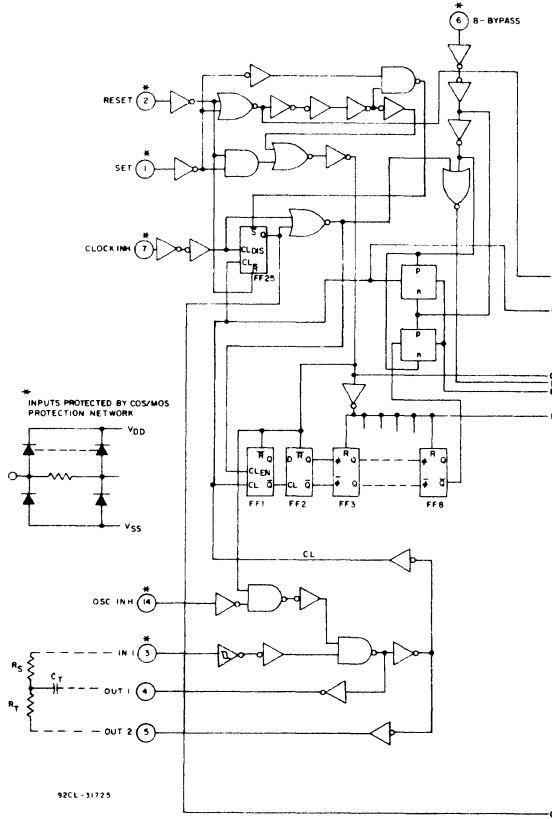


J07-02

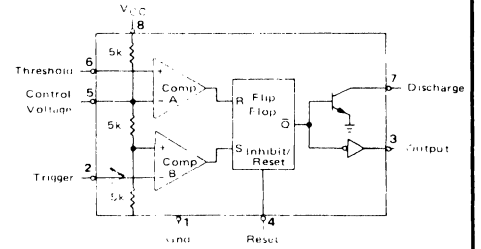


29. LOGIC/BLOCK DRAWINGS

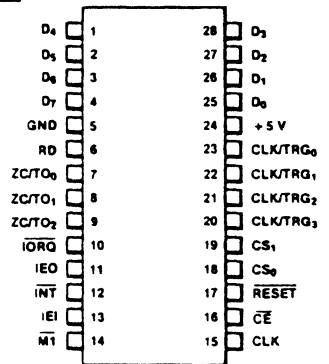
J07-03



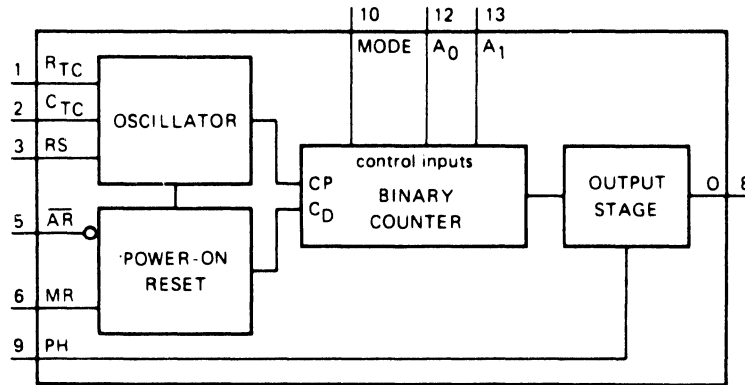
J07-04



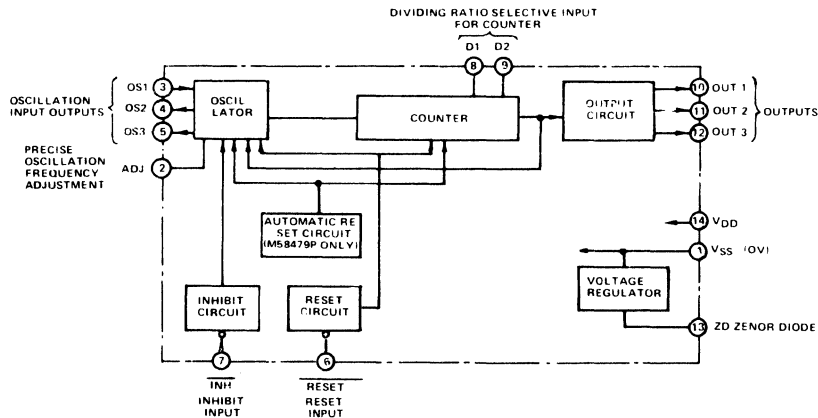
J07-05



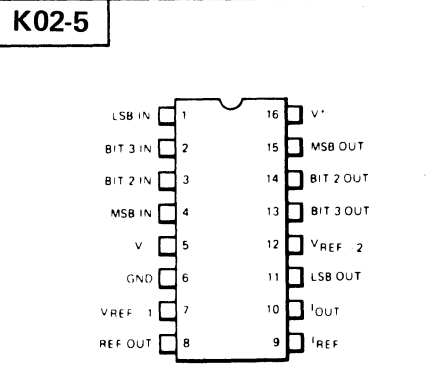
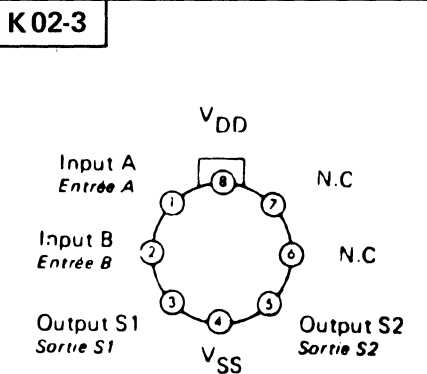
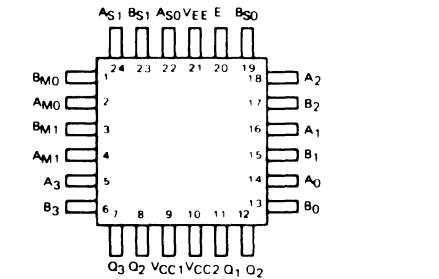
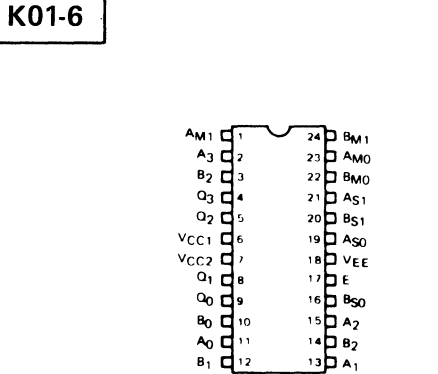
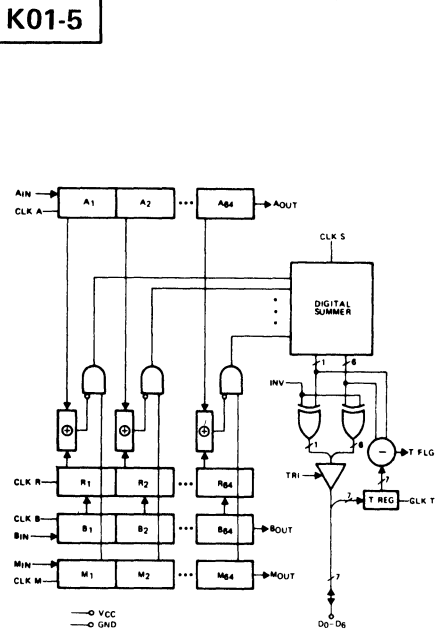
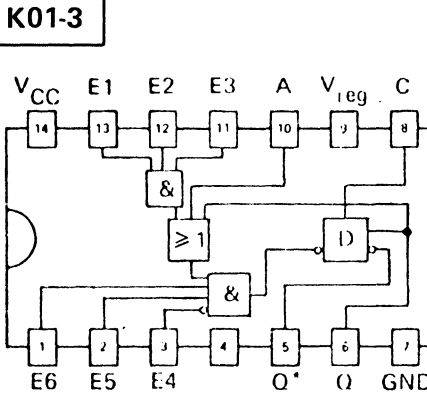
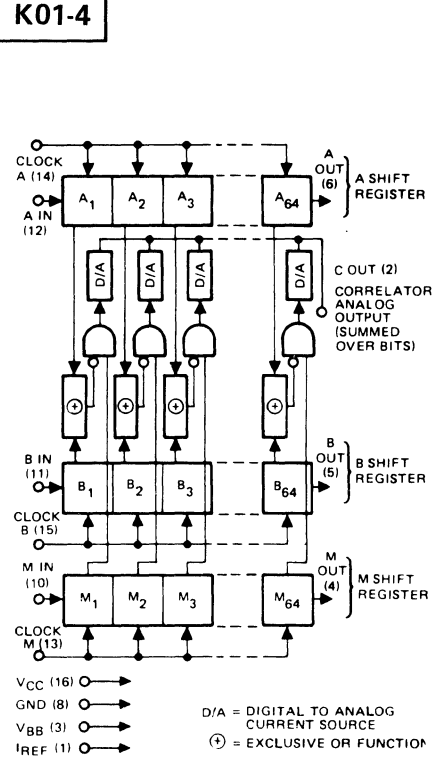
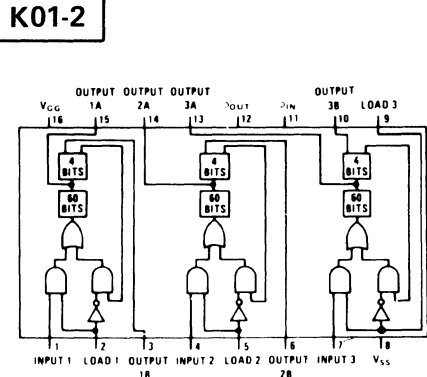
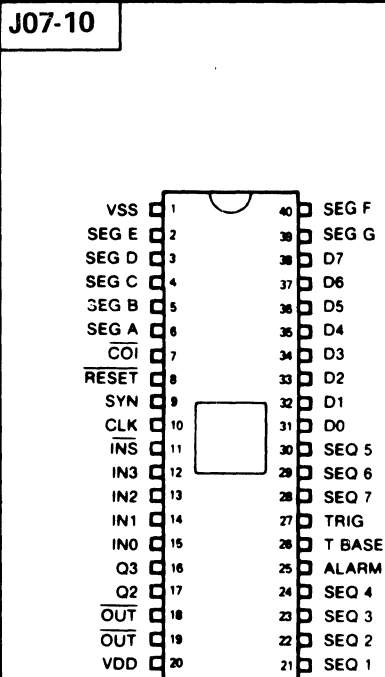
J07-07



J07-08

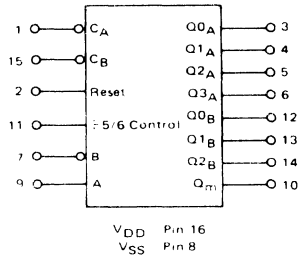


29. LOGIC/BLOCK DRAWINGS

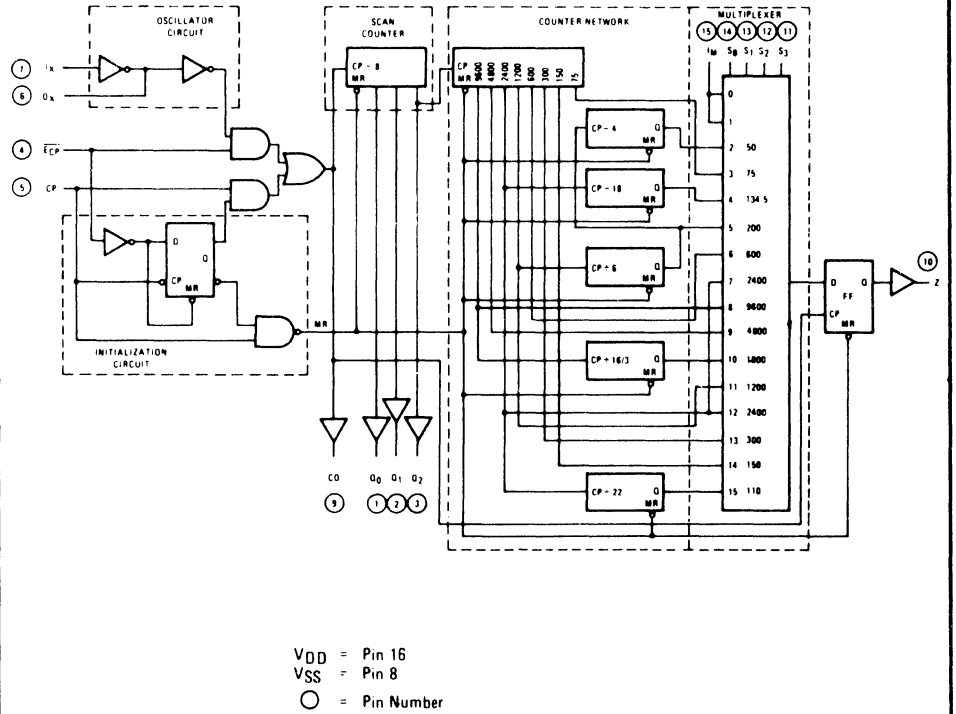


29. LOGIC/BLOCK DRAWINGS

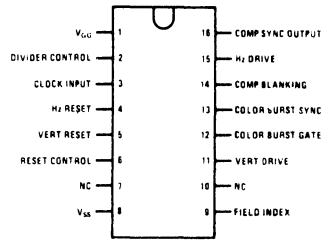
K02-13



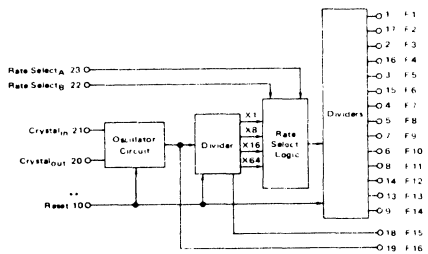
K02-28



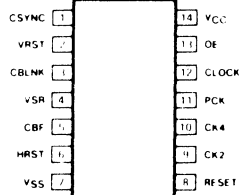
K02-21



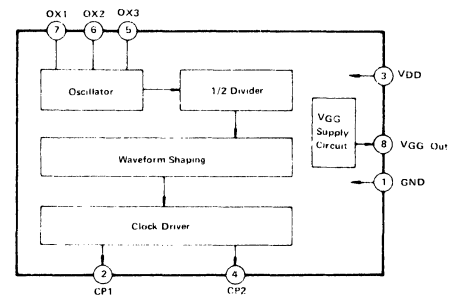
K02-29



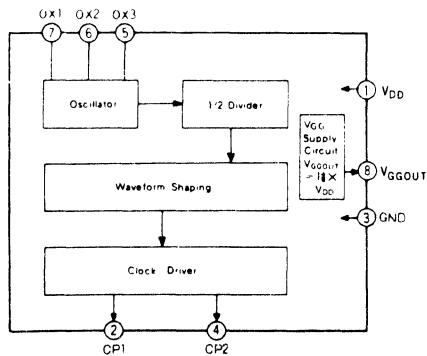
K02-36 Divide x 262



K02-40

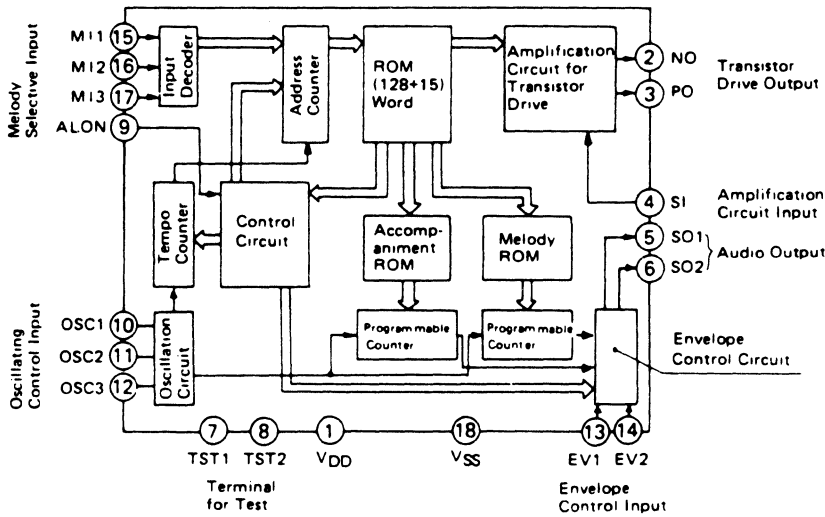


K02-41

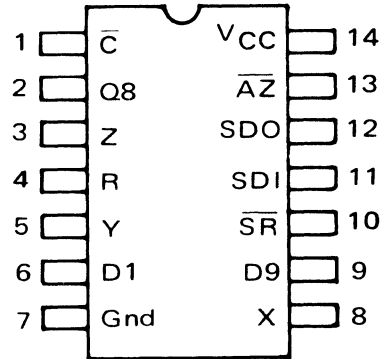


29. LOGIC/BLOCK DRAWINGS

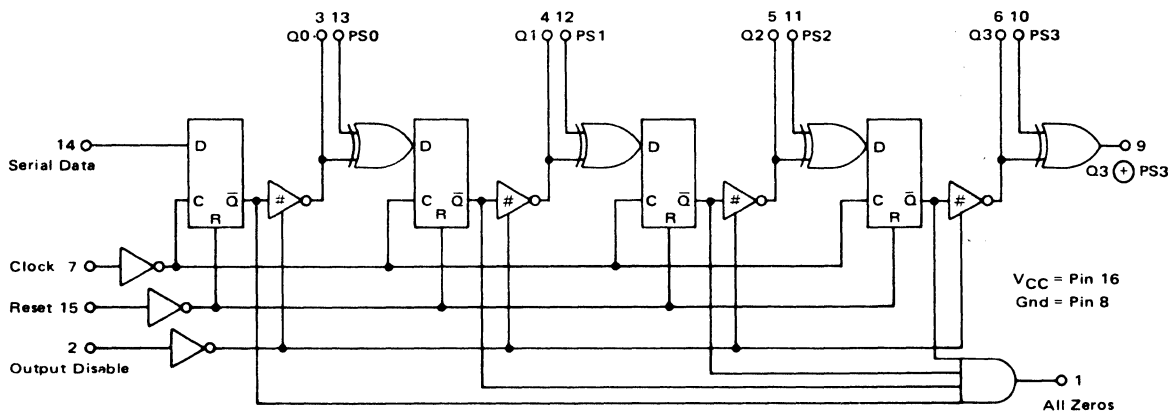
K02-42



K02-43

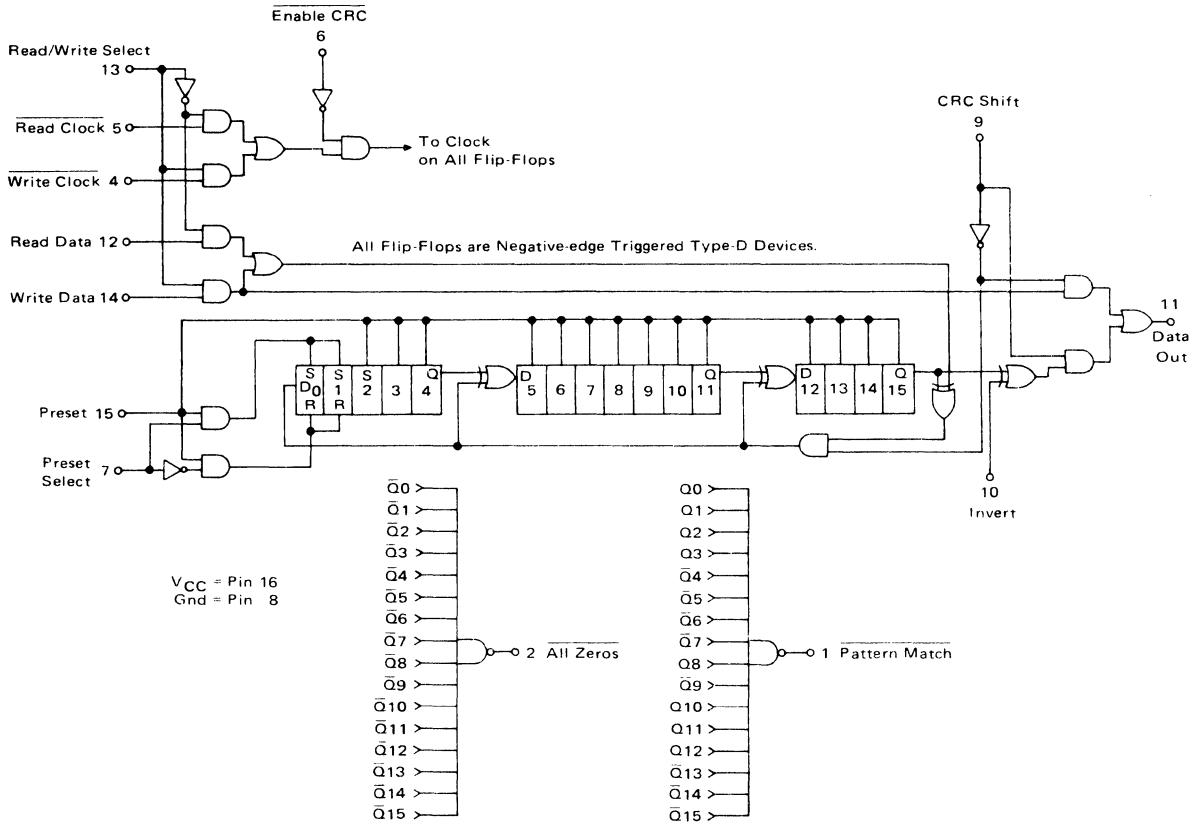


K02-44

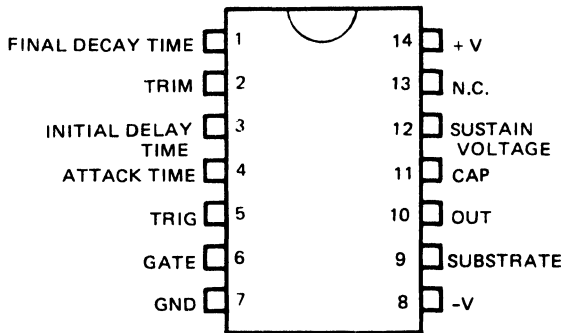


29. LOGIC/BLOCK DRAWINGS

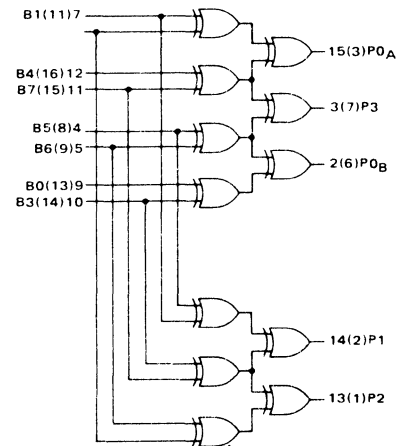
K02-45



K02-46



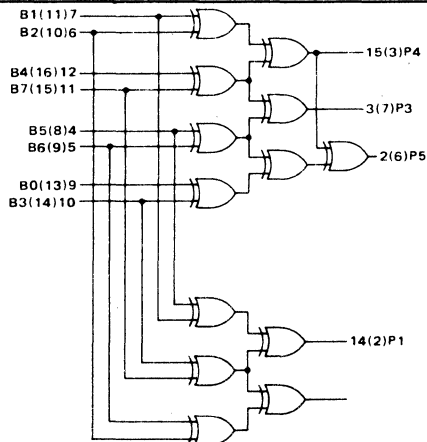
K03-2



K03-3

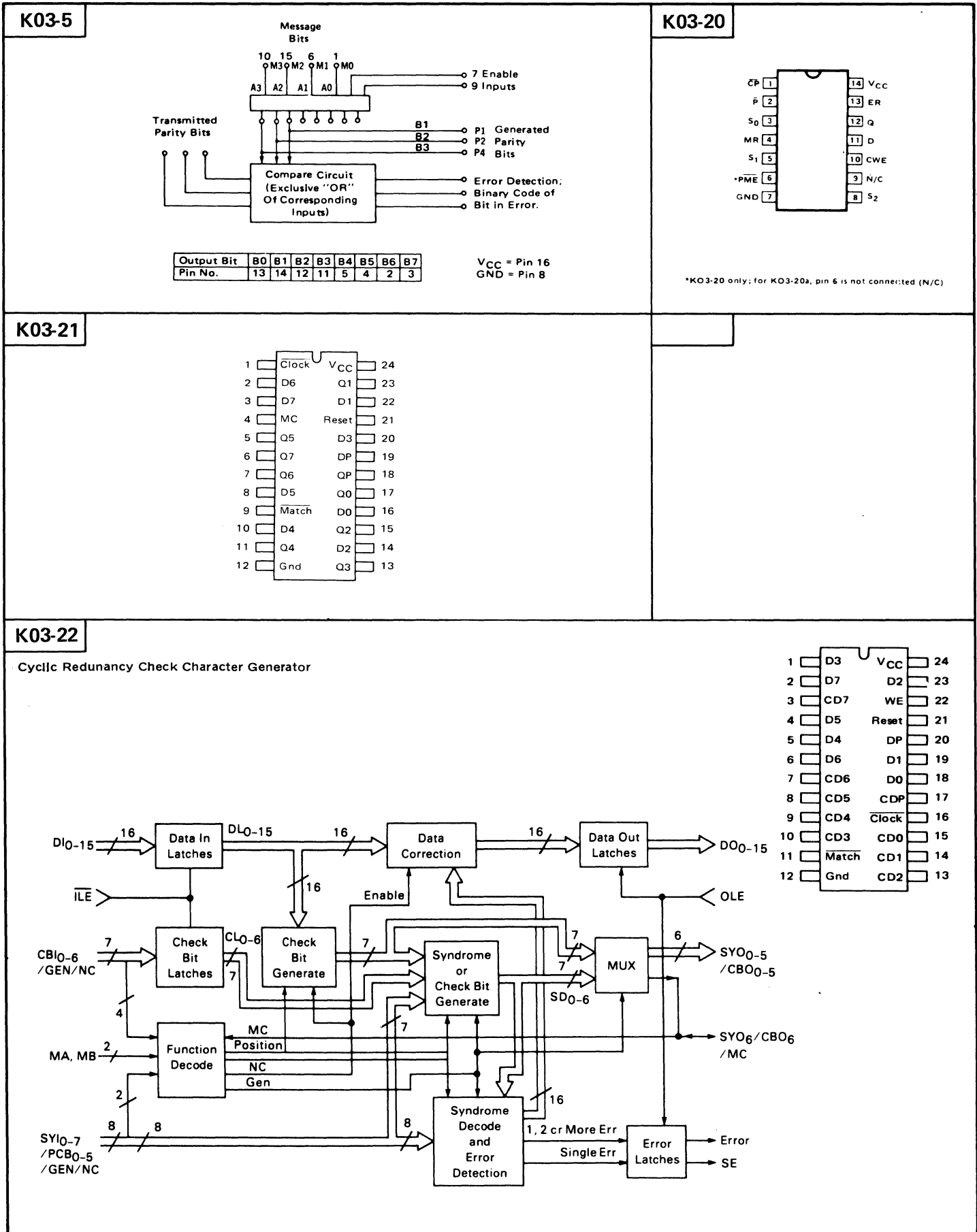
MOTOROLA CODE
P1 = B1, B3, B5, B7
P2 = B2, B3, B6, B7
P3 = B4, B5, B6, B7
P4 = B1, B2, B4, B7
P5 = B7 or (B0, 1, 2, 3, 4, 5, 6, 7)

V_{CC1} = Pin 1(5)
V_{CC2} = Pin 16(4)
V_{EE} = Pin 8(12)
() = FLAT PACK



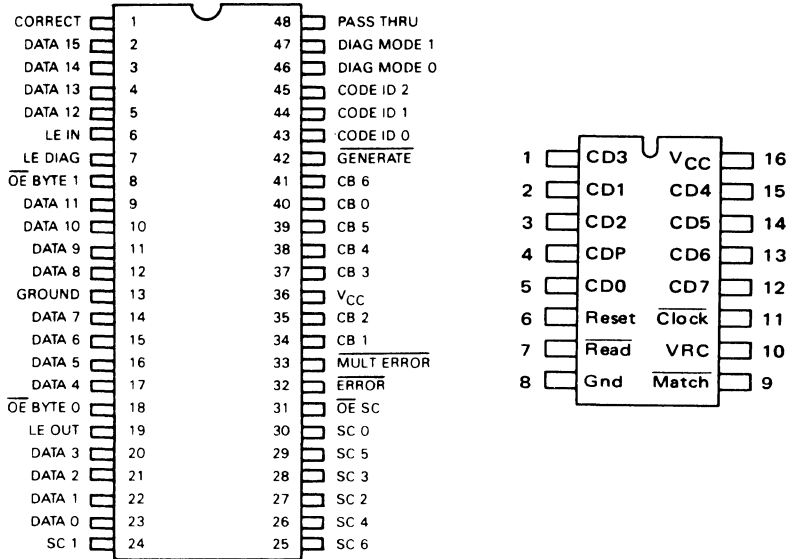
IBM CODE
P0A = B1 B2 B4 B7
P0B = B0 B3 B5 B6
P1 = B1 B3 B5 B7
P2 = B2 B3 B6 B7
P3 = B4 B5 B6 B7

29. LOGIC/BLOCK DRAWINGS

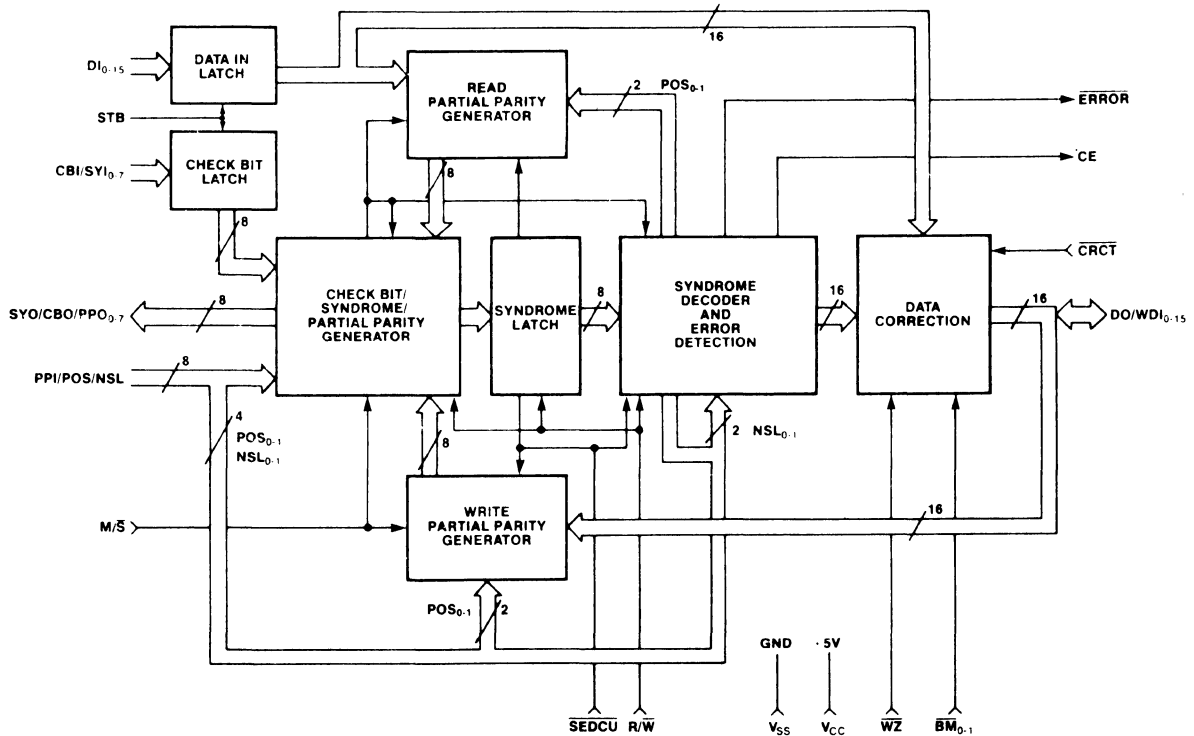


29. LOGIC/BLOCK DRAWINGS

K03-23 Error Pattern Register



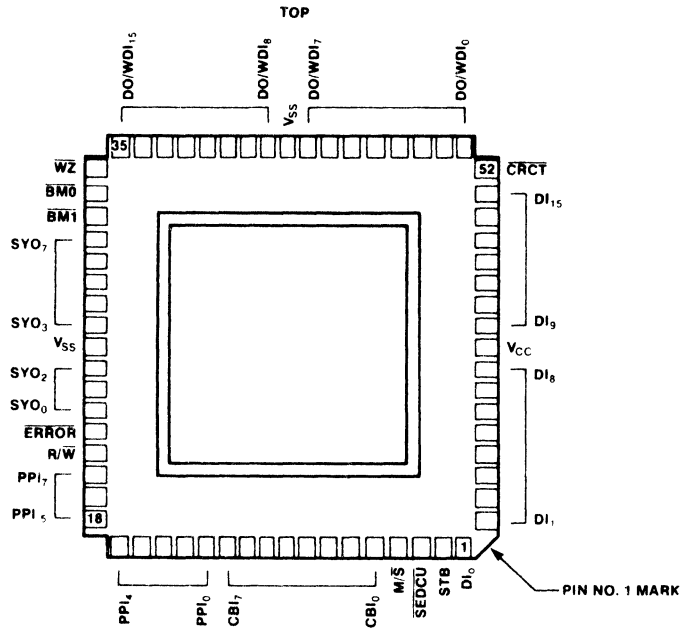
K03-24



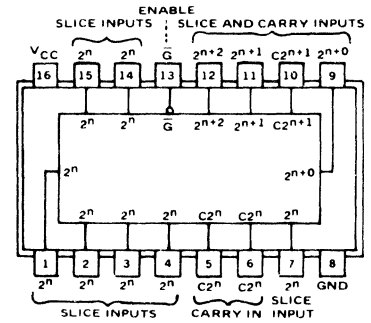
Continued on next page

29. LOGIC/BLOCK DRAWINGS

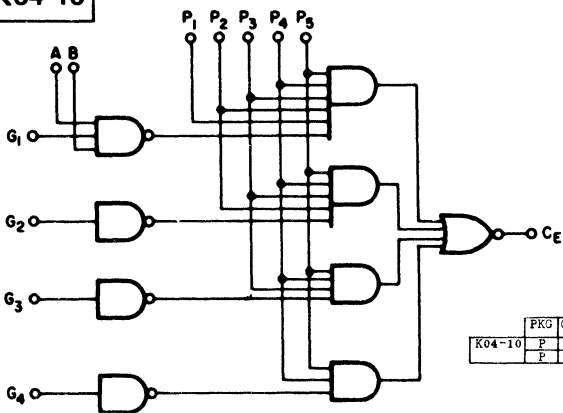
K03-24 Continued



K04-4

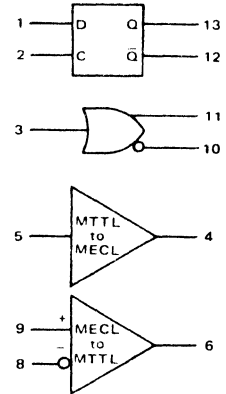


K04-10

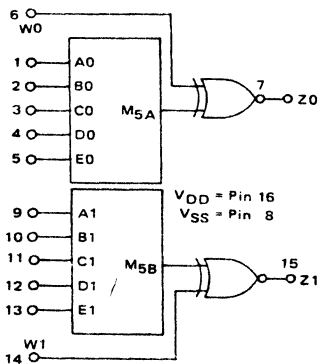


PKG	G ₂	P ₂	G ₃	P ₃	G ₄	P ₄	C _E	P ₅	B	G ₁	A	P ₁	V _{CC}	GND	
K04-10	P	1	2	3	4	5	6	8	9	10	11	12	13	14	7
	P	5	6	7	8	9	10	12	13	14	1	2	3	4	11

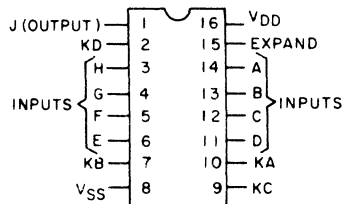
K04-11



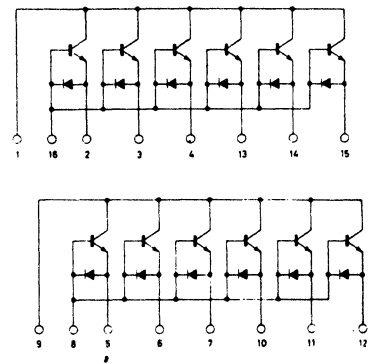
K04-12



K04-15

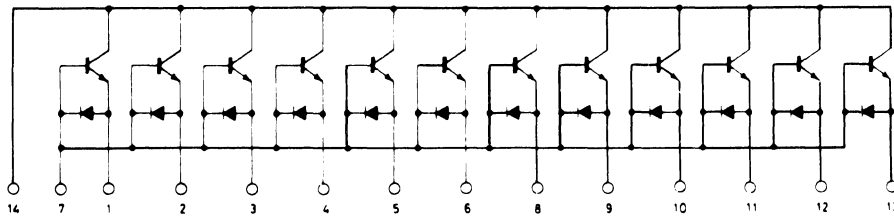


K04-16



29. LOGIC/BLOCK DRAWINGS

K04-17

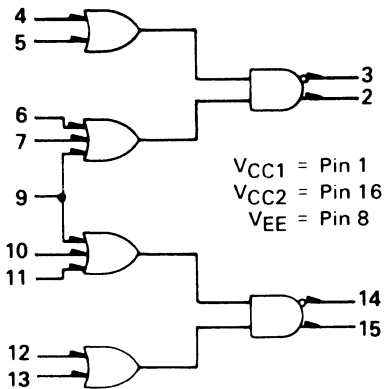


V_{DD} =Pin 16 V_{SS} @Pin 8

K04-20



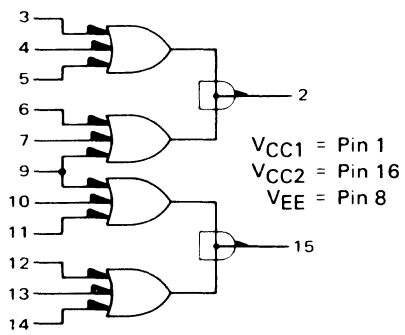
K04-25



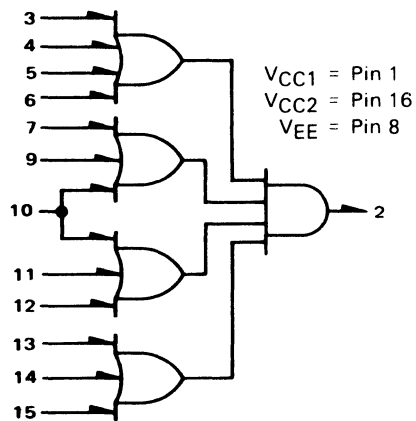
Dual 2-Wide 2-3 Input
OR-AND/OR-AND-Inverter Gate

K04-26

Dual 2-Wide 3-Input OR-AND Gate

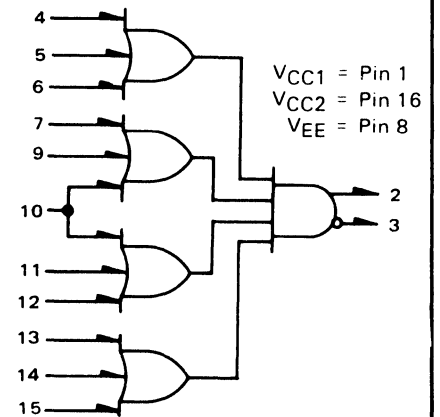


K04-27



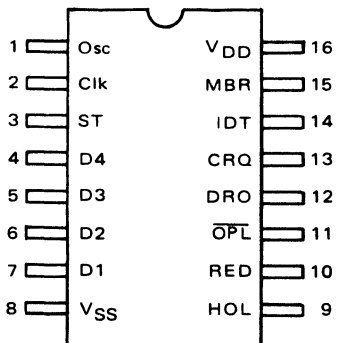
4-Wide 4-3-3-3 Input OR-AND Gate

K04-28



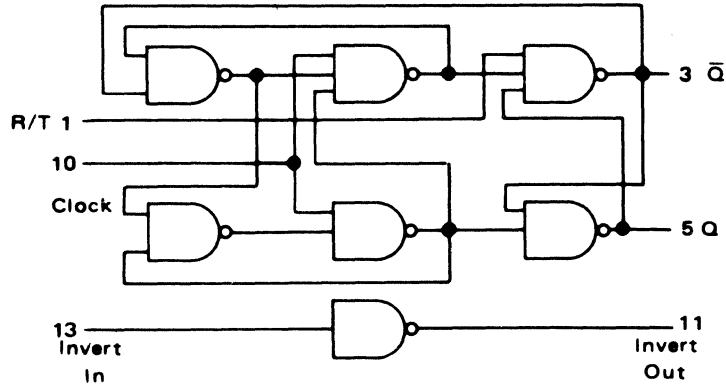
4-Wide OR-AND/OR-AND Gate

K05-1

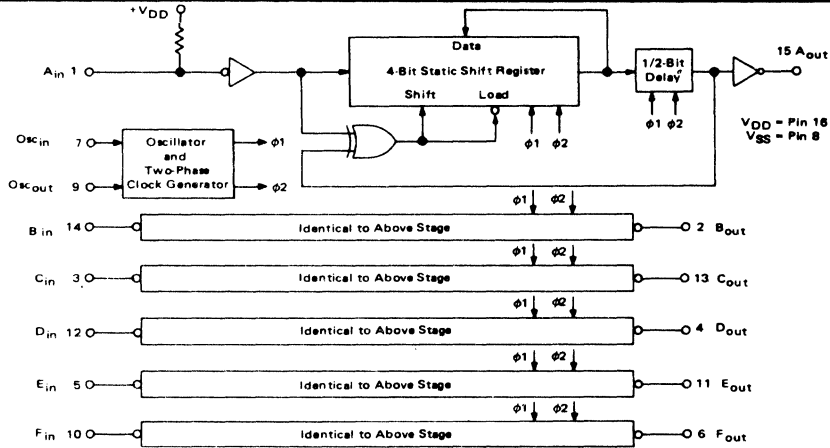


29. LOGIC/BLOCK DRAWINGS

K05-10

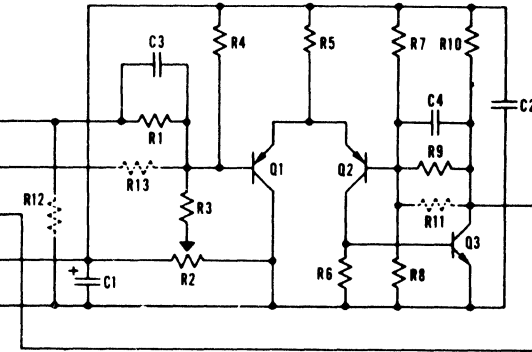


K05-14

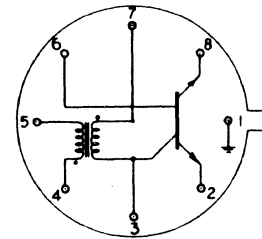


K05-15

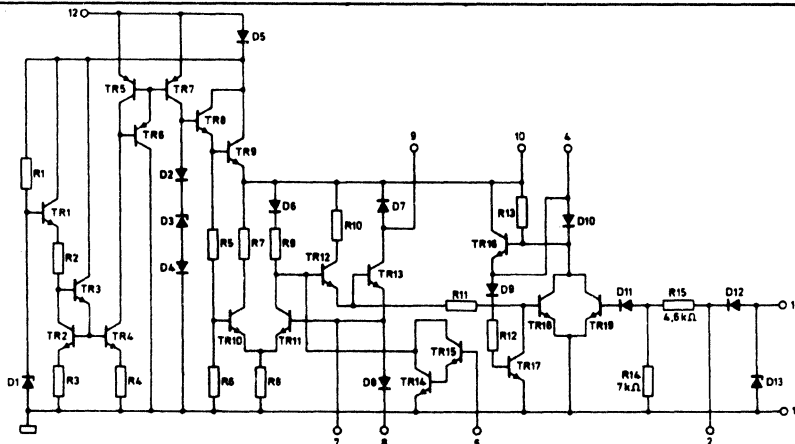
FUNCTION	CONNECTOR PINS	
	CKT 1	CKT 2
INPUT	41	13
EXTERNAL REFERENCE	29	23
OUTPUT	33	21
V _{CC}	51	
GRD	1 9 52 45	



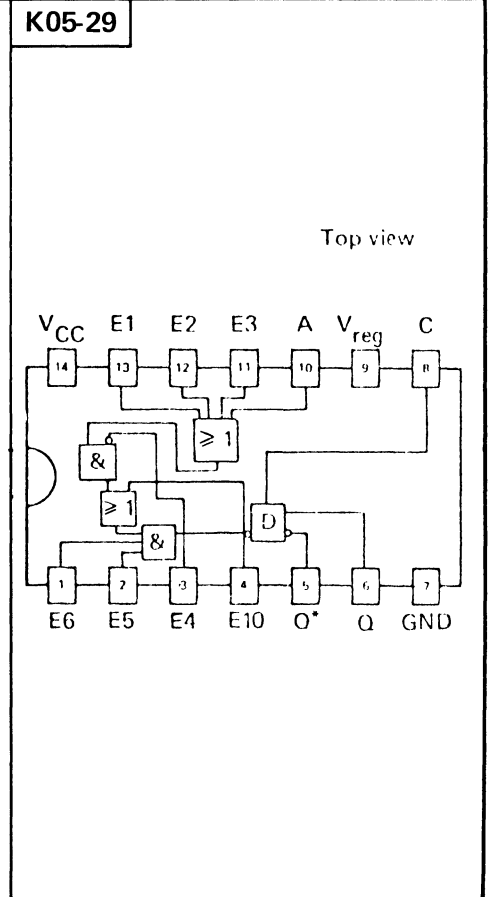
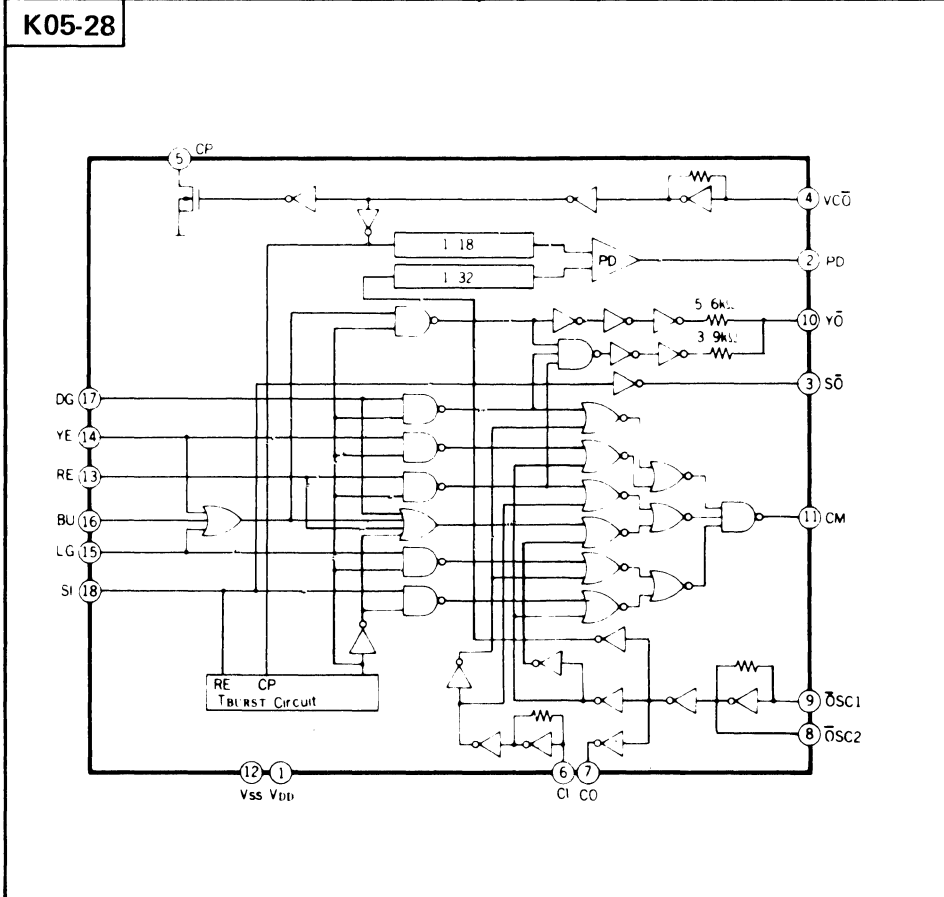
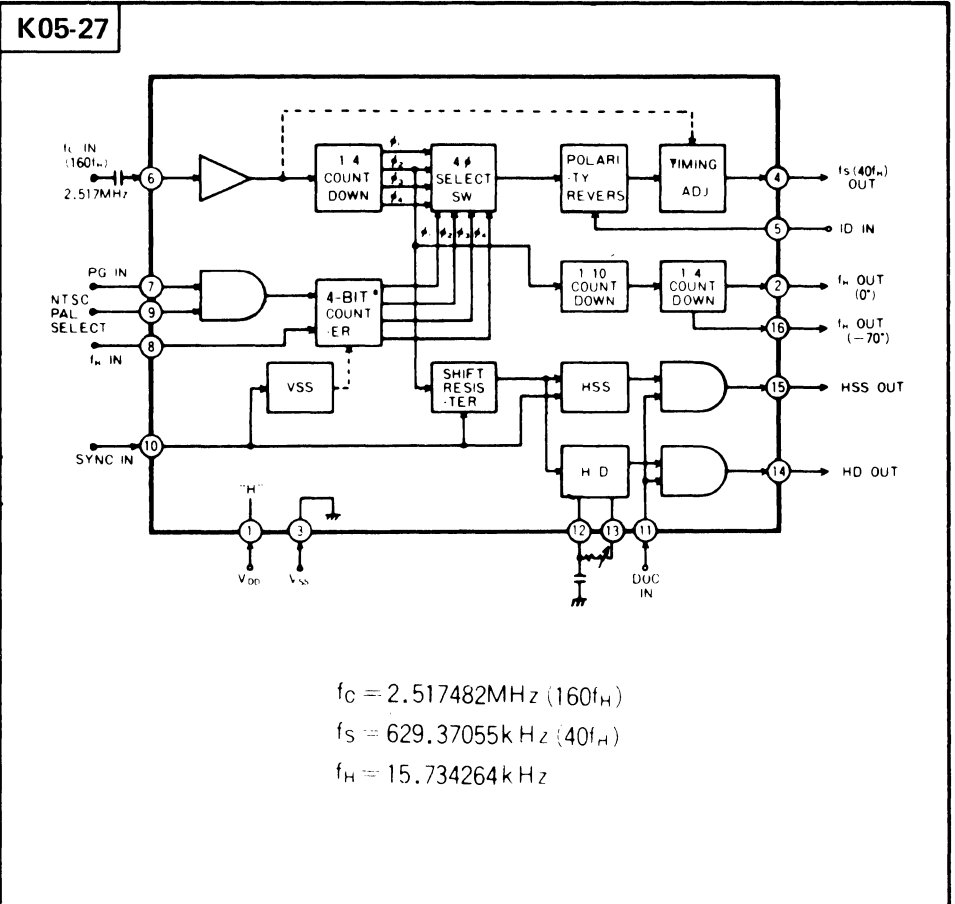
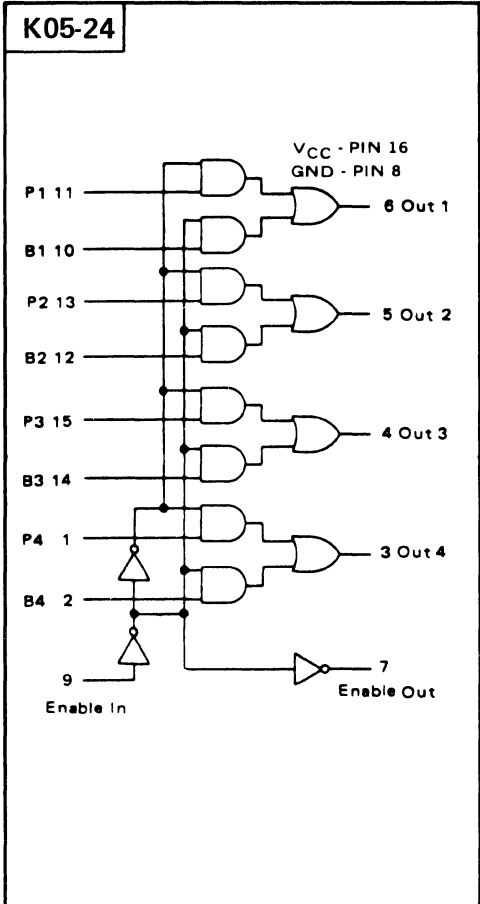
K05-19



K05-21

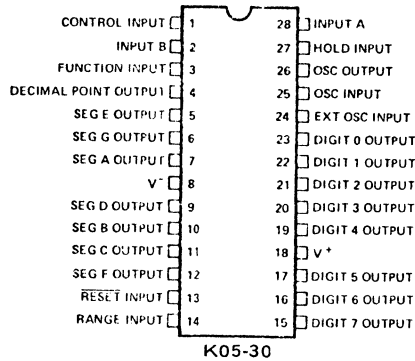


29. LOGIC/BLOCK DRAWINGS

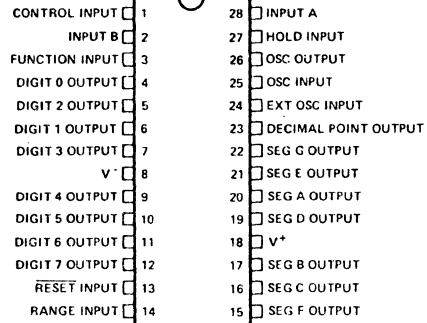


29. LOGIC/BLOCK DRAWINGS

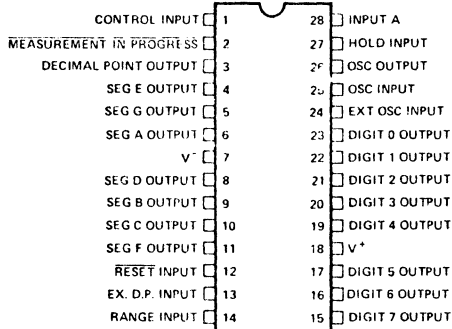
K05-30



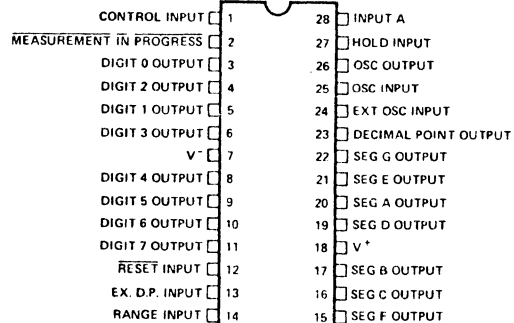
K05-30



K05-30a

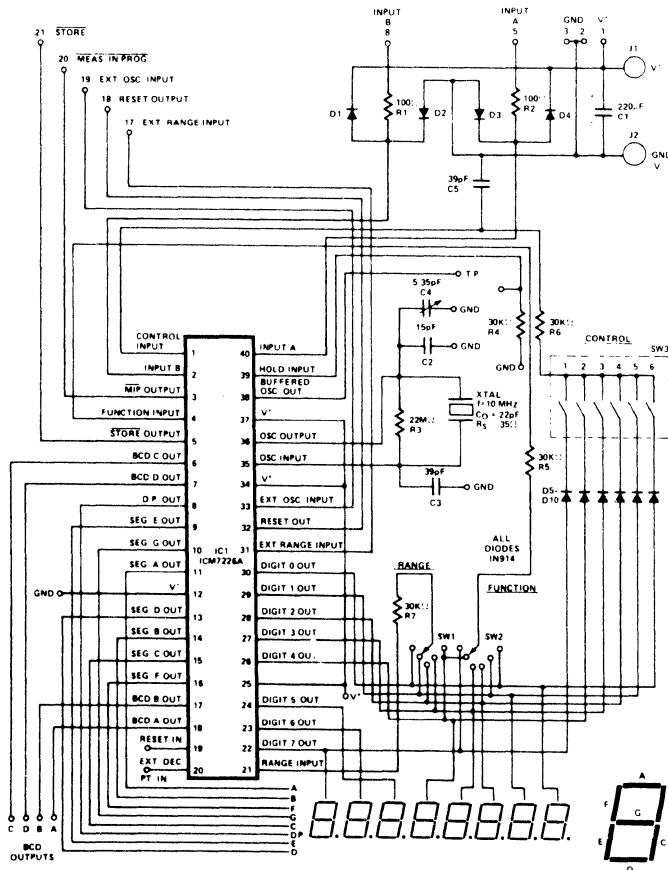


K05-30b

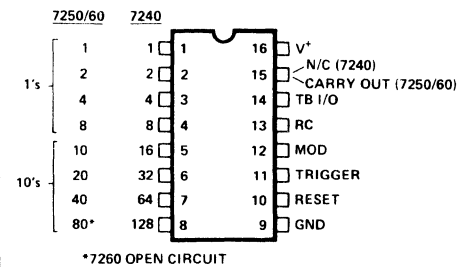


K05-30c

K05-33

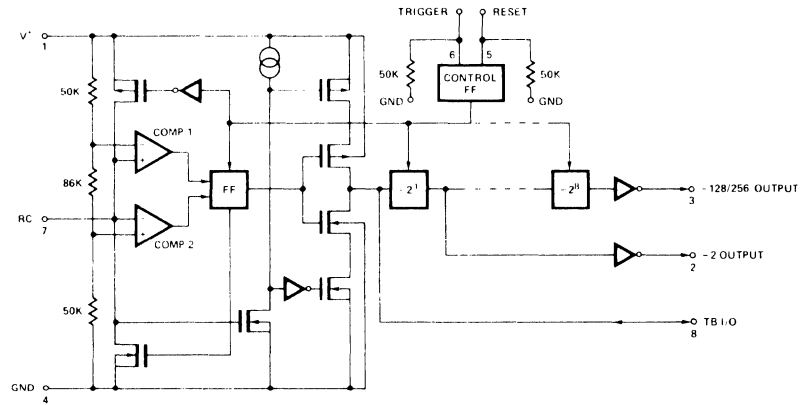


K05-34

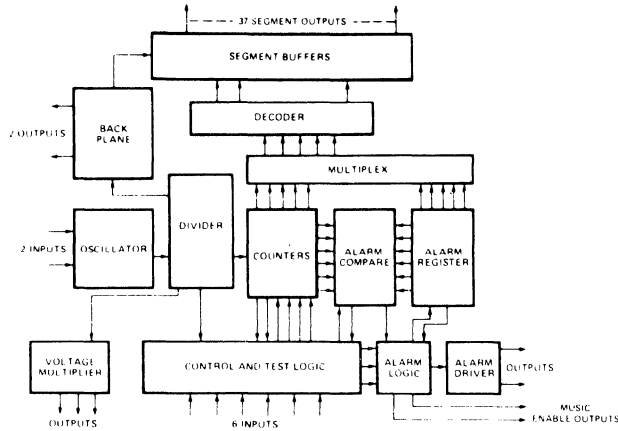


29. LOGIC/BLOCK DRAWINGS

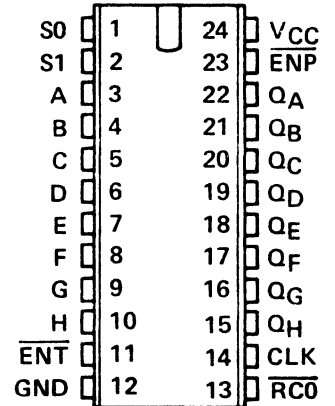
K05-35



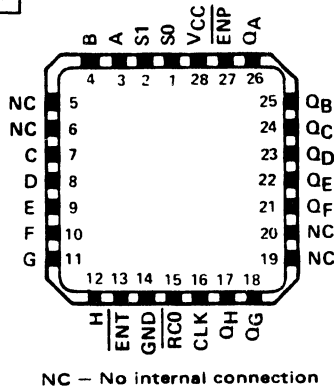
K05-36



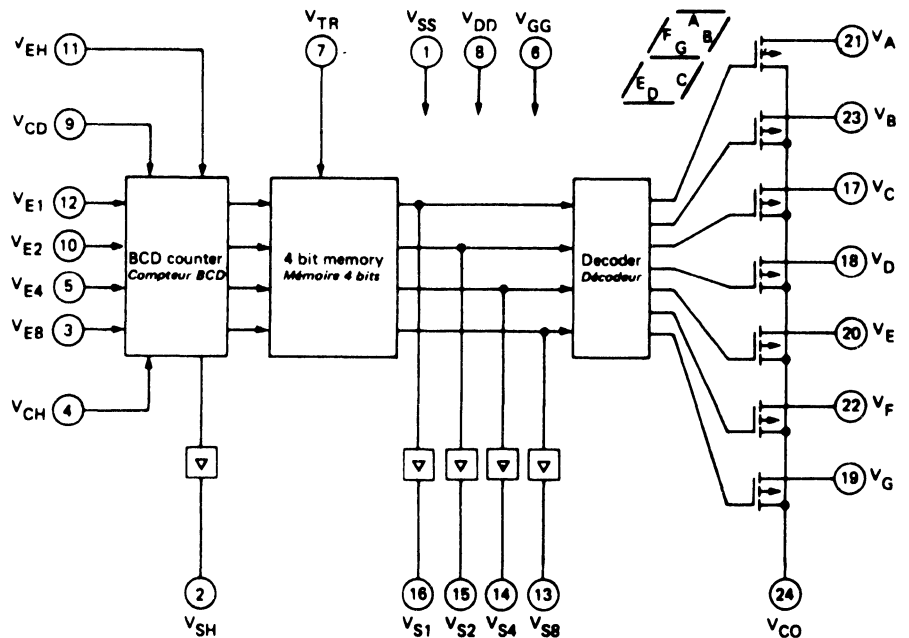
K05-37



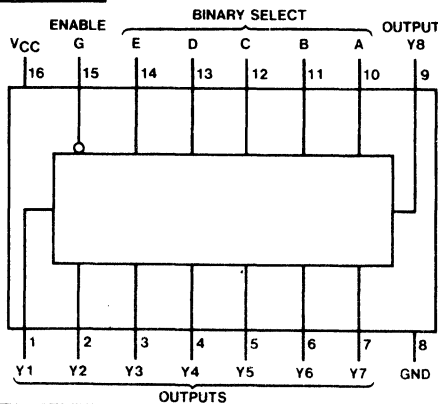
K05-38



K06-1

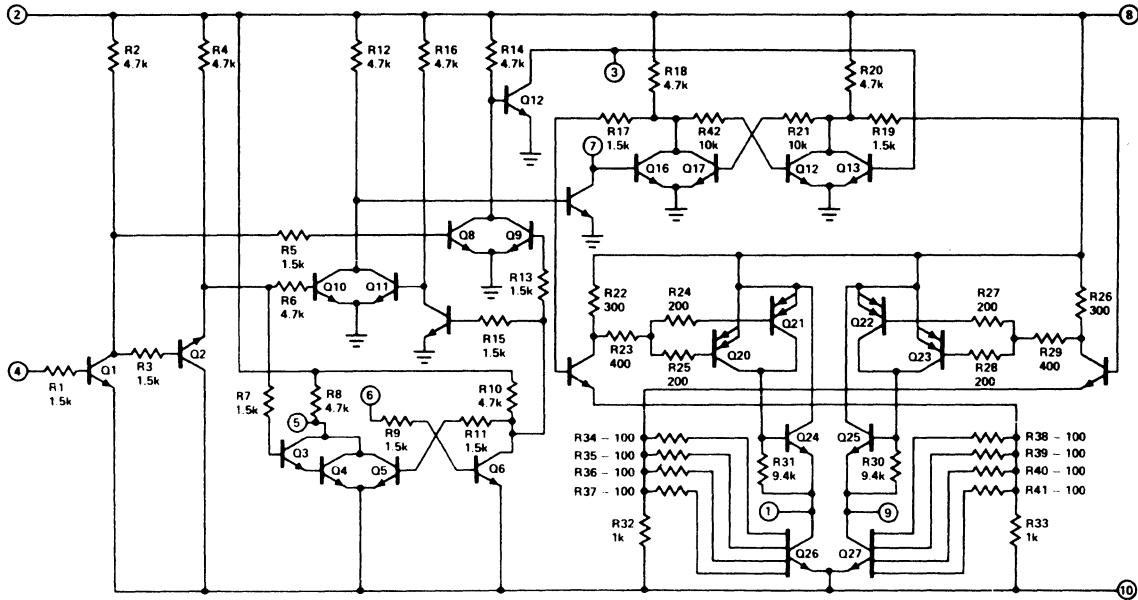


K05-39

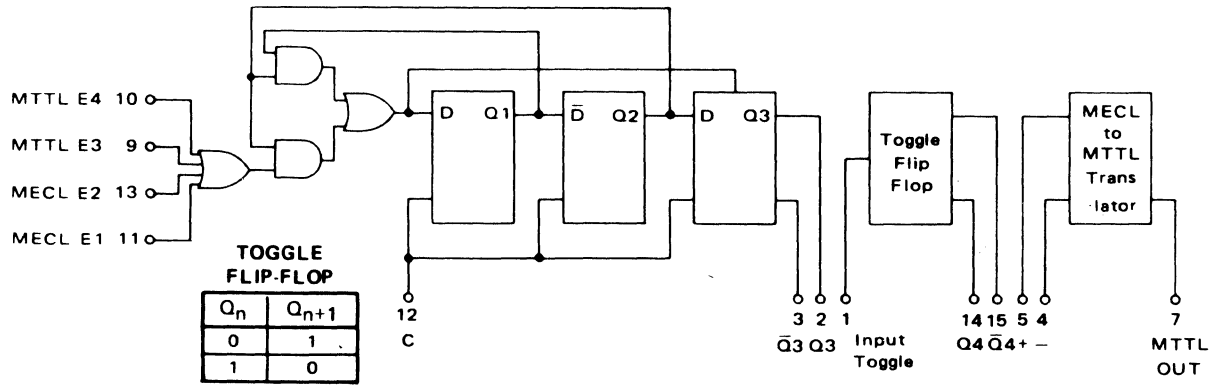


29. LOGIC/BLOCK DRAWINGS

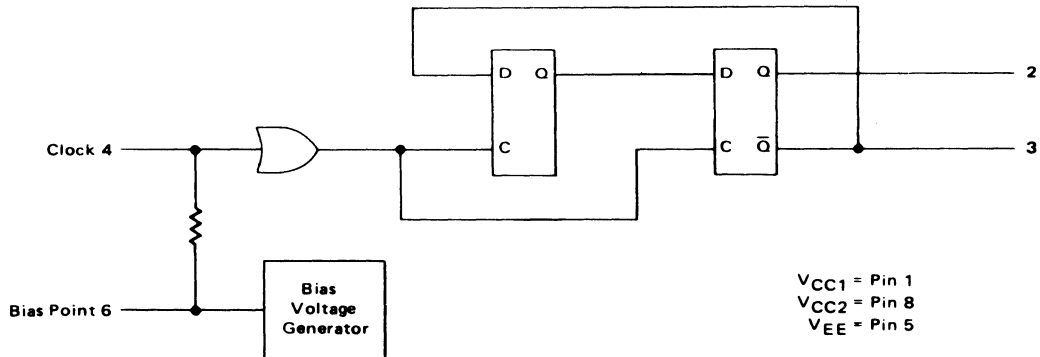
K06-3



K06-4

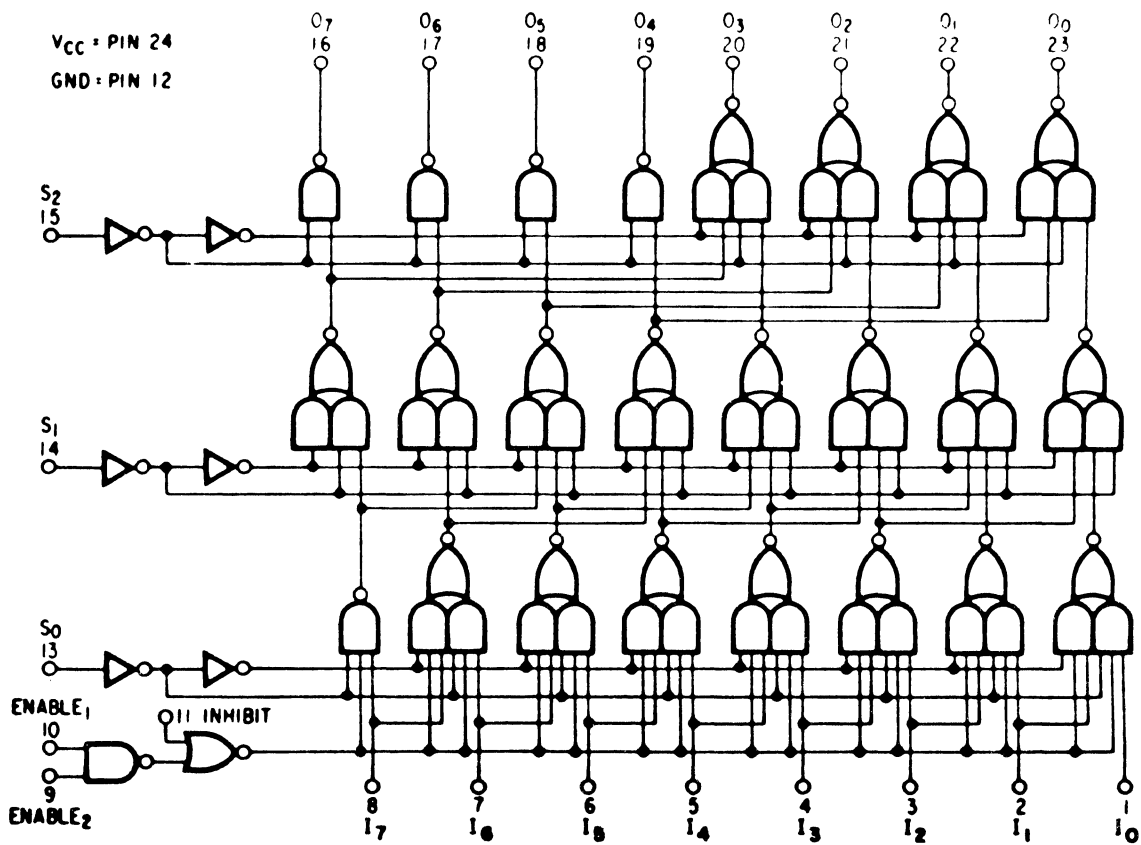


K06-5

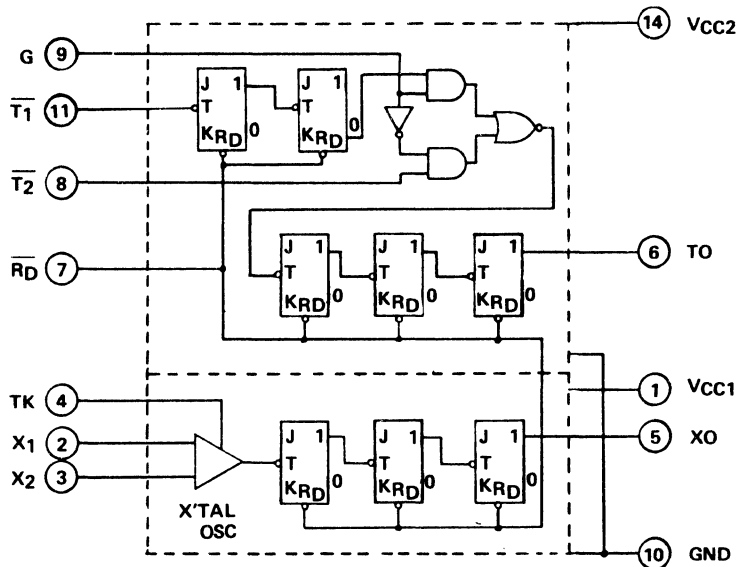


29. LOGIC/BLOCK DRAWINGS

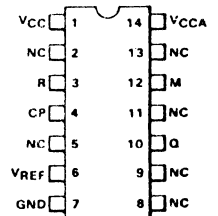
K06-7



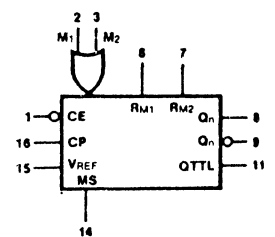
K06-12



K06-13



K06-14

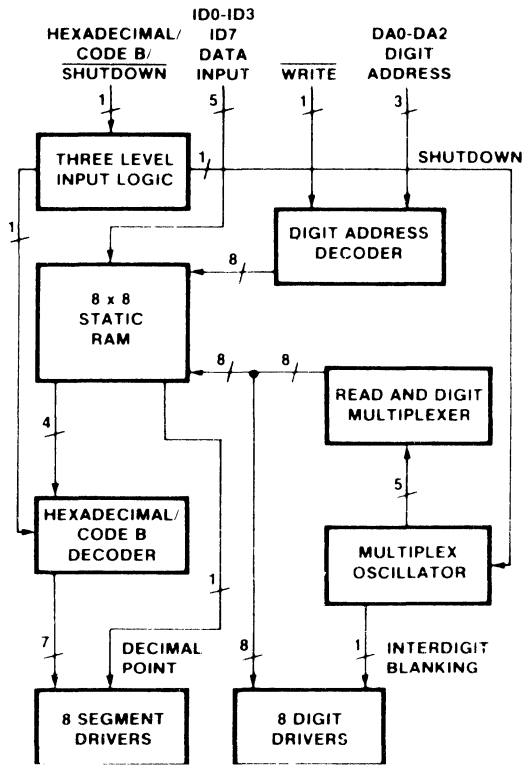


K06-14 Q_n = Pin 4
K06-14a Q_n = Pin 3

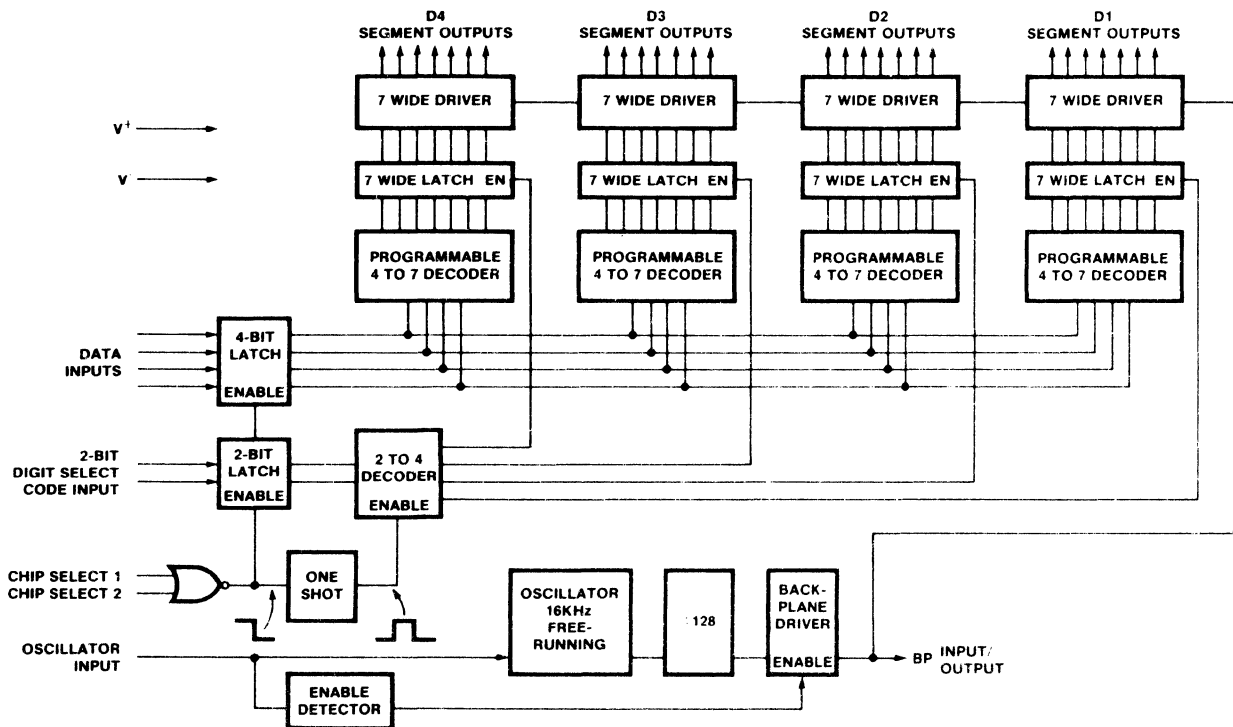
V_{CC} = Pin 4
V_{CC}A = Pin 5
V_{EE} = Pin 12
V_{EE} (TTL) = Pin 13

