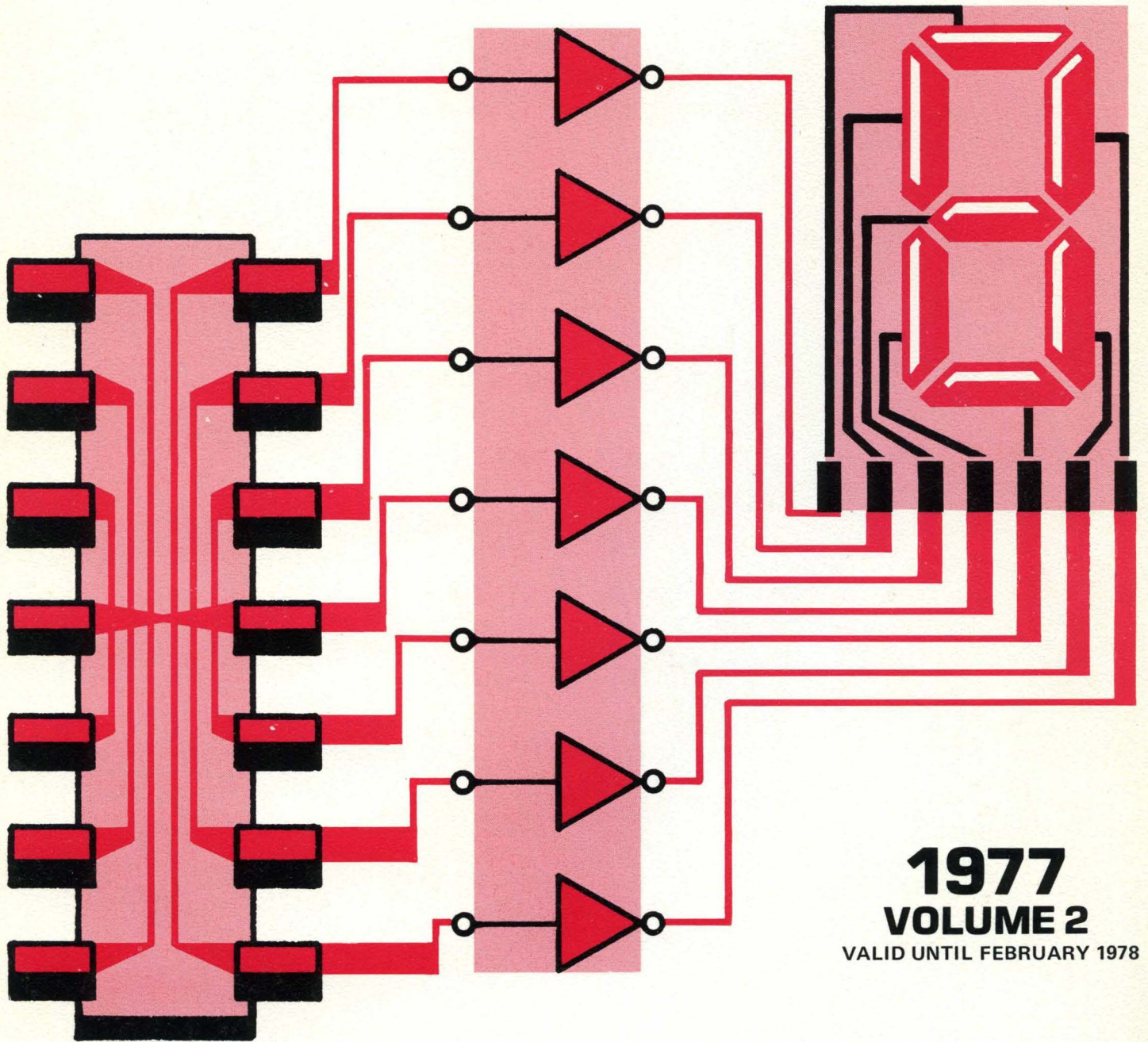




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INTERFACE

INTEGRATED CIRCUITS



1977
VOLUME 2
VALID UNTIL FEBRUARY 1978

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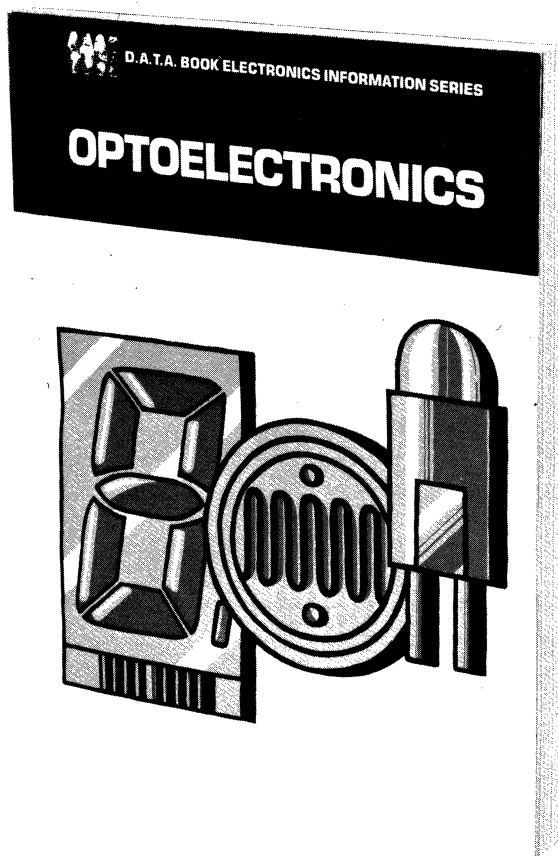
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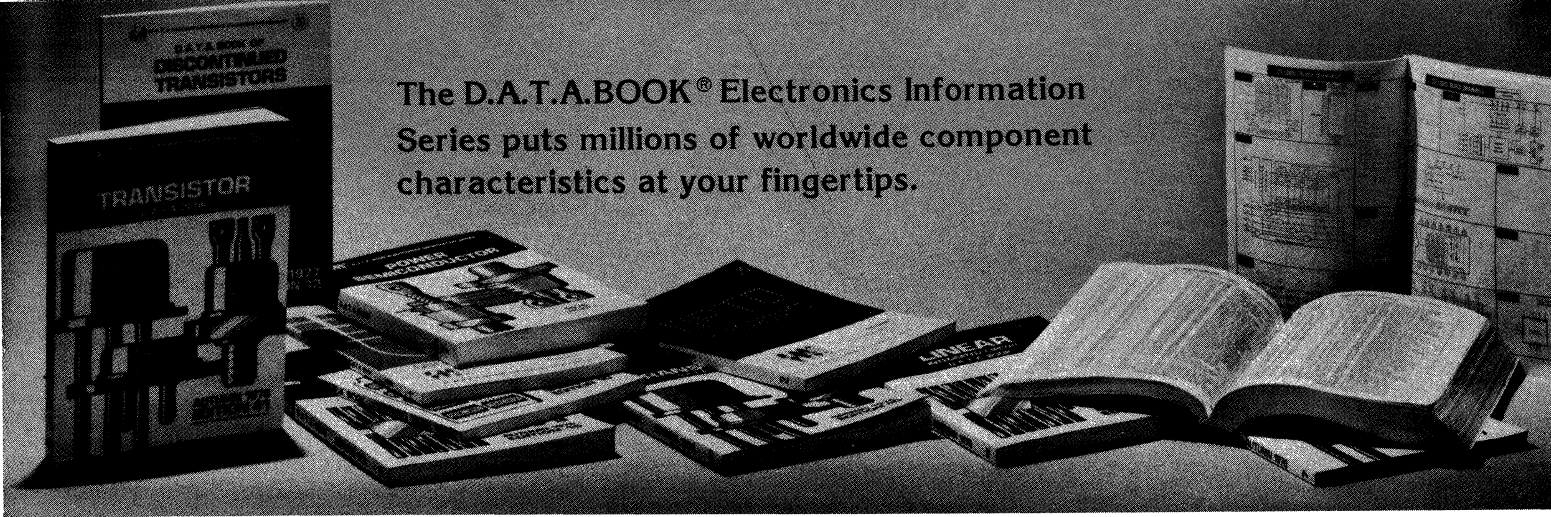
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INTERFACE INTEGRATED CIRCUITS

2nd Edition

1977 Volume 2

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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 Interface 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.

JEDEC Outlines

At the time this D.A.T.A.BOOK was prepared, there were no JEDEC type numbers; however, some of the devices have the JEDEC-designated MO— and TO— outlines which are included as applicable in the Outline Drawing Section.

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.

Manufacturers' Specifications

This book includes currently-manufactured devices 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 MAKE MAXIMUM USE OF THIS D.A.T.A.BOOK

To make maximum use of this D.A.T.A.BOOK, select the particular known-unknown situation below that defines your problem, and follow the instructions as indicated.

1	<p>KNOWN: Electrical and Mechanical Requirements UNKNOWN: Suitable Type Numbers</p> <ol style="list-style-type: none"> Turn to the Table of Contents (first page), and select the technical data section corresponding to the subject device type. Turn to any page in the selected section. Note the sequencing parameters (those characteristics for which the data is arranged in order) indicated at the top corner of the page. Using the sequencing parameters, locate the type numbers that are in general agreement with your requirements. (Because of the sequencing arrangement, these types will appear together, in groups and sub-groups.) From among these, select the one or ones most suitable. To identify the manufacturer of the selected type number(s), follow the instructions in Block 2 below.
2	<p>KNOWN: Type Number (SN5520J) UNKNOWN: Manufacturer(s), Address, Local Offices</p> <ol style="list-style-type: none"> Turn to Type No. Cross Index (Section 1) and locate the subject type number. (Refer to 'HOW TYPE NUMBERS ARE SEQUENCED' in front of the book as a guide for this.) Note the 3 (or 4) letter manufacturer's code, e.g., TII, indicated for each of the subject types. Use the listing of 'MANUFACTURERS & THEIR CODES' in back of the book to identify the codes. (Note: Local Offices for manufacturers shown in bold print on this listing are indicated in a special section in back of the book.)
3	<p>KNOWN: Type Number (SN5520J) UNKNOWN: Its Electrical Characteristics, And/Or Logic And Outline Drawings</p> <ol style="list-style-type: none"> Turn to Type No. Cross Index and locate the subject type number. Note the page and line number, e.g., 99-28, alongside the type number. Locate the type number as noted in the technical sections. (Note: Along with the electrical and performance characteristics listed for each type number are references to the logic and outline drawings, located in Section 27 and Section 28, respectively.)
4	<p>KNOWN: Type Number UNKNOWN: Equivalent Types For Replacement</p> <ol style="list-style-type: none"> Follow the instructions in Block 3 above. Survey the type numbers surrounding the subject number to determine the suitable alternatives.
5	<p>KNOWN: Military Requirements UNKNOWN: Suitable Type Number(s)</p> <ol style="list-style-type: none"> Scan the military type numbers in Section 26 (TYPES WITH MILITARY SPECIFICATIONS) to determine the military identifying prefix(es); e.g., JANM38510. Follow the instructions in Block 1, to determine the general type numbers that meet the military requirements. From among these, select the military types by means of the identifying prefix. To identify the manufacturers, follow the instructions in Block 6.
6	<p>KNOWN: Military Type Number UNKNOWN: Qualified Manufacturers And/Or Applicable Military Standard Or Specification</p> <ol style="list-style-type: none"> Turn to Section 26 (TYPES WITH U.S. MILITARY SPECIFICATIONS), and locate the subject type number. (Type numbers are arranged in alpha-numeric order, by individual specifications as indicated in the column headings.) Note the manufacturer's code(s) listed alongside the type number. Follow the instructions in Block 2 to identify the manufacturers.
7	<p>KNOWN: Type Number Not Included In Book UNKNOWN: What Happened To It?</p> <ol style="list-style-type: none"> Consult D.A.T.A.BOOK OF DISCONTINUED INTEGRATED CIRCUITS.

USE OF POWERS-OF-TEN MULTIPLIERS AND 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		
PREFIXES & SYMBOLS			Recommended by International Committee on Weights and Measures						Value of Data To Be Entered	Basic Unit In Column Heading	Actual Entry
Indicating Powers of Ten			Adopted by National Bureau of Standards								
Power	Prefix	Symbol	Power	Prefix	Symbol	Power	Prefix	Symbol			
10 ¹²	tera	T	10	deka	da	10 ⁻⁹	nano	n	3 milliamperes	A (amperes)	3.0m
10 ⁹	giga	G	10 ⁻¹	deci	d	10 ⁻¹²	pico	p	9 megaohms	Ω (ohms)	9.0M
10 ⁶	mega	M	10 ⁻²	centi	c	10 ⁻¹⁵	femto	f	0.5 volt	V (volts)	500m *
10 ³	kilo	k	10 ⁻³	milli	m	10 ⁻¹⁸	atto	a	10 amperes	A (amperes)	10
10 ²	hecto	h	10 ⁻⁶	micro	μ				* May also be written as 0.5, with no multiplier		

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.

NOTE: The symbols and codes used herein are explained on the cards in back of the book.

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.

HOW TYPE NUMBERS ARE SEQUENCED IN THE TYPE NO. CROSS INDEX

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

	EXAMPLES
RULES: 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
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
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
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 NUMBERS ARE ARRANGED IN THE TECHNICAL SECTIONS - 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 corner of each page, as shown in the sample below.

MAJOR CHARACTERISTICS										SEQUENCING PARAMETERS									
5. PERIPHERAL/POWER DRIVERS										IN ORDER OF: (1)CKTS/DEVICE (2)ABS. MAX Ion (3)ABS. MAX. COLLECTOR VOLT. &(4)TYPE NUMBER									
LINE No.	TYPE NUMBER	1 CKTS. PER DEV.	2 ABS. MAX. Ion (A)	3 MAX. VCE (V)	4 OUTPUT TRANSIS. ON VOLTAGE @ Ic (V)	5 MAX. OUTPUT POWER (W)	6 OVERALL GATE FUNCT. CODE	7 IN-PUT DELAY (s)	8 MAX. PROP. DELAY (s)	9 TEMP. (°C)	INPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		10 MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS	
											HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)		(-) (°C)	(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO

The different types within a section are first arranged in ascending numeric (or alphabetic) order of the first such parameter. 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	3 C	4 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

Accuracy (Sections 10,11)	The percent deviation of actual output full scale range from the theoretical value.
Acquisition Time - Max. (Section 23)	The time required to switch from hold to sample within the specified accuracy of the input signal.
Additional Functions Available (Sections 4,22)	The additional functional capability of the device over the basic function.
Analog Gate (JEDEC Publication 99)	A gate, the output signal of which is a linear function of one or more input signals.
Analog Gate Switch (Section 15)	An analog gate that has two stable input-output transfer states (on and off).
Analog Multiplexer (Section 16)	An analog gate with multiple input channels, any one of which can be selected in order to switch its information to the output.
Analog-to-Digital (A/D) Converter (JEDEC Publication 99) (Section 10)	A device intended to convert a signal that is a function of a continuous variable to a digital representation.
Aperture Time - Max. (Section 23)	The time required for the device to switch from the sample to the hold state.
Bandwidth - Small Signal (Section 23)	The frequency at which the input to output voltage transfer ratio is down 3dB from its low frequency value.
Buffer (JEDEC Publication 99)	A circuit employed to minimize the effects of a following circuit on the preceding circuit. (Ref: 1972 IEEE Standard 100, page 18).
Bus Receiver (JEDEC Publication 99)	A line receiver intended to be driven from a bus.
Clock Driver (JEDEC Publication 99) (Section 4)	A driver intended for use with clock inputs.

GENERAL TERMS AND DEFINITIONS (Cont'd)

Common Mode Input Firing Voltage (Section 22)	The common mode input peak-to-peak voltage that will cause the output state to switch.
Control Logic Voltage Levels (Section 15)	The minimum Hi and maximum Low voltage levels necessary to turn the device on or off.
Control Logic Voltage Levels (Section 16)	The minimum Hi and maximum Low voltage levels necessary to select an input channel.
Conversion Time - Max. (Section 10)	The maximum time required to transfer the analog input signal to a valid digital output code.
Converts "From" - "To" (Section 12)	The device input (From) to output (To) logic family translation of voltage levels.
Decode Lines "From" - "To" (Section 18)	The number of decoding input (From) and output (To) lines of the device.
Differential Line Receiver (JEDEC Publication 99) (Section 20)	A line receiver that has a differential input.
Digital Multiplexer/Selector (Section 17)	A digital gating device with multiple outputs, any one of which can be selected in order to switch information from the single input of the device.
Digital-to-Analog (D/A) Converter (JEDEC Publication 99) (Section 11)	A device intended to convert a digital word to an analog representation.
Display Driver (Section 6)	A driver intended to directly drive a type of display.
Drain/Source On Resistance - Max. (Sections 15,16)	The dc resistance of the field-effect transistor analog switch at a specified drain voltage and source current.

GENERAL TERMS AND DEFINITIONS (Cont'd)

Driver (JEDEC Publication 99)	An amplifier or gate with increased ability to drive a load.
Driver - Minimum Sink Current (Section 21)	The minimum low level output current flowing into the device at the driver output and at a specified output voltage.
Function Code (Section 6)	The basic components of the device (driver, decoder, latch, counter) described in code form.
Gain/Temperature Drift - Max. (Section 11)	The variation of the gain or output level of the device with temperature.
Gate Function Code (Section 5)	The overall basic logic function of the device including the output transistor.
Hysteresis Voltage (Section 24)	The difference between the positive-going and negative-going threshold voltage levels.
Input Arithmetic Code Options (Section 11)	The basic digital input codes converted to output analog signals by the device.
Input Compatibility (Section 5)	The basic logic family that can drive the device input.
Input Current - Low Logic - Max. (Section 4)	The maximum input low level driving current of the device.
Input Current - Max. (Section 24)	The maximum input current required to drive the device.
Input Current - Receiver - Max. (Section 21)	The maximum input current required to drive the device.
Input Drive Current - Max. (Section 7)	The maximum input current required to drive the device.

GENERAL TERMS AND DEFINITIONS (Cont'd)

Input Impedance (Section 23)	The low frequency impedance measured at the input of the device.
Input Logic Voltage Levels (Sections 2,3,4,5,6,7, and 11,12,17,18,25)	The maximum input voltage at which the input is in the Low or "0" state, and the minimum input voltage at which the input is in the High or "1" state.
Input Mode (Section 10)	The basic method of input sensitivity (voltage or current) and operation (bipolar or unipolar) of the device.
Input Mode (Section 20)	The basic input connection (differential or single-ended) of the device to the transmission line.
Input/Output Mode (Section 21)	The basic input (receiver) and output (driver) connection (differential or single-ended) of the device.
Input Range - Max. Peak-to-Peak (Section 10)	The maximum linear operating peak-to-peak input voltage or current of the device.
Input Resistance - Max. (Section 20)	The maximum resistance measured at the input of the device.
Input Threshold (JEDEC Publication 99)	The input amplitude that causes the output of an interface device to be at a level at which the load being driven, or the output of the interface device itself, is assumed to change state.
Input Threshold Range (JEDEC Publication 99)	The spread of the input threshold level that can be attained by varying the threshold reference.
Input Threshold Voltage	Section 20,21: The high and low input (receiver) threshold levels at which the device operates. Section 22: Input Minimum and Maximum Threshold: The range of input threshold voltage levels. Section 24: Positive-Going: The low to high input threshold level of the device. Negative-Going: The high to low input threshold level of the device.
Input Voltage - Peak-to-Peak - Min. (Section 23)	The minimum linear full range peak-to-peak operating input voltage of the device.
Interface Circuit (JEDEC Publication 99)	A circuit designed for use between two systems or circuits that would otherwise be incompatible.

GENERAL TERMS AND DEFINITIONS (Cont'd)

Is (Sections 15,16)	The dc signal (source) current at which drain/source resistance is measured.
Line Driver (Transmitter) (JEDEC Publication 99) (Section 3)	A circuit designed for driving a data transmission line.
Line Receiver (JEDEC Publication 99) (Section 20)	A circuit designed for receiving data from a transmission line.
Line Transceiver (Transceiver) (JEDEC Publication 99) (Section 20)	A driver and receiver pair; usually with the driver output also connected to the input of the receiver of the same pair.
Linearity Error - Max. FSR (Sections 10,11)	The percentage deviation of full scale range of the output signal from a straight line over the entire operating signal range of the device.
Logic Buffer/Driver (Section 2)	A buffer and/or driver with a defined basic logic function.
Logic (Function) Code (Sections 2,5,12,24)	The basic digital (logic) operation performed by the device.
Logic Drawings (All Sections)	Device logic drawings separated and coded according to functional classification, i.e., DISPLAY DRIVER, SAMPLE/HOLD, etc.
Logic Level Converter; Level Translator (JEDEC Publication 99) (Section 12)	A circuit used to convert logic voltage levels of one family to corresponding logic voltage levels of another family, such as from ECL to TTL.
Memory Driver (Section 4)	A driver intended for use with memory inputs.
Mode Control Voltages (Section 23)	The minimum High and maximum Low control voltages necessary to determine the sample or hold state of the device.
No. Address Lines (Section 17)	The number of input code lines necessary to select an input channel.
No. Circuits Per Device (Sections 2,3,4,5,12, 15,16,17,18,20,21,22,24)	The number of basic independent identical circuits contained in the device.