29. LOGIC/BLOCK DRAWINGS

K06-18

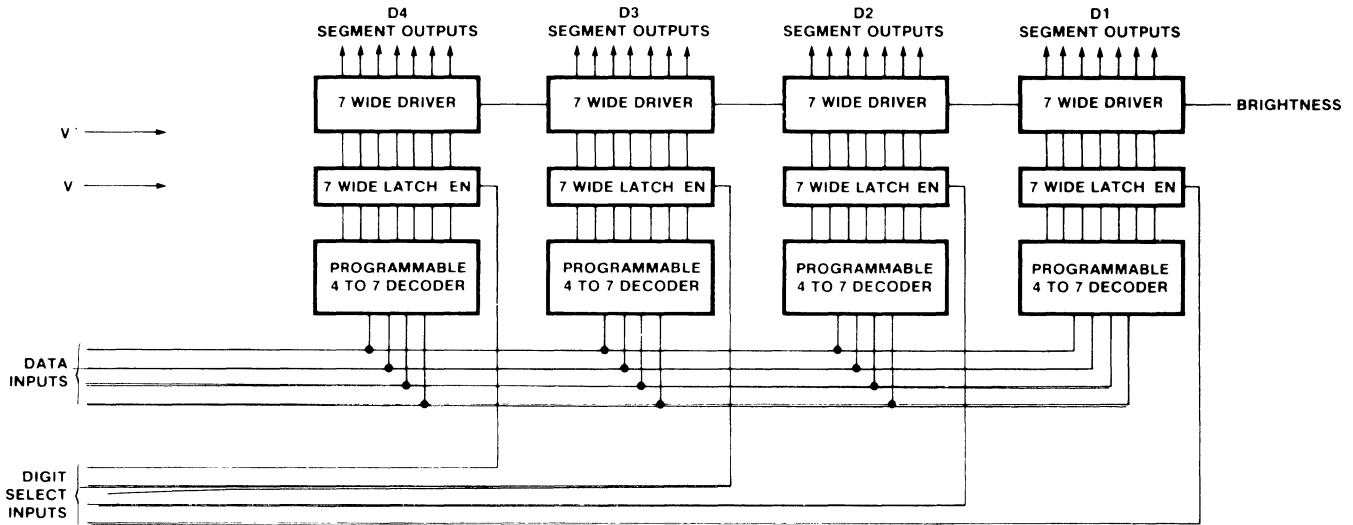


K06-19

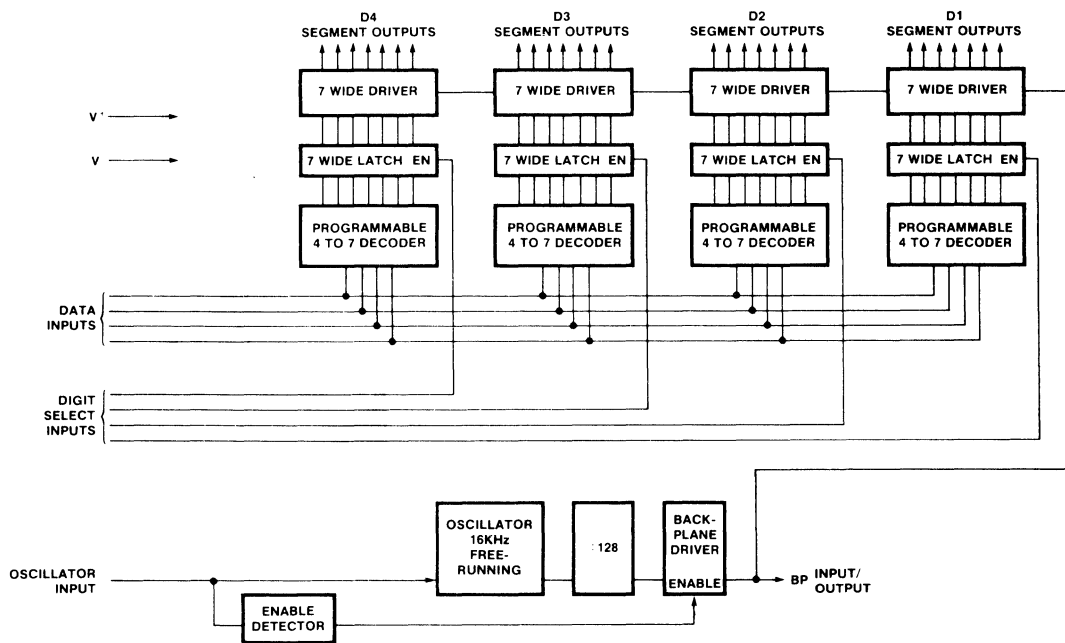


29. LOGIC/BLOCK DRAWINGS

K06-20

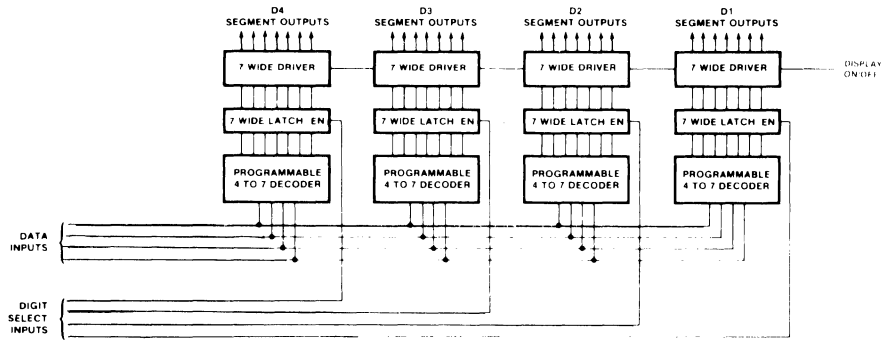


K06-21

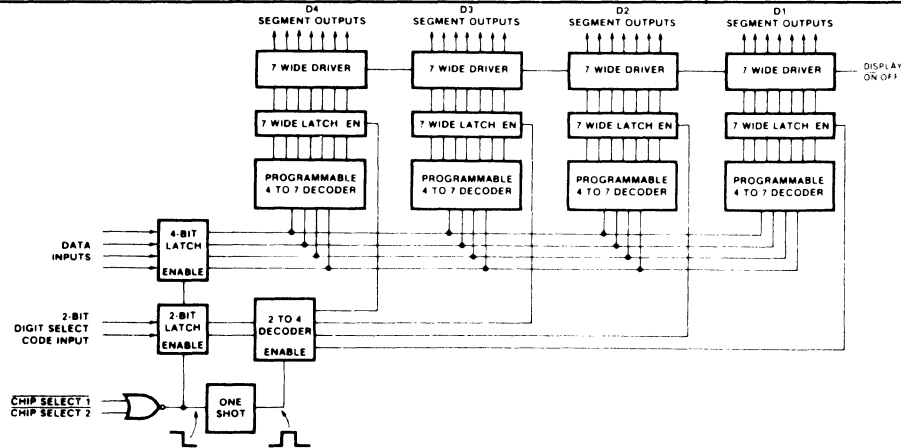


29. LOGIC/BLOCK DRAWINGS

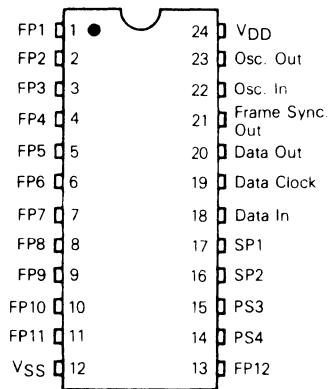
K06-23



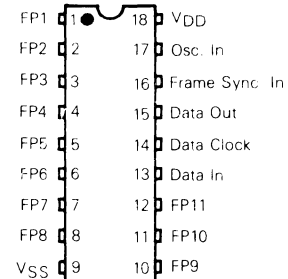
K06-24



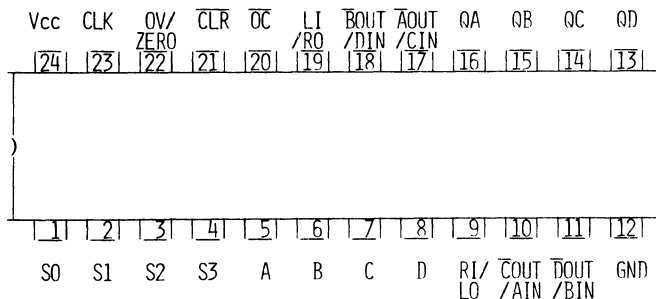
K06-151



K06-152

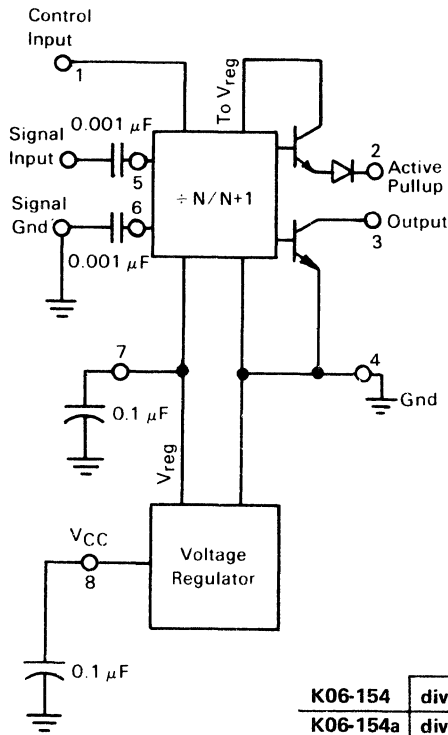


K06-153



29. LOGIC/BLOCK DRAWINGS

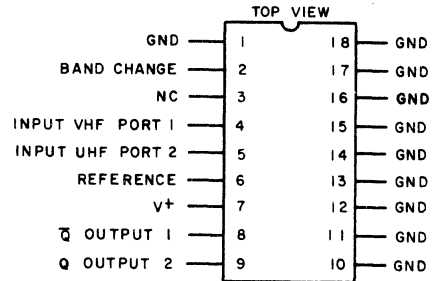
K06-154



K06-154	divide by 32 and 33
K06-154a	divide by 40 and 41
K06-154b	divide by 64 and 65

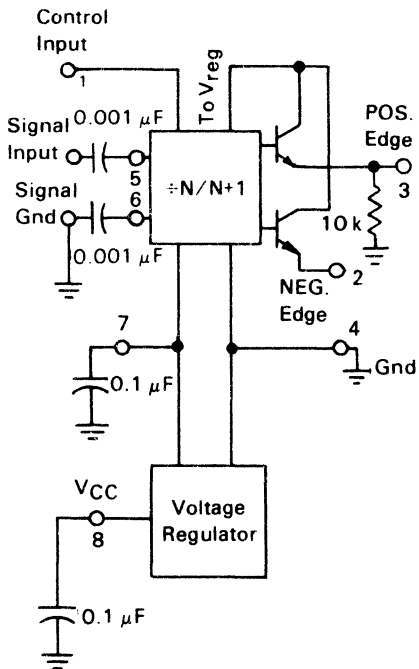
K06-159

VHF/UHF Prescaler



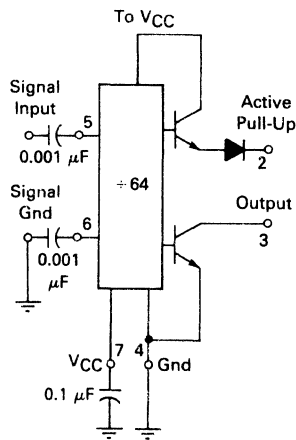
K06-160

Divide x 128/129 Two-Modules Prescaler



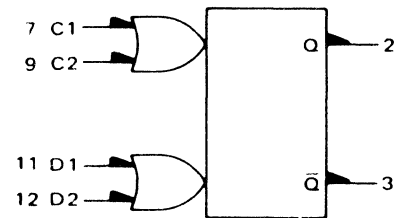
K06-161

Divide x 64 Prescaler



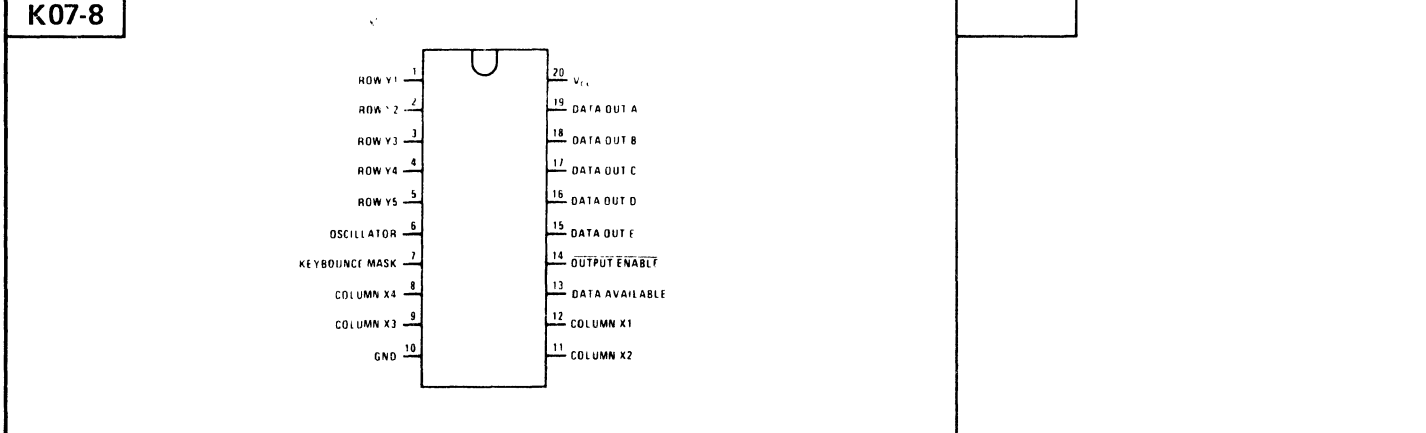
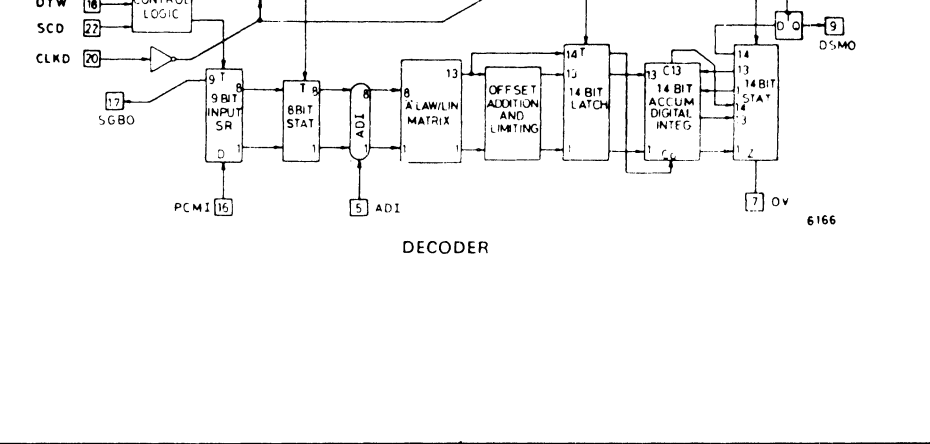
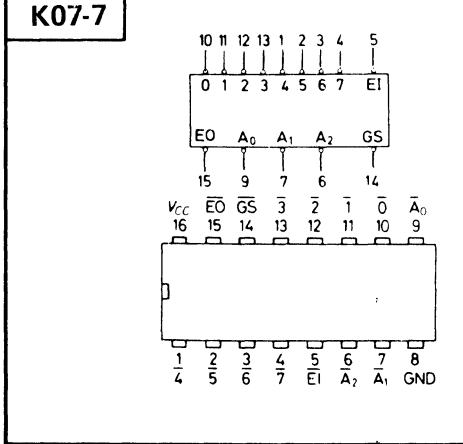
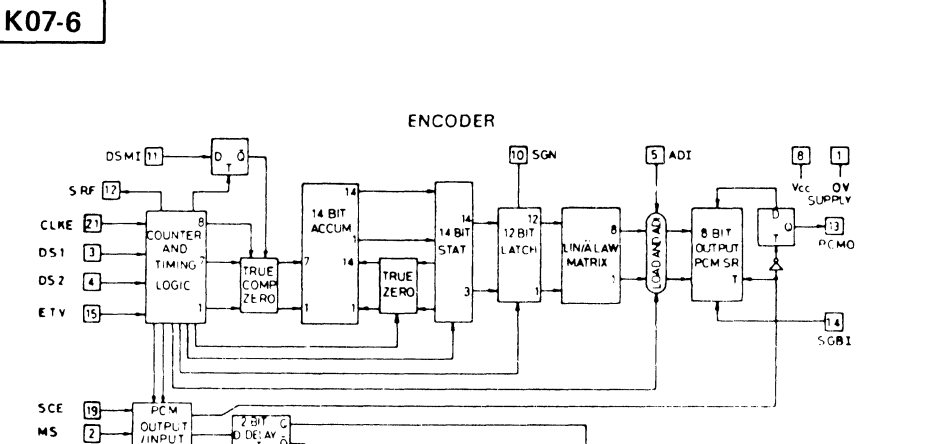
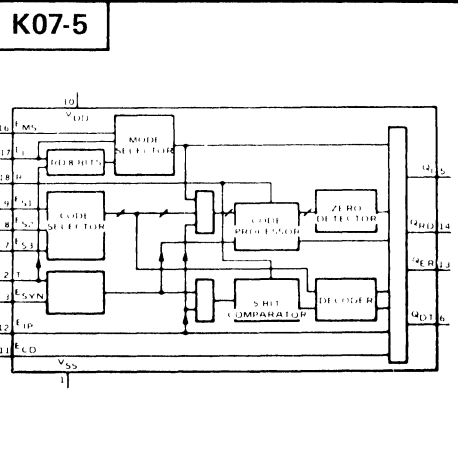
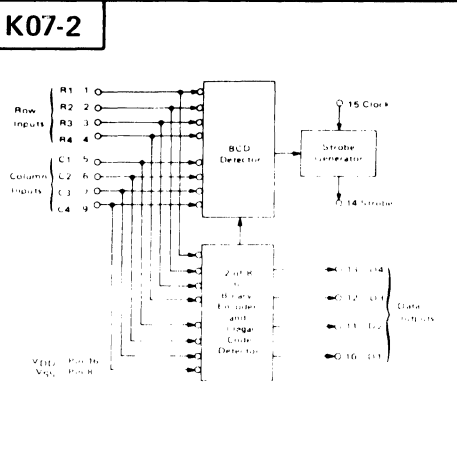
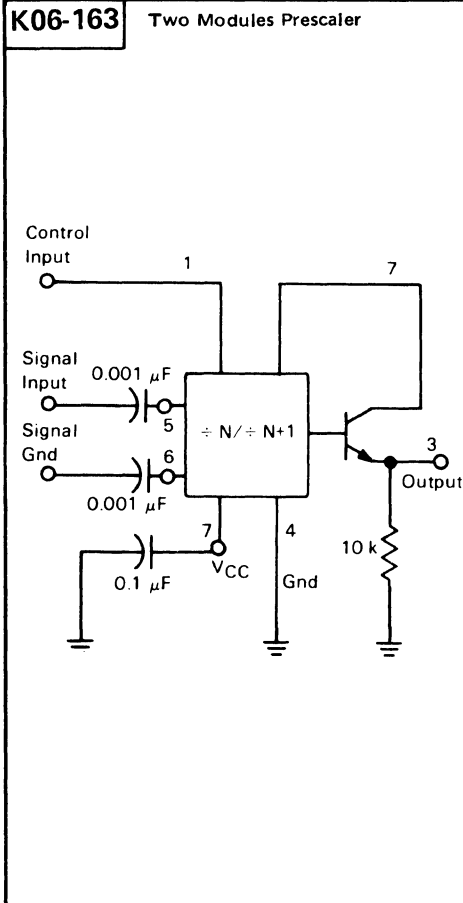
K06-162

Master/Slave Flip-Flop, High Speed Prescaler



VCC1 = Pin 1
VCC2 = Pin 16
VEE = Pin 8

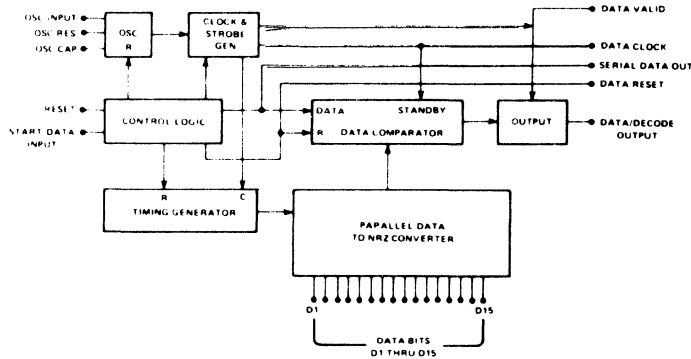
29. LOGIC/BLOCK DRAWINGS



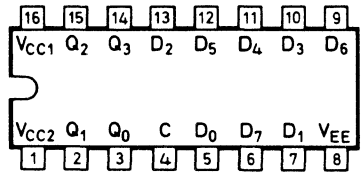
29. LOGIC/BLOCK DRAWINGS

K07-9

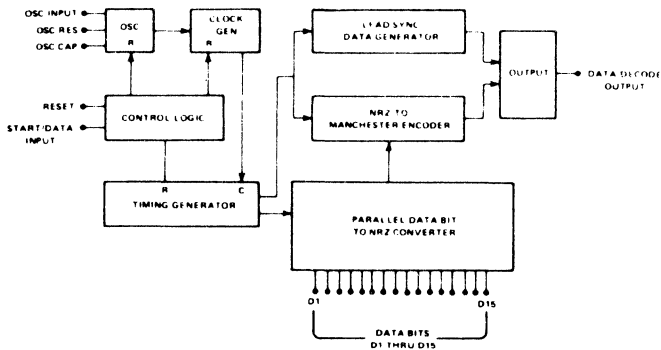
RECEIVER



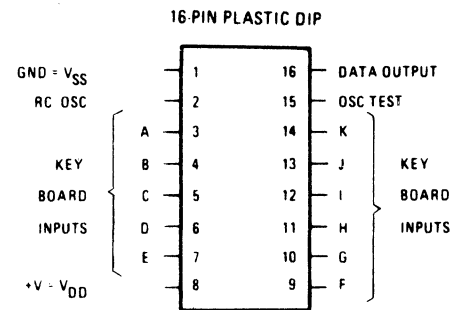
K07-11



TRANSMITTER

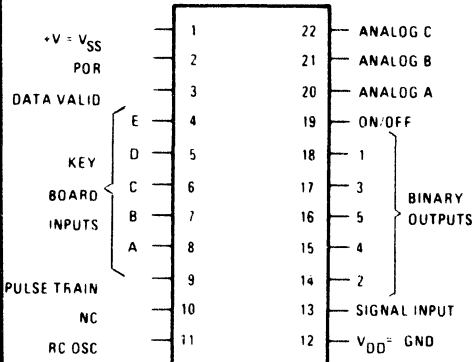


K07-13

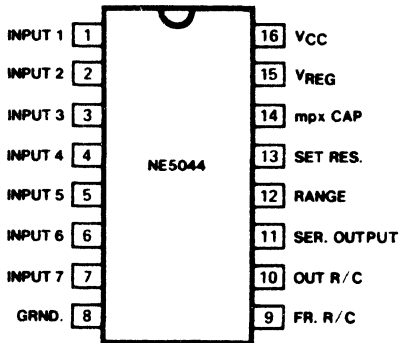


K07-14

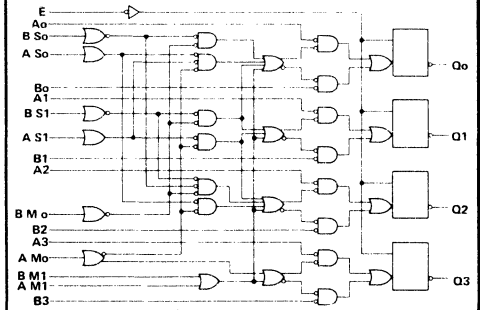
22-PIN PLASTIC DIP



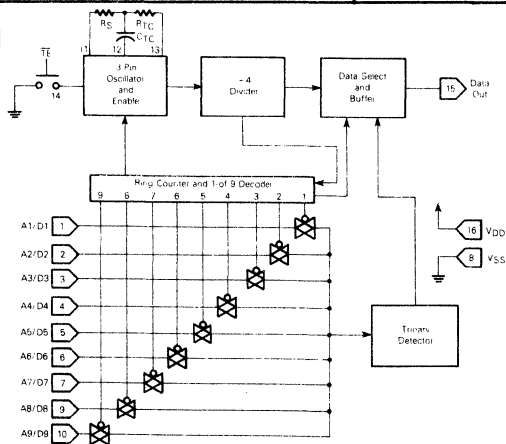
K07-17



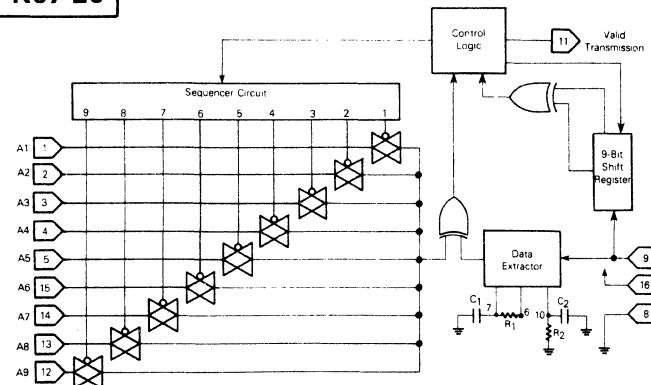
K07-18



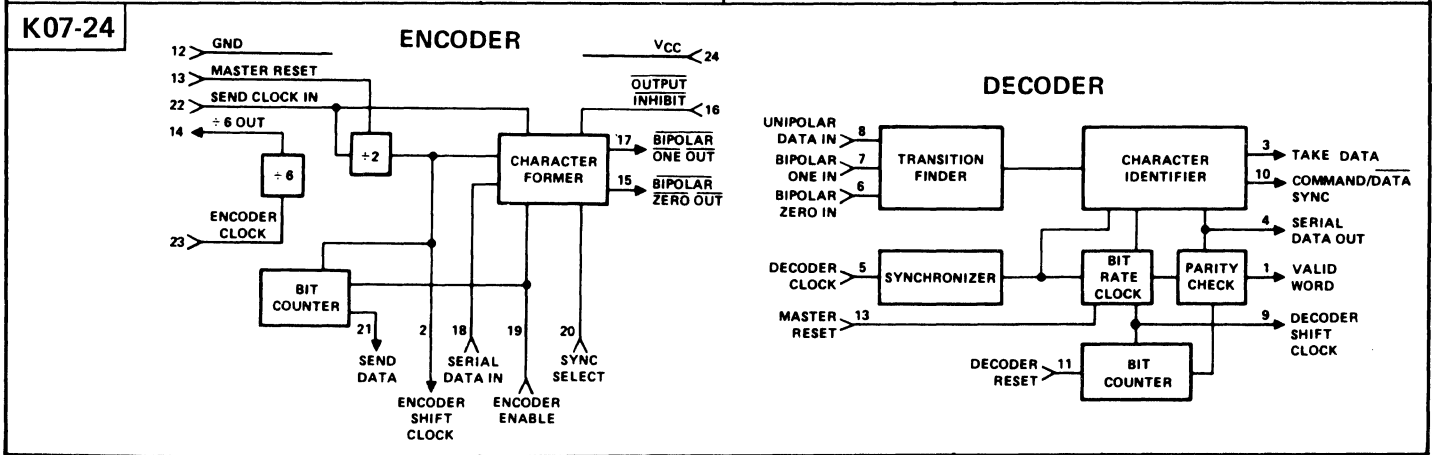
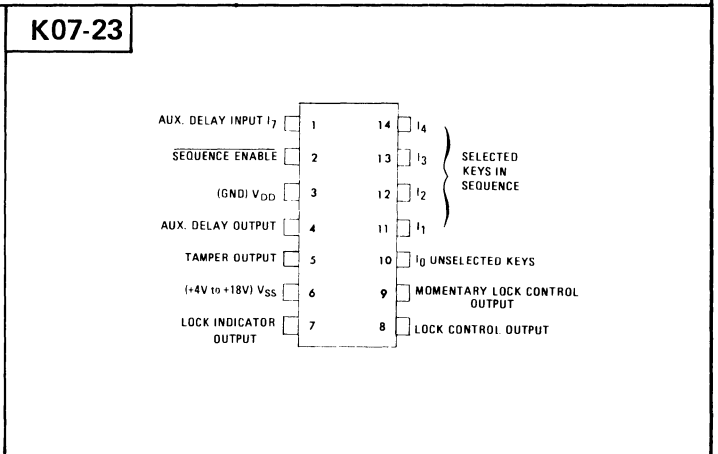
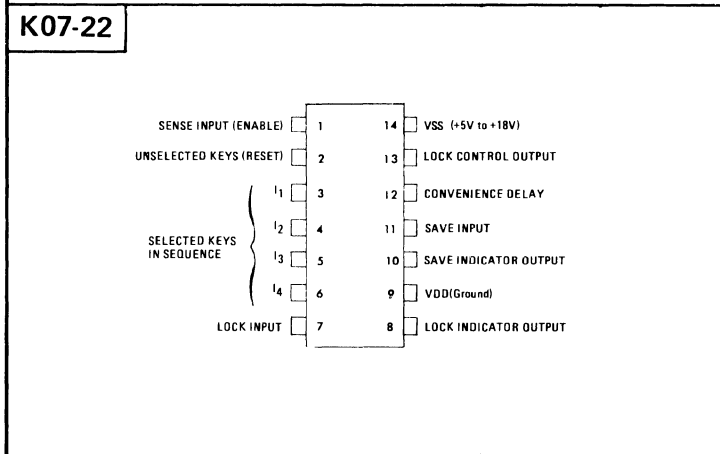
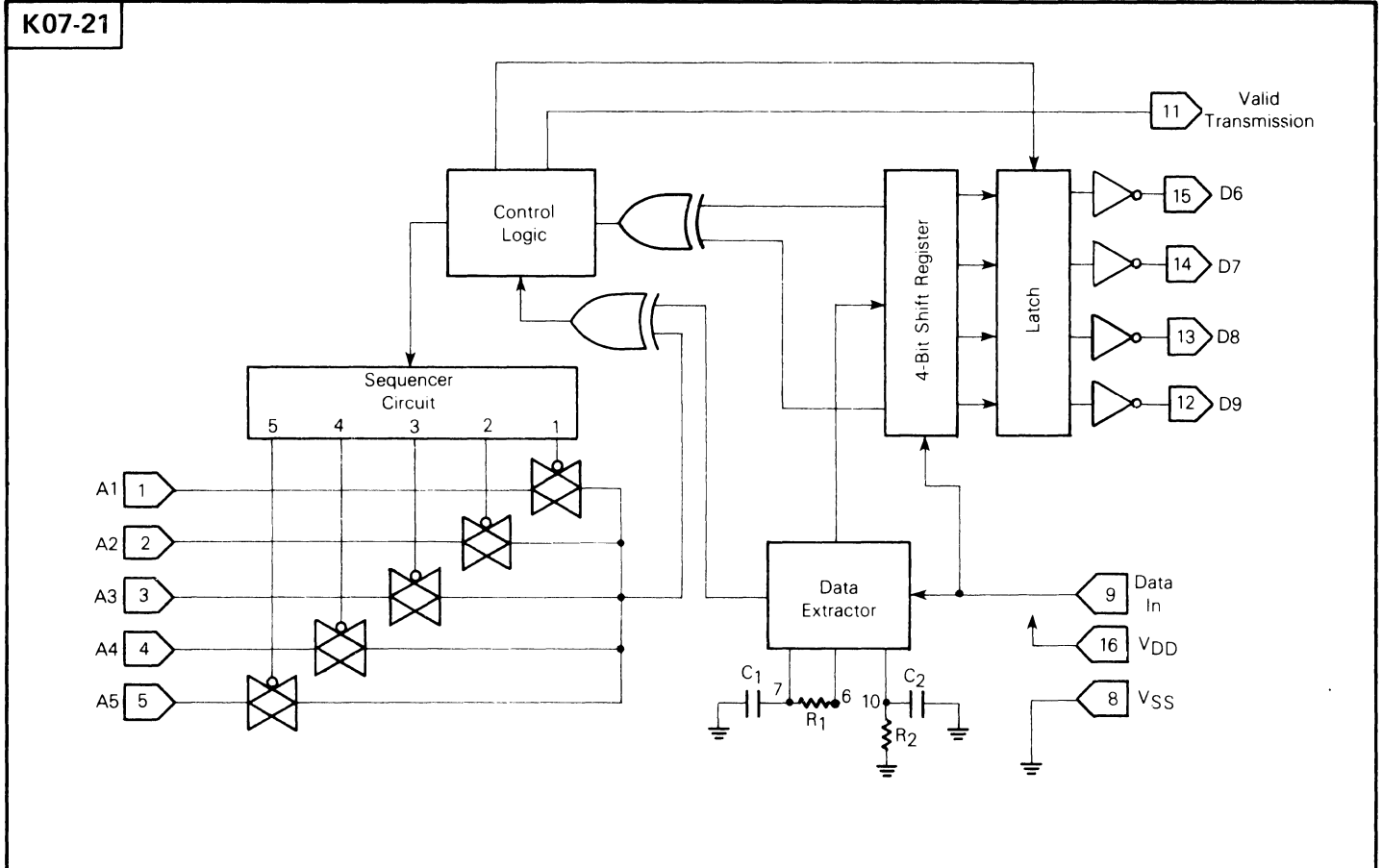
K07-19



K07-20

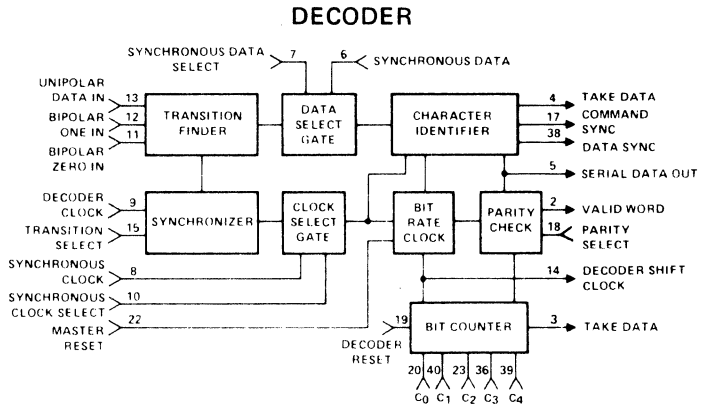
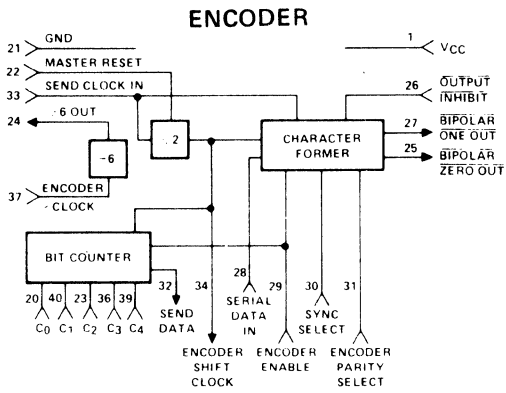


29. LOGIC/BLOCK DRAWINGS

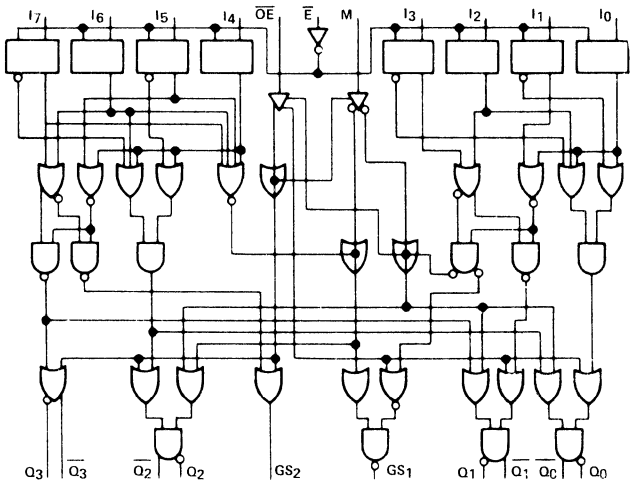


29. LOGIC/BLOCK DRAWINGS

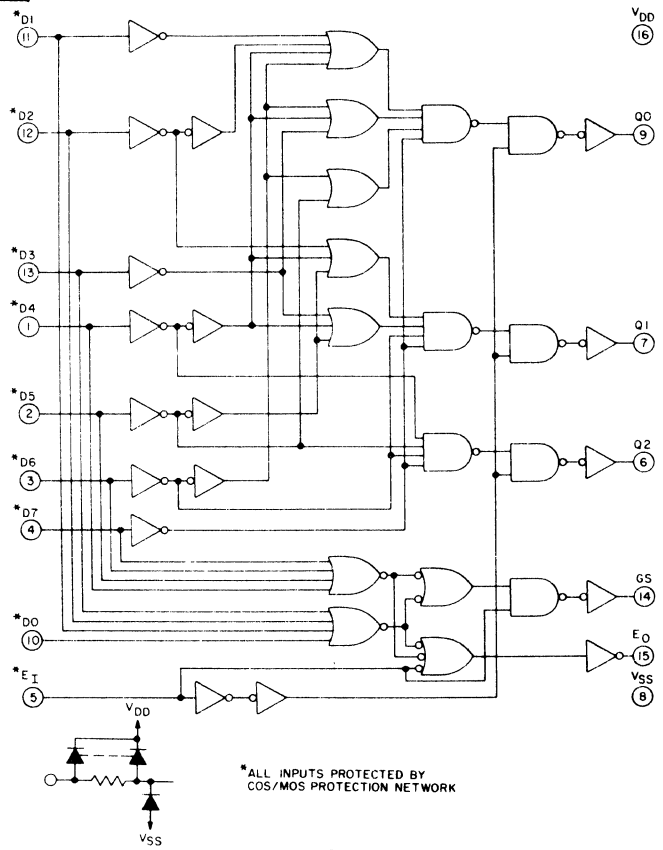
K07-25



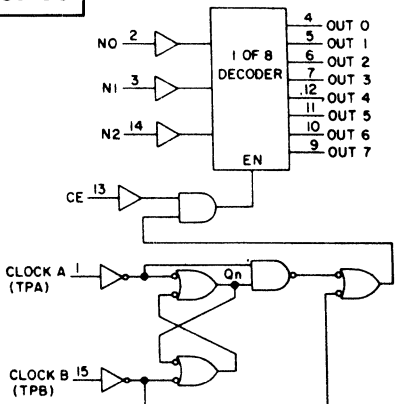
K07-26



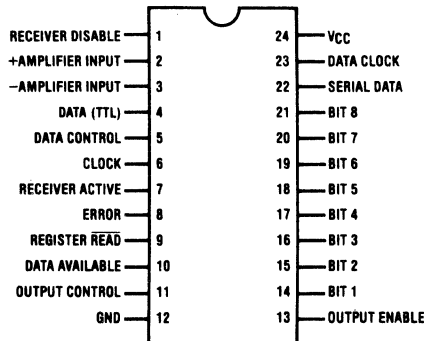
K07-29



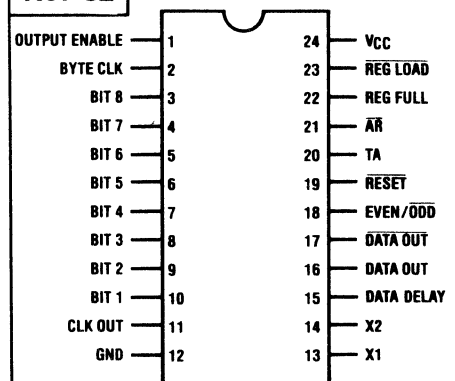
K07-30



K07-31

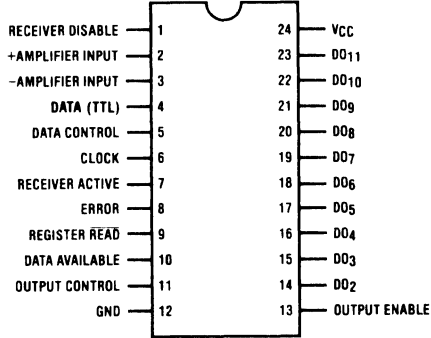


K07-32

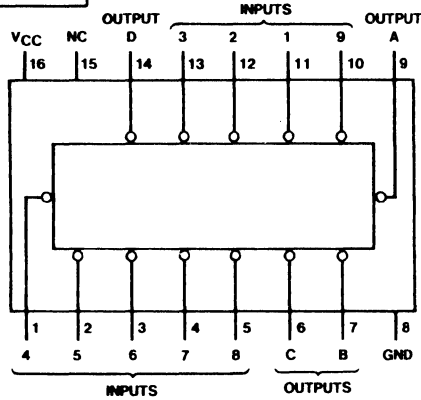


29. LOGIC/BLOCK DRAWINGS

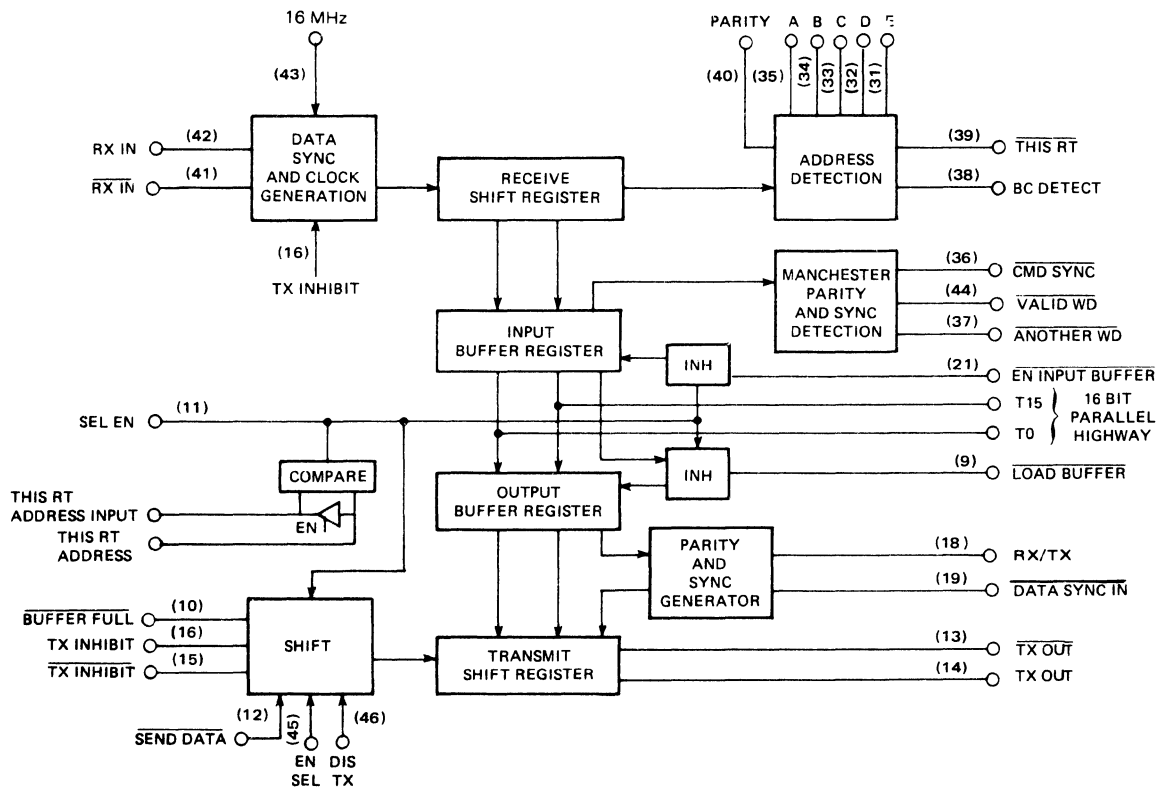
K07-33



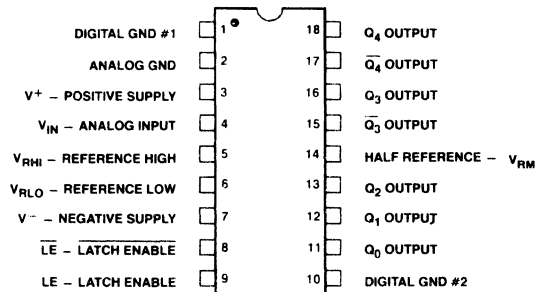
K07-34



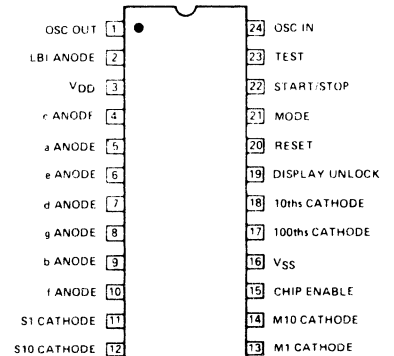
K07-35



K08-1

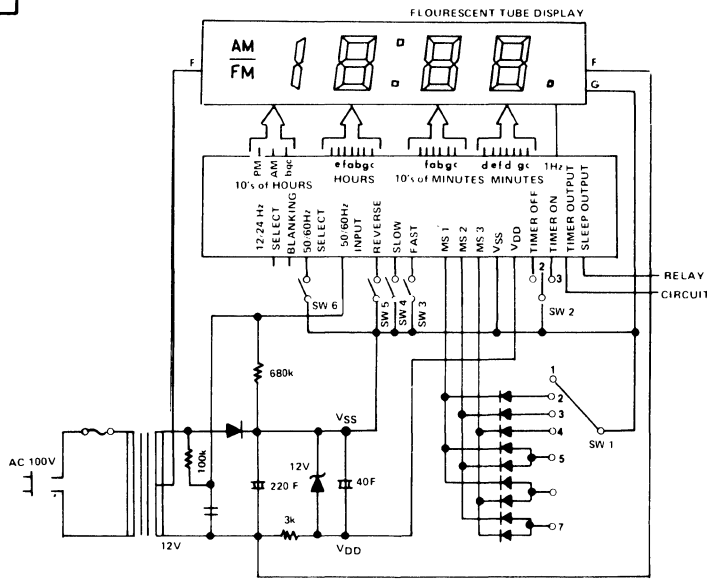


K09-18

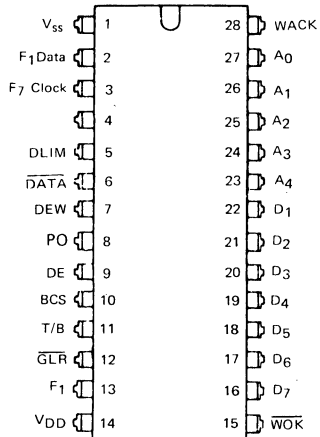


29. LOGIC/BLOCK DRAWINGS

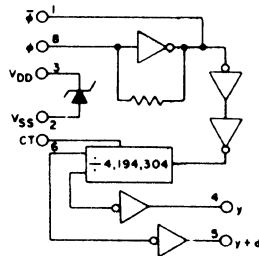
K09-48



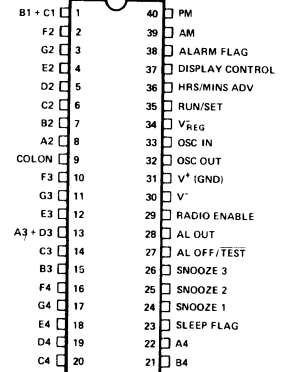
K09-49



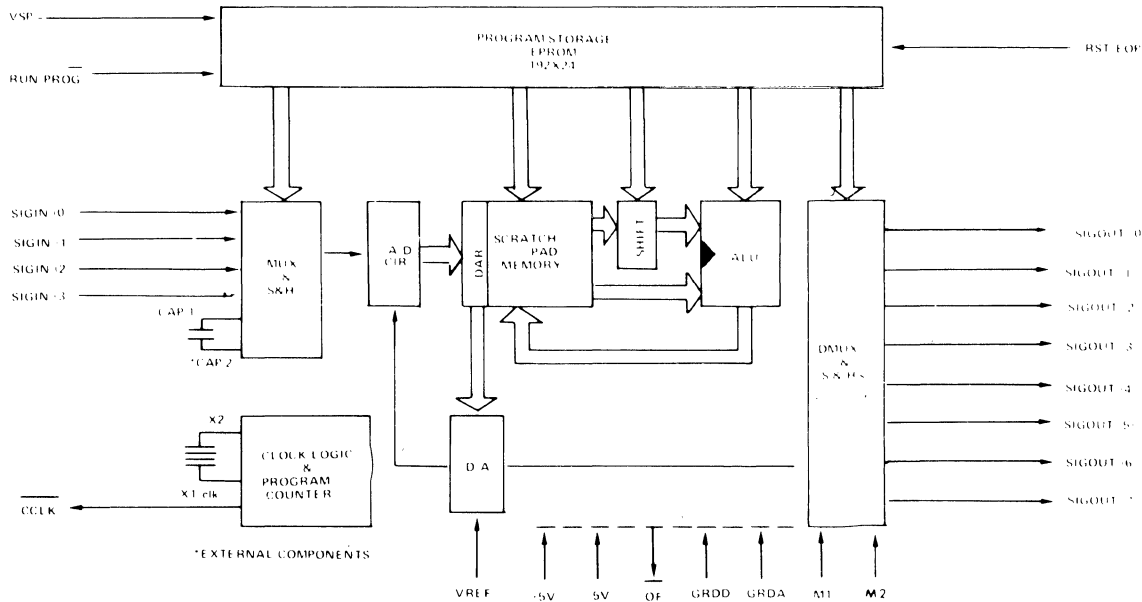
K09-51



K09-5E

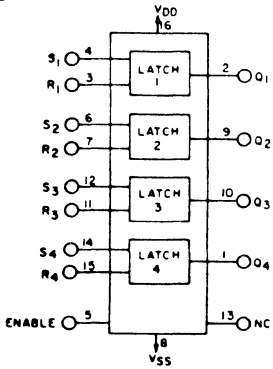


K11-1

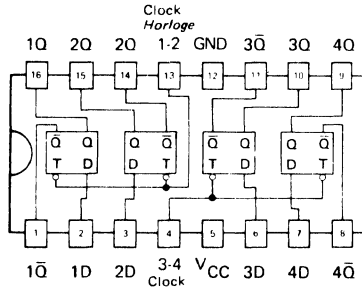


29. LOGIC/BLOCK DRAWINGS

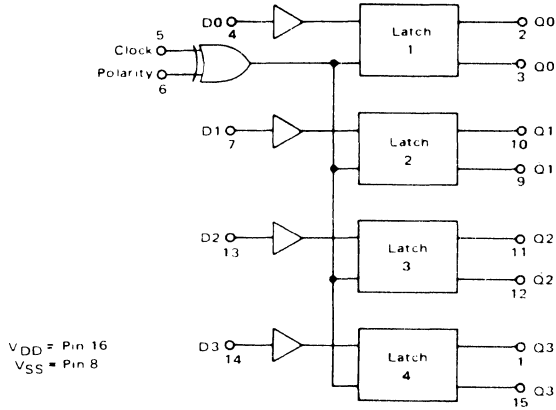
L00-1



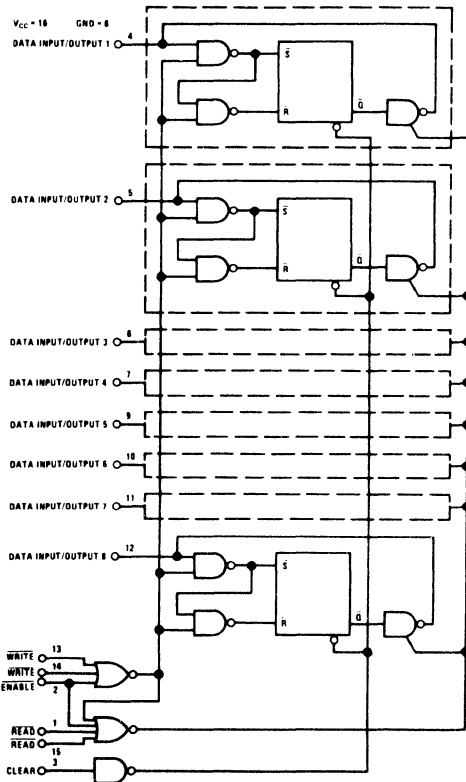
L00-2



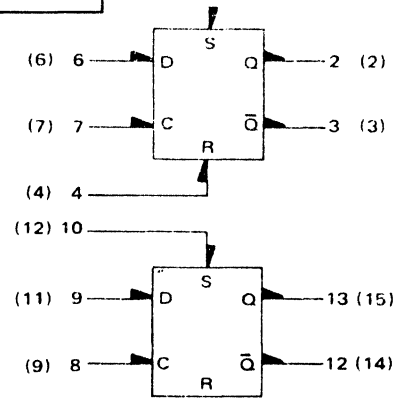
L00-3



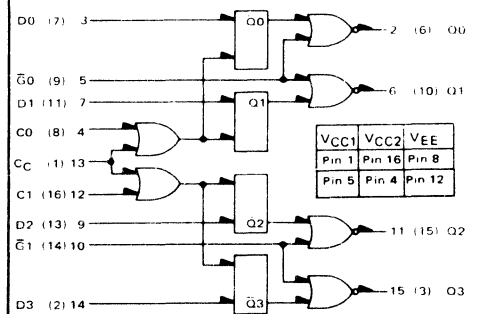
L00-8



L00-11

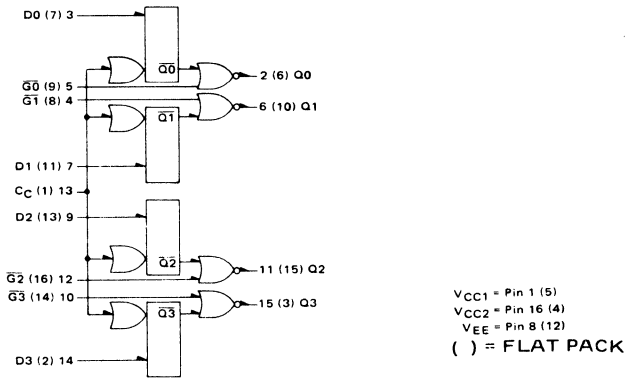


L00-12

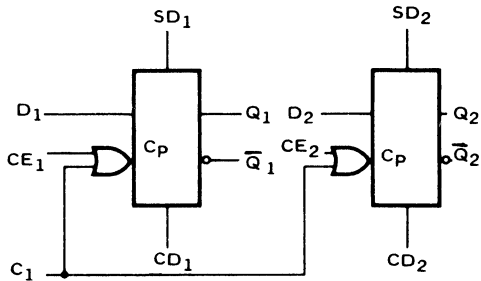


29. LOGIC/BLOCK DRAWINGS

L00-13

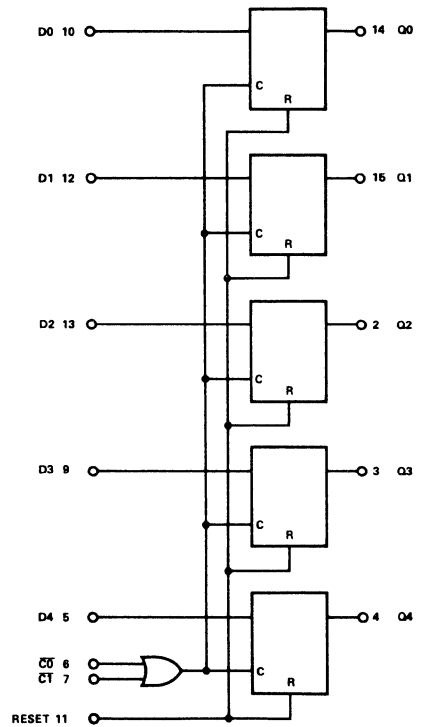


L00-14

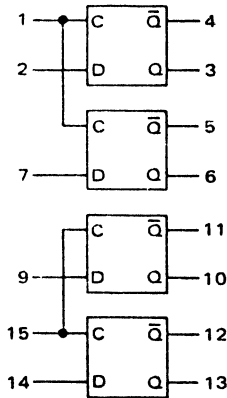


SD1	D1	CE1	CD1	Q1	Q1	C	SD2	D2	CE2	CD2	Q2	Q2	VCC	COM	VEE	
L00-14	16	14	15	1	3	2	13	9	11	10	8	6	7	4	5	12

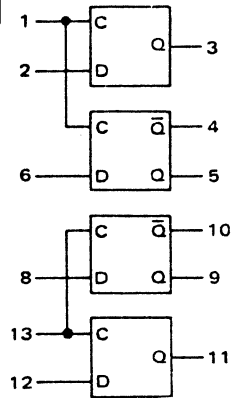
L00-15



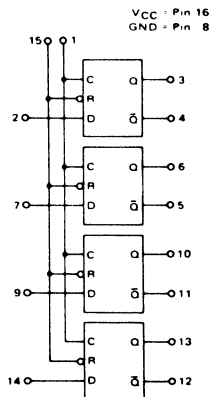
L00-16



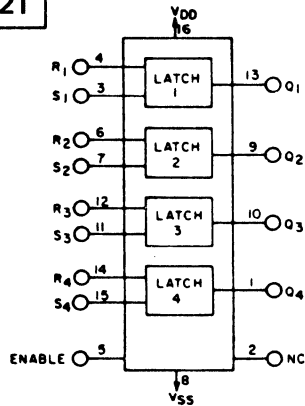
L00-17



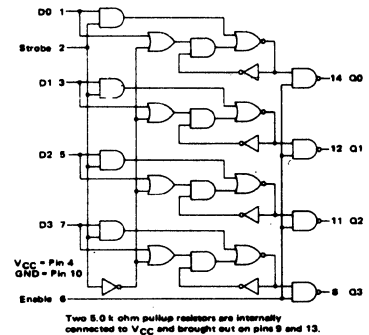
L00-20



L00-21

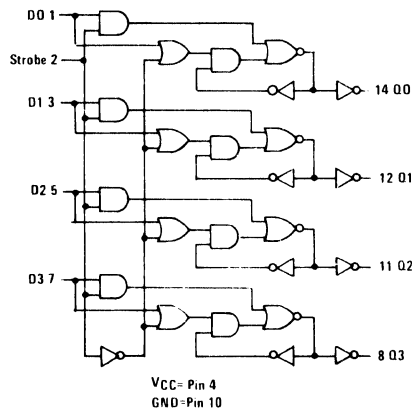


L00-22

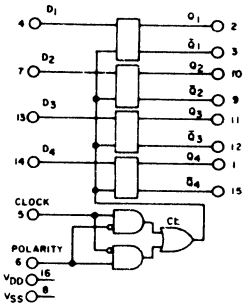


29. LOGIC/BLOCK DRAWINGS

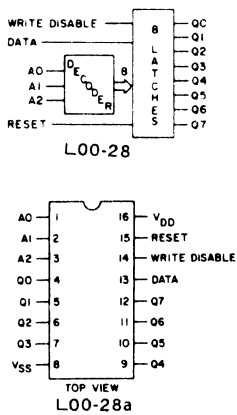
L00-23



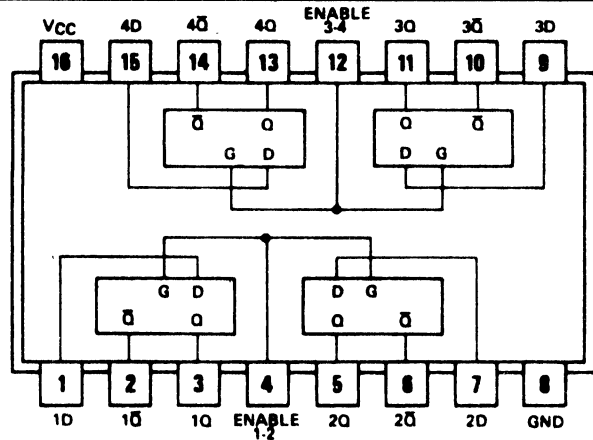
L00-27



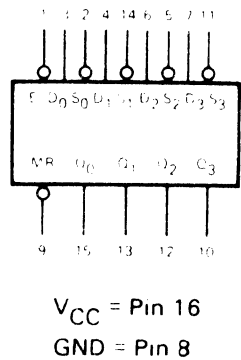
L00-28



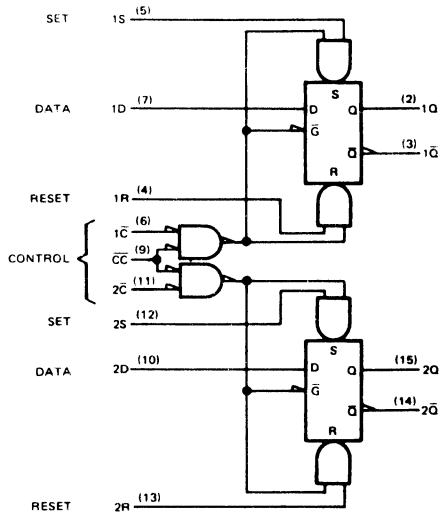
L00-29



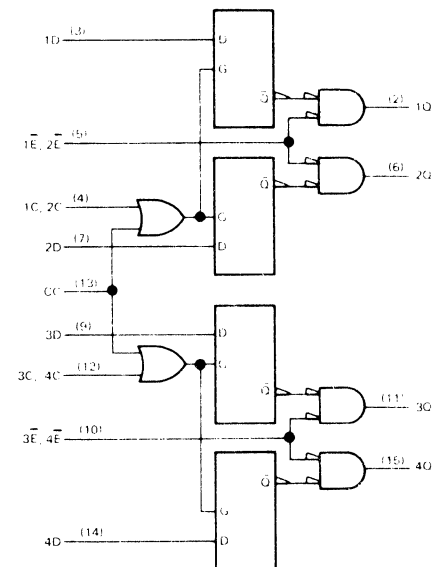
L00-33



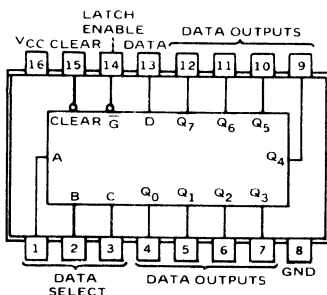
L00-36



L00-37

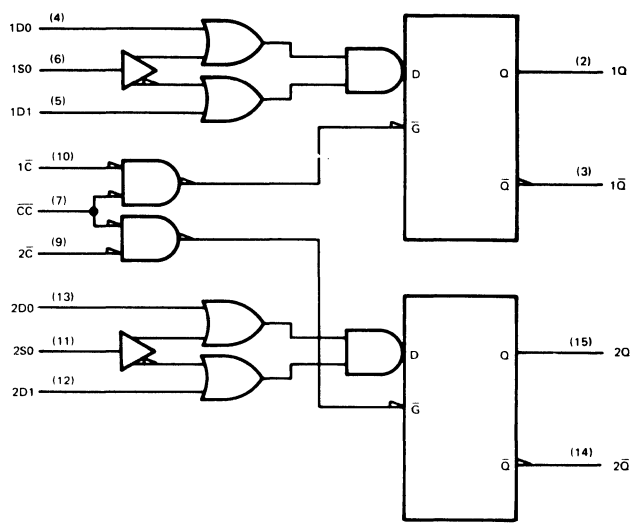


L00-35

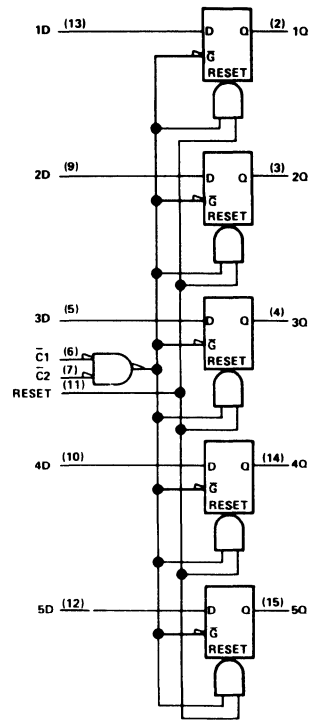


29. LOGIC/BLOCK DRAWINGS

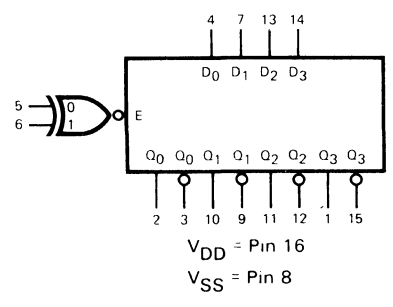
L00-38



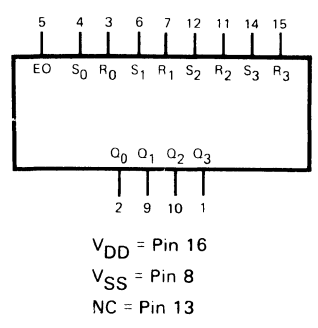
L00-39



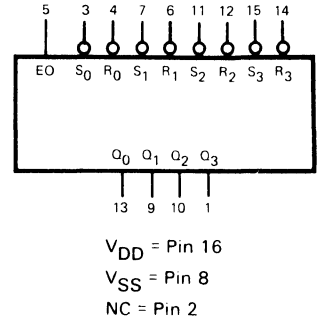
L00-43



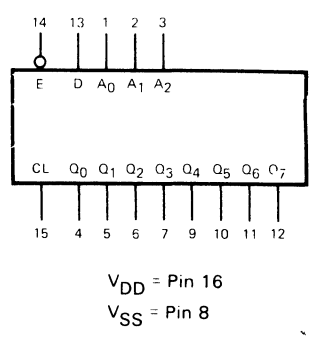
L00-44



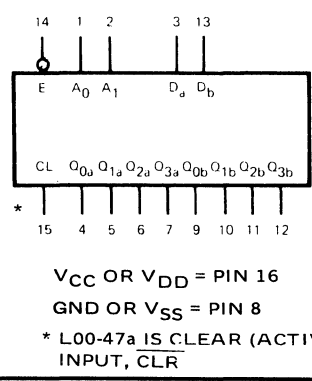
L00-45



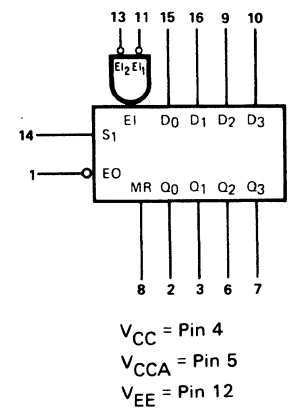
L00-46



L00-47

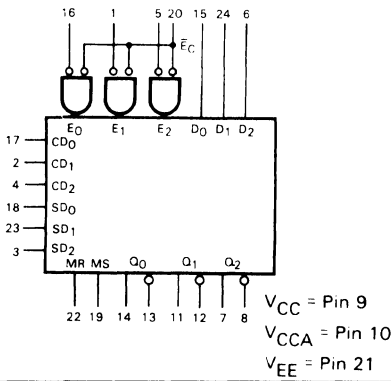


L00-48

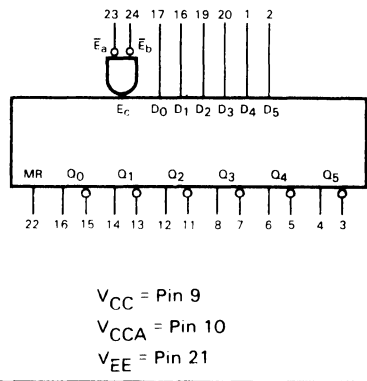


29. LOGIC/BLOCK DRAWINGS

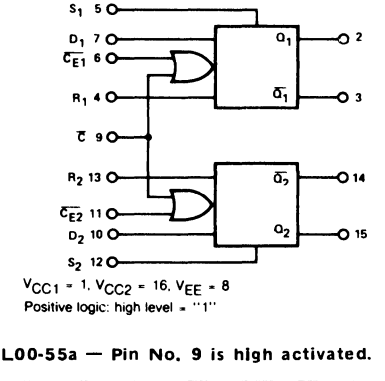
L00-50



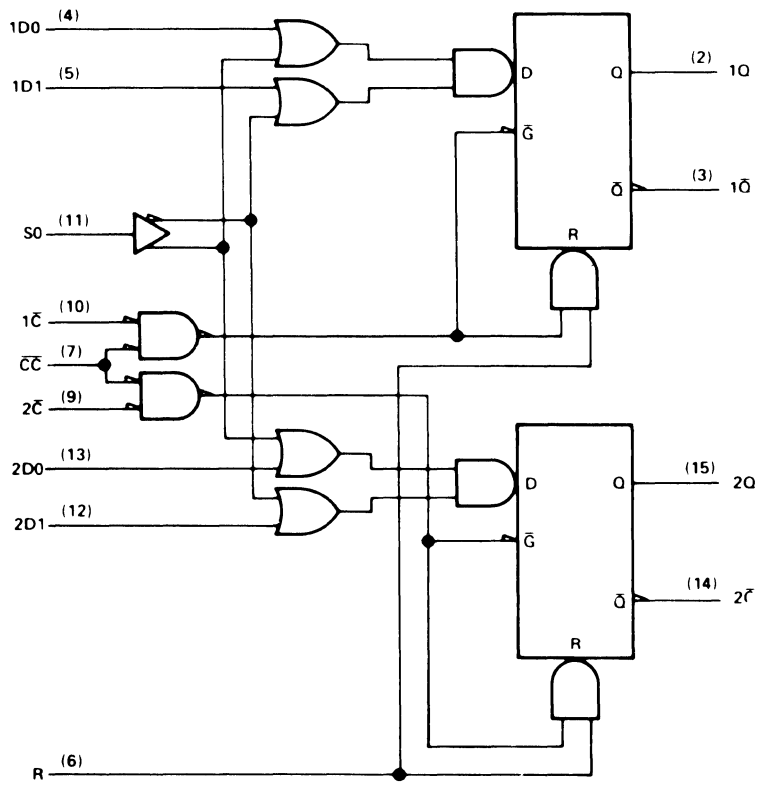
L00-51



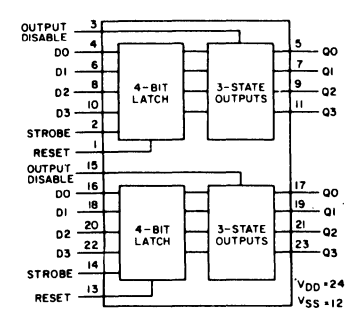
L00-55



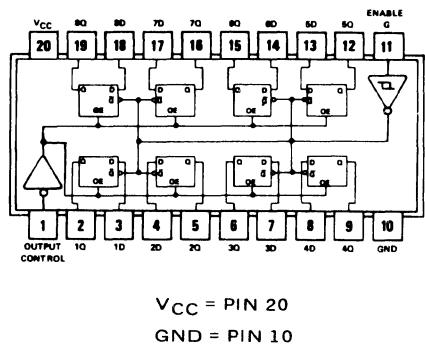
L00-56



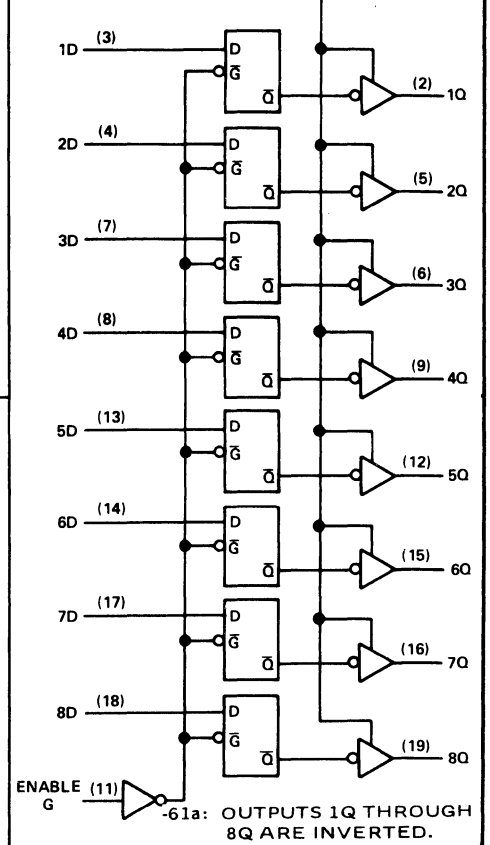
L00-59



L00-60

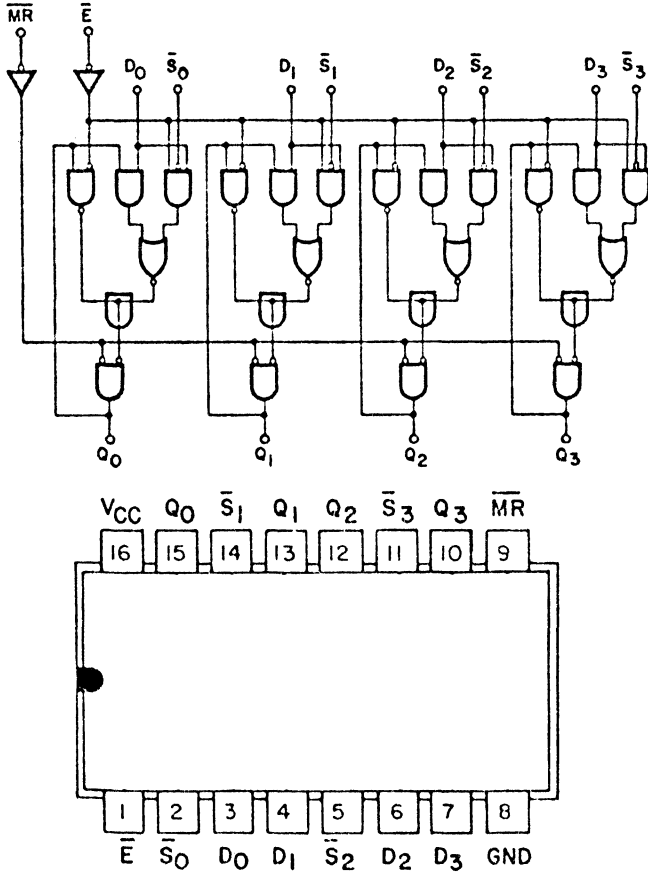


L00-61

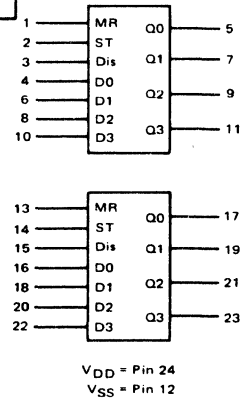


29. LOGIC/BLOCK DRAWINGS

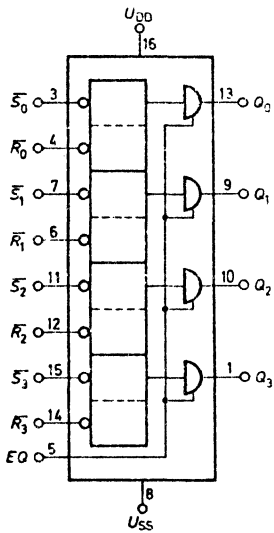
L00-65



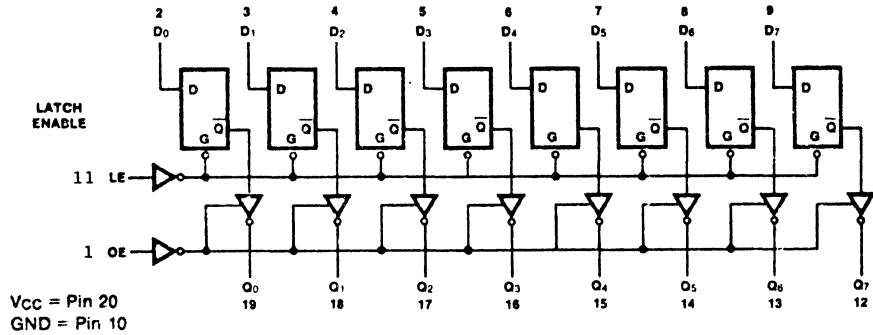
L00-67



L00-68

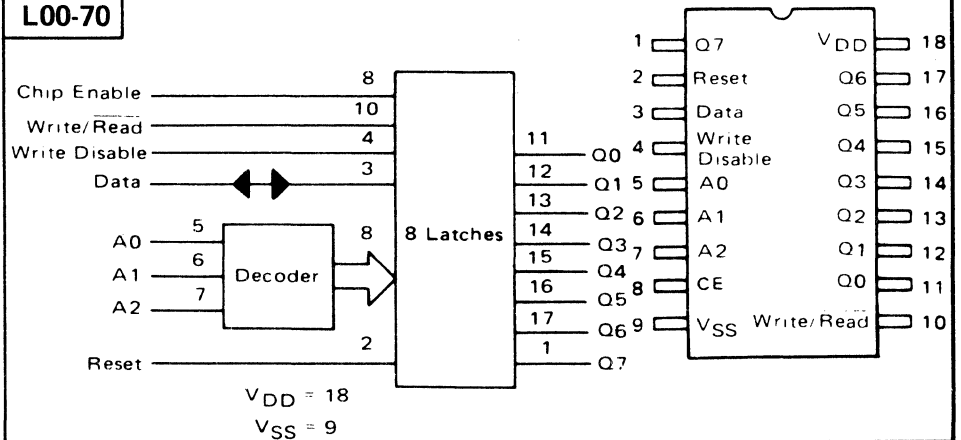


L00-69



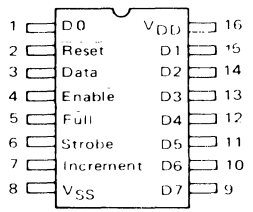
L00-69a — Outputs are inverted.

L00-70

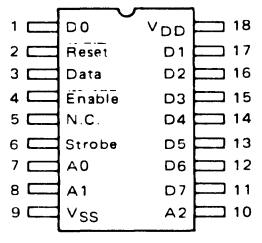


29. LOGIC/BLOCK DRAWINGS

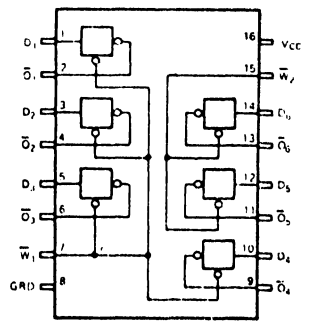
L00-71



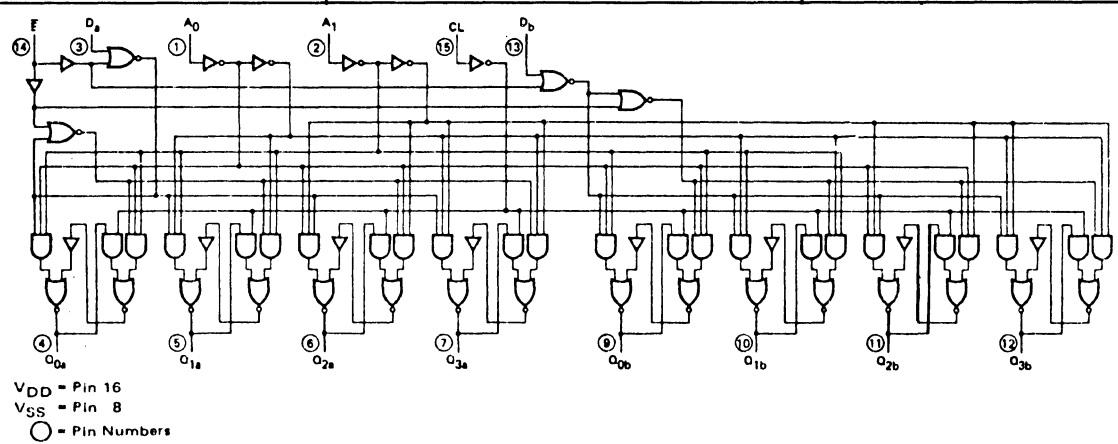
L00-72



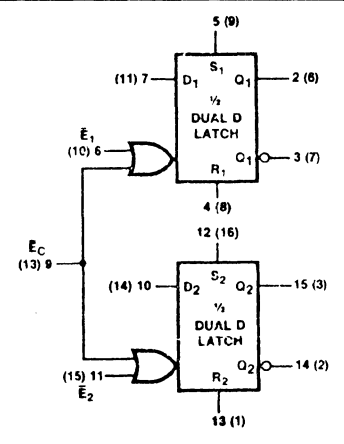
L00-73



L00-74

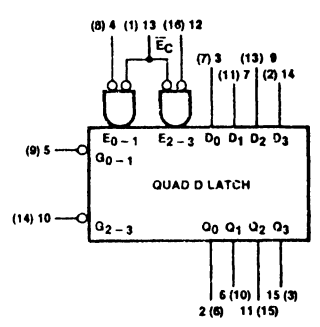


L00-75



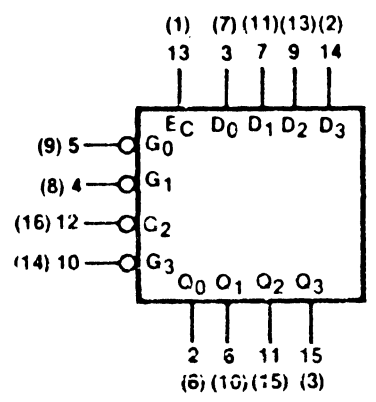
V_{CC1} = 1 (5)
V_{CC2} = 16 (4)
V_{EE} = 8 (12)
() = Flatpak

L00-76



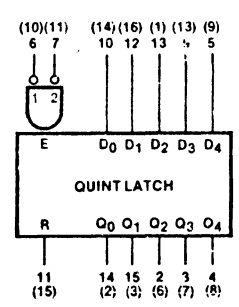
V_{CC} = Pins 1, 16 (5, 4)
V_{EE} = Pins 8 (12)
() = Flatpak

L00-77



V_{CC1} = Pin 1 (5)
V_{CC2} = Pin 16 (4)
V_{EE} = Pin 8 (12)
() = Flatpak

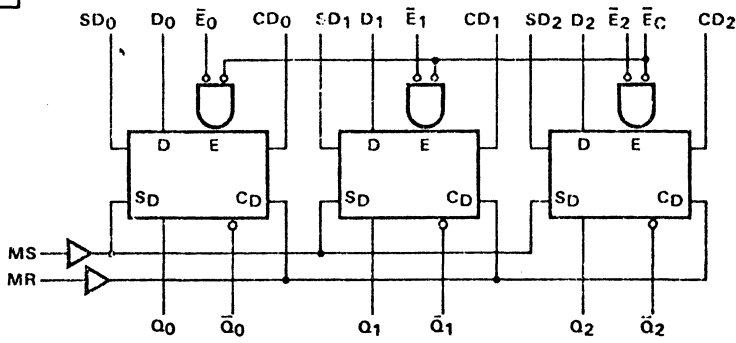
L00-78



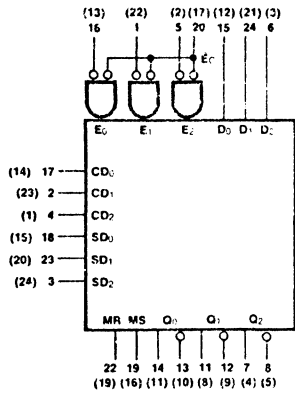
V_{CC1} = 1 (5)
V_{CC2} = 16 (4)
V_{EE} = 8 (12)
() = Flatpak

29. LOGIC/BLOCK DRAWINGS

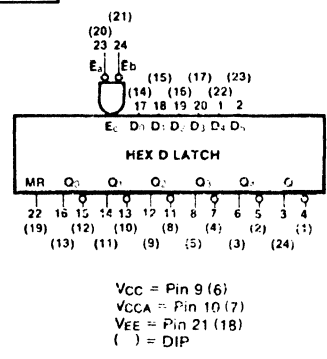
L00-79



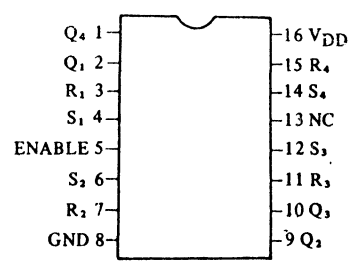
VCC = Pin 9 (6)
 VCCA = Pin 10 (7)
 VEE = Pin 21 (18)
 () = DIP



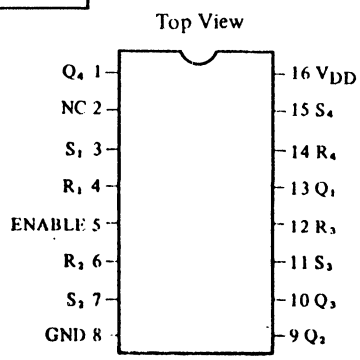
L00-80



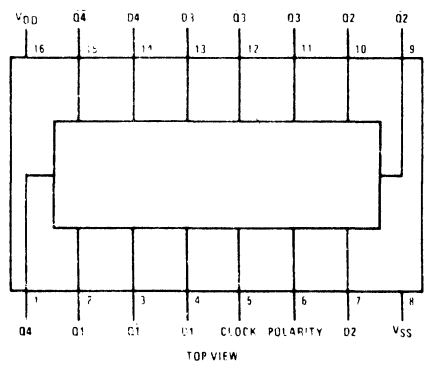
L00-82



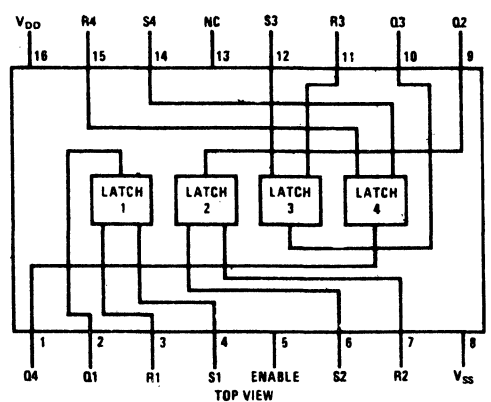
L00-83



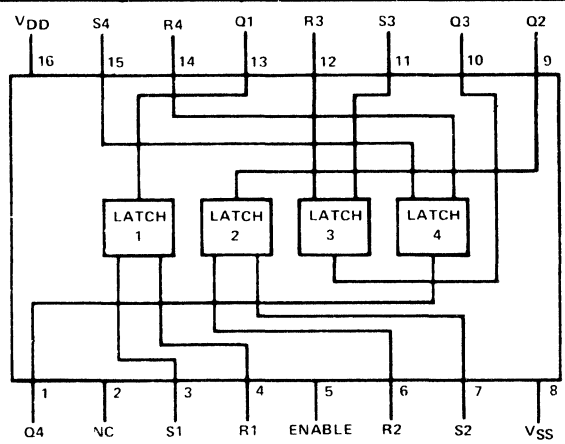
L00-84



L00-85

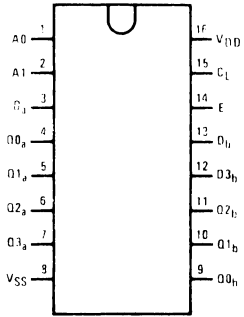


L00-86

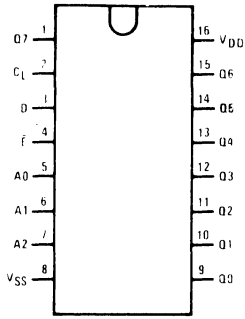


29. LOGIC/BLOCK DRAWINGS

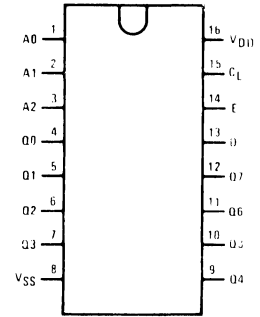
L00-87



L00-88



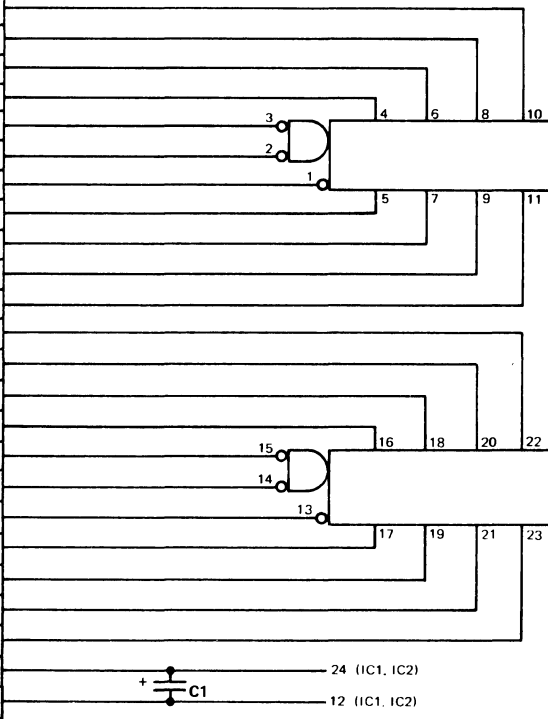
TOP VIEW
L00-88



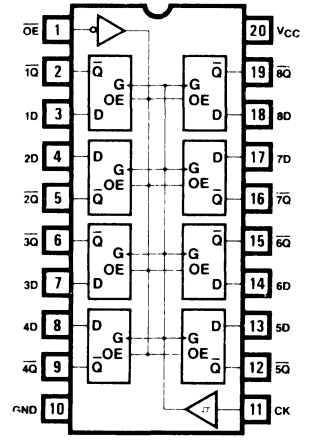
TOP VIEW
L00-88a

L00-90

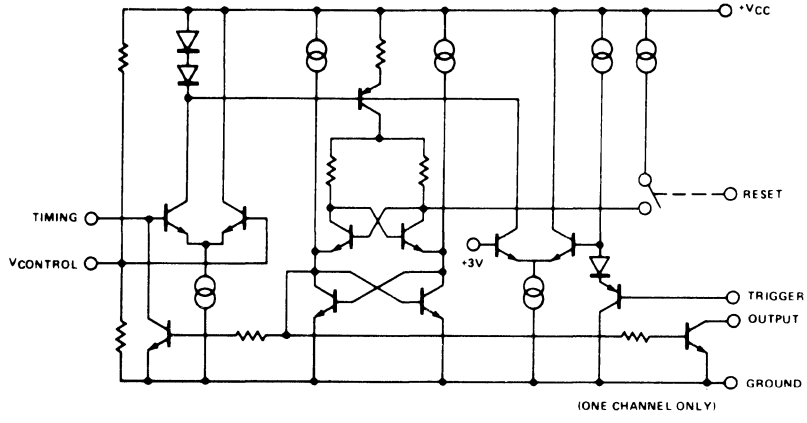
FUNCTION	CONNECTOR PINS	
	IC1	IC2
D ₃	48	20
D ₂	44	16
D ₁	40	12
D ₀	36	8
\bar{E}_1	34	6
\bar{E}_2	32	4
MR	30	2
Q ₀	38	10
Q ₁	42	14
Q ₂	46	18
Q ₃	50	22
D ₃	31	5
D ₂	35	9
D ₁	39	13
D ₀	43	17
\bar{E}_1	45	19
\bar{E}_2	47	21
MR	49	23
Q ₀	41	15
Q ₁	37	11
Q ₂	33	7
Q ₃	29	3
V _{CC}	51	
GRD	1 12 52	



L00-91

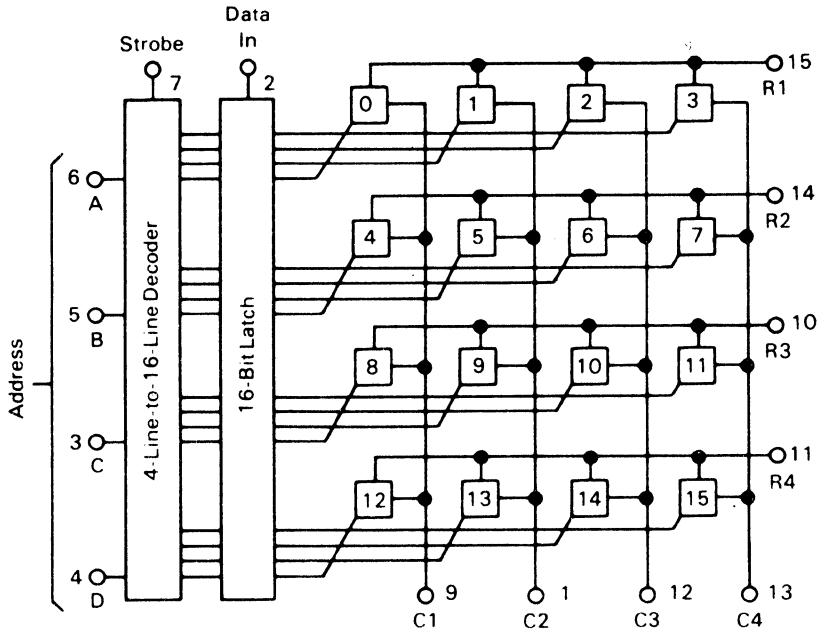


L00-95

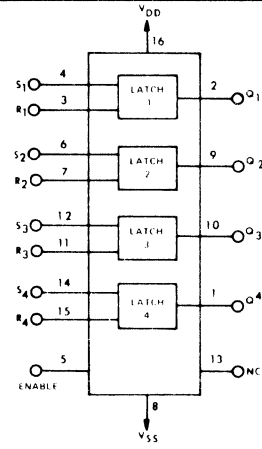


29. LOGIC/BLOCK DRAWINGS

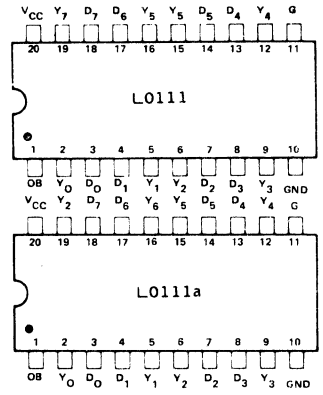
L0-102



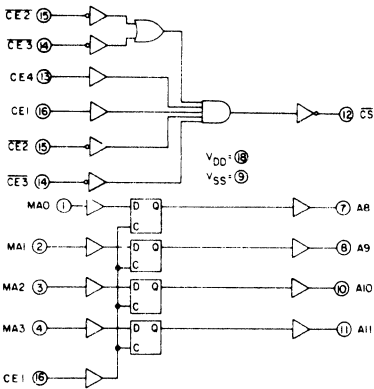
L0-106



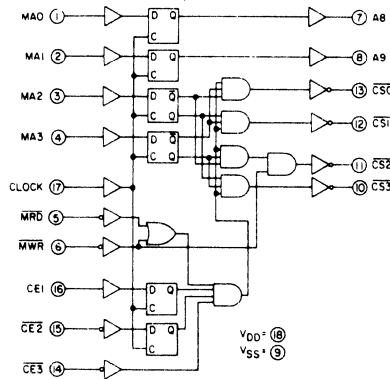
L0-111



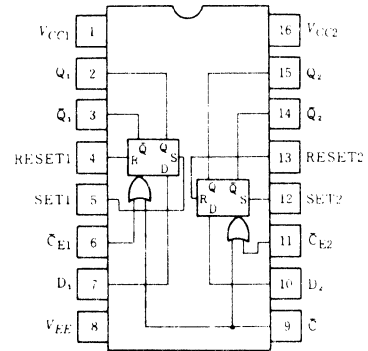
L0-114



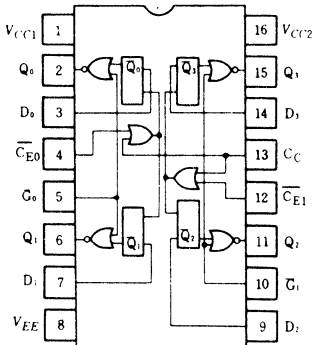
L0-115



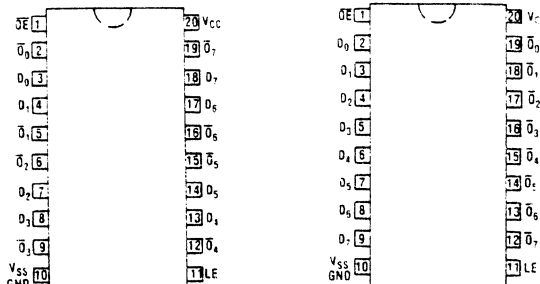
L0-117



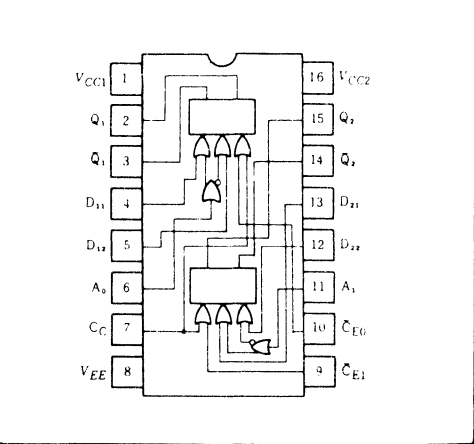
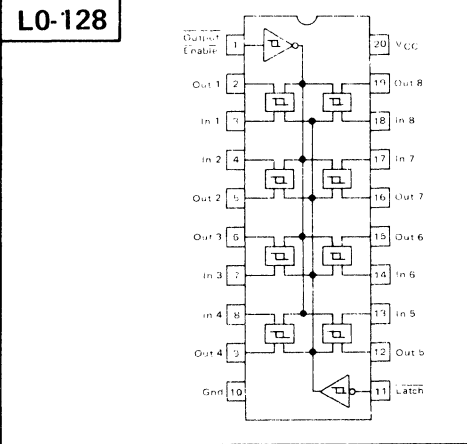
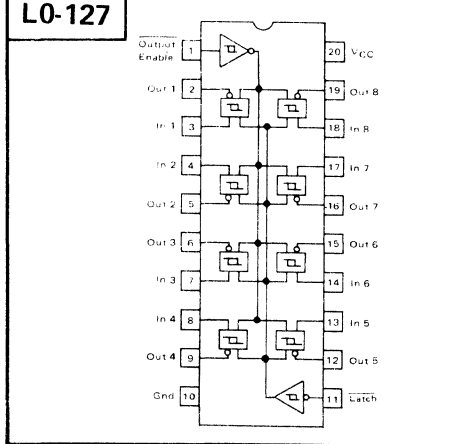
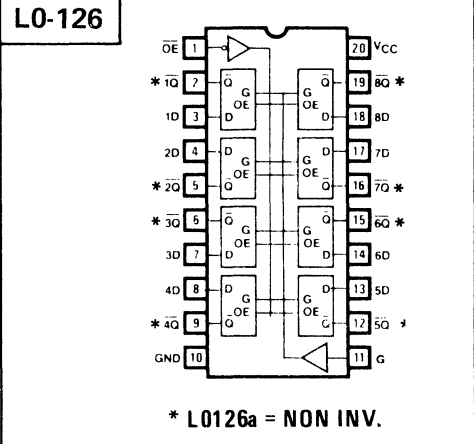
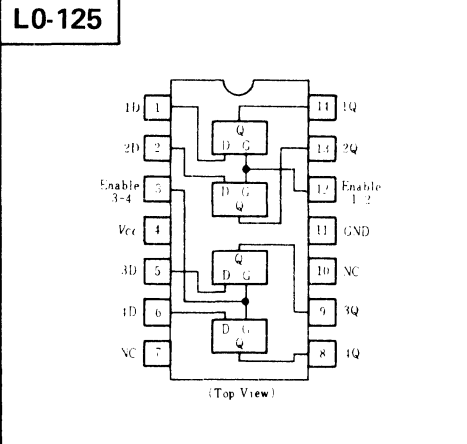
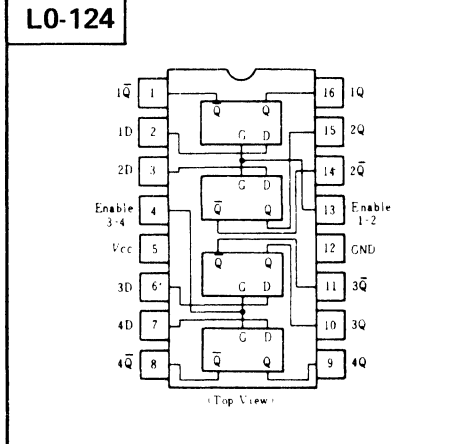
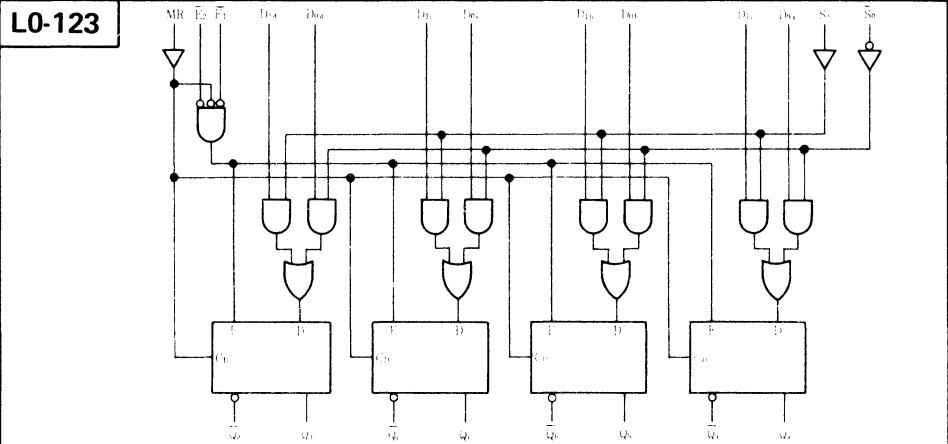
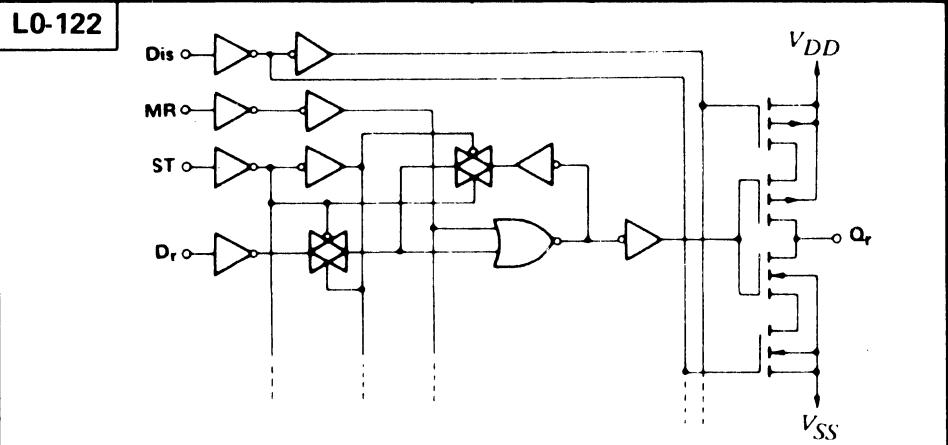
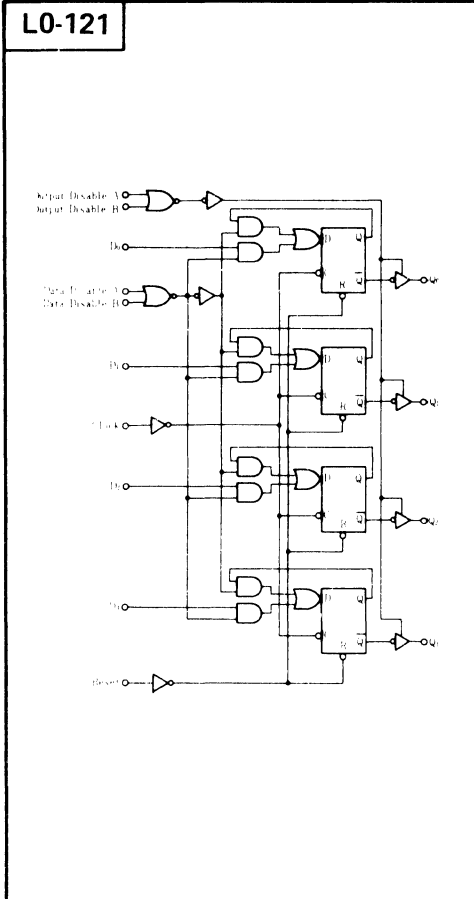
L0-118



L0-120

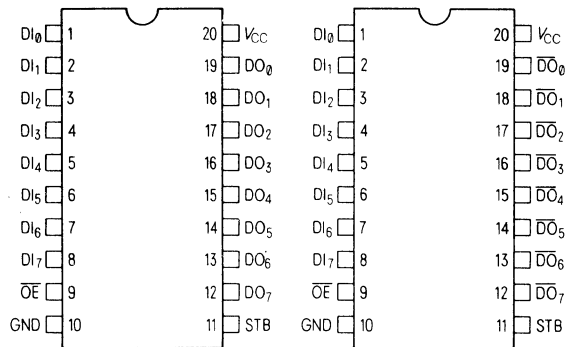


29. LOGIC/BLOCK DRAWINGS

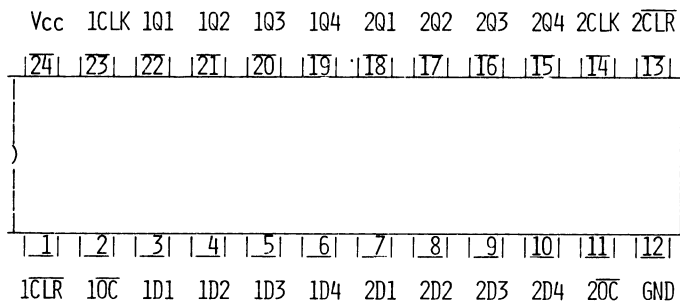


29. LOGIC/BLOCK DRAWINGS

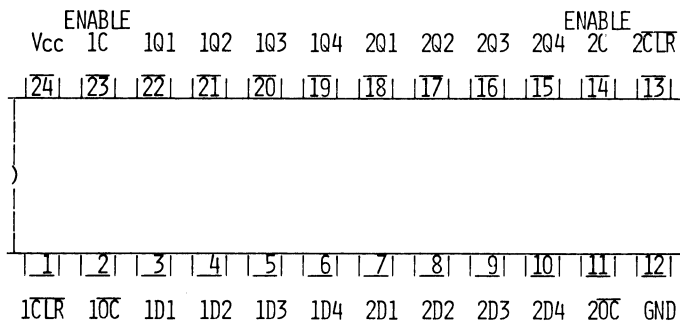
L0-131



L0-132

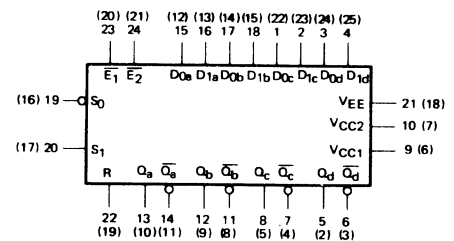


L0-133



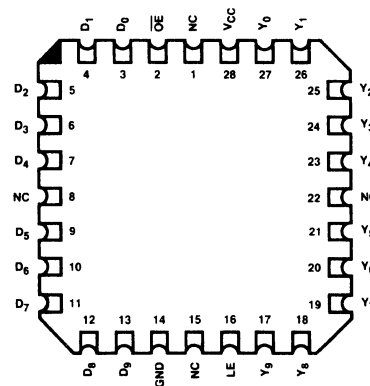
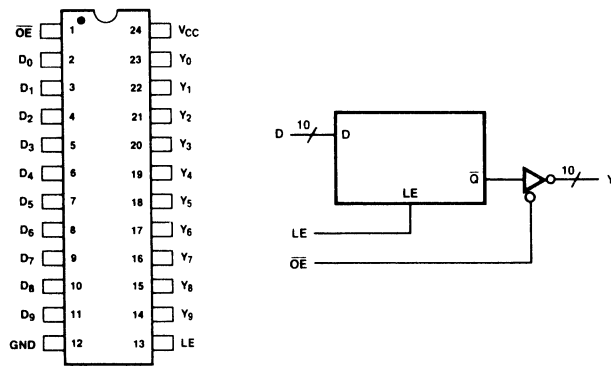
L0-134

Quad 2-Way Multiplexer-Latch



L0-137

Ten Bit Bus Interface Latch



29. LOGIC/BLOCK DRAWINGS

L0-138 Nine/Bit Bus Interface Latch

L0-139

N00-2

V_{CC} = Pin 16
GND = Pin 8

N00-3

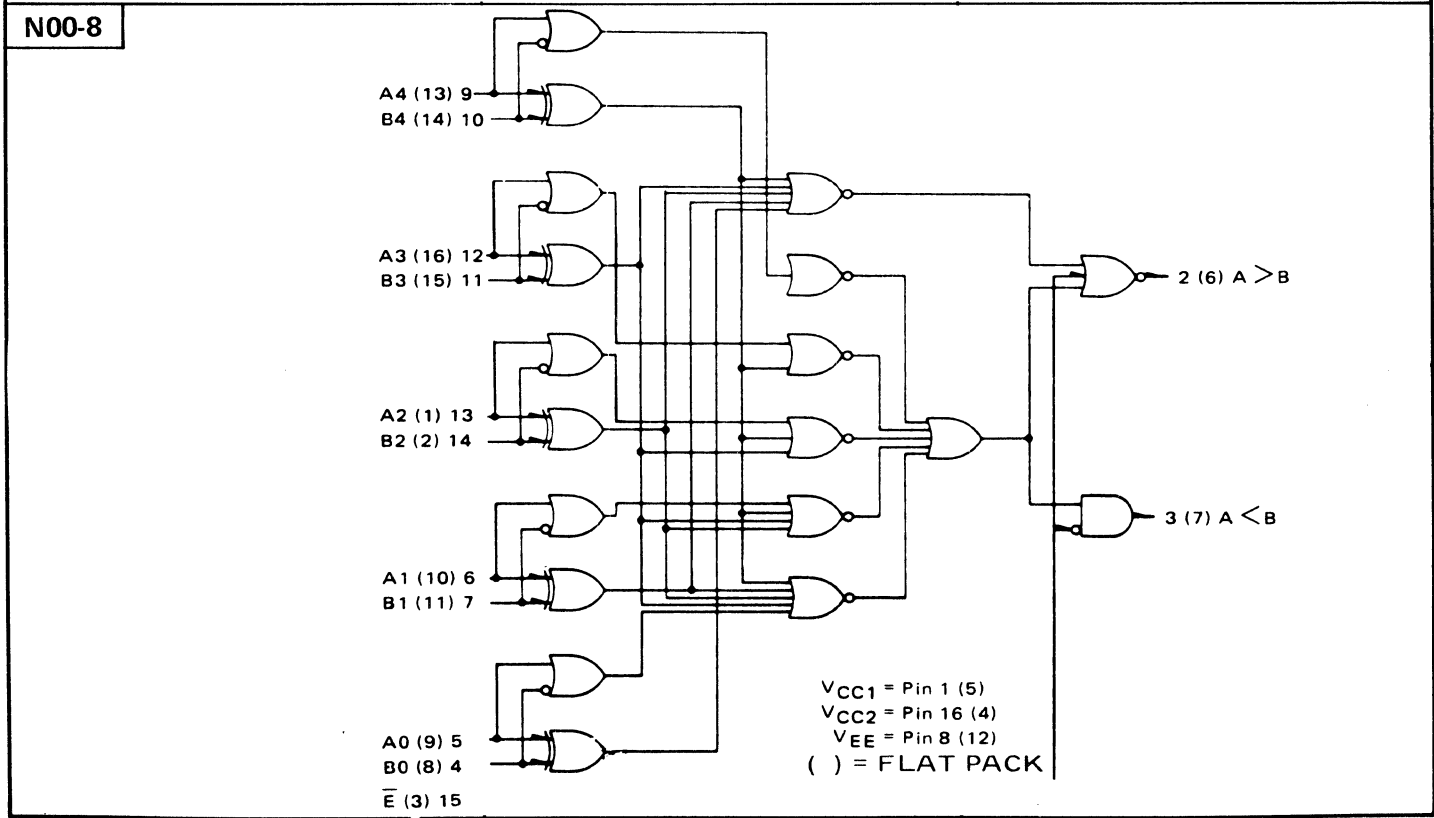
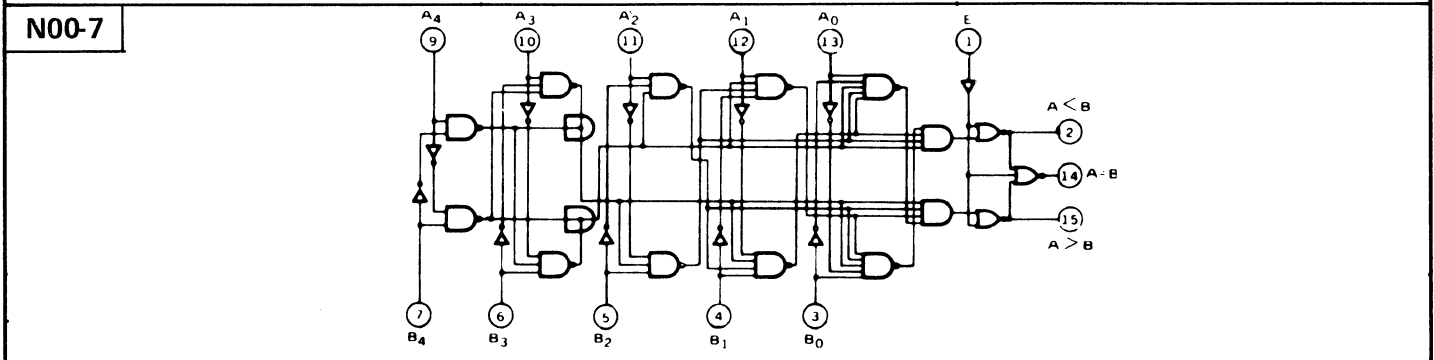
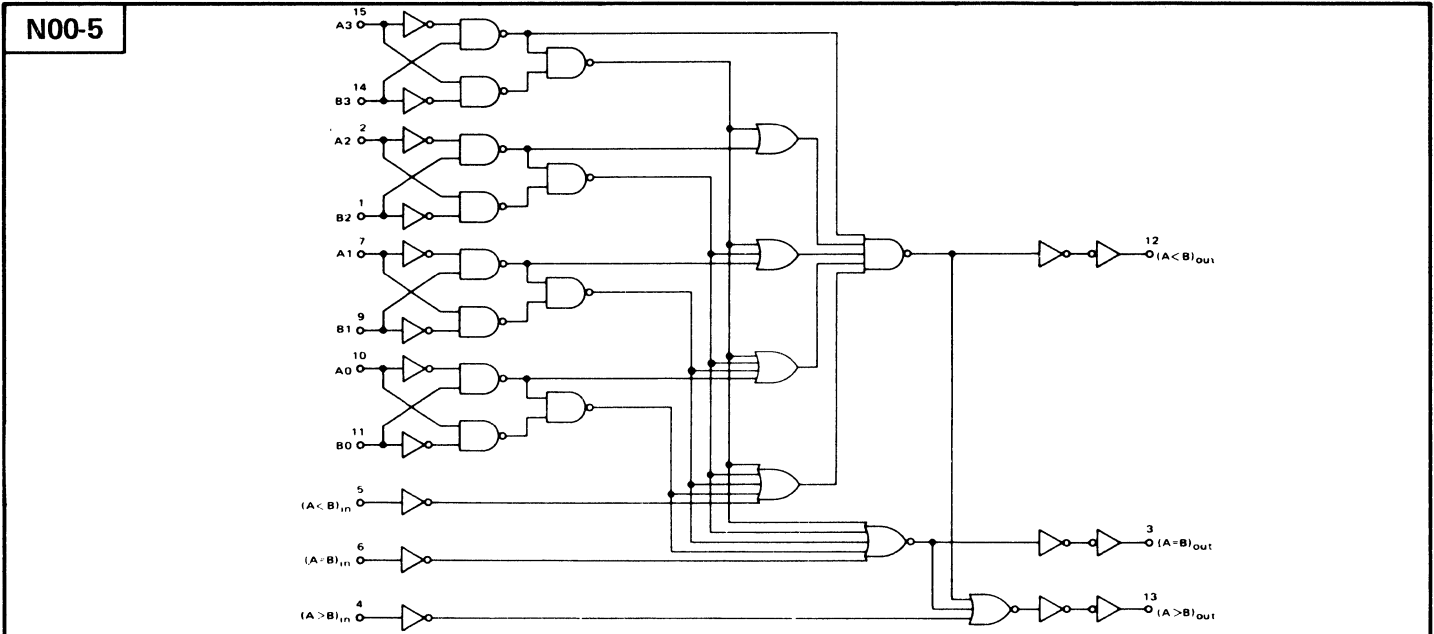
V_{CC} = Pin 16
GND = Pin 8

N00-4

V_{CC} = Pin 16
GND = Pin 8

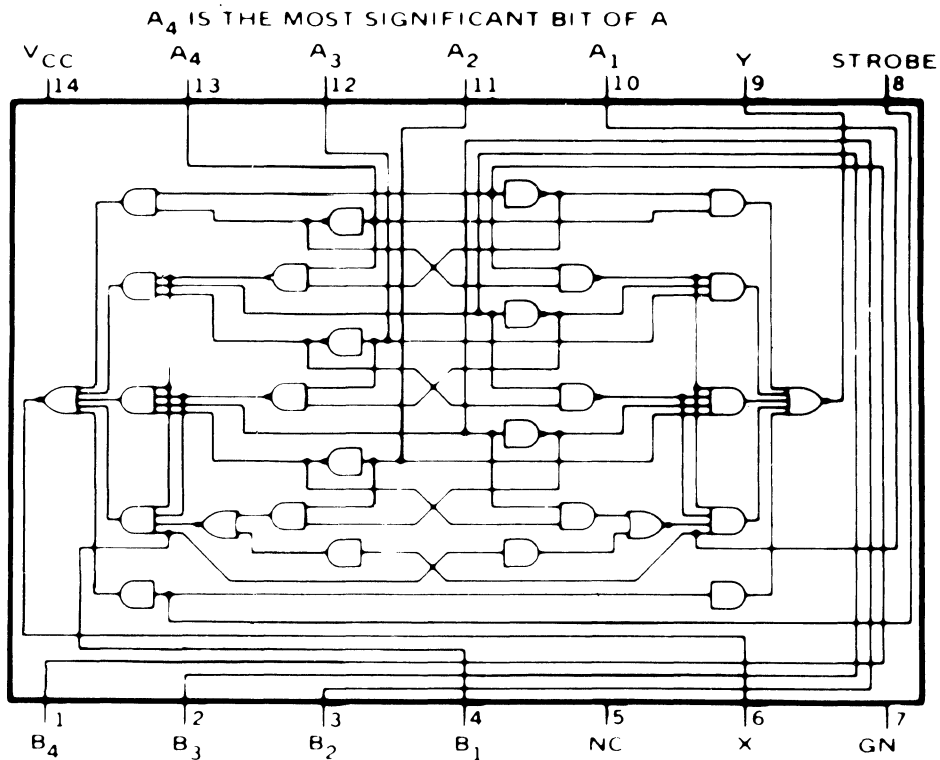
* AVAILABLE IN BOTH INVERTING AND NON-INVERTING ENABLE INPUT.

29. LOGIC/BLOCK DRAWINGS

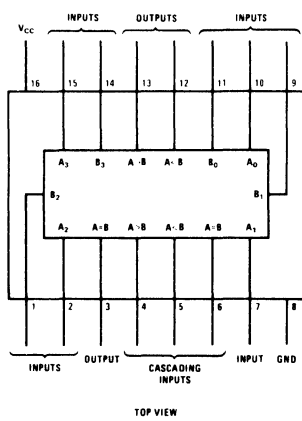


29. LOGIC/BLOCK DRAWINGS

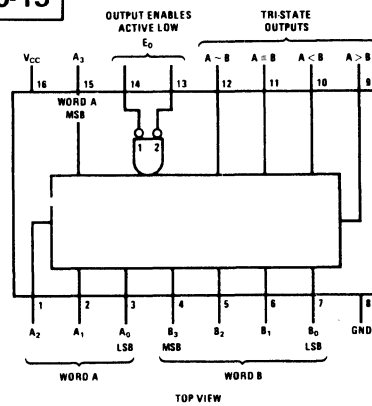
N00-13



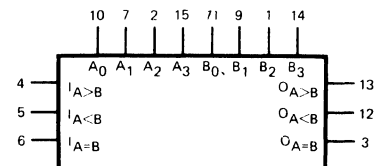
N00-14



N00-15

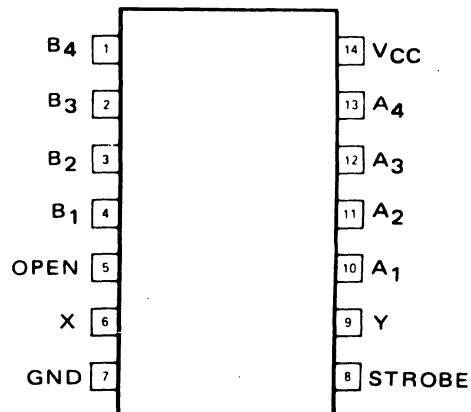


N00-18

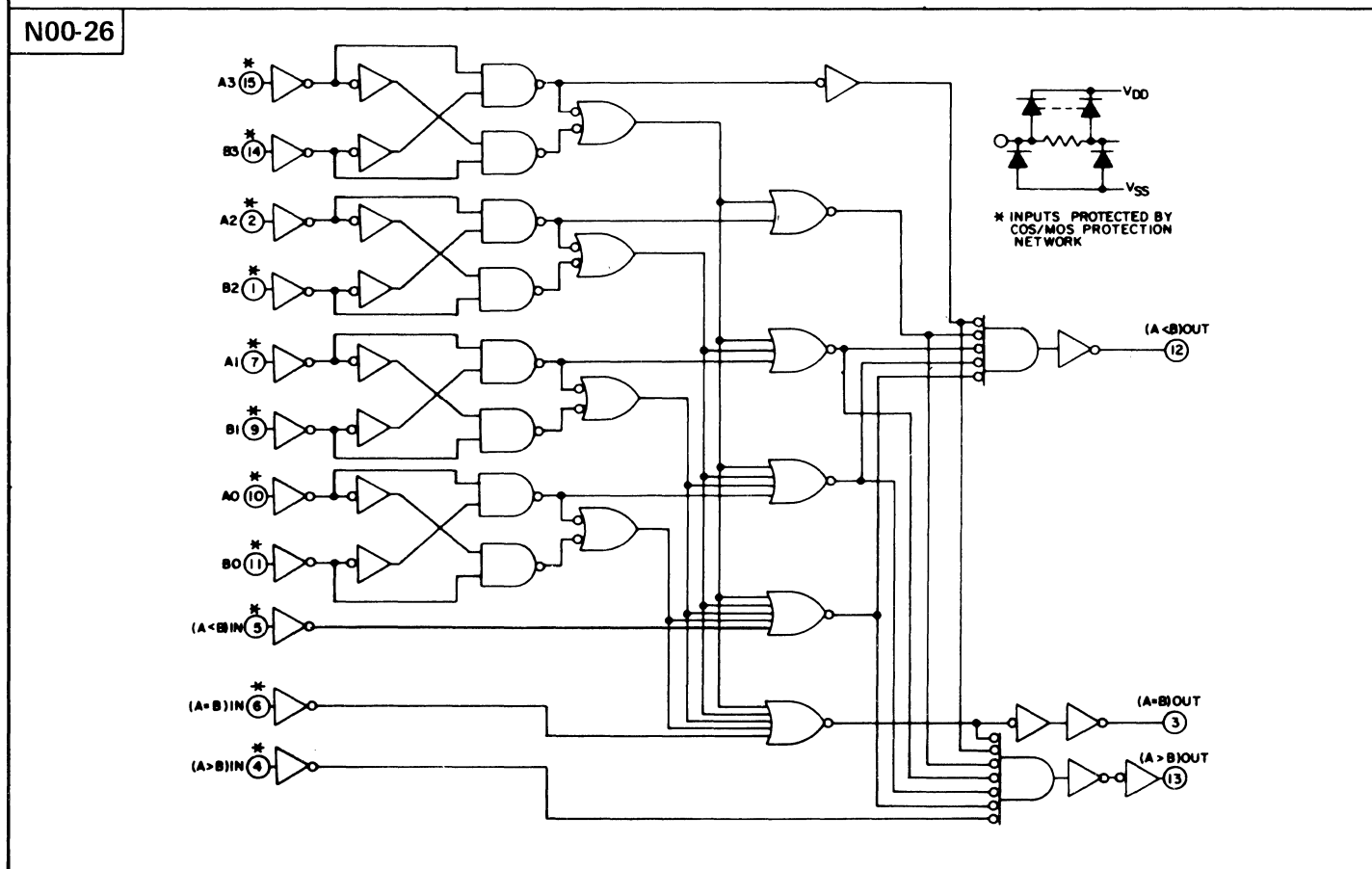
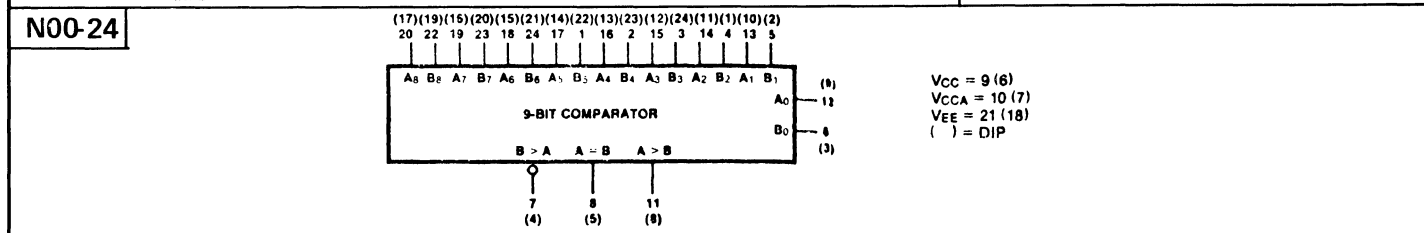
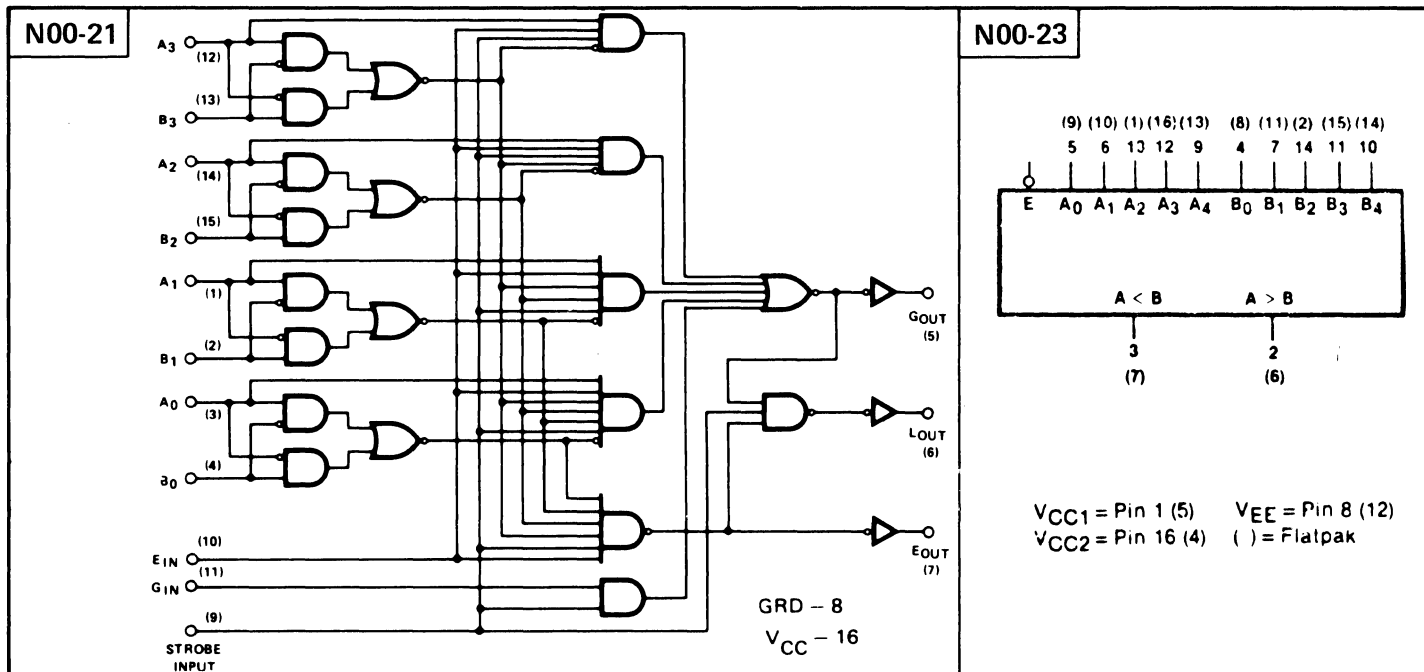


V_{DD} = Pin 16
 V_{SS} = Pin 8

N00-20

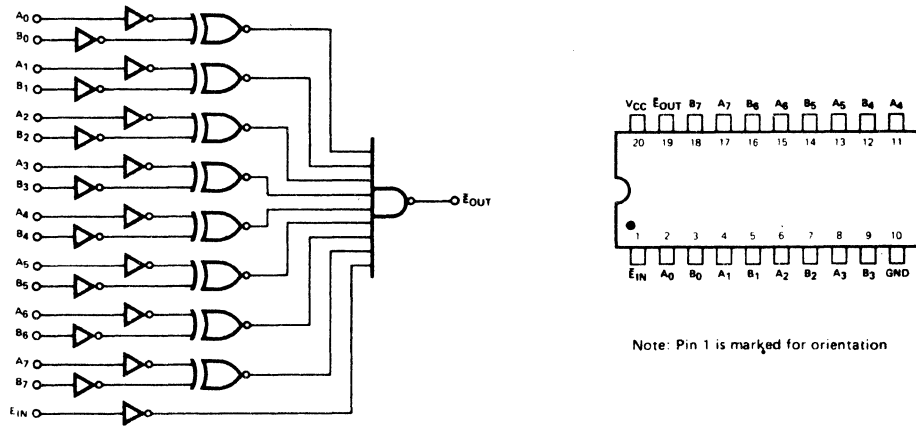


29. LOGIC/BLOCK DRAWINGS

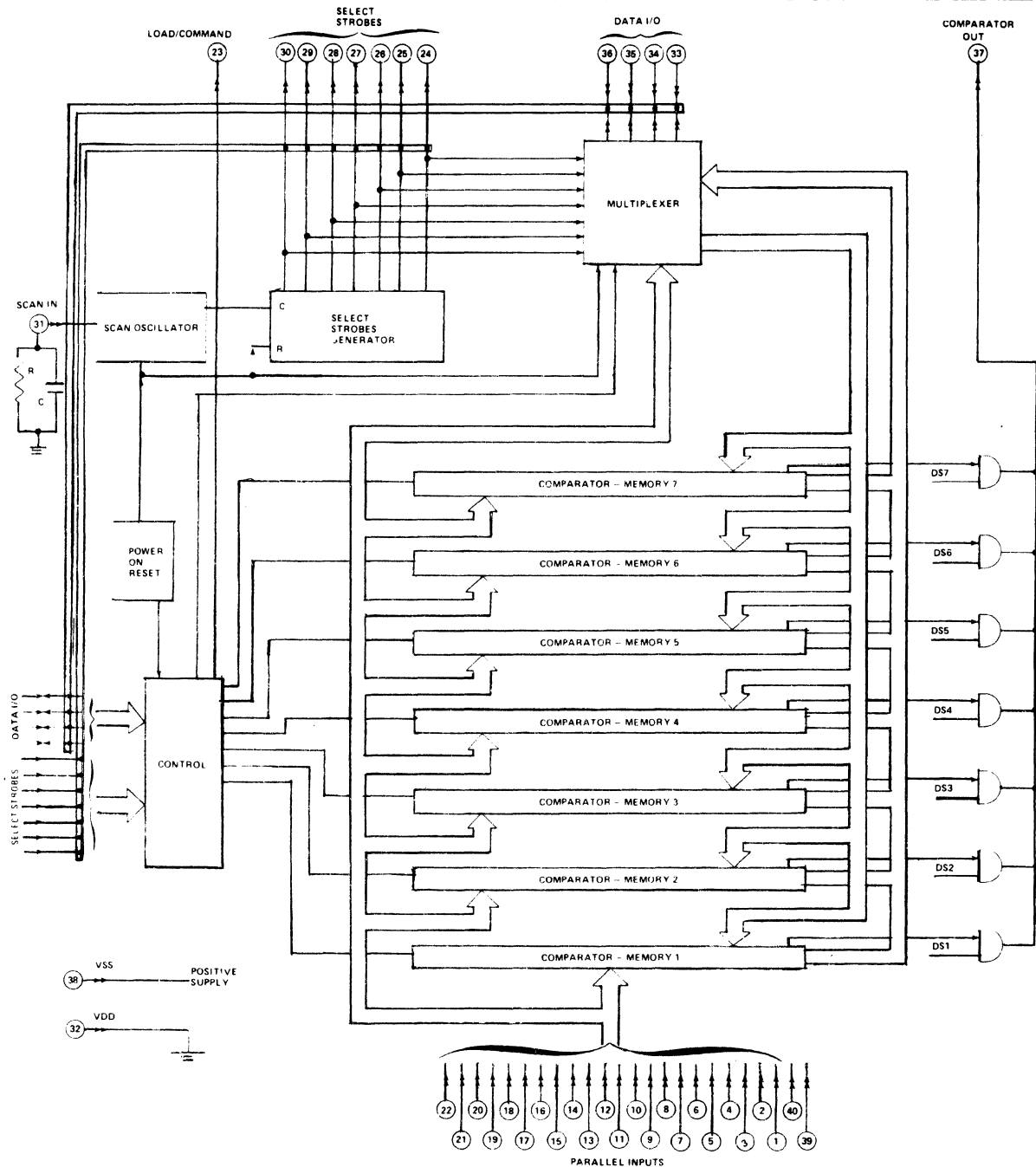


29. LOGIC/BLOCK DRAWINGS

N00-29

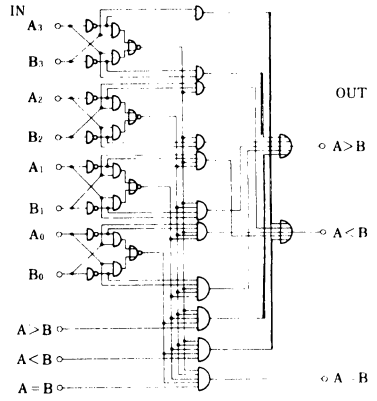


N00-30

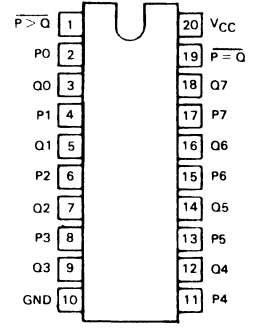


29. LOGIC/BLOCK DRAWINGS

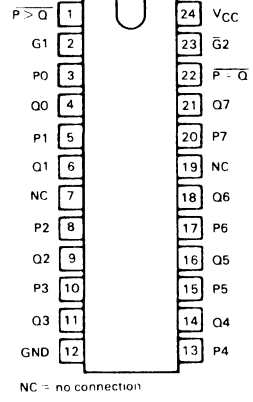
N00-31



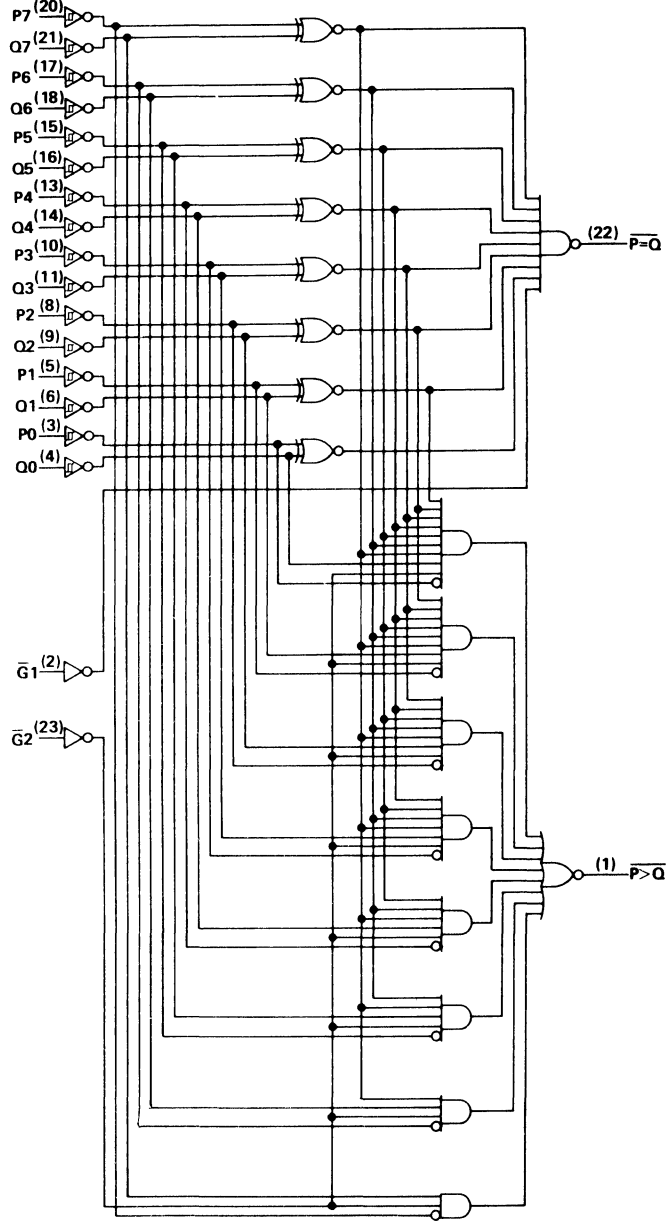
N00-32



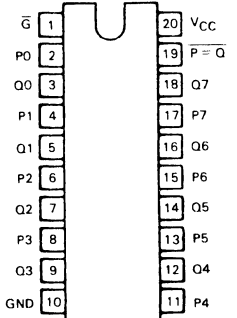
N00-33



N00-36

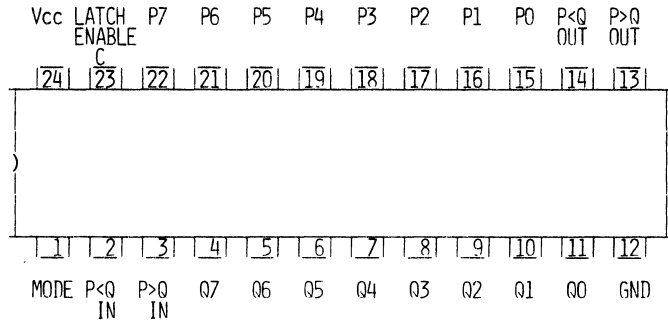


N00-34

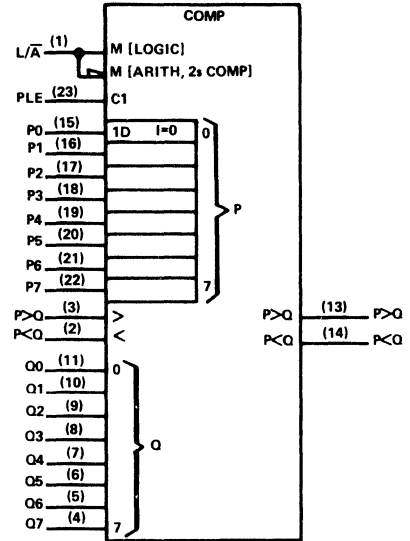


29. LOGIC/BLOCK DRAWINGS

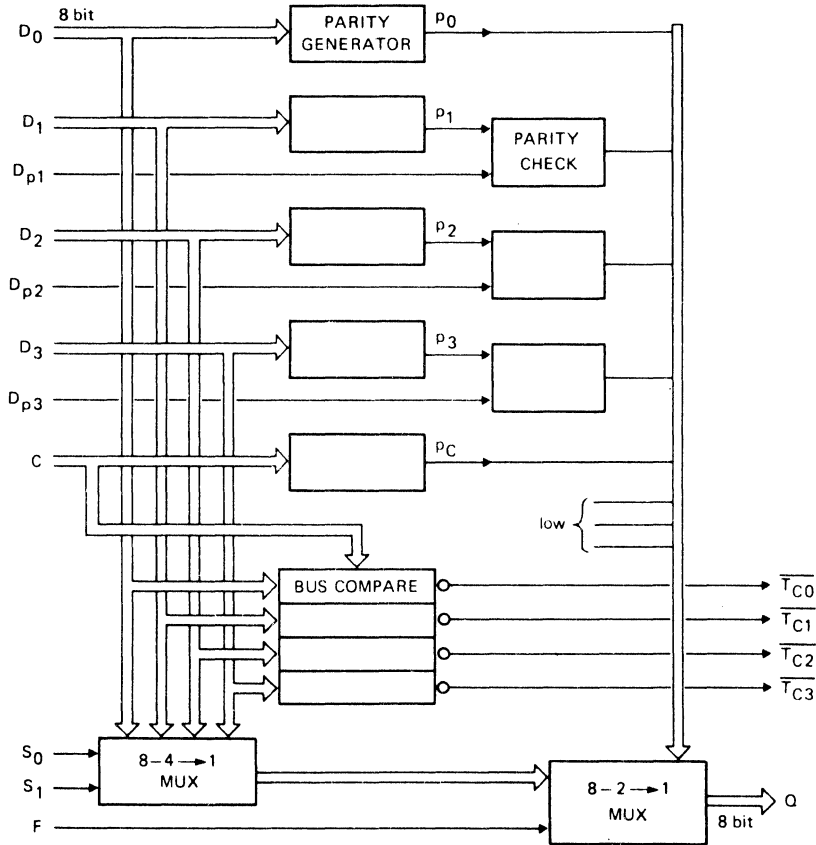
N00-38



N00-39

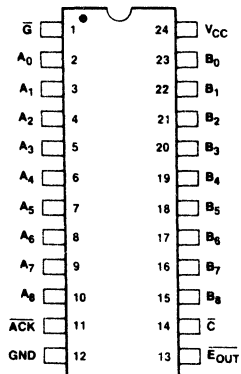


N00-41

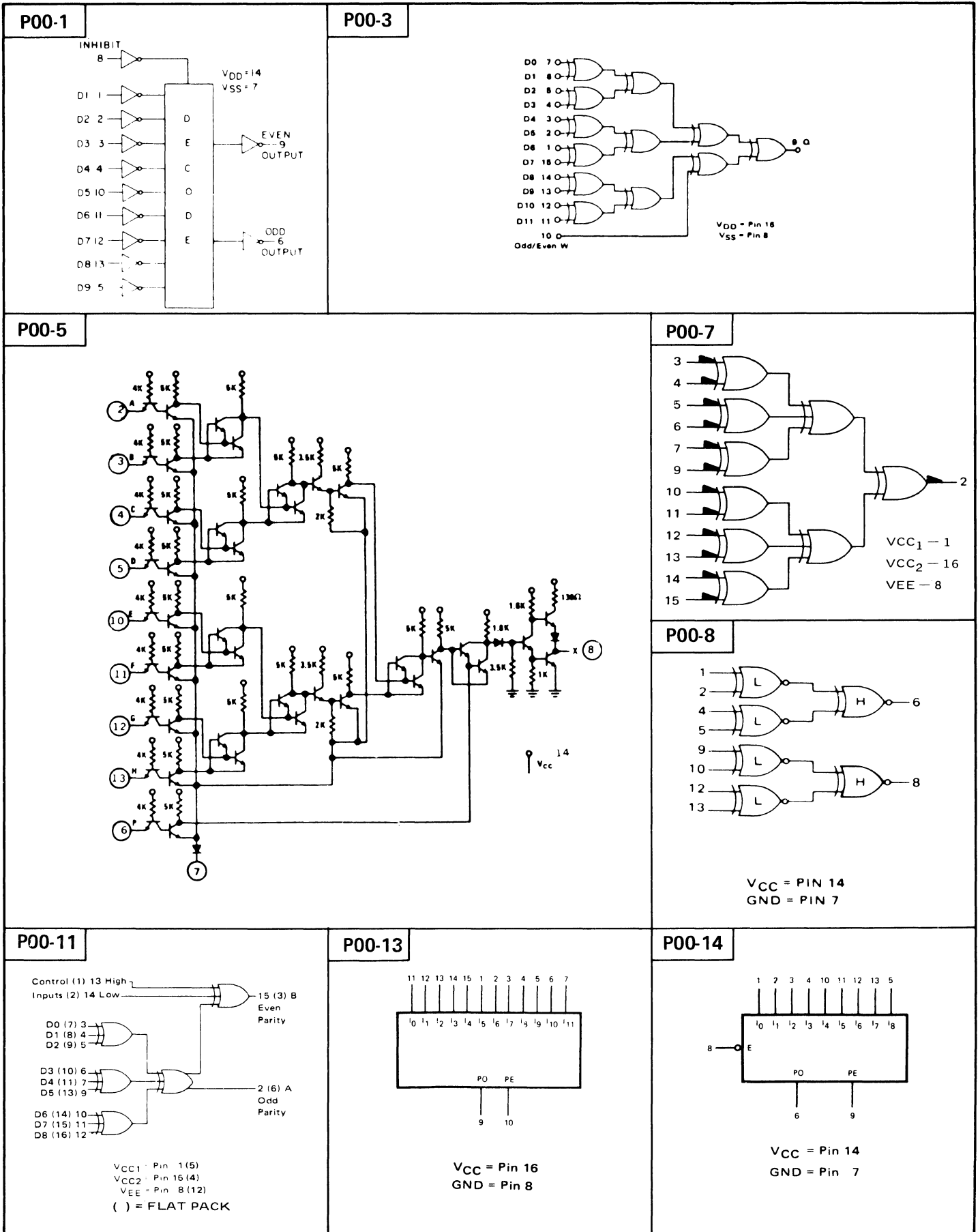


4-BYTE Comparator/Multiplexer

N00-42

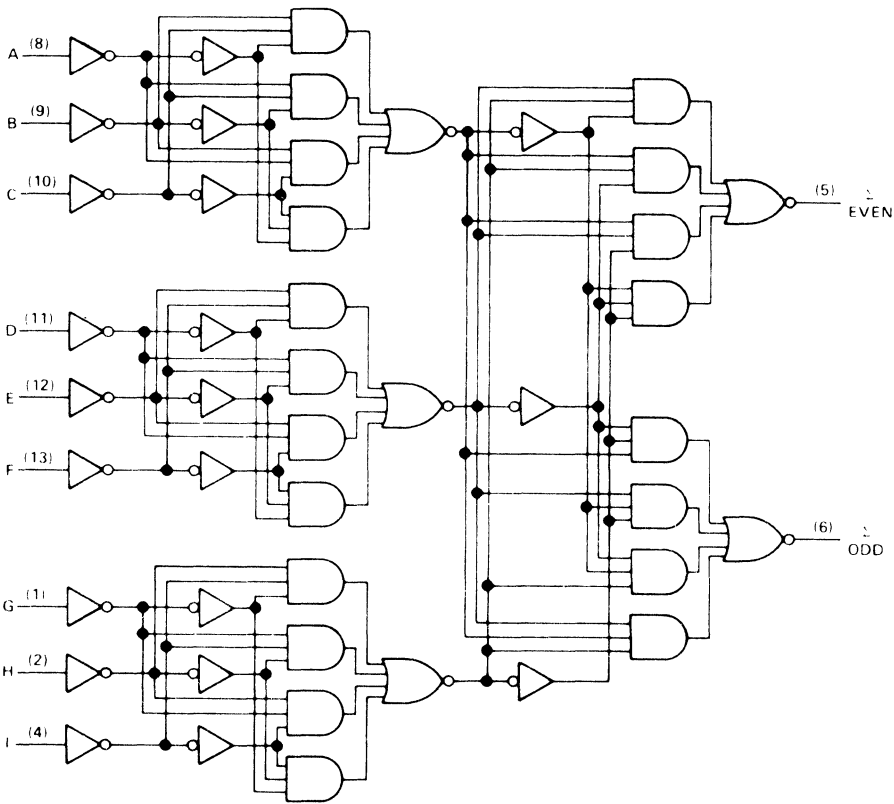


29. LOGIC/BLOCK DRAWINGS

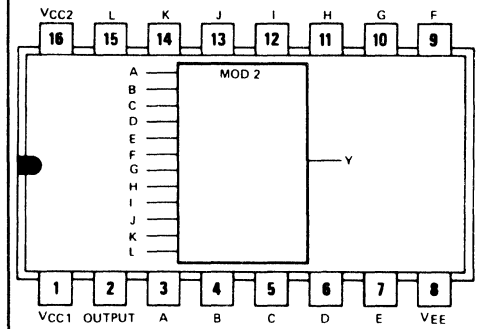


29. LOGIC/BLOCK DRAWINGS

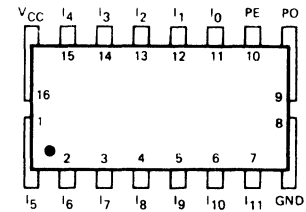
P00-15



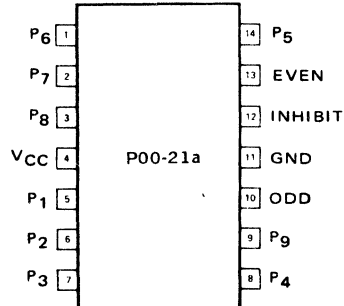
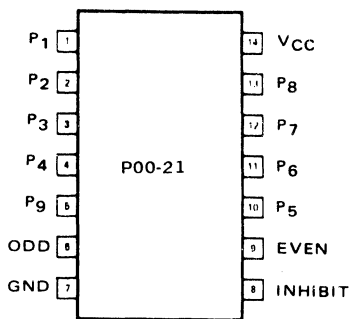
P00-16



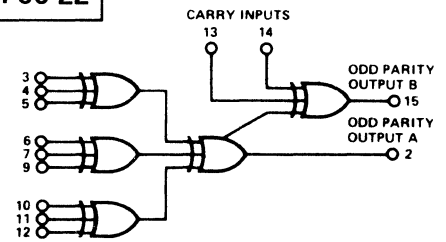
P00-19



P00-21

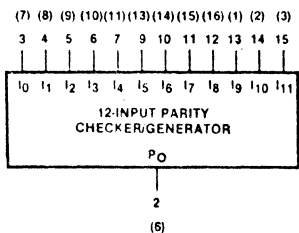


P00-22



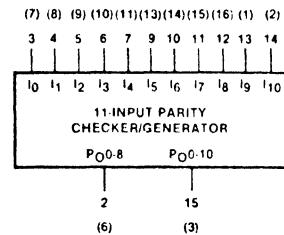
VCC1 = 1, VCC2 = 16, VEE = 8

P00-23



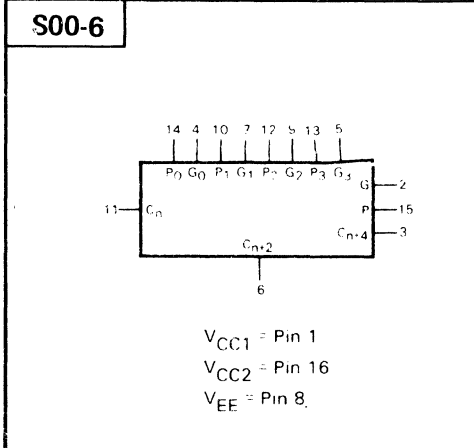
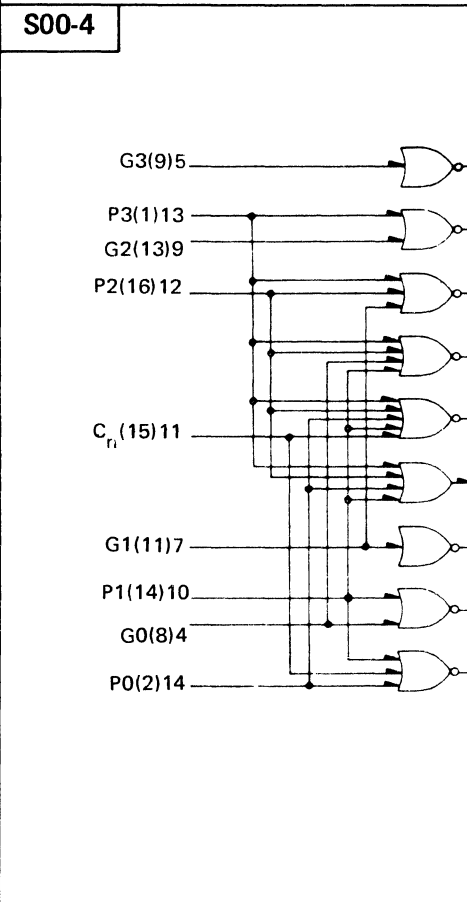
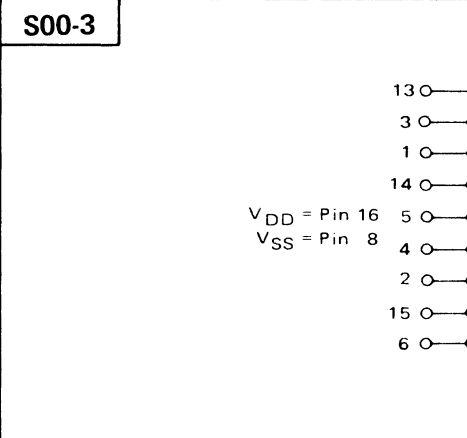
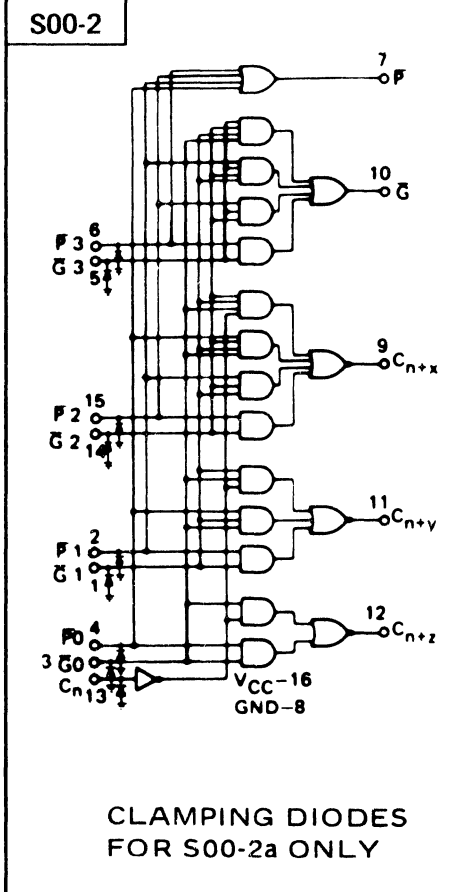
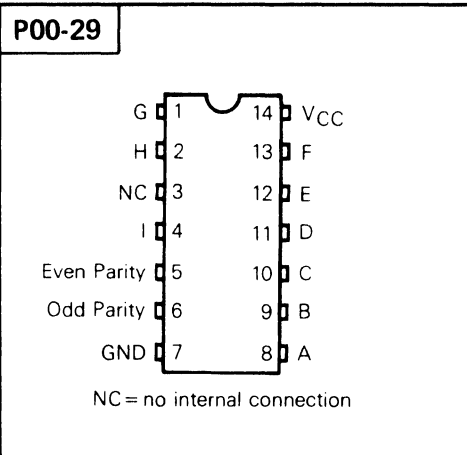
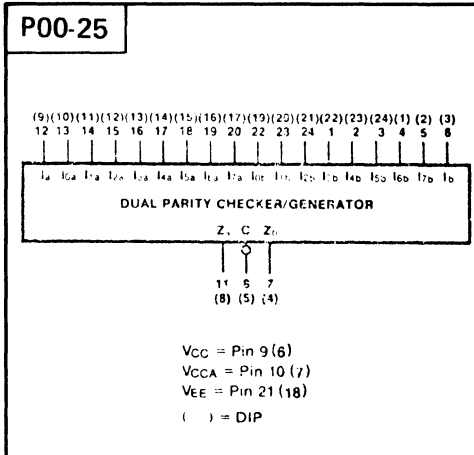
VCC1 = 1 (5)
VCC2 = 16 (4)
VEE = 8 (12)
() = Flatpak

P00-24



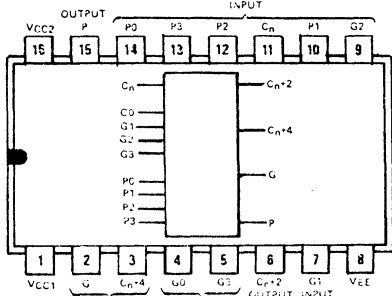
VCC1 = 1 (5)
VCC2 = 16 (4)
VEE = 8 (12)
() = Flatpak