GENERAL TERMS AND DEFINITIONS (Cont'd)

No. Input Channels Per Circuit (Sections 16,17,22)	The number of signal input lines per circuit in the device.
No. Lines (Output) (Section 6)	The number of output lines of the device capable of directly or indirectly tying to a display.
No. Logic Inputs Per Circuit (Sections 2,12)	The number of basic functional inputs per circuit in the device.
No. Output Channels Per Circuit (Section 18)	The number of independent signal outputs per circuit in the device.
No. Switch Channels (Section 7)	The number of outputs of the device available to independently drive analog switches.
No. Switches Per Circuit (Section 15)	The number of basic switches contained in each individual circuit.
Noise Immunity (Sections 2,24)	The relative difference between the low input and low output logic levels or the high input and high output logic levels of the device.
Operating Power Dissipation - Max. (All Sections)	The "worst-case" power dissipation of the device under operating conditions.
Operating Temperature (All Sections)	The temperature range over which the manufacturer indicates that the device will operate.
Outline Drawings (All Sections)	Device outline drawings separated and coded according to package configuration.
Output Arithmetic Code Options (Section 10)	The basic digital output codes to which the input analog signal is converted by the device.
Output Connection (Sections 2,6)	The basic output coupling of the device.
Output Connection (Transistor) (Section 5)	The basic method of coupling the output driving transistor of the device to the input circuit or to the output load.

GENERAL TERMS AND DEFINITIONS (Cont'd)

Output Current - Min. (Section 2)	The minimum output driving current of the device at a specified output voltage.
Output Current - Min. Sink (Sections 3,4,6,7,12, 17,18,20,21)	The minimum low level output current flowing into the device at a specified output voltage.
Output Current - Abs. Max. Transistor (Section 5)	The absolute maximum collector current that the output transistor can conduct.
Output Current - Min. Drive (Section 10)	The minimum output current driving capability of the device.
Output Current - Min. Peak-to-Peak (Section 23)	The minimum output linear operating peak-to-peak current range of the device.
Output Logic Levels (JEDEC Publication 99) (Sections 10,20,21, 22,24)	High-Level Output Voltage (V_{OH}): The voltage level at an output terminal for a specified output current with the specified conditions applied to establish a high level at the output. Low-Level Output Voltage (V_{OL}): The voltage level at the output terminal for a specified output current with the specified conditions applied to establish a low level at the output.
Output Mode (Section 3)	The basic device output connection (differential or single-ended) to the transmission line.
Output Mode (Section 11)	The basic method of output drive (voltage or current) and operation (bipolar or unipolar) of the device.
Output Range - Max. Peak-to-Peak (Section 11)	The linear operating peak-to-peak output voltage or current of the device.
Output Resistance - Max. (Section 3)	The resistance measured at the output of the device.
Output Slew Rate (JEDEC Publication 99) (Section 23)	The time rate of change of the closed-loop amplifier output voltage for a step-signal input. Normally, slew rate is measured between specified output levels, using the largest input voltage step for which amplifier performance remains linear with feedback adjusted for unity gain.
Output Voltage - Max. (Section 2)	The maximum recommended output operating voltage of the device.

GENERAL TERMS AND DEFINITIONS (Cont'd)

Output Voltage - Typical High and Low (Section 3)	The typical High and Low output logic levels of the device.
Output Voltage - Sink High (Section 4)	The output voltage at the sink output of the device.
Output Voltage - Absolute Max. Transistor $V_{(BR)CE}$ (Section 5)	The absolute maximum breakdown voltage that can be applied from the collector to emitter of the output transistor with the device in the off state.
Output Voltage - Absolute Max. Voltage (Sections 6,7)	The absolute maximum output voltage that can be applied to the output of the device in the off state.
Output Voltage - Min. Peak-to-Peak (Section 23)	The minimum linear full range peak-to-peak operating output voltage of the device.
Party-Line Driver; Bus Driver (JEDEC Publication 99)	A line driver used to fan out to multiple receivers via a transmission line.
Peripheral Driver (JEDEC Publication 99) (Section 5)	A circuit designed to interface a digital device to an external non-digital device such as a lamp, light-emitting diode, or data bus.
Power Driver (Section 5)	A device with a high output driving capability.
Propagation Delay (tpd) - Max. (Sections 2,3,4,5, 6,12,16,17,18,20, 21,22,24)	The maximum of the propagation delay times High-to-Low level output and Low-to-High level output.
Rated Power Supply Span (All Sections)	The range of positive and negative supply voltages at which the characteristics are specified by the manufacturer.
Readout Code (Section 6)	The basic types of readouts that the device is capable of interfacing (including LEDs, Liquid Crystals, Gas Discharges and Incandescents).

GENERAL TERMS AND DEFINITIONS (Cont'd)

Resolution - Bits (Sections 10,11)	The number (n) of digital bits of the device, translatable to the number of states that the output may be divided by 2^n .
Sample Acquisition Time - Max. (Section 23)	SEE Acquisition Time.
Sample Aperture Time - Max. (Section 23)	SEE Aperture Time.
Sample/Hold (Section 23)	A device, the output of which can either follow an input analog signal or hold a steady output voltage corresponding to an input signal sensed during a given interval of time.
Sample Small Signal Bandwidth (Section 23)	SEE Bandwidth - Small Signal.
Sense Amplifier, Memory (JEDEC Publication 99) (Section 22)	A circuit used to sense the output level of the storage elements of a memory and to convert it to a form compatible with the logic output elements.
Settling Time - Max. (Section 11)	The time required for the analog output to change within a specified accuracy of full scale for a specified change in input digital levels.
Sink Current	SEE Output Current.
Slew Rate - Output	SEE Output Slew Rate.
Switch Current - Max. Peak-to-Peak (Section 16)	The maximum operating peak-to-peak analog signal current rating of the switches.
Switch Driver (Section 7)	A driver intended to drive the control inputs of analog gate switches.
Switch Form (Section 15)	The basic operation of the switch including Form "A" (normally on), Form "B" (normally off) and Form "C" (double throw).
Switch Voltage - Max. Peak-to-Peak (Section 16)	The maximum operating peak-to-peak analog signal voltage rating of the device.

GENERAL TERMS AND DEFINITIONS (Cont'd)

Technology (All Sections Except 10,11,23)	The main bipolar and MOS semiconductor technologies for interface devices.
Threshold Voltage - Input (Sections 20,21,22,24)	SEE Input Threshold Voltage.
Transceiver (JEDEC Publication 99) (Section 21)	SEE Line Transceiver.
Turn-Off Time (tOFF) - Max. (Section 7)	The maximum total time required to turn the device "off," measured from a specified level on the input pulse to a specified level on the output pulse.
Turn-On Time (tON) - Max. (Sections 7,15)	The maximum total time required to turn the device "on," measured from a specified level on the input pulse to a specified level on the output pulse.
Type Code (Section 4)	The basic type of output driving capability of the device; memory or clock.
Type Code (Section 25)	The basic functional classification of the device.
Type of Converter (Sections 10,11)	The basic internal method of operation (structure) of the device.
Type of Memory (Section 22)	The type of memory sensed by the device.
Universal Asynchronous Receiver-Transmitter (UART) (JEDEC Publication 99)	A circuit used in asynchronous data communication applications to provide all the necessary logic to recover data in a serial-in parallel-out fashion and to transmit data in a parallel-in serial-out fashion. NOTE: It is usually full-duplex, ie., can transmit and receive simultaneously with the option to handle various data word lengths.

NOTES

We feel you may have some useful comments which deserve consideration for future editions.

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
8T04B	PHIN	50-53	8T111F	PHIN	95-27	54LS156W	RTN	91-108	74LS368DC	FSC	23-80	362CJ	TSC	70-16
	PHIN			PHIN		54LS157CH	RTN	88-26	74LS368FC	FSC	23-81	362CL	TSC	70-17
8T04F	PHIN	50-54	8T380A	MULB	96-20	54LS157DM	FSC	88-27	74LS368PC	FSC	23-82	362ML	TSC	70-18
	PHIN			PHIN		54LS157FM	FSC	88-28	75S107A	MULB	93-96	363AL	TSC	69-71
8T04W	MULB	50-55	25LS138JC	RTN	91-3	54LS157J	RTN	88-29		PHIN		363BL	TSC	69-72
	PHIN		25LS138JM	RTN	91-4	54LS157W	RTN	88-30	75S107F	MULB	93-97	363CJ	TSC	69-73
8T05B	MULB	50-56	25LS138WC	RTN	91-5	54LS158CH	RTN	88-31		PHIN		363CL	TSC	69-74
	PHIN		25LS138WM	RTN	91-6	54LS158DM	FSC	88-32	75S108A	MULB	93-98	363ML	TSC	69-75
8T05F	MULB	50-57	25LS139JC	RTN	91-90	54LS158FM	FSC	88-33		PHIN		367AJ	TSC	104-36
	PHIN		25LS139JM	RTN	91-91	54LS158J	RTN	88-34	75S108F	MULB	94-1	367AL	TSC	104-37
8T05W	MULB	50-58	25LS139WC	RTN	91-92	54LS158W	RTN	88-35		PHIN		367BL	TSC	104-38
	PHIN		25LS139WM	RTN	91-93	54LS251DM	FSC	84-28	75S207A	MULB	101-25	367CJ	TSC	104-39
8T06B	MULB	50-59	25LS151JC	RTN	84-13	54LS251FM	FSC	84-29		PHIN		367CL	TSC	104-40
	PHIN		25LS151JM	RTN	84-14	54LS251J	RTN	84-30	75S207F	MULB	101-26	367ML	TSC	104-41
8T06F	MULB	50-60	25LS151WC	RTN	84-15	54LS251W	RTN	84-31		PHIN		368AJ	TSC	104-42
	PHIN		25LS151WM	RTN	84-16	54LS253CH	RTN	86-58	75S208A	MULB	101-27	368AL	TSC	104-43
8T06W	MULB	50-61	25LS153JC	RTN	86-45	54LS253DM	FSC	86-59		PHIN		368BL	TSC	104-44
	PHIN		25LS153JM	RTN	86-46	54LS253FM	FSC	86-60	75S208F	MULB	101-28	368CJ	TSC	104-45
8T09A	MULB	39-27	25LS153WC	RTN	86-47	54LS253J	RTN	86-61		PHIN		368CL	TSC	104-46
	PHIN		25LS153WM	RTN	86-48	54LS253W	RTN	86-62	103	FMI	58-55	368ML	TSC	104-47
8T09F	MULB	39-28	25LS157JC	RTN	88-10	54LS255CH	RTN	91-109				380AJ	TSC	49-54
	PHIN		25LS157JM	RTN	88-11	54LS255J	RTN	91-110	104-BCD-N	FMI	56-15	380AL	TSC	49-55
8T13B	MULB	38-94	25LS157WC	RTN	88-12	54LS255W	RTN	92-1	104-BCD-P	FMI	56-16	380BL	TSC	49-56
	PHIN		25LS157WM	RTN	88-13	54LS257CH	RTN	88-36				380CJ	TSC	49-57
8T13F	MULB	38-95	25LS158JC	RTN	88-14	54LS257DM	FSC	88-37	104-BIN-N	FMI	56-18	380CL	TSC	49-58
	PHIN		25LS158JM	RTN	88-15	54LS257FM	FSC	88-38	104-BIN-P	FMI	56-19	380ML	TSC	49-59
8T14B	MULB	95-90	25LS158WC	RTN	88-16	54LS257J	RTN	88-39				381AJ	TSC	49-60
	PHIN		25LS158WM	RTN	88-17	54LS257W	RTN	88-40	105-BCD-N	FMI	56-11	381AL	TSC	49-61
8T14F	MULB	95-91	25LS251JC	RTN	84-17	54LS258CH	RTN	88-41	105-BCD-P	FMI	56-12	381BL	TSC	49-62
	PHIN		25LS251JM	RTN	84-18	54LS258DM	FSC	88-42				381CJ	TSC	49-63
8T15A	MULB	38-105	25LS251WC	RTN	84-19	54LS258FM	FSC	88-43	105-BIN-N	FMI	56-13	381CL	TSC	49-64
	PHIN		25LS251WM	RTN	84-20	54LS258J	RTN	88-44	105-BIN-P	FMI	56-14	381ML	TSC	49-65
8T15F	MULB	38-106	25LS253JC	RTN	86-49	54LS258W	RTN	88-45				382AJ	TSC	51-47
	PHIN		25LS253JM	RTN	86-50	54LS365DM	FSC	35-1	106-1	FMI	56-17	382AL	TSC	51-48
8T16A	MULB	95-58	25LS253WC	RTN	86-51	54LS365FM	FSC	35-2				382BL	TSC	51-49
	PHIN		25LS253WM	RTN	86-52	54LS366DC	FSC	23-73	107-BCD	FMI	59-3	382CJ	TSC	51-50
8T16F	MULB	95-59	25LS257JC	RTN	88-18	54LS366DM	FSC	23-74				382CL	TSC	51-51
	PHIN		25LS257JM	RTN	88-19	54LS366FM	FSC	23-75	107-BIN	FMI	59-4	382ML	TSC	51-52
8T18A	MULB	69-14	25LS257WC	RTN	88-20	54LS366W	FSC	23-76				383AJ	TSC	51-61
	PHIN		25LS257WM	RTN	88-21	54LS366PC	FSC	23-77	109	FMI	59-31	383AL	TSC	51-62
8T18F	MULB	69-15	25LS258JC	RTN	88-22	54LS367DM	FSC	35-3				383BL	TSC	51-63
	PHIN		25LS258JM	RTN	88-23	54LS367FM	FSC	35-4	110	FMI	59-32	383CJ	TSC	51-64
8T18W	MULB	69-16	25LS258WC	RTN	88-24	54LS368DM	FSC	23-78				383CL	TSC	51-65
	PHIN		25LS258WM	RTN	88-25	54LS368FM	FSC	23-79	158	FMI	54-28	383ML	TSC	51-66
8T23B	MULB	38-96	54LS04CH	RTN	22-49	74LS04DC	FSC	22-56	158A	FMI	54-29	390AL	TSC	21-1
	PHIN		54LS04DM	FSC	22-50	74LS04FC	FSC	22-57				390CL	TSC	21-2
8T23F	MULB	38-97	54LS04FM	FSC	22-51	74LS04PC	FSC	22-58	160-10	FMI	55-27	391AL	TSC	21-3
	PHIN		54LS04J	RTN	22-52	74LS05DC	FSC	22-59	160-12	FMI	57-37	391CL	TSC	21-4
8T24B	MULB	95-76	54LS04W	RTN	22-53	74LS05FC	FSC	22-60	161-10	FMI	55-12	392AL	TSC	31-20
	PHIN		54LS05CH	RTN	23-41	74LS05PC	FSC	22-61	161-12	FMI	56-85	392CL	TSC	31-21
8T24F	MULB	95-77	54LS05DM	FSC	22-54	74LS14DC	FSC	103-33	161-12A	ITI	56-9	393AL	TSC	36-82
	PHIN		54LS05FM	FSC	22-55	74LS14FC	FSC	103-34	168-10	ITI	55-13	393CL	TSC	36-83
8T25V	MULB	101-24	54LS05J	RTN	23-42	74LS14PC	FSC	103-35	168-12QZ	FMI	57-6	394AL	TSC	36-83
	PHIN		54LS05W	RTN	23-43	74LS37DC	FSC	31-41				394CL	TSC	36-34
8T26AB	MULB	97-60	54LS14DM	FSC	103-31	74LS37FC	FSC	31-42	170-8	FMI	54-23	395AL	TSC	31-22
	PHIN		54LS14FM	FSC	103-32	74LS37PC	FSC	31-43				395CL	TSC	31-23
8T26AF	MULB	97-61	54LS28CH	RTN	36-39	74LS38DC	FSC	31-44	170-10	FMI	55-21	411-8-BIN-I	FMI	60-74
	PHIN		54LS28J	RTN	36-40	74LS38FC	FSC	31-45				411-8-BIN-V	FMI	61-12
8T28B	MULB	97-62	54LS28W	RTN	36-41	74LS38PC	FSC	31-46	170-12	FMI	56-75	411-10-BIN-I	FMI	61-99
	PHIN		54LS33CH	RTN	36-48	74LS40DC	FSC	29-57						
8T28F	MULB	97-63	54LS33J	RTN	36-49	74LS40FC	FSC	29-58	171-8	FMI	54-24	411-10-BIN-V	FMI	62-51
	PHIN		54LS33W	RTN	36-50	74LS40PC	FSC	29-59						
8T30A	MULB	97-25	54LS37CH	RTN	31-34	74LS125DC	FSC	33-82	171-10	FMI	55-22	411-12-BCD-I	FMI	66-33
	PHIN		54LS37DM	FSC	31-35	74LS125FC	FSC	33-83						
8T30F	MULB	97-26	54LS37FM	FSC	31-36	74LS125PC	FSC	33-84	171-12	FMI	56-76	411-12-BCD-V	FMI	66-66
	PHIN		54LS37J	RTN	31-37	74LS126DC	FSC	33-85						
8T34A	MULB	97-75	54LS37W	RTN	31-38	74LS126FC	FSC	33-86	190	FMI	102-75	411-12-BIN-I	FMI	64-15
	PHIN		54LS38CH	RTN	32-17	74LS126PC	FSC	33-87						
8T37A	MULB	96-30	54LS38DM	FSC	31-39	74LS132DC	FSC	103-28	191	ITI	102-58	411-12-BIN-V	FMI	65-67
	PHIN		54LS38FM	FSC	31-40	74LS132FC	FSC	103-29	192	FMI	83-12			
8T38A	MULB	97-76	54LS38J	RTN	32-18	74LS132PC	FSC	103-30				412	FMI	65-95
	PHIN		54LS38W	RTN	32-19	74LS138DC	FSC	91-12	332AJ	TSC	29-35	412-BIN	ITI	65-96
8T80A	MULB	68-92	54LS40CH	RTN	29-52	74LS138FC	FSC	91-13	332AL	TSC	29-36	414-BIN	FMI	67-42
	PHIN		54LS40DM	FSC	29-53	74LS138PC	FSC	91-14	332BL	TSC	29-31			
8T80F	MULB	68-93	54LS40FM	FSC	29-54	74LS139DC	FSC	92-2	332CJ	TSC	29-33	416-BCD	FMI	67-79
	PHIN		54LS40J	RTN	29-55	74LS139FC	FSC	92-3	332CL	TSC	29-34			
8T80W	MULB	68-94	54LS40W	RTN	29-56	74LS139PC	FSC	92-4	332ML	TSC	29-32	416-BIN	FMI	67-62
	PHIN		54LS125DM	FSC	33-78	74LS151DC	FSC	84-32	333AL	TSC	29-30			
8T90A	MULB	68-110	54LS125FM	FSC	33-79	74LS151FC	FSC	84-33	333BL	TSC	29-37	418-BCD	FMI	67-85
	PHIN		54LS126DM	FSC	33-80	74LS151PC	FSC	84-34	333CJ	TSC	29-28			
8T90F	MULB	69-1	54LS126FM	FSC	33-81	74LS152FC	FSC	84-35	333CL	TSC	29-29	750	HBC	102-20
	PHIN		54LS132DM	FSC	103-26	74LS153DC	FSC	86-63	333ML	TSC	29-28	755	HBC	102-21
8T90W	MULB	69-2	54LS132FM	FSC	103-27	74LS153FC	FSC	86-64	334AJ	TSC	29-49	770-316	ZEL	105-89
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845-B10	†BEC	61-62	4854	†TPN	102-72	9616FM	†FSC	39-21	55453BT	†MULB	42-71	75454ATC	†FSC	42-105
845-U5	†BEC	61-59	4855	†TPN	102-29	9616PC	†FSC	39-22	PHIN	†SIC		75454BHC	†FSC	42-106
845-U10	†BEC	61-61	4856	†TPN	102-48	9617DC	†FSC	95-82	55454AHM	†FSC	42-72	75454BRC	†FSC	42-107
848-B10	†BEC	63-68	5021	†OEI	102-32	9617PC	†FSC	95-83	55454ARM	†FSC	42-73	75454BTC	†FSC	42-108
848-B10	†BEC	63-69	5025	†OEI	102-25	9620DC	†FSC	93-35	55454BHM	†FSC	42-74	75454BVB	†MULB	42-109
848-U10	†BEC	63-70	5030A	†OEI	102-12	9620DM	†FSC	93-36	55454BRM	†FSC	42-75	PHIN	†SIC	
872-D1	†BEC	66-68	5031	†OEI	102-19	9620FM	†FSC	93-37	55454BT	†MULB	42-76	75460DC	†FSC	44-5
872-D2	†BEC	66-68	5032	†OEI	102-9	9620PC	†FSC	93-38	PHIN	†SIC		75460PC	†FSC	44-6
873-15B1	†BEC	56-86	5518	†DTC	21-7	9621DC	†FSC	38-65	55460DM	†FSC	43-105	75461HC	†FSC	43-61
873-15B5	†BEC	56-87	5518A	†DTC	21-8	9621DM	†FSC	38-63	55460FM	†FSC	43-106	75461RC	†FSC	43-62
873-15U1	†BEC	56-88	5524DM	†FSC	100-19	9621FM	†FSC	38-64	55461HM	†FSC	43-53	75461TC	†FSC	43-63
873-78B1	†BEC	57-14	5524FM	†FSC	100-20	9621PC	†FSC	38-66	55461RM	†FSC	43-54	75462HC	†FSC	43-64
873-78B5	†BEC	57-15	5525DM	†FSC	99-63	9622DC	†FSC	93-86	55462HM	†FSC	43-55	75462RC	†FSC	43-65
873-78U1	†BEC	57-16	5525FM	†FSC	99-64	9622DM	†FSC	93-87	55462RM	†FSC	43-56	75462TC	†FSC	43-66
873-88B-D1	†BEC	57-7	5528DM	†FSC	100-21	9622FM	†FSC	93-88	55463HM	†FSC	43-57	75463HC	†FSC	43-67
873-88B-D2	†BEC	57-8	5528FM	†FSC	100-22	9622PC	†FSC	93-89	55463RM	†FSC	43-58	75463RC	†FSC	43-68
873-88B5-D1	†BEC	54-100	5529DM	†FSC	99-65	9624DC	†FSC	69-87	55464HM	†FSC	43-59	75463TC	†FSC	43-69
873-88B5-D2	†BEC	54-101	5529FM	†FSC	99-66	9624DM	†FSC	69-88	55464RM	†FSC	43-60	75464HC	†FSC	43-70
873-88U1-D1	†BEC	57-9	5534DM	†FSC	100-23	9624FM	†FSC	69-89	55470DM	†FSC	44-30	75464RC	†FSC	43-71
873-88U1-D2	†BEC	54-102	5534FM	†FSC	100-24	9624PC	†FSC	69-90	55470FM	†FSC	44-31	75464TC	†FSC	43-72
876-85-D1	†BEC	55-109	5535DM	†FSC	99-67	9625DC	†FSC	69-92	55471HM	†FSC	43-107	75470DC	†FSC	44-32
876-85-D2	†BEC	55-110	5535FM	†FSC	99-68	9625DM	†FSC	69-93	55471RM	†FSC	43-108	75470PC	†FSC	44-33
876-U10-D1	†BEC	56-11	5538DM	†FSC	100-25	9625PC	†FSC	69-94	55472HM	†FSC	43-109	75471HC	†FSC	44-7
877-151	†BEC	64-52	5538FM	†FSC	100-26	9625PC	†FSC	69-95	55472RM	†FSC	43-110	75471RC	†FSC	44-8
877-15V	†BEC	64-93	5539DM	†FSC	99-69	9627DC	†FSC	93-69	55473HM	†FSC	44-1	75471TC	†FSC	44-9
877-69C-D1	†BEC	67-21	5539FM	†FSC	99-70	9627DM	†FSC	93-70	55473RM	†FSC	44-2	75472HC	†FSC	44-10
877-69C-D2	†BEC	67-22	5550	†DTC	38-40	9627FM	†FSC	93-71	55474HM	†FSC	44-3	75472RC	†FSC	44-11
877-69M-D1	†BEC	67-25	5551	†DTC	95-45	9664ADC	†FSC	93-72	55474RM	†FSC	44-4	75472TC	†FSC	44-12
877-69M-D2	†BEC	67-36	5551A	†DTC	95-46	9664APC	†FSC	47-54	75107ADC	†FSC	94-10	75473HC	†FSC	44-13
877-801	†BEC	64-42	5551B	†DTC	95-47	9664APC	†FSC	47-55	75107APC	†FSC	94-11	75473RC	†FSC	44-14
877-80V	†BEC	64-44	5551C	†DTC	95-48	9664DC	†FSC	47-56	75107BDC	†FSC	94-12	75473TC	†FSC	44-15
877-851-D1	†BEC	64-43	5556	†DTC	97-99	9664PC	†FSC	47-57	75107BPC	†FSC	94-13	75474HC	†FSC	44-16
877-851-D2	†BEC	66-10	5567	†DTC	90-69	10124B	†PHIN	69-76	75108ADC	†FSC	94-14	75474RC	†FSC	44-17
877-85V-D1	†BEC	64-93	5800	†DTC	48-67	10124F	†PHIN	69-77	75108APC	†FSC	94-15	75474TC	†FSC	44-18
877-85V-D2	†BEC	66-14	5893	†OEI	102-18		†PHIN	69-77	75108BDC	†FSC	94-16	75491ADC	†FSC	47-62
1404	†DMC	102-16	5900	†DIS	48-88		†SIC	69-39	75108BPC	†FSC	94-17	75491APC	†FSC	47-63
1405	†DMC	102-47	5900L	†DIS	48-89	10125B	†PHIN	69-39	75109DC	†FSC	38-4	75491DC	†FSC	47-64
2010	†DMC	60-81	5902	†OEI	102-16		†SIC	69-40	75109PC	†FSC	38-5	75491PC	†FSC	47-65
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2400	†DMC	61-73	5918L	†DIS	51-24		†SIC	91-35	75121PC	†FSC	37-37	75492PC	†FSC	47-61
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2471	†DMC	67-38	5920-1	†DIS	48-92		†SIC	92-93	75123DC	†FSC	95-67	A855-13	†ITI	58-71
2502C/D	†INL	106-3	5970	†DIS	49-52	10171F	†PHIN	92-93	75123DC	†FSC	37-70	A855-14	†ITI	58-86
2502CJE	†INL	106-4	5990	†DIS	49-53		†SIC	92-94	75123PC	†FSC	37-71	A856-16	†ITI	59-28
2502CPE	†INL	106-5	6605CJ	†TSC	97-77	10172F	†PHIN	92-94	75124DC	†FSC	95-68	A857-4	†ITI	53-12
2502M/D	†INL	106-6	6605CL	†TSC	97-78		†SIC	69-17	75124PC	†FSC	95-69	A857-8	†ITI	53-54
2502MJE	†INL	106-7	7520B	†MULB	100-49	10190F	†PHIN	69-17	75154DC	†FSC	96-14	A857-H4B1A	†ITI	53-13
2503C/D	†INL	106-8		†SIC			†PHIN	69-33	75154PC	†FSC	96-15	A857-H4B2A	†ITI	53-14
2503CJE	†INL	106-9	7521B	†MULB	100-50	10191F	†PHIN	69-33	75207DC	†FSC	101-12	A857-H4B3B	†ITI	53-15
2503CPE	†INL	106-10		†SIC			†PHIN	94-2	75207PC	†FSC	101-13	A857-H4B3C	†ITI	53-16
2503M/D	†INL	106-11	7522B	†MULB	100-51	55107ADM	†FSC	94-2	75208DC	†FSC	101-14	A857-H4B4A	†ITI	53-17
2503MJE	†INL	106-12		†SIC		55107AFM	†FSC	94-3	75208PC	†FSC	101-15	A857-H4B4C	†ITI	53-18
2504C/D	†INL	106-13	7523B	†MULB	100-52	55107BFM	†FSC	94-4	75224DC	†FSC	100-63	A857-H4B5A	†ITI	53-19
2504CJE	†INL	106-14		†SIC		55107BPC	†FSC	94-5	75224PC	†FSC	100-64	A857-H4B6A	†ITI	53-20
2504CPE	†INL	106-15	7524B	†MULB	100-53	55108ADM	†FSC	94-6	75225DC	†FSC	99-87	A857-H8B1A	†ITI	53-55
2504M/D	†INL	106-16		†SIC		55108AFM	†FSC	94-7	75225PC	†FSC	99-88	A857-H8B2A	†ITI	53-56
2504MJG	†INL	106-17	7524DC	†FSC	100-54	55108BDM	†FSC	94-8	75232DC	†FSC	100-65	A857-H8B3A	†ITI	53-57
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2802	†DMC	54-94		†SIC		55109FM	†FSC	38-1	75233PC	†FSC	99-90	A857-H8B4C	†ITI	53-60
2803	†DMC	54-95	7525DC	†FSC	99-71	55110DM	†FSC	38-2	75234DC	†FSC	100-67	A857-H8B5A	†ITI	53-61
3020	†ITI	51-46	7525PC	†FSC	99-72	55110FM	†FSC	38-3	75234PC	†FSC	100-68	A857-H8B6A	†ITI	53-62
3207A-1F	†MULB	41-4	7528DC	†FSC	100-57	55121DM	†FSC	37-34	75235DC	†FSC	99-91	A858-16	†ITI	59-29
3207AF	†PHIN		7528PC	†FSC	100-58	55121FM	†FSC	37-35	75235PC	†FSC	99-92	A859-10	†ITI	55-8
	†SIC		7529DC	†FSC	99-73	55122DM	†FSC	95-64	75238DC	†FSC	100-69	A859-12	†ITI	56-8
	†SIC		7529PC	†FSC	99-74	55122FM	†FSC	95-65	75238PC	†FSC	100-70	A860-12	†ITI	63-104
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4013/25	†BUB	102-74	7534PC	†FSC	100-60	55207FM	†FSC	101-9	75239PC	†FSC	99-94	A866-13	†ITI	66-106
4016	†TPN	66-99	7535DC	†FSC	99-75	55208DM	†FSC	101-10	75324A	†MULB	41-42	A867-14	†ITI	67-41
4020	†TPN	60-29	7535PC	†FSC	99-76	55208FM	†FSC	101-11	PHIN	†SIC		A867-16	†ITI	67-60
4021	†TPN	60-24	7538DC	†FSC	100-61	55224DM	†FSC	100-27	75324F	†MULB	41-43	A880	†ITI	102-39
4022	†TPN	61-100	7538PC	†FSC	100-62	55224FM	†FSC	100-28	PHIN	†SIC		A881	†ITI	102-30

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AD555UF	ANA	106-51	AD7530KN	ANA	61-65	ADC550-12-LD-MIL	ANA	57-1	ADC-10Z	ANA	55-15	ADC-L8B1C3	DTL	54-64
AD559KD/BIN	ANA	60-49	AD7530LD	ANA	62-13	ADC550-12-S	HBC	57-2	ADC-12QLJ	ANA	57-38	ADC-L8B1C4	DTL	54-65
AD559SD/BIN	ANA	60-50	AD7530LN	ANA	62-14	ADC550-12-S-G	HBC	57-2	ADC-12QLK	ANA	57-39	ADC-L8B1D3	DTL	54-66
AD561J	ANA	61-95	AD7550	ANA	58-74	ADC550-12-S-G	HBC	57-3	ADC-12QM	ANA	56-83	ADC-L8B1D4	DTL	54-67
AD561K	ANA	61-76	AD7570J	ANA	54-19	ADC550-12-S-G-MIL	HBC	57-4	ADC-12QM/ET	ANA	56-84	ADC-L8B2A1	DTL	54-68
AD561S	ANA	61-96	AD7570L	ANA	55-14	ADC550-12-S-MIL	HBC	57-4	ADC-12QU	ANA	57-84	ADC-L8B2B1	DTL	54-69
AD561T	ANA	61-77	ADAC-1	DDC	66-86	ADC550-12-S-MIL	HBC	57-4	ADC-12QU/ET	ANA	57-85	ADC-L8B2C3	DTL	54-70
AD562AD/BCD	ANA	63-95	ADAC-3	DDC	66-87	ADC550-12-S-MIL	HBC	57-5	ADC-12QZ	ANA	57-12	ADC-L8B2C4	DTL	54-71
AD562AD/BIN	ANA	63-96	ADAC-3BCD	DDC	67-10	ADC560-3-BCD	HBC	58-19	ADC-16Q	ANA	59-30	ADC-L8B2D3	DTL	54-72
AD562KD/BCD	ANA	66-55	ADC141	ANA	59-7	ADC560-3-BCD-E	HBC	58-20	ADC-89A8B	DTL	54-40	ADC-L8B2D4	DTL	54-73
AD562KD/BIN	ANA	64-88	ADC171	ANA	59-37	ADC560-3-BCD-E	HBC	58-20	ADC-89A8B-EX	DTL	54-41	ADC-L8D1A2	DTL	53-35
AD562SD/BCD	ANA	63-83	ADC30-08N-BTC	HBC	54-84	ADC560-3-BCD-E-MIL	HBC	58-21	ADC-89A8D	DTL	54-31	ADC-L8D1B2	DTL	53-36
AD562SD/BIN	ANA	63-84	ADC30-08N-USB	HBC	54-20	ADC560-3-BCD-E-MIL	HBC	58-22	ADC-89A8D-EX	DTL	54-32	ADC-L8D2A2	DTL	53-37
AD563J/BCD	ANA	66-46	ADC30-08Z-BTC	HBC	54-85	ADC560-3-BCD-LD	HBC	58-22	ADC-149-14B	DTL	58-87	ADC-L8D2B2	DTL	53-38
AD563J/BIN	ANA	64-44	ADC30-08Z-USB	HBC	54-21	ADC560-3-BCD-LD-MIL	HBC	58-23	ADC-CM8B2	DTL	54-45	ADC-L10B1A1	DTL	55-42
AD563K/BCD	ANA	66-47	ADC30-10N-BTC	HBC	55-75	ADC560-3-BCD-LD-MIL	HBC	58-24	ADC-CM8B2-EX	DTL	54-46	ADC-L10B1B1	DTL	55-43
AD563K/BIN	ANA	64-45	ADC30-10N-USB	HBC	55-23	ADC560-3-BCD-MIL	HBC	58-24	ADC-CM8B	DTL	54-47	ADC-L10B1C3	DTL	55-44
AD563S/BCD	ANA	66-48	ADC30-10Z-BTC	HBC	55-76	ADC560-12A	HBC	56-57	ADC-CM8B-EX	DTL	54-48	ADC-L10B1C4	DTL	55-45
AD563S/BIN	ANA	64-46	ADC30-10Z-USB	HBC	55-24	ADC560-12A-E	HBC	56-58	ADC-CM10B2	DTL	55-30	ADC-L10B1D3	DTL	55-46
AD563T/BCD	ANA	66-49	ADC30-12N-BCD	HBC	58-37	ADC560-12A-E-G	HBC	56-59	ADC-CM10B2-EX	DTL	55-31	ADC-L10B1D4	DTL	55-47
AD563T/BIN	ANA	64-47	ADC30-12N-BTC	HBC	58-1	ADC560-12A-E-G-MIL	HBC	56-60	ADC-CM10B2	DTL	55-32	ADC-L10B2A1	DTL	55-48
AD572AD	ANA	56-79	ADC30-12N-USB	HBC	58-37	ADC560-12A-E	HBC	56-61	ADC-CM10B-EX	DTL	55-33	ADC-L10B2B1	DTL	55-49
AD572BD	ANA	56-78	ADC30-12Z-BCD	HBC	58-38	ADC560-12A-E-G	HBC	56-62	ADC-CM12B2	DTL	57-52	ADC-L10B2C3	DTL	55-50
AD572BD	ANA	56-79	ADC30-12Z-BTC	HBC	58-2	ADC560-12A-E-G-MIL	HBC	56-63	ADC-CM12B2-EX	DTL	57-53	ADC-L10B2C4	DTL	55-51
AD572SD	ANA	102-95	ADC30-12Z-USB	HBC	58-2	ADC560-12A-E-MIL	HBC	56-64	ADC-CM12B	DTL	57-54	ADC-L10B2D3	DTL	55-52
AD582KD	ANA	102-96	ADC40-08-BIN	HBC	54-22	ADC560-12A-E	HBC	56-65	ADC-CM12B-EX	DTL	57-55	ADC-L10B2D4	DTL	55-53
AD582KH	ANA	102-96	ADC40-10-BIN	HBC	54-104	ADC560-12A-E-MIL	HBC	56-66	ADC-E8B2	DTL	54-42	ADC-L12B1A1	DTL	58-5
AD582SD	ANA	102-97	ADC40-12-BCD	HBC	56-89	ADC560-12A-E-MIL	HBC	56-67	ADC-E8B3	DTL	54-43	ADC-L12B1B1	DTL	58-6
AD582SH	ANA	102-98	ADC40-12-BIN	HBC	56-90	ADC560-12A-G	HBC	56-68	ADC-E8B4	DTL	54-44	ADC-L12B1C3	DTL	58-7
AD583K	ANA	102-102	ADC50-08-BIN	HBC	54-86	ADC560-12A-LD	HBC	56-64	ADC-E8B5	DTL	54-45	ADC-L12B1C4	DTL	58-8
AD7501JD	ANA	82-45	ADC50-10-BIN	HBC	55-77	ADC560-12A-LD-MIL	HBC	56-65	ADC-E8D2	DTL	54-89	ADC-L12B1D3	DTL	58-9
AD7501JN	ANA	82-46	ADC50-12-BCD	HBC	55-39	ADC560-12A-LD-MIL	HBC	56-66	ADC-E8D3	DTL	54-90	ADC-L12B1D4	DTL	58-10
AD7501JN	ANA	82-47	ADC50-12-BIN	HBC	57-98	ADC560-12A-LD-G-MIL	HBC	56-65	ADC-E8D4	DTL	54-91	ADC-L12B2A1	DTL	58-11
AD7501KD	ANA	82-47	ADC55-10-BIN	HBC	55-73	ADC560-12A-LD-MIL	HBC	56-67	ADC-E10B2	DTL	55-34	ADC-L12B2B1	DTL	58-12
AD7501KN	ANA	82-48	ADC55-12-BIN	HBC	57-83	ADC560-12A-MIL	HBC	56-68	ADC-E10B3	DTL	55-35	ADC-L12B2C3	DTL	58-13
AD7501SD	ANA	82-49	ADC60-10-USB	HBC	53-64	ADC560-12A-MIL	HBC	56-69	ADC-E10B4	DTL	55-36	ADC-L12B2C4	DTL	58-14
AD7502JD	ANA	83-13	ADC60-12-USB	HBC	55-4	ADC560-12B	HBC	57-86	ADC-E12B2	DTL	57-56	ADC-L12B2D3	DTL	58-15
AD7502JN	ANA	83-14	ADC80AG-10	MNC	55-18	ADC560-12B-E	HBC	57-87	ADC-E12B3	DTL	57-57	ADC-L12B2D4	DTL	58-16
AD7502KD	ANA	83-15	ADC80AG-10-CSB	HBC	54-103	ADC560-12B-E-G	HBC	57-88	ADC-E12D4	DTL	58-54	ADC-M15	DDC	59-25
AD7502KN	ANA	83-16	ADC80AG-12	MNC	56-80	ADC560-12B-E-G-MIL	HBC	57-89	ADC-ECONVERTER	DTL	53-31	ADC-MA10B2A	DTL	55-26
AD7502SD	ANA	83-17	ADC80AG-12-CSB	HBC	56-81	ADC560-12B-E-G-MIL	HBC	57-90	ADC-EH8B1	DTL	53-94	ADC-MA10B2B	DTL	55-27
AD7503JD	ANA	82-50	ADC82AG	HBC	53-90	ADC560-12B-LD	HBC	57-91	ADC-EH8B2	DTL	53-73	ADC-MA12B2A	DTL	57-13
AD7503JN	ANA	82-51	ADC82AM	HBC	53-91	ADC560-12B-LD-MIL	HBC	57-92	ADC-EH10B1	DTL	55-7	ADC-MA12B2B	DTL	57-14
AD7503KD	ANA	82-52	ADC84KG-10	HBC	54-97	ADC560-12B-LD-MIL	HBC	57-93	ADC-EH10B2	DTL	55-8	ADC-MC8B8	DTL	54-49
AD7503KN	ANA	82-53	ADC84KG-12	HBC	56-38	ADC560-12B-MIL	HBC	57-94	ADC-EH12B3	DTL	56-20	ADC-MC8B8M	DTL	54-50
AD7503SD	ANA	82-54	ADC85-10-CSB	HBC	54-98	ADC560-12C	HBC	58-25	ADC-EH12B3	DTL	56-21	ADC-SH4B	DTL	53-5
AD7506JD	ANA	82-89	ADC85-12-CSB	HBC	56-39	ADC560-12C-E	HBC	58-26	ADC-EK8B	DTL	54-57	ADC-TV8B	DTL	53-42
AD7506JN	ANA	82-90	ADC85C-10-CSB	HBC	54-99	ADC560-12C-E-G	HBC	58-27	ADC-EK10B	DTL	55-41	ADC-UH4B2	DTL	53-8
AD7506KD	ANA	82-91	ADC85C-12-CSB	HBC	56-40	ADC560-12C-E-G-MIL	HBC	58-28	ADC-EK12B	DTL	55-42	ADC-UH4B	DTL	53-9
AD7506KN	ANA	82-92	ADC100-BCD	HBC	59-33	ADC560-12C-E-MIL	HBC	58-29	ADC-EK12DC	DTL	57-64	ADC-UH4B2	DTL	53-27
AD7506SD	ANA	82-93	ADC100-BOB	HBC	59-35	ADC560-12C-E-MIL	HBC	58-30	ADC-EK12DR	DTL	57-65	ADC-UH4B2	DTL	53-28
AD7506TD	ANA	82-88	ADC100-SMD	HBC	59-34	ADC560-12C-G	HBC	58-31	ADC-EP14B5	DTL	58-75	ADC-UH4B2	DTL	54-74
AD7507JD	ANA	83-30	ADC100-USB	HBC	59-36	ADC560-12C-LD	HBC	58-32	ADC-EP14B6	DTL	58-76	ADC-UH4B2	DTL	54-75
AD7507JN	ANA	83-31	ADC535-3-BCD	HBC	57-65	ADC560-12C-LD-G	HBC	58-33	ADC-EP16D5	DTL	58-85	ADC-UH4B2	DTL	53-10
AD7507KD	ANA	83-32	ADC535-3-BCD-BF	HBC	57-66	ADC560-12C-LD-G-MIL	HBC	58-34	ADC-EP16D6	DTL	58-86	ADC-UH4B2	DTL	53-11
AD7507KN	ANA	83-33	ADC535-3-BCD-BF	HBC	57-66	ADC560-12C-LD-MIL	HBC	58-35	ADC-ER8B	DTL	53-34	ADC-UH4B2	DTL	53-12
AD7507SD	ANA	83-28	ADC535-12A-E	HBC	57-67	ADC560-12C-LD-MIL	HBC	58-36	ADC-ER8B	DTL	53-35	ADC-UH4B2	DTL	53-13
AD7507TD	ANA	83-29	ADC535-12A-E	HBC	57-67	ADC560-12C-LD-G	HBC	58-37	ADC-ER10B	DTL	54-96	ADC-UH4B2	DTL	53-14
AD7510JD	ANA	72-100	ADC535-12A-E	HBC	57-67	ADC560-12C-LD-G-MIL	HBC	58-38	ADC-ER12B	DTL	56-7	ADC-UH4B2	DTL	53-15
AD7510JN	ANA	72-101	ADC535-12A-E	HBC	57-67	ADC560-12C-LD-G-MIL	HBC	58-39	ADC-ER12D	DTL	56-8	ADC-UH4B2	DTL	53-16
AD7510KD	ANA	72-102	ADC535-12A-E	HBC	57-67	ADC560-12C-LD-G-MIL	HBC	58-40	ADC-G8B1A	DTL	53-44	ADH-10/1	DDC	58-17
AD7510KN	ANA	72-103	ADC535-12A-E	HBC	57-67	ADC560-12C-LD-G-MIL	HBC	58-41	ADC-G8B2A	DTL	53-45	ADH-10/5	DDC	57-72
AD7510SD	ANA	72-104	ADC535-12A-E	HBC	57-67	ADC560-12C-LD-G-MIL	HBC	58-42	ADC-G8B3B	DTL	53-46	ADH-030-8-3	DDC	66-78
AD7511JD	ANA	80-27	ADC535-12A-E	HBC	57-67	ADC560-12C-LD-G-MIL	HBC	58-43	ADC-G8B3C	DTL	53-47	ADH-030-10-1	DDC	66-79
AD7511JN	ANA	80-28	ADC535-12A-E	HBC	57-67	ADC560-12C-LD-G-MIL	HBC	58-44	ADC-G8B4B	DTL	53-48	ADH-030-10-3	DDC	66-24
AD7511KD	ANA	80-29	ADC535-12A-E	HBC	57-67	ADC560-12C-LD-G-MIL	HBC	58-45	ADC-G8B4C	DTL	53-49	ADH-030-11-1	DDC	66-1
AD7511KN	ANA	80-30	ADC535-12A-E	HBC	57-67	ADC560-12C-LD-G-MIL	HBC	58-46	ADC-G10B1A	DTL	54-105	ADH-030-11-3	DDC	66-2
AD7511SD	ANA	80-31	ADC535-12A-E	HBC	57-67	ADC560-12C-LD-G-MIL	HBC	58-47	ADC-G10B2A	DTL	54-106	ADH-030-12-1	DDC	64-1
AD7511TD	ANA	80-32	ADC535-12A-E	HBC	57-67	ADC560-12C-LD-G-MIL	HBC	58-48	ADC-G10B3B	DTL	54-107	ADH-030-12-3	DDC	64-2
AD7512JD	ANA	81-44	ADC535-12A-E	HBC	57-67	ADC560-12C-LD-G-MIL	HBC	58-49	ADC-G10B3C	DTL	54-108	ADH-050	DDC	102-5
AD7512JN	ANA	81-45	ADC535-12A-E	HBC	57-67	ADC560-12C-LD-G-MIL	HBC	58-50	ADC-G10B4C	DTL	55-1	ADH-051	DDC	102-6
AD7512KD	ANA	81-46	ADC535-12A-E	HBC	57-67	ADC560-12C-LD-G-MIL	HBC	58-51	ADC-H6B1A	DTL	53-21	ADH-85-12-7-1	DDC	54-78
AD7512KN	ANA	81-47	ADC535-12A-E	HBC	57-67	ADC560-12C-LD-G-MIL	HBC	58-52	ADC-H6B2A	DTL	53-22	ADH-85-12-7-3	DDC	54-79
AD7512SD	ANA	81-48	ADC535-12A-E	HBC	57-67	ADC560-12C-LD-G-MIL	HBC	58-53	ADC-H6B3B	DTL	53-23	ADH-85-12-8-1	DDC	53-69
AD7512TD	ANA	81-49	ADC535-12A-E	HBC	57-67	ADC560-12C-LD-G-MIL	HBC	58-54	ADC-H6B3C	DTL	53-24	ADH-85-12-8-3	DDC	53-70
AD7513JD	ANA	79-110	ADC535-12A-E	HBC	57-67	ADC560-12C-LD-G-MIL	HBC	58-55	ADC-H6B4B	DTL	53-25	ADH-85-16-11-1	DDC	57-70
AD7513JN	ANA	80-1	ADC535-12A-E	HBC	57-67	ADC560-12C-LD-G-MIL	HBC	58-56	ADC-H6B4C	DTL	53-26	ADH-85-16-11-3	DDC	57-71
AD7513KH	ANA	80-2	ADC535-12A-E	HBC	57-67	ADC560-12C-LD-G-MIL	HBC	58-57	ADC-H8-1	DDC	53-106	ADH-85-16-12-1	DDC	56-25
AD7513KN	ANA	80-3	ADC535-12A-E	HBC	57-67	ADC560-12C-LD-G-MIL	HBC	58-58	ADC-H8-3	DDC	53-107	ADH-85-16-12-3	DDC	56-26
AD7513SH	ANA	80-4	ADC535-12A-E	HBC	57-67	ADC560-12C-LD-G-MIL	HBC	58-59	ADC-H10-1	DDC	5			