29. LOGIC/BLOCK DRAWINGS

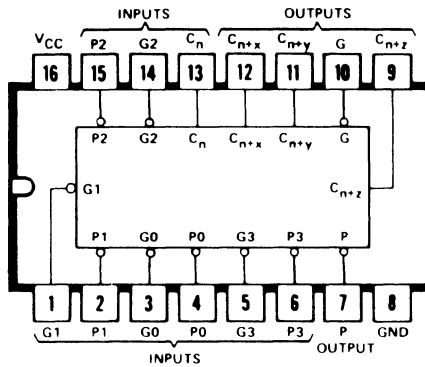


29. LOGIC/BLOCK DRAWINGS

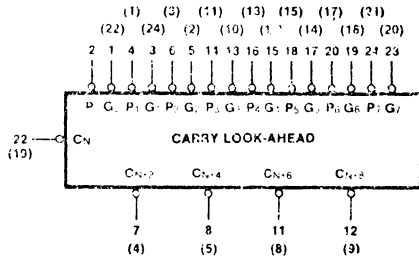
S00-8



S00-9

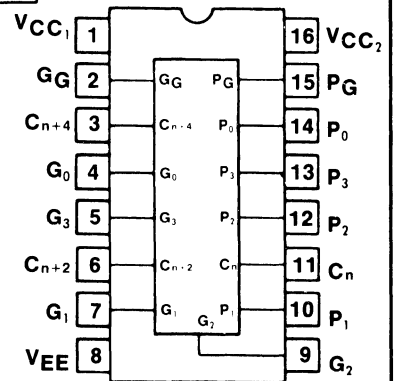


S00-10

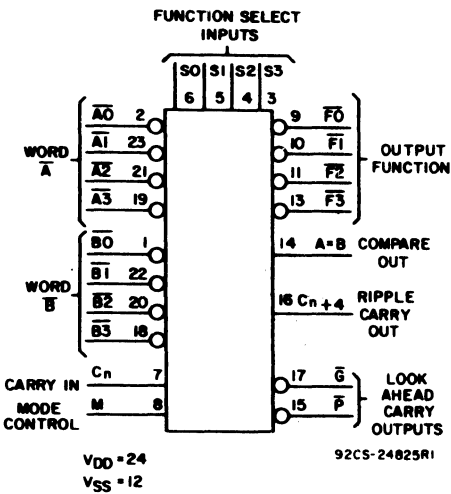


VCC = Pin 9 (6)
 VCCA = Pin 10 (7)
 VEE = Pin 21 (18)
 () = DIP

S00-11



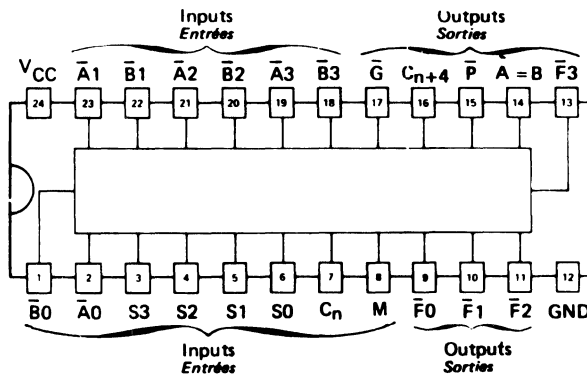
U00-1



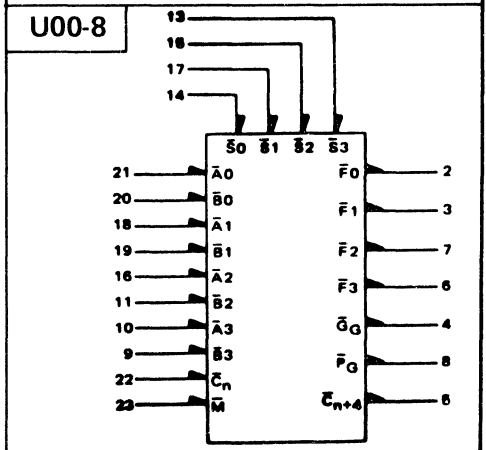
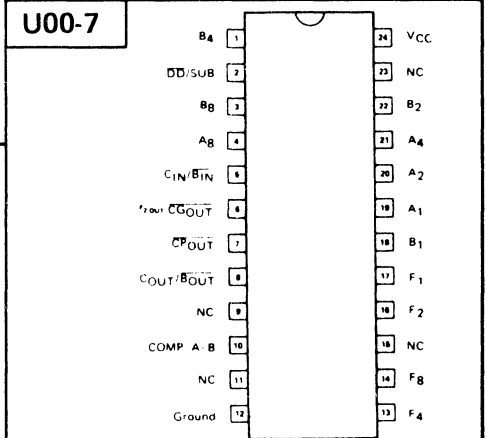
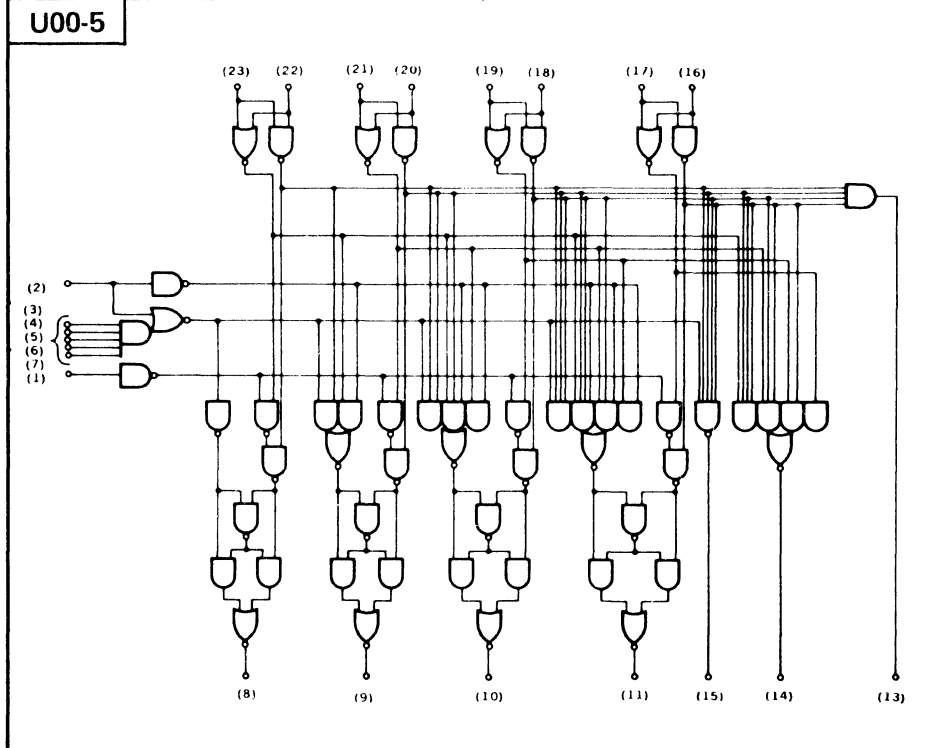
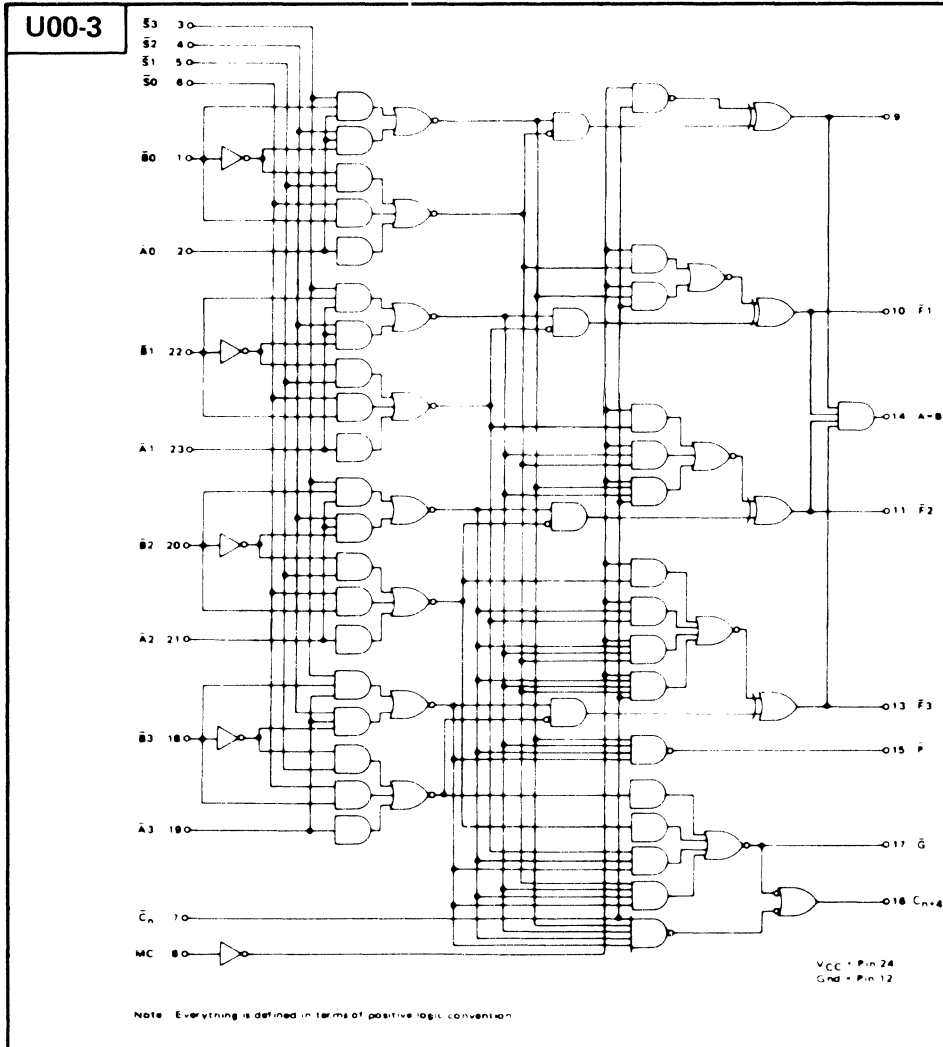
VDD = 24
 VSS = 12

92CS-24825R1

U00-2

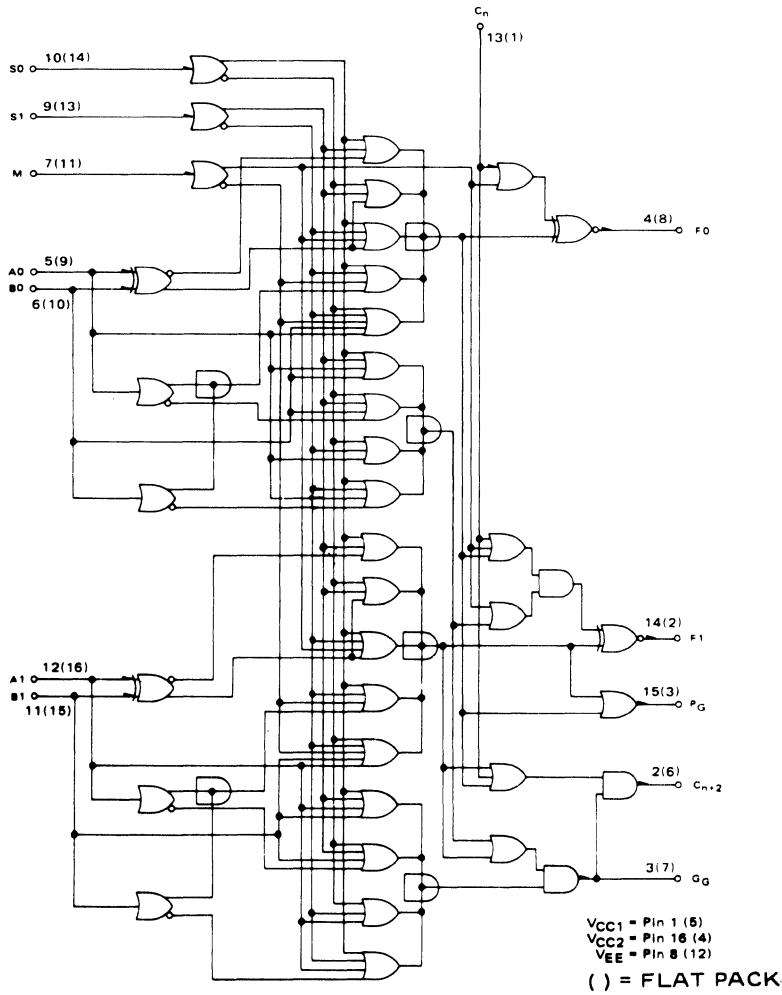


29. LOGIC/BLOCK DRAWINGS

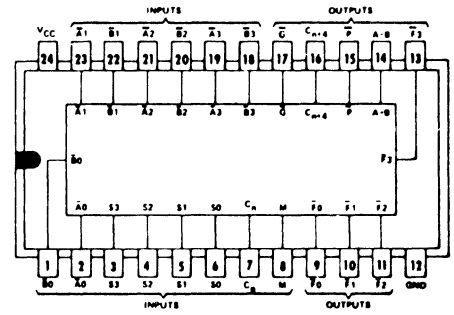


29. LOGIC/BLOCK DRAWINGS

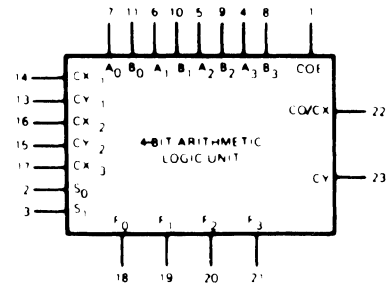
U00-9



U00-10

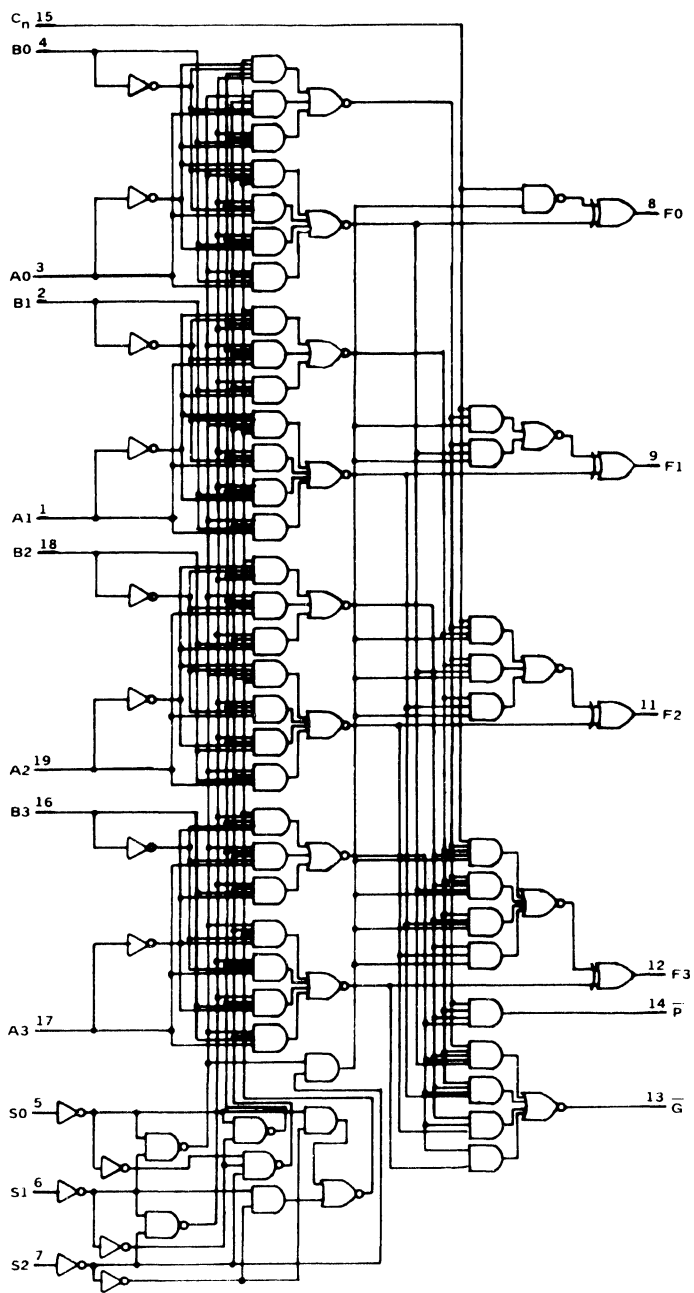


U00-13



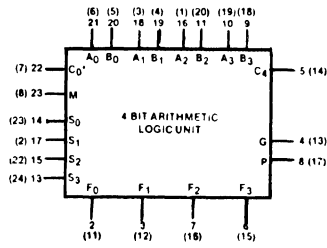
29. LOGIC/BLOCK DRAWINGS

U00-15



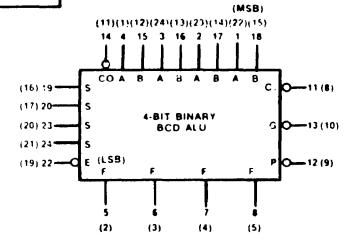
29. LOGIC/BLOCK DRAWINGS

U00-21



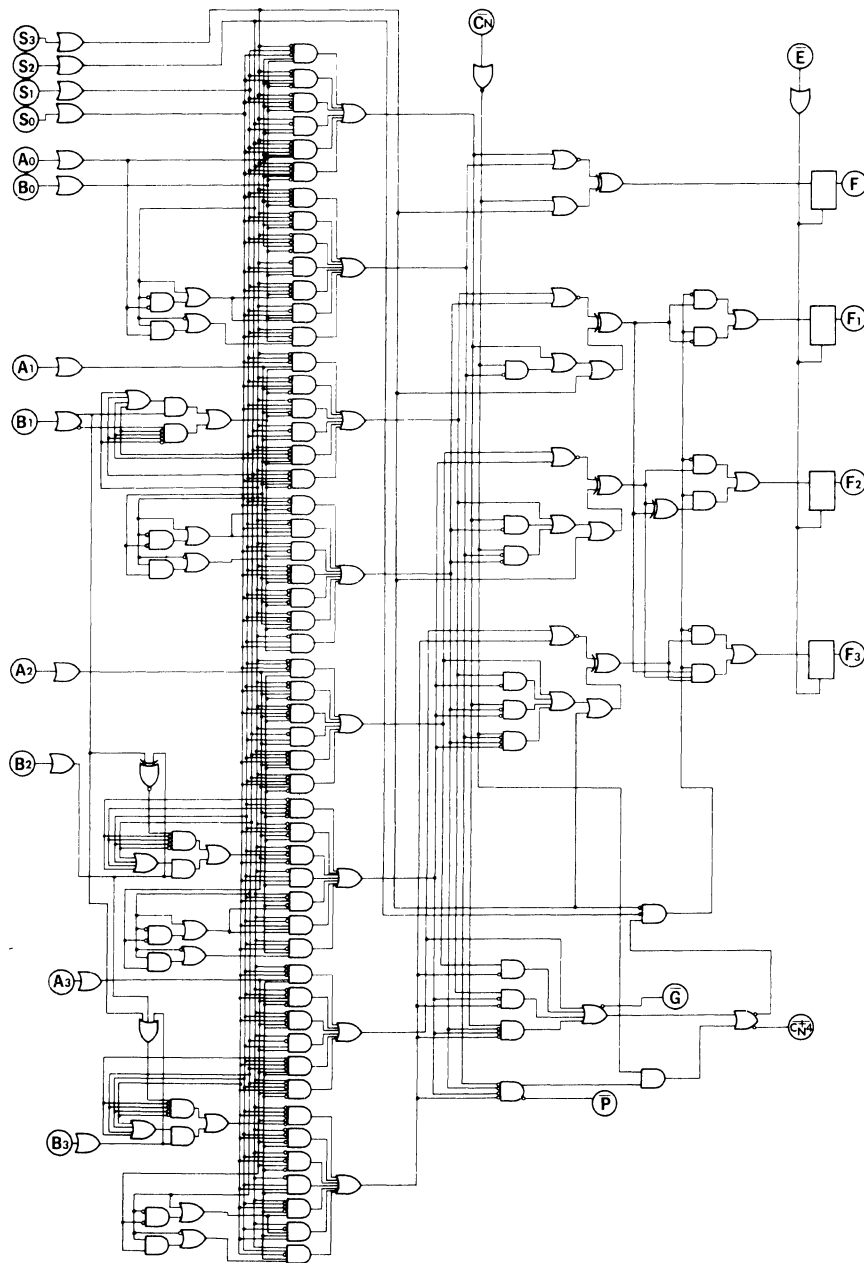
VCC1 = Pin 1 (10)
 VCC2 = Pin 24 (9)
 VEE = Pin 12 (21)
 () = Flatpak

U00-22



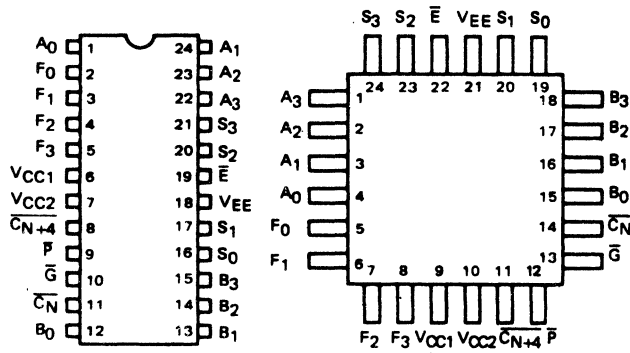
VCC = Pin 9 (6)
 VCCA = Pin 10 (7)
 VEE = Pin 21 (18)
 J = DIP

U00-25



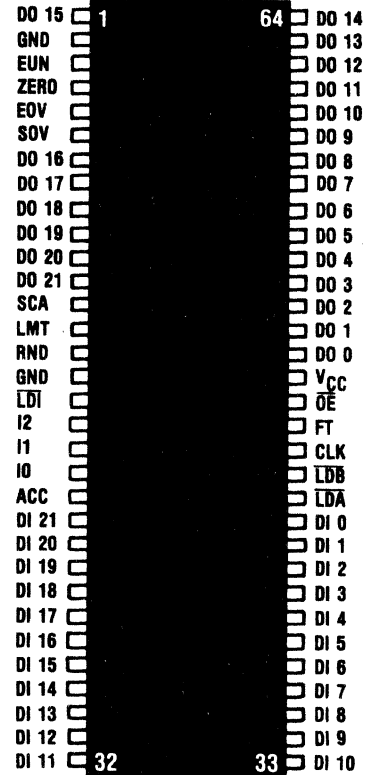
29. LOGIC/BLOCK DRAWINGS

U00-26



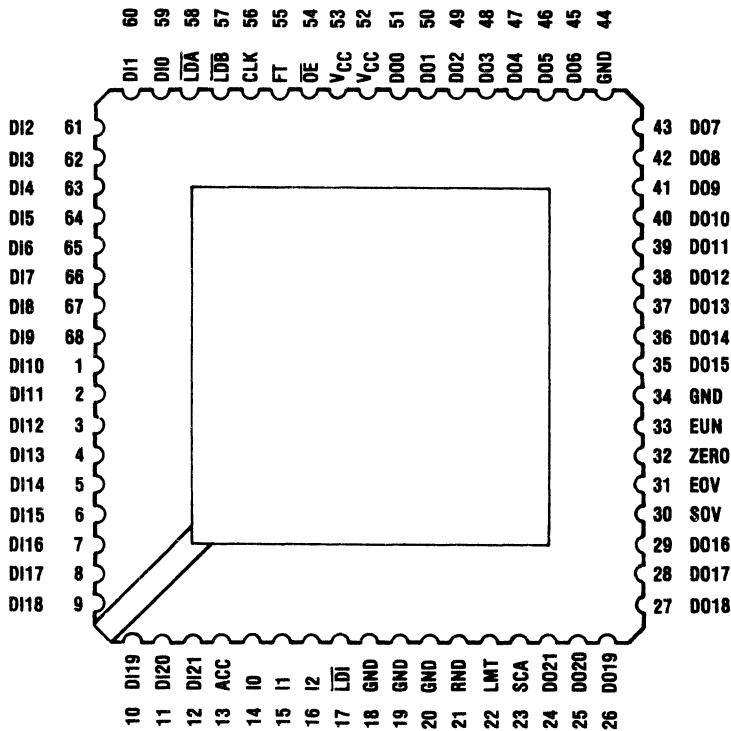
U00-28

Floating Point Arithmetic Unit



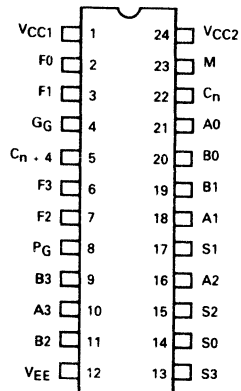
U00-29

Floating Point Arithmetic Unit

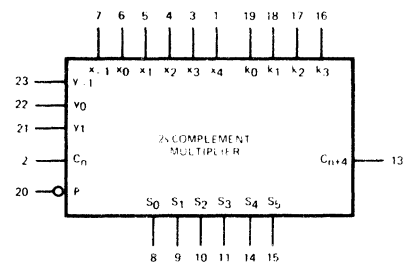


U00-30

4-Bit Arithmetic Logic Unit/Function Generator



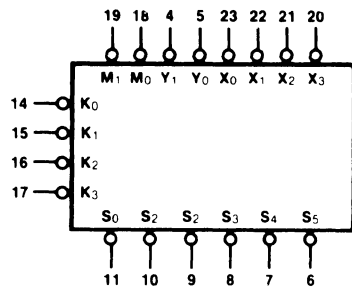
X00-1



VCC = Pin 24
GND = Pin 12

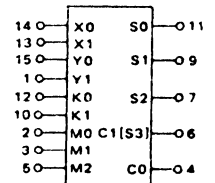
29. LOGIC/BLOCK DRAWINGS

X00-2



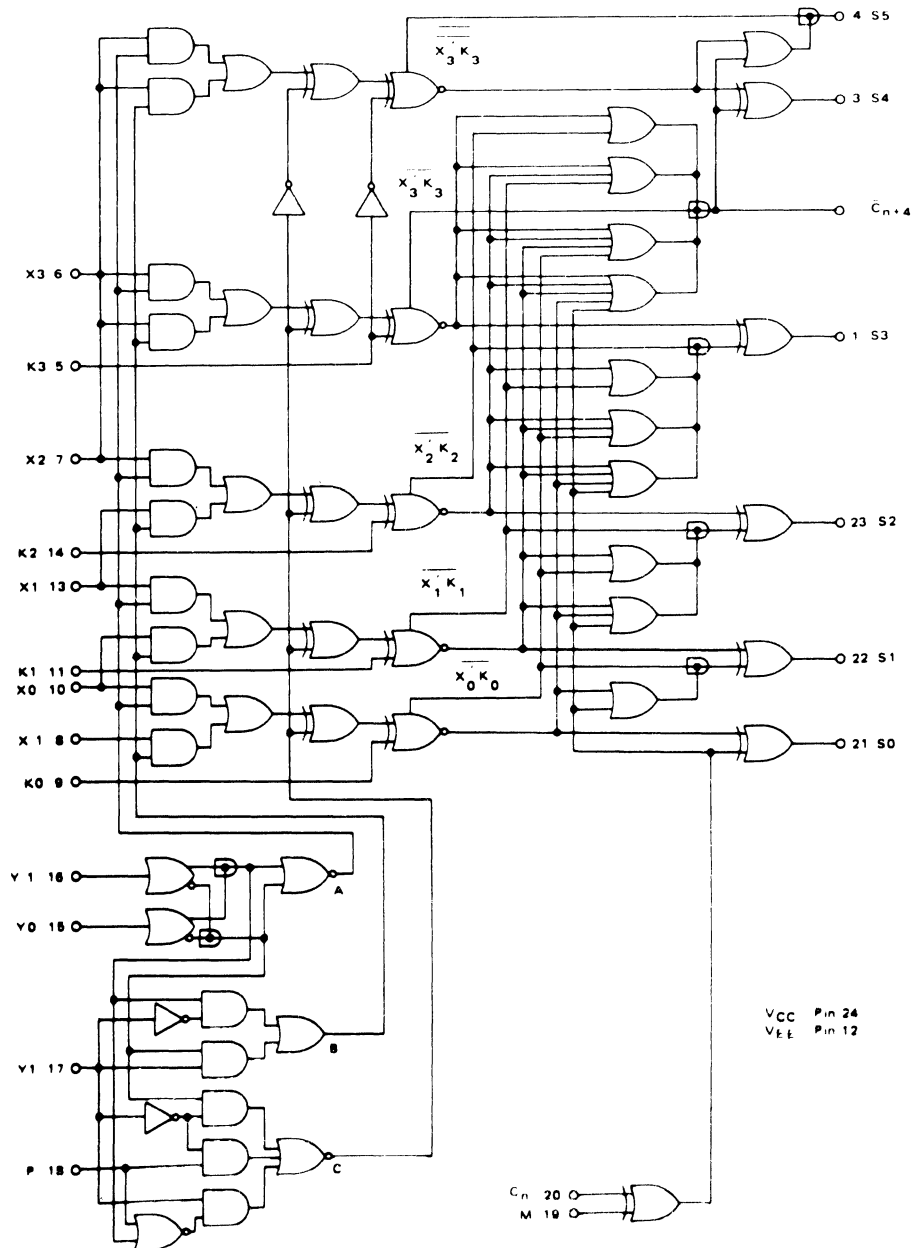
VCC = Pin 24
 GND = Pin 12
 NC = Pin 1, 2, 3, 13

X00-3



VDD = Pin 16
 VSS = Pin 8

X00-4



VCC Pin 24
 VEE Pin 12

29. LOGIC/BLOCK DRAWINGS

X00-5

X00-6

X00-10

ACTIVE HIGH

VCC = Pin 24
GND = Pin 12

X00-11

ACTIVE HIGH

VCC = PIN 24
GND = PIN 12

X00-12

ACTIVE HIGH

X00-13

X00-14

X00-14a: Omit Latch Circuit Within Dashed Lines. (RND Input Connects Directly to Multiplier Array)

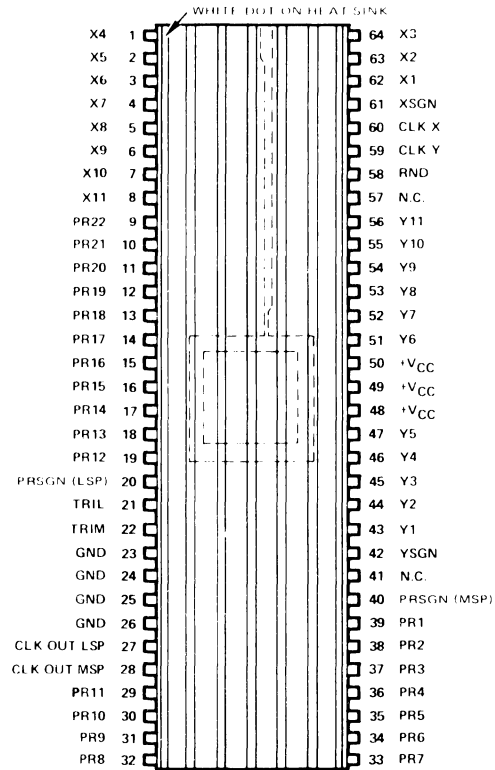
29. LOGIC/BLOCK DRAWINGS

X00-15

Pin Out

1	GND	33	N.C.
2	GND	34	X11
3	GND	35	10
4	SGN MSP	36	09
5	PR01	37	08
6	02	38	07
7	03	39	06
8	04	40	05
9	05	41	04
10	06	42	03
11	07	43	02
12	08	44	01
13	09	45	XSGN
14	10	46	CLKX
15	11	47	CLKY
16	CLK MSP	48	RND
17	CLK LSP	49	Y11
18	TRIM	50	10
19	TRIL	51	09
20	SGN LSP	52	08
21	PR12	53	07
22	13	54	06
23	14	55	+V _{CC}
24	15	56	+V _{CC}
25	16	57	+V _{CC}
26	17	58	Y05
27	18	59	04
28	19	60	03
29	20	61	02
30	21	62	01
31	22	63	YSGN
32	N.C.	64	GND

X00-15a
(FLAT PACK)

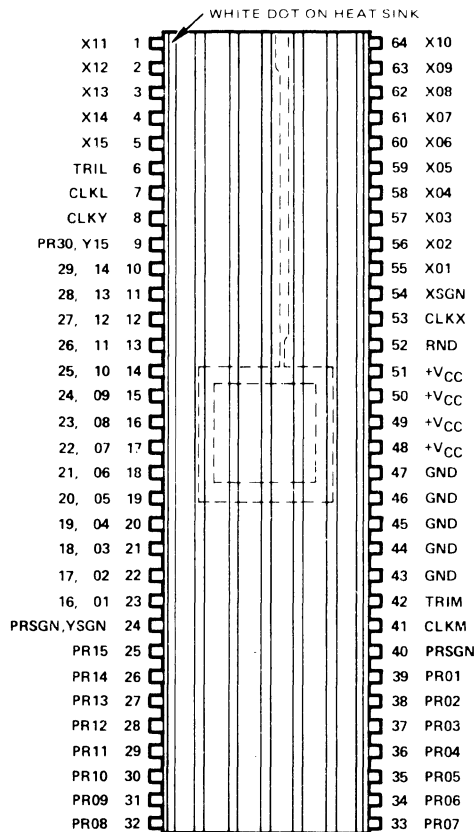


X00-16

Pin Out

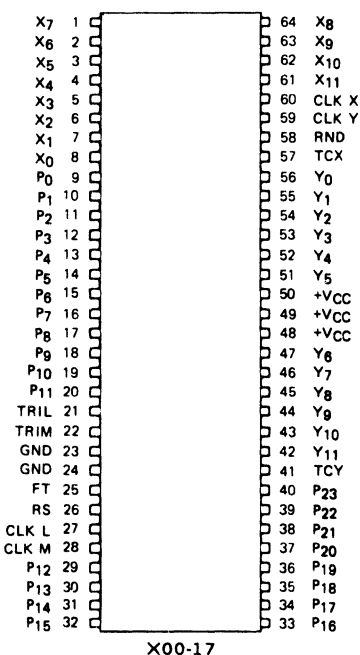
1	PRSGN	33	CLKY
2	PR01	34	CLKL
3	02	35	TRIL
4	03	36	X15
5	04	37	X14
6	05	38	13
7	06	39	12
8	07	40	11
9	08	41	10
10	09	42	09
11	10	43	08
12	11	44	07
13	12	45	06
14	13	46	05
15	14	47	04
16	15	48	03
17	PRSGN, YSGN	49	02
18	PR16, Y01	50	01
19	17, 02	51	XSGN
20	18, 03	52	CLKX
21	19, 04	53	RND
22	20, 05	54	+V _{CC}
23	21, 06	55	GND
24	22, 07	56	GND
25	23, 08	57	+V _{CC}
26	24, 09	58	+V _{CC}
27	25, 10	59	GND
28	26, 11	60	GND
29	27, 12	61	GND
30	28, 13	62	+V _{CC}
31	29, 14	63	TRIM
32	PR30, Y15	64	CLKM

X00-16a
(FLATPACK)



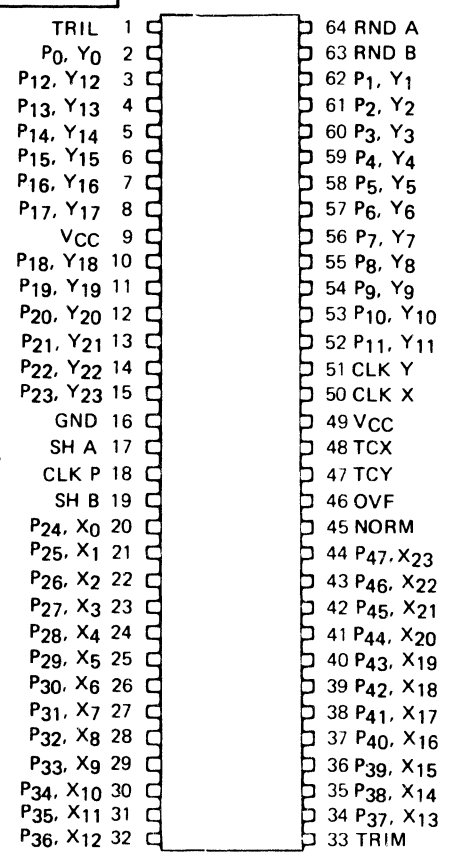
29. LOGIC/BLOCK DRAWINGS

X00-17



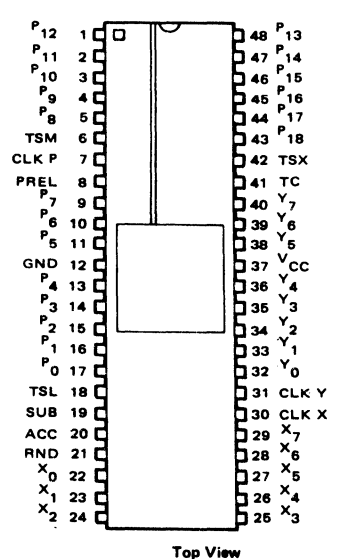
X00-17

X00-18



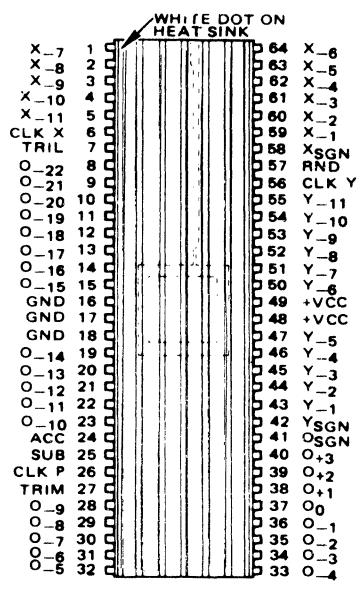
X00-17a

X00-19

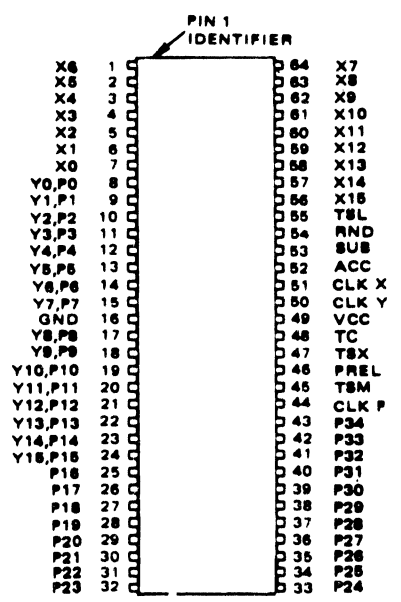


Top View

X00-20

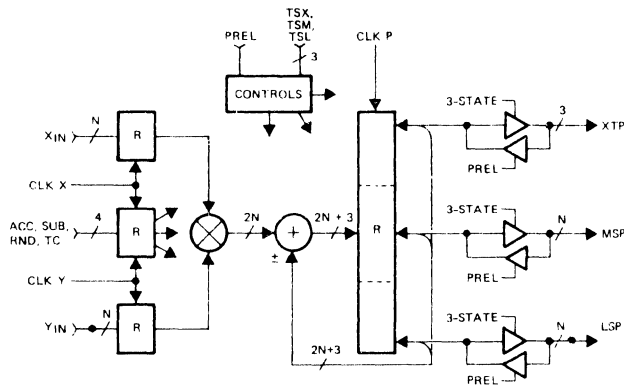


X00-21



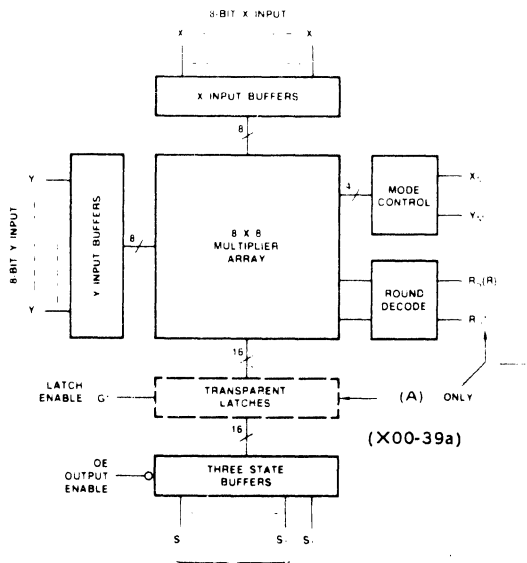
29. LOGIC/BLOCK DRAWINGS

X00-23



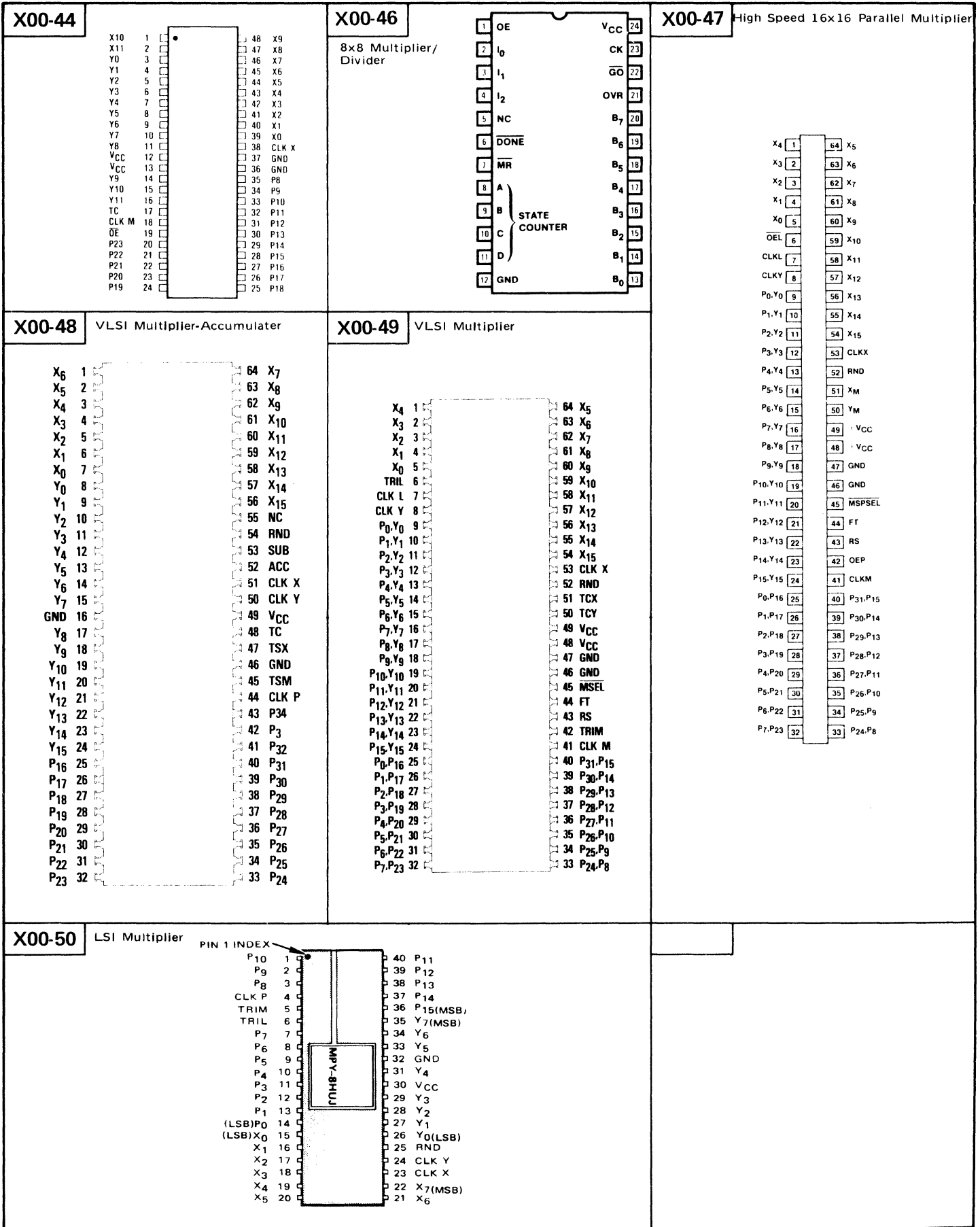
X4	1	64	X5
X3	2	63	X6
X2	3	62	X7
X1	4	61	X8
X0	5	60	X9
ACC	6	59	X10
SUB	7	58	X11
RND	8	57	CLK X
TSL	9	56	CLK Y
P0	10	55	Y0
P1	11	54	Y1
P2	12	53	Y2
P3	13	52	Y3
P4	14	51	Y4
P5	15	50	Y5
GND	16	49	VCC
P6	17	48	Y6
P7	18	47	Y7
P8	19	46	Y8
P9	20	45	Y9
P10	21	44	Y10
P11	22	43	Y11
CLK P	23	42	TC
PREL	24	41	TSX
TSM	25	40	P26
P12	26	39	P25
P13	27	38	P24
P14	28	37	P23
P15	29	36	P22
P16	30	35	P21
P17	31	34	P20
P18	32	33	P19

X00-39



X0	1	40	XM
X1	2	39	S0
X2	3	38	S1
X3	4	37	S2
X4	5	36	S3
X5	6	35	S4
X6	7	34	S5
X7	8	33	S6
(R)R5	9	32	S7
VCC	10	31	S8
(G)R0	11	30	GND
Y0	12	29	S9
Y1	13	28	S10
Y2	14	27	S11
Y3	15	26	S12
Y4	16	25	S13
Y5	17	24	S14
Y6	18	23	S15
Y7	19	22	S15
YM	20	21	OE

29. LOGIC/BLOCK DRAWINGS



30. OUTLINE DRAWINGS

NOTES

These outline drawings are intended as a guide for the user. They should not be used for construction purposes without first checking with the appropriate manufacturer.

These drawings are referenced in the Technical Sections of this D.A.T.A. BOOK in accordance with information supplied by the manufacturers.

The MO and TO drawings have been reproduced from JEDEC Registration Data Files with the permission of the National Electrical Manufacturer's Association — Electronic Industries Association. JEDEC designations are assigned only to outlines submitted by the JC-11 Committee on Mechanical Standardization. The procedure of assigning and announcing the JEDEC designation constitutes registration. JEDEC types which have letter 'S' suffixes indicate a device that is manufactured with leads shorter than specified in the registered data of the device, but not shorter than 12.7 mm (.5 inch).

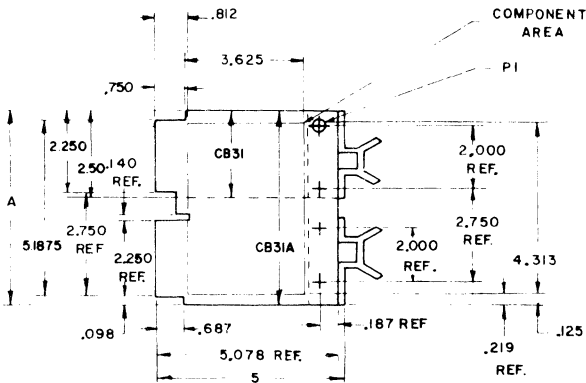
All dimensions are in inches except where noted.

OUTLINE DRAWINGS

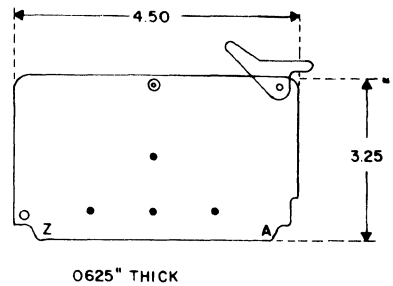
- CB: PRINTED CIRCUIT BOARD
- CH: CHIP PACKAGE
- CN: CAN
- DL: DUAL-IN-LINE PACKAGE
- FP: FLAT PACKAGE
- MD: MISCELLANEOUS DEVICES
- SL: SINGLE-IN-LINE PACKAGE
- TO: STANDARD JEDEC PACKAGE
- ZB: MULTIPLE PACKAGE CONFIGURATION & DRAWING REFERENCE INFORMATION

- : BASIC CONFIGURATION
- △: MO STANDARD JEDEC OUTLINE

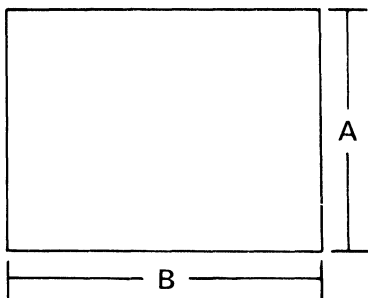
CB31



CB53

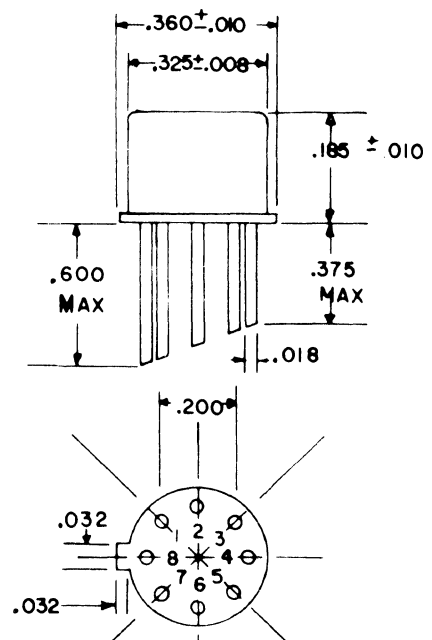


CH



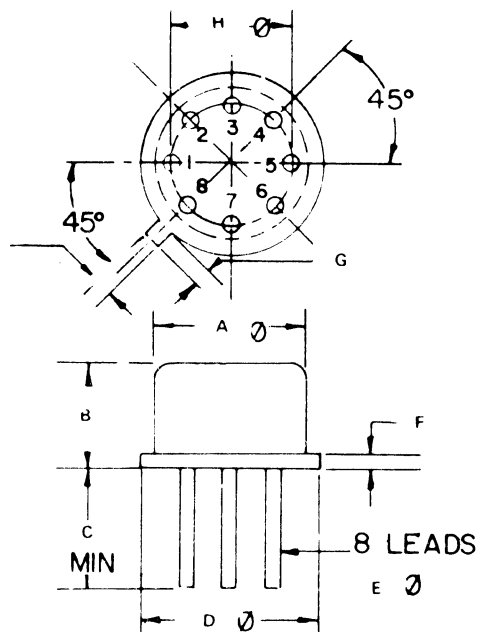
Suffix	A	B	No. of Pads
CH18	.064	.068	6
CH19	.067	.069	16
CH110	.083	.095	16
	.091	.103	
CH113	.150	.130	40
CH126	.066	.074	16
	.074	.082	
CH127	.072	.097	16
	.080	.105	
CH128	.069	.111	24
	.077	.119	
CH129	.094	.104	16
	.102	.112	
CH130	.091	.105	16
	.099	.113	
CH131	.122	.093	24
	.130	.101	
CH132	.055	.055	
	.033	.033	
CH133	.073	.089	20
CH134	5.1	5.6	28

CN2



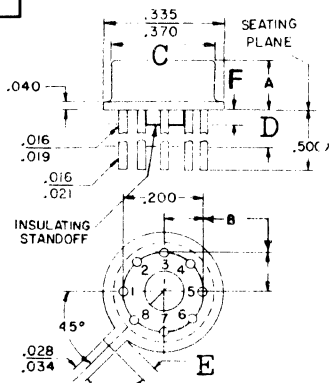
30. OUTLINE DRAWINGS

CN6



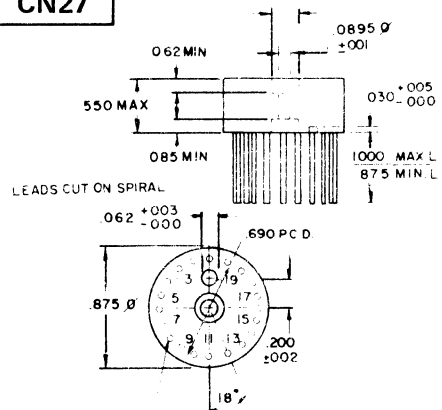
	A	B	C	D	E	F	G	H	S
CN6	.305 .335	.296 .310	1.500 MIN	.335 .370	.016 .019	.013 .016	.029 .040	.228 .232	.028 .034
CN6a	.305 .335	.165 .185	.500 MIN	.340 .370	.016 .019	.010 .080	.029 .042		.028 .034
CN6b	.290 .335	.190 MAX	.500	.290 .370	.016 .019	.008 .125	.029 MIN	.200	.028 .034
CN6c	.305 .335	.165 .185	.500 MIN	.335 .370	.016 .019	.009 .125	.029 .045	.190 .210	.028 .034
CN6d	.305 .335	.240 .259	.500	.335 .370	.016 .018	.009 .125	.029 .044	.200	.027 .033
CN6e	.305 .335	.165 .185	.500	.335 .370	.016 .019	.009 .025	.029 .045	.220 .240	.028 .034
CN6f	.318 .328	.165 .185	.500	.340 .370	.016 .021	.010 .040	.029 .033	.190 .210	.028 .034
CN6g	.305 .335	.165 .185	.500 MIN	.335 .370	.016 .019	.010 .040	.029 .045	.200 BSC	.028 .034

CN13

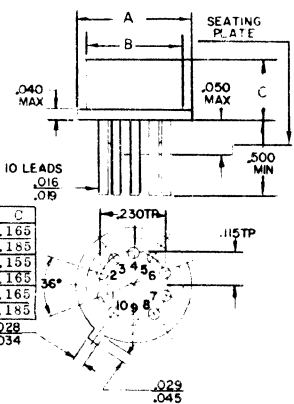


	A	B	C	D	E	F
CN13	.165 .185	.100	.305 .335	.250	.029 .045	.050
CN13a	.140 .160	.100	.305 .335	.250	.029 .045	.050
CN13b	.185 MAX	.105	.302 MAX		.034 MAX	.050
CN13c	.165 .185	.100	.305 .335		.029 .045	.040

CN27

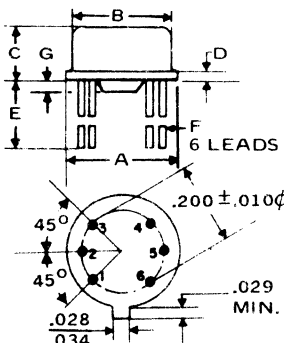


CN38



	A	B	C
CN-38	.335 .370	.305 .335	.165 .185
CN-38a	.305 .355	.302 .345	.155 .185
CN-38b	.350 .370	.315 .335	.165 .185

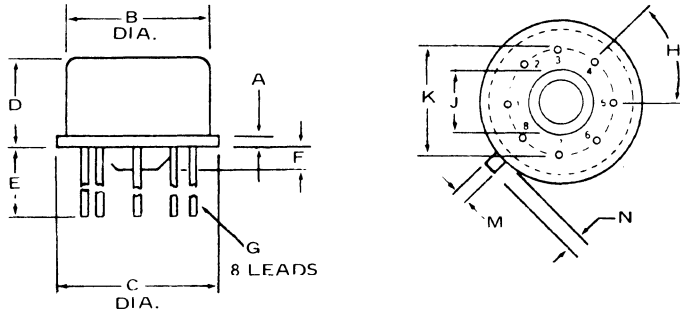
CN44



	A	B	C	D	E	F	G	NOTES
CN44	.290 .310	.290 .310	.160 MIN	.062 .125	1.50 MIN	.016 .019	NA	
CN44a	.325 .370	.305 .335	.165 MIN	.500	.016	NA		
CN44b	.360 MAX	.326 MAX	.165 MAX	.500 MIN	.017 DIA	.016	GLASS STAND OFF	

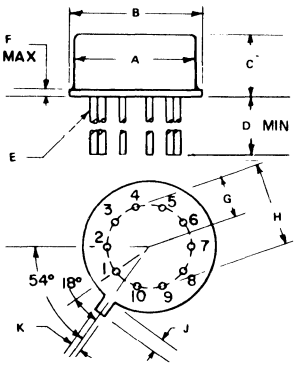
30. OUTLINE DRAWINGS

CN46



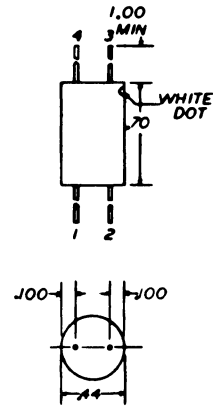
	A	B	C	D	E	F	G	H	J	K	M	N
CN46	.040	.305	.335	.165	.500	.050	.016	45°	.200	.028	.029	
		.335	.370	.185	MIN	MAX	.019			.034	.045	
CN46a	.094	.305	.335	.165	.500	.050	.016	45°	.200	.028	.029	
	.125	.335	.370	.185	MIN	MAX	.019			.034	.045	
CN46b	.020	.315	.355	.165	.500	.015	.016	45°	.180	.180	.028	.029
	.030	.325	.370	.185	.502	.045	.019		.160	.210	.034	.040

CN58

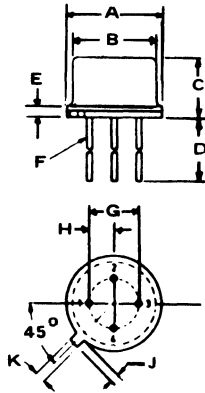


	A	B	C	D	E	F	G	H	J	K
CN58	.305	.335	.160	.500	.016	.040	.100	.200	.029	.028
	.333	.370	.180	MIN	.019	MAX			.045	.034
CN58a	.305	.340	.165	.500	.016	.010			.029	.028
	.335	.370	.185	MIN	.019	.080			.042	.034
CN58b	.334	.369	.184	.500	.018			.200	.039	.033
	MAX	MAX	MAX	MIN	MAX				MAX	MAX

CN67

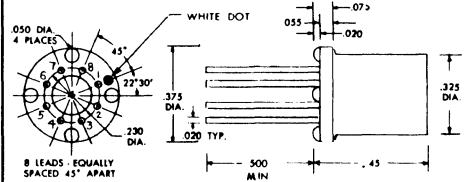


CN71

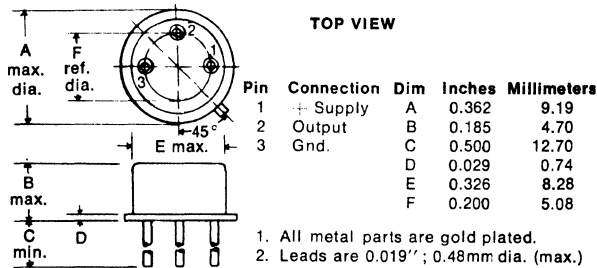


	A	B	C	D	E	F	G	H	J	K
CN71	.335	.303	.240	.500	.009	.016	.200	.100	.029	.027
	.370	.334	.259	MIN	.125	.015			.044	.033
CN71a	.340	.318	.165	.500	.010	.016	.190		.029	.028
	.370	.328	.185	.560	.040	.021	.210		.033	.034
CN71b	.209	.178	.170	.500	.030	.016	.100	.050	.028	.036
	.230	.195	.210	MIN	.019				.048	.046
CN71c	.228	.188	.208	.500		.018	.100		.046	.045
	MAX	MAX	MAX	MIN	MAX				MAX	MAX

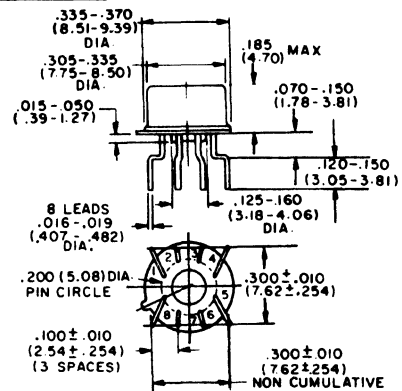
CN76



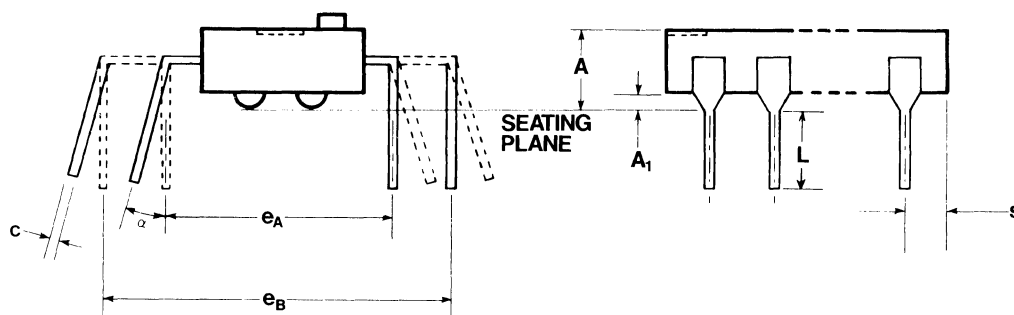
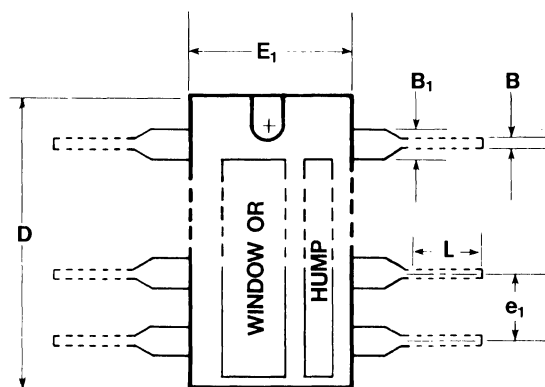
CN77



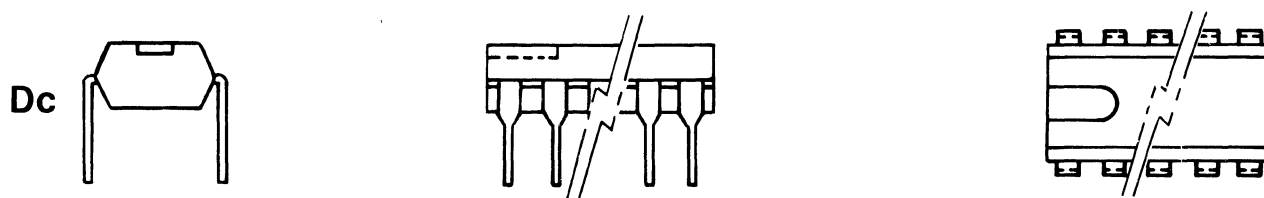
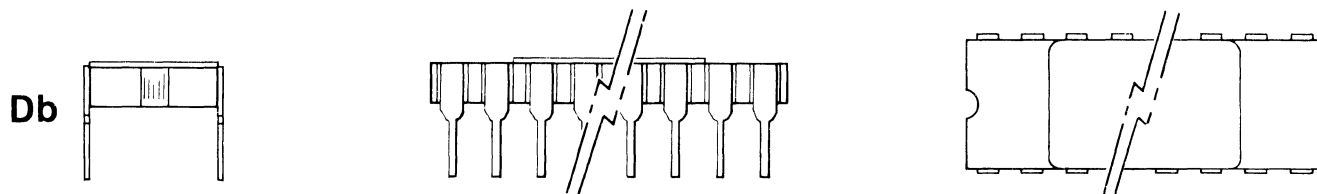
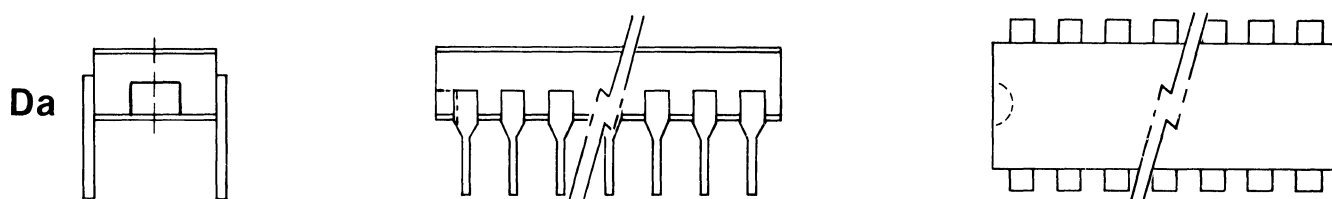
CN79



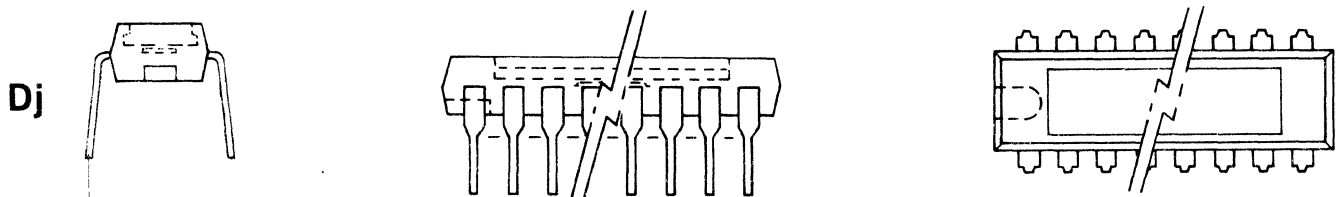
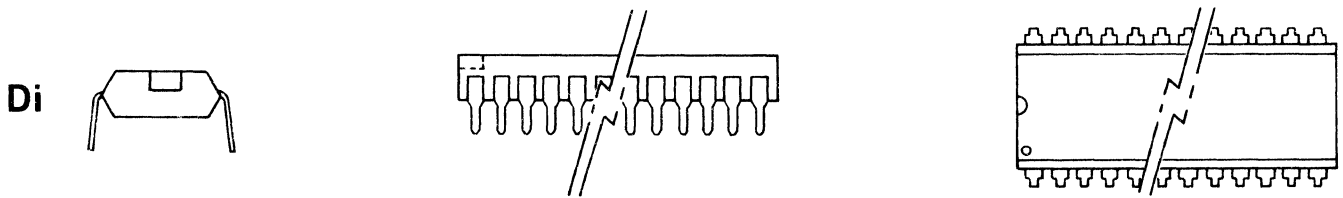
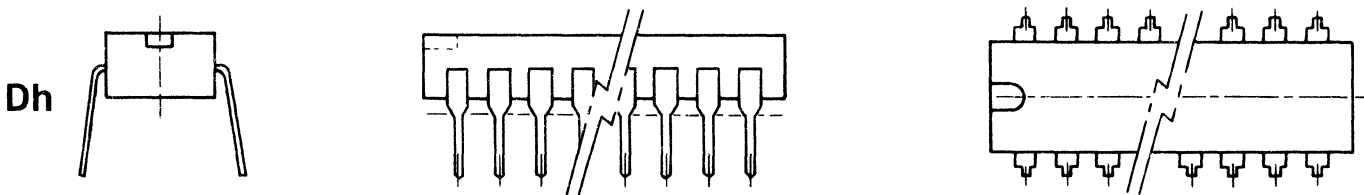
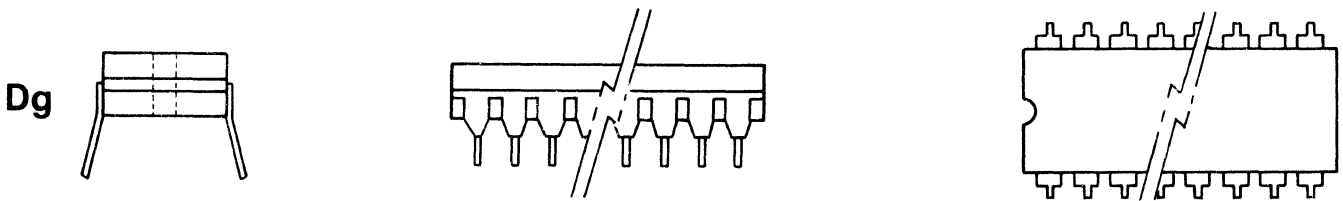
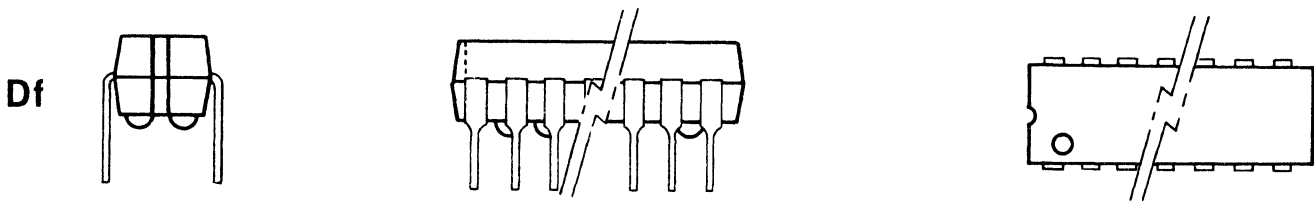
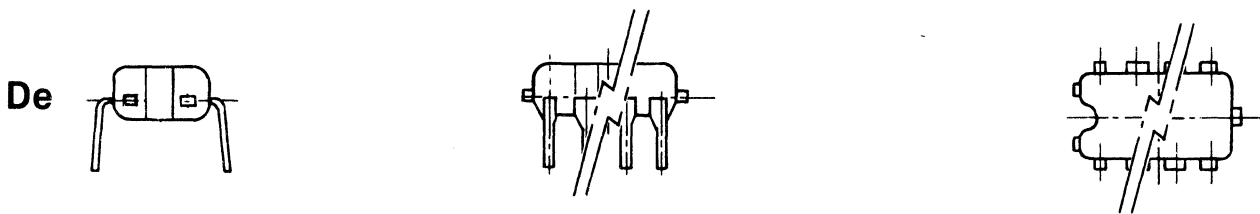
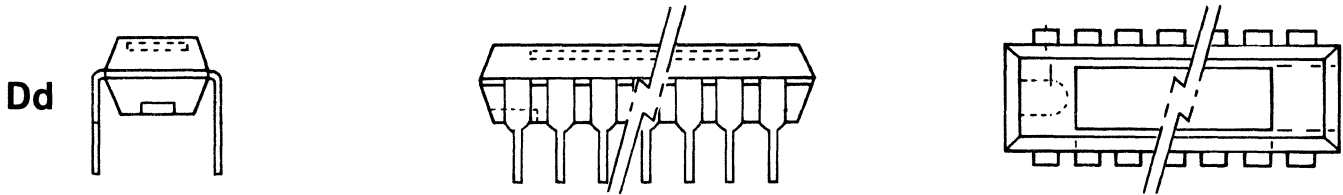
TYPICAL OUTLINE DRAWING DIMENSIONS



Specific Examples

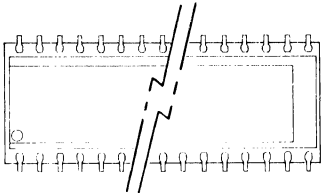
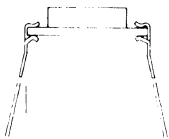


30. OUTLINE DRAWINGS

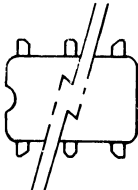
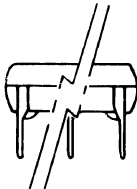
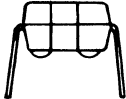


30. OUTLINE DRAWINGS

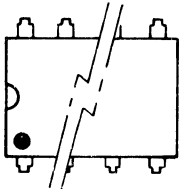
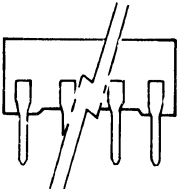
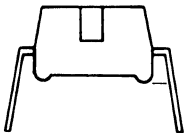
Dk



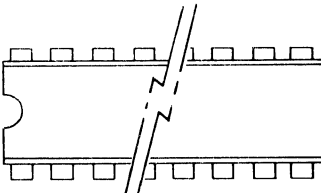
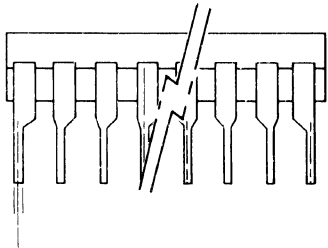
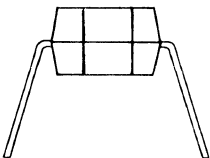
Dm



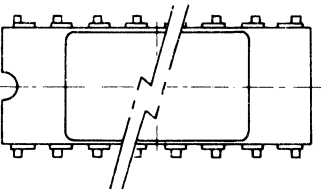
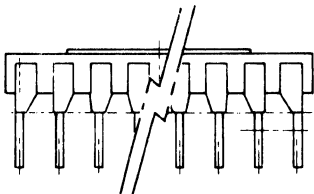
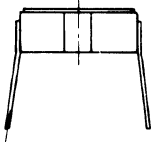
Dn



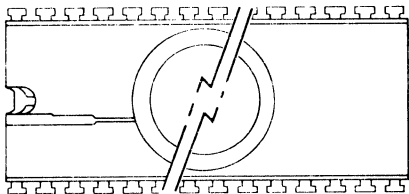
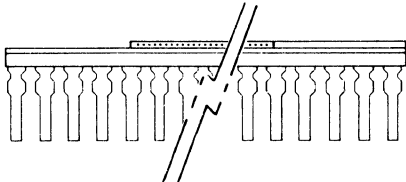
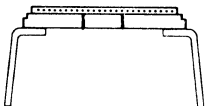
Dp



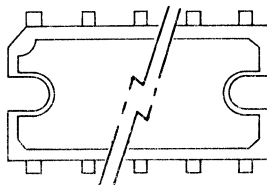
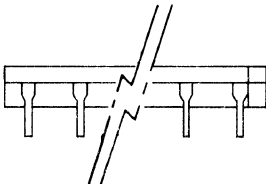
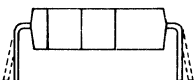
Dq