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
AH0142CD	*NSC	79-71	AM7831W	*AMV	38-53	CD4053BK	*RCA	83-51	CM4116AD	*SOD	72-48	DAC04BCX2	*PMI	61-70
AH0142D	*NSC	79-72	AM7831X	*AMV	38-53	CD4054BD	*RCA	47-1	CM4116AE	*SOD	72-49	DAC04CCX2	*PMI	60-98
AH0143CD	*NSC	78-33	AM7832J	*AMV	38-54	CD4054BE	*RCA	47-2	CSH101A	*TCY	71-54	DAC04DDX2	*PMI	60-22
AH0143D	*NSC	78-35	AM7832W	*AMV	38-55	CD4054BE	*RCA	47-3	CSR301	*TCY	44-99	DAC05-883AX1	*PMI	63-60
AH0144CD	*NSC	78-30	AM8831J	*AMV	38-56	CD4054BH	*RCA	47-4	D112CDD	*INL	52-7	DAC05-883AX2	*PMI	63-61
AH0144D	*NSC	78-30	AM8831N	*AMV	38-57	CD4054BK	*RCA	47-5	D112CFD	*INL	52-8	DAC05-883BX1	*PMI	63-71
AH0145CD	*NSC	79-59	AM8831X	*AMV	38-61	CD4055BD	*RCA	48-40	D112IDD	*INL	52-9	DAC05-883BX2	*PMI	63-72
AH0145D	*NSC	79-60	AM8832J	*AMV	38-58	CD4055BE	*RCA	48-41	D112IFD	*INL	52-10	DAC05-883CX1	*PMI	63-77
AH0146CD	*NSC	78-28	AM8832N	*AMV	38-59	CD4055BH	*RCA	48-42	D112MDD	*INL	52-11	DAC05-883CX2	*PMI	63-78
AH0146D	*NSC	78-29	AM8709CN	*NSC	38-62	CD4055BH	*RCA	48-43	D112MFD	*INL	52-12	DAC05AX1	*PMI	63-62
AH0151CD	*NSC	71-97	AM9710CN	*NSC	76-22	CD4056BD	*RCA	48-44	D113CFD	*INL	52-13	DAC05AX2	*PMI	63-63
AH0151CN	*NSC	71-98	AM9711CN	*NSC	76-37	CD4056BE	*RCA	50-107	D113IDD	*INL	52-14	DAC05BX1	*PMI	63-73
AH0151D	*NSC	71-99	AM9711CN	*NSC	73-30	CD4056BE	*RCA	50-108	D113IFD	*INL	52-15	DAC05BX2	*PMI	63-74
AH0152CD	*NSC	71-100	AM9712CN	*NSC	73-33	CD4056BF	*RCA	50-109	D113MDD	*INL	52-16	DAC05CX1	*PMI	63-79
AH0152CN	*NSC	71-101	ATF456A	*APX	52-3	CD4056BH	*RCA	50-110	D113MFD	*INL	52-17	DAC05CX2	*PMI	63-80
AH0152D	*NSC	71-102	ATF466#1	*APX	52-3	CD4056BK	*RCA	51-1	D120CDD	*INL	52-18	DAC05EX1	*PMI	63-64
AH0153CD	*NSC	73-14	ATF466#2	*APX	52-3	CD4066AD	*RCA	72-32	D120CFD	*INL	52-19	DAC05EX2	*PMI	63-65
AH0153D	*NSC	73-15	ATF467A	*APX	52-4	CD4066AE	*RCA	72-34	D120IDD	*INL	52-20	DAC05FX1	*PMI	63-75
AH0154CD	*NSC	73-16	ATF468	*APX	52-40	CD4066AF	*RCA	72-35	D120MDD	*INL	52-21	DAC05FX2	*PMI	63-76
AH0154D	*NSC	73-17	ATF474	*APX	40-25	CD4066AG	*RCA	72-36	D120MFD	*INL	52-22	DAC05GX1	*PMI	63-81
AH0161CD	*NSC	78-24	AY5-1012	*GIC	105-50	CD4066AK	*RCA	72-37	D120MDD	*INL	52-23	DAC05GX2	*PMI	63-82
AH0161D	*NSC	78-25	BD5030	*BOW	47-66	CD4066AJ	*RCA	72-38	D120MDD	*INL	52-24	DAC06-883AX	*PMI	63-27
AH0162CD	*NSC	78-26	BD5031	*BOW	47-67	CD4066AB	*RCA	82-76	D121CDD	*INL	52-25	DAC06-883BX	*PMI	63-26
AH0162D	*NSC	78-27	BDAC-H-1	*DDC	67-19	CD4066AB	*RCA	82-77	D121CFD	*INL	52-26	DAC06-883CX	*PMI	63-41
AH0163CD	*NSC	79-55	BDAC-H-3	*DDC	67-20	CD4066AB	*RCA	82-78	D121IDD	*INL	52-27	DAC06AX	*PMI	63-28
AH0163D	*NSC	79-56	BDAC-L-1	*DDC	67-31	CD4066AB	*RCA	82-79	D121IFD	*INL	52-28	DAC06BX	*PMI	63-37
AH0164CD	*NSC	79-57	BDAC-L-3	*DDC	67-32	CD4069UBD	*RCA	22-42	D121MDD	*INL	52-29	DAC06CX	*PMI	63-42
AH0164D	*NSC	79-58	BHB0007	*SOD	42-32	CD4069UBD	*RCA	22-43	D121MFD	*INL	52-30	DAC06EX	*PMI	63-29
AH2114CG	*NSC	81-76	BHB0007A	*SOD	42-33	CD4069UBF	*RCA	22-44	D123AL	*SIX	52-79	DAC06FX	*PMI	63-38
AH2114G	*NSC	81-75	BHB0008	*SOD	42-34	CD4069UBH	*RCA	22-45	D123AP	*SIX	52-80	DAC06GX	*PMI	63-43
AH5009CN	*NSC	76-20	BHB0008A	*SOD	42-35	CD4069UBK	*RCA	22-46	D123BL	*SIX	52-81	DAC06-883AQ	*PMI	60-32
AH5010CN	*NSC	76-35	BP19501	*BUR	51-31	CD4093BD	*RCA	104-31	D123BP	*SIX	52-82	DAC08-883Q	*PMI	60-42
AH5011CN	*NSC	73-28	BP19502	*BUR	51-32	CD4093BE	*RCA	104-32	D123CDD	*INL	52-67	DAC08AQ	*PMI	60-33
AH5012CN	*NSC	73-31	CAG6	*TCY	71-5	CD4093BF	*RCA	104-33	D123CFD	*INL	52-68	DAC08CQ	*PMI	61-34
AH5013CN	*NSC	75-74	CAG6-10	*TCY	71-6	CD4093BH	*RCA	104-34	D123IDD	*INL	52-69	DAC08EQ	*PMI	60-44
AH5014CN	*NSC	75-87	CAG7	*TCY	78-22	CD4093BK	*RCA	104-35	D123IFD	*INL	52-70	DAC08HQ	*PMI	60-34
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DG126BPΔ	◆SIX	74-90	DG154BPLΔ	◆SIX	74-41	DG186BP	◆INL	77-44	DG305BP	◆SIX	78-51	DM8880B	◆SIC	◆SIC
DG129ADD	◆INL	74-60	DG161ADD	◆INL	77-48	DG186BPΔ	◆SIX	77-45	DG305CJ	◆SIX	78-52	DM54141J	◆NSC	48-63
DG129AFD	◆INL	74-61	DG161AFD	◆INL	77-49	DG186BA	◆INL	77-52	DG306AL	◆SIX	81-12	DM54141W	◆NSC	48-64
DG129AF	◆SIX	75-13	DG161AF	◆SIX	77-20	DG186BAΔ	◆SIX	77-53	DG306AP	◆SIX	81-13	DM74141J	◆NSC	48-65
DG129BDD	◆INL	75-14	DG161BDD	◆INL	77-21	DG186BL	◆INL	77-54	DG306BL	◆SIX	81-14	DM74141N	◆NSC	48-66
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DG129BL	◆SIX	75-18	DG161BFL	◆INL	77-51	DG186BP	◆INL	77-56	DG306CJ	◆SIX	81-16	DS0025CH	◆NSC	40-54
DG129BP	◆SIX	75-19	DG161BPL	◆SIX	77-22	DG186BPΔ	◆SIX	77-57	DG307AL	◆SIX	79-6	DS0025CN	◆NSC	40-55
DG129BPΔ	◆SIX	75-19	DG161BPLΔ	◆SIX	77-23	DG187AA	◆INL	77-64	DG307AP	◆SIX	79-7	DS0025H	◆NSC	40-56
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DG133AFD	◆INL	74-13	DG162AFD	◆INL	77-79	DG187AL	◆INL	77-65	DG307BP	◆SIX	79-9	DS0026CH	◆NSC	40-58
DG133AF	◆SIX	73-66	DG162AF	◆SIX	77-24	DG187ALΔ	◆SIX	77-10	DG307CJ	◆SIX	79-10	DS0026CJ	◆NSC	40-59
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DG133BFD	◆INL	74-15	DG162BFD	◆INL	77-80	DG187AP#1	◆INL	77-66	DG501BP	◆SIX	82-16	DS0026G	◆NSC	40-61
DG133BL	◆SIX	73-75	DG162BFL	◆INL	77-81	DG187AP#2	◆INL	77-67	DG501CJ	◆SIX	82-17	DS0026H	◆NSC	40-62
DG133BP	◆SIX	73-76	DG162BPL	◆SIX	77-32	DG187BA	◆INL	77-82	DG503AP	◆SIX	82-39	DS0026J	◆NSC	40-63
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DG134AFD	◆INL	74-24	DG163AFD	◆INL	79-28	DG187BL	◆INL	77-83	DG506AR	◆SIX	82-97	DS0056CG	◆NSC	40-65
DG134AF	◆SIX	73-94	DG163AF	◆SIX	79-11	DG187BP	◆SIX	77-14	DG506BR	◆SIX	82-100	DS0056CH	◆NSC	40-66
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DG134BP	◆SIX	73-93	DG164ADD	◆INL	79-39	DG188AAΔ	◆SIX	77-90	DG507CJ	◆SIX	83-40	DS0056H	◆NSC	40-70
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DG139AFD	◆INL	79-32	DG164AF	◆SIX	79-13	DG188ALΔ	◆SIX	77-92	DG508AP	◆SIX	82-61	DS78L12J	◆NSC	70-5
DG139AF	◆SIX	79-33	DG164BDD	◆INL	79-14	DG188AP	◆SIX	77-93	DG508BP	◆SIX	82-62	DS78L12W	◆NSC	70-6
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DG141BP	◆SIX	73-59	DG180AP	◆INL	73-55	DG190AL	◆INL	78-65	DG516CJ	◆SIX	81-95	DS1613H	◆NSC	44-78
DG142ADD	◆INL	79-43	DG180APΔ	◆SIX	73-56	DG190ALΔ	◆SIX	78-66	DGL-13-1	◆DDC	106-52	DS1614H	◆NSC	44-79
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DG142BDD	◆INL	79-47	DG180BLΔ	◆SIX	73-62	DG190BL	◆INL	78-70	DGM111BP	◆SIX	71-80	DS1632J	◆NSC	44-38
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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
DS3632H	*NSC	44-51	DS7535J	*NSC	99-103	DS8837J	*NSC	96-33	DS75208J	*NSC	93-15	G117MDD	*INL	76-104
DS3632J	*NSC	44-52	DS7535N	*NSC	99-104	DS8837N	*NSC	96-34	DS75208N	*NSC	93-16	G117MFD	*INL	76-105
DS3632N	*NSC	44-53	DS7538AJ	*NSC	101-6	DS8838J	*NSC	97-52	DS75324J	*NSC	41-9	G118AL	*SIX	76-68
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DS3633J	*NSC	44-55	DS7538J	*NSC	100-81	DS8839J	*NSC	97-54	DS75325J	*NSC	41-15	G118BL	*SIX	76-76
DS3633H	*NSC	44-56	DS7538N	*NSC	100-82	DS8839N	*NSC	97-55	DS75325N	*NSC	41-16	G118CDD	*INL	76-106
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DS3634J	*NSC	41-26	DS7539N	*NSC	99-106	DS8855N	*NSC	48-20	DS75361N	*NSC	69-94	G118IDD	*INL	76-108
DS3640J	*NSC	41-27	DS7640J	*NSC	95-105	DS8856J	*NSC	48-3	DS75362J	*NSC	69-95	G118IFD	*INL	76-109
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DS3643N	*NSC	40-89	DS7802J	*NSC	101-30	DS8859J	*NSC	51-33	DS75365N	*NSC	70-4	G119CDD	*INL	75-58
DS3644J	*NSC	40-90	DS7806J	*NSC	101-31	DS8859N	*NSC	51-34	DS75450J	*NSC	43-5	G119CFD	*INL	75-59
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DS3645J	*NSC	41-77	DS7810J	*NSC	69-101	DS8863N	*NSC	48-12	DS75451H	*NSC	43-7	G119IFD	*INL	75-61
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DS3673J	*NSC	40-92	DS7836W	*NSC	96-23	DS8885N	*NSC	48-56	DV610	*HBC	105-62	G128AF	*SIX	80-33
DS3673N	*NSC	40-93	DS7837J	*NSC	96-31	DS8887J	*NSC	47-29	DV611	*HBC	105-63	G128AP	*SIX	80-34
DS3674J	*NSC	40-94	DS7837W	*NSC	96-32	DS8887N	*NSC	47-30	DV640	*HBC	105-91	G128BF	*SIX	80-36
DS3674N	*NSC	40-95	DS7838J	*NSC	97-38	DS8889J	*NSC	47-31	DV641	*HBC	105-92	G128BP	*SIX	80-37
DS3675J	*NSC	41-83	DS7838W	*NSC	97-39	DS8889N	*NSC	47-32	EDAC-8-1	*DDC	63-66	G128IFD	*INL	72-70
DS3675N	*NSC	41-84	DS7839J	*NSC	97-40	DS8891J	*NSC	47-15	EDAC-8-3	*DDC	63-67	G128MFD	*INL	72-71
DS3676J	*NSC	41-85	DS7839W	*NSC	97-41	DS8891N	*NSC	47-16	EDAC-9-1	*DDC	63-58	G129AF	*SIX	80-43
DS3676N	*NSC	41-86	DS7856J	*NSC	47-104	DS8892N	*NSC	47-93	EDAC-9-3	*DDC	63-59	G129IFD	*INL	75-102
DS3677J	*NSC	41-32	DS7856W	*NSC	47-105	DS8895J	*NSC	47-73	EDAC-10-1	*DDC	63-56	G129MFD	*INL	75-103
DS3677N	*NSC	41-33	DS7858J	*NSC	47-106	DS8895N	*NSC	47-74	EDAC-10-3	*DDC	63-57	G130AF	*SIX	80-41
DS3678J	*NSC	89-101	DS7858W	*NSC	47-107	DS8897J	*NSC	47-33	EDAC-11-1	*DDC	63-51	G130IFD	*INL	75-96
DS3678N	*NSC	89-102	DS7880J	*NSC	48-51	DS8897N	*NSC	47-34	EDAC-11-3	*DDC	63-52	G130MFD	*INL	75-97
DS3679J	*NSC	41-87	DS7885J	*NSC	48-52	DS8963N	*NSC	48-16	FLH351-7413	*SIEG	103-37	G131AF	*SIX	80-39
DS3679N	*NSC	41-88	DS7887J	*NSC	47-26	DS8973N	*NSC	48-30	FLH355-8413	*SIEG	103-38	G131IFD	*INL	76-14
DS3686H	*NSC	44-58	DS7889J	*NSC	47-27	DS8974N	*NSC	48-31	FLH601-74132	*SIEG	103-59	G131MFD	*INL	76-15
DS3686J	*NSC	44-59	DS7891J	*NSC	47-14	DS8976N	*NSC	48-32	FLH605-84132	*SIEG	103-60	G132AF	*SIX	80-35
DS3686N	*NSC	44-60	DS7895J	*NSC	47-28	DS8977N	*NSC	48-9	FLL101-74141	*SIEG	49-66	G132IFD	*INL	76-12
DS3687H	*NSC	44-61	DS7897J	*NSC	47-28	DS16147J	*NSC	41-34	FLL121-7446	*SIEG	48-93	G132MFD	*INL	76-13
DS3687J	*NSC	44-62	DS8640J	*NSC	95-107	DS16149J	*NSC	41-89	FLL121T-7447	*SIEG	48-94	G1330IFD	*INL	72-68
DS3687N	*NSC	44-63	DS8640N	*NSC	95-108	DS16177J	*NSC	41-35	FLL121U-7446A	*SIEG	48-95	G133MFD	*INL	72-69
DS3688J	*NSC	38-36	DS8641J	*NSC	97-42	DS16179J	*NSC	41-90		*SIEG		G1340IFD	*INL	72-26
DS3688N	*NSC	38-37	DS8641N	*NSC	97-43	DS36147J	*NSC	41-36	FLL121V-7447A	*SIEG	48-96	G134MFD	*INL	72-27
DS3689J	*NSC	95-18	DS8642J	*NSC	97-44	DS36147N	*NSC	41-37		*SIEG		G1350IFD	*INL	75-71
DS3689N	*NSC	95-19	DS8642N	*NSC	97-45	DS36149J	*NSC	41-91	FLL125-8446	*SIEG	48-97	G135MFD	*INL	75-72
DS3690J	*NSC	95-20	DS8650	*NSC	47-69	DS36149N	*NSC	41-92	FLL125T-8447	*SIEG	48-98	G1360IFD	*INL	75-69
DS3690N	*NSC	95-21	DS8650N	*NSC	47-70	DS36177J	*NSC	41-38	FLL125U-8446A	*SIEG	48-99	G136MFD	*INL	75-70
DS5520AJ	*NSC	99-47	DS8651	*NSC	47-108	DS36177N	*NSC	41-39		*SIEG		GFB7404D	*MULB	24-69
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DS5522J	*NSC	99-32	DS8658	*NSC	47-71	DS55107W	*NSC	93-24	FLY115-84150	*SIEG	85-108	GXB10110	*MULB	38-72
DS5523J	*NSC	99-11	DS8658N	*NSC	47-72	DS55108J	*NSC	93-25	FLY121-74151A	*SIEG	85-75		*VALG	
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DS5525J	*NSC	99-95	DS8673J	*NSC	51-16	DS55110J	*NSC	38-9		*SIEG		GXB10114	*RTCF	95-1
DS5528AJ	*NSC	100-107	DS8673N	*NSC	51-17	DS55121J	*NSC	38-76	FLY131-74153	*SIEG	86-108	GXB10115	*RTCF	95-15
DS5528J	*NSC	100-72	DS8674J	*NSC	51-18	DS55121W	*NSC	38-77	FLY135-84153	*SIEG	86-109		*VALG	
DS5529J	*NSC	99-96	DS8674N	*NSC	51-19	DS55122J	*NSC	95-78	FLY151-74155	*SIEG	92-46	GXB10116	*RTCF	95-2
DS5534AJ	*NSC	100-108	DS8800H	*NSC	68-80	DS55122W	*NSC	95-79	FLY155-84155	*SIEG	92-47	GXB10124	*RTCF	69-78
DS5534J	*NSC	100-73	DS8802J	*NSC	101-33	DS55325J	*NSC	41-13	FLY161-74156	*SIEG	92-48	GXB10125	*RTCF	69-41
DS5535J	*NSC	99-97	DS8802N	*NSC	101-34	DS55325W	*NSC	41-14	FLY165-84156	*SIEG	92-49	GXB10132	*MULB	86-31
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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
HD1-246	◆HAS	94-71	H11-506-5	◆HAS	82-98	HSDC-14-H-1	◆DDC	59-19	IHS012CPE	◆INL	81-51	IHS043CPE	◆INL	78-90
HD1-248	◆HAS	94-72	H11-506A-2	◆HAS	82-103	HSDC-14-H-3	◆DDC	59-20	IHS013CPD	◆INL	81-22	IHS043MDE	◆INL	78-103
HD1-249	◆HAS	94-73	H11-506A-5	◆HAS	82-105	HSDC-14-L-1	◆DDC	59-21	IHS014CPD	◆INL	81-23	IHS043MFD	◆INL	78-104
HD1-545	◆HAS	38-24	H11-507-2	◆HAS	82-55	HSDC-14-L-3	◆DDC	59-22	IHS015CPE	◆INL	81-67	IHS044BCDE	◆INL	80-44
HD1-546	◆HAS	94-74	H11-507-5	◆HAS	82-58	HWG16	◆ECD	91-79	IHS016CPE	◆INL	81-68	IHS044BCPE	◆INL	80-45
HD1-548	◆HAS	94-75	H11-507A-2	◆HAS	82-64	I313	◆ICC	47-44	IHS017CPA	◆INL	81-20	IHS044BCWTW	◆INL	80-46
HD1-549	◆HAS	94-76	H11-507A-5	◆HAS	82-69	I401	◆ICC	47-53	IHS018CPA	◆INL	81-21	IHS044BMDE	◆INL	80-47
HD1-1489	◆HAS	95-95	H11-508A-2	◆HAS	82-65	I403	◆ICC	68-67	IHS019CPA	◆INL	81-63	IHS044BMFD	◆INL	80-48
HD1-1489A	◆HAS	96-3	H11-508A-5	◆HAS	82-70	I404	◆ICC	68-68	IHS020CPA	◆INL	81-64	IHS044BMTW	◆INL	80-49
HD9-54C14	◆HAS	104-50	H11-509A-2	◆HAS	82-3	I405	◆ICC	45-108	IHS021CPA	◆INL	81-18	IHS044CDE	◆INL	80-50
HD9-74C14	◆HAS	104-51	H11-509A-5	◆HAS	82-4	I406	◆ICC	47-11	IHS022CPA	◆INL	81-19	IHS044CPE	◆INL	80-51
HD9-245	◆HAS	38-25	H11-1080	◆HAS	60-107	I408	◆ICC	69-50	IHS023CPA	◆INL	81-29	IHS044CTW	◆INL	80-52
HD9-246	◆HAS	94-77	H11-1085	◆HAS	61-36	I409	◆ICC	69-51	IHS024CPA	◆INL	81-30	IHS044MDE	◆INL	80-53
HD9-248	◆HAS	94-78	H11-1800A2	◆HAS	73-24	I413	◆ICC	68-62	IHS025CDD	◆INL	75-88	IHS044MFD	◆INL	80-54
HD9-249	◆HAS	94-79	H11-1800A5	◆HAS	73-25	I414	◆ICC	37-1	IHS025CPD	◆INL	75-89	IHS044MTW	◆INL	80-55
HD9-545	◆HAS	38-26	H11-1818A-2	◆HAS	82-59	I415	◆ICC	95-49	IHS025MDD	◆INL	75-90	IHS045BCDE	◆INL	80-60
HD9-546	◆HAS	94-80	H11-1818A-5	◆HAS	82-60	I416	◆ICC	68-63	IHS025MPD	◆INL	75-91	IHS045BCPE	◆INL	80-61
HD9-548	◆HAS	94-81	H11-1828A-2	◆HAS	82-1	ICH7201CDD	◆INL	40-38	IHS026CDD	◆INL	75-92	IHS045BMDE	◆INL	80-62
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HD2916	◆HITJ	40-85	H11-5040-2	◆HAS	79-83	ICH7201MGC	◆INL	40-41	IHS026MPD	◆INL	75-95	IHS045CPE	◆INL	80-68
HD103461	◆HITJ	101-38	H11-5040-5	◆HAS	79-84	ICL7101CDD	◆INL	106-55	IHS027CDE	◆INL	72-74	IHS045MDE	◆INL	80-77
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HDAC-9-3	◆DDC	67-34	H11-5041-5	◆HAS	80-11	ICL7103ACDI	◆INL	106-57	IHS027MDE	◆INL	72-76	IHS046BCDE	◆INL	79-15
HDAC-10-1	◆DDC	67-23	H11-5042-2	◆HAS	81-59	ICL7103ACPI	◆INL	106-58	IHS027MPE	◆INL	72-77	IHS046BCPE	◆INL	79-16
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HDAC-12-1	◆DDC	66-100	H11-5044-2	◆HAS	80-56	ICL8018AMDD	◆INL	106-62	IHS028MPD	◆INL	72-81	IHS046CPE	◆INL	79-50
HDAC-12-3	◆DDC	66-101	H11-5044-5	◆HAS	80-57	ICL8019ACPD	◆INL	106-63	IHS029CDD	◆INL	75-29	IHS046MDE	◆INL	79-53
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HDAS-8MR	◆DTL	105-66	H11-5046-2	◆HAS	79-67	ICL8020AMDD	◆INL	106-66	IHS029MPD	◆INL	75-32	IHS047BCPE	◆INL	80-88
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HDAS-16MM	◆DTL	105-68	H11-5046A-2	◆HAS	79-61	ICL8052ACPD	◆INL	106-68	IHS030CPD	◆INL	75-34	IHS047BMFD	◆INL	80-90
HDAS-16MR	◆DTL	105-69	H11-5046A-5	◆HAS	79-62	ICL8052CDD	◆INL	106-69	IHS030MDD	◆INL	75-35	IHS047CDE	◆INL	80-91
HEF4007P	◆MULB	21-36	H11-5047-2	◆HAS	80-99	ICL8052CPD	◆INL	106-70	IHS030MPD	◆INL	75-36	IHS047CPE	◆INL	80-92
◆PHIN	◆SIC		H11-5047-5	◆HAS	80-100	ICL8053ACDD	◆INL	106-71	IHS031CDD	◆INL	72-10	IHS047MDE	◆INL	80-93
	◆VALG		H11-5047A-2	◆HAS	80-95	ICL8053ACPD	◆INL	106-72	IHS031CPD	◆INL	72-11	IHS047MFD	◆INL	80-94
HEF4016P	◆MULB	72-50	H11-5047A-5	◆HAS	80-96	ICL8053CDD	◆INL	106-73	IHS031MDD	◆INL	72-12	IHS048CDE	◆INL	79-97
◆PHIN	◆SIC		H11-5048-2	◆HAS	80-6	ICL8053CPD	◆INL	106-74	IHS031MPD	◆INL	72-13	IHS048CTW	◆INL	79-98
	◆VALG		H11-5048-5	◆HAS	80-7	IH181CDD	◆INL	71-49	IHS032CDD	◆INL	72-14	IHS048MDE	◆INL	79-94
HEF4019P	◆MULB	87-107	H11-5049-2	◆HAS	80-79	IH181CFD	◆INL	71-50	IHS032CPD	◆INL	72-15	IHS048MFD	◆INL	79-95
◆PHIN	◆SIC		H11-5049-5	◆HAS	80-80	IH181CTW	◆INL	71-51	IHS032MDD	◆INL	72-16	IHS048MTW	◆INL	79-96
	◆VALG		H11-5050-2	◆HAS	81-55	IH181MDD	◆INL	71-32	IHS032MPD	◆INL	72-17	IHS049CDE	◆INL	80-66
HEF4041P	◆MULB	68-3	H11-5050-5	◆HAS	81-56	IH181MFD	◆INL	71-33	IHS033CDD	◆INL	74-109	IHS049MDE	◆INL	80-64
◆PHIN	◆SIC		H11-5051-2	◆HAS	78-105	IH181MTW	◆INL	71-34	IHS033CPA	◆INL	74-110	IHS049MFD	◆INL	80-65
	◆VALG		H11-5051-5	◆HAS	78-106	IH182CDD	◆INL	71-67	IHS033CPD	◆INL	75-1	IHS050CDE	◆INL	77-74
HEF4049P	◆MULB	68-32	H13-200-2	◆HAS	71-110	IH182CFD	◆INL	71-68	IHS033MDD	◆INL	75-2	IHS050CTW	◆INL	77-75
◆PHIN	◆RTCF		H13-200-4	◆HAS	72-1	IH182CTW	◆INL	71-69	IHS033MPA	◆INL	75-3	IHS050MDE	◆INL	77-71
	◆SIC		H13-200-5	◆HAS	72-2	IH182MDD	◆INL	71-55	IHS033MPD	◆INL	75-4	IHS050MFD	◆INL	77-72
HEF4050P	◆MULB	68-33	H19-200-2	◆HAS	72-2	IH182MFD	◆INL	71-56	IHS034CDD	◆INL	75-5	IHS050MTW	◆INL	77-73
◆PHIN	◆RTCF		H19-200-4	◆HAS	72-3	IH182MTW	◆INL	71-57	IHS034CPA	◆INL	75-6	IHS051CDE	◆INL	78-74
	◆SIC		H19-200-5	◆HAS	72-3	IH184CDE	◆INL	73-4	IHS034CPD	◆INL	75-7	IHS051MDE	◆INL	78-72
HEF4051P	◆MULB	82-23	H19-201-2	◆HAS	72-107	IH184CFD	◆INL	73-5	IHS034MDD	◆INL	75-8	IHS051MFD	◆INL	78-73
◆PHIN	◆SIC		H19-201-4	◆HAS	72-108	IH184MDE	◆INL	73-1	IHS034MPA	◆INL	75-9	IHS060CDD	◆INL	82-102
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	◆VALG		H19-5040-2	◆HAS	79-85	IH185MDE	◆INL	73-6	IHS035CPD	◆INL	71-72	IHS1101DE	◆INL	102-76
HEF4053P	◆MULB	83-46	H19-5040-5	◆HAS	79-86	IH185MFD	◆INL	73-7	IHS035CPE	◆INL	71-73	IHS110MDE	◆INL	102-77
◆PHIN	◆SIC		H19-5041-2	◆HAS	80-12	IH187CDD	◆INL	77-86	IHS035MDD	◆INL	71-74	IHS1111DE	◆INL	102-78
	◆VALG		H19-5041-5	◆HAS	80-13	IH187CFD	◆INL	77-87	IHS035MDE	◆INL	71-75	IHS111MDE	◆INL	102-79
HEF4066P	◆MULB	72-39	H19-5042-2	◆HAS	81-61	IH187CTW	◆INL	77-88	IHS035MPD	◆INL	71-76	IM5001CDD	◆INL	39-29
◆PHIN	◆SIC		H19-5042-5	◆HAS	81-62	IH187MDD	◆INL	77-89	IHS035MPE	◆INL	71-77	IM5001MDD	◆INL	39-30
	◆VALG		H19-5043-2	◆HAS	81-65	IH187MFD	◆INL	77-69	IHS036CDD	◆INL	71-80	IM5001NDD	◆INL	39-31
HEF4067P	◆MULB	82-75	H19-5043-5	◆HAS	81-66	IH187MTW	◆INL	77-70	IHS036CDE	◆INL	71-81	IM5003ACDD	◆INL	40-103
◆PHIN	◆SIC		H19-5044-2	◆HAS	80-58	IH188CDD	◆INL	78-8	IHS036CPD	◆INL	71-82	IM5003ACPD	◆INL	40-104
	◆VALG		H19-5044-5	◆HAS	80-59	IH188CFD	◆INL	78-9	IHS036CPE	◆INL	71-83	IM5003ACTC	◆INL	40-105
HEF4069P	◆MULB	21-73	H19-5045-2	◆HAS	80-85	IH188CTW	◆INL	78-10	IHS036MDD	◆INL	71-84	IM5003AMDD	◆INL	40-106
◆PHIN	◆RTCF		H19-5045-5	◆HAS	80-86	IH188MDD	◆INL	77-96	IHS036MDE	◆INL	71-85	IM5003AMTC	◆INL	40-107
	◆SIC		H19-5046-2	◆HAS	79-69	IH188MFD	◆INL	77-97	IHS036MPD	◆INL	71-86	IM5003CDD	◆INL	40-108
HEF4093P	◆MULB	104-30	H19-5046-5	◆HAS	79-70	IH189MTW	◆INL	78-80	IHS036MPE	◆INL	71-87	IM5003CPD	◆INL	40-109
◆PHIN	◆SIC		H19-5046A-2	◆HAS	79-63	IH190CFD	◆INL	78-81	IHS037CPA	◆INL	71-11	IM5003CTC	◆INL	40-110
	◆VALG		H19-5046A-5	◆HAS	79-64	IH190CTW	◆INL	78-82	IHS037CPE	◆INL	71-12	IM5003MDD	◆INL	41-1
HEF4104P	◆MULB	69-69	H19-5047-2	◆HAS	80-101	IH190MDE	◆INL	78-71	IHS038CPA	◆INL	71-13	IM5003MPD	◆INL	41-2
◆PHIN	◆SIC		H19-5047-5	◆HAS	80-102	IH190MFD	◆INL	78-72	IHS040BCE	◆INL	71-14	IM5003MTC	◆INL	41-3
HEF4511P	◆MULB	51-20	H19-5047A-2	◆HAS	80-97	IH190MDE	◆INL	78-96	IHS040BCPE	◆INL	79-75	IM5011CDD	◆INL	39-32
◆PHIN	◆SIC		H19-5047A-5	◆HAS	80-98	IH191CFD	◆INL	78-97	IHS040BCPE	◆INL	79-76	IM5011MDD	◆INL	39-33
	◆VALG		H19-5048-2	◆HAS	80-9	IH191MDE	◆INL	78-7	IHS040BMDE	◆INL	79-77	IM5011NDD	◆INL	39-34
HEF4514P	◆MULB	91-49	H19-5048-5	◆HAS	80-9	IH191MFD	◆INL	78-8	IHS040BMFD	◆INL	79-78	IM5013ACDD	◆INL	40-42
◆PHIN	◆SIC													