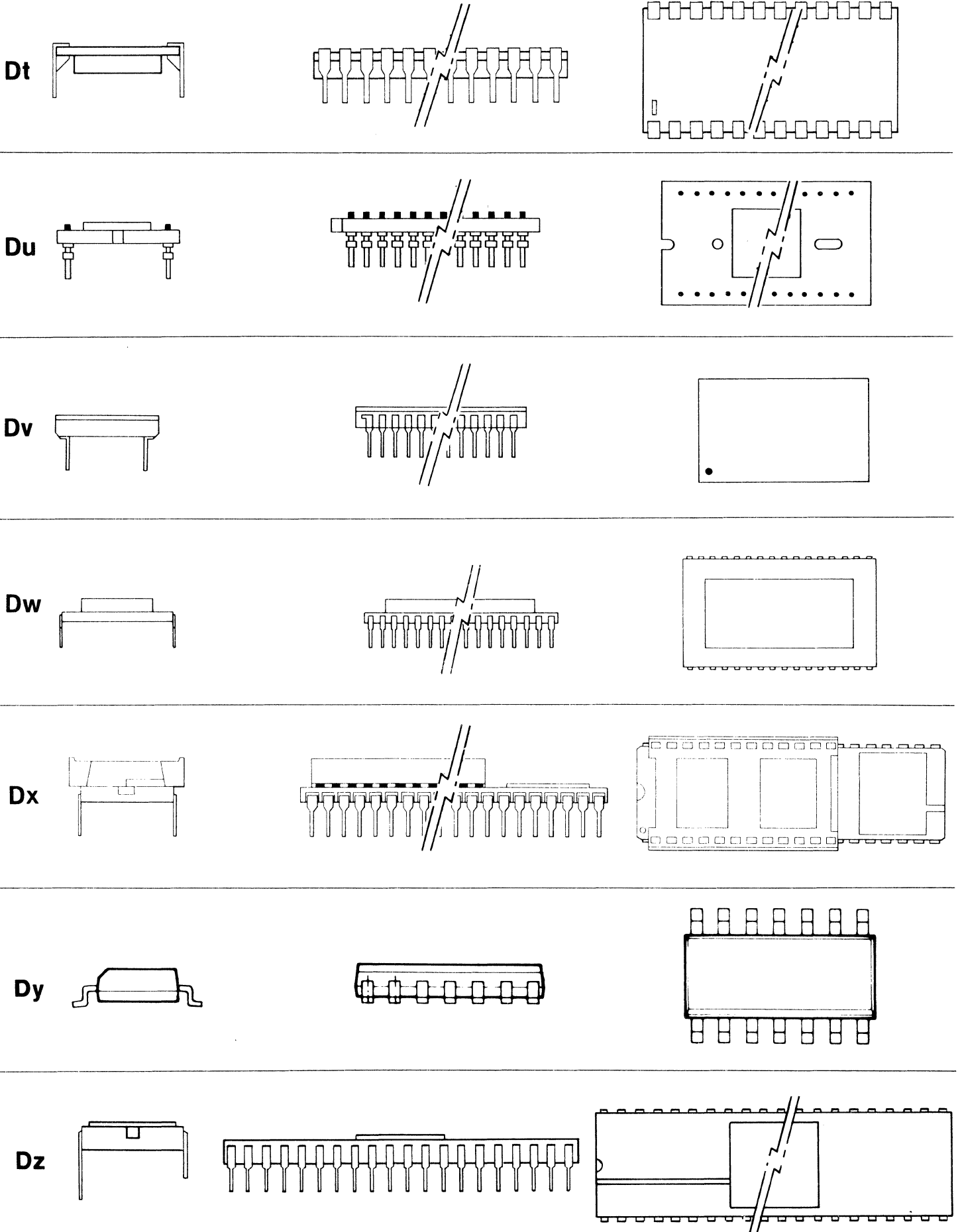
Dr



Ds

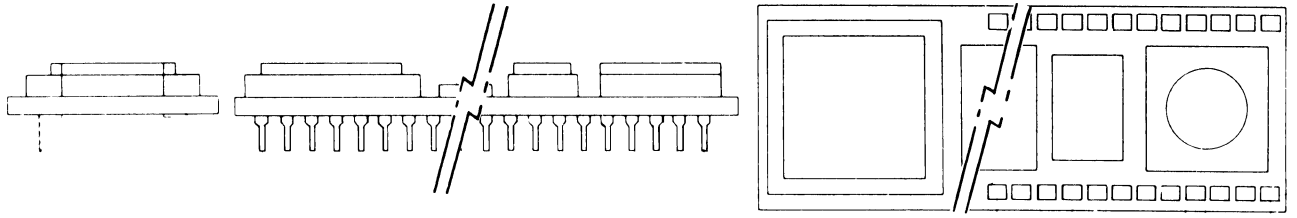


30. OUTLINE DRAWINGS

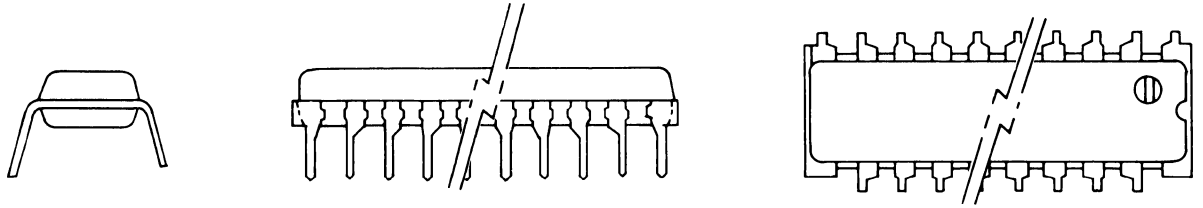


30. OUTLINE DRAWINGS

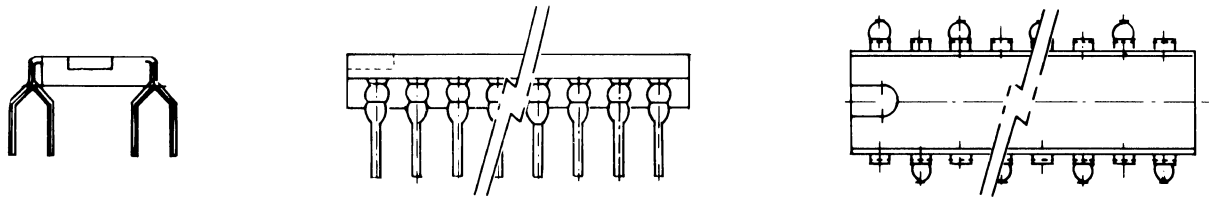
Daa



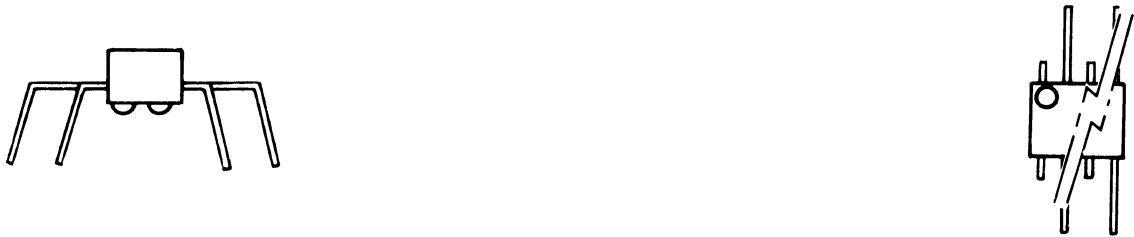
Dab



Qa



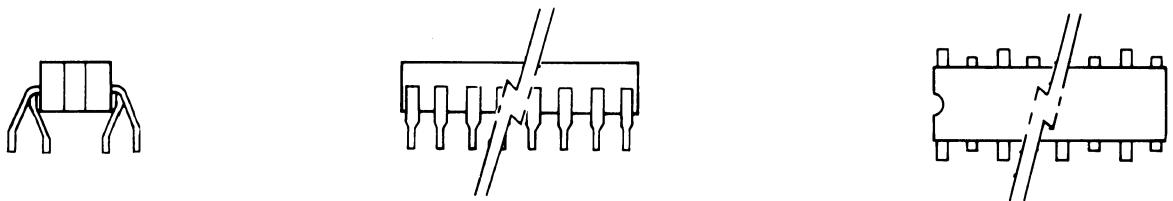
Qb



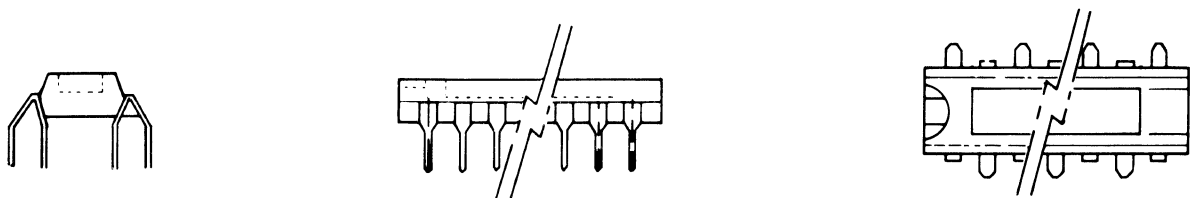
Qc



Qd

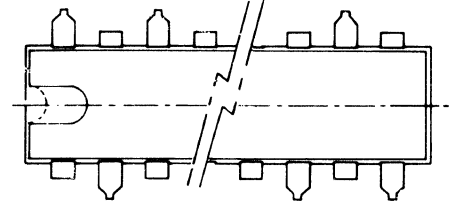
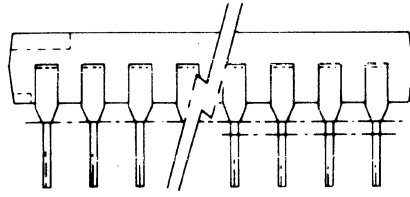
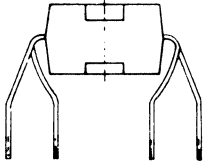


Qe

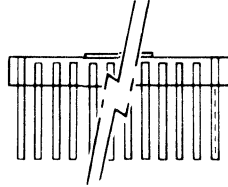
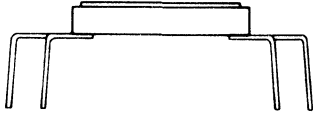


30. OUTLINE DRAWINGS

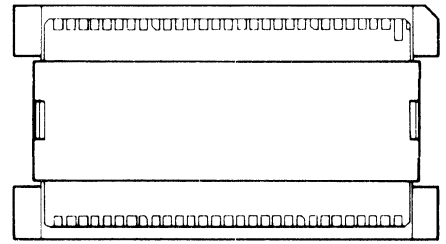
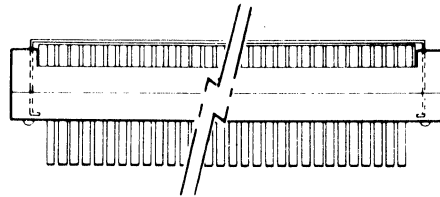
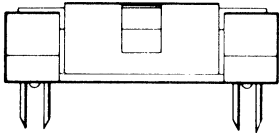
Qf



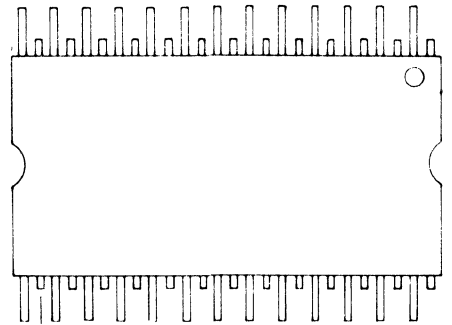
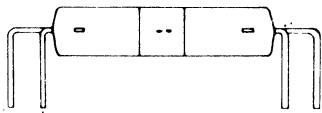
Qg



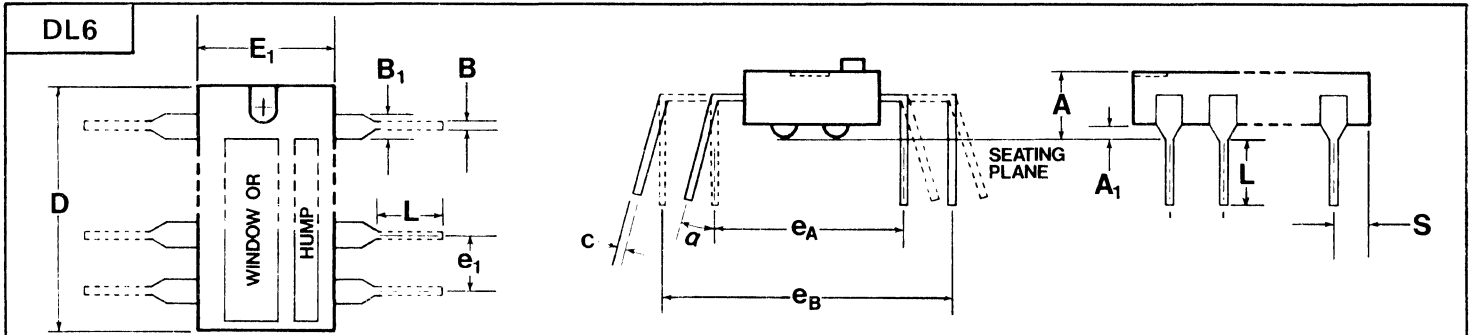
Qh



Qi



30. OUTLINE DRAWINGS



OUTLINE DRAWINGS SPECIFICATIONS TABLE

Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL6a		X	4.2 max	.50 min	.35 .55	1.65 max	.15 .35	8.1 8.5	6.4	2.54	7.4 7.8		3.2 3.8		1.6	Dc

DL8																
Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL8a	X		.137 max		.017			.374 max	.248	.100			.118 .129			Dp
DL8b	X		.128 .132	.020	.016 .020		.009 .011	.400 max	.245 .255	.100 typ	.300 .320		.125 min			Dc
DL8c	X		.128 .132	.020	.016 .020		.009 .011	.365 .375	.245 .252	.100 typ	.290 .310		.125 min			Dc
DL8d	X		.130 .160		.015 .020			.393 .416	.244 .260	.090 .110	.285 .295					Dc
DL8e	X		.188 max	.055	.019	.043	.010	.433 max	.250		.300		.110	5°	.065	Dp
DL8f	X		.200 max	.015 .060	.016 .020	.045 .065	.009 .011	.376 .384	.245 .271		.290 .320		.125 .165	5°		Dp
DL8g	X		.200 max	.020 min	.015 .023	.035 .065	.008 .014	.360 .390	.240 .260		.290 .310		.100 min	5°	.040 typ	Dp
DL8h	X		.157 max	.019 min	.009 .017	.059 max		.401 max					.122 .141	5°	.051	Dp
DL8i	X		.196 max	.019 min	.015 .023		.007 .015	.413 min	.255 max		.298 .301		.118 min	5°		Dp
DL8j	X		.190 max	.040 .060	.016 .020	.055 .065	.009 .011	.363 .393	.236 .256		.290 .310		.125 min	5°	.039 typ	Dp
DL8k	X		.145 .155	.020 min	.015 .021		.009 .015	.400 max	.245 .255		.300 .320		.125 min	5°	.030 .060	Dp
DL8m	X		.200 max	.020 min	.015 .021	.070 max		.400 max	.240 .260		.300		.125 min	5°		Dp
DL8n		X	4.2 max	.50 min	.35 .55	1.5 max	.15 .35	10.0 10.4	6.2 6.6	2.54	7.4 7.8		3.2 3.8		1.2	Dc
DL8o	X		.135 .155	.020 nom	.015 .019	.030 .060	.008 .011	.370 .390	.240 .250	.100 typ	.290 .310		.115 .135	0° 10°	.045 max	Dm

(Continued)

30. OUTLINE DRAWINGS

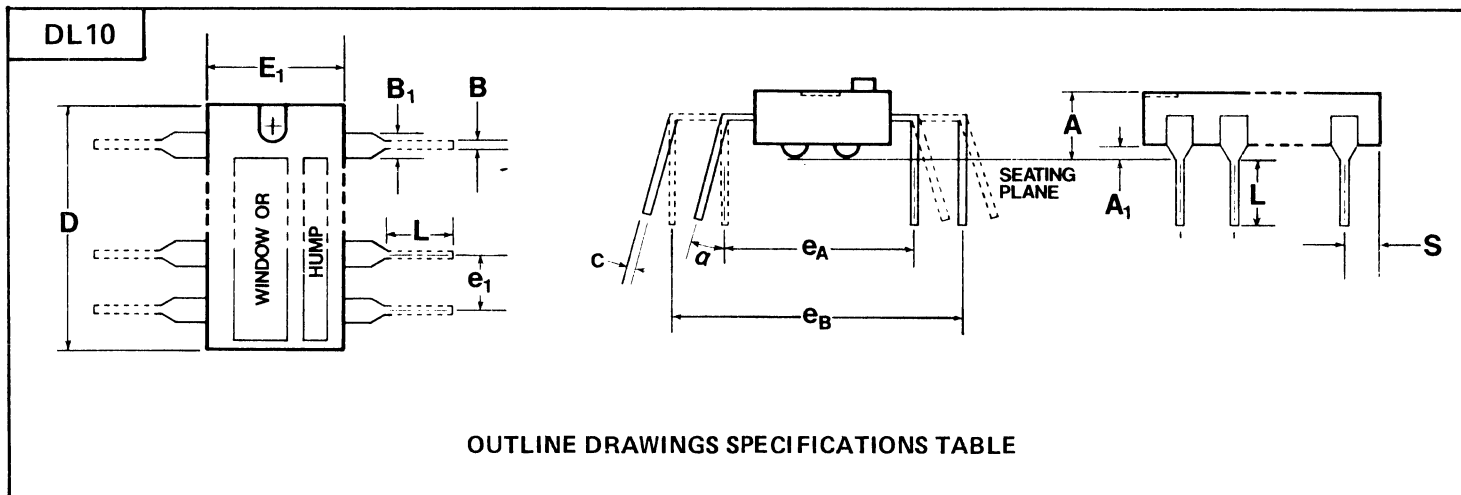
DL8

OUTLINE DRAWINGS SPECIFICATIONS TABLE (CONTINUED)

Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL8p	X		$\frac{.155}{.175}$	.020 nom	$\frac{.015}{.020}$	$\frac{.040}{.060}$	$\frac{.008}{.012}$	$\frac{.370}{.400}$	$\frac{.240}{.260}$	.100 typ	$\frac{.290}{.310}$		$\frac{.115}{.135}$	10°	$\frac{.030}{.050}$	Dm
DL8q	X		.200 max	.025	$\frac{.018}{.022}$		$\frac{.009}{.011}$	$\frac{.380}{.400}$	$\frac{.240}{.260}$	.100 typ	$\frac{.290}{.310}$		.125 min			Dm
DL8r	X		.200 max	$\frac{.015}{.060}$	$\frac{.014}{.023}$	$\frac{.045}{.065}$	$\frac{.008}{.015}$	$\frac{.375}{.390}$	$\frac{.245}{.271}$	.100 typ	$\frac{.290}{.320}$		$\frac{.125}{.200}$	$\frac{0^\circ}{15^\circ}$		Dm
DL8s	X		.220 max	.020 min	$\frac{.016}{.020}$	$\frac{.045}{.065}$	$\frac{.009}{.011}$	$\frac{.375}{.390}$	$\frac{.245}{.271}$	$\frac{.090}{.110}$	.325 max		.125 min		$\frac{.015}{.045}$	Dh
DL8t	X				.018 typ		.010	.380		.100 typ	.300		.125 min		.040 typ	Dp
DL8u ⁴		X	5.00 max	.700	.43	1.27	.27	19.20	6.40	2.54	7.62					Dc
DL8v		X	5.08 max	.51 min	$\frac{.381}{.584}$	1.78 max	$\frac{.203}{.356}$	$\frac{9.0}{10.2}$	$\frac{6.22}{7.11}$	2.54 typ	$\frac{7.36}{7.88}$		3.3 min	$\frac{0^\circ}{15^\circ}$	$\frac{.38}{1.65}$	Dp
DL8w		X	5.08 max	$\frac{.506}{1.78}$	$\frac{.406}{.508}$	$\frac{1.40}{1.65}$	$\frac{.203}{.305}$	10.16 max	7.39 max	$\frac{2.29}{2.79}$	$\frac{7.37}{8.13}$		3.18 min		2.54 max	Dp
DL8x ⁶		X	5.08 max	$\frac{.38}{1.52}$	$\frac{.36}{.58}$	$\frac{.76}{1.78}$	$\frac{.20}{.38}$	9.91 max	$\frac{5.59}{7.87}$	2.54	$\frac{7.37}{8.13}$		$\frac{3.18}{5.08}$	$\frac{0^\circ}{15^\circ}$	1.14 max	Dh
DL8y		X	5.08 max	$\frac{.38}{1.52}$	$\frac{.36}{.58}$	$\frac{.76}{1.78}$	$\frac{.20}{.38}$	9.91 max	$\frac{5.59}{7.87}$	2.54	$\frac{7.37}{8.13}$		$\frac{3.18}{5.08}$	$\frac{0^\circ}{15^\circ}$	1.14 max	Dr
DL8z		X	5.08 max	$\frac{.38}{1.52}$	$\frac{.36}{.58}$	$\frac{.76}{1.78}$	$\frac{.20}{.38}$	9.91 max	$\frac{5.59}{7.87}$	2.54	$\frac{7.37}{8.13}$		$\frac{3.18}{5.08}$	$\frac{0^\circ}{15^\circ}$	1.14 max	Da
DL8aa		X	3.30	.762	.508	1.52		$\frac{9.40}{9.90}$	6.25	2.54	7.62		3.81 min			Dh
DL8ab		X	5.08 max	$\frac{.38}{1.52}$	$\frac{.36}{.58}$	$\frac{.76}{1.78}$	$\frac{.20}{.38}$	13.14 max	$\frac{5.59}{7.87}$	$\frac{2.29}{2.79}$	$\frac{7.37}{8.13}$		$\frac{3.18}{5.08}$			Db
DL8ac		X	$\frac{3.68}{3.94}$	.508 min	$\frac{.381}{.533}$	1.14 typ	$\frac{.229}{.381}$	10.16 max	$\frac{6.22}{6.48}$	2.54 typ	$\frac{7.62}{8.13}$		3.18 min		$\frac{.381}{1.143}$	Dh
DL8ad		X	5.1 max	.51 min	.45		.30	9.9 max	7.1 max	2.54	8.38		3.3			Dc
DL8ae		X	$\frac{3.41}{4.7}$	$\frac{.36}{1.14}$	$\frac{.41}{.61}$	$\frac{1.47}{1.57}$	$\frac{.23}{.41}$	9.65 max	$\frac{6.22}{6.48}$	$\frac{2.52}{2.56}$	7.62		3.05 min	3° max	1.01 max	Dc
DL8af	X		.200 max	$\frac{.015}{.060}$	$\frac{.016}{.020}$	$\frac{.045}{.065}$	$\frac{.009}{.011}$	$\frac{.376}{.384}$	$\frac{.245}{.271}$	$\frac{.090}{.110}$	$\frac{.290}{.320}$		$\frac{.125}{.165}$	$\frac{0^\circ}{15^\circ}$		Dp
DL8ag		X	4.06	.76	$\frac{.38}{.54}$	1.52	$\frac{.20}{.35}$	$\frac{9.14}{10.16}$	6.35	2.54 typ	7.62		3.18	$\frac{0^\circ}{15^\circ}$		Dc
DL8ah		X	$\frac{3.17}{3.68}$	$\frac{.25}{.51}$	$\frac{.38}{.53}$	$\frac{1.12}{1.32}$	$\frac{.25}{.36}$	$\frac{9.27}{9.53}$	$\frac{6.22}{6.40}$	$\frac{2.29}{2.79}$	$\frac{.290}{.310}$		$\frac{.120}{.135}$		$\frac{.64}{1.14}$	Dh
DL8ai		X	$\frac{3.94}{4.45}$	$\frac{0.51}{0.76}$	$\frac{0.38}{0.51}$	$\frac{1.02}{1.52}$	$\frac{0.20}{0.30}$	$\frac{9.40}{10.16}$	$\frac{6.10}{6.60}$	2.54 BSC	7.62 BSC		$\frac{2.92}{3.43}$	10° max	$\frac{0.76}{1.27}$	Dd
DL8aj		X	4.2 max	.45 min		1.4 max	.29 max	10 max		2.54	8.25 max		$\frac{2.9}{3.4}$		1.15 max	Dc
DL8ak		X	5.08 max	.51 min	$\frac{.38}{.61}$		$\frac{.23}{.41}$	10 max	7.1 max	$\frac{2.49}{2.59}$	7.62		3.05 min		2.28	Dc
DL8al		X	4.2 max	0.51 min	$\frac{0.38}{0.53}$	1.73 max	0.32 max	10.0 max		2.54	7.62		$\frac{3.05}{3.43}$		1.15	Di
DL8am		X	4.25		.5	1.3	.25	9.4	6.5	2.54	7.62		3.2			Di

4. Spacing between pins 2-3 and 6-7 is 7.62 mm. 6. May also be available in pkgs DL8y and DL8z. Consult mfr.

30. OUTLINE DRAWINGS



OUTLINE DRAWINGS SPECIFICATIONS TABLE

Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL10a	X		.200 max				$\frac{.008}{.015}$	.450 max	$\frac{.240}{.280}$	.100 typ			.125 min			Dp

DL12

Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL12a ⁷		X	4.35 typ	.80 min	$\frac{.40}{.60}$	$\frac{.40}{.60}$	$\frac{.15}{.35}$	21.8 max	6.35 typ	$\frac{2.29}{2.79}$	7.62		$\frac{3.0}{3.6}$	$\frac{0^\circ}{15^\circ}$		Dc

7. Spacing between pins 3-4 and 9-10 is 10.16 mm.

DL14

Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL14a	X		.200 max				.023 max	.770 max	.260 max	.100	.310 max		.125 min		.160	Dh
DL14b	X		.200 max	.020 min	.020			.775	.234	.100 typ			.150			Dh
DL14c	X		.200 max	.020 min	.020			.785	.280	.100 typ			.125			Dh
DL14d	X		.197 max	.019 min	.020			.695	.256	.100 typ			.118			Dh
DL14e	X		$\frac{.130}{.160}$	$\frac{.015}{.035}$	$\frac{.015}{.021}$			$\frac{.745}{.755}$	$\frac{.245}{.250}$	.100 typ			$\frac{.120}{.130}$			Dh
DL14f	X		.140 max	.029 min	$\frac{.016}{.021}$			.696 max	.251 max	.100 typ			.141 min			Dh
DL14g	X		$\frac{.170}{.219}$	.020 min	$\frac{.016}{.020}$			$\frac{.755}{.785}$	$\frac{.265}{.291}$	.100 typ			$\frac{.100}{.160}$			Dh

(Continued)

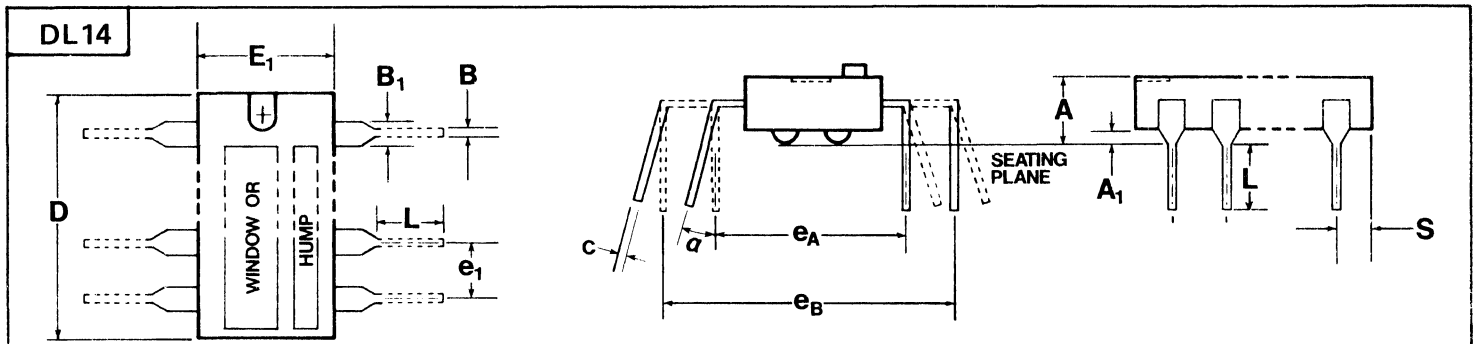
30. OUTLINE DRAWINGS

DL14

OUTLINE DRAWINGS SPECIFICATIONS TABLE (CONTINUED)

Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL14h	X		$\frac{.130}{.160}$	$\frac{.015}{.035}$	$\frac{.015}{.023}$			$\frac{.745}{.755}$	$\frac{.245}{.250}$	.100 typ			.125			Dh
DL14i	X			$\frac{.015}{.035}$	$\frac{.014}{.023}$			$\frac{.660}{.785}$	$\frac{.220}{.280}$	.100 typ			.100 min			Dh
DL14j	X		$\frac{.120}{.200}$	$\frac{.020}{.060}$	$\frac{.014}{.020}$			$\frac{.745}{.780}$	$\frac{.240}{.260}$	.100 typ			$\frac{.125}{.150}$			Dh
DL14k	X		.125 max	.035	$\frac{.023}{max}$	$\frac{.052}{max}$	.015 max	.755	$\frac{.245}{.250}$	.110	$\frac{.290}{.310}$		.125			Df
DL14m	X		.200 max	$\frac{.014}{.020}$	$\frac{.015}{min}$	$\frac{.055}{.065}$	.008	$\frac{.770}{max}$	$\frac{.240}{.310}$	$\frac{.090}{.110}$	.290 max		.125 min	$\frac{0^\circ}{15^\circ}$	$\frac{.065}{.085}$	Dc
DL14n	X		.175 max	$\frac{.020}{min}$	$\frac{.015}{.021}$	$\frac{.055}{.065}$	$\frac{.008}{.014}$	$\frac{.770}{max}$	$\frac{.240}{.260}$	$\frac{.090}{.110}$	.350		.125 min	$\frac{0^\circ}{15^\circ}$	$\frac{.065}{.085}$	Dc
DL14o	X		.185 max	$\frac{.035}{min}$	.019	$\frac{.055}{.065}$	.012	$\frac{.750}{max}$	.250	.100	.350		.125 min	$\frac{0^\circ}{15^\circ}$	$\frac{.065}{.085}$	Dc
DL14p	X		.185 max	$\frac{.035}{min}$	.019	$\frac{.055}{.065}$	.010	$\frac{.670}{max}$	.258		.350		.125 min	$\frac{0^\circ}{15^\circ}$	$\frac{.065}{.085}$	Dc
DL14q	X		.175 max	$\frac{.020}{min}$	.018	$\frac{.055}{.065}$	.010	$\frac{.760}{max}$	.260	.100	.350		.125 min	$\frac{0^\circ}{15^\circ}$	$\frac{.065}{.085}$	Dc
DL14r	X		.200 max	$\frac{.020}{min}$	$\frac{.015}{.021}$	$\frac{.055}{.065}$	$\frac{.008}{.014}$	$\frac{.770}{max}$	$\frac{.240}{.260}$	$\frac{.090}{.110}$	$\frac{.300}{.350}$		.125 min	$\frac{0^\circ}{15^\circ}$	$\frac{.065}{.085}$	Dc
DL14s	X		.200 max	$\frac{.020}{min}$	$\frac{.014}{.022}$	$\frac{.055}{.065}$	$\frac{.009}{.015}$	$\frac{.755}{max}$	$\frac{.240}{.255}$	.100	$\frac{.290}{.375}$		.125 min	$\frac{0^\circ}{15^\circ}$	$\frac{.065}{.085}$	Dc
DL14t	X		.175 max	$\frac{.020}{min}$	$\frac{.015}{.021}$	$\frac{.055}{.065}$	$\frac{.008}{.012}$	$\frac{.790}{max}$	$\frac{.260}{max}$	$\frac{.090}{.110}$	$\frac{.310}{.350}$		.125 min	$\frac{0^\circ}{15^\circ}$	$\frac{.065}{.085}$	Dc
DL14u	X		.162 max	$\frac{.019}{min}$	.018	$\frac{.055}{.065}$	.011	$\frac{.771}{max}$	$\frac{.240}{.263}$	.100	$\frac{.307}{.322}$		.125 min	$\frac{0^\circ}{15^\circ}$	$\frac{.065}{.085}$	Dc
DL14v	X		.200 max		$\frac{.015}{.023}$	$\frac{.055}{.065}$	$\frac{.008}{.015}$	$\frac{.750}{max}$	$\frac{.240}{.260}$	.100 typ	$\frac{.300}{.350}$		.125 min	$\frac{0^\circ}{15^\circ}$	$\frac{.065}{.085}$	Dc
DL14w	X		.200 max	$\frac{.020}{min}$	.017	$\frac{.055}{.065}$	.009	$\frac{.787}{max}$	.279 max	.100	.329		.125 min	$\frac{0^\circ}{15^\circ}$	$\frac{.065}{.085}$	Dc
DL14x	X			$\frac{.020}{.050}$	$\frac{.016}{.020}$	$\frac{.055}{.065}$	$\frac{.008}{.012}$	$\frac{.740}{.810}$	.290		.300		.125 min	$\frac{0^\circ}{15^\circ}$	$\frac{.065}{.085}$	Dc
DL14y	X		.149 max	$\frac{.019}{min}$	.017	$\frac{.055}{.065}$	.007	$\frac{.787}{max}$	$\frac{.255}{max}$	.100	.329		.125 min	$\frac{0^\circ}{15^\circ}$	$\frac{.065}{.085}$	Dc
DL14z	X		.175 max	$\frac{.025}{min}$		$\frac{.055}{.065}$	.010	$\frac{.765}{max}$	.248	.100	.300		.125 min	$\frac{0^\circ}{15^\circ}$	$\frac{.065}{.085}$	Dc
DL14aa	X		.200 max	$\frac{.020}{min}$	.020	$\frac{.055}{.065}$	.010	$\frac{.748}{max}$	.251		.300		.125 min	$\frac{0^\circ}{15^\circ}$	$\frac{.065}{.085}$	Dc
DL14ab	X		.200 max	$\frac{.020}{min}$	$\frac{.015}{.021}$	$\frac{.055}{.065}$	$\frac{.008}{.014}$	$\frac{.710}{.770}$	$\frac{.240}{.260}$	.100 typ	$\frac{.290}{.310}$		.125 min	$\frac{0^\circ}{15^\circ}$	$\frac{.065}{.085}$	Dc
DL14ac	X		.141 max	$\frac{.011}{min}$	$\frac{.016}{.023}$	$\frac{.055}{.065}$	$\frac{.009}{.014}$	$\frac{.798}{max}$		.100 typ	$\frac{.299}{.354}$		.125 min	$\frac{0^\circ}{15^\circ}$	$\frac{.065}{.085}$	Dc
DL14ad	X		.200	$\frac{.015}{min}$				$\frac{.750}{.785}$	$\frac{.240}{.280}$	$\frac{.090}{.110}$	$\frac{.290}{.310}$		.125			Dj
DL14ae	X		.200					$\frac{.660}{.780}$	$\frac{.220}{.280}$	$\frac{.090}{.110}$	.325 max		.100 min			Dj
DL14af	X		.200 max	$\frac{.020}{min}$				$\frac{.755}{.785}$	$\frac{.280}{max}$	$\frac{.090}{.110}$	$\frac{.290}{.310}$		.130 min			Dj
DL14ag	X		$\frac{.160}{.180}$	$\frac{.020}{.040}$				$\frac{.715}{.740}$	$\frac{.240}{.260}$	.100	$\frac{.290}{.310}$		$\frac{.115}{.135}$			Dj

30. OUTLINE DRAWINGS



OUTLINE DRAWINGS SPECIFICATIONS TABLE (CONTINUED)

Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL14ah	X		.160 max	.050 min				.695 .730	.250 .265	.090 .110	.300		.120 min			Dj
DL14ai	X		.201 max	.020 min				.787 max	.260 max	.100	.325 max		.118 min			Dj
DL14aj	X		.200 max	.019 .035				.763 max	.283	.100	.300		.102 min			Dj
DL14ak	X				.015 .023		.008 .015	.785 max	.280 max	.090 .110	.290 .310		.125			Dc
DL14am	X		.147 .206	.020 .040	.016 .020		.010 .012	.745 .785	.243 .263	.099 .101	.300		.115 .135	15° max		Dp
DL14an	X		.200 max	.020 .070	.016 .020		.008 .012	.785 max	.280 max	.090 .110	.285 .325		.130 min	15° max		Dp
DL14ao	X		.260 max	.032 min	.019		.008 .014	.764	.260	.100	.300		.100 min	15° max		Dp
DL14ap	X		.200 max	.019	.016 .020			.799 max	.299 max	.100			.130 .151	15° max		Dp
DL14aq	X		.165 .215	.020 .040	.015 .023		.008 .014	.755 .785	.280 max	.090 .110	.290 .315		.125 .165	15° max	.070 .100	Dp
DL14ar	X		.200 max	.031 min	.018 .019		.008 .014	.744 .783	.240 .279	.290 .309			.100 min	15° max		Dp
DL14as	X		.196 max	.027 min	.012 .020		.006 .014	.755	.251		.300		.100 min	15° max		Dp
DL14at	X		.155 .200	.020 .050	.014 .020		.008 .012	.715 .770	.240 .260	.100 typ	.300 typ		.115 .150	15° max	.052 .090	Dp
DL14au	X		.165		.015 .021			.759	.250	.100	.300		.125 min	15° max	.078 max	Dp
DL14av	X			.019 min	.017		.007 min	.590 min	.275 max	.100			.137			Dp
DL14aw	X		.175	.020	.015 .023		.008 .014	.785 max	.280 max	.090 .110	.310 max		.130 min		.100 max	Dp
DL14ax	X		.200 max	.020 min	.015 .021		.009 .012	.785 max	.280 max	.100	.300		.115			Dp
DL14ay	X		.170 .200	.030 .055	.015 .020		.008 .012	.740 .780	.240 .270	.090 .110	.290 .325		.115 .135		.070 .090	Dp
DL14az	X		.200 max	.020 .070	.016 .020		.008 .012	.785 max	.280 max	.090 .110	.290 .320		.125 min		.100 max	Dp
DL14ba	X		.140	.060	.016 .020		.008 .012	.700	.250	.100	.300		.130			Dp
DL14bb	X				.016 .023		.009 .014	.798 max		.100 typ	.299 typ		.118 min			Dp

(Continued)

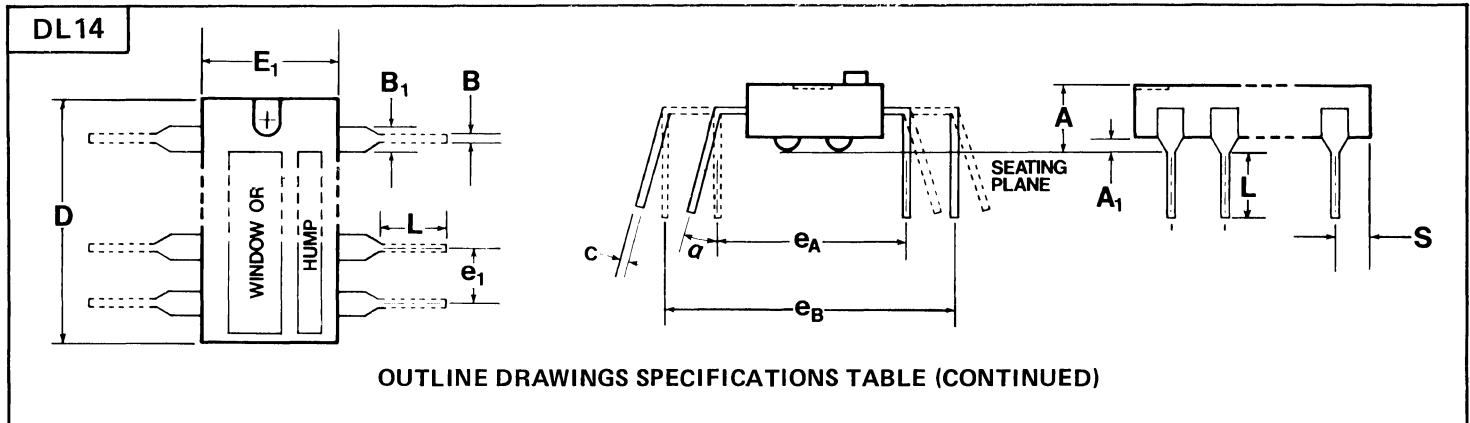
30. OUTLINE DRAWINGS

DL14																
OUTLINE DRAWINGS SPECIFICATIONS TABLE (CONTINUED)																
Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL14bc	X		.200 max	.015 min	.015 .020		.008 .012	.800 max	.245 .272	.100	.325 max		.100 .150			Dp
DL14bd	X		.196 max	.019 min	.018		.009	.787 max	.275 max	.100			.129			Dp
DL14be	X		.200 max	.015 .060	.016 .020		.009 .011	.750 .785	.245 .271	.100 typ	.308 .314		.125 .200		.098 max	Dp
DL14bf	X		.200 max	.015 min	.016 .020		.009 .011	.750 .785	.245 .271	.090 .110	.290 .310		.100 .165		.065 .095	Dp
DL14bg	X		.208 max	.015 min	.015 .022		.009	.800 max		.100	.324 max		.125 .165		.100 max	Dp
DL14bh	X			.020 .040	.015 .023		.008 .014	.755 .785	.302 max	.090 .110	.290 .320		.125 .165		.070 .098	Dp
DL14bi	X		.200 max	.020	.015 .019		.010	.725 max	.320 max	.090 .110	.320 max		.105 .145		.010	Dh
DL14bj	X		.140 .200	.020 .080	.015 .023	.030 .070	.008 .011	.660 .785	.290 .310	.090 .110	.290 .310		.100 min		.008 .011	Dh
DL14bk	X		.160 max	.025	.018 .022	.045 .065	.009 .011	.740 .760	.290 .310	.100 typ	.290 .310		.125 min		.009 .011	Dh
DL14bm	X		.197 max	.020 min	.016 .024			.697 max	.256 max	.090 .110	.288 .312		.118 min			Dp
DL14bn	X		.172 max	.020 min	.015 .021		.060 .072	.756 .780	.234 .254	.100 typ	.290 .310		.118 min			Dp
DL14bo ¹		X	.508 max	.38 1.52	.36 .58	.76 1.78	.20 .38	20.22 max	5.59 7.87	2.54	7.37 8.13		3.18 5.08	0° 15°	2.49 max	Dh
DL14bp		X	.508 max	.38 1.52	.36 .58	.76 1.78	.20 .38	20.22 max	5.59 7.87	2.54	7.37 8.13		3.18 5.08	0° 15°	2.49 max	Dr
DL14bq		X	.508 max	.38 1.52	.36 .58	.76 1.78	.20 .38	20.22 max	5.59 7.87	2.54	7.37 8.13		3.18 5.08		2.49 max	Da
DL14br	X		.130 .160	.015 .035	.015 .021	.044 .052	.010 .015	.745 .755	.245 .252	.090 .110	.290 .310		.120 .135		.065 .085	Dh
DL14bs	X		.174	.031	.019	.031	.009	.748	.251	.100	.299		.110		.060 .090	Dh
DL14bt	X		.145 .155	.020 min	.015 .021		.009 .015	.770 max	.245 .255	.100	.300 .320		.125 min		.080	Dc
DL14bu	X		.145 .155	.020	.018 .022		.009 .011	.745 .755	.245 .255	.090 .110	.290 .300		.125 min		.086	Dc
DL14bv	X		.185 max	.020 min	.015 .020		.009	.767 max		.100	.324 max		.120 .153			Dc
DL14bw	X		.161 .183	.030 .046	.012 .027		.007 .013	.763 max	.256	.100	.300		.125 min		.074	Dc
DL14bx	X		.130 .160	.015 .035	.015 .021		.008 .012	.760 .780	.245 .255	.090 .110			.135 .165		.070 .095	Dc
DL14by	X			.019 min	.017		.007 min	.787 max	.275 max	.100			.137			Dp
DL14bz	X		.196 max	.019 min				.787 max	.275 max	.090			.149			Dp
DL14ca	X				.015 .023			.750 max	.200 .240	.100 typ						Dp

1. May also be available in pkgs. DL14bp and DL14bq. Consult mfr.

Continued

30. OUTLINE DRAWINGS



Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL14cb	X		.220 max	.020 min			.010 nom	.785 max		.100 nom	.300 nom		.090 min	15° max		Dk
DL14cc	X		.200 max	.020 min	.015 .023		.008 .014	.790 max		.100 typ	.326 max		.100 .165	15° max		Dh
DL14cd	X		.150 max	.034	.017		.009	.755 max	.294	.100	.300		.129			Db
DL14ce		X	5.08 max	.38 nom	.41 .51	1.14 1.65	.230 .280	18.8 19.5	6.10 6.60	2.29 2.79	7.37 7.87		2.54 3.81		1.78 2.03	Dp
DL14cf		X	4.50 max	.50 min	.40 .60	1.40 1.80	.200 .350	18.8 19.5	6.15 6.45	2.29 2.79	7.32 7.92		3.00 min			Dp
DL14cg		X	4.9 max	.50 min	.35 .65		.15 .35	19.3 max	6.7 max	2.29 2.79	7.62		2.5 min	0° 10°		Dh
DL14ch		X	5.0 max		.35 .65	1.25 1.55	.15 .35	19.9 max	6.5 max	2.29 2.79			2.5 min			Dc
DL14ci		X	5.08 max	.51 1.02	.38 .58	1.40 1.77	.20 .38	19.05 19.94	6.10 7.49	2.54	7.49 8.89		3.18 5.08	15° max	1.91 2.29	Dp
DL14cj		X	5.08 max	.51 min	.38 .53	1.02 1.78	.20 .38	18.03 19.56	6.10 6.60	2.54	7.62		2.92 min	0° 15°	1.32 2.41	Dm
DL14ck		X	4.96	.51 min	.38 .54	1.52	.17 .33	19.18 19.81	6.35	2.54 typ	7.87		4.06	0° 15°		Dh
DL14cm		X	5.1 max	.50 min	.45	1.8 max	.30	18.0 19.6	6.35	2.54 typ	7.6		3.2 min	0° 15°		Dp
DL14cn		X			.381 min			19.43	6.35	2.54	7.62		3.43			Dc
DL14co		X			.018			19.05	6.35	2.54			3.43			Dc
DL14cp		X	5.1 max	.50 min	.35 .55	1.65 max	.15 .35	18.9 19.5	7.4 7.8	2.54	7.6 8.8		3.2 3.8		1.9	Dc
DL14cq		X	5.08 max	.51 min	.39 .58	.89 1.65	.21 .35	18.67 19.93	6.10 6.60	2.54	7.37 7.87		2.54 min	0° 15°	1.9 ref	Dp
DL14cr		X	5.08 max	1.0	.40 .50	1.14 1.65	.228 .279	18.9 19.5	7.36 7.87	2.29 2.79	7.37 7.87		2.54 3.81		1.77 2.03	Dp
DL14cs			3.68 3.94	.508 min	.381 .533		.229 .381	19.59 max	6.22 6.48	2.54 typ	7.62 8.13		3.18 min		1.52 2.29	Dh
DL14ct	X		.200 max	.020 .030	.016 .023	.030 .070	.008 .012	.660 .785	.220 .280	.100 typ	.290 .310		.100 min	0° 15°	.065 .095	Dp
DL14cu	X		.200 max		.015 .023		.008 .015	.750 max	.240 .280	.100 typ			.125 min	0° 15°	.062 typ	Dc
DL14cv		X	3.83 max	.88	.45		.25	19.2 max	7.47 max	2.54	7.62		3.3			Db

(Continued)

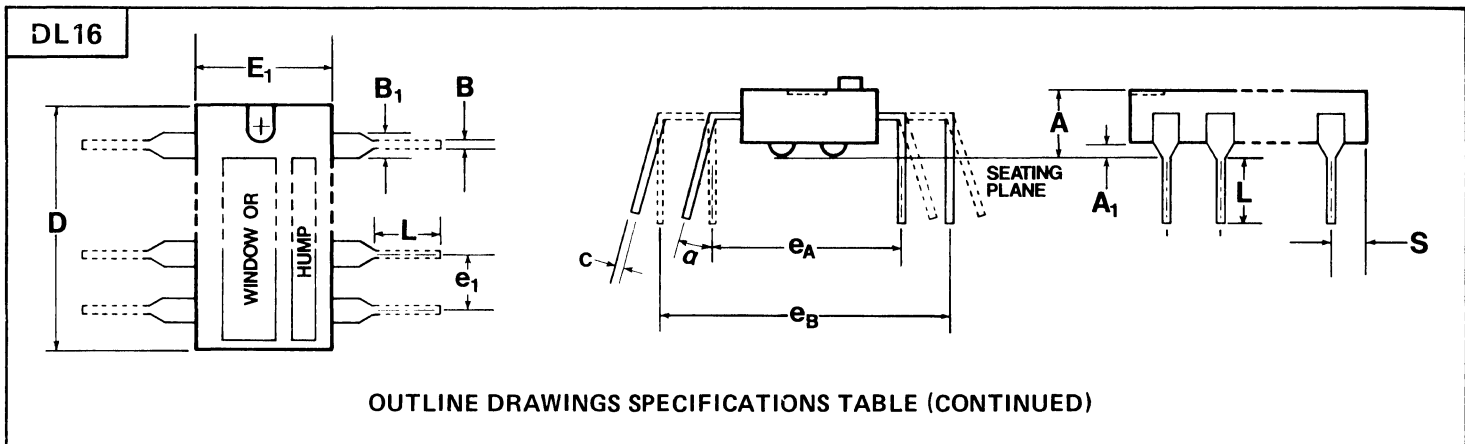
30. OUTLINE DRAWINGS

DL14		OUTLINE DRAWINGS SPECIFICATIONS TABLE (CONTINUED)														
Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL14cw		X	.200 max	.020 min	$\frac{.015}{.020}$	$\frac{.040}{.065}$	$\frac{.008}{.012}$	.795 max		.100 typ	$\frac{.290}{.310}$		.090 min	15° max		Dh
DL14cx		X	4.7 max	.51 min	.53 max	1.4 max	.32 max	19.5 max		2.54	8.25 max		$\frac{3.05}{3.90}$		2.2 max	Dh
DL14cy		X	5.08 max	.38 min	$\frac{.38}{.51}$	1.5	$\frac{.23}{.28}$	19.94 max		2.54	8.25 max		$\frac{2.54}{3.80}$		2.54 max	Dp
DL14cz		X	5.06 max	.50 min	$\frac{.38}{.58}$	1.5	$\frac{.20}{.38}$	19.3	6.3	$\frac{2.29}{2.79}$	7.62		2.8 min	0° 15°		Dp
DL14da		X	5.06 max	.51 min	$\frac{.38}{.58}$	1.3	$\frac{.20}{.35}$	20.32 max	7.4 max	$\frac{2.29}{2.79}$	7.62		2.54 min	0° 15°		Dp
DL14db		X	5.1 max	.40 min	.65 max		.60 max	20.0 max	6.7 max	$\frac{2.29}{2.79}$	$\frac{7.59}{7.65}$		2.5 min	0° 15°		Dh
DL14dc		X	5.08 max	.51 min	$\frac{.43}{.53}$		$\frac{.25}{.30}$	$\frac{18.92}{19.94}$	$\frac{6.17}{6.68}$	$\frac{2.52}{2.56}$	7.62 nom		2.92 min	0° 15°		Dp
DL14dd		X	3.90 max	0.51 min	0.46	1.27	0.25	19.25 max	7.47 max	2.54	7.62		$\frac{3.40}{3.90}$	0° 7°	2.15 max	Db
DL14de		X	5.08	$\frac{.51}{1.27}$	$\frac{.41}{.51}$		$\frac{.20}{.30}$	$\frac{18.8}{20.5}$	8.12	$\frac{2.41}{2.67}$	7.62		$\frac{3.18}{4.45}$			
DL14df		X	5.08 max	$\frac{0.51}{1.02}$	$\frac{0.38}{0.58}$	$\frac{1.40}{1.77}$	$\frac{0.20}{0.38}$	$\frac{19.05}{19.94}$	$\frac{6.10}{7.49}$	2.54 BSC	7.62 BSC		$\frac{3.18}{4.32}$	15° max	$\frac{1.91}{2.29}$	Dh
DL14dg		X	$\frac{4.06}{5.08}$	$\frac{0.51}{1.02}$	$\frac{0.38}{0.53}$	$\frac{1.02}{1.78}$	$\frac{0.20}{0.38}$	$\frac{18.16}{19.56}$	$\frac{6.10}{6.60}$	2.54 BSC	7.62 BSC		$\frac{2.92}{3.43}$	0° 10°	$\frac{1.32}{2.41}$	Dh
DL14dh		X	$\frac{5.5}{6.6}$	$\frac{.50}{1.5}$	.45	1.5	$\frac{.20}{.30}$	19.9 max	$\frac{5.5}{7.8}$	2.5	$\frac{7.3}{8.1}$		3.1 min	10°	2.4	Db
DL14di		X	$\frac{4.1}{5.4}$	$\frac{.51}{1.02}$	$\frac{.38}{.58}$	$\frac{.76}{1.78}$	$\frac{.20}{.36}$	$\frac{19.1}{19.9}$	7.6 max	$\frac{2.2}{2.7}$	$\frac{7.3}{8.1}$		$\frac{3.1}{4.1}$		$\frac{1.7}{2.4}$	Dh
DL14dj		X	$\frac{3.05}{4.06}$	$\frac{.51}{1.65}$	$\frac{.35}{.508}$	$\frac{1.27}{1.65}$	$\frac{.20}{.30}$	$\frac{18.9}{19.5}$	$\frac{6.1}{6.6}$	2.54	7.62		$\frac{3.1}{3.8}$	15°	$\frac{1.6}{2.2}$	Dh
DL14dk		X	$\frac{3.9}{5.0}$	$\frac{.51}{1.27}$	$\frac{.35}{.50}$	$\frac{1.27}{1.65}$	$\frac{.20}{.30}$	$\frac{18.9}{19.5}$	$\frac{6.1}{6.6}$	2.54	7.62		$\frac{3.1}{3.8}$	15°	$\frac{1.6}{2.2}$	Dh
DL14dl		X	4.70 max	$\frac{.38}{1.52}$	.45	1.52	.25	19.5	6.98	2.54	7.8		4.0	15°		Dh
DL14dm		X	5.08 max		$\frac{.38}{.508}$	1.77 max	$\frac{0.2}{0.3}$	$\frac{17}{19.9}$	6.35	2.54	7.62		$\frac{3.1}{3.9}$			Db
DL14dn	X			.035 max	.021 max	.062 max	.015 max	1.060 max	.252 max	.110 max	.310 max		.135 max		.080 max	Di
DL14do	X			.040 max	.023 max	.070 max	.014 max	.990 max	.302 max	.110 max	.320 max		.165 max		.050 max	Dh

DL16																
Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL16a	X		.200 max	.015 min	.021 max	.065 max	.011 typ	.870 max	.260 max	.100 typ	.300 typ		.125 min		.085 max	Dc
DL16b	X		.160 max	.020 min	.023 max	.065 max	.019 typ	.755 max	.250 max	.100 typ	.300 typ		.125 min		.085 max	Dc

(Continued)

30. OUTLINE DRAWINGS



Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL16c	X		.180 max	.020 min	.020 max	.065 max		.785 max		.100 typ	.350 max		.160 typ		.085 max	Dc
DL16d	X		.185 max		.022 max	.065 max	.010 typ	.780 max	.255 max	.100 typ	.350 max		.105 min		.085 max	Dc
DL16e	X		.130 .160	.015 .035	.015 .023	.065 max	.010 .015	.745 .755	.245 .250	.090 .110	.290 .310		.125 min		.085 max	Dc
DL16f	X		.185 max	.043 min	.014 .022	.043 .055	.009 .014	.744 .860	.240 .251	.100 typ	.290 .375				.085 max	Dc
DL16g	X		.181 max	.019 min	.017 max		.009 typ	.708 .866	.244 .259	.100 typ	.299 .322		.122 .141		.085 max	Dc
DL16h	X		.162 max	.019 min	.018 max			.870 max	.240 .263	.100 typ	.307 .322		.125 min		.085 max	Dc
DL16i	X		.200 max	.020 min	.015 .021	.070 max	.008 .014	.870 max	.240 .260	.100 typ	.290 .310		.125 min		.085 max	Dc
DL16j	X		.160 .180	.020 .040	.015 .020	.040 .060	.008 .012	.815 .840	.240 .260	.100 typ	.290 .310		.115 .135		.085 max	Dc
DL16k	X		.181 max	.019 min	.017 max	.059 max	.009 typ	.779 .787	.244 .259	.100 typ	.299 .322		.122 .141		.085 max	Dc
DL16m		X	4.06 5.08	.51 1.02	.38 .41	1.40 1.65	.20 .31	19.05 19.81	6.22 6.99	2.54	7.37 7.87		3.18 4.06	15° max	.51 1.14	Dp
DL16n	X		.180 max	.020	.019		.010	.800 max	.265 max	.100	.300		.125			Dh
DL16o	X		.165 .228	.020 .040	.016 .020		.010	.745 .785	.265 max	.100	.300		.095 .115			Dh
DL16p	X			.015 .055	.014 .023		.008 .015	.870 max	.220 .280	.100	.300		.100 min			Dh
DL16q	X		.140	.020 .050	.016 .020		.008 .012	.780 .810	.290				.125 .175			Dg
DL16r	X		.200 max	.015 min	.015 .020		.008 .012	.800 max	.245 .272	.100			.100 .150			Dg
DL16s	X		.200 max	.020 min	.020			.785 max		.090 .110	.290 .310		.150			Dj
DL16t	X		.200 max	.015 min	.023 max			.750 .785	.240 .250	.090 .110	.290 .310		.100 min			Dj
DL16u	X		.197 max	.019 min	.016 .024			.780	.256 max	.090 .110	.288 .312		.118 min			Dj
DL16v	X		.200 max	.020 min	.015 .023			.755 .785	.245 .285	.100 typ	.290 .310		.130 min			Dj
DL16w	X		.200 max	.020 min	.015 .023			.755 .785	.280 max	.090 .110	.290 .310		.130 min			Dj

Continued

30. OUTLINE DRAWINGS

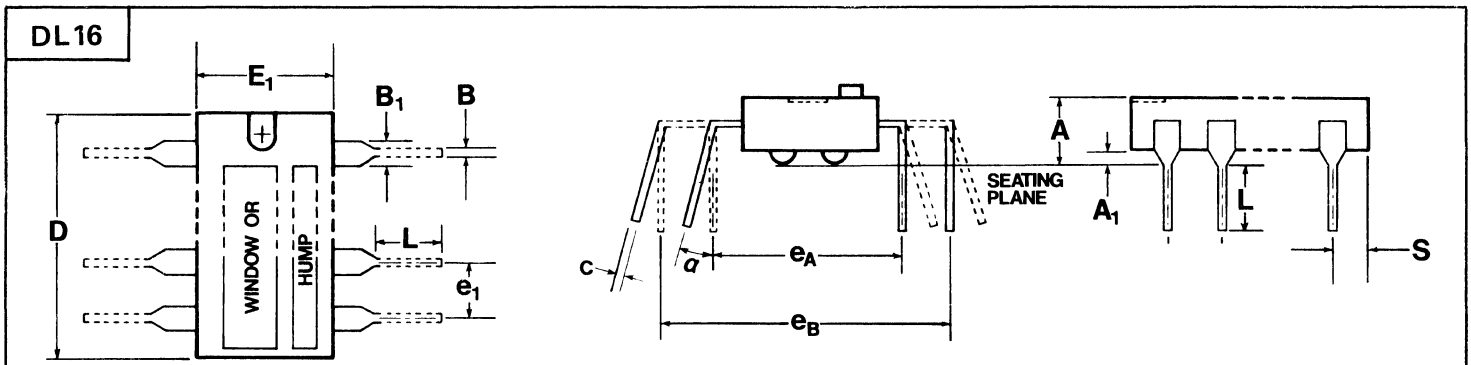
DL16

OUTLINE DRAWINGS SPECIFICATIONS TABLE (CONTINUED)

Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL16x	X		$\frac{.170}{.219}$	$\frac{.020}{\text{min}}$	$\frac{.016}{.020}$	$\frac{.045}{.065}$	$\frac{.009}{.011}$	$\frac{.755}{.785}$	$\frac{.265}{.291}$	$\frac{.090}{.110}$	$\frac{.290}{.310}$		$\frac{.100}{.165}$		$\frac{.015}{.045}$	Dp
DL16y	X				.020		$\frac{.009}{.011}$	$\frac{.745}{.755}$	$\frac{.245}{.255}$	$\frac{.090}{.110}$	$\frac{.290}{.300}$		$\frac{.125}{\text{min}}$			Dp
DL16z	X		$\frac{.196}{\text{max}}$	$\frac{.019}{\text{min}}$	$\frac{.019}{\text{min}}$			$\frac{.787}{\text{max}}$	$\frac{.275}{\text{max}}$	.100	$\frac{.290}{.310}$		.149			Dp
DL16aa	X		$\frac{.200}{\text{max}}$	.012	$\frac{.011}{.019}$		$\frac{.007}{.011}$	$\frac{.800}{\text{max}}$		.100	.324		$\frac{.100}{.150}$			Dp
DL16ab	X		$\frac{.145}{.188}$	$\frac{.020}{.040}$	$\frac{.016}{.020}$		$\frac{.010}{.012}$	$\frac{.745}{.785}$	$\frac{.243}{.263}$	$\frac{.098}{.102}$			$\frac{.115}{.135}$			Dp
DL16ac	X		$\frac{.145}{.169}$	$\frac{.015}{.025}$	.018	$\frac{.058}{\text{min}}$	$\frac{.009}{.011}$	$\frac{.755}{.785}$	$\frac{.245}{.286}$	.100	$\frac{.308}{.314}$		$\frac{.115}{.135}$		$\frac{.015}{.045}$	Dp
DL16ad	X		$\frac{.200}{\text{max}}$	.020	$\frac{.016}{.020}$	$\frac{.045}{.065}$	$\frac{.009}{.011}$	$\frac{.750}{.785}$	$\frac{.245}{.271}$	$\frac{.090}{.110}$	$\frac{.325}{\text{max}}$		$\frac{.125}{\text{min}}$		$\frac{.016}{.045}$	Dp
DL16ae	X		$\frac{.200}{\text{max}}$	$\frac{.020}{.070}$	$\frac{.016}{.020}$	$\frac{.055}{.065}$	$\frac{.008}{.012}$	$\frac{.785}{\text{max}}$	$\frac{.280}{\text{max}}$	$\frac{.090}{.110}$	$\frac{.310}{\text{max}}$		$\frac{.130}{\text{min}}$		$\frac{.050}{\text{max}}$	Dp
DL16af	X		.215	$\frac{.019}{\text{min}}$	.017		$\frac{.007}{\text{min}}$	$\frac{.787}{\text{max}}$	$\frac{.275}{\text{max}}$	.100			.137		$\frac{.049}{\text{max}}$	Dp
DL16ag	X		.200	$\frac{.020}{\text{min}}$	$\frac{.015}{.023}$		$\frac{.008}{.014}$	$\frac{.755}{.785}$	$\frac{.280}{\text{max}}$	$\frac{.090}{.110}$			$\frac{.130}{\text{min}}$			Dp
DL16ah	X		.175	.025	$\frac{.015}{.021}$	.060	$\frac{.008}{.012}$	.765	.248	.100			$\frac{.105}{.145}$			Dp
DL16ai	X		$\frac{.200}{\text{max}}$	$\frac{.020}{.070}$	$\frac{.016}{.020}$	$\frac{.055}{.065}$	$\frac{.008}{.012}$	$\frac{.785}{\text{max}}$	$\frac{.280}{\text{max}}$	$\frac{.090}{.110}$	$\frac{.290}{.320}$		$\frac{.125}{\text{min}}$		$\frac{.050}{\text{max}}$	Dp
DL16aj	X		$\frac{.170}{.200}$	.035	$\frac{.015}{.020}$	$\frac{.057}{.063}$	$\frac{.008}{.012}$	$\frac{.740}{.780}$	$\frac{.240}{.270}$	$\frac{.090}{.110}$	$\frac{.290}{.325}$		$\frac{.115}{.135}$		$\frac{.015}{.035}$	Dp
DL16ak	X		$\frac{.165}{.215}$	$\frac{.020}{.040}$	$\frac{.015}{.023}$	$\frac{.070}{\text{max}}$	$\frac{.008}{.014}$	$\frac{.755}{.785}$	$\frac{.280}{\text{max}}$	$\frac{.090}{.110}$	$\frac{.290}{.315}$		$\frac{.125}{.165}$		$\frac{.015}{.050}$	Dp
DL16am	X		$\frac{.160}{.200}$	$\frac{.020}{.040}$	$\frac{.015}{.020}$		$\frac{.008}{.012}$	$\frac{.750}{.780}$	$\frac{.245}{.275}$	.100	$\frac{.290}{.310}$		$\frac{.125}{.165}$		$\frac{.020}{.045}$	Dp
DL16an	X		$\frac{.220}{\text{max}}$	.020	.017		.009	$\frac{.787}{\text{max}}$	$\frac{.291}{\text{max}}$	.100			$\frac{.129}{\text{max}}$			Dp
DL16ao	X		$\frac{.160}{.200}$	$\frac{.020}{.040}$	$\frac{.015}{.020}$	$\frac{.055}{.065}$	$\frac{.008}{.012}$	$\frac{.750}{.780}$	$\frac{.245}{.275}$	.100	$\frac{.290}{.310}$		$\frac{.125}{.160}$		$\frac{.020}{.045}$	Dp
DL16ap	X		$\frac{.196}{\text{max}}$	$\frac{.020}{\text{min}}$	$\frac{.016}{.023}$		$\frac{.009}{.014}$	$\frac{.798}{\text{max}}$		.100 typ	.299 typ		$\frac{.118}{\text{min}}$		$\frac{.049}{\text{max}}$	Dp
DL16aq	X		$\frac{.196}{\text{max}}$	$\frac{.019}{\text{min}}$	.018		.009	$\frac{.787}{\text{max}}$	$\frac{.291}{\text{max}}$	.100			.129			Dp
DL16ar	X		$\frac{.155}{.200}$	$\frac{.020}{.050}$	$\frac{.014}{.020}$	$\frac{.035}{.065}$	$\frac{.008}{.012}$	$\frac{.745}{.785}$	$\frac{.240}{.275}$	.100 typ	.300 typ		$\frac{.100}{.160}$		$\frac{.015}{.060}$	Dp
DL16as	X		$\frac{.201}{\text{max}}$	$\frac{.020}{\text{min}}$	$\frac{.023}{\text{max}}$	$\frac{.062}{\text{max}}$	$\frac{.014}{\text{max}}$	$\frac{.787}{\text{max}}$	$\frac{.260}{\text{max}}$	.100	$\frac{.300}{\text{max}}$		$\frac{.118}{\text{min}}$		$\frac{.050}{\text{max}}$	Dp
DL16at	X		$\frac{.208}{\text{max}}$	.015	$\frac{.015}{.022}$	.059	.009	.800		.100	$\frac{.324}{\text{max}}$		$\frac{.125}{.165}$		$\frac{.050}{\text{max}}$	Dp
DL16au	X		$\frac{.200}{\text{max}}$	$\frac{.020}{.070}$	$\frac{.016}{.020}$	$\frac{.055}{.065}$	$\frac{.008}{.012}$	$\frac{.785}{\text{max}}$	$\frac{.291}{\text{max}}$	$\frac{.090}{.110}$	$\frac{.290}{.320}$		$\frac{.125}{\text{min}}$		$\frac{.050}{\text{max}}$	Dp
DL16av	X		.175	$\frac{.020}{\text{min}}$	$\frac{.015}{.021}$	.060	$\frac{.007}{.013}$	$\frac{.755}{.780}$	.270	.100 typ	.310		.160			Dp
DL16aw	X		$\frac{.165}{.215}$	$\frac{.020}{.040}$	$\frac{.015}{.023}$	$\frac{.030}{.070}$	$\frac{.008}{.014}$	$\frac{.755}{.785}$	$\frac{.302}{\text{max}}$	$\frac{.090}{.100}$	$\frac{.290}{.320}$		$\frac{.125}{.165}$		$\frac{.015}{.050}$	Dp

(Continued)

30. OUTLINE DRAWINGS



OUTLINE DRAWINGS SPECIFICATIONS TABLE (CONTINUED)

Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL16ax	X		.200 max	.020 min				.710 max	.280 max	.090 .110	.290 .310		.100 typ			Dp
DL16ay	X		.150 .180	.020 max	.015 .021	.040 .050	.008 .012	.840 .880	.235 .275	.090 .110	.290 .310		.100 min			Df
DL16az	X		.120 .200	.020 .065	.014 .020		.008 .012	.745 .785	.240 .260	.100	.300 .325		.125 .150			Dh
DL16ba	X		.220 max	.015 min	.014 .023		.008 .015	.725 .825	.220 .325	.100 typ	.290 .325		.100			Dh
DL16bb	X		.197 max	.020 min	.016 .024		.008 .012	.795 max	.256 max	.090 .110	.288 .312		.118 min			Dh
DL16bc	X		.200 max		.015 .023		.007 .013	.763 max	.252	.100	.300		.100 min			Dh
DL16bd	X		.200 max	.020 .080	.015 .023	.030 .070	.008 .015	.740 .760	.235 .265	.090 .110	.290 .310		.100 min			Dh
DL16be	X		.130 .160	.015 .035	.015 .021	.044 .052	.010 .015	.745 .755	.245 .252	.090 .110	.290 .310		.120 .135		.065 .085	Dh
DL16bf	X		.175	.031	.019	.031	.009	.748	.251	.100	.299		.080			Dh
DL16bg	X		.130 .160	.015 .035	.015 .021	.050 .054	.008 .012	.760 .780	.245 .255	.090 .110			.120 .135			Dh
DL16bh	X		.148	.019 min	.017		.007 min	.787 max	.255 max	.100			.137			Dc
DL16bi	X		.200 nom	.015 nom	.016 .020		.009 .011	.740 .760	.240 .300	.090 .110			.100 .150			Dc
DL16bj	X		.200	.020	.017		.009	.787 max	.279 max	.100			.129			Dc
DL16bk	X		.160 .200	.015 .045	.017 .019		.010 .012	.760 .770	.260 .270				.120 min			Dc
DL16bm	X		.177	.019 min	.015 .023		.007 .013	.740 .767	.242 .253	.086 .109			.118 min			Dc
DL16bn	X		.180 max	.040 typ	.020 typ	.060 typ	.010 typ	.765 max	.250	.092 .108	.300 nom		.130		.020	Dp
DL16bo		X	4.06 4.57	.51 1.02	.38 .51	1.02 1.52	.20 .30	20.7 21.34	6.10 6.60	2.54	7.37 7.87		2.92 3.43	10° max	1.32 1.83	Dm
DL16bp		X	3.3 4.07	.38 .89	.38 .53	1.12 1.32	.25 .38	18.92 19.18	6.22 6.40	2.29 2.79	7.37 7.87		3.05 3.43		.51 .76	Dh
DL16bq	X		.200 max	.020	.015 .023	.030 .070	.008 .015	.750 .880	.235 .275	.090 .110	.325 max		.125 min			Dp

Continued

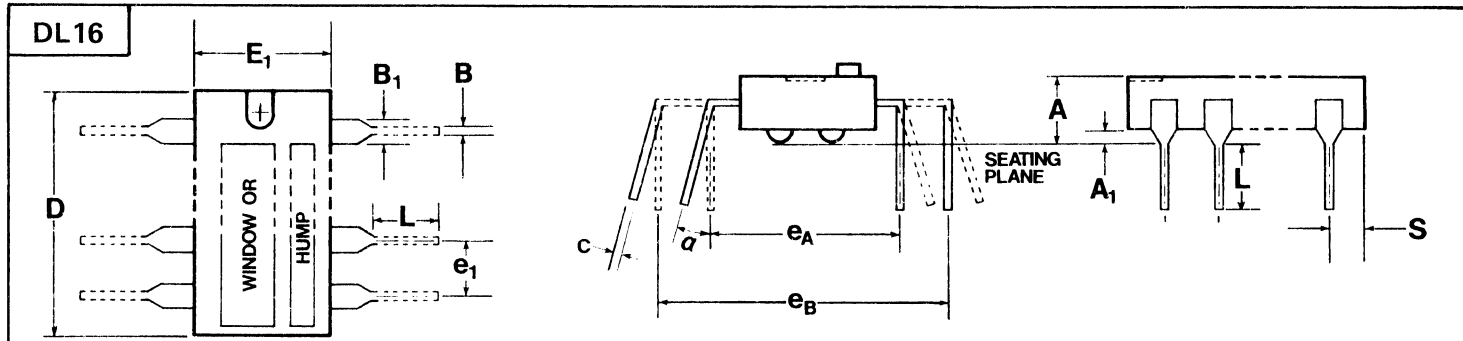
30. OUTLINE DRAWINGS

DL16																
OUTLINE DRAWINGS SPECIFICATIONS TABLE (CONTINUED)																
Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL16br ²		X	5.08 max	.38 1.52	.36 .58	.76 1.78	.20 .38	22.76 max	5.59 7.87	2.54 min	7.37 8.13		3.18 5.08	0° 15°	2.49 max	Dh
DL16bs		X	5.08 max	.38 1.52	.36 .58	.76 1.78	.20 .38	22.76 max	5.59 7.87	2.54 min	7.37 8.13		3.18 5.08	0° 15°	2.49 max	Dr
DL16bt		X	5.08 max	.38 1.52	.36 .58	.76 1.78	.20 .38	22.76 max	5.59 7.87	2.54 min	7.37 8.13		3.18 5.08		2.49 max	Da
DL16bu	X		.145 .155	.020 min	.015 .021		.009 .015	.870 max	.245 .255	.100	.300 .320		.125 min		.060 .090	Dc
DL16bv	X		.145 .155	.015 min	.014 .023		.008 .015	.820 .860	.240 .260	.090 .110	.325 max		.100 min			Dc
DL16bw	X		.185 max	.014	.014 .022		.009 .014	.744 .860	.241 .251	.100	.324 max		.125 .153			Dc
DL16bx	X		.196 max	.020 min	.016 .023		.009 .014	.798 max		.100 typ	.299 typ		.118 min		.049 max	Dc
DL16by	X		.145 .155	.015 min	.016 .020		.010 typ	.825 .835	.245 .255	.090 .110	.325 max		.125 min			Dc
DL16bz	X		.165 max		.015 .019		.008 .012	.730 max	.280	.090 .110	.310 max		.125 min			Dp
DL16ca	X		.200 max	.020 .080	.015 .023		.008 .015	.730 .770	.230 .265	.090 .110	.290 .310		.100 min			Dp
DL16cb	X		.185 max	.020 min	.014 .020		.009	.866 max		.100	.324 max		.120 .153		.086	Dh
DL16cc	X		.185 max	.020 min	.014 .020	.047	.009	.767 max		.100	.324 max		.120 .153		.029 max	Dh
DL16cd	X		.130 .170	.015 min	.015 .023	.045 .065	.009 .011	.755 .785	.265 .291	.090 .110	.300 .320		.100 .130		.010 min	Dh
DL16ce	X		.145 .155	.020 nom	.018 .022		.009 .011	.745 .755	.245 .255	.090 .110	.290 .300		.125 min			Dh
DL16cf	X		.200 max	.015 .080	.014 .023	.030 .070	.008 .015	.640 .768		.090 .110	.290 .320		.125 .200		.010 .053	Db
DL16cg	X		.140 max				.009 .011	.800 max		.100 typ	.300 ref					Db
DL16ch		X	5.08 max	.51 min	.38 .508	1.77 max	.20 .30	19.94 22.44	6.35	2.54	7.62		3.1 3.9	0° 15°		Dc
DL16ci		X	3.68 4.78	.51 1.02	.41 .51	.76 .86	.25 .30	18.92 19.94	6.17 6.68	2.49 2.59	7.62		2.92 3.43	15° max		Dc
DL16cj	X		.200 max	.015 min	.016 .020	.045 .065	.009 .011	.750 .785	.245 .271	.090 .110	.290 .310		.100 .165		.015 .045	Dp
DL16ck		X	3.30 4.07	.38 .89	.38 .53	1.12 1.32	.25 .38	23.24 23.50	6.22 6.40	2.29 2.79	7.37 7.87		3.05 3.43		1.52 1.78	Dh
DL16cm	X		.144	.034 max	.017		.009	.807 max	.294	.100	.300		.129			Db
DL16cn		X	4.5 max	.70	.35 .55	1.27	.17 .37	19.7 max	6.4	2.54	7.62		2.6 max	0° 15°		Dc
DL16co		X	5.08 max	.381 nom	.406 .508	1.14 1.65	.229 .279	18.80 19.56	6.096 6.604	2.29 2.79	7.36 7.62		2.54 3.81		.635 nom	Dp
DL16cp	X		.170 .219	.020 min	.016 .020	.045 .065	.009 .011	.755 .785	.265 .291	.090 .110	.290 .310		.100 .165		.015 .045	Dp
DL16cq		X	4.9 max	.50 min	.35 .65		.15 .35	19.3 max	6.7 max	2.29 2.79	7.62		2.5 min	0° 10°		Dh

2. May also be available in pkgs DL16bs and DL16bt. Consult mfr.

(Continued)

30. OUTLINE DRAWINGS



OUTLINE DRAWINGS SPECIFICATIONS TABLE (CONTINUED)

Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL16cr		X	5.0 max	.50 min	.35 .65	1.25 1.55	.20 .35	19.2 max	6.5 max	2.29 2.79	7.37 7.87		2.5 min			Dc
DL16cs		X	4.2 4.7	.50 min	.45	1.8 max	.27	18.9 19.3	6.2 6.4	2.54 typ	7.5 7.7		3.1 min	0° 15°	7.6 max	Dp
DL16ct		X	3.95	.065	.50	1.78 max		21.84 max	6.35 6.40	2.54			3.75			Dh
DL16cu	X		.172 max	.020 min	.015 .021	.060 .072	.008 .012	.765 .780	.234 .254	.100	.290 .310		.118 min	15° max	.024 .044	Dp
DL16cv		X	5.08 max	.38 1.52	.36 .58	.76 1.78	.20 .38	22.76 max	5.59 7.87	2.29 2.79	7.37 8.13		3.18 5.80			Db
DL16cw		X	5.08 max	.51 min	.39 .58	.89 1.65	.21 .35	18.67 19.93	6.10 6.60	2.29 2.79	7.37 7.87		2.54 min	0° 15°	.64 ref	Dp
DL16cx	X		.160 max	.020 min	.014 .025		.008 .015	.740 .830	.240 .295	.090 .110	.290 .350		.090 min	0° 15°		Dd
DL16cy	X		.165	.035	.018 typ	.060 typ	.010	.850	.250		.300		.130 max	5° nom		Dp
DL16cz		X	5.0 max	.50 min	.35 .65	1.25 1.55	.20 .35	19.9 max	6.5 max	2.29 2.79	7.37 7.87		2.5 min			Dp
DL16da	X		.130 .140	.025 .045	.016 .020	.054 typ	.009 .011	.790 .810	.300 typ	.100	.304 .316		.130	0° 15°		Dq
DL16db		X	4.5 max	.50 min	.40 .60	.90 1.3	.20 .35	18.8 19.5	6.15 6.45	2.29 2.79	7.32 7.92		3.0 min			Dc
DL16dc		X	5.08 max	.508 min	.381 .533	1.14 1.78	.203 .304	21.08 max		2.54	7.36 7.87		3.18 3.81	0° 15°	.381 2.29	Db
DL16dd	X		.200 max	.020 min	.015 .020	.030 .070	.008 .012	.740 .780	.220 .280	.100 typ	.290 .310		.100 min	0° 15°	.015 .035	Dp
DL16de	X		.200 max		.015 .023		.008 .015	.780 max	.240 .280	.100 typ	.300 .360		.125 min	0° 15°	.062 typ	Dc
DL16df		X	5.0 max	.50 min	.46		.25	20 max	7.4 max	2.54			3.3			Dp
DL16dg		X	5.1 max	.51 min	.45		.25	20 max	7.1 max	2.54			3.3			Dc
DL16dh		X	3.83 max	.88	.45		.25	20.53 max	7.47 max	2.54	7.62		3.3			Db
DL16di	X		.200 max	.020 min	.015 .020	.030 .070	.008 .012	7.95 max	.220 .280	.100 typ	.290 .310		.090 min	15° max		Dh
DL16dj		X	.155 .240	.015 .060	.381 .584	.762 1.78	.203 .381	19.81 max	6.10 7.87	2.29 2.79	7.37 8.13		3.18 5.08			Dj
DL16dk		X	5.06 max	.51 min	.38 .58	1.3	.20 .35	20.32 max	7.4 max	2.29 2.79	7.62		2.54 min	0° 15°		Dp
DL16dm		X	5.08 max	.51 min	.43 .53		.25 .30	18.92 19.94	6.17 6.68	2.54 2.56	7.62 nom		2.92 min	0° 15°		Dp
DL16dn	X		.150 .200	.010 .040	.015 .022	.055 .065	.008 .012	.940 .990	.260 .295	.100 bsc	.300 bsc		.125 .160	0° 15°	.020 .050	Dh

(Continued)

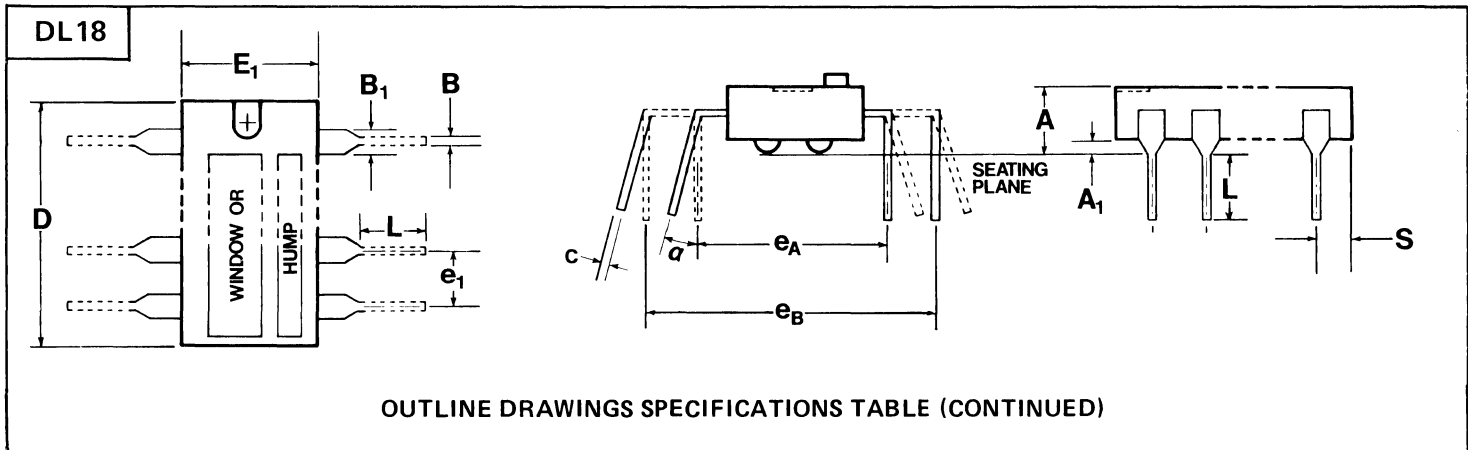
30. OUTLINE DRAWINGS

DL 16		OUTLINE DRAWINGS SPECIFICATIONS TABLE (CONTINUED)														
Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL16do	X		$\frac{.155}{.165}$	$\frac{.020}{.040}$	$\frac{.015}{.022}$	$\frac{.050}{.070}$	$\frac{.008}{.015}$	$\frac{1.010}{1.070}$	$\frac{.240}{.260}$	.100 bsc	.300 bsc		$\frac{.110}{.140}$	$\frac{0^\circ}{15^\circ}$		Di
DL16dp	X		$\frac{.160}{.200}$	$\frac{.020}{.040}$		$\frac{.040}{.070}$	$\frac{.008}{.015}$	$\frac{.740}{.840}$	$\frac{.240}{.260}$	.100 bsc	.300 bsc		$\frac{.115}{.135}$	$\frac{0^\circ}{10^\circ}$	$\frac{.015}{.095}$	Dp
DL16dq		X	5.08 max	$\frac{0.38}{1.52}$	$\frac{0.36}{0.58}$	$\frac{0.76}{1.78}$	$\frac{0.20}{0.38}$	21.31 max	$\frac{5.54}{7.87}$	2.54 bsc	7.37 8.13		$\frac{3.18}{5.08}$	$\frac{0^\circ}{15^\circ}$	2.03 max	Dg
DL16dr	X		3.55 max	.030 typ	.021 max	.060 typ	.012 max	.770 max	.265 max	.100 typ	.300		.125 min	$\frac{0^\circ}{15^\circ}$		Dc
DL16ds		X	5.08 max	$\frac{0.51}{1.02}$	$\frac{0.38}{0.53}$	$\frac{1.40}{1.78}$	$\frac{0.20}{0.30}$	$\frac{19.05}{19.94}$	$\frac{6.10}{7.49}$	2.54 BSC	7.62 BSC		$\frac{3.18}{4.32}$	$\frac{15^\circ}{max}$	$\frac{0.51}{1.14}$	Dh
DL16dt		X	$\frac{4.06}{5.08}$	$\frac{0.51}{1.02}$	$\frac{0.38}{0.53}$	$\frac{1.02}{1.78}$	$\frac{0.20}{0.38}$	$\frac{18.80}{21.34}$	$\frac{6.10}{6.60}$	2.54 BSC	7.62 BSC		$\frac{2.92}{3.43}$	$\frac{0^\circ}{10^\circ}$	$\frac{0.38}{2.41}$	Dp
DL16du		X	5.08 max	.381 min			$\frac{0.228}{min}$	$\frac{19.05}{19.94}$	$\frac{6.10}{7.11}$	$\frac{2.29}{2.79}$	9.53		2.54 min			
DL16dv		X	$\frac{4.1}{5.4}$	$\frac{.51}{1.0}$	$\frac{.38}{.58}$	$\frac{.76}{1.78}$	$\frac{.20}{.36}$	$\frac{19.1}{19.9}$	7.6 max	2.2 2.7	$\frac{7.3}{8.1}$		$\frac{3.1}{4.1}$		$\frac{.38}{1.2}$	Dh
DL16dw		X	$\frac{3.05}{4.06}$	$\frac{.51}{1.65}$	$\frac{.35}{.50}$	$\frac{.89}{1.65}$	$\frac{.20}{.30}$	$\frac{18.9}{19.9}$	$\frac{6.1}{6.6}$	2.54	7.62		$\frac{3.1}{3.8}$	$\frac{15^\circ}{max}$	$\frac{.39}{1.52}$	Dh
DL16dx		X	$\frac{3.9}{5.0}$	$\frac{.51}{1.27}$	$\frac{.35}{.50}$	$\frac{.89}{1.65}$	$\frac{.20}{.30}$	$\frac{18.9}{19.9}$	$\frac{6.1}{6.6}$	2.54	7.62		$\frac{3.1}{3.8}$	$\frac{15^\circ}{max}$	$\frac{.39}{1.52}$	Dh
DL16dy		X	4.7 max	0.51 min	0.53 max	1.4 max	0.32 max	19.5 max		2.54	8.25 max		$\frac{3.05}{3.43}$			Dp
DL16dz		X	5.08 max	0.38 min	$\frac{0.38}{0.51}$	1.5	0.32 max	19.94 max		2.54	8.25 max		$\frac{2.9}{3.4}$			Dh
DL16ea	X			.035 max	.021 max	.052 max	.015 max	.755 max	.252 max	.110 max	.310 max		.135 max		.030 max	Dab
DL16eb	X			.040 max	.023 max	.070 max	.014 max	.785 max	.302 max	.110 max	.320 max		.165 max		.050 max	Db

DL 18		OUTLINE DRAWINGS SPECIFICATIONS TABLE (CONTINUED)														
Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL18a	X		$\frac{.145}{.155}$	.020 min	$\frac{.015}{.021}$		$\frac{.009}{.015}$	.870 max	$\frac{.245}{.255}$	.100 typ	$\frac{.300}{.320}$		.125 min		$\frac{.010}{.040}$	Dc
DL18b		X	5.08 max	.51 min	$\frac{.38}{.58}$	$\frac{.76}{1.78}$	$\frac{.20}{.38}$	23.5 max	$\frac{5.59}{7.11}$	$\frac{2.29}{2.79}$	$\frac{7.37}{7.87}$		2.54 min	$\frac{0^\circ}{15^\circ}$		Dp
DL18c		X	$\frac{3.18}{4.27}$	$\frac{1.02}{1.52}$	$\frac{.43}{.58}$	$\frac{.89}{1.14}$	$\frac{.20}{.30}$	$\frac{22.61}{23.11}$		2.54	$\frac{7.82}{7.92}$		$\frac{3.56}{3.68}$			Db
DL18d		X	4.7 max	.51 min	$\frac{.38}{.53}$	1.2	.25	23.5 max		2.54	8.25 max		$\frac{3.05}{3.90}$		1.75 max	Dh
DL18e		X	5.08 max	.50 min	.50	1.5	.38	23.0	6.4	2.54	7.62		3.1 min	$\frac{0^\circ}{15^\circ}$		Dp
DL18f		X	3.9	.60	.46	1.52	.26	23.0	6.35	2.54	8.0		2.6 min	$\frac{15^\circ}{max}$	1.25	Dp
DL18g		X	4.45	.51 min	$\frac{.38}{.54}$	1.52	$\frac{.17}{.33}$	22.61	7.37	2.54 typ	7.87		4.06	$\frac{0^\circ}{15^\circ}$		Dh
DL18h		X	4.19	.76	$\frac{.38}{.54}$	1.52	$\frac{.20}{.30}$	22.86	6.35	2.54 typ	7.62		3.18	$\frac{0^\circ}{15^\circ}$		Dc

(Continued)

30. OUTLINE DRAWINGS



Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL18i		X	4.2 max	.50 min	.35 .55	1.5 max	.15 .35	22.4 23.0	6.4	2.54	7.4 7.8		3.2 3.8		1.2	Dc
DL18j		X	5.08 max	.51 min	.39 .58	.89 1.65	.21 .35	22.48 23.24	6.10 6.60	2.29 2.79	7.37 7.87		2.54 min	0° 15°	1.27 ref	Dp
DL18k		X	5.08 max	.38 1.52	.36 .58	.76 1.78	.20 .38	23.55 max	5.59 7.87	2.29 2.79	7.37 8.13		3.18 5.08			Db
DL18m		X	5.08 max	.51 min	.39 .58	.89 1.65	.21 .35	22.48 23.24	6.10 7.11	2.29 2.79	7.37 7.87		2.54 min	0° 15°	1.27 ref	Dp
DL18n		X	3.94 5.08	.508 1.27	.356 .508	.89 1.65	.204 .304	21.47 22.47	6.10 6.60	2.54 typ	7.62 typ		3.18 3.81	0° 15°	.39 1.52	Dh
DL18o		X	5.1 max	.51 min	.45		.40	23.37 max	7.1 max	2.54	8.38		3.3			Dc
DL18p		X	3.65		.50		.25	24.2	6.5	2.54	7.62		3.35			Dc
DL18q	X		.165 max	.015 min	.014 .021	.035 .055		.920 max	.300 max	.090 .110	.295 .325		.125 min			Db
DL18r	X				.014 .021	.035 .055		.920 max		.090 .110	.320 max		.125 min			Dh
DL18s	X		4.35 typ	.80 max	.40 .60	1.1 1.3	.15 .35	21.8 max	6.35 typ	2.29 2.79	7.62		3.0 3.6	0° 15°		Dc
DL18t		X	5.08 max	.38 min	.38 .51	1.5	.20 .30	23.6 max		2.54	8.25 max		2.54 3.80		1.27 max	Dp
DL18u		X	2.54 5.08	.508 1.52	.38 .56	1.02 1.65	.203 .330	21.59 23.62	6.60 7.87	2.29 2.79	7.37 8.13		3.18 4.06			Db
DL18v		X	3.56 4.57	.51 1.02	0.36 0.56	1.27 1.78	0.20 0.30	22.22 23.24	6.10 6.60	2.54 BSC	7.62 BSC		2.92 3.43	0° 15°		Dh
DL18w		X	5.0 max	0.5 min	0.35 0.65	1.25 1.55	0.20 0.35	23 max	6.5 max	2.29 2.79	7.37 7.87		2.5 min			Dp

DL20																
Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL20a	X		.200 max	.020 min	.015 .021	.069 max	.008 .014	1.082 max	.239 .260	.100 typ	.289 .310		.124 .155	0° 15°	.074 max	Dc
DL20b		X	.508 max	.51 min	.381 .584	1.78 max	.203 .356	23.6 24.8	6.22 7.62	2.54 typ	7.36 7.88		3.30 min	0° 15°	.38 1.27	Dp
DL20c		X	5.08 max	.38 nom	.46 typ	1.52 typ	.23 .28	26.08 26.24	6.50	2.29 2.79	7.37 7.87		3.81 min		1.65 typ	Dp

(Continued)

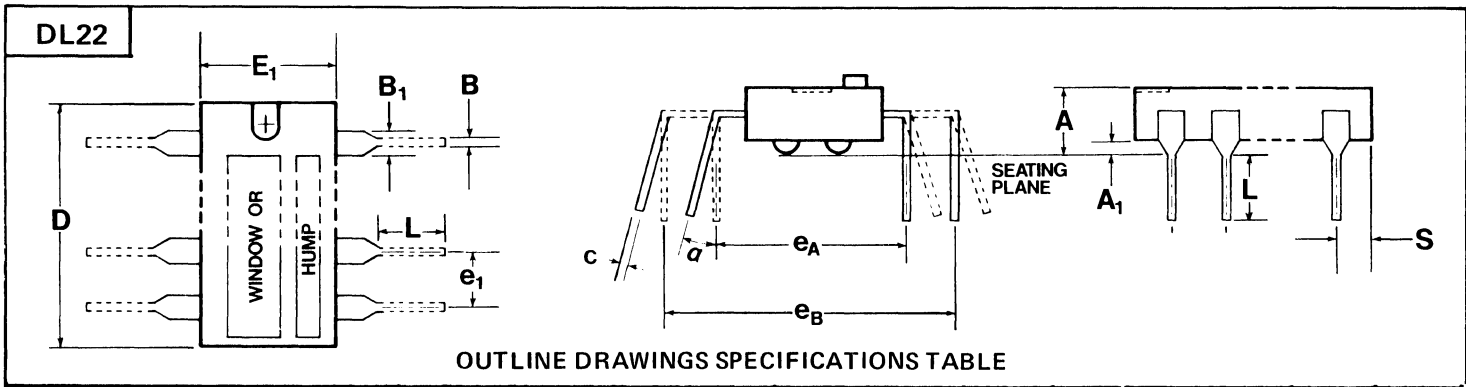
30. OUTLINE DRAWINGS

DL20

OUTLINE DRAWINGS SPECIFICATIONS TABLE (CONTINUED)

Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL20d		X	4.83 max	.38 .89	.41 .51	1.40 1.65	.20 .31	24.26 25.15	6.37 7.62	2.29 2.79	7.37 8.13		3.18 5.08	0° 15°	.070 1.78	Dp
DL20e		X	5.80 max	.38 1.52	.41 .51	1.40 1.65	.20 .31	26.03 27.30	6.10 7.37	2.29 2.79	7.11 8.13		3.04 4.19	0° 14°	2.03 max	Dp
DL20f		X	4.5 max	.50 min	.40 .60	1.2 1.6	.35 .20	23.8 24.5	6.15 6.45	2.29 2.79	7.32 7.92		3.0 min		.90 1.3	Dc
DL20g		X	4.32 5.08	.51 .76	.38 .56	1.40 1.65	.20 .30	24.38 25.15	6.86 7.49	2.54	7.62		3.18 4.06	5° 15°	.89 1.40	Dp
DL20h		X	3.94 4.19	.51 1.02	.38 .56	1.27 1.78	.20 .38	25.65 27.18	6.10 6.60	2.54	7.62		2.79 3.56	0° 15°		Dh
DL20i		X	3.30 4.57	.38 .89	.38 .53	1.12 1.32	.25 .38	26.54 26.92	6.22 6.40	2.29 2.79	7.37 7.87		3.05 3.43		1.78 2.03	Dh
DL20j		X	4.06 5.47	.38 1.02	.38 .58	.76 1.78	.20 .36	23.93 25.15	7.67 max	2.29 2.79	7.37 8.13		3.18 4.19		.127 1.27	Dp
DL20k	X		.140 .220	.015 .045	.016 .020	.050 .070	.009 .011	.935 .970	.245 .285	.090 .110	.290 .320		.125 .150	3° 13°	.050 min	Dh
DL20m	X		.150 .200	.015 .060	.015 .020	.055 .065	.009 .011	1.00 1.04	.250 .290	.090 .110			.125 .150		.025 .035	Dp
DL20n		X	4.83 6.07	.51 min	.38 1.14	1.14 1.65	.23 .28	24.38 24.77	7.11 7.32	2.29 2.79	7.37 7.87		2.54 4.19		.41 .51	Dp
DL20o		X	5.08 max	.51 min	.381 .533	1.78 max	.203 .355	23.3 27.2	6.99 max	2.54 typ	7.36 7.88		3.17 3.94	0° 15°	.22 1.91	Dp
DL20p		X	5.08 max		.50		.25	27.0 max	8.6	2.54	10.16		2.54 max			Dc
DL20q		X	3.81 5.08	.25 1.02	.38 .56	1.40 1.65	.20 .30	23.88 25.15	6.60 7.49	2.54	7.62		3.18 4.06	0° 15°	.51 1.27	Dp
DL20r		X	5.08 max	0.38 1.52	0.36 0.58	0.76 1.78	0.20 0.38	26.92 max	5.59 7.87	2.54 bsc	7.37 8.13		3.18 5.08	0° 15°	2.03 max	Dg
DL20s		X	4.2 max	0.5 min	0.45 0.55	1.4	0.25 0.35	25.15 25.65	7.02 7.62	2.54	7.02 8.22		3.20 3.80	0° 15°	1.3	Db
DL20t		X	4.2 max	0.5 min	0.45 0.55	1.5 max	0.25 0.35	25.10 25.30	6.20 6.40	2.54	7.40 7.80		3.20 3.80	0° 15°	1.2	Dc
DL20u		X	5.5 max	.50 min	.5	1.4		25 max	6.5 max	2.54	7.62 max		2.5 min	5°		Di
DL20v		X	5.08 max	0.51 min	0.381 0.584	0.76 min	0.203 0.356	23.62 24.77	6.22 7.62	2.54 typ	7.36 7.88		3.30 min		0.38 1.27	Dh
DL20w		X	3.93 5.58	0.38 min	0.381 0.584	1.016 1.651	0.203 0.305	23.62 27.18	5.84 6.86	5.286 2.794	7.62 8.26		2.54 min		0.38 1.27	Dh
DL20x		X	4.7 max	0.38 min	0.53 max	1.7 max	0.38 max	27 max		2.54	7.62 10.03		3.05 3.43		2.0 max	Dh
DL20y	X		.145 .155	.020	.015 .021	.060	.009 .011	1.070	.245 .255	.100	.300 .320		.135 .165	0° 15°	.060 .090	Dc
DL20z	X		.150 .200	.020	.016 .020	.055 .065	.008 .012	.962 .978	.285 .291	.100	.360 .410		.135 .165	0° 15°	.030 .040	Dh
DL20aa	X		.130	.025 .045	.016 .020	.047 .053	.009 .012	.990 1.010	.282 .298	.100	.290 .310		.135 .165		.047 .053	Db
DL20ab	X			.035 max	.021 max	.052 .044	.015 .010	1.060 max	.252 .245	.110 .090	.310 .290		.135 .120		.080 .070	De
DL20ac	X			.040 .015	.023 .015	.070 .030	.014 .008	.990 .942	.302 max	.110 .090	.320 .290		.165 .125		.050 .005	Dh

30. OUTLINE DRAWINGS



Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL22a		X	5.08 max	.51 min	.38 .58	.89 1.65	.21 .35	26.67 28.19	7.62 9.91	2.29 2.79	9.91 10.41		2.54 min	0° 15°	1.14 ref	Dp
DL22b		X	4.83 max	.39 1.02	.41 .51	1.40 1.65	.20 .31	26.93 30.48	9.53 10.16	2.29 2.79	9.91 10.67		3.18 4.08	0° 15°	1.78 min	Dp
DL22c	X		.200 max	.020 min	.015 .020	.040 .065	.008 .012	1.13 max	.320 .380	.100	.390 .410		.090 min	15° max		Dh
DL22d		X	5.1 max	.50 min	.35 .55	1.5 max	.15 .35	27.5 28.1	9.2 max	2.54	9.96 10.36		3.2 3.8		1.2	Dc

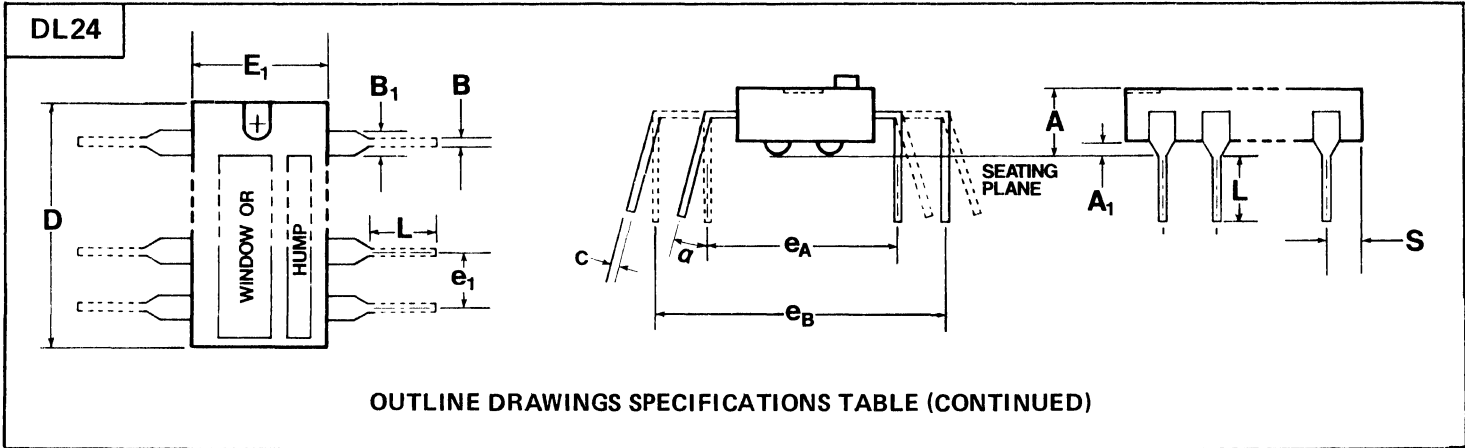
Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL24a	X		.200 max	.020 .070	.016 .020	.050 .060	.008 .012	1.29 max	.515 .525	.090 .110	.590 .620		.125 min		.060 .100	Dg
DL24b	X		.170 .255	.020 .055	.015 .023	.076 max	.008 .014	1.235 1.290	.560 max	.090 .110	.590 .610		.120 .140		.060 .100	Dg
DL24c	X			.020 .060	.015 .023	.045 .065	.009 .011	1.235 1.290	.510 .540	.090 .110	.590 .620		.125 min			Dg
DL24d	X		.248 max	.020 min	.015 .022	.066	.009	1.299		.100	.625 max		.100 .140		.100 max	Dg
DL24e	X		.200 max	.020 min	.015 .021	.070 max	.008 .014	1.31 max	.550 nom	.100			.125 min	0° 15°	.095 max	Dp
DL24f	X		.180 max	.020	.019		.010	1.25	.520	.100	.600		.125			Dc
DL24g	X		.170 min	.020	.018 .022		.010	1.25	.525 .535	.100	.585 .595		.125			Dc
DL24h	X		.220 max	.050 typ	.015 .021		.011	1.24 1.28		.100	.600		.125			Dc
DL24i	X		.197 max	.020 min			.009 .014	1.198 max		.100 typ	.600 typ		.118 min			Dc
DL24j	X		.200 max	.015 min	.015 .020		.009 .011	1.30 max	.515 .580	.100	.625 max		.100 .150			Dc
DL24k	X		.217 max	.028 min				1.24 max	.551 max	.090 .110	.588 .612		.110 min			Dc
DL24m	X			.025	.018 .020			1.24	.540	.100	.598 .602		.125 min			Dc
DL24n	X		.160 .220	.020 .050	.016 .020		.008 .012	1.23 1.27	.500 .540	.100			.090 .160			Dc

30. OUTLINE DRAWINGS

DL24																
OUTLINE DRAWINGS SPECIFICATIONS TABLE (CONTINUED)																
Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL24o	X		.185 .205	.030	.015 .020	.040 .065	.008 .012	1.24 1.26	.515 .545	.100 typ	.590 .610		.115 .135	0° 10°	.065 .085	Dp
DL24p	X		.160 .200	.020 .030	.016 .020	.050 .060	.008 .012	1.23 1.27	.500 .540	.090 .110	.600 .610		.115 .135	5° 15°		Dp
DL24q	X		.180 .200	.020 .040	.014 .020	.040 .060	.008 .012	1.235 1.265	.540 .560	.095 .105	.580 .600		.120 .140	0° 10°	.070 .080	Dp
DL24r	X		.200 max	.020	.014 .020		.009 .011	1.245 1.255	.525 .535	.090 .110	.585 .595		.125 min			Dp
DL24s	X		.200 max	.020	.018 .022	.059	.009	1.259 max		.100	.625 max		.120 .153		.086 max	Dp
DL24t	X		.120 .165	.020 min	.015 .020		.008 .011	1.23 1.29	.515 .545	.090 .110	.600 nom		.125 min			Dj
DL24u	X		.120 .180	.020 .050	.015 .020	.040 .060	.008 .011	1.14 1.29	.500 .560	.100 typ	.590 .610		.115 .165	10° max		Dj
DL24v	X		.170 .180	.015 min	.015 .021		.009 .015	1.27 max	.535 .545	.100	.600 .620		.125 min		.060 .080	Dh
DL24w	X		.188	.031	.017		.009	1.259	.499	.100	.599		.110			Dh
DL24x	X		.196 .215	.040 .059	.015 .023		.008 .012	1.185 1.216	.598	.090 .109	.600		.118 .141			Dh
DL24y	X		.260 max	.040 .060	.016 .020		.008 .012	1.29 max	.550 max	.090 .110	.610 max		.125 min		.060 .080	Dj
DL24z		X	4.19 5.08	.510 1.14	.38 .53	1.12 1.32	.250 .380	31.50 31.88	13.84 14.10	2.29 2.79	14.99 15.49		3.05 3.43		1.65 2.16	Dh
DL24aa		X	3.81 5.72	.510 1.4	.38 .58	.760 1.78	.200 .360	31.37 32.77	14.22 max	2.29 2.79	14.99 15.75		3.18 4.19		1.52 2.49	Dh
DL24ab	X		.200 max	.015 .060	.014 .023	.030 .070	.008 .015	.896 max	.220 .310	.100	.290 .320		.125 .200	0° 15°	.098 max	Dh
DL24ac	X		.200 max	.015 .060	.014 .023	.030 .070	.008 .015	.896 max	.220 .310	.100	.290 .320		.125 .200	0° 15°	.098 max	Dr
DL24ad	X		.200 max	.015 .060	.014 .023	.030 .070	.008 .015	.896 max	.220 .310	.100	.290 .320		.125 .200		.098 max	Da
DL24ae		X	.120 .155	.020 .040	.015 .020	.035 .055	.008 .012	1.155 1.215	.500 .560	.100	.585 .615		.115 .145	15° max	.035 .055	Dj
DL24af		X	5.08 max	.51 max	.38 .508	1.77 max	.20 .30	30.1 32.6	14.0	2.54	15.24		3.1 3.9	0° 15°		Dc
DL24ag	X		.150 .273	.025 .063	.016 .020	.045 .065	.009 .011	1.23 1.29	.515 .575	.090 .110	.600 nom		.100 .200		.040 .100	Dp
DL24ah	X		.165 .185	.020 min	.016 .020	.045 .065	.009 .011	1.24 1.26	.540 .560	.090 .110	.600 nom		.115 .135		.065 .090	Dp
DL24ai	X		.155	.025	.018	.051	.009	1.228 max	.551 max	.100	.600		.129			Dp
DL24aj	X		.200 max	.035	.017	.051	.009	1.225	.584	.100	.600		.129			Db
DL24ak			.160 .200	.020 .030	.016 .020	.050 .060	.008 .012	1.23 1.27	.500 .540	.090 .110	.600 .610		.115 .135	5° 15°		Dp
DL24am			.165 .200	.020 .040	.014 .020	.040 .065	.008 .012	1.235 1.265	.540 .560	.100 typ	.600 typ		.115 .140	15° max	.065 .090	Dp
DL24an		X	4.06 5.32	.508 min	.406 .508	1.14 1.65	.22 .28	1.143 1.651	9.65 nom	2.29 2.79	10.16 nom		2.92 3.43			Dp

(Continued)

30. OUTLINE DRAWINGS



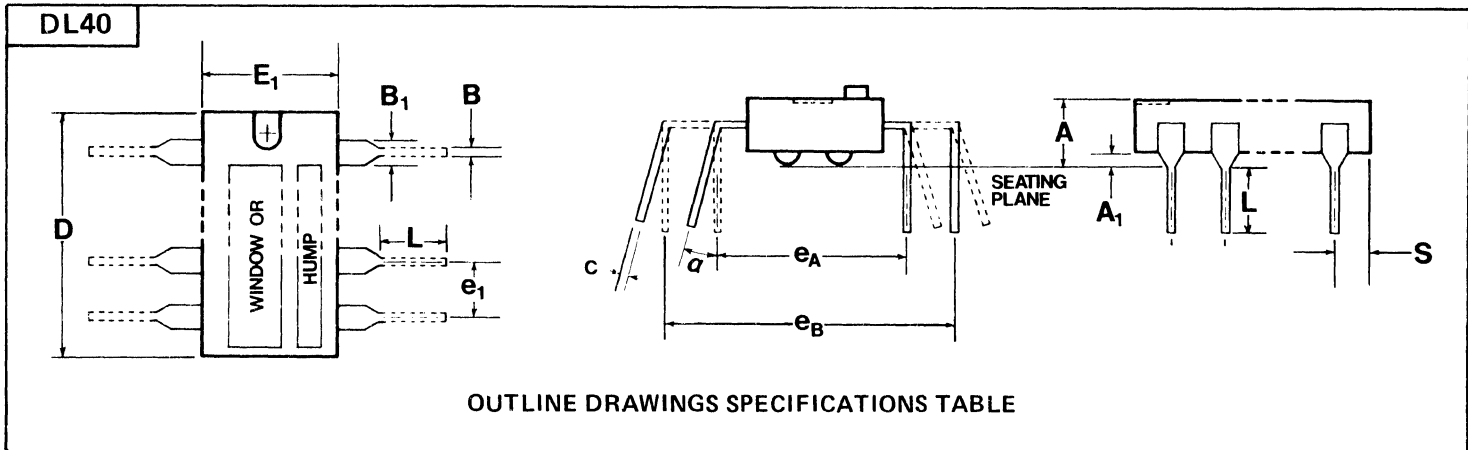
(Continued)

30. OUTLINE DRAWINGS

DL24																
OUTLINE DRAWINGS SPECIFICATIONS TABLE (CONTINUED)																
Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL24bi		X	5.3 max	0.51 min	<u>0.41</u> 0.51	1.65 max	<u>0.23</u> 0.28	32 max		2.54	12.7 max		<u>2.92</u> 3.43		2.0 max	Dh
DL24bj		X	5.08 max	<u>.38</u> 1.52	<u>.36</u> .58	<u>.76</u> 1.78	<u>.20</u> .35	32.7 max	<u>5.5</u> 7.8	2.54 Bsc	<u>7.3</u> 8.1		<u>3.1</u> 5.0	15°	2.0 max	Dh
DL24bk		X	5.08 max	<u>.25</u> 1.65	<u>.41</u> .51	<u>1.4</u> 1.6	<u>.20</u> .31	31.4 32.7	<u>6.0</u> 7.3	<u>2.2</u> 2.7	<u>7.1</u> 8.1		<u>3.0</u> 6.2	16°	2.54 max	Dc
DL24bl		X	5.72 max	<u>.38</u> 1.91	<u>.41</u> .51	<u>.76</u> 1.27	<u>.20</u> .30	32.7 max	<u>12.5</u> 15.2	<u>2.2</u> 2.7	<u>14.9</u> 15.7		3.8 min	15°	2.0 max	Db
DL24bm		X	5.5 max	0.5 min	<u>0.40</u> 0.60	<u>1.10</u> 1.50	<u>0.20</u> 0.35	30.9 31.6	<u>12.85</u> 13.15	<u>2.29</u> 2.79	15.24		2.8 min			Dp

DL28																
Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL28a	X			.020 min		.021 max	.011 max	1.40 typ	.500 typ	.100 typ	.600 typ		<u>.125</u> .185			Dj
DL28b	X		.175					1.60					.17		.15	Dk
DL28c	X		<u>.175</u> .205	<u>.060</u> .090	<u>.016</u> .020	.045	<u>.008</u> .012	1.40	.550 max	.100	.600		.135	8° typ		Dj
DL28d	X		<u>.145</u> .155	.020 min	<u>.015</u> .021		<u>.009</u> .015	1.47 max	<u>.545</u> .555	.100	<u>.600</u> .620		.125 min		<u>.060</u> .090	Dh
DL28e	X		<u>.145</u> .155	.020 min	<u>.015</u> .021		<u>.009</u> .015	1.47 max	<u>.490</u> .550	.100 typ	<u>.600</u> .620		.125 min		<u>.060</u> .090	Dh
DL28f	X		<u>.200</u> .230	<u>.035</u> .055	<u>.015</u> .021		<u>.009</u> .015	1.43 1.49	<u>.490</u> .550	.100 typ	<u>.590</u> .610		.135 .155		.100 max	Dh
DL28g	X		<u>.155</u> .195	.015 min	<u>.014</u> .023	<u>.040</u> .065	<u>.008</u> .015	1.43 1.47	<u>.510</u> .530	<u>.090</u> .110	.625 max		.100 min			Dh
DL28h		X	5.0 max	1.3 max	<u>.35</u> .65	<u>1.25</u> 1.55	<u>.15</u> .35	37.4 max	14.2 max	<u>2.29</u> 2.79	<u>15.1</u> 15.3		3.2 min			Dc
DL28i		X	5.08 max	.50 min	<u>.38</u> .54	1.52 nom	<u>.20</u> .36	36.6 max		2.54 typ	<u>14.98</u> 15.50		3.17 min	0° 15°	<u>.76</u> 1.78	Dp
DL28j	X		.175	.025 min	.033 typ	.060 typ		1.36	.540	.100 ref	<u>.598</u> .602		.125 typ			Dh
DL28k		X	5.33 5.59	1.14 min	.457		<u>.229</u> .381	37.08 max	<u>13.18</u> 13.34	2.54 typ	<u>15.24</u> 15.75		3.68 min		1.52 2.29	Dh
DL28m	X		.160 max	.020 min	<u>.014</u> .020		<u>.008</u> .015	1.33 1.47	<u>.475</u> .530	<u>.090</u> .110	<u>.590</u> .650		.090 min	0° 20°		Dd
DL28n	X		.170	.020 min	.018 typ	<u>.058</u> .062	.010	1.45	.540 nom	<u>.090</u> .110			.125 min	0° 15°		Dp
DL28o		X	5.97 max	<u>.381</u> 1.52	<u>.38</u> .58	<u>1.14</u> 1.52	<u>.20</u> .38	34.54 max	<u>13.21</u> 13.97	<u>2.29</u> 2.79	<u>14.48</u> 15.24		2.54 4.06		-1.52	Dp
DL28p		X	5.1 max	0.5 min	<u>0.45</u> 0.55	1.5 max		35.5 35.9	<u>13.70</u> 14.00	2.54	<u>15.24</u> 16.44				1.3	Dc
DL28q		X	<u>2.1</u> 3.6	<u>.64</u> 1.27	<u>.43</u> .56	1.27 Ref	<u>.20</u> .30	35 36		2.54	<u>14.7</u> 15.7		<u>3.1</u> 4.4	7°	<u>.76</u> 1.78	Da
DL28r		X	<u>3.1</u> 6.3	<u>.51</u> 1.7	<u>.40</u> .50	<u>.72</u> 1.7	<u>.20</u> .30	35.5 37.8	<u>13.0</u> 14.7	2.54	15.2		<u>2.54</u> 5.0	15°	<u>1.02</u> 2.54	Dh

30. OUTLINE DRAWINGS



OUTLINE DRAWINGS SPECIFICATIONS TABLE

Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL40a	X		.130 max	.020 min	.018 typ		.011 max	2.00 typ	.500 typ	.100 typ	.600 typ		.125 min .165			Dk
DL40b	X		.225 max	.020 min .060	.016 typ .020	.050 typ	.008 min .012	2.020 max	.590 max	.090 typ .110	.600 ref		.125 min		.040 min .060	Db
DL40c	X		.160 max	.020 min	.016 typ .021		.008 min .012	2.010 min 2.020	.530 min .540	.100 typ	.600		.128 min .140		.067	Dh
DL40d	X				.015 min .019		.010 min .012	2.00	.582 min .598	.100	.600		.125 min			Db
DL40e	X		.150 min .225	.015 min .060	.016 min .020	.045 min .065	.009 min .011	2.02 min 2.10	.510 min .550	.090 min .110	.600 min .630		.120 min .150		.050	Dp
DL40f		X	3.94 min 5.08	.51 min 1.02	.36 min .56	1.02 min 1.52	.20 min .38	51.69 min 52.45	13.72 min 14.22	2.54 min 2.79	15.24 min 16.00		2.92 min 3.43	0° min 15°	1.65 min 2.16	Dp
DL40g		X	.160 min typ	.025 min typ	.457 min .508	1.47 min 1.58	.28 min .33	51.82	13.72	2.54			4.06 min	5°	1.78 typ	Dh
DL40h		X	4.8		.50	1.5		52.0	13.7	2.54	15.24		3.3	0° min 15°		Dp
DL40i	X		.175	.020 nom	.018 min .062		.010	2.04	.540 nom	.090 min .110			.125 min	0° min 15°		Dp
DL40j	X		.155 max	.040 min	.016 min .018	.040 typ		2.00 ref	.590 min .610	.100 typ			.145 min .165	0° min 15°		Db
DL40k	X		.190 max	.020 min	.018 min typ	.050 typ		2.05 ref	.495 min .505	.100 typ	.610 max		.135 min .145			Dd
DL40m	X		1.75	.025 typ	.018 typ	.060		2.05	.540	.100	.600		.130	7° min 9°	.075	Dh
DL40n		X	5.08 max	0.51 min 1.52	0.36 min 0.58	0.76 min 1.78	0.20 min 0.38	53.09 max	12.95 min 15.75	2.54 bsc	13.21 min 16.00		3.18 min 5.08	0° min 15°	2.49 max	Dg
DL40o	X		.200 max	.015 max	.021 max	.060 typ	.013 max	2.08 max	.545 max	.100 typ	.670		.170 max	0° min 15°		Dc
DL40p	X				.02 max		.012 max	2.000	.62 max	.100			.125 min			Db

DL42																
Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL42a		X	4.3 min 4.7	.70 min 1.3	.35 min .65	1.25 min 1.55	.10 min .40	52.9 min 53.5	13.2 min 13.6	2.29 min 2.79	15.09 min 15.39		3.0 min 4.0			Dc

30. OUTLINE DRAWINGS

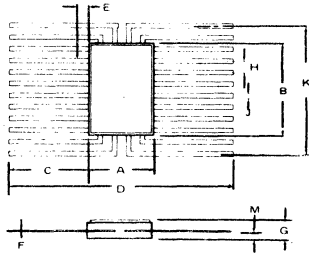
DL48																
OUTLINE DRAWINGS SPECIFICATIONS TABLE																
Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL48a	X		.115 . <u>.155</u>		.016 . <u>.020</u>		.009 . <u>.012</u>	2.376 <u>2.424</u>	.580 . <u>.600</u>	.095 . <u>.105</u>	.600 . <u>.620</u>		.125 min			Db
DL48b	X		.200 max	.020 min	.015 . <u>.023</u>		.010	2.392 <u>2.408</u>	.530 . <u>.600</u>	.100	.600 . <u>.620</u>		0.100 <u>0.200</u>		0.05 max	Db
DL48c	X		.165 max	.060 max	.020 max	.045 max	.012 max	2.424 max	.6 max	.105 max	.61 max		.200 max		.066 max	Db

DL64																
Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL64a ⁵	X		.260 typ	.045 . <u>.075</u>	.015 . <u>.019</u>		.010 . <u>.012</u>	3.17 <u>3.23</u>	.790 . <u>.810</u>	.100 typ	.890 . <u>.910</u>		.125 min	0° <u>15°</u>		Db
DL64b	X			.070 . <u>.025</u>	.023 . <u>.015</u>	.065 . <u>.035</u>	.014 . <u>.008</u>	3.235 <u>3.180</u>	.910 . <u>.880</u>	.110 . <u>.090</u>	.950 . <u>.890</u>		.150 . <u>.125</u>			Db
DL64c		X	4.72 max		.48 max		.30 max	81.28	20.32	1.40 max	22.86		4.06 max	15° max	1.78 max	Db
DL64d		X	6.32 max		.48 max		.30 max	81.28	20.32	1.40 max	22.86		4.06 max	15° max	1.78 max	Db

5. Pkq has built-in Heatsink.

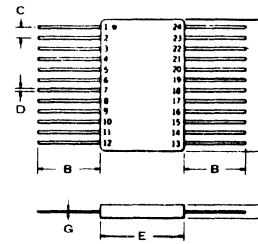
30. OUTLINE DRAWINGS

FP59



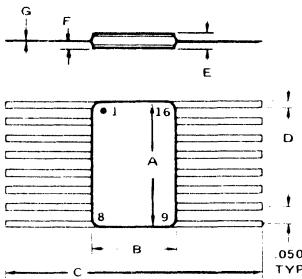
	A	B	C	D	E	F	G	H	J	K	M
FP59	.250	.375	.495			.0035	.054	.050	.017		
FP59a	.270	.390	.510			.0035	.054	.050	.017		
	MAX	MAX				.0045	.064				
FP59b	.245	.370	.330	.340	.020	.004	.020	.040	.015	.540	.020
	.275	.395	.370	.360		.006	.060	.060	.019	.560	.031
FP59c	.245	.370	.330	.340	.020	.003	.055	.040	.015	.540	.020
	.275	.395	.370	.360		.006	.065	.060	.019	.560	.040

FP66



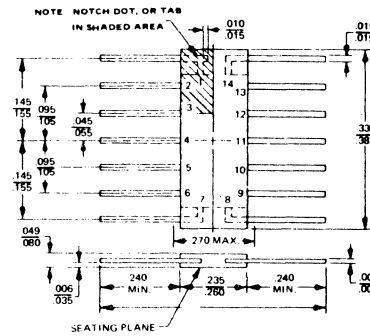
	A	B	C	D	E	F	G
FP66	.590	.250	.050	.015	.370	.050	.004
	.640	.350		.019	.420	.075	.006
FP66a	.620	.250	.050	.015	.365	.065	.004
	MAX	.350		.019	.395	.090	.006

FP79

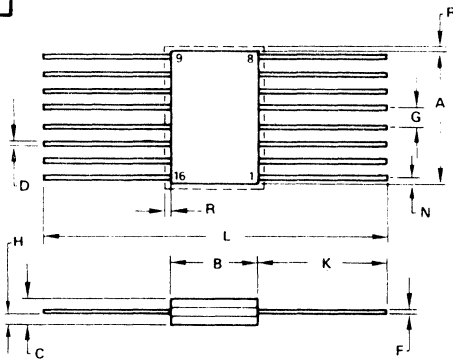


	A	B	C	D	E	F	G
FP79	.365	.248	.930	.018	.047		.003
	.366	.275	.960	.021	.067		.005
FP79a	.370	.245	.940	.015	.040	.011	.003
	.395	.275	.960	.019	.070	.039	.005
FP79b	.380	.250	.900	.014	.030	.010	.003
	.410	.280	.960	.019	.070	.035	.006

FP80



FP85

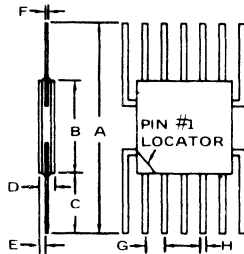


DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	9.40	10.16	0.370	0.400
B	6.22	6.60	0.245	0.260
C	1.52	2.03	0.060	0.080
D	0.38	0.48	0.015	0.019
F	0.08	0.15	0.003	0.006
G	1.27 BSC		0.050 BSC	
H	0.64	0.89	0.025	0.035
K	6.35	9.40	0.250	0.370
L	18.92		0.745	
N		0.51		0.020
R		0.38		0.015

NOTES
 1 LEAD NO. 1 IDENTIFIED BY TAB OR LEAD OR DOT ON COVER
 2 LEADS WITHIN 0.13 mm (0.005) TOTAL OF TRUE POSITION AT MAXIMUM MATERIAL CONDITION.

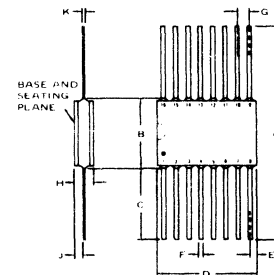
FP87

DOTTED SECTION FOR FP87a ONLY.



	A	B	C	D	E	F	G	H
FP87	.750	.260	.250	.070	.025	.004	.050	.016
		MAX	MIN	MAX		.006		.019
FP87a	.750	.275		.080	.020	.004	.045	.015
	.770	MAX		MAX	.040	.006	.055	.019

FP88



	A	B	C	D	E	F	G	H	J	K	REMARKS
FP88	.340	.285	.350	.015	.019	.015	.040	.350	.020	.030	NO NOTCH
	.360	.275	.370	.013	.025	.013		.060	.040	.020	
FP88a	.340	.300		.015	.010	.015	.045	.050	.020	.020	NO NOTCH
	.360	MAX		.019	.025	.019	.055	.060	.040	.025	
FP88b	.380	.275		.015	.007	.015	.045	.040	.020	.020	NO NOTCH
	.390	MAX		.019	.013	.019	.055	MAX	.045	.025	
FP88c	.450	.280		.015	.008	.015	.045	.065	.010	.020	NO NOTCH
	.500	MAX		MIN	.013	.025	MAX	.070	.020	.020	

30. OUTLINE DRAWINGS

FP93

INDEX AREA
NOTCH OR DOT

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
FP93	.384	.300	.050	.010	.012	.700	.250	.250	.003	.040	.010															
	.434	MAX		.020	.012				.006	.040	.020															
FP93a	.360	.300	.045		.015	.700	.250	.250	.003	.040	.010															
	.400	MAX	.055		.015	.700	.250	.250	.006	.040	.020															
FP93b	.440	.300	.050		.015	.740	.250	.245	.003	.045	.009															
	MAX	MAX			.020	.740	.245	.245	.006	.045	.020															
FP93c	.370		.050		.015	.700	.245	.245	.004	.060	.024															
	.410				.015	.700	.230	.230	.006	.060	.025															

FP97

BASE AND SEATING PLANE

	A	B	C	D	E	F	G	H	J
FP97	.390	.013	.840	.010	.270	.275	.050	.003	.020
	MAX	.019	.860	.025	.325	MAX	TYP	.006	.040
FP97a	.337	.019	.840	.010	.270	.275	.050	.003	.020
	.350	.019	.860	.025	.325	MAX	TYP	.006	.040
FP97b	.385	.015	.750	.030	.247	.275	.045	.004	.020
	MAX	.019	.770	.045	MAX	MAX	.055	.006	.040
FP97c	.337	.015	.840	.010	.292	.275	.045	.004	.020
	.350	.019	.860	.025	TYP	MAX	.055	.006	.040

FP98

SEATING PLANE
INDEX DOT

	A	B	C	D	E	F	G	H	J	K	L	M	N
FP98	.003	.310		.940	.275	.050	.020	.210	.371	.025	.050	.013	
	.006	.350		.960	MAX	.080	.040	.350	.400	MAX	TYP	.019	
FP98a	.003	.275	.245	.850	.300	.050	.015	.275	.375	.026	.050	.015	
	.006	.325	.275	.850		.080	.035	.325	.395	MAX	TYP	.019	
FP98b	.003	.310	.247	.940	.300	.050	.020	.310	.371	.010	.050	.015	
	.006	.350	.285	.960		.080	.040	.350	.400	.025	TYP	.019	

FP101

SEATING PLANE

	A	B	C
FP101	.060	.371	.247
	.075	.409	.283
FP101a	.049	.371	.247
	.090	.409	.283
FP101b	.055	.371	.247
	.080	.400	.285

FP103

SEATING PLANE

FP105

SEATING PLANE

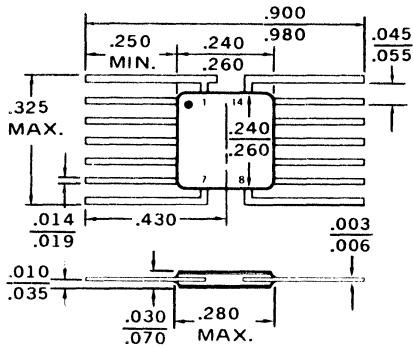
	A	B	C
FP105	.015	.019	.045
	.003	.045	.065

FP107

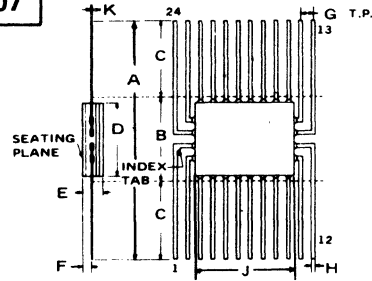
SEATING PLANE

30. OUTLINE DRAWINGS

FP106

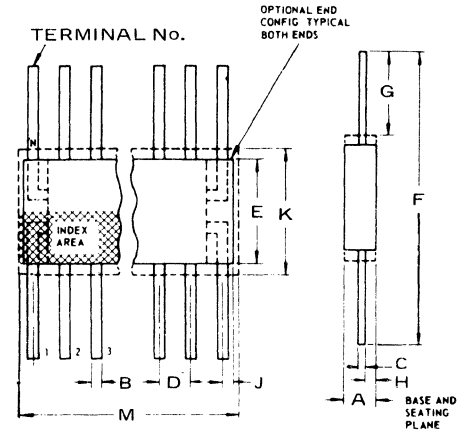


FP107



	A	B	C	E	E	F	G	H	J	K
FP107	.850	.300	.275	.240	.050	.015	.050	.015		.003
	.950		.325	.275	.090	.035		.019		.006
FP107a	.880	.275			.090	.020	.045	.015	.390	.004
	.900	MAX			MAX	.040	.055	.019	MAX	.005

FP109



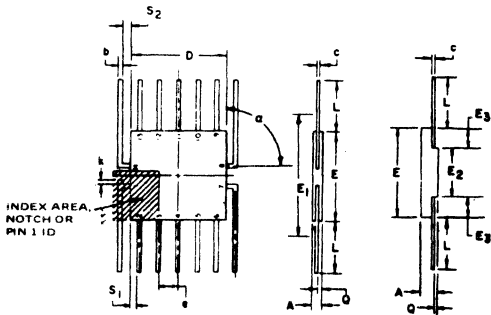
	A	B	C	E	E	F	G	H	J	K
FP109	.025	.025	.004	.030	.117	.220	.085	.010	.200	.370
	.020	.022	.007	.030	.115	.225	.070	.010	.200	.370
FP109a	.025	.025	.004	.030	.117	.220	.085	.010	.200	.370
	.020	.022	.007	.030	.115	.225	.070	.010	.200	.370

NOTES

- 1 Refer to JEDEC Publication No. 13 for Rules for Dimensioning Peripheral Lead Outlines.
- 2 Leads within 0.006" (0.12 mm) radius of True Position (TP) at maximum material condition.
- 3 N is the maximum quantity of lead positions.
- 4 Z and Z₁ determine a zone within which all body and lead irregularities lie.

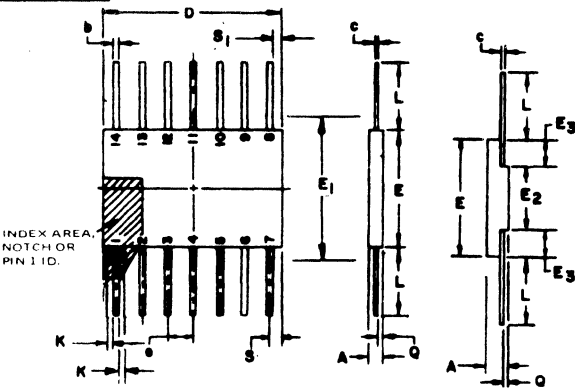
FP115

OPTIONAL CONFIGURATION — IF USED, NO ORGANIC OR POLYMERIC MATERIALS SHALL BE MOLDED TO BOTTOM OF THE PACKAGE TO COVER THE LEADS.



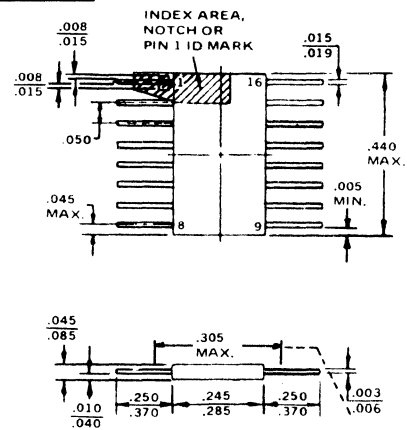
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	.030	.085	.76	2.16
b	.010	.019	.25	.48
c	.003	.006	.08	.15
D		.280		7.11
E	.240	.280	6.10	6.60
E ₁		.280		7.11
E ₂	.125		3.18	
E ₃	.030		.76	
e	.050 BSC		1.27 BSC	
k	.008	.015	.20	.38
L	.250	.370	6.35	9.40
Q	.010	.040	.25	1.02
S		.045		1.14
S ₁	.005		.13	
σ	30°	90°	30°	90°

FP116

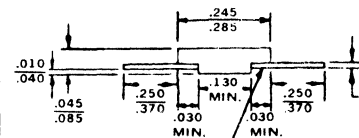


SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	.045	.085	1.14	2.16
b	.010	.019	.25	.48
c	.003	.006	.08	.15
D		.390		9.91
E	.235	.280	5.97	6.60
E ₁		.280		7.11
E ₂	.125		3.18	
E ₃	.030		.76	
e	.050 BSC		1.27 BSC	
k	.008	.015	.20	.38
L	.250	.370	6.35	9.40
Q	.010	.040	.25	1.02
S		.045		1.14
S ₁	.005		.13	

FP117



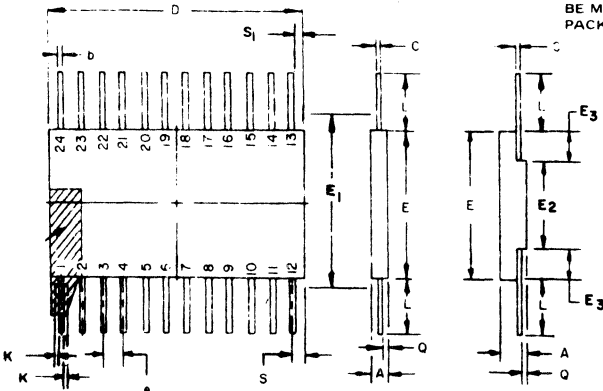
ALLOWS FOR OFF-CENTER LID, MENISCUS AND GLASS OVERRUN



OPTIONAL CONFIGURATION — IF IT IS USED, NO ORGANIC OR POLYMERIC MATERIALS SHALL BE MOLDED TO THE BOTTOM OF THE PACKAGE TO COVER THE LEADS.

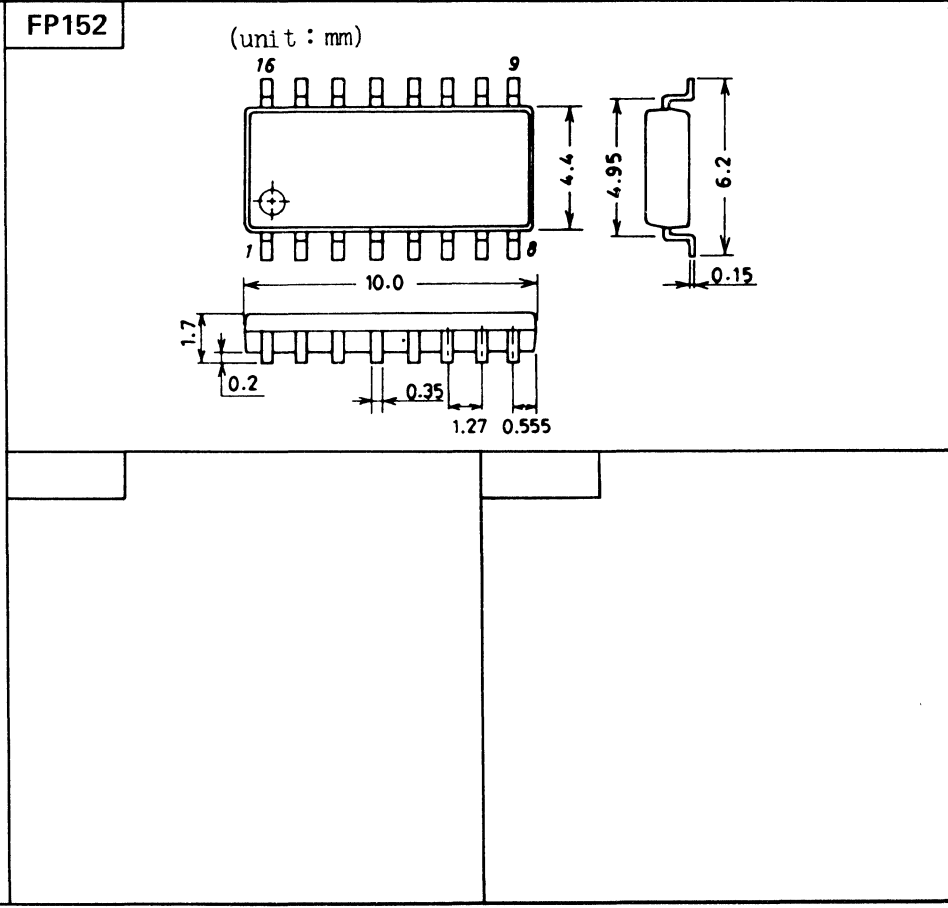
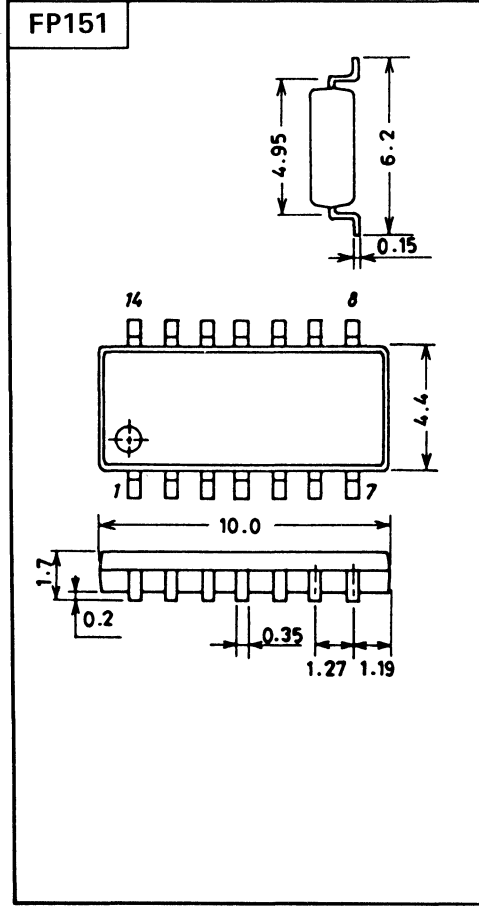
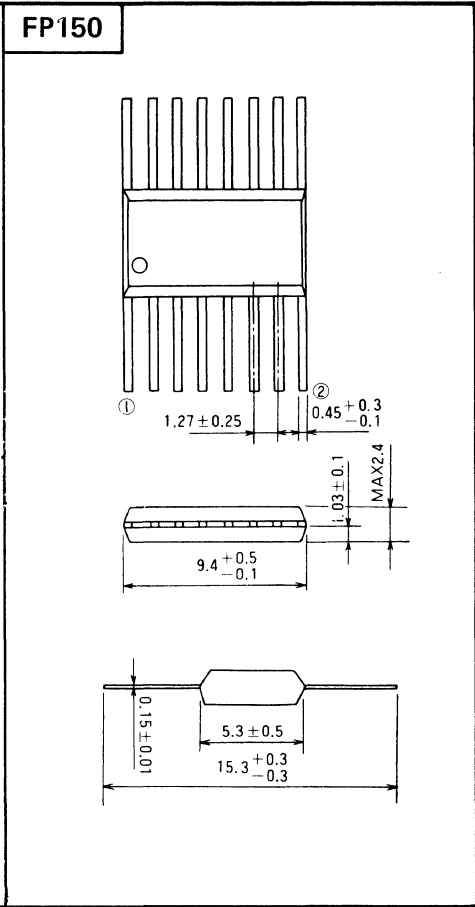
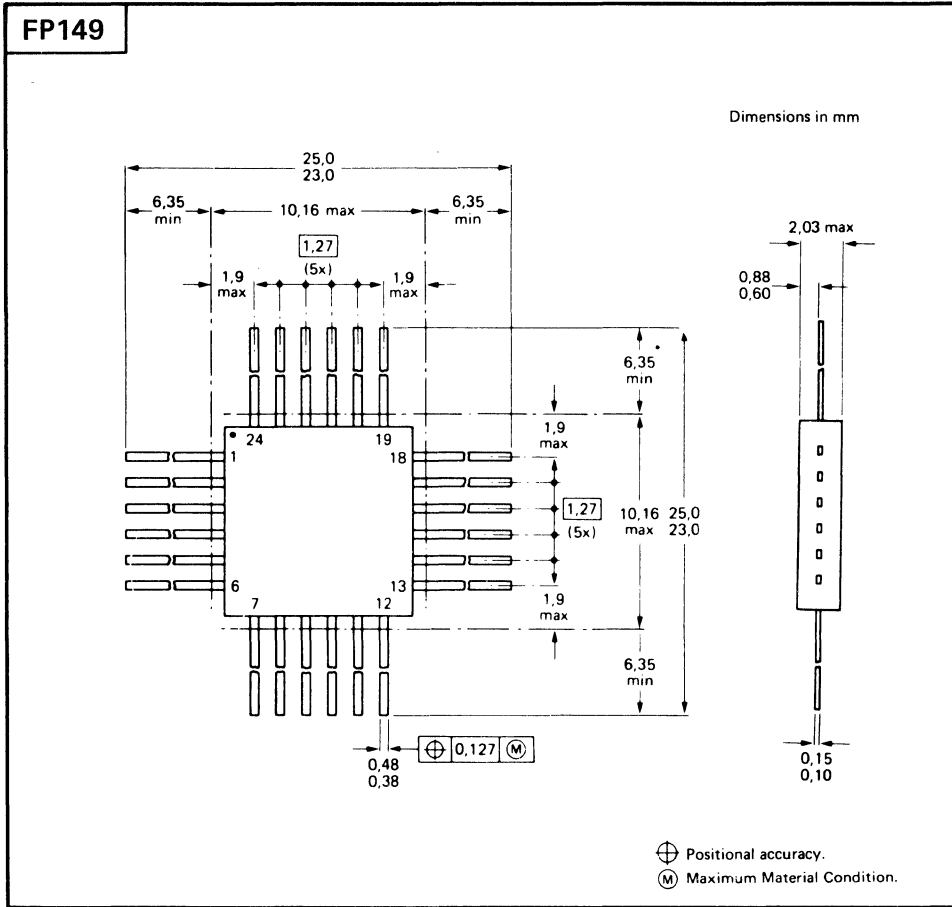
FP118

OPTIONAL CONFIGURATION — IF USED, NO ORGANIC OR POLYMERIC MATERIALS SHALL BE MOLDED TO BOTTOM OF THE PACKAGE TO COVER THE LEADS.



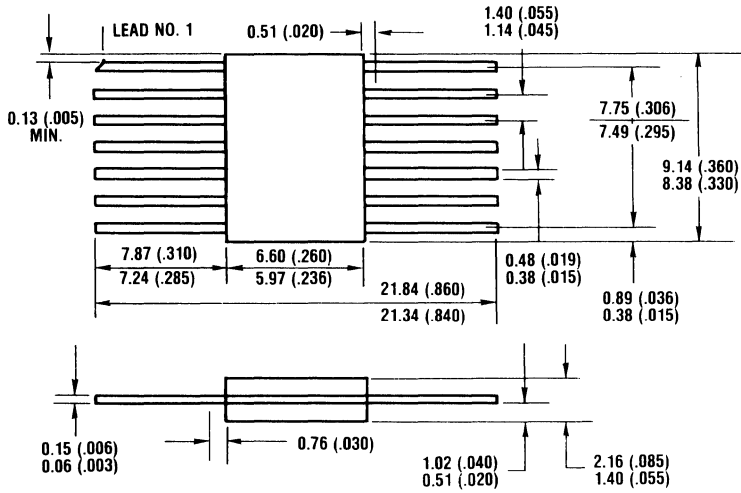
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	.045	.090	1.14	2.29
b	.015	.019	.38	.48
c	.003	.006	.08	.15
D		.440		11.18
E	.360	.440	9.14	11.18
E ₁	.195		4.95	
E ₂	.030		.76	
E ₃				
e	.050 BSC		1.27 BSC	
k	.008	.018	.20	.38
L	.250	.370	6.35	9.40
Q	.010	.040	.25	1.02
S		.045		1.14
S ₁	.005		.13	

30. OUTLINE DRAWINGS

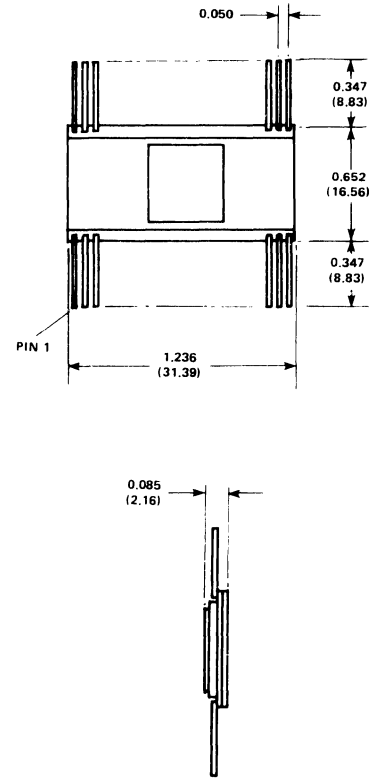


30. OUTLINE DRAWINGS

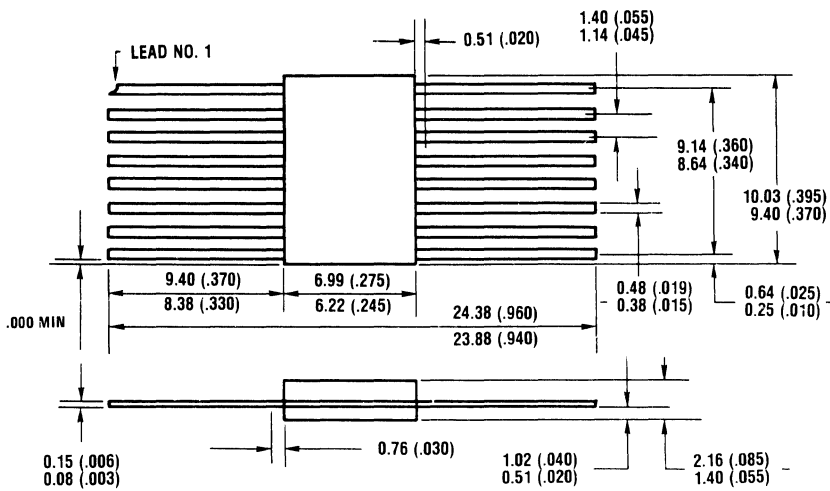
FP153



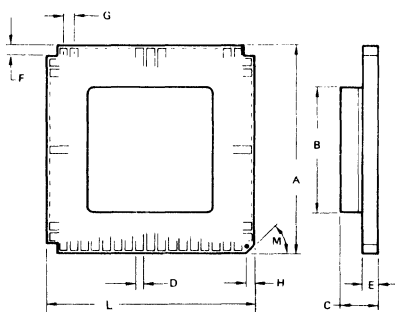
FP156



FP154



LC10

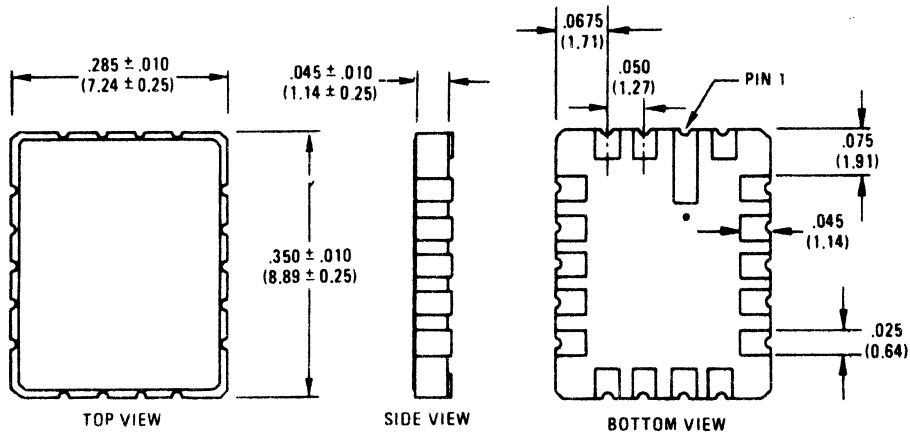


DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	24.00	24.51	0.945	0.965
B	14.22	14.73	0.560	0.580
C		4.57		0.180
D	0.84	0.99	0.033	0.039
E	1.27	1.78	0.050	0.070
F	1.14	1.40	0.045	0.055
G	± 0.27 BSC		± 0.010 BSC	
H	0.89	1.14	0.035	0.045
L	24.00	24.51	0.945	0.965
M	45° NOM		45° NOM	

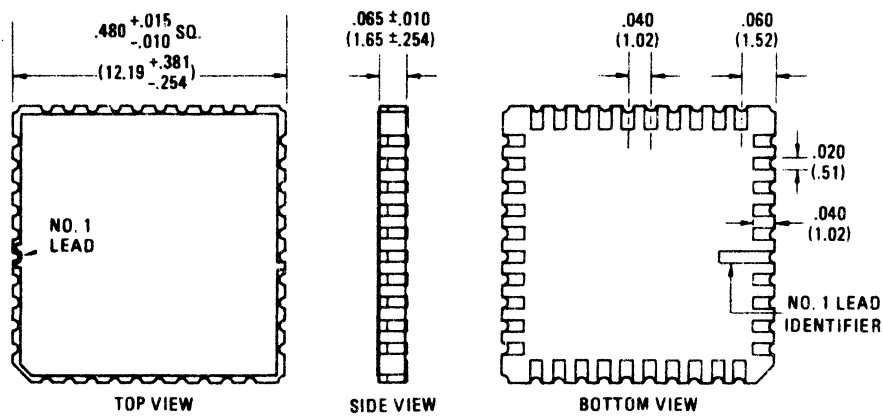
- NOTES:
 1. DIMENSIONS A AND L ARE DATUMS
 2. POSITIONAL TOLERANCES FOR COVER
 ⌀ 0.25 (0.010) A L
 3. DIMENSION D 66 PLACES
 4. DIMENSIONING AND TOLERANCING PER ANSI Y14.5, 1973

30. OUTLINE DRAWINGS

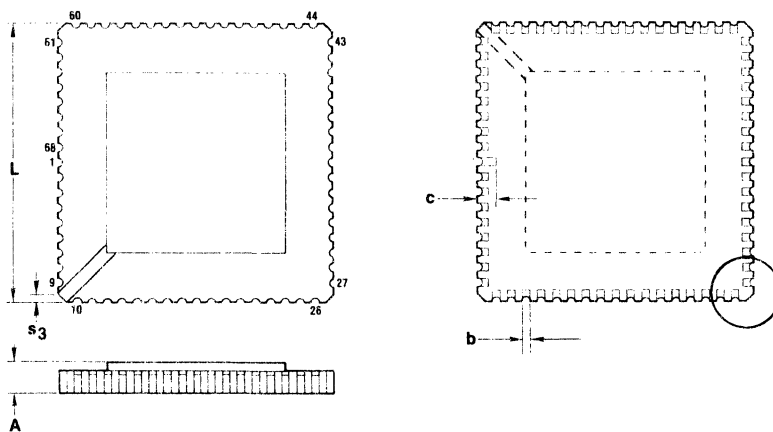
LC11



LC12

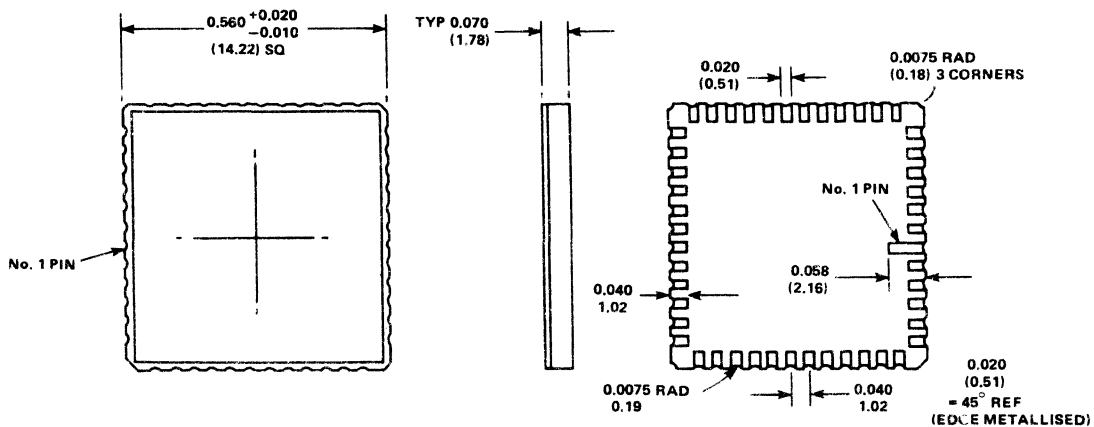


LC13

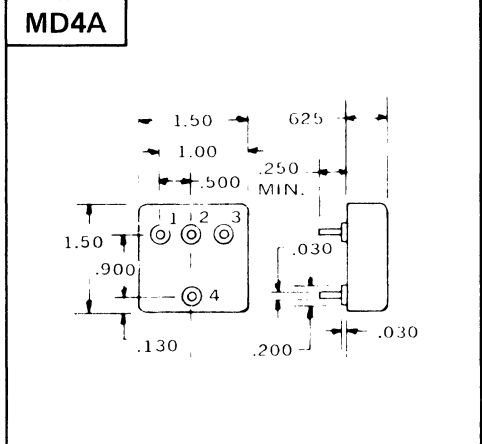
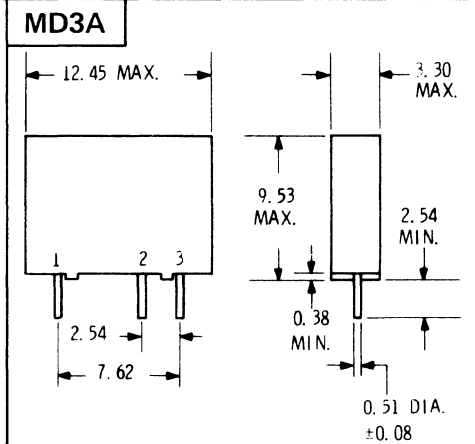
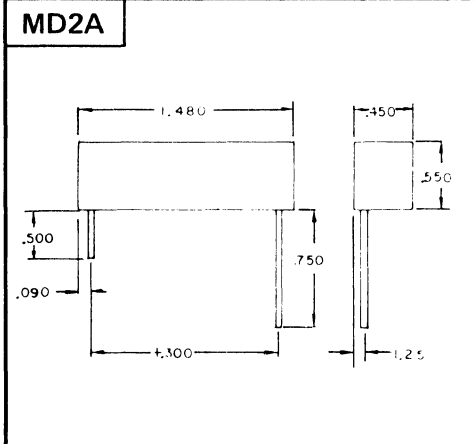
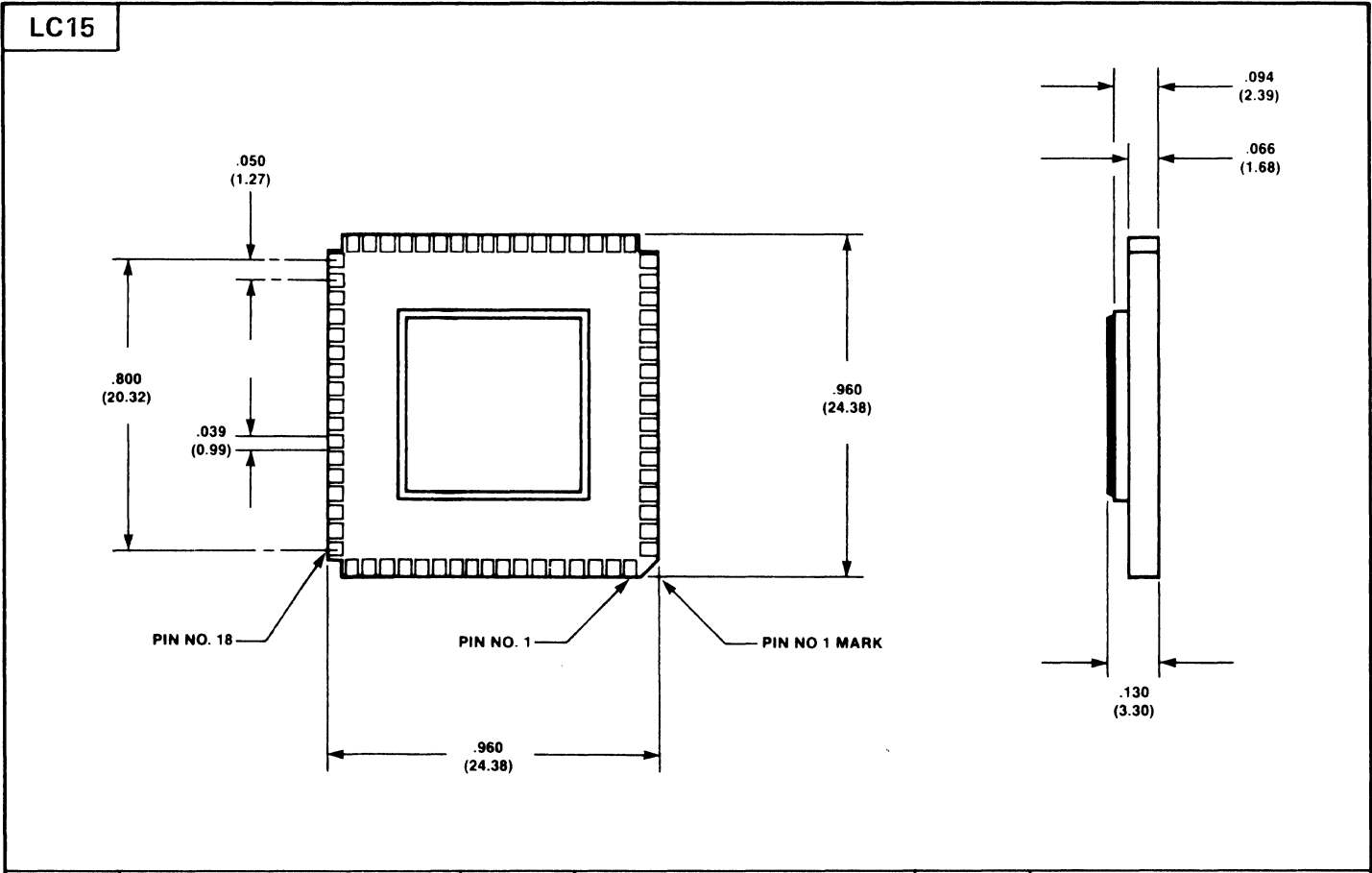


SYM	INCHES/ (MILLIMETERS)	
	MAX	MIN
A	0.101 (2.56)	0.084 (2.13)
b	0.030 (0.76)	0.020 (0.51)
c	0.095 (2.41)	0.075 (1.91)
L	0.965 (24.49)	0.940 (23.86)
s	0.085 (2.16)	0.065 (1.65)
s1	0.058 (1.47)	0.042 (1.07)
s2	0.045 (1.14)	0.035 (0.89)
s3	0.025 (0.64)	0.015 (0.38)
e	0.055 (1.40)	0.045 (1.14)

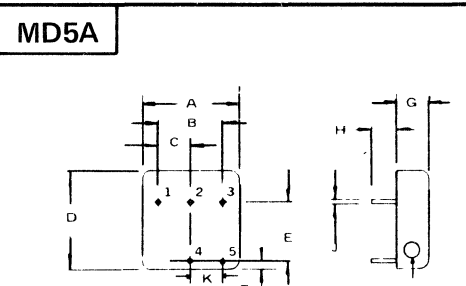
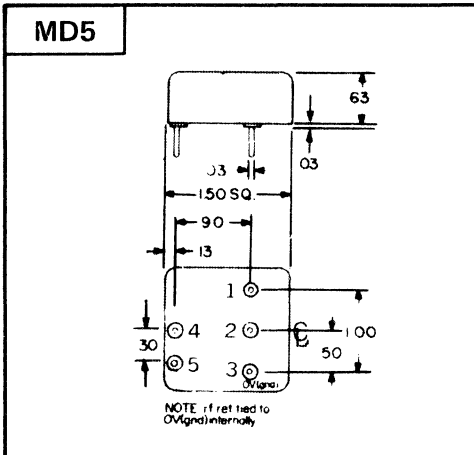
LC14



30. OUTLINE DRAWINGS

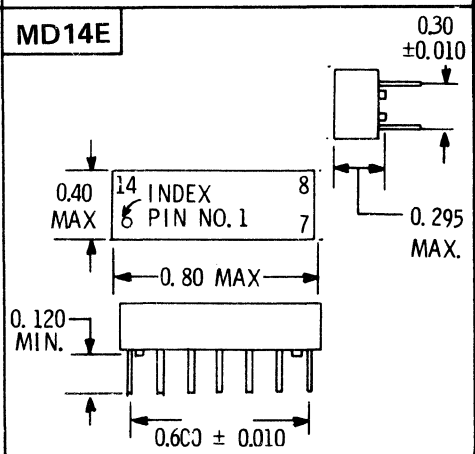
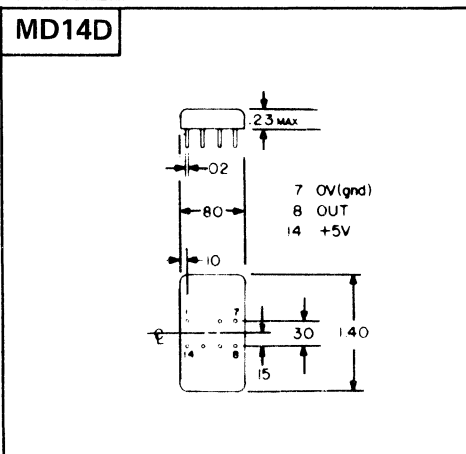
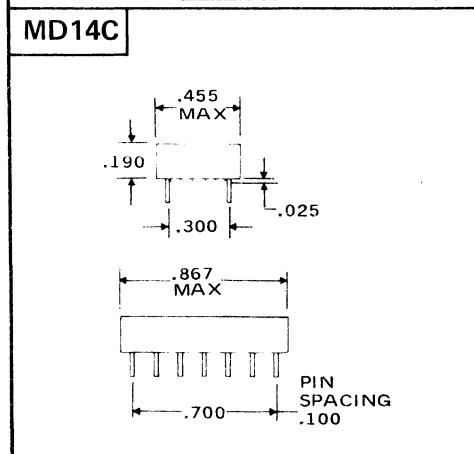
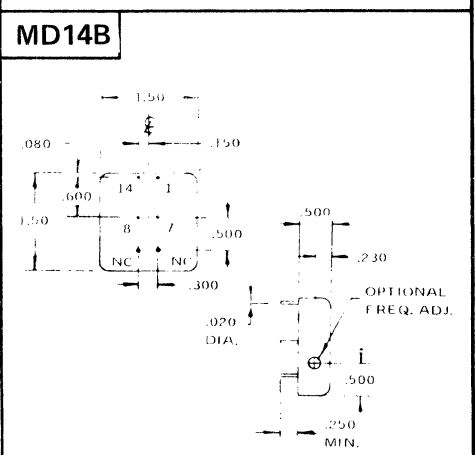
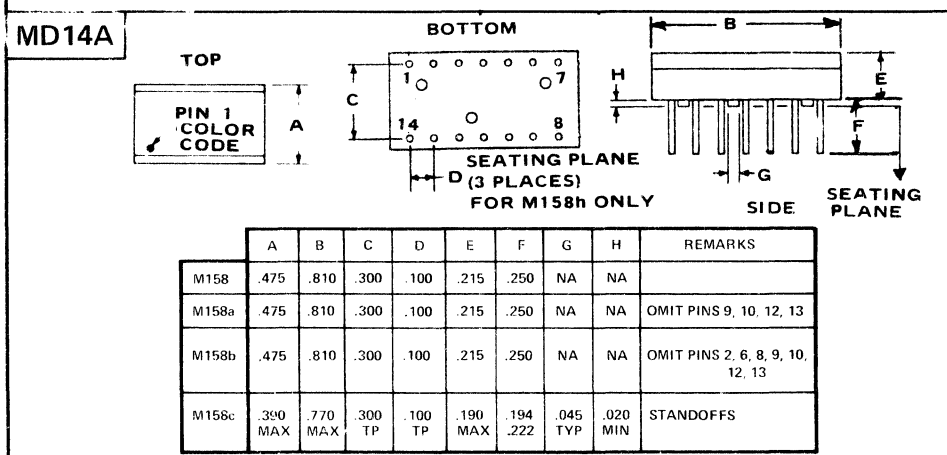
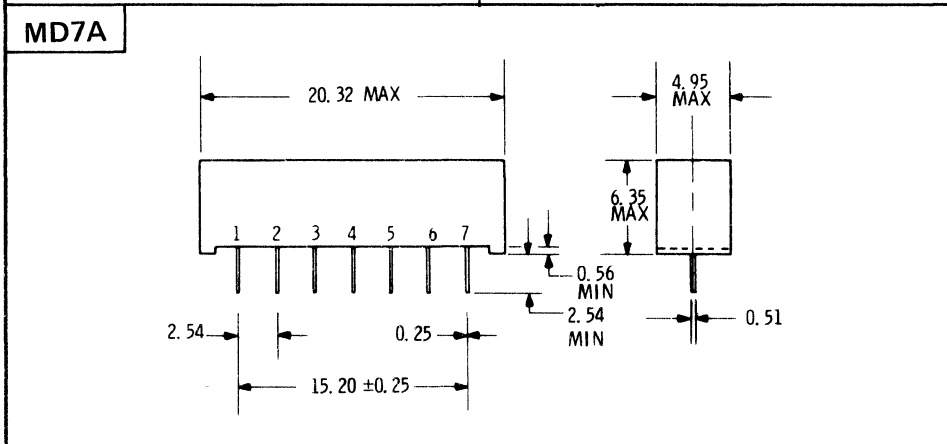


30. OUTLINE DRAWINGS

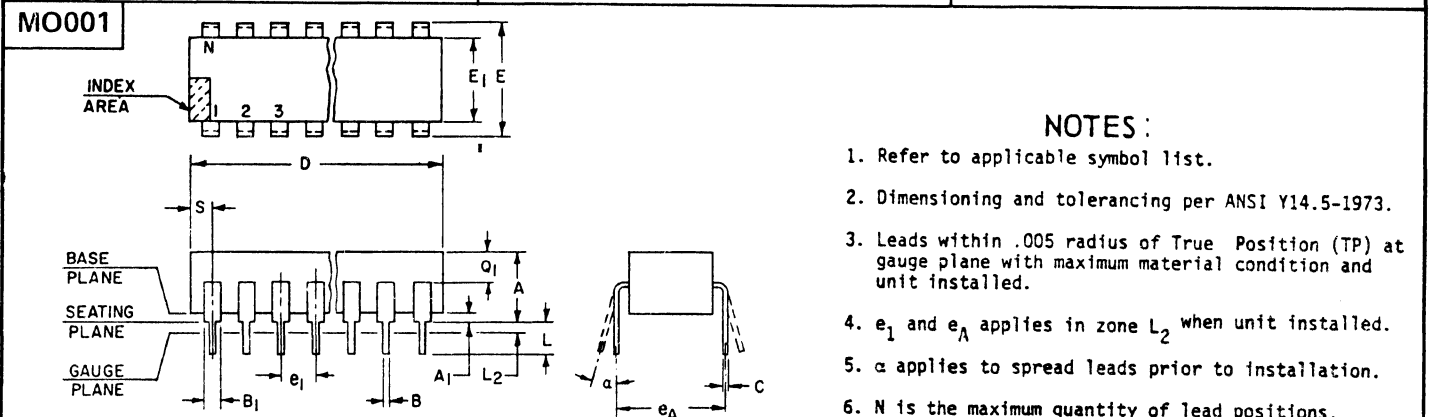
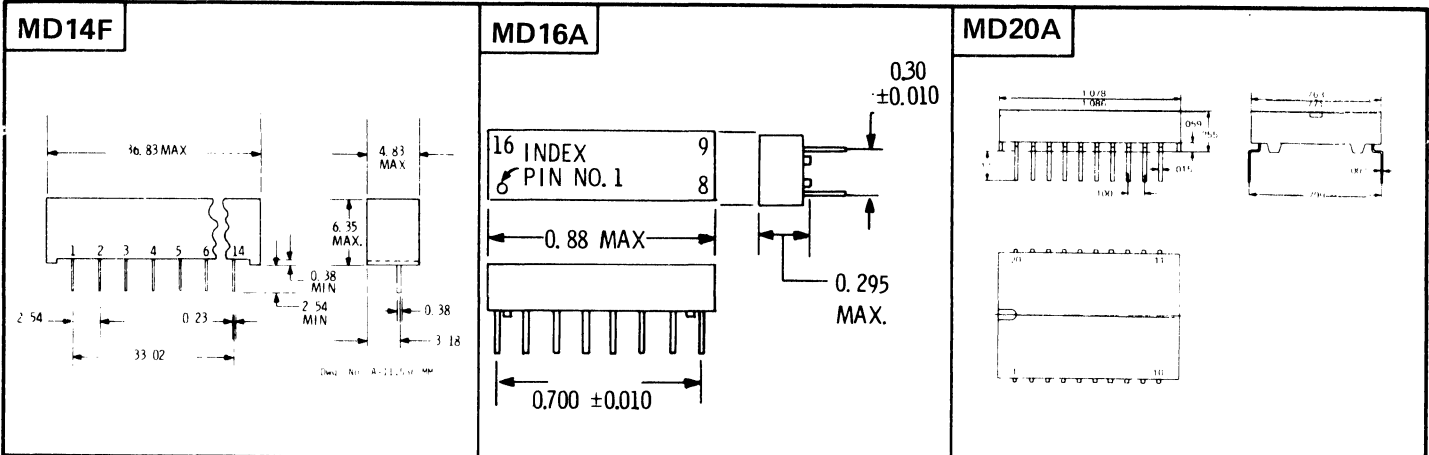


OPTIONAL
FREQ. ADJ.