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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	
ITT514-5N	ITT	48-19	ITT75454-5T	ITT	43-19	JANM38510/00105CCA	ITT	25-9	JANM38510/00301CDB	ITT	30-22	JANM38510/00801CAB	ITT	28-38	
ITT546A-5N	ITT	48-10	ITT75460J	ITT	44-22	ITT	ITT		JANM38510/00301CDC	ITT	30-23	JANM38510/00801CAC	ITT	28-39	
ITT548-5N	ITT	48-33	ITT75461-5T	ITT	43-83	JANM38510/00105CCB	none		JANM38510/00302ACA	NSC	32-41	JANM38510/00801CBB	ITT	28-40	
ITT558-5N	ITT	48-34	ITT75464-5T	ITT	43-86	FSC	NSC		JANM38510/00302ACB	NSC	32-42	JANM38510/00801CCB	ITT	28-41	
ITT1488-1J	ITT	39-40	JSFC404	THCF	24-71	JANM38510/00105CCC	SIC	TII	JANM38510/00302ACC	NSC	32-43	JANM38510/00801CCA	ITT	28-42	
ITT1488-5J	ITT	39-41		THCF		ITT	SIC		JANM38510/00302AAC	NSC	32-44	JANM38510/00801CCB	ITT	28-43	
ITT1489-1J	ITT	95-109	LD110CJ	INL	106-75	JANM38510/00105CDB	SIC	TII	JANM38510/00302ABA	ITT	32-45	JANM38510/00801CCC	ITT	28-44	
ITT1489-5J	ITT	95-110	LD110CJΔ	SIX	106-76	ITT	MOTA		JANM38510/00302BAB	ITT	32-46	JANM38510/00801CDB	ITT	28-45	
ITT1489A-1J	ITT	96-26	LD110CP	INL	106-77	JANM38510/00108BAA	ITT	MOTA	JANM38510/00302BAC	NSC	32-47	JANM38510/00801CDB	ITT	28-46	
ITT1489A-5J	ITT	96-27	LD111ACJ	SIX	106-78	ITT	NSC		JANM38510/00302BAB	ITT	32-48	JANM38510/00801CDB	ITT	28-47	
ITT5404J	ITT	25-38	LD111CJ	INL	106-79	JANM38510/00108BAB	ITT	MOTA	JANM38510/00302BAC	NSC	32-49	JANM38510/00801CDB	ITT	28-48	
ITT5405J	ITT	25-39	LD111CJΔ	SIX	106-80	ITT	NSC		JANM38510/00302BAB	ITT	32-50	JANM38510/00801CDB	ITT	28-49	
ITT5406J	ITT	28-27	LD111CP	INL	106-81	JANM38510/00108BAB	ITT	MOTA	JANM38510/00302BAC	NSC	32-51	JANM38510/00801CDB	ITT	28-50	
ITT5407J	ITT	35-59	LD114CR	INL	106-82	ITT	NSC		JANM38510/00302BAC	ITT	32-52	JANM38510/00801CDB	ITT	28-51	
ITT5413J	ITT	103-39	LD114CRΔ	SIX	106-83	JANM38510/00108BAC	ITT	MOTA	JANM38510/00302BAC	NSC	32-53	JANM38510/00801CDB	ITT	28-52	
ITT5416J	ITT	27-81	LD120CJ	SIX	106-84	ITT	NSC		JANM38510/00302BAC	ITT	32-54	JANM38510/00801CDB	ITT	28-53	
ITT5417J	ITT	35-48	LD121CJ	SIX	106-85	FSC	ITT		JANM38510/00302BAC	NSC	32-55	JANM38510/00801CDB	ITT	28-54	
ITT5437J	ITT	32-25	LD130BP	SIX	106-86	MOTA	NSC		JANM38510/00302BAC	ITT	32-56	JANM38510/00801CDB	ITT	28-55	
ITT5520J	ITT	99-24	LD130CJ	SIX	106-87	JANM38510/00108BBB	ITT	MOTA	JANM38510/00302BAC	NSC	32-57	JANM38510/00801CDB	ITT	28-56	
ITT5520N	ITT	99-25	LD131CJ	SIX	106-88	ITT	NSC		JANM38510/00302BAC	ITT	32-58	JANM38510/00801CDB	ITT	28-57	
ITT5521J	ITT	99-16	LF198H	NSC	102-99	JANM38510/00108BCA	ITT	MOTA	JANM38510/00302BAC	NSC	32-59	JANM38510/00801CDB	ITT	28-58	
ITT5521N	ITT	99-17	LF298H	NSC	102-100	ITT	NSC		JANM38510/00302BAC	ITT	32-60	JANM38510/00801CDB	ITT	28-59	
ITT5522J	ITT	99-26	LF398H	NSC	102-101	ITT	SIC		JANM38510/00302BAC	NSC	32-61	JANM38510/00801CDB	ITT	28-60	
ITT5522N	ITT	99-27	LF11201D	NSC	80-14	JANM38510/00108BCB	ITT	SIC	JANM38510/00302BAC	NSC	32-62	JANM38510/00801CDB	ITT	28-61	
ITT5523J	ITT	99-18	LF11201D	NSC	72-82	FSC	ITT		JANM38510/00302BAC	NSC	32-63	JANM38510/00801CDB	ITT	28-62	
ITT5523N	ITT	99-19	LF11331D	NSC	72-83	MOTA	NSC		JANM38510/00302BAC	ITT	32-64	JANM38510/00801CDB	ITT	28-63	
ITT5524J	ITT	100-35	LF11332D	NSC	80-15	SIC	TII		JANM38510/00302BAC	NSC	32-65	JANM38510/00801CDB	ITT	28-64	
ITT5524N	ITT	100-36	LF11333D	NSC	77-15	JANM38510/00108BCC	ITT	NSC	JANM38510/00302BAC	NSC	32-66	JANM38510/00801CDB	ITT	28-65	
ITT5525J	ITT	99-107	LF12201D	NSC	80-16	ITT	NSC		JANM38510/00302BAC	NSC	32-67	JANM38510/00801CDB	ITT	28-66	
ITT5525N	ITT	99-108	LF12201N	NSC	80-17	JANM38510/00108BDA	ITT	MOTA	JANM38510/00302BAC	NSC	32-68	JANM38510/00801CDB	ITT	28-67	
ITT5528J	ITT	100-37	LF12202D	NSC	72-86	SIC	TII		JANM38510/00302BAC	NSC	32-69	JANM38510/00801CDB	ITT	28-68	
ITT5528N	ITT	100-38	LF12202N	NSC	72-87	JANM38510/00108BDB	ITT	MOTA	JANM38510/00302BAC	NSC	32-70	JANM38510/00801CDB	ITT	28-69	
ITT5529J	ITT	99-109	LF12331D	NSC	72-88	SIC	TII		JANM38510/00302BAC	NSC	32-71	JANM38510/00801CDB	ITT	28-70	
ITT5529N	ITT	99-110	LF12331N	NSC	72-89	JANM38510/00108CAA	ITT	NSC	JANM38510/00302BAC	NSC	32-72	JANM38510/00801CDB	ITT	28-71	
ITT7140	ITT	94-70	LF12332D	NSC	80-18	ITT	MOTA		JANM38510/00302BAC	NSC	32-73	JANM38510/00801CDB	ITT	28-72	
ITT7141	ITT	37-50	LF12332N	NSC	80-19	ITT	NSC		JANM38510/00302BAC	NSC	32-74	JANM38510/00801CDB	ITT	28-73	
ITT7160	ITT	46-2	LF12333D	NSC	77-16	JANM38510/00108CAB	ITT	MOTA	JANM38510/00302BAC	NSC	32-75	JANM38510/00801CDB	ITT	28-74	
ITT7160A	ITT	46-1	LF12333N	NSC	77-17	FSC	ITT		JANM38510/00302BAC	NSC	32-76	JANM38510/00801CDB	ITT	28-75	
ITT7161	ITT	45-106	LF13201D	NSC	80-20	ITT	MOTA		JANM38510/00302BAC	NSC	32-77	JANM38510/00801CDB	ITT	28-76	
ITT7162	ITT	45-107	LF13201N	NSC	80-21	JANM38510/00108CAC	ITT	SIC	JANM38510/00302BAC	NSC	32-78	JANM38510/00801CDB	ITT	28-77	
ITT7404J	ITT	25-40	LF13202D	NSC	72-90	FSC	MOTA		JANM38510/00302BAC	NSC	32-79	JANM38510/00801CDB	ITT	28-78	
ITT7404N	ITT	25-41	LF13202N	NSC	72-91	ITT	NSC		JANM38510/00302BAC	NSC	32-80	JANM38510/00801CDB	ITT	28-79	
ITT7405J	ITT	25-42	LF13331D	NSC	72-92	JANM38510/00108CBB	ITT	MOTA	JANM38510/00302BAC	NSC	32-81	JANM38510/00801CDB	ITT	28-80	
ITT7405N	ITT	25-43	LF13331N	NSC	72-93	ITT	NSC		JANM38510/00302BAC	NSC	32-82	JANM38510/00801CDB	ITT	28-81	
ITT7406J	ITT	28-73	LF13332D	NSC	80-22	JANM38510/00108CCA	ITT	MOTA	JANM38510/00302BAC	NSC	32-83	JANM38510/00801CDB	ITT	28-82	
ITT7406N	ITT	28-74	LF13332N	NSC	80-23	ITT	NSC		JANM38510/00302BAC	NSC	32-84	JANM38510/00801CDB	ITT	28-83	
ITT7407J	ITT	36-16	LF13333D	NSC	77-18	ITT	SIC		JANM38510/00302BAC	NSC	32-85	JANM38510/00801CDB	ITT	28-84	
ITT7407N	ITT	36-17	LF13333N	NSC	77-19	JANM38510/00108CCB	ITT	NSC	JANM38510/00302BAC	NSC	32-86	JANM38510/00801CDB	ITT	28-85	
ITT7413J	ITT	103-40	LH0023CG	NSC	102-87	FSC	ITT		JANM38510/00302BAC	NSC	32-87	JANM38510/00801CDB	ITT	28-86	
ITT7413N	ITT	103-41	LH0023G	NSC	102-88	MOTA	NSC		JANM38510/00302BAC	NSC	32-88	JANM38510/00801CDB	ITT	28-87	
ITT7416J	ITT	28-68	LH0043CG	NSC	102-81	SIC	TII		JANM38510/00302BAC	NSC	32-89	JANM38510/00801CDB	ITT	28-88	
ITT7416N	ITT	28-69	LH0043G	NSC	102-82	JANM38510/00108CCC	ITT	NSC	JANM38510/00302BAC	NSC	32-90	JANM38510/00801CDB	ITT	28-89	
ITT7417J	ITT	36-11	LH0053CG	NSC	102-70	ITT	NSC		JANM38510/00302BAC	NSC	32-91	JANM38510/00801CDB	ITT	28-90	
ITT7417N	ITT	36-12	LH0053G	NSC	102-59	JANM38510/00108CDA	ITT	MOTA	JANM38510/00302BAC	NSC	32-92	JANM38510/00801CDB	ITT	28-91	
ITT7437J	ITT	32-26	M002T1	SGAI	40-4	ITT	SIC		JANM38510/00302BAC	NSC	32-93	JANM38510/00801CDB	ITT	28-92	
ITT7437N	ITT	32-27	M004T1	SGAI	51-67	JANM38510/00108CDB	ITT	MOTA	JANM38510/00302BAC	NSC	32-94	JANM38510/00801CDB	ITT	28-93	
ITT7520J	ITT	99-37	M004T2	SGAI	51-68	SIC	TII		JANM38510/00302BAC	NSC	32-95	JANM38510/00801CDB	ITT	28-94	
ITT7520N	ITT	99-38	M005T1	SGAI	75-73	JANM38510/00301ACA	NSC	NSC	JANM38510/00302BAC	NSC	32-96	JANM38510/00801CDB	ITT	28-95	
ITT7521J	ITT	99-20	M5S004P	MITJ	27-67	NSC	NSC		JANM38510/00302BAC	NSC	32-97	JANM38510/00801CDB	ITT	28-96	
ITT7521N	ITT	99-21	M5S005P	MITJ	27-68	JANM38510/00301ACB	NSC	NSC	JANM38510/00302BAC	NSC	32-98	JANM38510/00801CDB	ITT	28-97	
ITT7522J	ITT	99-39	M5S040P	MITJ	31-18	NSC	NSC		JANM38510/00302BAC	NSC	32-99	JANM38510/00801CDB	ITT	28-98	
ITT7522N	ITT	99-40	M5S151P	MITJ	85-61	JANM38510/00301ACC	NSC	NSC	JANM38510/00302BAC	NSC	32-100	JANM38510/00801CDB	ITT	28-99	
ITT7523J	ITT	99-22	M5S157P	MITJ	89-103	NSC	NSC		JANM38510/00302BAC	NSC	32-101	JANM38510/00801CDB	ITT	29-00	
ITT7523N	ITT	99-23	M5S158P	MITJ	89-104	JANM38510/00301BAA	NSC	NSC	JANM38510/00302BAC	NSC	32-102	JANM38510/00801CDB	ITT	29-01	
ITT7524J	ITT	100-83	M5S251P	MITJ	85-62	ITT	MOTA		JANM38510/00302BAC	NSC	32-103	JANM38510/00801CDB	ITT	29-02	
ITT7524N	ITT	100-84	M5S257P	MITJ	89-105	JANM38510/00301BAB	NSC	NSC	JANM38510/00302BAC	NSC	32-104	JANM38510/00801CDB	ITT	29-03	
ITT7525J	ITT	100-1	M5S258P	MITJ	89-106	FSC	ITT		JANM38510/00302BAC	NSC	32-105	JANM38510/00801CDB	ITT	29-04	
ITT7525N	ITT	100-2	M009T1	SGAI	74-108	ITT	MOTA		JANM38510/00302BAC	NSC	32-106	JANM38510/00801CDB	ITT	29-05	
ITT7528J	ITT	100-85	M1024B5	SGAI	105-93	JANM38510/00301BAC	NSC	NSC	JANM38510/00302BAC	NSC	32-107	JANM38510/00801CDB	ITT	29-06	
ITT7528N	ITT	100-86	M1025B5	SGAI	105-94	FSC	ITT		JANM38510/00302BAC</						