	A	B	C	D	E	F	G	H	J	K
.250	1.50	1.00	.500	1.50	.500	1.130	.500	.400	.040	.300
.2300	1.50	1.00	.500	1.50	1.00		.300	.000	.040	
.2500	.970	1.00	.500	.970	.500		.500	.250	.040	



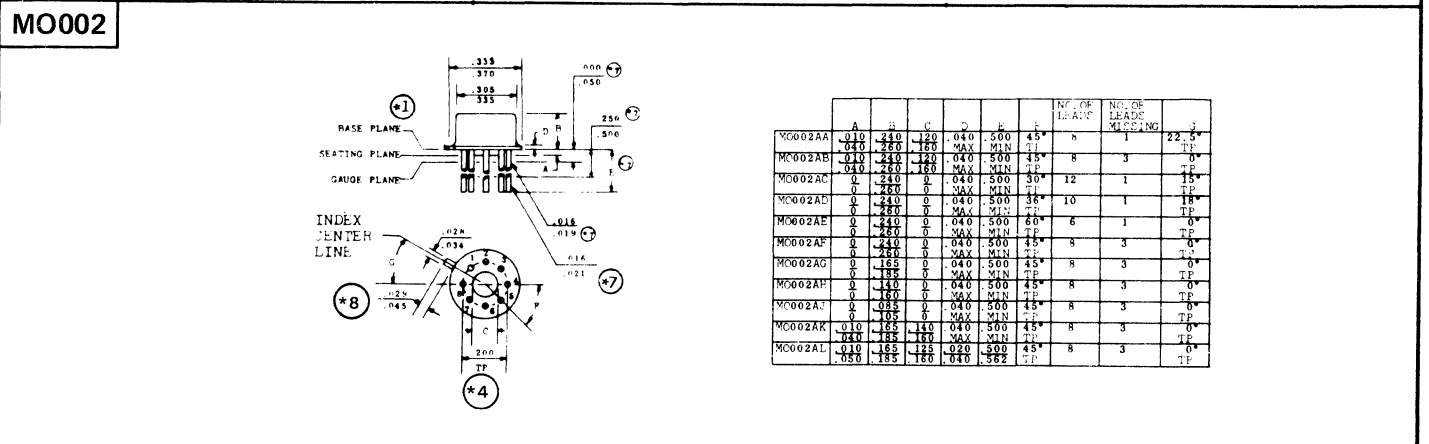
30. OUTLINE DRAWINGS



NOTES :

1. Refer to applicable symbol list.
2. Dimensioning and tolerancing per ANSI Y14.5-1973.
3. Leads within .005 radius of True Position (TP) at gauge plane with maximum material condition and unit installed.
4. e_1 and e_A applies in zone L_2 when unit installed.
5. α applies to spread leads prior to installation.
6. N is the maximum quantity of lead positions.
7. N_1 is the allowable quantity of missing leads.
8. E_1 does not include mold flash.
9. Outlines on which the seating plane is coincident with the base plane ($A_1 = 0$) terminal lead stand-offs are not required, and B_1 may equal B along any part of the lead above the seating/base plane.
10. Controlling Dimension: INCH

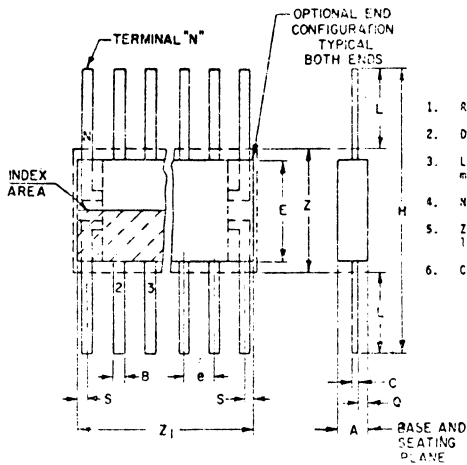
	A	A1	P	E1	C	D	E	E1	e1	eA	L	L2	a	N	N1	Q1	S	NOTES
MO001AA	.200	.020	.015	.030	.008	.680	.325	.220	.100	.300	.100	.000	0*	14	0			1,2,10
NOTES	MAX	MIN	.023	.070	.015	MAX	MAX	MAX	T.P.	T.P.	T.P.	MIN	15*	5	6	7		
MO001AB	.155	.020	.014	.050	.008	.745	.300	.240	.100	.300	.125	.000	0*	14	0	.040	.065	1,2,10
NOTES	MAX	.050	.020	.065	.012	.770	.325	.260	T.P.	T.P.	.150	.030	15*	5	6	.075	.090	
MO001AC	.155	.020	.014	.035	.008	.745	.300	.240	.100	.300	.125	.000	0*	16	0	.040	.015	1,2,10
NOTES	MAX	.050	.020	.065	.012	.785	.325	.260	T.P.	T.P.	.150	.030	15*	5	6	.075	.060	
MO001AD	.120	.020	.014	.050	.008	.745	.300	.240	.100	.300	.125	.000	0*	14	0	.050	.065	1,2,10
NOTES	MAX	.065	.020	.065	.012	.770	.325	.260	T.P.	T.P.	.150	.030	15*	5	6	.085	.090	
MO001AE	.120	.020	.014	.035	.008	.745	.300	.240	.100	.300	.125	.000	0*	16	0	.050	.015	1,2,10
NOTES	MAX	.065	.020	.065	.012	.785	.325	.260	T.P.	T.P.	.150	.030	15*	5	6	.085	.060	
MO001AF	.165	.015	.015	.045	.009	.750	.295	.245	.100	.300	.120	.000	2*	14	0	.050	.050	1,2,10
NOTES	MAX	.045	.020	.070	.011	.795	.325	.300	T.P.	T.P.	.160	.030	15*	5	6	.080	.110	
MO001AG	.165	.015	.015	.045	.009	.750	.295	.245	.100	.300	.120	.000	2*	16	0	.050	.010	1,2,10
NOTES	MAX	.045	.020	.070	.011	.795	.325	.300	T.P.	T.P.	.160	.030	15*	5	6	.080	.060	
MO001AH	.140	.015	.014	.044	.008	.730	.290	.240	.100	.300	.115	.000	0*	14	0	.050	.055	1,2,10
NOTES	MAX	.040	.020	.070	.012	.770	.320	.260	T.P.	T.P.	.155	.030	15*	5	6	.085	.090	
MO001AJ	.090	.020	.015	.035	.008	.685	.300	.240	.100	.300	.100	.000	0*	14	0	.060	.045	1,2,10
NOTES	MAX	.070	.023	.055	.012	.760	.325	.285	T.P.	T.P.	.150	.030	15*	5	6	.080	.090	
MO001AK	.090	.020	.015	.035	.008	.800	.300	.240	.100	.300	.100	.000	0*	16	0	.060	.040	1,2,10
NOTES	MAX	.070	.023	.055	.012	.840	.325	.285	T.P.	T.P.	.150	.030	15*	5	6	.080	.080	
MO001AL	.160	.020	.015	.044	.008	.815	.290	.240	.100	.300	.120	.000	0*	16	0	.050	.052	1,2,10
NOTES	MAX	.045	.020	.070	.012	.890	.350	.260	T.P.	T.P.	.150	.030	15*	5	6	.085	.095	



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
MO002AA	.010	.240	.120	.040	.500	.45*																				
NOTES	MAX	MIN	MAX	MIN	MIN	TP																				
MO002AB	.010	.240	.120	.040	.500	.45*																				
NOTES	MAX	MIN	MAX	MIN	MIN	TP																				
MO002AC	0	.240	0	.040	.500	.30*																				
NOTES	MAX	MIN	MAX	MIN	MIN	TP																				
MO002AD	0	.240	0	.040	.500	.38*																				
NOTES	MAX	MIN	MAX	MIN	MIN	TP																				
MO002AE	0	.240	0	.040	.500	.45*																				
NOTES	MAX	MIN	MAX	MIN	MIN	TP																				
MO002AF	0	.240	0	.040	.500	.45*																				
NOTES	MAX	MIN	MAX	MIN	MIN	TP																				
MO002AG	0	.165	0	.040	.500	.45*																				
NOTES	MAX	MIN	MAX	MIN	MIN	TP																				
MO002AH	0	.145	0	.040	.500	.45*																				
NOTES	MAX	MIN	MAX	MIN	MIN	TP																				
MO002AI	0	.085	0	.040	.500	.45*																				
NOTES	MAX	MIN	MAX	MIN	MIN	TP																				
MO002AK	.010	.165	.140	.040	.500	.45*																				
NOTES	MAX	MIN	MAX	MIN	MIN	TP																				
MO002AL	.010	.165	.125	.040	.500	.45*																				
NOTES	MAX	MIN	MAX	MIN	MIN	TP																				

30. OUTLINE DRAWINGS

MO004

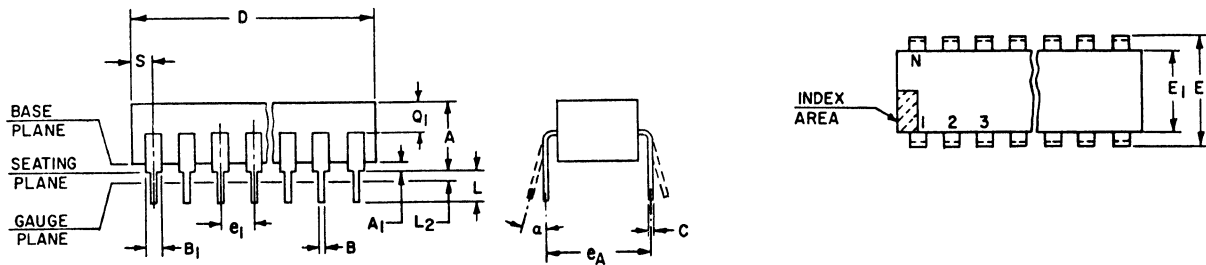


NOTES:

1. Refer to applicable symbol list.
2. Dimensioning and tolerancing per ANSI Y14.5-1973.
3. Leads within .025 radius of True Position (TP) at maximum material condition.
4. N is the maximum quantity of lead positions.
5. Z and Z₂ determine a zone within which all body and lead irregularities lie.
6. Controlling dimensions: INCH.

	A	B	C	e	E	H	L	N	Q	S	Z	Z ₁	NOTES
MO004AA	.008	.015	.003	.050	.200	.600	.150	14	.008	.000	.300	.350	1,2,6
NOTES	.100	.019	.006	TP	.300	1.000	.350	4	.050	.025	5	5	
MO004AB	.008	.013	.003	.050	.200	.600	.150	14	.005	.000	.300	.350	1,2,6
NOTES	.100	.017	.006	TP	.300	1.000	.350	4	.050	.025	5	5	
MO004AC	.008	.015	.003	.050	.200	.600	.150	14	.000	.000	.300	.350	1,2,6
NOTES	.100	.019	.006	TP	.300	1.000	.350	4	.097	.025	5	5	
MO004AD	.008	.015	.003	.050	.200	.600	.150	10	.005	.000	.300	.300	1,2,6
NOTES	.100	.019	.006	TP	.300	1.000	.350	4	.050	.050	5	5	
MO004AE	.008	.015	.003	.050	.200	.600	.150	10	.005	.000	.300	.250	1,2,6
NOTES	.100	.019	.006	TP	.300	1.000	.350	4	.050	.025	5	5	
MO004AF	.008	.015	.003	.050	.200	.600	.150	14	.005	.000	.300	.400	1,2,6
NOTES	.100	.019	.006	TP	.300	1.000	.350	4	.050	.050	5	5	
MO004AG	.008	.015	.003	.050	.200	.600	.150	14	.005	.000	.300	.400	1,2,6
NOTES	.100	.019	.006	TP	.300	1.000	.350	4	.050	.025	5	5	
MO004AH	.008	.015	.003	.050	.200	.600	.150	16	.005	.000	.300	.450	1,2,6
NOTES	.100	.019	.006	TP	.300	1.000	.350	4	.050	.025	5	5	

MO015

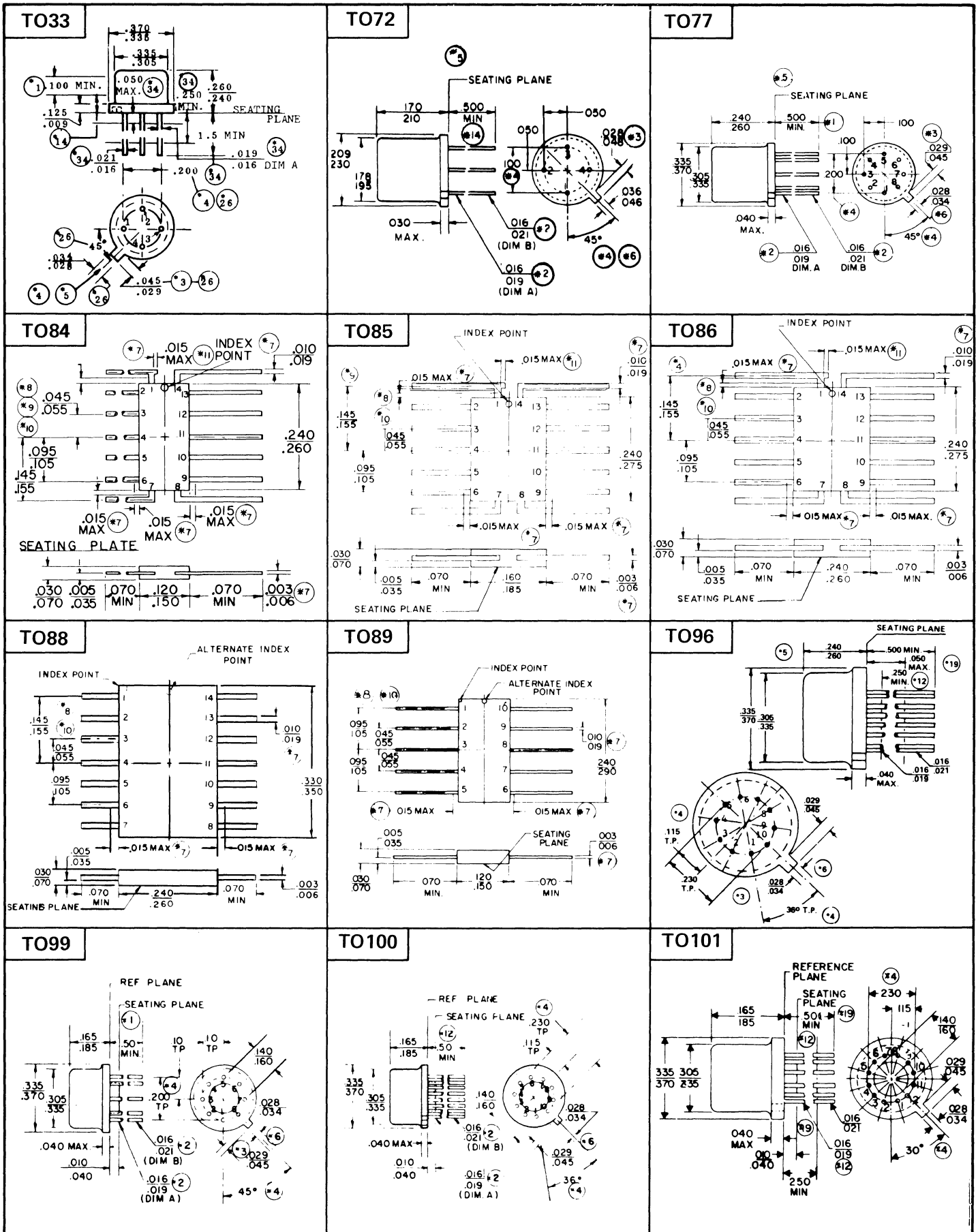


NOTES:

1. Refer to applicable symbol list.
2. Dimensioning and tolerancing per ANSI Y14.5-1973.
3. Leads within .127 radius of True Position (TP) at gauge plane with maximum material condition and unit installed.
4. e₁ and e_A applies in zone L₂ when unit installed.
5. α applies to spread leads prior to installation.
6. N is the maximum quantity of lead positions.
7. N₁ is the allowable quantity of missing leads.
8. E₁ does not include mold flash.
9. Outlines on which the seating plane is coincident with the base plane (A, D) terminal lead stand-offs are not required, and B₁ may equal B along any part of the lead above the seating/base plane.
10. Controlling Dimension: INCH

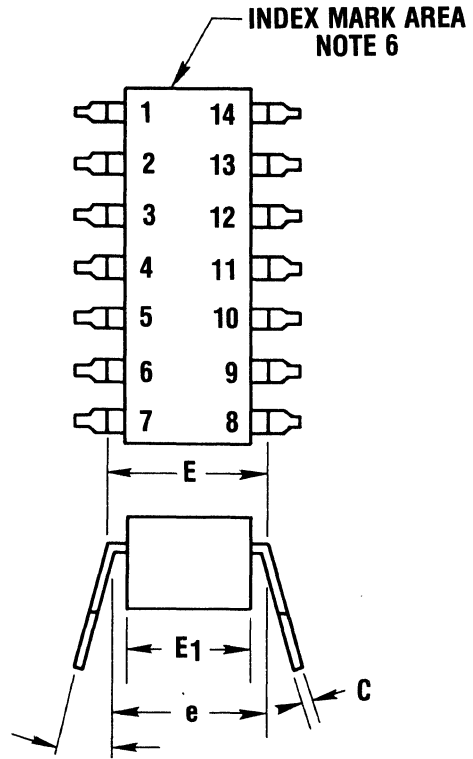
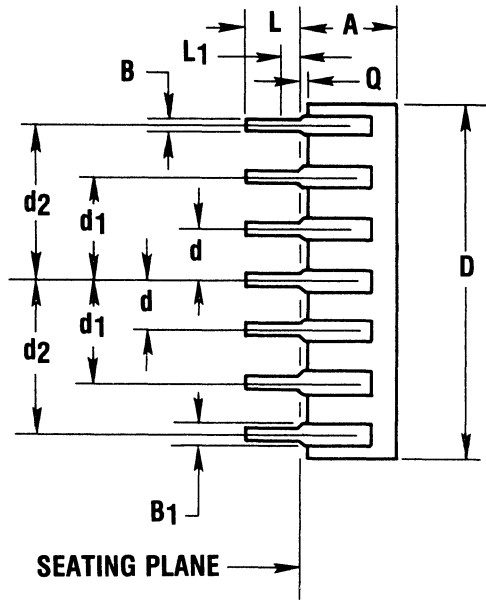
	A	A ₁	S	B ₁	C	D	E	E ₁	e ₁	e _A	L	L ₁	L ₂	α	N	N ₁	Q ₁	S	NOTES
MO015AA	.120	.020	.016	.028	.008	1.200	.600	.515	.100	.600	.100	.000	0	24	0	0	.040	.040	1,2,10
NOTES	.250	.070	.020	.070	.012	1.200	.625	.580	TP	TP	.200	.030	15	5	6	7	.075	.100	
MO015AB	.120	.020	.016	.028	.008	.700	.600	.515	.100	.600	.100	.000	0	16	0	0	.040	.040	1,2,10
NOTES	.250	.070	.020	.070	.012	.840	.625	.580	TP	TP	.200	.030	15	5	6	7	.075	.100	
MO015AC	.120	.020	.016	.028	.008	1.800	.600	.515	.100	.600	.100	.000	0	36	0	0	.065	.040	1,2,10
NOTES	.250	.070	.020	.070	.012	1.800	.625	.580	TP	TP	.200	.030	15	5	6	7	.105	.100	
MO015AD	.100	.000	.015	.015	.005	1.170	.600	.515	.100	.600	.100	.000	0	24	0	0	.020	.025	1,2,10
NOTES	.200	.070	.020	.055	.012	1.210	.625	.580	TP	TP	.200	.030	15	5	6	7	.080	.050	
MO015AE	.100	.000	.015	.015	.005	.770	.600	.515	.100	.600	.100	.000	0	16	0	0	.020	.025	1,2,10
NOTES	.200	.070	.020	.055	.012	.810	.625	.580	TP	TP	.200	.030	15	5	6	7	.080	.050	
MO015AF	.100	.000	.015	.015	.005	1.770	.600	.515	.100	.600	.100	.000	0	36	0	0	.020	.025	1,2,10
NOTES	.200	.070	.020	.055	.012	1.810	.625	.580	TP	TP	.200	.030	15	5	6	7	.080	.050	
MO015AG	.090	.020	.014	.045	.008	1.220	.600	.520	.100	.600	.125	.000	0	24	0	0	.020	.050	1,2,10
NOTES	.200	.070	.020	.054	.012	1.200	.625	.550	TP	TP	.150	.030	15	5	6	7	.060	.100	
MO015AH	.090	.000	.015	.015	.005	1.350	.600	.485	.100	.600	.100	.000	0	28	0	0	.020	.040	1,2,10
NOTES	.200	.070	.020	.055	.012	1.420	.625	.515	TP	TP	.200	.030	15	5	6	7	.070	.070	
MO015AI	.100	.000	.015	.015	.005	1.950	.600	.485	.100	.600	.100	.000	0	40	0	0	.020	.040	1,2,10
NOTES	.200	.070	.020	.055	.012	2.020	.625	.515	TP	TP	.200	.030	15	5	6	7	.070	.070	
MO015AJ	.145	.030	.015	.040	.008	1.240	.600	.540	.100	.600	.100	.000	0	24	0	0	.045	.065	1,2,10
NOTES	.175	.050	.020	.050	.015	1.260	.625	.560	TP	TP	.140	.030	15	5	6	7	.075	.085	
MO015AL	.090	.020	.015	.045	.008	1.350	.600	.480	.100	.600	.100	.000	0	28	0	0	.020	.020	1,2,10
NOTES	.140	.065	.020	.055	.012	1.430	.625	.520	TP	TP	.180	.030	15	5	6	7	.080	.060	
MO015AM	.090	.020	.015	.045	.008	1.950	.600	.480	.100	.600	.100	.000	0	40	0	0	.020	.020	1,2,10
NOTES	.140	.065	.020	.055	.012	2.020	.625	.520	TP	TP	.180	.030	15	5	6	7	.080	.060	
MO015AN	.090	.020	.015	.045	.008	1.150	.600	.480	.100	.600	.100	.000	0	24	0	0	.020	.020	1,2,10
NOTES	.150	.065	.020	.055	.012	1.220	.625	.520	TP	TP	.180	.030	15	5	6	7	.080	.060	

30. OUTLINE DRAWINGS



30. OUTLINE DRAWINGS

TO116



MILLIMETER DIMENSIONS ARE DERIVED FROM BASIC INCH DIMENSIONS

SYMBOL	INCHES		MILLIMETERS		NOTES
	MIN.	MAX.	MIN.	MAX.	
A	-	.200	-	5.08	
B	.015	.023	.381	.584	3,7
B ₁	.030	.070	.77	1.77	3,7
C	.008	.015	.204	.381	3
D	.660	.785	17.4	19.9	
d	.090	.110	2.29	2.79	1
d ₁	.190	.210	4.83	5.33	1
d ₂	.290	.310	7.37	7.87	1
E	-	.325	-	8.25	5
E ₁	.220	.280	5.59	7.11	
e	.290	.310	7.37	7.87	4
L	.100	-	2.540	-	1,3
L ₁	-	.030	-	.76	2
Q	.020	-	.51	-	
a	0°	15°	0°	15°	

30. OUTLINE DRAWINGS

JEDEC "MO" DRAWING NOTES

1. Refer to rules for dimensioning axial lead product outlines.
2. Refer to rules for dimensioning peripheral lead outlines.
3. Leads within .005 radius of true position (TP) at gauge plane with maximum material condition and unit installed.
4. Leads within .003 or .007 radius of true position (TP) at gauge plane with maximum material condition.
5. Apply in zone measured .000 to .030 when unit installed. Leads within .005 radius of (TP) at gauge plane with maximum material condition.
6. Applies to spread leads prior to installation.
7. Dimension .016 to .019 applies between dimensions .000 to .050 and .250 to .500. Dimension .016 to .021 applies between dimensions .250 to .500 and .500 from seating plane. Diameter is uncontrolled in dimension .000 to .050 and beyond dimension .500.
8. Measured from maximum diameter of device.
9. These dimensions determine a zone within which all body and lead irregularities lie.
10. Body stand off four places, spherical radius on seating surface. Terminal lead stand offs omitted.
11. The body stand off group is centered on the module and the stand offs shall be within a .010 radius of their TP measured at gauge plane.
12. Mechanical index.
13. Radius three sides.
14. Draft four sides.
15. Either numeric or Alpha-numeric terminal lead designation system may be used for this outline. Alpha-numeric system is preferred.
16. Terminal lead stand off, four places. Centered on pin within .006. Body stand offs omitted.
17. Contour within dotted outline optional.
18. The dimension .016 to .019 applies between the dimensions .025 max and .070 min. Diameter is uncontrolled within the .025 dimension.
19. When base of body is to be attached to heat sink, terminal lead stand offs are not required and Dim. B equals 0. When Dim. B equals 0, the leads emerge from the body with the D dim. and reduce to the C dim. above the seating plane.
20. Contour optional.
21. Pin spacing is .100 TP except for outer most rows where spacing is 1.5x .100 TP. (For example - spacing between pin #64 and #1 is .150 TP, where as spacing between pin #1 and #2 and #3, etc. is .100 TP.)
22. Typical all sides.
23. Terminal lead shall be within .203 mm radius of their TP measured at gauge plane.
24. Visual index position relates to JEDEC outline TO-69. Visual index located within index area is preferred.
25. Distance between lead centerlines.

JEDEC "TO" DRAWING NOTES

ZB NOTES

ZB No	CIRCUIT BOARDS	CANS	FLAT PACKS	MODULES
105			TO 80 TO 88	

1. Maximum number of leads omitted in this outline, Three (3). The number and position of present are indicated in the product registration. Outline designation determined by the location and minimum angular spacing of any two adjacent leads.
2. (All leads) Diameter is uncontrolled to .050 from seating plane and beyond minimum tolerance of lead length (1.5 or .5) from seating plane. Dim. A applies between .050 and .250 from seating plane. Dim. B applies between .250 and minimum tolerance of lead length from seating plane.
3. Measured from maximum diameter of the actual device.
4. Leads having maximum diameter .019 (.483MM) measured in gaging plane .054 (1.37MM) - .001 (.025MM) - .000 (.00MM) below the seating plane of the product shall be within .007 (.178MM) of their true position relative to a maximum width tab.
5. The product may be measured by direct methods or by gage.
6. Tab centerline.
7. Lead dimensions uncontrolled in this zone to allow for body and lead finish irregularities.
8. Leads missing from their designated positions shall also be counted when numbering leads for specific applications.
9. Spacing and angle of the end leads at the point of emergence of body is not controlled.
10. Leads spacing shall be measured within .030 (.762MM) from the point of emergence from the body or, as in the case of end lead, from the point where the extension of the body outline intersects the end leads.
11. Mechanical index, optional.
12. Maximum number of leads omitted in this outline, One (1). The number and position of leads actually present are indicated in the product registration. Outline designation determined by the location and minimum angular spacing of any two adjacent leads.
13. Irregularity in body outline not controlled in this zone.
14. Maximum number of leads omitted in this outline, None (0). The number and position of leads actually present are indicated in the product registration. Outline designation determined by the location and minimum angular or linear spacing of any two adjacent leads.
15. Overall installed width.
16. Index to be visible from top, this end only.
17. Lead transition geometry from .015/.023 to .030/.070 optional on body side of seating plane.
18. Installed position of lead centers.
19. (All leads) .016/.019 applies between .050 max. and .250 min. .016/.021 applies between .250 min. and .500 (12.70MM) from reference plane. Diameter is uncontrolled in .050 max. and beyond .500 (12.70MM) from reference plane.
20. Contour of package beyond this zone optional, but must be confined with .310/.330 and .120/.240.
21. Contour and orientation of fixed terminal lugs are undefined.
22. The body and terminals of the device, with the exception of the extended lug length .650 max. and .575 max. lies within the cylinder defined by 1.227 max. and length 1.810 max.
23. A chamfer (or undercut) on one or both ends of the hexagonal portions is optional.
24. Length of incomplete or undercut threads of dim. .425 min and .499 max.
25. Pitch dia. of 1/2-20UNF-2A (coated) threads (ASA B1.1-1960).
26. Minimum flat.
27. This zone is controlled for automatic handling. The variation in actual diameter within the zone shall not exceed .010 in.
28. (Three leads) Dimension .016 min. and .019 max. applies between .050 max. and .250 min. Dimension .016 min. and .021 max. applies between .250 min. and 1.5 in. from seating plane. Diameter is uncontrolled in .050 max. and beyond 1.5 in. from seating plane.
29. Three Leads.

SECTION 31 DIGITAL I.C. 16

MANUFACTURERS' SALES OFFICES

These manufacturers have listed their sales offices in this section for your convenience. Please contact the sales office nearest you for any information you may need.

(MANUFACTURERS IN ORDER OF D.A.T.A. CODE LETTERS)

ITTG - ITT SEMICONDUCTORS



		Zip Code	Telephone No.	TWX/Telex
Intermetall, Post Office Box 840, Freiburg, West Germany		D-7800	761-5170	772715
JAPAN Tokyo	ITT Semiconductors	160-91	3478881-5	22858
	Post Office Box 21 Shinjuku-ku			
UNITED KINGDOM Sidcup	ITT Semiconductors	DA14 5HT	1-300 3333	21836
	(Kent) H Maidstone Rd.			
UNITED STATES Lawrence	ITT Semiconductors	01841	617-688-1881	710-342-1357
	(Massachusetts) 500 Broadway			

PHIN - PHILIPS ELECTRONIC COMPONENTS & MATERIALS DIVISION



		Zip Code	Telephone No.	TWX/Telex
MARKETING COMMUNICATIONS Building BA, Eindhoven, Netherlands			(040) 723142	35000
ARGENTINA Buenos Aires	Philips Argentina S.A.	1430	541-7141/7545	21243
	Div. Elcoma Vedia 3892			
AUSTRALIA Lane Cove	Philips Industries Holdings, Ltd.	2066	427 0888	21611
	Elcoma Division 67 Ma's Road	N.S.W.		
AUSTRIA Wien	Osterreichische Philips	A-1101	62 91 11	131802
	Bauelemente Industrie G.m.b.H. Triester Strasse 64			

Continued on next page

SECTION 31 MANUFACTURERS' SALES OFFICES



PHIN - PHILIPS ELECTRONIC COMPONENTS & MATERIALS DIVISION (Cont'd)

		Zip Code	Telephone No.	TWX/Telex
MARKETING COMMUNICATIONS				
Building BA, Eindhoven, Netherlands				
			(040) 723142	35000
BELGIUM	Bruxelles	N.V. Philips & M.B.L.E. Associated..... B-1030	(02) 242 74 00	21420
		9 Rue du Pavillon		
BRAZIL	Sao Paulo, SP	Ibrape..... 1735	(011) 211-2600	112 4354
		Av. Brigadeiro Faria Lima Caixa Postal 7383		
CANADA	Scarborough	Philips Electronics Ltd..... M1B 1M8	292-5161	65-25103
	(Ontario)	Electron Devices Division 601 Milner Avenue		
DENMARK	Kobenhavn NV	Miniwatt A/S..... DK-2400	(01) 69 16 22	15310
		Emdrupvej 115A		
FINLAND	Helsinki 10	Oy Philips Ab..... SF-00100	1 72 71	124811
		Elcoma Division Kaivokatu 8		
FRANCE	Paris 11	R.T.C. (RTCF)*..... F-75540	355-44-99	680495
		La Radiotechnique Compelec 130 Avenue Ledru Rollin		
GERMANY	Hamburg 1	VALVO (VALG)*..... D-2	(040) 3296-0	216891
		UB Bauelemente der Philips GmbH Valvo Haus Burchardstrasse 19		
HONG KONG	Kwai Chung	Philips Hong Kong Ltd.....	(0)-24 5121	75820
		Elcoma Div. 15/F Philips Industrial Bldg. 24-28 Kung Yip Street		
ITALY	Milano	Philips S.p.A..... I-20124	2-6752.1	3 30262
		Sezione Elcoma Piazza IV Novembre 3		
JAPAN	Tokyo	Nihon Philips Corporation..... 108	(448) 5611	26388
		Shuwa Shinagawa Bldg. 26-33 Takanawa, 3-chome Minato-ku		02422205
KOREA	Seoul	Philips Electronics (Korea) Ltd.....	794-4202	27291
		Philips House-Elcoma Division 260-199 Itaewon-dong Yongsan-ku C.P.O. Box 3680		

Continued on next page

SECTION 31 MANUFACTURERS' SALES OFFICES

PHIN - PHILIPS ELECTRONIC COMPONENTS & MATERIALS DIVISION(Cont'd)



		Zip Code	Telephone No.	TWX/Telex
MARKETING COMMUNICATIONS				
Building BA, Eindhoven, Netherlands			(040) 723142	35000
MEXICO Toluca	Electronica S.A. de C.V.	50140	91(721)613-00	1771227
	Carr. Mexico - Toluca Km. 62.5 Edo. de Mexico			
NETHERLANDS	Eindhoven	Philips Nederland	5600 PB	(040) 79 33 33
		Marktgroep Elonco Postbus 90050		51238
NEW ZEALAND	Auckland	Philips Electrical Industries Ltd.	894-160	2312
	(St. Lukes)	Elcoma Division 2 Wagener Place		
NORWAY	Oslo 6	Norsk A/S Philips.....	68-02-00	11141
		Electronica Dept. Sandstuveien 70		
SOUTH AFRICA	Johannesburg	EDAC (Pty.) Ltd.	614-2362/9	8-3607
	(New Doornfontein)	3rd Fl. Rainer House Upper Railway Rd. & Ove St.		
SPAIN	Barcelona 7	Miniwatt S.A.	301 63 12	54666
		Balmes 22		
SWEDEN	Stockholm 27	Philips Komponenter A.B.	08/679780	10776
		Lidingovagen 50		
SWITZERLAND	Zurich	Philips A.G.	01-488 22 11	52392
		Elcoma Dept. Allmendstrasse 140-142		
TAIWAN	Taipei	Philips Taiwan Ltd.	(02) 5631717	21570
		San Min Bldg., 3rd Floor 57-1 Chung Shan N. Road Section 2 P.O.B. 22978		
UNITED KINGDOM	London	Mullard Ltd.	01-580-6633	264341
		Mullard House Torrington Place		
UNITED STATES	California	Signetics Corporation (SIC)*	408-739-7700	910-339-9203
	(Sunnyvale)	811 East Arques Avenue		

**SECTION 31
MANUFACTURERS' SALES OFFICES**

PLSB – PLESSEY SEMICONDUCTORS LTD.



Cheney Manor, Swindon, Wiltshire, United Kingdom.....	Zip Code SN2 2QW	Telephone No. 0793-36251	TWX/Telex 449637
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UNITED STATES

CALIFORNIA.....Irvine.....	Plessey Semiconductors 92714	714-540-9979	910-595-1930
	1641 Kaiser Avenue		

RTCF – R.T.C. LA RADIOTECHNIQUE-COMPELEC



130, Avenue Ledru-Rollin, Paris Cedex 11, France.....	Zip Code 75.540	Telephone No. 355-44-99	TWX/Telex PHILAMP PARIS 280746
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SGL – SILICON GENERAL, INC.



11651 Monarch Street, Garden Grove, California	Zip Code 92641	Telephone No. 714-892-5531	TWX/Telex 910-596-1804 69-2411
--	--------------------------	--------------------------------------	--

SIC – SIGNETICS CORPORATION

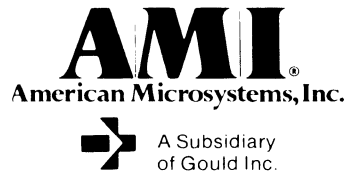


811 East Arques Avenue, Post Office Box 409, Sunnyvale, California.....	Zip Code 94086	Telephone No. 408-739-7700	TWX/Telex 910-339-9220
---	--------------------------	--------------------------------------	----------------------------------

32. MANUFACTURERS LOGOS



AMD — Advanced Micro Devices Inc.



AMI — American Micro-Systems Inc.



ANA — Analog Devices Inc.

BEL

BELI — Bharat Electronics Ltd.



DDC — ILC Data Device Corp.



DTL — Datel — Intersil Inc.



EXR — Exar Integrated Systems



FCAJ — Fujitsu Ltd.



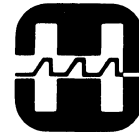
FERB — Ferranti Electronics Ltd.



FSC — Fairchild Camera & Instrument Corp.



GTE — GTE Microcircuits



HAS — Harris Semiconductor



HITJ — Hitachi Ltd.



INL — Intersil Inc.



ITL — Intel Corp.



LSC - LSI Computer Systems, Inc.



MATJ — Matsushita Electronics Corp.



MITJ — Mitsubishi Electric Corp.



MMI — Monolithic Memories



MOTA — Motorola Semiconductor Products Inc.



MULB — Mullard Ltd.

NEC

NECJ — Nippon Electric Co.

Nitron, Inc.

NIT — Nitron Inc.



NSC — National Semiconductor

32. MANUFACTURERS LOGOS



OKI
electric
industry
company, Ltd.

OKIJ – OKI Electric
Industry Co., Ltd.



PHIN - Philips Elect. Comp. &
Material Div.



PLSB – Plessey Semiconductors Ltd.

RCA

RCA – RCA Corp.



RTCF – R.T.C. LaRadiotechnique
Compelec



RTN – Raytheon Co.



SGAI – SGS-ATES Componenti
Elettronici

Signetics

SIC – Signetics Corp.

SIEMENS



SIEG – Siemens Aktiengesellschaft



Product Identifier

②

SPR – Sprague Electric Co.



SSS – Solid State Scientific Inc.

Supertex inc.



STX – Supertex Inc.

SYK – Synertek, Inc.



THEF - Thomson-CSF/EFCIS



TII – Texas Instruments Inc.



TOSJ – Toshiba Corp.

TRW

TRW – TRW LSI Products

SANYO

TSAJ – Tokyo Sanyo Electric Co.

**TELEDYNE
SEMICONDUCTOR**

TSC – Teledyne Semiconductor



VALG – Valvo GmbH

WESTERN DIGITAL
CORPORATION

WDC – Western Digital Corp.

WEITEK
VLSI SYSTEMS AND TECHNOLOGY

WET - Weitek Corp.

Zilog

ZIL – Zilog Microcomputers

33. MANUFACTURERS' CODES, NAMES & ADDRESSES

MANUFACTURERS' CODES, NAMES, AND ADDRESSES

OPL MFR. DESIG.	FSCM/ NATO No.	D.A.T.A. MFRS. CODE	
CDWN	34335	AMD	Advanced Micro Devices, Inc., 901 Thompson Pl., Sunnyvale, CA 94086
		AMI	American Micro-Systems, Inc., 3800 Homestead Rd., Santa Clara, CA 95051
	24355	ANA	Analog Devices, Inc., 2 Technology Way, Norwood, MA 02062
		BELI	Bharat Electronics Ltd., Jalahalli, Bangalore 13, India
		DDC	★ ILC Data Device Corp., 105 Wilbur Pl., Bohemia, NY 11716
	25034	DIS	Discon Industries, Inc., 61 SW 5th Ct., Pompano Beach, FL 33060
		DTL	Datel-Intersil Inc., 11 Cabot Blvd., Mansfield Industrial Park, Mansfield, MA 02048
	52063	EXR	Exar Integrated Systems, Inc., Box 62229, 750 Palomar Ave., Sunnyvale, CA 94088
	S0167	FCAJ	Fujitsu Limited, 1015 Kamikodanaka, Nakahara-ku, Kawasaki 211, Japan
	K1196	FERB	Ferranti Electronics Ltd., Fields New Rd., Chadderton, Oldham OL9 8NP, England
CFJ	07263	FSC	Fairchild - Digital Division, 333 Western Ave., S. Portland, MA 04106
		GTE	GTE Microcircuits Div., 2000 W. 14th St., Tempe, AZ 85281
CDWO	34371	HAS	Harris Semiconductor, P.O. Box 883, Melbourne, FL 32901
	S4742	HITJ	Hitachi Limited, 1800 Bering Dr., San Jose, CA 95112
CDPR	32293	INL	Intersil, Inc., 10701 N. Tantau Ave., MS 38, Cupertino, CA 95014
CECC	34649	ITL	Intel Corporation, 3065 Bowers Ave., Santa Clara, CA 95051
		LSC	LSI Computer Systems Inc., 1235 Walt Whitman Road, Melville, NY 11747
	S0293	MATJ	Matsushita Electronics Corp., (Panasonic), Semicon. Div., 1 Kotari-Yakemachi, Nagaokakyo, Kyoto 617, Japan
		MITJ	Mitsubishi Electric Corp., Kita-Itami Works, 401 Mizuhara, Itami-Shi, Hyogo-Ken, Post Code 664, Japan
		MLC	Master Logic, 761 E. Evelyn Ave., Sunnyvale, CA 94086
		MMI	Monolithic Memories, Inc., 1165 E. Arques Ave., Sunnyvale, CA 94086
CGG	04713	MOTA	Motorola Semiconductor Products Inc., 725 So. Madison St., Tempe, AZ 85281
	K0004	MULB	Mullard Limited, New Road, Mitcham, Surrey, England
	S0543	NECJ	Nippon Electric Co., 484 3 Chome Tsukagoshi Saiwai-ku, Kawasaki City, Japan
		NIT	Nitron, Inc., 10420 Bubb Rd., Cupertino, CA 95014
CCXP	27014	NSC	National Semiconductor, Microcircuits Div., 2900 Semiconductor Dr., Santa Clara, CA 95051
	S4071	OKIJ	OKI Electric Industry Co., Ltd., Electronic Prod. Sec. Intl. Div., 10-3 Shibaura 4-chome, Minato-ku, Tokyo 108, Japan
	H0002	PHIN	* Philips Electronic Components & Material Div., Elcoma Bldg. BA, Eindhoven, Netherlands
	K0467	PLSB	* Plessey Semiconductors, Cheney Manor, Swindon, Wiltshire, England SN2 2QW
CRC	18714	RCA	RCA Corporation, Solid State Div., Route 202, Somerville, NJ 08876
	12256	RTCF	* R.T.C. LaRadiotechnique-Compelec, 130 Av. Ledru-Rollin, 75540 Paris Cedex 11, France
CRP	07933	RTN	Raytheon Company, 350 Ellis St., Mountain View, CA 94043
	A3500	SGAI	SGS-ATES Componenti Elettronici S.p.A., Stradale Primosole, 50, Catania, Italy 95121
CDKB	18324	SIC	* Signetics Corp., 811 E. Arques Ave., Sunnyvale, CA 94086
	92346	SIEG	Siemens Aktiengesellschaft, Semiconductor Div., Balanstrasse 73, D8000, Munich 8, West Germany
CDCD	22229	SOD	Solitron Devices, Inc., 8808 Balboa Ave., San Diego, CA 92123
CSF	56289	SPR	Sprague Electronic Co., 87 Marshall St., North Adams, MA 01247

★ **NEW MANUFACTURERS**

* See Section 31 for Sales Office Listings

33. MANUFACTURERS' CODES, NAMES & ADDRESSES

QPL MFR. DESIG.	FSCM/ NATO No.	D.A.T.A. MFRS. CODE	MANUFACTURERS' CODES, NAMES, AND ADDRESSES
	11911	SSE	Solid State Electronics Corp., 18646 Parthenia, Northridge, CA 91324
CECE	31019	SSS	Solid State Scientific Inc., 3900 Welsh Rd., Willow Grove, PA 19090
	51791	STK	Statek Corporation, 512 North Main, Orange, CA 92668
		STX	Supertex, Inc., 1225 Bordeaux Dr., Sunnyvale, CA 94086
		SYK	★ Synertek, Inc., 3001 Stender Way M/S 52, Santa Clara, CA 95054
		THEF	Thomson-CSF/EFCIS, 45 Ave de L'Europe, Velizy Villacoublay, France 78140
			Thomson-CSF/EFCIS, 6660 Variel Ave., Canoga Park, CA 91304
CGO	01295	TII	Texas Instruments, Inc., Inquiry Answering Service, M/S 308, P.O. Box 225012, Dallas, TX 75265
		TOSJ	Toshiba Corp., c/o Microelectronics, Center 1 Komukai, Toshiba Cho Saiwaiku, Kawasaki 210, Japan
		TRW	TRW-LSI Products, P.O. Box 2472, La Jolla, CA 92038
		TSAJ	Tokyo Sanyo Electric Co., Ltd., Oizumimachi, Orangun, Gumma, Japan
	15818	TSC	Teledyne Semiconductor, 1300 Terra Bella Ave., Mountain View, CA 94043
		USSR	V/O Electronzaganpostavka, 24/2.U1 Usievicha, Moscow, 125315 USSR
	D2540	VALG	Valvo GmbH, P.O. Box 993, D2000, Hamburg, 1, West Germany
	52840	WDC	Western Digital Corp., 2445 McCabe Way, Irvine, CA 92714
		WET	Weitek Corp., 3325 Scott Blvd., Santa Clara, CA 95050
		ZIL	Zilog Inc., 1315 Dell Ave., Campbell, CA 95008

★ NEW MANUFACTURERS

* See Section 31 for Sales Office Listings

INTERPRETER - DIGITAL INTEGRATED CIRCUITS SYMBOLS & CODES EXPLAINED

★ SYMBOLS & CODES COMMON TO MORE THAN ONE SECTION

LOGIC LEVELS

- * - Minimum
- Δ - Maximum
- § - 3-state device
- ∅ - Open collector

POWER DISSIPATION

- † - Typical
- ▢ - Absolute maximum
- % - Quiescent power dissipation

LINE NO.

- ▼ - New type
- ◆ - Revised specification
- # - Non-JEDEC type manufactured outside U.S.A.

TYPE NUMBER

- Δ - Indicators of separate manufacturers producing same type number (non-JEDEC) whose characteristics are not the same. This manufacturer-identifying symbol # (assigned by D.A.T.A.) is an integral part of the type number (in Type No. Cross Index, Technical Data Sections) to avoid the possibility of confusing the device of one manufacturer with the devices of the others.
- RT - Suffix indicates device is a replacement type. Consult manufacturer for more information
- #1, #2, - The modifier is designated by D.A.T.A. to distinguish between type no. designations which give only one type no. but have more than one electrical function or package.
- % - Different suffixes for the same type number indicate availability of different packaging compositions; i.e., ceramics, plastics, etc. Consult manufacturer.
- #ai (A) - **Advanced Information**
- #MIL, (M) - **Indicates type is available with MIL-STD-883B Screening.**

TYPE OF or USE COLUMN

- | | | |
|--|--|--|
| <ul style="list-style-type: none"> A - Buffers/drivers can be used separately B - Gating included can be used separately C - Inverter included can be used separately D - Clamped operation variable level capability E - With internally connected buffers/drivers/gates F - With internally connected gating | <ul style="list-style-type: none"> G - With internally connected inverters H - Incandescent number display included J - Neon numeric display included K - Complement input used L - Includes buffer register M - Manufacturer indicates gate will operate on either connective function by changing the logic level convention | <ul style="list-style-type: none"> R - Reversible S - Both normal and inverted functions are available at separate output terminals T - Includes multiplexer input U - Variable or programmable modulo V - Device has latching capability W - Device has multiplexed outputs |
|--|--|--|

LOGIC TYPE

- BIP - Bipolar
- CDL - Capacitor Diode Logic
- CMS - CMOS
- CTL - Capacitor Transistor Logic
- DDL - Diode Logic
- DTL - Transistor Diode Logic
- ECL - Emitter-Coupled Logic
- ECT - Emitter Coupled Transistor Logic
- HNL - Hi Noise Immunity Logic
- IIL - Integrated Injection Logic
- ITL - Transformer Coupled Transistor Logic
- MTL - Core Transistor Logic
- NCH - N-Channel
- PCH - P-Channel
- RCT - Resistor Capacitor Transistor Logic
- RDL - Resistor Diode Logic
- RTL - Resistor Transistor Logic
- TFT - Thin Film Transistor Logic
- TTL - Transistor Coupled Logic
- VTL - Variable Threshold Logic

OUTLINE DRAWING COLUMN (Letter Prefix)

- CH - Chip package
- CN - TO5 type (not JEDEC outline)
- DL - Dual-in-line-pkg.
- FP - Flat package (not JEDEC outline)
- MD - Misc. Devices
- SL - Single-in-line
- TO - Standard JEDEC outline
- ZB - Multiple package possibilities and drawing reference information
- ▢ - Package style - actual dimensions not specified
- MO - MO standard JEDEC outline

MAXIMUM FAN OUT (Per Circuit)

- NOTE: Fan Out computed at rated output sink current, based on following unit loading factors:
- a - 1.6mA
 - b - 2.0mA
 - c - .80mA
 - d - .36mA
 - e - .18mA
 - f - 5.0pF U.L. (Prop delay specified at max. F.O.)
 - g - 250uA

LOGIC LEVEL "0"

- C - Indicates values given are for output

OPERATING TEMPERATURE CODE

- 0 - 0 up to 9
 - 1 - 10 up to 19
 - 2 - 20 up to 29
 - 3 - 30 up to 39
 - 4 - 40 up to 49
 - 5 - 50 up to 59
 - 6 - 60 up to 69
 - 7 - 70 up to 79
 - 8 - 80 up to 89
 - 9 - 90 up to 99
 - A - 100 up to 109
 - B - 110 up to 119
 - C - 120 up to 129
 - D - 130 up to 139
 - E - 140 up to 149
 - F - 150 up to 159
 - G - 160 up to 169
 - H - 170 up to 179
 - J - 180 up to 189
 - K - 190 up to 199
- ▼ - Used in negative column to indicate both temps are positive
- Example of Operating Temp Range Code
- | | |
|--|--|
| 5 | C |
| ┌ | ┌ |
| └ | └ |
| Min value lies between -50°C and -59°C | Max value lies between +120°C and +129°C |

MAXIMUM OPERATING FREQUENCY

- T - Maximum toggle frequency
- \$ - Maximum clock rate

DIGITAL INTEGRATED CIRCUITS — INTERPRETER SYMBOLS & CODES EXPLAINED

SECTION 4

BINARY/FLIP-FLOPS

SECTION 4

<p>TYPE NO. DATA SHEET TECHNOLOGY TYPE OF FLIP-FLOP LOGIC LEVEL '1' LOGIC LEVEL '0' MAX OPERATING FREQ FAN IN FAN OUT POWER SUPPLY SPAN NEG POWER SUPPLY SPAN POS PROPAGATION DELAY RISE TIME FALL TIME TOTAL PKG DISS. NOISE REJECT TEMP LOW TEMP HI CKT PER MOD LOGIC DWG NO. OUTLINE DWG NO.</p>	<p>The manufacturers designated type number for the device. References page number of manufacturers supplied data sheet. The main bipolar or MOS semiconductor technology of the device. A 1 number code representing the basic type of flip-flop (see code listing). The least positive (most negative) value of high level input voltage for which operation of the logic element within specification limits is guaranteed. The most positive (least negative) value of low level input voltage for which operation of the logic element within specification limits is guaranteed. The maximum input frequency the device will reliably function at. The number of input lines available. The number of loads that a given device can drive within a given logic family. The maximum allowable negative voltage (with respect to ground) that may be applied to the (-) supply terminal and still guarantee proper device operation. The maximum allowable positive voltage (with respect to ground) that may be applied to the (+) supply terminal and still guarantee proper device operation. The time delay between the 50% points on the input and output waveforms when the output changes state due to a change of input state. The interval between the time the instantaneous amplitude rises from 10% to 90% of the peak pulse amplitude. The interval between the time at which the instantaneous amplitude drops from 90% to 10% of the peak pulse amplitude. The maximum allowable power dissipation of the entire device. The difference between the maximum allowable input low and maximum output low voltage or the difference between the minimum allowable high input and minimum high output of the device. Minimum allowable ambient operating temperature Maximum allowable ambient operating temperature The number of basic independent identical circuits contained per package. Indicates where schematic or logic diagram may be found Indicates where device packaging information may be found</p>
---	---

4. BINARY/FLIP-FLOPS

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC '1'
(4) LOGIC '0' (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TYPE	LOGIC LEVEL		MAX. OPER. FREQ. (Hz)	FAN IN/OUT		POWER SUPPLY SPAN NEG/POS. (V)	PROP. DELAY (S)	MAXIMUM RISE/FALL TIME (S)		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE -/+	CKTS PER MOD	DRAWINGS		
					MIN. '1' (V)	MAX. '0' (V)		IN	OUT MAX			RISE	FALL					LOGIC OR BLOCK	OUTLINE	
5																				



- 5 (FOR LETTER SUFFIX SEE COMMON CODES)
- 2 - J-K
 - 3 - R-S
 - 4 - R-S-T
 - 5 - Shift Register
 - 6 - T
 - 7 - Complement RS
 - 8 - D Type

- 14 15
- Δ - Minimum
 - † - Typical
 - # - Minimum input pulse width

★ - Symbols and codes explained on LC1

INTERPRETER — DIGITAL INTEGRATED CIRCUITS SYMBOLS & CODES EXPLAINED

SECTION 5

GATES

SECTION 5

TYPE NO.	The manufacturers designated type number for the device.
DATA SHEET	References page number of manufacturers supplied data sheet.
TECHNOLOGY	The main bipolar or MOS semiconductor technology of the device.
TYPE OF GATE	The basic gate subclass, i.e., "AND" "OR" etc.
LOGIC LEVEL '1'	The least positive (most negative) value of high level input voltage for which operation of the logic element within specification limits is guaranteed.
LOGIC LEVEL '0'	The most positive (least negative) value of low level input voltage for which operation of the logic element within specification limits is guaranteed.
FAN IN	The number of input lines available
FAN OUT	The number of loads that a given device can drive within a given logic family.
POWER SUPPLY SPAN NEG	The maximum allowable negative voltage (with respect to ground) that may be applied to the (-) supply terminal and still guarantee proper device operation.
POWER SUPPLY SPAN POS	The maximum allowable positive voltage (with respect to ground) that may be applied to the (+) supply terminal and still guarantee proper device operation.
PROPAGATION DELAY	The time delay between the 50% points on the input and output waveforms when the output changes state due to a change of input state.
RISE TIME	The interval between the time the instantaneous amplitude rises from 10% to 90% of the peak pulse amplitude.
FALL TIME	The interval between the time at which the instantaneous amplitude drops from 90% to 10% of the peak pulse amplitude.
TOTAL PKG DISS.	The maximum allowable power dissipation of the entire device.
NOISE REJECT	The difference between the maximum allowable input low and maximum output low voltage or the difference between the minimum allowable high input and minimum high output of the device.
TEMP LOW	Minimum allowable ambient operating temperature
TEMP HI	Maximum allowable ambient operating temperature
LOGIC DWG NO.	Indicates where schematic or logic diagram may be found
OUTLINE DWG NO.	Indicates where device packaging information may be found.

5. GATES

IN ORDER OF: (1) TECHNOLOGY (2) TYPE (3) LOGIC '1'
(4) LOGIC '0' (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	1 | TECH	2 | TYPE OF GATE	LOGIC LEVEL		FAN		POWER SUPPLY SPAN	PROPAGATION DELAY (S)	MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS	
					3 | MIN. '1' (V)	4 | MAX. '0' (V)	IN	OUT MAX.			RISE TIME (S)	FALL TIME (S)					LOGIC OR BLOCK	OUTLINE
★	★		★	5	★	★					12	13	14	★	★		★	★

5 (FOR LETTER SUFFIX SEE COMMON CODES)

- | | |
|-------------------|-------------------|
| 1 - AND | 9 - Non-Inverting |
| 2 - OR | 10 - Differential |
| 3 - NOR | 11 - Multiple |
| 4 - NAND | 12 - Nand/Inv |
| 5 - Exclusive OR | 13 - Nor/Inv |
| 6 - Gate expander | 14 - Inv/Non-Inv |
| 7 - Exclusive NOR | 15 - And/Nand |
| 8 - Invert | 16 - Nor/Non-Inv |
| | 17 - Or/Nor |

12 Δ - Maximum

13 14 Δ - Minimum
t - Typical

★ - Symbols and codes explained on LC1

DIGITAL INTEGRATED CIRCUITS — INTERPRETER SYMBOLS & CODES EXPLAINED

SECTION 6

DECODERS

SECTION 6

<p>TYPE NO.</p> <p>DATA SHEET</p> <p>TECHNOLOGY</p> <p>DECODES FROM-TO</p> <p>LOGIC LEVEL '1'</p> <p>LOGIC LEVEL '0'</p> <p>NO. OF LINES IN</p> <p>NO. OF LINES OUT</p> <p>POWER SUPPLY SPAN NEG</p> <p>POWER SUPPLY SPAN POS</p> <p>TRANSITION TIME</p> <p>RISE TIME</p> <p>FALL TIME</p> <p>TOTAL PKG DISS.</p> <p>NOISE REJECT</p> <p>TEMP LOW</p> <p>TEMP HI_i</p> <p>CKT PER MOD</p> <p>LOGIC DWG NO.</p> <p>OUTLINE DWG NO.</p>	<p>The manufacturers designated type number for the device.</p> <p>References page number of manufacturers supplied data sheet.</p> <p>The main bipolar or MOS semiconductor technology of the device.</p> <p>The basic arithmetic codes (from and to) translated by the device.</p> <p>The least positive (most negative) value of high level input voltage for which operation of the logic element within specification limits is guaranteed.</p> <p>The most positive (least negative) value of low level input voltage for which operation of the logic element within specification limits is guaranteed.</p> <p>The number of input lines available</p> <p>The number of decoded output lines</p> <p>The maximum allowable negative voltage (with respect to ground) that may be applied to the (-) supply terminal and still guarantee proper device operation.</p> <p>The maximum allowable positive voltage (with respect to ground) that may be applied to the (+) supply terminal and still guarantee proper device operation.</p> <p>Transition Time, High-To-Low-Level Output (t_{THL})</p> <p>The time between a specified high-level voltage and a specified low-level voltage on the output voltage waveform with the specified output changing from the defined high level to the defined low level.</p> <p>Transition Time, Low-To-High-Level Output (t_{TLH})</p> <p>The time between a specified low-level voltage and a specified high-level voltage on the output voltage waveform with the specified output changing from the defined low level to the defined high level.</p> <p>The interval between the time the instantaneous amplitude rises from 10% to 90% of the peak pulse amplitude.</p> <p>The interval between the time at which the instantaneous amplitude drops from 90% to 10% of the peak pulse amplitude.</p> <p>The maximum allowable power dissipation of the entire device.</p> <p>The difference between the maximum allowable input low and maximum output low voltage or the difference between the minimum allowable high input and minimum high output of the device.</p> <p>Minimum allowable ambient operating temperature</p> <p>Maximum allowable ambient operating temperature</p> <p>The number of basic independent identical circuits contained per package.</p> <p>Indicates where schematic or logic diagram may be found.</p> <p>Indicates where a device packaging information may be found.</p>
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6. DECODERS

IN ORDER OF: (1) TECHNOLOGY (2) DECODES FROM (3) DECODES TO (4) TYPE NO.

LINE No.	4	TYPE NO.	DATA SHT.	1	DECODES		LOGIC LEVEL		NUMBER OF LINES		POWER SUPPLY SPAN NEG (V)	POWER SUPPLY SPAN POS (V)	TRANSITION TIME (S)	MAXIMUM RISE TIME (S)	MAXIMUM FALL TIME (S)	MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS	
					2	3	R	T	MIN. '1' (V)	MAX. '0' (V)										IN	OUT	LOGIC OR BLOCK	OUTLINE
★	★	★	★	★	5	6	★	★	13	14	15	★	★	★	★	★	★	★	★	★	★

5 6 (FOR LETTER SUFFIX SEE COMMON CODES)

- | | |
|--------------------------|-----------------------------------|
| 1 – Binary | 10 – Quinary |
| 2 – Binary coded decimal | 17 – 8421 code |
| 3 – Bi-quinary | 18 – One of 'x' number of lines |
| 4 – Decimal | 19 – Two of 'x' number of lines |
| 5 – Excess 3 code | 21 – Excess three gray code |
| 6 – Gray code | 23 – Three of 'x' number of lines |
| 8 – Octal | 24 – Hexadecimal |
| 9 – Quaternary | |

13 P – Propagation delay
 Δ – Maximum

14 15 † – Typical

★ – Symbols and codes explained on LC1

INTERPRETER — DIGITAL INTEGRATED CIRCUITS SYMBOLS & CODES EXPLAINED

SECTION 10

TIME DELAYS

SECTION 10

TYPE NO.	The manufacturers designated type number for the device.
DATA SHEET	References page number of manufacturers supplied data sheet.
TECHNOLOGY	The main bipolar or MOS semiconductor technology of the device.
TYPE DELAY TYPE	A 1 digit code signifying the type of delay line. (see code listing.)
LOGIC LEVEL '1'	The least positive (most negative) value of high level input voltage for which operation of the logic element within specification limits is guaranteed.
LOGIC LEVEL '0'	The most positive (least negative) value of low level input voltage for which operation of the logic element within specification limits is guaranteed.
FAN IN	The number of input lines available
FAN OUT	The number of loads that a given device can drive within a given logic family.
POWER SUPPLY SPAN NEG	The maximum allowable negative voltage (with respect to ground) that may be applied to the (-) supply terminal and still guarantee proper device operation.
POWER SUPPLY SPAN POS	The maximum allowable positive voltage (with respect to ground) that may be applied to the (+) supply terminal and still guarantee proper device operation.
MIN DELAY	Minimum available time delay of the device.
RISE TIME	The interval between the time the instantaneous amplitude rises from 10% to 90% of the peak pulse amplitude.
FALL TIME	The interval between the time at which the instantaneous amplitude drops from 90% to 10% of the peak pulse amplitude.
TOTAL PKG DISS.	The maximum allowable power dissipation of the entire device.
NOISE REJECT	The difference between the maximum allowable input low and maximum output low voltage or the difference between the minimum allowable high input and minimum high output of the device.
TEMP LOW	Minimum allowable ambient operating temperature
TEMP HI	Maximum allowable ambient operating temperature
CKT PER MOD	The number of basic independent identical circuits contained per package.
LOGIC DWG NO.	Indicates where schematic or logic diagram may be found
OUTLINE DWG NO.	Indicates where device packaging information may be found.

10. TIME DELAYS

IN ORDER OF: TECHNOLOGY (2) TYPE OF DELAY
(3) LOGIC '1' (4) LOGIC '0' (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	D T E P A E Y	LOGIC LEVEL		FAN		POWER SUPPLY SPAN		MIN. DELAY	MAXIMUM		MAX. OPER. POWER DISS.	MAX. NOISE REJECT	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS		
					3 MIN. '1' (V)	4 MAX '0' (V)	IN	OUT MAX.	NEG. (V)	POS. (V)		RISE TIME	FALL TIME					LOGIC OR BLOCK	OUTLINE	
★	★	★	★	5	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★

5 (FOR LETTER SUFFIX SEE COMMON CODES)

- 1 — Delay line fixed
- 2 — Delay line tapped
- 3 — Delay line continuously variable
- 4 — Mono-stable multivibrator fixed delay
- 5 — Mono-stable multivibrator variable delay
- 6 — Time base/counter
- 7 — RC Timer

12 Δ — Maximum

- 13 † — Typical
- 14 # — Minimum input pulse width

★ — Symbols and codes explained on LC1

DIGITAL INTEGRATED CIRCUITS — INTERPRETER SYMBOLS & CODES EXPLAINED

SECTION 11

COUNTERS

SECTION 11

<p>TYPE NO.</p> <p>DATA SHEET</p> <p>TECHNOLOGY</p> <p>TYPE OF COUNTER</p> <p>OPERATING FREQ</p> <p>LOGIC LEVEL '1'</p> <p>LOGIC LEVEL '0'</p> <p>FAN IN</p> <p>FAN OUT</p> <p>POWER SUPPLY SPAN NEG</p> <p>POWER SUPPLY SPAN POS</p> <p>PROPAGATION DELAY</p> <p>RISE TIME</p> <p>FALL TIME</p> <p>TOTAL PKG DISS.</p> <p>NOISE REJECT</p> <p>TEMP LOW</p> <p>TEMP HI</p> <p>CKT PER MOD</p> <p>LOGIC DWG NO.</p> <p>OUTLINE DWG NO.</p>	<p>The manufacturers designated type number for the device.</p> <p>References page number of manufacturers supplied data sheet.</p> <p>The main bipolar or MOS semiconductor technology of the device.</p> <p>Type or mode of counting represented by a 1 digit number (see code listing).</p> <p>The maximum input frequency the device will reliably function at.</p> <p>The least positive (most negative) value of high level input voltage for which operation of the logic element within specification limits is guaranteed.</p> <p>The most positive (least negative) value of low level input voltage for which operation of the logic element within specification limits is guaranteed.</p> <p>The number of input lines available</p> <p>The number of loads that a given device can drive within a given logic family</p> <p>The maximum allowable negative voltage (with respect to ground) that may be applied to the (-) supply terminal and still guarantee proper device operation.</p> <p>The maximum allowable positive voltage (with respect to ground) that may be applied to the (+) supply terminal and still guarantee proper device operation.</p> <p>The time delay between the 50% points on the input and output waveforms when the output changes state due to a change of input state.</p> <p>The interval between the time the instantaneous amplitude rises from 10% to 90% of the peak pulse amplitude.</p> <p>The interval between the time at which the instantaneous amplitude drops from 90% to 10% of the peak pulse amplitude.</p> <p>The maximum allowable power dissipation of the entire device.</p> <p>The difference between the maximum allowable input low and maximum output low voltage or the difference between the minimum allowable high input and minimum high output of the device.</p> <p>Minimum allowable ambient operating temperature</p> <p>Maximum allowable ambient operating temperature</p> <p>The number of basic independent identical circuits contained per package.</p> <p>Indicates where schematic or logic diagram may be found</p> <p>Indicates where device packaging information may be found.</p>
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11. COUNTERS

IN ORDER OF: (1) TECHNOLOGY (2) TYPE OF COUNTER
(3) OPERATING FREQ. (4) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	T Y P E	MAX. OPER. FREQ. (Hz)	LOGIC LEVEL		FAN IN	OUT MAX	POWER SUPPLY SPAN		PROPAGATION DELAY (S)	RISE TIME (S)	FALL TIME (S)	MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS	
						MIN. '1' (V)	MAX. '0' (V)			NEG (V)	POS (V)								LOGIC OR BLOCK	OUTLINE
★	★		★	5	★	★		★		13	14	15	★	★	★	★		★	★	

- 5** (FOR LETTER SUFFIX SEE COMMON CODES)
- 1 — Binary coded decimal
 - 2 — Binary
 - 3 — Decimal
 - 4 — Fast carry
 - 5 — Ring/Johnson
 - 6 — Special
 - 7 — Hexadecimal
 - 8 — Divide by 12
 - 9 — Gray code
 - 10 — Octal
 - 11 — Decade
- Δ — Number following Δ indicates count divisor

13 Δ — Maximum

14 **15** * — Minimum
 † — Typical
 # — Min. input pulse width

★ — Symbols and codes explained on LC1

INTERPRETER — DIGITAL INTEGRATED CIRCUITS SYMBOLS & CODES EXPLAINED

SECTION 12

CLOCKS/MULTIVIBRATORS

SECTION 12

TYPE NO.	The manufacturers designated type number for the device.
DATA SHEET	References page number of manufacturers supplied data sheet.
TECHNOLOGY	The main bipolar or MOS semiconductor technology of the device.
TYPE OF M-V	Operating mode (type) of multi-vibrator
OPERATING FREQ	The maximum input frequency the device will reliably function at.
LOGIC LEVEL '1'	The least positive (most negative) value of high level input voltage for which operation of the logic element within specification limits is guaranteed.
LOGIC LEVEL '0'	The most positive (least negative) value of low level input voltage for which operation of the logic element within specification limits is guaranteed.
FAN IN	The number of input lines available
FAN OUT	The number of loads that a given device can drive within a given logic family.
POWER SUPPLY SPAN NEG	The maximum allowable negative voltage (with respect to ground) that may be applied to the (-) supply terminal and still guarantee proper device operation.
POWER SUPPLY SPAN POS	The maximum allowable positive voltage (with respect to ground) that may be applied to the (+) supply terminal and still guarantee proper device operation.
DELAY	Minimum available time delay of the device.
RISE TIME	The interval between the time the instantaneous amplitude rises from 10% to 90% of the peak pulse amplitude.
FALL TIME	The interval between the time at which the instantaneous amplitude drops from 90% to 10% of the peak pulse amplitude.
TOTAL PKG DISS.	The maximum allowable power dissipation of the entire device.
NOISE REJECT	The difference between the maximum allowable input low and maximum output low voltage or the difference between the minimum allowable high input and minimum high output of the device.
TEMP LOW	Minimum allowable ambient operating temperature
TEMP HI	Maximum allowable ambient operating temperature
CKT PER MOD	The number of basic independent identical circuits contained per package.
LOGIC DWG NO.	Indicates where schematic or logic diagram may be found
OUTLINE DWG NO.	Indicates where device packaging information may be found

12. CLOCKS/MULTIVIBRATORS

IN ORDER OF: (1) TECHNOLOGY (2) TYPE OF MULTI-VIBRATOR (3) OPER. FREQ. (4) TYPE NO.