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JANM38510/00804BCC	ITT	28-10	JANM38510/01402BFA	MOTA	84-86	JANM38510/02005CAA	NSC	21-66	JANM38510/03003BAA	ITT	24-15	JANM38510/05502CFC	NSC	34-47
JANM38510/00804BDB	ITT	28-11	JANM38510/01402BFB	MOTA	84-87	JANM38510/02005CAC	NSC	21-67	JANM38510/03003BAB	ITT	24-16	JANM38510/05503AEA	RCA	22-15
JANM38510/00804CAA	ITT	28-12	JANM38510/01402BFC	AMV	84-88	JANM38510/02005CCB	NSC	21-68	JANM38510/03003BAC	ITT	24-17	JANM38510/05503AEB	NSC	22-16
JANM38510/00804CAB	FSC	28-13	JANM38510/01402CEA	MOTA	84-89	JANM38510/02005CDA	NSC	21-69	JANM38510/03003BBB	ITT	24-18	JANM38510/05503AEC	NSC	22-17
JANM38510/00804CAC	ITT	28-14	JANM38510/01402CEB	MOTA	84-90	JANM38510/02005CDB	NSC	21-70	JANM38510/03003BCA	ITT	24-19	JANM38510/05503AFA	none	22-18
JANM38510/00804CBB	ITT	28-15	JANM38510/01402CEC	AMV	84-91	JANM38510/02305BAA	MOTA	26-56	JANM38510/03003BCB	ITT	24-20	JANM38510/05503BEA	RCA	22-19
JANM38510/00804CCA	ITT	28-16	JANM38510/01402CFB	MOTA	84-92	JANM38510/02305BAB	FSC	26-57	JANM38510/03003BCC	ITT	24-21	JANM38510/05503BEB	NSC	22-20
JANM38510/00804CCB	ITT	28-17	JANM38510/01402CFB	MOTA	84-93	JANM38510/02305BAC	MOTA	26-58	JANM38510/03003CAA	ITT	24-22	JANM38510/05503BEC	NSC	22-21
JANM38510/00804CCC	ITT	28-18	JANM38510/01402CFC	AMV	84-94	JANM38510/02305BAC	FSC	26-58	JANM38510/03003CAB	ITT	24-23	JANM38510/05503BFA	NSC	22-22
JANM38510/00804CDB	ITT	28-19	JANM38510/01403AEA	NSC	87-3	JANM38510/02305BBB	ITT	26-59	JANM38510/03003CAC	ITT	24-24	JANM38510/05503BFB	NSC	22-23
JANM38510/00805BCA	SIC	32-28	JANM38510/01403AEB	NSC	87-4	JANM38510/02305BCA	ITT	26-60	JANM38510/03003CBB	ITT	24-25	JANM38510/05503BFC	NSC	22-24
JANM38510/00805BCB	SIC	32-29	JANM38510/01403AEC	NSC	87-5	JANM38510/02305BCB	SIC	26-61	JANM38510/03003CCA	ITT	24-26	JANM38510/05503CEA	RCA	22-25
JANM38510/00805CCA	SIC	32-30	JANM38510/01403BEA	MOTA	87-6	JANM38510/02305BCC	FSC	26-62	JANM38510/03003CCB	ITT	24-27	JANM38510/05503CEB	NSC	22-26
JANM38510/00805CCB	SIC	32-31	JANM38510/01403BEB	MOTA	87-7	JANM38510/02305BCC	ITT	26-62	JANM38510/03003CCC	ITT	24-28	JANM38510/05503CEC	NSC	22-27
JANM38510/01004BEA	MOTA	49-67	JANM38510/01403BFA	MOTA	87-9	JANM38510/02305BDA	SIC	26-63	JANM38510/05301ACA	RCA	21-12	JANM38510/05503CFA	NSC	22-28
JANM38510/01004BEB	MOTA	49-68	JANM38510/01403BFB	MOTA	87-10	JANM38510/02305BDB	SIC	26-64	JANM38510/05301ADA	RCA	21-13	JANM38510/05503CFB	NSC	22-29
JANM38510/01004BFA	MOTA	49-69	JANM38510/01403CEA	MOTA	87-11	JANM38510/02305CAA	ITT	26-65	JANM38510/05301BAA	NSC	21-14	JANM38510/05503CFC	NSC	22-30
JANM38510/01004BFB	MOTA	49-70	JANM38510/01403CEB	MOTA	87-12	JANM38510/02305CAB	FSC	26-66	JANM38510/05301BAB	NSC	21-15	JANM38510/05504AEA	RCA	34-48
JANM38510/01004CEA	MOTA	49-71	JANM38510/01403CEC	MOTA	87-13	JANM38510/02305CAC	FSC	26-67	JANM38510/05301BAC	NSC	21-16	JANM38510/05504AEB	NSC	34-49
JANM38510/01004CEB	MOTA	49-72	JANM38510/01403CFA	MOTA	87-14	JANM38510/02305CAC	ITT	26-67	JANM38510/05301BCA	RCA	21-17	JANM38510/05504AEC	NSC	34-50
JANM38510/01004CFA	MOTA	49-73	JANM38510/01403CFB	MOTA	87-15	JANM38510/02305CBB	MOTA	26-68	JANM38510/05301BCB	RCA	21-18	JANM38510/05504AFA	none	34-51
JANM38510/01004CFB	MOTA	49-74	JANM38510/01404BEA	MOTA	87-16	JANM38510/02305CCA	ITT	26-69	JANM38510/05301BCC	NSC	21-19	JANM38510/05504BEA	RCA	34-52
JANM38510/01005BEA	MOTA	49-75	JANM38510/01404BEB	MOTA	87-17	JANM38510/02305CCB	ITT	26-70	JANM38510/05301BDA	RCA	21-20	JANM38510/05504BEB	NSC	34-53
JANM38510/01005BEB	MOTA	49-76	JANM38510/01404BEC	MOTA	87-18	JANM38510/02305CCB	FSC	26-70	JANM38510/05301CAA	NSC	21-21	JANM38510/05504BEC	NSC	34-54
JANM38510/01005BFA	MOTA	49-77	JANM38510/01404BFA	MOTA	87-19	JANM38510/02305CCC	MOTA	26-71	JANM38510/05301CAB	NSC	21-22	JANM38510/05504BFA	NSC	34-55
JANM38510/01005BFB	MOTA	49-78	JANM38510/01404BFA	MOTA	87-19	JANM38510/02305CCC	ITT	26-71	JANM38510/05301CAC	NSC	21-23	JANM38510/05504BFB	NSC	34-56
JANM38510/01005CEA	MOTA	49-79	JANM38510/01404BFB	MOTA	87-20	JANM38510/02305CDA	SIC	26-72	JANM38510/05301CCA	RCA	21-24	JANM38510/05504BFC	NSC	34-57
JANM38510/01005CEB	MOTA	49-80	JANM38510/01404BFB	MOTA	87-20	JANM38510/02305CDB	SIC	26-73	JANM38510/05301CCB	RCA	21-25	JANM38510/05504CEA	RCA	34-58
JANM38510/01005CFA	MOTA	49-81	JANM38510/01404BFC	AMV	87-21	JANM38510/02401BAA	SIC	30-44	JANM38510/05301CCC	NSC	21-26	JANM38510/05504CEB	NSC	34-59
JANM38510/01005CFB	MOTA	49-82	JANM38510/01404CEA	MOTA	87-22	JANM38510/02401BAB	MOTA	30-45	JANM38510/05301CDA	RCA	21-27	JANM38510/05504CEC	NSC	34-60
JANM38510/01008BEA	MOTA	48-101	JANM38510/01404CEB	MOTA	87-23	JANM38510/02401BAC	MOTA	30-46	JANM38510/05501AEA	RCA	22-1	JANM38510/05504CFA	NSC	34-61
JANM38510/01008BEB	MOTA	48-102	JANM38510/01404CEC	MOTA	87-24	JANM38510/02401BCA	MOTA	30-47	JANM38510/05501AFA	none	22-2	JANM38510/05504CFB	NSC	34-62
JANM38510/01008BFA	MOTA	48-103	JANM38510/01404CEC	MOTA	87-24	JANM38510/02401BCB	MOTA	30-48	JANM38510/05501BEA	RCA	22-3	JANM38510/05504CFC	NSC	34-63
JANM38510/01008BFB	MOTA	48-104	JANM38510/01404CFB	MOTA	87-25	JANM38510/02401BDB	TII	30-49	JANM38510/05501BEB	NSC	22-4	JANM38510/07003BCA	SIC	26-74
JANM38510/01008CEA	MOTA	48-105	JANM38510/01404CFC	MOTA	87-26	JANM38510/02401BDB	SIC	30-50	JANM38510/05501BEC	NSC	22-5	JANM38510/07003BCE	SIC	26-75
JANM38510/01008CEB	MOTA	49-1	JANM38510/01404CFC	MOTA	87-27	JANM38510/02401CAA	SIC	30-51	JANM38510/05501BFA	NSC	22-6	JANM38510/07003BDA	SIC	26-76
JANM38510/01008CFA	MOTA	49-2	JANM38510/01405BEA	MOTA	89-4	JANM38510/02401CAB	MOTA	30-52	JANM38510/05501BFB	NSC	22-7	JANM38510/07003BDB	SIC	26-77
JANM38510/01008CFB	MOTA	49-3	JANM38510/01405BEB	MOTA	89-5	JANM38510/02401CAC	MOTA	30-53	JANM38510/05501BFC	NSC	22-8	JANM38510/07003CCA	SIC	26-78
JANM38510/01009BAA	MOTA	49-4	JANM38510/01405BEB	MOTA	89-5	JANM38510/02401CCA	MOTA	30-54	JANM38510/05501CEA	RCA	22-9	JANM38510/07003CCB	SIC	26-79
JANM38510/01009BAB	MOTA	49-5	JANM38510/01405BEC	MOTA	89-6	JANM38510/02401CCB	MOTA	30-55	JANM38510/05501CEB	NSC	22-10	JANM38510/07003CDA	SIC	26-80
JANM38510/01009BCA	MOTA	49-6	JANM38510/01405BFA	MOTA	89-7	JANM38510/02401CCB	MOTA	30-55	JANM38510/05501CEC	NSC	22-11	JANM38510/07003CDB	SIC	26-81
JANM38510/01009BCB	MOTA	49-7	JANM38510/01405BFB	MOTA	89-8	JANM38510/02401CDA	SIC	30-56	JANM38510/05501CFA	NSC	22-12	JANM38510/07003BCA	SIC	26-82
JANM38510/01009CAA	MOTA	49-8	JANM38510/01405BFB	MOTA	89-8	JANM38510/02401CDB	SIC	30-57	JANM38510/05501CFB	NSC	22-13	JANM38510/07004BCB	SIC	27-1
JANM38510/01009CAB	MOTA	49-9	JANM38510/01405BFC	AMV	89-9	JANM38510/03002BAA	ITT	24-1	JANM38510/05501CFB	NSC	22-13	JANM38510/07004BCB	SIC	27-1
JANM38510/01009CBA	MOTA	49-10	JANM38510/01405CFA	MOTA	89-10	JANM38510/03002BAB	ITT	24-2	JANM38510/05501CFC	NSC	22-14	JANM38510/07004BDA	SIC	27-2
JANM38510/01009CCB	MOTA	49-11	JANM38510/01405CFB	MOTA	89-11	JANM38510/03002BAC	ITT	24-3	JANM38510/05502AEA	RCA	34-34	JANM38510/07004BDB	SIC	27-3
JANM38510/01401BEB	SIC	85-109	JANM38510/01405CFB	MOTA	89-12	JANM38510/03002BAC	ITT	24-3	JANM38510/05502AFA	none	34-35	JANM38510/07004CCA	SIC	27-4
JANM38510/01401BJC	none	85-110	JANM38510/01405CFA	MOTA	89-13	JANM38510/03002BBB	ITT	24-4	JANM38510/05502BEA	RCA	34-36	JANM38510/07004CCB	SIC	27-5
JANM38510/01401BLB	none	86-1	JANM38510/01405CFB	MOTA	89-14	JANM38510/03002BCA	ITT	24-5	JANM38510/05502BEB	NSC	34-37	JANM38510/07004CDA	SIC	27-6
JANM38510/01401CJB	SIC	86-2	JANM38510/01405CFB	MOTA	89-14	JANM38510/03002BCB	ITT	24-6	JANM38510/05502BEC	NSC	34-38	JANM38510/07004CDB	SIC	27-7
JANM38510/01401CJC	none	86-3	JANM38510/01405CFC	AMV	89-15	JANM38510/03002BCC	ITT	24-7	JANM38510/05502BFA	NSC	34-39	JANM38510/07201BCA	SIC	30-58
JANM38510/01401CLB	none	86-4	JANM38510/02005BAA	NSC	21-61	JANM38510/03002CAA	ITT	24-8	JANM38510/05502BFB	NSC	34-40	JANM38510/07201BCB	SIC	30-59
JANM38510/01402BEA	ITT	84-83	JANM38510/02005BAA	NSC	21-61	JANM38510/03002CAB	ITT	24-9	JANM38510/05502BFC	NSC	34-41	JANM38510/07201BDA	SIC	30-60
JANM38510/01402BEB	ITT	84-84	JANM38510/02005BAC	NSC	21-62	JANM38510/03002CAC	ITT	24-10	JANM38510/05502CEA	RCA	34-42	JANM38510/07201BDB	SIC	30-61
JANM38510/01402BEC	AMV	84-85	JANM38510/02005BAC	NSC	21-62	JANM38510/03002CBB	ITT	24-11	JANM38510/05502CEB	NSC	34-43	JANM38510/07201CCA	SIC	30-62
			JANM38510/02005BCC	NSC	21-63	JANM38510/03002CCA	ITT	24-12	JANM38510/05502CEC	NSC	34-44	JANM38510/07201CCB	SIC	30-63
			JANM38510/02005BDA	NSC	21-64	JANM38510/03002CCB	ITT	24-13	JANM38510/05502CFA	NSC	34-45	JANM38510/07201CDA	SIC	30-64
			JANM38510/02005BDB	NSC	21-65	JANM38510/03002CCC	ITT	24-14	JANM38510/05502CFB	NSC	34-46	JANM38510/07201CDB	SIC	30-65

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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
JANM38510/07901BEA	SIC	85-63	JANM38510/10403CFC	FSC	37-49	JANM38510/30003BCA	MOTA	22-66	JANM38510/30202BAB	NSC	31-48	M54604P	MITJ	43-24
JANM38510/07901BEB	SIC	85-64	JANM38510/10404BEA	FSC	93-51	JANM38510/30003BCB	NSC	22-66	JANM38510/30202BAC	NSC	31-49	M54605P	MITJ	43-25
JANM38510/07901BFA	SIC	85-65	JANM38510/10404BEB	FSC	93-52	JANM38510/30003BCC	NSC	22-67	JANM38510/30202BACA	NSC	31-49	M54654P	MITJ	39-1
JANM38510/07901BFB	SIC	85-66	JANM38510/10404BEC	none	93-53	JANM38510/30003BCD	NSC	22-68	JANM38510/30202BACB	NSC	31-50	MADC-8-1	DDC	56-4
JANM38510/07901CEA	SIC	85-67	JANM38510/10404BFA	FSC	93-54	JANM38510/30003BDA	NSC	22-69	JANM38510/30202BACB	NSC	31-51	MADC-9-1	DDC	56-3
JANM38510/07901CEB	SIC	85-68	JANM38510/10404BFB	FSC	93-55	JANM38510/30003BDB	NSC	22-70	JANM38510/30202BACB	NSC	31-52	MADC-10-1	DDC	55-105
JANM38510/07901CFA	SIC	85-69	JANM38510/10404BFC	FSC	93-56	JANM38510/30003BDC	NSC	22-71	JANM38510/30202BADA	NSC	31-52	MADC-10-3	DDC	55-106
JANM38510/07901CFB	SIC	85-70	JANM38510/10404BFA	FSC	93-57	JANM38510/30003BDD	NSC	22-72	JANM38510/30202BADA	NSC	31-53	MADC-11-1	DDC	55-101
JANM38510/07902BEA	SIC	87-64	JANM38510/10404BFB	FSC	93-58	JANM38510/30003BDE	NSC	22-73	JANM38510/30202BADA	NSC	31-53	MADC-11-3	DDC	55-102
JANM38510/07902BEB	SIC	87-65	JANM38510/10404BFC	FSC	93-59	JANM38510/30003BDF	NSC	22-74	JANM38510/30202BADA	NSC	31-54	MB418	FCAJ	21-55
JANM38510/07902BFA	SIC	87-66	JANM38510/10404BFC	FSC	93-60	JANM38510/30003BDE	NSC	22-75	JANM38510/30202BADA	NSC	31-54	MB418M	FCAJ	21-56
JANM38510/07902BFB	SIC	87-67	JANM38510/10404BFC	FSC	93-61	JANM38510/30003BDE	NSC	22-76	JANM38510/30202BADA	NSC	31-54	MB424	FCAJ	97-27
JANM38510/07902CEA	SIC	87-68	JANM38510/10404BFC	FSC	93-62	JANM38510/30003BDE	NSC	22-77	JANM38510/30202BADA	NSC	31-54	MB424M	FCAJ	97-28
JANM38510/07902CEB	SIC	87-69	JANM38510/10404BFC	FSC	93-63	JANM38510/30003BDE	NSC	22-78	JANM38510/30202BADA	NSC	31-54	MB425	FCAJ	39-23
JANM38510/07902CFA	SIC	87-70	JANM38510/10404BFC	FSC	93-64	JANM38510/30003BDE	NSC	22-79	JANM38510/30202BADA	NSC	31-55	MB425M	FCAJ	39-24
JANM38510/07902CFB	SIC	87-71	JANM38510/10404BFC	FSC	93-65	JANM38510/30003BDE	NSC	22-80	JANM38510/30202BADA	NSC	31-55	MB426	FCAJ	39-25
JANM38510/07903BEA	SIC	89-107	JANM38510/15102BAA	MOTA	104-8	JANM38510/30003BDE	NSC	22-81	JANM38510/30202BADA	NSC	31-56	MB426M	FCAJ	39-26
JANM38510/07903BEB	SIC	89-108	JANM38510/15102BAB	MOTA	104-9	JANM38510/30003BDE	NSC	22-82	JANM38510/30202BADA	NSC	31-56	MB427	FCAJ	37-6
JANM38510/07903BFB	SIC	89-109	JANM38510/15102BAC	MOTA	104-10	JANM38510/30003BDE	NSC	22-83	JANM38510/30202BADA	NSC	31-57	MB427M	FCAJ	37-7
JANM38510/07903BFA	SIC	89-110	JANM38510/15102BAC	MOTA	104-11	JANM38510/30003BDE	NSC	22-84	JANM38510/30202BADA	NSC	31-58	MB428	FCAJ	93-7
JANM38510/07903BFB	SIC	89-110	JANM38510/15102BAC	MOTA	104-12	JANM38510/30003BDE	NSC	22-85	JANM38510/30202BADA	NSC	31-58	MB428M	FCAJ	93-8
JANM38510/07903CEA	SIC	90-1	JANM38510/15102BAC	MOTA	104-13	JANM38510/30003BDE	NSC	22-86	JANM38510/30202BADA	NSC	31-59	MB429	FCAJ	93-9
JANM38510/07903CEB	SIC	90-2	JANM38510/15102BAC	MOTA	104-14	JANM38510/30003BDE	NSC	22-87	JANM38510/30202BADA	NSC	31-59	MB429M	FCAJ	93-10
JANM38510/07903CFA	SIC	90-3	JANM38510/15102BAC	MOTA	104-15	JANM38510/30003BDE	NSC	22-88	JANM38510/30202BADA	NSC	31-60	MB432	FCAJ	38-70
JANM38510/07903CFB	SIC	90-4	JANM38510/15102BAC	MOTA	104-16	JANM38510/30003BDE	NSC	22-89	JANM38510/30202BADA	NSC	31-60	MB432M	FCAJ	38-71
JANM38510/08101BCA	SIC	37-51	JANM38510/15102BAC	MOTA	104-17	JANM38510/30003BDE	NSC	22-90	JANM38510/30202BADA	NSC	31-60	MB437	FCAJ	39-4
JANM38510/08101BCB	SIC	37-52	JANM38510/15102BAC	MOTA	104-18	JANM38510/30003BDE	NSC	22-91	JANM38510/30202BADA	NSC	31-61	MB437M	FCAJ	39-5
JANM38510/08101BDA	SIC	37-53	JANM38510/15102BAC	MOTA	104-19	JANM38510/30003BDE	NSC	22-92	JANM38510/30202BADA	NSC	31-61	MB438	FCAJ	95-60
JANM38510/08101BDB	SIC	37-54	JANM38510/15102BAC	MOTA	104-20	JANM38510/30003BDE	NSC	22-93	JANM38510/30202BADA	NSC	31-61	MB438M	FCAJ	95-61
JANM38510/08101CCA	SIC	37-55	JANM38510/15102BAC	MOTA	104-21	JANM38510/30003BDE	NSC	22-94	JANM38510/30202BADA	NSC	31-62	MB439	FCAJ	42-36
JANM38510/08101CCB	SIC	37-56	JANM38510/15102BAC	MOTA	104-22	JANM38510/30003BDE	NSC	22-95	JANM38510/30202BADA	NSC	31-62	MB439M	FCAJ	42-37
JANM38510/08101CDA	SIC	37-57	JANM38510/15102BAC	MOTA	104-23	JANM38510/30003BDE	NSC	22-96	JANM38510/30202BADA	NSC	31-63	MB444	FCAJ	91-1
JANM38510/08101CDB	SIC	37-58	JANM38510/15102BAC	MOTA	104-24	JANM38510/30003BDE	NSC	22-97	JANM38510/30202BADA	NSC	31-63	MB444M	FCAJ	91-2
JANM38510/10401BAA	FSC	94-18	JANM38510/15102BAC	MOTA	104-25	JANM38510/30003BDE	NSC	22-98	JANM38510/30202BADA	NSC	31-64	MB445	FCAJ	84-1
JANM38510/10401BAB	FSC	94-19	JANM38510/15102BAC	MOTA	104-26	JANM38510/30003BDE	NSC	22-99	JANM38510/30202BADA	NSC	31-64	MB445M	FCAJ	84-2
JANM38510/10401BAC	FSC	94-20	JANM38510/15102BAC	MOTA	104-27	JANM38510/30003BDE	NSC	23-00	JANM38510/30202BADA	NSC	31-65	MB446	FCAJ	86-33
JANM38510/10401BCA	FSC	94-21	JANM38510/15102BAC	MOTA	104-28	JANM38510/30003BDE	NSC	23-01	JANM38510/30202BADA	NSC	31-65	MB446M	FCAJ	86-34
JANM38510/10401BCB	FSC	94-22	JANM38510/15102BAC	MOTA	104-29	JANM38510/30003BDE	NSC	23-02	JANM38510/30202BADA	NSC	31-66	MB10115	FCAJ	95-92
JANM38510/10401CAA	FSC	94-23	JANM38510/15102BAC	MOTA	104-30	JANM38510/30003BDE	NSC	23-03	JANM38510/30202BADA	NSC	31-66	MB10116	FCAJ	39-6
JANM38510/10401CAB	FSC	94-24	JANM38510/15102BAC	MOTA	104-31	JANM38510/30003BDE	NSC	23-04	JANM38510/30202BADA	NSC	31-67	MB10116M	FCAJ	39-7
JANM38510/10401CAC	FSC	94-25	JANM38510/15102BAC	MOTA	104-32	JANM38510/30003BDE	NSC	23-05	JANM38510/30202BADA	NSC	31-68	MB10124	FCAJ	69-79
JANM38510/10401CCA	FSC	94-26	JANM38510/15102BAC	MOTA	104-33	JANM38510/30003BDE	NSC	23-06	JANM38510/30202BADA	NSC	31-68	MB10124M	FCAJ	69-80
JANM38510/10401CCB	FSC	94-27	JANM38510/15102BAC	MOTA	104-34	JANM38510/30003BDE	NSC	23-07	JANM38510/30202BADA	NSC	31-69	MB10125	FCAJ	69-42
JANM38510/10402BCA	FSC	94-28	JANM38510/15102BAC	MOTA	104-35	JANM38510/30003BDE	NSC	23-08	JANM38510/30202BADA	NSC	31-69	MB10125M	FCAJ	69-43
JANM38510/10402BCB	FSC	94-29	JANM38510/15102BAC	MOTA	104-36	JANM38510/30003BDE	NSC	23-09	JANM38510/30202BADA	NSC	31-70	MB10164	FCAJ	84-3
JANM38510/10402CCA	FSC	94-30	JANM38510/15102BAC	MOTA	104-37	JANM38510/30003BDE	NSC	23-10	JANM38510/30202BADA	NSC	31-70	MB10164M	FCAJ	84-4
JANM38510/10402CCB	FSC	94-31	JANM38510/15102BAC	MOTA	104-38	JANM38510/30003BDE	NSC	23-11	JANM38510/30202BADA	NSC	31-70	MB10174	FCAJ	86-35
JANM38510/10403BEA	FSC	37-38	JANM38510/15102BAC	MOTA	104-39	JANM38510/30003BDE	NSC	23-12	JANM38510/30202BADA	NSC	31-71	MB10174M	FCAJ	86-36
JANM38510/10403BEB	FSC	37-39	JANM38510/15102BAC	MOTA	104-40	JANM38510/30003BDE	NSC	23-13	JANM38510/30202BADA	NSC	31-71	MB84016	FCAJ	72-24
JANM38510/10403BEC	none	37-40	JANM38510/15102BAC	MOTA	104-41	JANM38510/30003BDE	NSC	23-14	JANM38510/30202BADA	NSC	31-71	MB84016M	FCAJ	72-25
JANM38510/10403BFA	FSC	37-41	JANM38510/15102BAC	MOTA	104-42	JANM38510/30003BDE	NSC	23-15	JANM38510/30202BADA	NSC	31-72	MB84049	FCAJ	21-57
JANM38510/10403BFB	FSC	37-42	JANM38510/15102BAC	MOTA	104-43	JANM38510/30003BDE	NSC	23-16	JANM38510/30202BADA	NSC	31-72	MB84049M	FCAJ	21-58
JANM38510/10403BFC	FSC	37-43	JANM38510/15102BAC	MOTA	104-44	JANM38510/30003BDE	NSC	23-17	JANM38510/30202BADA	NSC	31-73	MB84050	FCAJ	34-31
JANM38510/10403CEA	FSC	37-44	JANM38510/15102BAC	MOTA	104-45	JANM38510/30003BDE	NSC	23-18	JANM38510/30202BADA	NSC	31-73	MB84050M	FCAJ	34-32
JANM38510/10403CEB	FSC	37-45	JANM38510/15102BAC	MOTA	104-46	JANM38510/30003BDE	NSC	23-19	JANM38510/30202BADA	NSC	31-74	MB84051	FCAJ	82-6
JANM38510/10403CEC	none	37-46	JANM38510/15102BAC	MOTA	104-47	JANM38510/30003BDE	NSC	23-20	JANM38510/30202BADA	NSC	31-74	MB84051M	FCAJ	82-7
JANM38510/10403CFA	FSC	37-47	JANM38510/15102BAC	MOTA	104-48	JANM38510/30003BDE	NSC	23-21	JANM38510/30202BADA	NSC	31-75	MB84052	FCAJ	82-108
JANM38510/10403CFB	FSC	37-48	JANM38510/15102BAC	MOTA	104-49	JANM38510/30003BDE	NSC	23-22	JANM38510/30202BADA	NSC	31-75	MB84052M	FCAJ	82-109