LINE No.	4	TYPE NO.	DATA SHT.	1	2	3	LOGIC LEVEL		FAN		POWER SUPPLY SPAN		MAXIMUM		MAX. OPER. POWER DISS. (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE - +	CKTS PER MOD	DRAWINGS			
							MIN. '1' (V)	MAX. '0' (V)	IN	OUT MAX.	NEG (V)	POS (V)	RISE TIME (S)	FALL TIME (S)					MIN. DELAY (S)	LOGIC OR BLOCK	OUTLINE	
★	★	★	★	★	5	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	

- 5
- 1 — Astable
 - 2 — Astable synchronized
 - 3 — Astable variable
 - 4 — Crystal controlled
 - 6 — RC or LC oscillators
 - 7 — Voltage-controlled oscillator
 - 8 — Monostable

- 13
- △ — Maximum

- 14 15
- * — Minimum
 - † — Typical
 - # — Minimum input pulse width

★ — Symbols and codes explained on LC1

DIGITAL INTEGRATED CIRCUITS — INTERPRETER SYMBOLS & CODES EXPLAINED

SECTION 13

FREQUENCY DIVIDERS

SECTION 13

<p>TYPE NO.</p> <p>DATA SHEET</p> <p>TECHNOLOGY</p> <p>TYPE CODE</p> <p>MAXIMUM DIVISOR</p> <p>OPERATING FREQ</p> <p>NO. OF STAGES</p> <p>LOGIC LEVEL '1'</p> <p>LOGIC LEVEL '0'</p> <p>SINK CURRENT</p> <p>@ V_o</p> <p>POWER SUPPLY SPAN NEG</p> <p>POWER SUPPLY SPAN POS</p> <p>TOTAL PKG DISS.</p> <p>TEMP LOW</p> <p>TEMP HI</p> <p>LOGIC DWG NO.</p> <p>OUTLINE DWG NO.</p>	<p>The manufacturers designated type number for the device.</p> <p>References page number of manufacturers supplied data sheet.</p> <p>The main bipolar or MOS semiconductor technology of the device.</p> <p>1-digit numeric code representing type of divider. (See code listing.)</p> <p>The maximum division that may be achieved with the device.</p> <p>The maximum input frequency the device will reliably function at.</p> <p>Number of counting stages (i.e., flip-flops)</p> <p>The least positive (most negative) value of high level input voltage for which operation of the logic element within specification limits is guaranteed.</p> <p>The most positive (least negative) value of low level input voltage for which operation of the logic element within specification limits is guaranteed.</p> <p>The current into the output terminal with input conditions applied that, according to product specifications, will establish a low level at the output</p> <p>The voltage at which output sink current is specified.</p> <p>The maximum allowable negative voltage (with respect to ground) that may be applied to the (-) supply terminal and still guarantee proper device operation.</p> <p>The maximum allowable positive voltage (with respect to ground) that may be applied to the (+) supply terminal and still guarantee proper device operation.</p> <p>The maximum allowable power dissipation of the entire device.</p> <p>Minimum allowable ambient operating temperature</p> <p>Maximum allowable ambient operating temperature</p> <p>Indicates where schematic or logic diagram may be found</p> <p>Indicates where device packaging information may be found</p>
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13. FREQUENCY DIVIDERS

IN ORDER OF: (1) TECHNOLOGY (2) TYPE CODE (3) MAX. DIVISOR (4) MAX. FREQ. (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHEET.	1 | TECH	2 | TYPE CODE	3 | MAXIMUM DIVISOR	4 | MAX. OPER. FREQ. (Hz)	N S O T A G E	LOGIC LEVEL		MINIMUM SINK CURRENT (A)	POWER SUPPLY SPAN		MAX. OPER. POWER DISS (W)	OPER. TEMP. RANGE CODE - | +	DRAWINGS		
								MIN. '1' (V)	MAX. '0' (V)		NEG. (V)	POS. (V)			LOGIC OR BLOCK	OUTLINE	
★	★		★	5		★	8	★	★	★			★	★	★	★	★

- 5
- 1 — Programmable
 - 2 — Rate multiplier
 - 3 — Fixed
 - 4 — Chromatic frequency generator

- 8 F — Number of frequency control lines

★ — Symbols and codes explained on LC1

INTERPRETER — DIGITAL INTEGRATED CIRCUITS SYMBOLS & CODES EXPLAINED

SECTION 15

ADDERS

SECTION 15

TYPE NO.	The manufacturers designated type number for the device.
DATA SHEET	References page number of manufacturers supplied data sheet.
TECHNOLOGY	The main bipolar or MOS semiconductor technology of the device.
TYPE CODE	1 bit numeric code indicating the type of addition the device can perform. (See list of codes.)
BITS	The number of parallel bits the device can simultaneously add.
PROPAGATION DELAY	The maximum time delay between the 50% points on the input and output waveforms when the output changes state due to a change of input state.
OPER MODE	The maximum time delay between the 50% points on the input and output waveforms when the output changes state due to a change of input state.
LOGIC LEVEL '1'	The least positive (most negative) value of high level input voltage for which operation of the logic element within specification limits is guaranteed.
LOGIC LEVEL '0'	The most positive (least negative) value of low level input voltage for which operation of the logic element within specification limits is guaranteed.
SINK CURRENT	The current into the output terminal with input conditions applied that, according to product specifications, will establish a low level at the output
@ V _o	The voltage at which output sink current is specified.
POWER SUPPLY SPAN NEG	The maximum allowable negative voltage (with respect to ground) that may be applied to the (-) supply terminal and still guarantee proper device operation.
POWER SUPPLY SPAN POS	The maximum allowable positive voltage (with respect to ground) that may be applied to the (+) supply terminal and still guarantee proper device operation.
TOTAL PKG DISS.	The maximum allowable power dissipation of the entire device.
FEATURES	Special device features or capabilities. (See abbreviations.)
TEMP LOW	Minimum allowable ambient operating temperature
TEMP HI	Maximum allowable ambient operating temperature
LOGIC DWG NO.	Indicates where schematic or logic diagram may be found
OUTLINE DWG NO.	Indicates where device packaging information may be found.

15. ADDERS

IN ORDER OF:(1)TECHNOLOGY(2)TYPE CODE(3)BITS
(4)PROPAGATION DELAY(5)TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	TC YO PD EE	B I T S	4 MAX. PROP. DELAY (S)	OM PO ED RE	LOGIC LEVEL		MINIMUM SINK CURRENT (A)	@ V _o	POWER SUPPLY SPAN		MAX. OPER. POWER DISS. (W)	FEATURES	OPER. TEMP. RANGE CODE - +	DRAWINGS		
								MIN. '1' (V)	MAX. '0' (V)			NEG. (V)	POS. (V)				LOGIC OR BLOCK	OUTLINE	
★	★		★	5			8	★	★	★				★	16	★	★	★	★

- 5
- 1 — Half adder
 - 2 — Full adder
 - 3 — Adder/Subtractor
 - 4 — Subtractor

- 8
- P — Parallel
 - S — Serial

- 16
- BUFF — Buffered output
 - COMPL — Complementary
 - LACO — Look-ahead carry output
 - NBCD — Natural binary coded decimal

★ — Symbols and codes explained on LC1

DIGITAL INTEGRATED CIRCUITS — INTERPRETER SYMBOLS & CODES EXPLAINED

SECTION 16

MULTIPLIERS

SECTION 16

<p>TYPE NO. DATA SHEET TECHNOLOGY MODE BIT ARRAY LO BIT ARRAY HI PROPAGATION DELAY ARITHMETIC CAPABILITY LOGIC LEVEL '1' LOGIC LEVEL '0' SINK CURRENT @ V_o POWER SUPPLY SPAN NEG POWER SUPPLY SPAN POS TOTAL PKG DISS. TEMP LOW TEMP HI LOGIC DWG NO. OUTLINE DWG NO.</p>	<p>The manufacturers designated type number for the device. References page number of manufacturers supplied data sheet. The main bipolar or MOS semiconductor technology of the device. P = Parallel S = Serial S/P = Both Number of bits of the multiplier and multiplicand with the low number listed first. The maximum time delay between the 50% points on the input and output waveforms when the output changes state due to a change of input state. The basic code multiplying capability of the device. (See list of abbreviations.) The least positive (most negative) value of high level input voltage for which operation of the logic element within specification limits is guaranteed. The most positive (least negative) value of low level input voltage for which operation of the logic element within specification limits is guaranteed. The current into the output terminal with input conditions applied that, according to product specifications, will establish a low level at the output The voltage at which output sink current is specified. The maximum allowable negative voltage (with respect to ground) that may be applied to the (-) supply terminal and still guarantee proper device operation. The maximum allowable positive voltage (with respect to ground) that may be applied to the (+) supply terminal and still guarantee proper device operation. The maximum allowable power dissipation of the entire device. Minimum allowable ambient operating temperature Maximum allowable ambient operating temperature Indicates where schematic or logic diagram may be found Indicates where device packaging information may be found.</p>
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16. MULTIPLIERS

IN ORDER OF: (1) TECHNOLOGY (2) MODE (3) LO BIT ARRAY (4) PROPAGATION DELAY (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	MODE	BIT ARRAY LOxHI	MAX PROP. DELAY (S)	ARITHMETIC CAPABILITY	LOGIC LEVEL		MINIMUM SINK CURRENT (A)	@ V_o	POWER SUPPLY SPAN		MAX. OPER. POWER DISS. (W)	OPER. TEMP. RANGE CODE	DRAWINGS	
								MIN. '1' (V)	MAX. '0' (V)			NEG. (V)	POS. (V)			LOGIC OR BLOCK	OUTLINE
★	★		★	5		8	9	★	★	★		★	★	★	★	★	★

5 P — Parallel
S — Serial
S/P — Serial/parallel

8 T — Multiply time

9 BCD — Binary coded decimal
BIN — Binary
BO — Binary offset
DP — Double precision
PDA — Product Accumulation
2SC — 2's complement
USM — Unsigned Magnitude

★ — Symbols and codes explained on LC1

INTERPRETER — DIGITAL INTEGRATED CIRCUITS SYMBOLS & CODES EXPLAINED

SECTION 17

MAGNITUDE COMPARATORS

SECTION 17

TYPE NO.	The manufacturers designated type number for the device.
DATA SHEET	References page number of manufacturers supplied data sheet.
TECHNOLOGY	The main bipolar or MOS semiconductor technology of the device.
TYPE CODE	Code representing the comparison capability of the device (see list of codes).
BITS	The number of parallel bits the device can simultaneously add.
PROPAGATION DELAY	The maximum time delay between the 50% points on the input and output waveforms when the output changes state due to a change of input state.
COMPARES CODE	The arithmetic code the device is capable of performing comparisons on. BCD = Binary Coded Decimal BIN = Binary
LOGIC LEVEL '1'	The least positive (most negative) value of high level input voltage for which operation of the logic element within specification limits is guaranteed.
LOGIC LEVEL '0'	The most positive (least negative) value of low level input voltage for which operation of the logic element within specification limits is guaranteed.
SINK CURRENT	The current into the output terminal with input conditions applied that, according to product specifications, will establish a low level at the output
@ V_0	The voltage at which output sink current is specified.
POWER SUPPLY SPAN NEG	The maximum allowable negative voltage (with respect to ground) that may be applied to the (-) supply terminal and still guarantee proper device operation.
POWER SUPPLY SPAN POS	The maximum allowable positive voltage (with respect to ground) that may be applied to the (+) supply terminal and still guarantee proper device operation.
TOTAL PKG DISS.	The maximum allowable power dissipation of the entire device.
TEMP LOW	Minimum allowable ambient operating temperature
TEMP HI	Maximum allowable ambient operating temperature
LOGIC DWG NO.	Indicates where schematic or logic diagram may be found
OUTLINE DWG NO.	Indicates where device packaging information may be found.

17. MAGNITUDE COMPARATORS

IN ORDER OF: (1) TECHNOLOGY (2) TYPE CODE (3) BITS
(4) PROPAGATION DELAY (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	T C Y P D E	I O P D E	B I T S	MAX. PROP. DELAY (S)	COMPARES CODE	LOGIC LEVEL		MINIMUM SINK CURRENT (A)	@ V_0	POWER SUPPLY SPAN		MAX. OPER. POWER DISS. (W)	OPER. TEMP. RANGE CODE	DRAWINGS	
									MIN. '1' (V)	MAX. '0' (V)			NEG. (V)	POS. (V)			LOGIC OR BLOCK	OUTLINE
★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★

- 5 M — Magnitude comparator
I — Identity comparator
U — Unified bus comparator used in conjunction with other codes

- 8 BCD — Binary coded decimal
BIN — Binary

★ — Symbols and codes explained on LC1

DIGITAL INTEGRATED CIRCUITS — INTERPRETER SYMBOLS & CODES EXPLAINED

SECTION 18

ARITHMETIC LOGIC UNITS

SECTION 18

<p>TYPE NO. DATA SHEET TECHNOLOGY BITS NUMBER OF OPERATIONS LOGIC NUMBER OF OPERATIONS ARITHMETIC PROPAGATION DELAY</p> <p>@ OPERATE MODE LOGIC LEVEL '1' LOGIC LEVEL '0'</p> <p>SINK CURRENT @ V_o POWER SUPPLY SPAN NEG POWER SUPPLY SPAN POS</p> <p>TOTAL PKG DISS. FEATURES TEMP LOW TEMP HI LOGIC DWG NO. OUTLINE DWG NO.</p>	<p>The manufacturers designated type number for the device. References page number of manufacturers supplied data sheet. The main bipolar or MOS semiconductor technology of the device. The number of parallel bits the device can simultaneously add. The number of logic operations performed; i.e., AND, OR, etc. The number of arithmetic operations performed; i.e., ADD, SUBTRACT, etc. The maximum time delay between the 50% points on the input and output waveforms when the output changes state due to a change of input state. The mode of operation at which the propagation delay is specified. The least positive (most negative) value of high level input voltage for which operation of the logic element within specification limits is guaranteed. The most positive (least negative) value of low level input voltage for which operation of the logic element within specification limits is guaranteed. The current into the output terminal with input conditions applied that, according to product specifications, will establish a low level at the output The voltage at which output sink current is specified. The maximum allowable negative voltage (with respect to ground) that may be applied to the (-) supply terminal and still guarantee proper device operation. The maximum allowable positive voltage (with respect to ground) that may be applied to the (+) supply terminal and still guarantee proper device operation. The maximum allowable power dissipation of the entire device. See list of abbreviations Minimum allowable ambient operating temperature Maximum allowable ambient operating temperature Indicates where schematic or logic diagram may be found Indicates where device packaging information may be found.</p>
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18. ARITHMETIC LOGIC UNITS

IN ORDER OF: (1) TECHNOLOGY (2) BITS (3) NO. OF LOGIC OPER. (4) PROPAGATION DELAY (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	B I T S	NO. OF OPER. LOG TH.	4 | MAXIMUM PROPAGATION DELAY (S)	LOGIC LEVEL		MINIMUM SINK CURRENT (A)	POWER SUPPLY SPAN		MAX. OPER. POWER DISS. (W)	FEAT-URES	OPER. TEMP. RANGE CODE	DRAWINGS			
							MIN. '1' (V)	MAX. '0' (V)		NEG. (V)	POS. (V)				LOGIC OR BLOCK	OUTLINE		
★	★		★			(9)	★	★	★				★	(17)	★	★	★	★

(9) DIFF — Difference
LOG — Logic
SUM — Sum

(17) LACO — Look-ahead carry output
LACG — Look-ahead carry generator
LACGO — Look-ahead carry generator and output

★ — Symbols and codes explained on LC1

INTERPRETER — DIGITAL INTEGRATED CIRCUITS

SYMBOLS & CODES EXPLAINED

SECTION 19

LOOK-AHEAD CARRY GENERATORS

SECTION 19

TYPE NO.	The manufacturers designated type number for the device.
DATA SHEET	References page number of manufacturers supplied data sheet.
TECHNOLOGY	The main bipolar or MOS semiconductor technology of the device.
BITS	The number of parallel bits the device can simultaneously add.
PROPAGATION DELAY	The maximum time delay between the 50% points on the input and output waveforms when the output changes state due to a change of input state.
LOGIC LEVEL '1'	The least positive (most negative) value of high level input voltage for which operation of the logic element within specification limits is guaranteed.
LOGIC LEVEL '0'	The most positive (least negative) value of low level input voltage for which operation of the logic element within specification limits is guaranteed.
SINK CURRENT	The current into the output terminal with input conditions applied that, according to product specifications, will establish a low level at the output
@ V_o	The voltage at which output sink current is specified.
POWER SUPPLY SPAN NEG	The maximum allowable negative voltage (with respect to ground) that may be applied to the (-) supply terminal and still guarantee proper device operation.
POWER SUPPLY SPAN POS	The maximum allowable positive voltage (with respect to ground) that may be applied to the (+) supply terminal and still guarantee proper device operation.
TOTAL PKG DISS.	The maximum allowable power dissipation of the entire device.
FEATURES	Special features or capabilities of the device
TEMP LOW	Minimum allowable ambient operating temperature
TEMP HI	Maximum allowable ambient operating temperature
CKT PER MOD	The number of basic independent identical circuits contained per package.
LOGIC DWG NO.	Indicates where schematic or logic diagram may be found
OUTLINE DWG NO.	Indicates where device packaging information may be found.

19. LOOK-AHEAD CARRY GENERATORS

IN ORDER OF: (1) TECHNOLOGY (2) BITS
(3) PROPAGATION DELAY (4) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	1 TECH	2 BITS	3 MAX. PROP. DELAY (S)	LOGIC LEVEL		MINIMUM SINK CURRENT (A)	@ V_o	POWER SUPPLY SPAN		MAX. OPER. POWER DISS. (W)	FEATURES	OPER. TEMP RANGE CODE - | +	CKTS PER MOD	DRAWINGS		
						MIN. '1' (V)	MAX. '0' (V)			NEG (V)	POS (V)					LOGIC OR BLOCK	OUTLINE	
★	★		★			★	★	★				★		★	★		★	★

★ — Symbols and codes explained on LC1

DIGITAL INTEGRATED CIRCUITS — INTERPRETER SYMBOLS & CODES EXPLAINED

SECTION 25

PARITY GENERATORS/CHECKERS

SECTION 25

<p>TYPE NO.</p> <p>DATA SHEET</p> <p>TECHNOLOGY</p> <p>BITS</p> <p>PROPAGATION DELAY</p> <p>LOGIC LEVEL '1'</p> <p>LOGIC LEVEL '0'</p> <p>SINK CURRENT</p> <p style="padding-left: 20px;">@ V_o</p> <p>POWER SUPPLY SPAN NEG</p> <p>POWER SUPPLY SPAN POS</p> <p>TOTAL PKG DISS.</p> <p>FEATURES</p> <p>TEMP LOW</p> <p>TEMP HI</p> <p>CKT PER MOD</p> <p>LOGIC DWG NO.</p> <p>OUTLINE DWG NO.</p>	<p>The manufacturers designated type number for the device.</p> <p>References page number of manufacturers supplied data sheet.</p> <p>The main bipolar or MOS semiconductor technology of the device.</p> <p>The number of parallel bits the device can simultaneously add.</p> <p>The maximum time delay between the 50% points on the input and output waveforms when the output changes state due to a change of input state.</p> <p>The least positive (most negative) value of high level input voltage for which operation of the logic element within specification limits is guaranteed.</p> <p>The most positive (least negative) value of low level input voltage for which operation of the logic element within specification limits is guaranteed.</p> <p>The current into the output terminal with input conditions applied that, according to product specifications, will establish a low level at the output</p> <p>The voltage at which output sink current is specified.</p> <p>The maximum allowable negative voltage (with respect to ground) that may be applied to the (-) supply terminal and still guarantee proper device operation.</p> <p>The maximum allowable positive voltage (with respect to ground) that may be applied to the (+) supply terminal and still guarantee proper device operation.</p> <p>The maximum allowable power dissipation of the entire device.</p> <p>Special features or capabilities of the device</p> <p>Minimum allowable ambient operating temperature</p> <p>Maximum allowable ambient operating temperature</p> <p>The number of basic identical circuits contained per package.</p> <p>Indicates where schematic or logic diagram may be found</p> <p>Indicates where device packaging information may be found.</p>
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25. PARITY GENERATORS/CHECKERS

IN ORDER OF: (1) TECHNOLOGY (2) BITS
(3) PROPAGATION DELAY (4) TYPE NO.

LINE No.	TYPE NO.	DATA SH.	TECH	BITS	MAX. PROP. DELAY (S)	LOGIC LEVEL		MINIMUM SINK CURRENT (A)	POWER SUPPLY SPAN @ V_o	MAX. OPER. POWER DISS. (W)	FEATURES	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS	
						MIN. '1' (V)	MAX. '0' (V)							NEG (V)	POS (V)	LOGIC OR BLOCK	OUTLINE
★	★		★			★	★	★			★	★		★	★

★ — Symbols and codes explained on LC1

INTERPRETER — DIGITAL INTEGRATED CIRCUITS SYMBOLS & CODES EXPLAINED

SECTION 26

LATCHES

SECTION 26

TYPE NO.	The manufacturers designated type number for the device.
DATA SHEET	References page number of manufacturers supplied data sheet.
TECHNOLOGY	The main bipolar or MOS semiconductor technology of the device.
BITS	The number of parallel bits the device can simultaneously add.
PROPAGATION DELAY	The maximum time delay between the 50% points on the input and output waveforms when the output changes state due to a change of input state.
TYPE CODE	See list of codes for type of latches
LOGIC LEVEL '1'	The least positive (most negative) value of high level input voltage for which operation of the logic element within specification limits is guaranteed.
LOGIC LEVEL '0'	The most positive (least negative) value of low level input voltage for which operation of the logic element within specification limits is guaranteed.
SINK CURRENT	The current into the output terminal with input conditions applied that, according to product specifications, will establish a low level at the output
@ V_o	The voltage at which output sink current is specified.
POWER SUPPLY SPAN NEG	The maximum allowable negative voltage (with respect to ground) that may be applied to the (-) supply terminal and still guarantee proper device operation.
POWER SUPPLY SPAN POS	The maximum allowable positive voltage (with respect to ground) that may be applied to the (+) supply terminal and still guarantee proper device operation.
TOTAL PKG DISS.	The maximum allowable power dissipation of the entire device.
FEATURES	See list of abbreviations for available device features
TEMP LOW	Minimum allowable ambient operating temperature
TEMP HI	Maximum allowable ambient operating temperature
CKT PER MOD	The number of basic identical circuits contained per package.
LOGIC DWG NO.	Indicates where schematic or logic diagram may be found
OUTLINE DWG NO.	Indicates where device packaging information may be found.

26. LATCHES

IN ORDER OF: (1) TECHNOLOGY (2) BITS (3) PROPAGATION DELAY (4) TYPE CODE (5) TYPE NO.

LINE No.	TYPE NO.	DATA SHT.	TECH	BITS	MAX. PROP. DELAY (S)	TYPE CODE	LOGIC LEVEL		MINIMUM SINK CURRENT (A)	POWER SUPPLY SPAN @ V_o (C V)	POWER SUPPLY SPAN		MAX. OPER. POWER DISS. (W)	FEATURES	OPER. TEMP. RANGE CODE	CKTS PER MOD	DRAWINGS	
							MIN. '1' (V)	MAX. '0' (V)			NEG. (V)	POS. (V)					LOGIC OR BLOCK	OUTLINE

★ ★ ★ (7) ★ ★ ★ ★ ★ (15) ★ ★ ★ ★ ★

(7) D — D type
R/S — Reset/set type
T — Tri-State

(15) ADDR — Addressable
MULT — Multimode
NOR — NOR gate logic
NAND — NAND gate logic
COMP — Complement output

★ — Symbols and codes explained on LC1

DIGITAL INTEGRATED CIRCUITS — INTERPRETER SYMBOLS & CODES EXPLAINED

SECTION 27

SPECIAL DEVICES

SECTION 27

<p>TYPE NO. DATA SHEET TYPE CODE TECHNOLOGY MAX OPERATING FREQ LOGIC LEVEL '1' LOGIC LEVEL '0' POWER SUPPLY SPAN NEG POWER SUPPLY SPAN POS TOTAL PKG DISS. TEMP LOW TEMP HI DESCRIPTION LOGIC DWG NO. OUTLINE DWG NO.</p>	<p>The manufacturers designated type number for the device. References page number of manufacturers supplied data sheet. See List of Codes. The main bipolar or MOS semiconductor technology of the device. The maximum input frequency the device will reliably function at. The least positive (most negative) value of high level input voltage for which operation of the logic element within specification limits is guaranteed. The most positive (least negative) value of low level input voltage for which operation of the logic element within specification limits is guaranteed. The maximum allowable negative voltage (with respect to ground) that may be applied to the (-) supply terminal and still guarantee proper device operation. The maximum allowable positive voltage (with respect to ground) that may be applied to the (+) supply terminal and still guarantee proper device operation. The maximum allowable power dissipation of the entire device. Minimum allowable ambient operating temperature Maximum allowable ambient operating temperature Listing of Device Capabilities or Features Indicates where schematic or logic diagram may be found Indicates where device packaging information may be found.</p>
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27. SPECIAL DEVICES

IN ORDER OF:(1)TYPE CODE(2)TECHNOLOGY
(3)TYPE NO.

LINE No.	TYPE NO.	DATA SHEET.	1 TYPE CODE	2 TECH	MAX. FREQ. (Hz)	LOGIC LEVEL		POWER SUPPLY SPAN		MAX. OPER. POWER DISS (W)	OPER. TEMP. RANGE CODE - +	GENERAL DESCRIPTION	DRAWINGS		
						MIN. '1' (V)	MAX. '0' (V)	NEG. (V)	POS. (V)				LOGIC OR BLOCK	OUTLINE	
★	★		4	★	★	★	★			★	★	★	★	★	★

- | | |
|---|--|
| <p>4</p> <ul style="list-style-type: none"> 1 – Storage 2 – Generators 3 – Error Detection/Correction 4 – Logic | <ul style="list-style-type: none"> 5 – Controls/counters/converters 6 – Drivers/pre-drivers/scalers 7 – Encoder/decoders 8 – Bit Quantizer |
|---|--|

- | | | |
|--|---|---|
| <p>14</p> <ul style="list-style-type: none"> A – Gain Acc – Accuracy AMP – Amplifiers B – Base BCD – Binary-coded decimal BD – Board BIN – Binary C – Collector CKT – Circuit CL – Clamped CMS – CMOS COM – Common COMP – Complement CONT – Contract CONV – Converter DEC – Decimal DIG – Digits E – Emitter | <ul style="list-style-type: none"> FLTG – Floating Fo – Fan out GRD – Ground INT – Internally connected INCL – Included INV – Inverter Io – Output current LD – Load MAT – Matrix MUX – Multiplexer NC – No connection NCH – N-channel NEG – Negative OSC – Oscillator PCH – P-channel POS – Positive PROP – Propagation Rds – Drain-source On-resistance | <ul style="list-style-type: none"> RES – Resistor RESP – Respectively RT – Rating SENS – Sensitivity TC – Temp. Coeff. tOFF – Turn off delay time tON – Turn on delay time tpd – Propagation time trec – Recovery time top – Operating time tref – Release time VIO – Input offset voltage VoH – High output voltage VoL – Low output voltage SW – Switch Vth – Differential input threshold voltage W/ – With |
|--|---|---|

★ – Symbols and codes explained on LC1

INTERPRETER – DIGITAL INTEGRATED CIRCUITS SYMBOLS & CODES EXPLAINED

LOGIC/BLOCK DRAWINGS

DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE
40-00B	198	40-175	203	54LS21W	209	54-109W	215	54S374W	220	74-50N	226	74-154N	231
40H000	198	40H192	203	54-22W	209	54-110W	215	54LS375W	220	74L51N	226	74-155N	231
40-01B	198	40H193	203	54H22W	209	54-111W	215	54-376W	220	74LS51N	226	74-156N	231
40H002	198	40H259	203	54-23W	210	54S112W	215	54LS377W	220	74H52N	226	74-160N	231
40H004	198	40H273	203	54-25W	210	54S113W	215	54LS378W	220	74-53N	226	74-161N	231
40-08B	198	40-373	203	54-27W	210	54S114W	215	54LS381	220	74H53N	226	74-162N	232
40H008	198	40H373	203	54-30W	210	54-116W	215	54LS382	221	74H54N	226	74-163N	232
40-09A	198	40-374	203	54S30W	210	54-121	215	54LS384	221	74L54N	226	74-167N	232
40H010	198	40H374	204	54-32W	210	54-122	215	54LS385W	221	74H55N	226	74S168N	232
40-11B	198	40H375	204	54-33W	210	54-123	215	54LS386W	221	74-60N	227	74S169N	232
40H011	198	40H386	204	54-40W	210	54LS124	216	54-390W	221	74H61N	227	74-173	232
40-13B	198	40H390	204	54-41	210	54S133W	216	54-393W	221	74H62N	227	74-174N	232
40-17B	199	40H393	204	54LS42W	210	54S134W	216	54-406	221	74S64N	227	74-175N	232
40-18B	199	44-02B	204	54-43W	210	54S135W	216	54-408W	221	74S65N	227	74-176N	232
40-20B	199	44-04B	204	54-44W	210	54-136W	216	54-490W	221	74-70N	227	74-177N	232
40H020	199	44-08	204	54-45W	211	54S138W	216	54-521	221	74H71N	227	74-180N	232
40H021	199	44-09	204	54-46W	211	54S139W	216	54LS533W	221	74L71N	227	74-181	233
40-22B	199	44-12B	205	54-50W	211	54-141W	216	54LS534W	221	74-73N	227	74-182	233
40-23B	199	44-28B	205	54-51W	211	54-154W	216	54LS563W	222	74-74N	227	74H183N	233
40-25B	199	44-45B	205	54L51T	211	54-155W	216	54LS564W	222	74-75N	227	74-190N	233
40-27B	199	44-90B	205	54LS51W	211	54-156W	216	54LS568W	222	74LS76N	228	74-191N	233
40H027	199	45-08B	205	54S51W	211	54-160W	216	54-569W	222	74LS77N	228	74-192N	233
40-28B	199	45-10B	205	54H52W	211	54-161W	217	54LS573W	222	74H78N	228	74-193N	233
40-29B	199	45-11B	205	54-53W	211	54-162W	217	54LS574W	222	74L78N	228	74-221N	233
40-32B	200	45-14B	205	54H53W	211	54-163W	217	74-00N	223	74-80N	228	74S240N	233
40H032	200	45-15B	205	54-54W	211	54S168W	217	74-01N	223	74-82N	228	74S241N	233
40140-37A	200	45-16B	205	54H54W	211	54S169W	217	74-02N	223	74-83	228	74LS244N	233
40-37B	200	45-18B	205	54L54T	212	54-173W	217	74H02P	223	74-85N	228	74-246	234
40-38B	200	45-20B	205	54LS54N	212	54-175W	217	74-03N	223	74L85N	228	74-248	234
40-39A	200	45-21B	206	54H55W	212	54-176W	217	74-04N	223	74-86N	228	74LS256N	234
40-40B	200	45-22B	206	54-60W	212	54-177W	217	74-05N	223	74L86N	228	74-259N	234
40-42B	200	45-26B	206	54H61W	212	54-180W	217	74-06	223	74H87N	228	74S260N	234
40H042	200	45-27B	206	54H62W	212	54-182	217	74-08N	223	74H89N	229	74LS261	234
40-43B	200	45-28B	206	54S64W	212	54H183W	217	74-09N	223	74-90N	229	74-265N	234
40-44B	200	45-31B	206	54-565W	212	54-190W	218	74-10N	223	74-92N	229	74LS266N	234
40-47	200	45-34B	206	54-70W	212	54-191W	218	74-11N	223	74L93N	229	74-273N	234
40H051	201	45-36B	206	54H71W	212	54-192W	218	74-12N	224	74LS93N	229	74S274	234
40-60A	201	45-41	206	54L71T	213	54-193W	218	74-13N	224	74-100N	229	74S275	234
40-68B	201	45-53B	206	54-73W	213	54-221	218	74-15	224	74H103	229	74-276	234
40-69	201	45-55B	207	54-74W	213	54LS256W	218	74H15N	224	74-104N	229	74-279N	235
40-71B	201	45-60B	207	54S74N	213	54-259W	218	74-16	224	74-105N	229	74S280N	235
40-72B	201	45-85B	207	54S74W	213	54S260W	218	74LS18	224	74-107N	229	74-283N	235
40-73B	201	54-00W	208	54-75W	213	54LS261	218	74LS19	224	74-109N	229	74-284	235
40H074	201	54S00W	208	54LS76W	213	54-265W	218	74-20	224	74LS109N	229	74-285	235
40-75B	201	54-01W	208	54-77W	213	54LS266	218	74H20	224	74-111N	230	74-290N	235
40H076	201	54LS01W	208	54H78W	213	54LS273W	218	74-21	224	74LS112N	230	74LS292	235
40-78B	202	54-02W	208	54L78T	213	54-279W	219	74H21N	224	74LS113N	230	74-293N	235
40-81B	202	54S02W	208	54-80W	213	54S280W	219	74-22N	224	74LS114N	230	74LS294	235
40-82B	202	54S03W	208	54-82W	213	54-283	219	74-23N	225	74-116N	230	74LS320	235
40-85B	202	54S04W	208	54-83	214	54-284	219	74LS24	225	74H116P	230	74LS321	235
40-86B	202	54S05W	208	54-85W	214	54-285	219	74-25N	225	74H119P	230	74LS324	235
40-89B	202	54S08W	208	54-86W	214	54-290W	219	74-27N	225	74-121	230	74LS325	236
40-95B	202	54S09W	208	54L86T	214	54LS292	219	74-30N	225	74-122	230	74LS326	236
40-107B	202	54-10W	208	54H87W	214	54-293W	219	74-32N	225	74-123	230	74LS327	236
40H138	202	54S10W	209	54-90W	214	54LS294	219	74-33N	225	74LS124	230	74LS363	236
40H139	202	54H11W	209	54-92W	214	54LS320	219	74-41N	225	74-133	230	74LS364N	236
40H155	202	54S11W	209	54L93T	214	54LS321	219	74-42N	225	74S133	231	74-365N	236
40H160	202	54-13W	209	54LS93W	214	54LS324	219	74-43N	225	74LS133N	231	74-366N	236
40H161	203	54H15W	209	54-97	214	54LS325	220	74-44N	225	74S134N	231	74-367N	236
40H162	203	54-18	209	54-100W	214	54LS326	220	74-45N	225	74S135N	231	74-368N	236
40H163	203	54LS19	209	54H103	214	54LS327	220	74-46N	226	74-136N	231	74LS373	236
40H174	203	54-20W	209	54-104W	215	54LS363	220	74-48N	226	74S138N	231	74-374	236
		54H21W	209	54-107F	215	54LS374W	220	74LS49N	226	74S139N	231	74LS374	237

DIGITAL INTEGRATED CIRCUITS – INTERPRETER SYMBOLS & CODES EXPLAINED

LOGIC/BLOCK DRAWINGS

DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE		
74LS375	237	A02-02	243	B02-295	250	B08-94	259	C04-51	267	E01-157	278	E02-165	289
74-376N	237	A02-05	243	B02-297	250	B08-95	259	C04-52	268	E01-158	278	E02-166	289
74LS377N	237	A02-18	243	B02-301	251	B08-96	260	C06-12	268	E01-160	278	E02-167	289
74LS378N	237	A02-19	243	B02-303	251	B08-97	260	C06-13	268	E01-161	278	E02-168	290
74S381	237	A02-21	243	B02-304	251	B08-100	260	C07-01	268	E01-162	278	E02-169	290
74LS382N	237	A02-27	244	B02-312	251	B08-102	260	C07-02	268	E01-163	279	E02-170	290
74LS384	237	A02-35	244	B02-314	251	B08-103	260	C07-03	268	E01-164	279	E02-173	290
74LS385N	237	A02-42	244	B02-324	251	B08-104	260	C07-04	269	E01-165	279	E02-175	290
74-390N	237	A02-47	244	B02-325	251	B08-105	260	C07-05	269	E01-166	279	E02-181	291
74-393N	237	A02-49	244	B02-326	251	B08-106	260	C07-06	269	E01-167	280	E02-182	291
74-406	237	A02-50	244	B02-327	251	B08-107	260	C07-07	269	E01-168	280	E02-183	291
74-408P	238	A02-51	245	B02-328	252	B08-112	260	C07-08	269	E01-169	280	E02-184	291
74S412	238	A03-1	245	B02-329	252	B08-113	260	C08-01	269	E01-170	280	E02-185	292
74-415N	238	A03-2	245	B03-8	252	B08-115	260	C08-02	269	E01-171	280	E02-186	292
74-416N	238	B02-21	245	B03-8a-aa	252	B08-117	261	C08-04	270	E01-172	280	E02-187	292
74-417N	238	B02-42	245	B03-56	252	B08-122	261	C08-08	270	E01-173	280	E02-189	292
74-418N	238	B02-62	245	B03-95	253	B08-123	261	C08-09	270	E01-181	280	E02-190	292
74-419N	238	B02-67	245	B03-97	253	B08-124	261	C08-10	270	E02-34	281	E02-191	292
74-421	238	B02-87	245	B03-117	253	B08-131	261	C08-11	270	E02-35	281	E02-192	292
74-422	238	B02-88	245	B03-127	253	B08-137	261	C08-12	271	E02-46	281	E02-194	292
74LS424	238	B02-88a	245	B03-131	253	B08-140	261	C08-13	271	E02-48	281	E02-195	292
74LS442	238	B02-91	246	B03-150	253	B08-143	261	C08-14	271	E02-51	281	E02-196	293
74-450	238	B02-91a-d	246	B03-153	253	B08-143a	261	C08-15	271	E02-53	282	E02-197	293
74-451	239	B02-92	246	B03-156	254	B08-144	261	E01-10	272	E02-53a	282	E02-198	293
74-462	239	B02-92a-e	246	B04-19	254	B08-144a	261	E01-31	272	E02-59	282	E02-199	293
74-490	239	B02-94	246	B04-19a-f	254	B08-146	261	E01-35	272	E02-67	283	E02-200	293
74LS521	239	B02-94a-c	246	B04-42	254	B08-147	262	E01-36	272	E02-69	283	E02-201	294
74LS533N	239	B02-101	246	B04-52	254	B08-148	262	E01-46	272	E02-71	284	E02-202	294
74LS534N	239	B02-101a	246	B04-87	254	B08-149	262	E01-50	272	E02-72	284	E02-203	294
74-558N	239	B02-103	246	B04-92	254	B08-150	262	E01-54	272	E02-79	284	E02-203a	294
74LS563N	239	B02-106	246	B04-125	254	B08-152	262	E01-54a	272	E02-83	284	E02-204	295
74LS564N	239	B02-108	246	B04-125a	254	B08-153	262	E01-57	272	E02-88	284	E02-205	295
74LS568N	239	B02-108a	246	B04-129	254	B08-155	262	E01-62	273	E02-91	285	E02-206	295
74LS569N	239	B02-134	246	B04-136	254	B08-156	263	E01-69	273	E02-93	285	E02-207	295
74LS573N	240	B02-139	246	B04-137	254	B08-157	263	E01-73	273	E02-94	285	E02-208	295
74LS574N	240	B02-148	246	B05-31	255	B08-158	263	E01-77	273	E02-97	285	E02-209	296
74AS576	240	B02-149	247	B05-31a	255	B08-158a	263	E01-78	273	E02-100	285	E02-210	296
74AS580	240	B02-154	247	B05-35	255	B08-160	263	E01-79	273	E02-103	285	E03-26	296
74LS604	240	B02-173	247	B05-36	255	C01-14	263	E01-83	274	E02-104	286	E03-35	296
74LS605	240	B02-187	247	B06-19	255	C01-15	263	E01-93	274	E02-107	286	E03-39	297
74LS606	240	B02-188	247	B06-28	255	C01-16	263	E01-98	275	E02-110	286	E03-47	297
74LS607	240	B02-200	247	B06-29	255	C01-19	264	E01-99	275	E02-116	286	E03-48	297
74AS800	240	B02-203	247	B08-10	256	C01-21	264	E01-103	275	E02-119	286	E03-50	297
74AS802	240	B02-203a	247	B08-10a-c	256	C01-25	264	E01-103a	275	E02-122	286	E03-53	297
74AS804	240	B02-237	247	B08-16	256	C01-27	264	E01-106	275	E02-123	286	E03-56	298
74AS808	240	B02-238	248	B08-22	256	C01-29	264	E01-113	275	E02-124	287	E03-58	298
74AS832	241	B02-238a	248	B08-23	256	C01-30	264	E01-116	275	E02-125	287	E03-59	298
74AS882	241	B02-239	248	B08-32	257	C01-31	264	E01-124	276	E02-126	287	E03-64	298
74AS882N	241	B02-242	248	B08-33	258	C01-32	265	E01-128	276	E02-127	287	E03-67	298
74LS882N	241	B02-243	248	B08-37	258	C01-34	265	E01-136	276	E02-128	287	E03-68	298
74C922	241	B02-243a	248	B08-38	258	C01-35	265	E01-139	276	E02-131	287	E03-72	299
74C923	241	B02-245	249	B08-44	258	C01-36	265	E01-140	276	E02-135	287	E03-73	299
74ALS1000	241	B02-245a	249	B08-45	258	C03-10	265	E01-141	276	E02-136	287	E03-74	299
74ALS1002	241	B02-247	249	B08-54	259	C03-11	265	E01-142	276	E02-143	287	E03-75	299
74ALS1003	241	B02-250	249	B08-63	259	C03-23	266	E01-143	276	E02-152	288	E03-76	300
74ALS1020	241	B02-257	249	B08-63a	259	C03-26	266	E01-149	276	E02-153	288	E03-77	300
75-11N	241	B02-266	249	B08-72	259	C04-35	266	E01-150	277	E02-154	288	E03-79	300
75-12	241	B02-268	249	B08-75	259	C04-37	266	E01-151	277	E02-155	288	E03-80	300
75-52	242	B02-269	250	B08-82	259	C04-46	267	E01-152	277	E02-158	288	E03-82	300
75-53N	242	B02-271	250	B08-83	259	C04-47	267	E01-153	277	E02-159	288	E03-83	301
75-54	242	B02-286	250	B08-87	259	C04-48	267	E01-154	277	E02-160	288	E03-84	301
75-55	242	B02-287	250	B08-92	259	C04-49	267	E01-155	277	E02-161	288	E03-85	301
75-56	242	B02-290	250	B08-93	259	C04-50	267	E01-156	278	E02-163	288	E03-86	301

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E03-88	301	F01-77	312	G01-291	319	G02-210	325	G03-282	331	G04-217	337	G04-478	342
E03-89	301	F01-78	313	G01-292	319	G02-211	325	G03-283	332	G04-217a-b	337	G04-479	343
E03-90	301	F01-79	313	G01-293	319	G02-212	325	G03-288	332	G04-218	337	G04-480	343
E03-91	302	F01-80	313	G01-298	320	G02-213	325	G03-289	332	G04-227	337	G04-481	343
E03-92	302	F01-81	313	G01-299	320	G02-214	325	G03-289a	332	G04-227a-e	337	G04-485	343
E03-94	302	F01-82	313	G01-300	320	G02-215	325	G03-290	332	G04-236	337	G04-495	343
E03-95	303	F02-36	313	G01-301	320	G02-216	326	G03-291	332	G04-237	337	G04-496	343
E03-96	303	F02-55	313	G01-302	320	G02-217	326	G03-292	332	G04-240	338	G04-502	343
E03-97	303	F02-121	314	G01-303	320	G02-223	326	G03-293	332	G04-258	338	G04-503	343
E05-3	304	F02-122	314	G01-304	320	G02-224	327	G03-294	332	G04-258a	338	G04-508	343
E05-10	304	F02-123	314	G01-305	320	G02-227	327	G03-295	332	G04-273	338	G04-509	343
E05-13	304	F04-1	314	G01-306	320	G02-228	327	G03-296	332	G04-273a-g	338	G04-511	343
E05-17	304	F17-6	314	G01-307	321	G02-229	327	G03-297	333	G04-322	338	G04-517	344
E05-18	304	F18-2	314	G01-309	321	G02-230	327	G03-300	333	G04-323	338	G04-518	344
E05-19	304	F18-3	314	G01-310	321	G02-231	327	G03-303	333	G04-325	339	G04-519	344
E05-23	304	F18-4	314	G01-312	321	G02-232	327	G03-303a-b	333	G04-325a-c	339	G04-522	344
E05-29	305	F18-5	315	G01-313	321	G02-233	328	G03-305	333	G04-345	339	G04-523	344
E05-30	305	F19-1	315	G01-314	321	G03-27	328	G03-306	333	G04-345a-e	339	G04-524	344
E05-31	305	F19-2	315	G02-18	321	G03-29	328	G03-307	333	G04-352	339	G04-525	344
E06-7	305	F19-3	315	G02-19	321	G03-36	328	G03-308	333	G04-352c-d	339	G04-526	344
E06-8	305	F23-2	315	G02-24	321	G03-58	328	G03-309	333	G04-362	339	G04-527	344
E06-9	305	F23-3	315	G02-24a	321	G03-66	328	G03-310	333	G04-362a	339	G04-528	344
E06-15	306	G01-3	316	G02-78	321	G03-77	328	G03-310a	333	G04-364	339	G04-530	344
E06-17	306	G01-85	316	G02-78a-e	321	G03-80	328	G03-311	333	G04-376	339	G04-531	344
E06-25	306	G01-85A	316	G02-105	322	G03-89	328	G03-312	334	G04-376a	339	G04-532	345
E06-26	306	G01-156	316	G02-120	322	G03-89	328	G03-313	334	G04-381	339	G04-533	345
E06-27	306	G01-158	316	G02-120b	322	G03-121	328	G03-314	334	G04-382	339	G04-534	345
E06-28	307	G01-159	316	G02-132	322	G03-121a-e	328	G03-314	334	G04-382	339	G04-534	345
E06-28	307	G01-159	316	G02-132	322	G03-122	329	G03-315	334	G04-383	339	G04-535	345
E06-29	307	G01-163	316	G02-137	322	G03-124	329	G03-318	334	G04-384	339	G04-536	345
E06-32	307	G01-164	316	G02-138	322	G03-126	329	G03-318	334	G04-384	339	G04-536	345
E06-33	307	G01-177	316	G02-139	322	G03-126	329	G03-322	334	G04-395	340	G04-537	345
E06-33	307	G01-177	316	G02-139	322	G03-131a-g	329	G03-323	334	G04-397	340	G04-538	345
E06-34	307	G01-179	316	G02-139a	322	G03-151	329	G03-324	334	G04-397a	340	G04-539	345
E07-3	308	G01-191	317	G02-161	322	G03-153a	329	G03-325	334	G04-400	340	G04-540	345
E07-5	308	G01-192	317	G02-162	322	G03-154	329	G03-326	334	G04-400a-c	340	G04-541	346
E07-5	308	G01-210	317	G02-163	323	G03-180	329	G03-327	335	G04-404	340	G05-79	346
E09-01	308	G01-215	317	G02-164	323	G03-180a-j	329	G03-328	335	G04-416	340	G05-90	346
E09-02	308	G01-223	317	G02-165	323	G03-181	329	G04-1	335	G04-417	340	G05-92	346
E10-01	308	G01-226	317	G02-166	323	G03-202	329	G04-1d-e	335	G04-417a-b	340	G05-97	346
E11-01	308	G01-226a	317	G02-167	323	G03-205	329	G04-3	335	G04-428	340	G05-104	346
F01-19	309	G01-229	317	G02-168	323	G03-210	330	G04-3aw	335	G04-428a	340	G05-106	346
F01-20	309	G01-230	317	G02-169	323	G03-211	330	G04-3ax	335	G04-429	341	G05-107	346
F01-20a-m	309	G01-232	317	G02-177	324	G03-212	330	G04-3ba	335	G04-429a	341	G05-108	347
F01-22	309	G01-234	317	G02-178	324	G03-212a	330	G04-3bb	335	G04-432	341	G05-110	347
F01-22a	309	G01-235	317	G02-178a	324	G03-213	330	G04-27	335	G04-432a-d	341	G05-116	347
F01-28	309	G01-239	318	G02-179	324	G03-218	330	G04-27k	335	G04-435	341	G05-117	347
F01-28a-b	309	G01-246	318	G02-179a	324	G03-218a-d	330	G04-27m-n	335	G04-436	341	G05-122	348
F01-31	309	G01-256	318	G02-188	324	G03-221	330	G04-27r	335	G04-436a	341	G05-124	348
F01-37	310	G01-260	318	G02-193	324	G03-237	330	G04-70	335	G04-446	341	G05-126	348
F01-37a-b	310	G01-261	318	G02-193a-b	324	G03-242	330	G04-71	335	G04-447	341	G05-129	348
F01-46	310	G01-262	318	G02-194	324	G03-260	330	G04-80	335	G04-447a	341	G05-130	348
F01-50	310	G01-263	318	G02-194a	324	G03-260a	330	G04-81	335	G04-448	341	G05-131	348
F01-60	311	G01-264	318	G02-195	324	G03-263	330	G04-89	336	G04-449	342	G05-132	348
F01-63	311	G01-265	318	G02-196	324	G03-265	330	G04-89a-m	336	G04-452	342	G05-133	349
F01-64	311	G01-266	319	G02-197	324	G03-266	331	G04-92	336	G04-453	342	G05-135	349
F01-65	311	G01-267	319	G02-198	324	G03-270	331	G04-92a-j	336	G04-454	342	G05-138	349
F01-66	311	G01-268	319	G02-199	324	G03-271	331	G04-154	336	G04-455	342	G06-56	349
F01-67	311	G01-274	319	G02-200	324	G03-272	331	G04-154a-f	336	G04-464	342	G06-56a-c	349
F01-68	311	G01-275	319	G02-204	325	G03-276	331	G04-191	336	G04-465	342	G06-57	349
F01-70	311	G01-276	319	G02-205	325	G03-277	331	G04-191a	336	G04-470	342	G06-61	349
F01-73	312	G01-282	319	G02-206	325	G03-278	331	G04-211	337	G04-470a	342	G06-61a-y	349
F01-74	312	G01-283	319	G02-207	325	G03-279	331	G04-211a	337	G04-471	342	G06-67	349
F01-75	312	G01-286	319	G02-208	325	G03-280	331	G04-212	337	G04-472	342	G06-86	350

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G06-86a-c	350	H01-23	357	H03-79	366	J05-116	375	K05-10	387	K07-32	401	LOO-82	411
G06-94	350	H01-24	358	H03-79a	366	J05-117	375	K05-14	387	K07-33	402	LOO-83	411
G06-94a-e	350	H01-24a	358	H03-81	366	J05-119	375	K05-15	387	K07-34	402	LOO-84	411
G06-98	350	H01-26	358	H03-82	366	J05-120	376	K05-19	387	K07-35	402	LOO-85	411
G06-98a-b	350	H01-27	358	H03-83	366	J06-01	376	K05-21	387	K08-1	402	LOO-86	411
G06-107	350	H01-28	358	H03-84	366	J06-02	376	K05-24	388	K09-18	402	LOO-87	412
G06-109	350	H01-28a-c	358	H03-85	366	J06-03	376	K05-27	388	K09-48	403	LOO-88	412
G06-109a	350	H01-32	358	H03-86	366	J06-04	376	K05-28	388	K09-49	403	LOO-90	412
G06-111	350	H01-32a	358	H03-87	367	J06-07	376	K05-29	388	K09-51	403	LOO-91	412
G06-134	350	H01-34	358	H04-02	367	J06-08	377	K05-30	389	K09-58	403	LOO-95	413
G06-134a	350	H01-34a-c	358	H04-03	367	J06-12	377	K05-33	389	K11-1	403	LO-102	413
G06-152	350	H01-35	358	H04-04	367	J06-13	377	K05-34	389	LOO-1	404	LO-106	413
G06-161	350	H01-36	358	J02-1	368	J06-14	377	K05-35	390	LOO-2	404	LO-111	413
G06-162	350	H01-37	358	J02-2	368	J06-15	377	K05-36	390	LOO-3	404	LO-114	413
G06-170	350	H02-3	359	J02-3	368	J06-16	377	K05-37	390	LOO-8	404	LO-115	413
G06-179	351	H02-4	359	J02-4	368	J07-01	377	K05-38	390	LOO-11	404	LO-117	413
G07-1	351	H02-5	359	J02-5	368	J07-02	377	K05-39	390	LOO-12	404	LO-118	413
G07-4	351	H02-7	359	J03-3	369	J07-03	378	K06-1	390	LOO-13	405	LO-120	413
G07-5	351	H02-9	360	J03-4	369	J07-04	378	K06-3	391	LOO-14	405	LO-121	414
G07-7	351	H02-10	360	J03-5	369	J07-05	378	K06-4	391	LOO-15	405	LO-122	414
G08-03	351	H02-11	360	J03-6	369	J07-07	378	K06-5	391	LOO-16	405	LO-123	414
G08-04	351	H02-12	360	J03-7	369	J07-08	378	K06-7	392	LOO-17	405	LO-124	414
G08-05	351	H02-13	360	J03-8	370	J07-10	379	K06-12	392	LOO-20	405	LO-125	414
G08-06	351	H02-14	360	J03-9	370	K01-2	379	K06-13	392	LOO-21	405	LO-126	414
G08-07	351	H02-15	360	J03-10	370	K01-3	379	K06-14	392	LOO-22	405	LO-127	414
G08-08	352	H02-16	361	J03-11	370	K01-4	379	K06-15	393	LOO-23	406	LO-128	414
G08-09	352	H03-1	361	J03-12	370	K01-5	379	K06-16	393	LOO-27	406	LO-131	415
G08-10	352	H03-2	361	J03-14	370	K01-6	379	K06-17	393	LOO-28	406	LO-132	415
G08-11	352	H03-3	362	J03-15	371	K02-3	379	K06-18	394	LOO-29	406	LO-133	415
G08-14	352	H03-4	362	J03-16	371	K02-5	379	K06-19	394	LOO-33	406	LO-134	415
G08-15	352	H03-7	362	J04-33	371	K02-13	380	K06-20	395	LOO-35	406	LO-137	415
G08-16	352	H03-8	362	J04-33a-b	371	K02-21	380	K06-21	395	LOO-36	406	LO-138	416
G08-17	352	H03-10	363	J04-38	371	K02-28	380	K06-23	396	LOO-37	406	LO-139	416
G08-19	352	H03-11	363	J04-38a	371	K02-29	380	K06-24	396	LOO-38	407	NOO-2	416
G08-20	352	H03-13	363	J04-40	371	K02-36	380	K06-151	396	LOO-39	407	NOO-3	416
G08-21	353	H03-14	363	J04-42	371	K02-40	380	K06-152	396	LOO-43	407	NOO-4	416
G08-22	353	H03-16	363	J05-25	371	K02-41	380	K06-153	396	LOO-44	407	NOO-5	417
G08-23	353	H03-17	363	J05-26	371	K02-42	381	K06-154	397	LOO-45	407	NOO-7	417
G08-24	353	H03-20	363	J05-45	371	K02-43	381	K06-159	397	LOO-46	407	NOO-8	417
G11-1	353	H03-22	364	J05-45a	371	K02-44	381	K06-160	397	LOO-47	407	NOO-9	418
G15-01	353	H03-45	364	J05-59	372	K02-45	382	K06-163	398	LOO-48	407	NOO-10	418
G17-01	353	H03-46	364	J05-63	372	K02-46	382	K07-2	398	LOO-50	408	NOO-11	418
G17-02	353	H03-48	364	J05-71	372	K03-2	382	K07-5	398	LOO-51	408	NOO-12	418
G17-03	353	H03-50	364	J05-82	372	K03-3	382	K07-6	398	LOO-55	408	NOO-13	419
G17-04	354	H03-51	364	J05-82a	372	K03-5	383	K07-7	398	LOO-56	408	NOO-14	419
G17-05	354	H03-52	364	J05-87	372	K03-20	383	K07-8	398	LOO-59	408	NOO-15	419
G17-06	354	H03-55	365	J05-86	372	K03-21	383	K07-9	399	LOO-60	408	NOO-18	419
G17-17	354	H03-58	365	J05-89	372	K03-22	383	K07-11	399	LOO-61	408	NOO-20	419
H01-1	354	H03-59	365	J05-98	373	K03-23	384	K07-13	399	LOO-65	409	NOO-21	420
H01-4	354	H03-61	365	J05-98a-c	373	K03-24	384	K07-14	399	LOO-67	409	NOO-23	420
H01-5	355	H03-62	365	J05-99	373	K04-4	385	K07-17	399	LOO-68	409	NOO-24	420
H01-7	355	H03-63	365	J05-100	373	K04-10	385	K07-18	399	LOO-69	409	NOO-26	420
H01-8	355	H03-64	365	J05-100a	373	K04-11	385	K07-19	399	LOO-70	409	NOO-29	421
H01-9	355	H03-65	365	J05-102	374	K04-12	385	K07-20	399	LOO-71	410	NOO-30	421
H01-12	355	H03-66	366	J05-103	374	K04-15	385	K07-21	400	LOO-72	410	NOO-31	422
H01-13	355	H03-66a-d	366	J05-104	374	K04-16	385	K07-22	400	LOO-73	410	NOO-32	422
H01-14	356	H03-67	366	J05-107	374	K04-17	386	K07-23	400	LOO-74	410	NOO-33	422
H01-16	356	H03-67a	366	J05-109	374	K04-20	386	K07-24	400	LOO-75	410	NOO-34	422
H01-17	357	H03-68	366	J05-110	374	K04-25	386	K07-25	401	LOO-76	410	NOO-36	422
H01-19	357	H03-75	366	J05-111	374	K04-26	386	K07-26	401	LOO-77	410	NOO-38	422
H01-20	357	H03-75a	366	J05-112	375	K04-27	386	K07-29	401	LOO-78	410	NOO-39	423
H01-21	357	H03-76	366	J05-113	375	K04-28	386	K07-30	401	LOO-79	411	NOO-41	423
H01-22	357	H03-76a	366	J05-114	375	K05-1	386	K07-31	401	LOO-80	411	NOO-42	423

INTERPRETER – DIGITAL INTEGRATED CIRCUITS SYMBOLS & CODES EXPLAINED

LOGIC/BLOCK DRAWINGS

DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE		
POO-1	424	POO-21	425	SOO-9	427	UOO-13	429	UOO-30	433	XOO-14	435	XOO-40	439
POO-3	424	POO-22	425	SOO-10	427	UOO-15	430	XOO-1	433	XOO-15	436	XOO-42	439
POO-5	424	POO-23	425	SOO-11	427	UOO-17	431	XOO-2	434	XOO-16	436	XOO-43	439
POO-7	424	POO-24	425	UOO-1	427	UOO-18	431	XOO-3	434	XOO-17	437	XOO-44	440
POO-8	424	POO-25	426	UOO-2	427	UOO-19	431	XOO-4	434	XOO-17a	437	XOO-46	440
POO-11	424	POO-29	426	UOO-3	428	UOO-21	432	XOO-5	435	XOO-18	437	XOO-47	440
POO-13	424	SOO-2	426	UOO-5	428	UOO-22	432	XOO-6	435	XOO-19	437	XOO-48	440
POO-14	424	SOO-3	426	UOO-7	428	UOO-25	432	XOO-10	435	XOO-20	437	XOO-49	440
POO-15	425	SOO-4	426	UOO-8	428	UOO-26	433	XOO-11	435	XOO-21	437	XOO-50	440
POO-16	425	SOO-6	426	UOO-9	429	UOO-28	433	XOO-12	435	XOO-23	438		
POO-19	425	SOO-8	427	UOO-10	429	UOO-29	433	XOO-13	435	XOO-39	438		

OUTLINE DRAWINGS

DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE		
CB31	441	CN58a-b	443	DL28a-r	469	FP85	473	FP127	476	LC13	481	SL4B	486
CB53	441	CN67	443	DL40	470	FP87	473	FP129	476	LC14	481	SL7A	486
CH18	441	CN71	443	DL40a-p	470	FP87a	473	FP130	476	LC15	482	SL8A	486
CH19	441	CN71a-c	443	DL42	470	FP88	473	FP131	476	MD2A	482	SL8B	486
CH110	441	CN76	443	DL42a	470	FP88a-c	473	FP134	477	MD3A	482	SL10A	486
CH113	441	CN77	443	DL48	471	FP93	474	FP136	477	MD4A	482	TO5	487
CH126	441	CN79	443	DL48a-c	471	FP93a-c	474	FP137	477	MD5	483	TO8	487
CH127	441	DL6	450	DL64	471	FP97	474	FP138	477	MD5A	483	TO12	487
CH128	441	DL6a	450	DL64a-d	471	FP97a-c	474	FP139	477	MD7A	483	TO33	487
CH129	441	DL8	450	FP21	472	FP98	474	FP140	477	MD14A	483	TO72	487
CH130	441	DL8a-am	450	FP26	472	FP98a-b	474	FP141	477	MD14B	483	TO77	487
CH131	441	DL10	452	FP26a-k	472	FP101	474	FP142	477	MD14C	483	TO84	487
CH132	441	DL10a	452	FP28	472	FP101a-b	474	FP143	477	MD14D	483	TO85	487
CH133	441	DL12	452	FP28a-h	472	FP103	474	FP144	477	MD14E	483	TO86	487
CH134	441	DL12a	452	FP39	472	FP105	474	FP145	477	MD14F	484	TO88	488
CN2	441	DL14	452	FP39a-h	472	FP106	475	FP146	477	MD16A	484	TO89	488
CN6	442	DL14a-do	452	FP47	472	FP107	475	FP147	477	MD20A	484	TO96	488
CN6a-g	442	DL16	457	FP47a-g	472	FP107a	475	FP148	478	MO001	484	TO99	488
CN13	442	DL16a-eb	457	FP48	472	FP109	475	FP149	479	MO001AA-AL	484	TO100	488
CN13a-c	442	DL18	463	FP52	472	FP109a	475	FP150	479	MO002	484	TO101	488
CN27	442	DL18a	463	FP52a-k	472	FP115	475	FP151	479	MO002AA-AL	484	TO116	489
CN38	442	DL20	464	FP59	473	FP116	475	FP152	479	MO004	485		
CN38a-b	442	DL20am	464	FP59a-c	473	FP117	475	FP153	480	MO004AA-AH	485		
CN44	442	DL22	466	FP66	473	FP118	475	FP154	480	MO015	485		
CN44a-b	442	DL22a-d	466	FP66a	473	FP121	476	FP156	480	MO015AA-AN	485		
CN46	443	DL24	466	FP79	473	FP122	476	LC10	480	MO019	486		
CN46a-b	442	DL24a-bm	466	FP79a-b	473	FP125	476	LC11	481	MO019AA-AD	486		
CN58	443	DL28	469	FP80	473	FP126	476	LC12	481	SL3A	486		

SYMBOLS & CODES COMMON TO D.A.T.A. DIGITAL I.C. BOOK

LOGIC LEVELS

- * - Minimum
- Δ - Maximum
- § - 3-state device
- ⊕ - Open collector

POWER DISSIPATION

- † - Typical
- ▣ - Absolute maximum
- % - Quiescent power dissipation

LINE NO.

- ▼ - New type
- ◆ - Revised specification
- # - Non-JEDEC type manufactured outside U.S.A.

TYPE NUMBER

- Δ { Indicators of separate manufacturers producing same type number (non-JEDEC) whose characteristics are not the same. This manufacturer-identifying symbol # (assigned by D.A.T.A.) is an integral part of the type number (in Type No. Cross Index, Technical Data Sections) to avoid the possibility of confusing the device of one manufacturer with the devices of the others.
- RT - Suffix indicates device is a replacement type. Consult manufacturer for more information
- #1, #2, - The modifier is designated by D.A.T.A. to distinguish between type no. designations which give only one type no. but have more than one electrical function or package.
- % - Different suffixes for the same type number indicate availability of different packaging compositions; i.e., ceramics, plastics, etc. Consult manufacturer.
- #ai (A) - **Advanced Information**
- #MIL, (M) - **Indicates type is available with MIL-STD-883B Screening.**

TYPE OF or USE COLUMN

- | | | |
|--|--|--|
| <ul style="list-style-type: none"> A - Buffers/drivers can be used separately B - Gating included can be used separately C - Inverter included can be used separately D - Clamped operation variable level capability E - With internally connected buffers/drivers/gates F - With internally connected gating | <ul style="list-style-type: none"> G - With internally connected inverters H - Incandescent number display included J - Neon numeric display included K - Complement input used L - Includes buffer register M - Manufacturer indicates gate will operate on either connective function by changing the logic level convention | <ul style="list-style-type: none"> R - Reversible S - Both normal and inverted functions are available at separate output terminals T - Includes multiplexer input U - Variable or programmable modulo V - Device has latching capability W - Device has multiplexed outputs |
|--|--|--|

Continue

MANUFACTURERS' CODES, NAMES AND ADDRESSES

QPL MFR. DESIG.	FSCM/ NATO No.	D.A.T.A. MFRS.' CODE	
CDWN	34335	AMD	* Advanced Micro Devices, Inc., 901 Thompson Pl., Sunnyvale, CA 94086
		AMI	American Micro-Systems, Inc., 3800 Homestead Rd., Santa Clara, CA 95051
	24355	ANA	Analog Devices, Inc., 2 Technology Way, Norwood, MA 02062
		BELI	Bharat Electronics Ltd., Jalahalli, Bangalore 13, India
		DDC	* ILC Data Device Corp., 105 Wilbur Pl., Bohemia, NY 11716
	25034	DIS	Discon Industries, Inc., 61 SW 5th Ct., Pompano Beach, FL 33060
		DTL	Datel-Intersil Inc., 11 Cabot Blvd., Mansfield Industrial Park, Mansfield, MA 02048
	52063	EXR	Exar Integrated Systems, Inc., Box 62229, 750 Palomar Ave., Sunnyvale, CA 94088
	S0167	FCAJ	Fujitsu Limited, 1015 Kamikodanaka, Nakahara-ku, Kawasaki 211, Japan
	K1196	FERB	Ferranti Electronics Ltd., Fields New Rd., Chadderton, Oldham OL9 8NP, England
CFJ	07263	FSC	Fairchild - Digital Division, 333 Western Ave., S. Portland, MA 04106
		GTE	GTE Microcircuits Div., 2000 W. 14th St., Tempe, AZ 85281
CDWO	34371	HAS	Harris Semiconductor, P.O. Box 883, Melbourne, FL 32901
	S4742	HITJ	Hitachi Limited, 1800 Bering Dr., San Jose, CA 95112
CDPR	32293	INL	Intersil, Inc., 10701 N. Tantau Ave., MS 38, Cupertino, CA 95014
CECC	34649	ITL	Intel Corporation, 3065 Bowers Ave., Santa Clara, CA 95051
		LSC	LSI Computer Systems Inc., 1235 Walt Whitman Road, Melville, NY 11747
	S0293	MATJ	Matsushita Electronics Corp., (Panasonic), Semicon. Div., 1 Kotari-Yakemachi, Nagaokakyo, Kyoto 617, Japan
		MITJ	Mitsubishi Electric Corp., Kita-Itami Works, 401 Mizuhara, Itami-Shi, Hyogo-Ken, Post Code 664, Japan
		MLC	Master Logic, 761 E. Evelyn Ave., Sunnyvale, CA 94086
		MMI	Monolithic Memories, Inc., 1165 E. Arques Ave., Sunnyvale, CA 94086
CGG	04713	MOTA	Motorola Semiconductor Products Inc., 725 So. Madison St., Tempe, AZ 85281
	K0004	MULB	Mullard Limited, New Road, Mitcham, Surrey, England
	S0543	NECJ	Nippon Electric Co., 484 3 Chome Tsukagoshi Saiwai-ku, Kawasaki City, Japan
		NIT	Nitron, Inc., 10420 Bubb Rd., Cupertino, CA 95014
CCXP	27014	NSC	National Semiconductor, Microcircuits Div., 2900 Semiconductor Dr., Santa Clara, CA 95051
	S4071	OKIJ	OKI Electric Industry Co., Ltd., Electronic Prod. Sec. Intl. Div., 10-3 Shibaura 4-chome, Minato-ku, Tokyo 108, Japan

★ NEW MANUFACTURERS

* See Section 31 for Sales Office Listings

Contin

SYMBOLS & CODES COMMON TO D.A.T.A. DIGITAL I.C. BOOK

LOGIC TYPE _____

- BIP — Bipolar
- CDL — Capacitor Diode Logic
- CMS — CMOS
- CTL — Capacitor Transistor Logic
- DDL — Diode Logic
- DTL — Transistor Diode Logic
- ECL — Emitter-Coupled Logic
- ECT — Emitter Coupled Transistor Logic
- HNL — Hi Noise Immunity Logic
- IIL — Integrated Injection Logic
- ITL — Transformer Coupled Transistor Logic
- MTL — Core Transistor Logic
- NCH — N-Channel
- PCH — P-Channel
- RCT — Resistor Capacitor Transistor Logic
- RDL — Resistor Diode Logic
- RTL — Resistor Transistor Logic
- TFT — Thin Film Transistor Logic
- TTL — Transistor Coupled Logic
- VTL — Variable Threshold Logic

MAXIMUM OPERATING FREQUENCY _____

- T — Maximum toggle frequency
- \$ — Maximum clock rate

OUTLINE DRAWING COLUMN (Letter Prefix) _____

- CH — Chip package
- CN — TO5 type (not JEDEC outline)
- DL — Dual-in-line-pkg.
- FP — Flat package (not JEDEC outline)
- MD — Misc. Devices
- SL — Single-in-line
- TO — Standard JEDEC outline
- ZB — Multiple package possibilities and drawing reference information
- ☐ — Package style — actual dimensions not specified
- MO — MO standard JEDEC outline

MAXIMUM FAN OUT _____ (Per Circuit)

- NOTE: Fan Out computed at rated output sink current, based on following unit load factors:
- a — 1.6mA
 - b — 2.0mA
 - c — .80mA
 - d — .36mA
 - e — .18mA
 - f — 5.0pF U.L. (Prop delay specified at max. F.O.)
 - g — 250uA

LOGIC LEVEL "0" _____

C — Indicates values given are for output

OPERATING TEMPERATURE CODE _____

- 0 — 0 up to 9
 - 1 — 10 up to 19
 - 2 — 20 up to 29
 - 3 — 30 up to 39
 - 4 — 40 up to 49
 - 5 — 50 up to 59
 - 6 — 60 up to 69
 - 7 — 70 up to 79
 - 8 — 80 up to 89
 - 9 — 90 up to 99
 - A — 100 up to 109
 - B — 110 up to 119
 - C — 120 up to 129
 - D — 130 up to 139
 - E — 140 up to 149
 - F — 150 up to 159
 - G — 160 up to 169
 - H — 170 up to 179
 - J — 180 up to 189
 - K — 190 up to 199
- ▼ — Used in negative column to indicate both temps are positive
- Example of Operating Temp Range Code
- ```

 5 C
 / \
 / \
 / \
 / \
 / \
/ \
-50°C +120°C
and and
-59°C +129°C

```
- Min value lies between -50°C and -59°C
- Max value lies between +120°C and +129°C

## MANUFACTURERS' CODES, NAMES AND ADDRESSES

| OPL MFR. DESIG. | FSCM/ NATO No. | D.A.T.A. MFRS.' CODE |                                                                                                   |
|-----------------|----------------|----------------------|---------------------------------------------------------------------------------------------------|
|                 | H0002          | <b>PHIN</b>          | * Philips Electronic Components & Material Div., Elcoma Bldg. BA, Eindhoven, Netherlands          |
|                 | K0467          | <b>PLSB</b>          | * Plessey Semiconductors, Cheney Manor, Swindon, Wiltshire, England SN2 2QW                       |
| CRC             | 18714          | <b>RCA</b>           | RCA Corporation, Solid State Div., Route 202, Somerville, NJ 08876                                |
|                 | 12256          | <b>RTCF</b>          | * R.T.C. LaRadiotechnique-Compelec, 130 Av. Ledru-Rollin, 75540 Paris Cedex 11, France            |
| CRP             | 07933          | <b>RTN</b>           | Raytheon Company, 350 Ellis St., Mountain View, CA 94043                                          |
|                 | A3500          | <b>SGAI</b>          | SGS-ATES Componenti Elettronici S.p.A., Stradale Primosole, 50, Catania, Italy 95121              |
| CDKB            | 18324          | <b>SIC</b>           | * Signetics Corp., 811 E. Arques Ave., Sunnyvale, CA 94086                                        |
|                 | 92346          | <b>SIEG</b>          | Siemens Aktiengesellschaft, Semiconductor Div., Balanstrasse 73, D8000, Munich 8, West Germany    |
| CDCD            | 22229          | <b>SOD</b>           | Soltron Devices, Inc., 8808 Balboa Ave., San Diego, CA 92123                                      |
| CSF             | 56289          | <b>SPR</b>           | * Sprague Electronic Co., 87 Marshall St., North Adams, MA 01247                                  |
|                 | 11911          | <b>SSE</b>           | Solid State Electronics Corp., 18646 Parthenia, Northridge, CA 91324                              |
| CECE            | 31019          | <b>SSS</b>           | Solid State Scientific Inc., 3900 Welsh Rd., Willow Grove, PA 19090                               |
|                 | 51791          | <b>STK</b>           | Statek Corporation, 512 North Main, Orange, CA 92668                                              |
|                 |                | <b>STX</b>           | Supertex, Inc., 1225 Bordeaux Dr., Sunnyvale, CA 94086                                            |
|                 |                | <b>SYK</b>           | * Synertek, Inc., 3001 Stender Way M/S 52, Santa Clara, CA 95054                                  |
|                 |                | <b>THEF</b>          | Thomson-CSF/EFCIS, 45 Ave de L'Europe, Velizy Villacoublay, France 78140                          |
|                 |                |                      | Thomson-CSF/EFCIS, 6660 Variel Ave., Canoga Park, CA 91304                                        |
| CGO             | 01295          | <b>TII</b>           | Texas Instruments, Inc., Inquiry Answering Service, M/S 308, P.O. Box 225012, Dallas, TX 75265    |
|                 |                | <b>TOSJ</b>          | Toshiba Corp., c/o Microelectronics, Center 1 Komukai, Toshiba Cho Saiwaiiku, Kawasaki 210, Japan |
|                 |                | <b>TRW</b>           | TRW-LSI Products, P.O. Box 2472, La Jolla, CA 92038                                               |
|                 |                | <b>TSAJ</b>          | Tokyo Sanyo Electric Co., Ltd., Oizumimachi, Oragun, Gumma, Japan                                 |
|                 | 15818          | <b>TSC</b>           | Teledyne Semiconductor, 1300 Terra Bella Ave., Mountain View, CA 94043                            |
|                 |                | <b>USSR</b>          | V/O Electronzagrannostavka, 24/2.U1 Usievicha, Moscow, 125315 USSR                                |
|                 | D2540          | <b>VALG</b>          | Valvo GmbH, P.O. Box 993, D2000, Hamburg, 1, West Germany                                         |
|                 | 52840          | <b>WDC</b>           | Western Digital Corp., 2445 McCabe Way, Irvine, CA 92714                                          |
|                 |                | <b>WET</b>           | Weitek Corp., 3325 Scott Blvd., Santa Clara, CA 95050                                             |
|                 |                | <b>ZIL</b>           | Zilog Inc., 1315 Dell Ave., Campbell, CA 95008                                                    |



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