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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
MC691L,P%	MOTA	68-61	MC1650F	MOTA	106-93	MC7539L	MOTA	100-17	MC14511BCP	MOTA	51-15	MDA-11MF	ANA	63-55
MC696L	MOTA	97-14	MC1650L	MOTA	106-94	MC7539P	MOTA	100-18	MC14512AL	MOTA	84-12	MDA-12QD	ANA	64-83
MC696P	MOTA	97-15	MC1651F	MOTA	106-95	MC8266L	MOTA	89-22	MC14512CL	MOTA	84-10	MDAS-8D	DTL	105-70
MC697	MOTA	24-66	MC1651L	MOTA	106-96	MC8267L	MOTA	89-23	MC14512CP	MOTA	84-11	MDAS-16	DTL	105-71
MC789AP	MOTA	22-32	MC1692F	MOTA	95-39	MC8309L	MOTA	86-103	MC14513BAL	MOTA	51-10	MDAS-PG8D	DTL	105-72
MC789P	MOTA	22-31	MC1692L	MOTA	95-40	MC8309P	MOTA	86-104	MC14513BCL	MOTA	51-11	MDAS-PG16D	DTL	105-73
MC799P	MOTA	21-9	MC1820L	MOTA	23-66	MC8312L	MOTA	84-67	MC14513BCP	MOTA	51-12	MDXP-32	DTL	105-74
MC834F	MOTA	24-41	MC1820P	MOTA	23-67	MC8312P	MOTA	84-68	MC14519BAL	MOTA	88-7	MDXP-32-1	DTL	105-75
MC834L	MOTA	24-42	MC2016F	MOTA	24-56	MC8318L	MOTA	105-6	MC14519BCL	MOTA	87-110	MEM780D	GIC	75-15
MC834P	MOTA	24-43	MC2016L,P%	MOTA	24-57	MC8318P	MOTA	105-7	MC14519BCP	MOTA	88-1	MEM780F	GIC	75-16
MC835F	MOTA	24-44	MC2065F	MOTA	39-35	MC8322F	MOTA	89-24	MC14529BAL	MOTA	83-1	MEM780P	GIC	75-17
MC835L	MOTA	24-45	MC2065L,P%	MOTA	39-36	MC8322L	MOTA	89-25	MC14529BCL	MOTA	83-2	MEM851D	GIC	74-105
MC835P	MOTA	24-46	MC2066F	MOTA	24-58	MC8322P	MOTA	89-26	MC14529BCP	MOTA	83-3	MEM851F	GIC	74-106
MC836F	MOTA	24-47	MC2066L,P%	MOTA	24-59	MC8507L	MOTA	105-97	MC14539BAL	MOTA	86-44	MEM851P	GIC	74-107
MC836L	MOTA	24-48	MC2116F	MOTA	24-60	MC8507P	MOTA	105-98	MC14539BCL	MOTA	86-42	MEM853D	GIC	75-66
MC836P	MOTA	24-49	MC2116L	MOTA	24-61	MC9309L	MOTA	86-102	MC14539BCP	MOTA	86-43	MEM853F	GIC	75-67
MC837F	MOTA	23-70	MC2165F	MOTA	39-37	MC9312L	MOTA	84-66	MC14543BAL	MOTA	51-7	MEM853P	GIC	75-68
MC837L	MOTA	23-71	MC2165L	MOTA	39-38	MC9318L	MOTA	105-8	MC14543BCL	MOTA	51-8	MEM855D	GIC	76-95
MC837P	MOTA	23-72	MC2166F	MOTA	24-62	MC9322F	MOTA	89-27	MC14543BCP	MOTA	51-9	MEM855F	GIC	76-96
MC840F	MOTA	24-50	MC2166L	MOTA	24-63	MC9322L	MOTA	89-28	MC14555BAL	MOTA	91-88	MEM855P	GIC	76-97
MC840L	MOTA	24-51	MC3008F	MOTA	27-8	MC10114L	MOTA	95-3	MC14555BCL	MOTA	91-84	MEM856D	GIC	77-4
MC840P	MOTA	24-52	MC3008L	MOTA	27-9	MC10114P	MOTA	95-4	MC14555BCP	MOTA	91-85	MEM856F	GIC	77-5
MC841F	MOTA	24-53	MC3008P	MOTA	27-10	MC10115L	MOTA	95-41	MC14556BAL	MOTA	91-89	MEM856P	GIC	77-6
MC841L	MOTA	24-54	MC3108F	MOTA	27-11	MC10115P	MOTA	95-42	MC14556BCL	MOTA	91-86	MH0007CH	NSC	40-5
MC841P	MOTA	24-55	MC3108L	MOTA	27-12	MC10116L	MOTA	95-5	MC14556BCP	MOTA	91-87	MH0007H	NSC	40-6
MC843G	MOTA	21-5	MC3408L	MOTA	61-51	MC10116P	MOTA	95-6	MC14558BAL	MOTA	51-58	MH0009CG	NSC	40-51
MC889AP	MOTA	22-33	MC3410CL	MOTA	63-12	MC10123L	MOTA	39-8	MC14558BCL	MOTA	51-59	MH0009G	NSC	40-52
MC889P	MOTA	22-34	MC3410CP	MOTA	63-13	MC10124L	MOTA	69-81	MC14558BCP	MOTA	51-60	MH0012CG	NSC	40-2
MC899P	MOTA	21-10	MC3410L	MOTA	62-70	MC10124P	MOTA	69-82	MC14583BAL	MOTA	104-27	MH0012G	NSC	40-3
MC934F	MOTA	24-31	MC3437P	MOTA	96-36	MC10125P	MOTA	69-44	MC14583BCL	MOTA	104-28	MH0013CG	NSC	40-23
MC934L	MOTA	24-32	MC3437L	MOTA	96-35	MC10125F	MOTA	69-45	MC14583BCP	MOTA	104-29	MH0013G	NSC	40-24
MC934P	MOTA	24-33	MC3437P	MOTA	96-36	MC10128L#1	MOTA	38-90	MC14584BAL	MOTA	104-24	MIC932-1D	ITTB	29-88
MC935F	MOTA	24-34	MC3438L	MOTA	97-29	MC10128L#2	MOTA	38-102	MC14584BCL	MOTA	104-25	MIC932-1D	ITTB	29-89
MC935L	MOTA	24-35	MC3438P	MOTA	97-30	MC10129L	MOTA	96-29	MC14584BCP	MOTA	104-26	MIC936-5D	ITTB	24-29
MC935P	MOTA	24-36	MC3440L	MOTA	97-68	MC10132L	MOTA	86-27	MC14584BCP	MOTA	104-26	MIC936-5D	ITTB	24-30
MC936F	MOTA	23-68	MC3441P	MOTA	97-69	MC10132P	MOTA	86-28	MC54151L	MOTA	84-96	MIC937-1D	ITTB	23-57
MC936L	MOTA	23-69	MC3443P	MOTA	97-70	MC10134L	MOTA	86-29	MC54155F	MOTA	92-52	MIC937-5D	ITTB	23-58
MC937L	MOTA	24-37	MC3446P	MOTA	97-71	MC10134P	MOTA	86-30	MC54155L	MOTA	92-53	MIC5404J	INTG	25-61
MC940L	MOTA	24-38	MC3449L	MOTA	105-95	MC10158L	MOTA	87-100	MC54156F	MOTA	92-54	MIC5405AJ	INTG	26-39
MC941F	MOTA	24-39	MC3449P	MOTA	105-96	MC10159L	MOTA	87-101	MC54156L	MOTA	92-55	MIC5405J	INTG	25-62
MC941L	MOTA	24-40	MC3450L	MOTA	95-32	MC10164L	MOTA	85-71	MC54157F	MOTA	89-29	MIC5405J	INTG	25-62
MC943G	MOTA	21-6	MC3450P	MOTA	95-33	MC10164P	MOTA	85-72	MC54157L	MOTA	89-30	MIC5406J	INTG	26-49
MC1017P	MOTA	68-64	MC3452L	MOTA	95-34	MC10165L	MOTA	105-9	MC54460L	MOTA	97-56	MIC5406J	INTG	26-49
MC1018P	MOTA	68-65	MC3452P	MOTA	95-35	MC10165P	MOTA	105-10	MC54468F	MOTA	69-57	MIC5407J	INTG	35-42
MC1020P	MOTA	95-36	MC3453L	MOTA	38-38	MC10173L	MOTA	90-5	MC54468L	MOTA	69-57	MIC5407J	INTG	35-42
MC1023P	MOTA	40-26	MC3453P	MOTA	38-39	MC10173P	MOTA	90-6	MC55107L	MOTA	94-32	MIC5413J	INTG	103-43
MC1026P	MOTA	40-27	MC3459L	MOTA	41-40	MC10174L	MOTA	87-72	MC55108L	MOTA	94-33	MIC5416J	INTG	26-40
MC1028P	MOTA	86-39	MC3459P	MOTA	41-41	MC10190L	MOTA	69-18	MC55325F	MOTA	41-17	MIC5417J	INTG	35-33
MC1035P	MOTA	94-91	MC3460L	MOTA	40-37	MC10191L	MOTA	69-34	MC55325F	MOTA	41-18	MIC5426J	ITTB	32-32
MC1039P	MOTA	69-24	MC3460P	MOTA	40-38	MC10191P	MOTA	69-34	MC74150L	MOTA	86-7	MIC5428J	ITTB	36-54
MC1045P	MOTA	48-70	MC3461L	MOTA	101-99	MC10195L	MOTA	93-73	MC74151P	MOTA	86-7	MIC5433AJ	ITTB	36-59
MC1066P	MOTA	94-92	MC3466L	MOTA	40-99	MC10216L	MOTA	33-73	MC74155F	MOTA	82-57	MIC5433J	ITTB	36-55
MC1067P	MOTA	68-76	MC3466P	MOTA	40-100	MC10218P	MOTA	95-7	MC74155L	MOTA	82-56	MIC5438AJ	ITTB	33-43
MC1068P	MOTA	68-77	MC3467P	MOTA	106-104	MC10514L	MOTA	95-9	MC74155L	MOTA	82-57	MIC5438J	ITTB	33-43
MC1217F	MOTA	68-65	MC3468L	MOTA	106-105	MC10514F	MOTA	95-10	MC74156F	MOTA	82-58	MIC5440J	ITTB	30-31
MC1217L	MOTA	68-66	MC3468P	MOTA	106-106	MC10515L	MOTA	95-10	MC74156F	MOTA	82-59	MIC5441AJ	ITTB	48-73
MC1218F	MOTA	69-22	MC3486L	MOTA	95-22	MC10515F	MOTA	95-43	MC74156L	MOTA	82-59	MIC5441J	ITTB	50-3
MC1218L	MOTA	69-23	MC3486P	MOTA	95-22	MC10515L	MOTA	95-44	MC74156P	MOTA	82-60	MIC5446AJ	ITTB	49-16
MC1220F	MOTA	95-37	MC3487L	MOTA	38-27	MC10516L	MOTA	95-11	MC74156P	MOTA	82-61	MIC5446J	ITTB	49-17
MC1220L	MOTA	95-38	MC3487P	MOTA	38-28	MC10524F	MOTA	95-12	MC74157L	MOTA	89-31	MIC5447AJ	ITTB	49-18
MC1223F	MOTA	40-28	MC3490P	MOTA	47-22	MC10524L	MOTA	69-83	MC74157P	MOTA	89-32	MIC5447J	ITTB	49-19
MC1223L	MOTA	40-29	MC3491P	MOTA	47-23	MC10525F	MOTA	69-84	MC74460P	MOTA	97-57	MIC5448J	ITTB	49-20
MC1226F	MOTA	86-40	MC3492P	MOTA	47-36	MC10525L	MOTA	69-46	MC74468P	MOTA	69-58	MIC7404J	INTG	25-63
MC1226L	MOTA	86-41	MC3494P	MOTA	47-23	MC10564F	MOTA	84-84	MC74468L	MOTA	69-59	MIC7404N	ITTB	25-64
MC1228F	MOTA	86-40	MC3510F	MOTA	62-72	MC10564L	MOTA	84-85	MC74468L	MOTA	69-60	MIC7405AJ	INTG	26-41
MC1228L	MOTA	86-41	MC3510P	MOTA	62-73	MC10574F	MOTA	86-100	MC74507P	MOTA	89-34	MIC7405AN	ITTB	26-42
MC1235F	MOTA	94-93	MC5404F	MOTA	25-14	MC10574L	MOTA	86-101	MC75107L	MOTA	41-19	MIC7405J	INTG	25-65
MC1235L	MOTA	94-94	MC5404L	MOTA	25-15	MC10616F	MOTA	95-13	MC75108L	MOTA	41-20	MIC7405N	ITTB	25-66
MC1239L	MOTA	69-25	MC5405F	MOTA	25-16	MC10616L	MOTA	95-14	MC75108P	MOTA	41-21	MIC7406J	INTG	26-50
MC1245F	MOTA	48-71	MC5405L	MOTA	25-17	MC14016BAL	MOTA	72-60	MC75109P	MOTA	69-36	MIC7406N	ITTB	26-51
MC1245L	MOTA	48-72	MC5406L	MOTA	26-46	MC14016BCL	MOTA	72-61	MC75110L	MOTA	37-15	MIC7407J	INTG	35-43
MC1266F	MOTA	94-95	MC5410L	MOTA	35-39	MC14016BCP	MOTA	72-62	MC75110P	MOTA	37-16	MIC7407N	ITTB	26-51
MC1266L	MOTA	94-96	MC5416L	MOTA	26-34	MC14049BAL	MOTA	27-77	MC75140P1	MOTA	95-50	MIC7407N	ITTB	35-44
MC1267F	MOTA	68-77	MC5524L	MOTA	35-29	MC14049BCL	MOTA	27-78	MC75325F	MOTA	41-19	MIC7413J	INTG	103-44
MC1267L	MOTA	68-78	MC5524L	MOTA	100-40	MC14049BCP	MOTA	27-79	MC75325L	MOTA	41-20	MIC7416N	ITTB	103-45
MC1268F	MOTA	69-29	MC5525L	MOTA	100-7	MC14050BAL	MOTA	35-45	MC75325P	MOTA	41-21	MIC7417J	INTG	

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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
MIC7446J	INTB	49-23	MN328H	MNC	61-17	MN5123	MNC	53-103	N74LS04F	PHIN	23-30	N82S32B	PHIN	84-107
MIC7446N	INTB	49-24	MN333	MNC	60-67	MN5123H	MNC	53-104						
MIC7447AJ	INTB	49-25	MN335	MNC	61-27	MN5130	MNC	53-74	N74LS05A	PHIN	23-31	N82S32F	PHIN	84-108
MIC7447AN	INTB	49-26	MN335H	MNC	61-28	MN5130H	MNC	53-75						
MIC7447J	INTB	49-27	MN343	MNC	102-60	MN5131	MNC	53-76	N74LS05F	PHIN	23-32	N82S33B	PHIN	89-37
MIC7447N	INTB	49-28	MN343H	MNC	102-61	MN5131H	MNC	53-77						
MIC7448J	INTB	49-29	MN344	MNC	102-62	MN5132	MNC	53-78	N74LS13A	PHIN	103-96	N82S33F	PHIN	89-38
MIC7448N	INTB	49-30	MN344H	MNC	102-63	MN5132H	MNC	53-79						
MIC54130J	INTB	45-18	MN346	MNC	102-41	MN5133	MNC	53-80	N74LS13F	PHIN	103-97	N82S34B	PHIN	89-39
MIC54131J	INTB	45-12	MN346H	MNC	102-42	MN5133H	MNC	53-81						
MIC54135J	INTB	103-62	MN347	MNC	102-44	MN5140	MNC	53-82	N74LS14A	PHIN	103-100	N82S34F	PHIN	89-40
MIC54137J	INTB	103-81	MN347H	MNC	102-45	MN5140H	MNC	53-83						
MIC54138J	INTB	45-19	MN360	MNC	65-36	MN5141	MNC	53-84	N74LS14F	PHIN	103-101	N7404A	PHIN	25-67
MIC54139J	INTB	45-13	MN360H	MNC	65-37	MN5141H	MNC	53-85						
MIC54141J	INTB	48-76	MN362	MNC	65-38	MN5142	MNC	53-86	N74LS28A	PHIN	36-42	N7404F	PHIN	25-68
MIC54145J	INTB	50-6	MN362H	MNC	65-39	MN5142H	MNC	53-87						
MIC54150J	INTG	86-10	MN364	MNC	64-84	MN5143	MNC	53-88	N74LS28F	PHIN	36-43	N7405A	PHIN	25-69
	INTB		MN364H	MNC	64-85	MN5143H	MNC	53-89						
MIC54151J	INTG	84-100	MN366	MNC	64-86	MN5200	MNC	57-23	N74LS37A	PHIN	32-5	N7405F	PHIN	25-70
	INTB		MN366H	MNC	64-87	MN5200H	MNC	57-24						
MIC54153J	INTB	87-29	MN370	MNC	65-76	MN5201	MNC	57-25	N74LS37F	PHIN	32-6	N7406A	PHIN	29-1
MIC54154J	INTB	91-55	MN370H	MNC	65-77	MN5201H	MNC	57-26						
MIC54155J	INTB	92-62	MN371	MNC	65-69	MN5202	MNC	57-27	N74LS38A	PHIN	32-7	N7406F	PHIN	29-2
MIC54156J	INTB	92-63	MN371H	MNC	65-70	MN5202H	MNC	57-28						
MIC54157J	INTB	89-34	MN380	MNC	61-71	MN5203	MNC	57-29	N74LS38F	PHIN	32-8	N7407A	PHIN	36-18
MIC74130J	INTB	45-20	MN380H	MNC	61-72	MN5203H	MNC	57-30						
MIC74130N	INTB	45-21	MN410	MNC	62-64	MN5204	MNC	57-31	N74LS132A	PHIN	103-104	N7407F	PHIN	36-19
MIC74131J	INTB	45-14	MN410H	MNC	62-65	MN5204H	MNC	57-32						
MIC74131N	INTB	45-15	MN411	MNC	62-49	MN5205	MNC	57-33	N74LS132F	PHIN	103-105	N7413A	PHIN	103-46
MIC74135J	INTB	103-63	MN411H	MNC	62-50	MN5205H	MNC	57-34						
MIC74135N	INTB	103-64	MN412	MNC	65-74	MN5206	MNC	57-35	N74LS138B	PHIN	91-22	N7413F	PHIN	103-47
MIC74137J	INTB	103-82	MN412H	MNC	65-75	MN5206H	MNC	57-36						
MIC74137N	INTB	103-83	MN413	MNC	65-78	MN5210	MNC	56-41	N74LS138F	PHIN	91-23	N7414A	PHIN	103-84
MIC74138J	INTB	45-22	MN413H	MNC	65-79	MN5210H	MNC	56-42						
MIC74138N	INTB	45-23	MN415	MNC	65-40	MN5211	MNC	56-43	N74LS139B	PHIN	92-18	N7414F	PHIN	103-85
MIC74139J	INTB	45-16	MN415H	MNC	65-41	MN5211H	MNC	56-44						
MIC74139N	INTB	45-17	MN416	MNC	65-42	MN5212	MNC	56-45	N74LS139F	PHIN	92-19	N7416A	PHIN	28-70
MIC74141J	INTB	48-77	MN416H	MNC	65-43	MN5212H	MNC	56-46						
MIC74141N	INTB	48-78	MN502	MNC	53-108	MN5213	MNC	56-47	N74LS145B	PHIN	50-9	N7416F	PHIN	28-71
MIC74145J	INTB	50-7	MN502H	MNC	54-1	MN5213H	MNC	56-48						
MIC74145N	INTB	50-8	MN503	MNC	54-2	MN5214	MNC	56-49	N74LS145F	PHIN	50-10	N7417A	PHIN	36-13
MIC74150J	INTG	86-11	MN503H	MNC	54-3	MN5214H	MNC	56-50						
	INTB		MN504	MNC	54-4	MN5215	MNC	56-51	N74LS151B	PHIN	84-39	N7417F	PHIN	36-14
MIC74151J	INTG	84-101	MN504H	MNC	54-5	MN5215H	MNC	56-52						
	INTB		MN507	MNC	54-6	MN5216	MNC	56-53	N74LS151F	PHIN	84-40	N7428A	PHIN	36-60
MIC74151N	INTB	84-102	MN507H	MNC	54-7	MN5216H	MNC	56-54						
MIC74153J	INTB	87-30	MN508	MNC	54-8	MN5250	MNC	57-40	N74LS153B	PHIN	86-69	N7428F	PHIN	36-61
MIC74153N	INTB	87-31	MN508H	MNC	54-9	MN5250H	MNC	57-41						
MIC74154J	INTB	91-56	MN509	MNC	54-10	MN5251	MNC	57-42	N74LS153F	PHIN	86-70	N7437A	PHIN	33-24
MIC74155J	INTB	91-57	MN509H	MNC	54-11	MN5251H	MNC	57-43						
MIC74155N	INTB	92-64	MN510	MNC	54-12	MN5252	MNC	57-44	N74LS157B	PHIN	88-58	N7437F	PHIN	33-25
MIC74156J	INTB	92-65	MN510H	MNC	54-13	MN5252H	MNC	57-45						
MIC74156N	INTB	92-66	MN511	MNC	54-14	MN5253	MNC	57-46	N74LS157F	PHIN	88-59	N7438A	PHIN	33-26
MIC74157J	INTB	89-35	MN511H	MNC	54-15	MN5253H	MNC	57-47						
MIC74157N	INTB	89-36	MN515	MNC	57-17	MN5260	MNC	59-5	N74LS158B	PHIN	88-60	N7438F	PHIN	33-27
MM450FD	INL	75-104	MN515H	MNC	57-18	MN7000	MNC	105-76						
MM450H	NSC	75-11	MN516	MNC	57-19	MN7000H	MNC	105-77	N74LS158F	PHIN	88-61	N7439A	PHIN	33-28
MM450TW	INL	75-105	MN516H	MNC	57-20	MN7002	MNC	105-78						
MM451FD	INL	75-106	MN517	MNC	57-21	MN7002H	MNC	105-79	N74LS251B	PHIN	84-41	N7439F	PHIN	33-29
MM451H	NSC	75-107	MN517H	MNC	57-22	MN7100	MNC	105-80						
MM451TW	INL	75-108	MN3000	MNC	61-18	MN7100H	MNC	105-81	N74LS258B	PHIN	88-62	N7440A	PHIN	30-34
MM452D	NSC	75-109	MN3000H	MNC	61-19	MN7110	MNC	82-82						
MM452F	NSC	75-110	MN3001	MNC	61-20	MN7110H	MNC	82-83	N74S04A	PHIN	27-39	N7440F	PHIN	30-35
MM452FD	INL	72-96	MN3001H	MNC	61-21	MN7120	MNC	105-82						
MM452TW	INL	72-97	MN3002	MNC	61-22	MN7120H	MNC	105-83	N74S04F	PHIN	27-40	N7445B	PHIN	50-11
MM454F	NSC	76-1	MN3002H	MNC	61-23	MN7200	MNC	59-6						
MM455FD	INL	72-18	MN3003	MNC	62-58	MPC4D	BUB	83-56	N74S05A	PHIN	27-41	N7445F	PHIN	50-12
MM455H	NSC	75-37	MN3003H	MNC	62-59	MPC8D	BUB	83-43						
MM455TW	INL	72-19	MN3004	MNC	62-60	MPC8S	BUB	83-57	N74S05F	PHIN	27-42	N7446AB	PHIN	49-31
MM550FD	INL	76-2	MN3004H	MNC	62-61	MPC16S	BUB	82-106						
MM550H	NSC	75-12	MN3005	MNC	62-62	MPM8S	BUB	82-43	N74S37A	PHIN	33-54	N7446AF	PHIN	49-32
MM550TW	INL	76-3	MN3005H	MNC	62-63	MS504#1	RAG	82-32						
MM551FD	INL	76-4	MN3006	MNC	61-29	MS504#2	RAG	82-33	N74S37F	PHIN	33-55	N7447AB	PHIN	49-33
MM551H	NSC	76-5	MN3006H	MNC	61-30	MS504#3	RAG	82-34						
MM551TW	INL	76-6	MN3007	MNC	62-66	MS504#4	RAG	82-35	N74S38A	PHIN	33-56	N7447AF	PHIN	49-34
MM552D	NSC	76-7	MN3007H	MNC	62-67	MSSH-01	DDC	102-64						
MM552F	NSC	76-8	MN3008	MNC	60-89	MSSH-02	DDC	102-65	N74S38F	PHIN	33-57	N7448B	PHIN	49-35
MM552FD	INL	72-98	MN3008H	MNC	60-90	MSSH-05	DDC	102-66						
MM552TW	INL	72-99	MN3009	MNC	60-91	MUX201	HBC	82-41	N74S138B	PHIN	91-36	N7448F	PHIN	49-36
MM554F	NSC	76-9	MN3009H	MNC	60-92	MUX201-MIL	HBC	82-42						
MM555FD	INL	72-20	MN3010	MNC	61-24	MUX202-M/B	HBC	82-66	N74S138F	PHIN	91-37	N8230B	PHIN	84-109
MM555H	NSC	75-38	MN3010H	MNC	61-25	MUX202-M/C	HBC	82-67						
MM555TW	INL	72-21	MN3013	MNC	61-26	MUX203	HBC	82-71	N74S139B	PHIN	92-95	N8230F	PHIN	84-110
MM4357D	NSC	54-25	MN3014	MNC	60-106	MUX204	HBC	82-107						
MM4504D	NSC	76-63	MN3015	MNC	60-68	MV-1606	DTL	82-94	N74S139F	PHIN	92-96	N8230W	PHIN	85-1
MM4504F	NSC	76-64	MN3015H	MNC	60-69	MV-1606M	DTL	82-95						
MM5357D	NSC	54-26	MN3020	MNC	61-1	MVD-807	DTL	83-35	N74S151B	PHIN	85-73	N8231B	PHIN	85-2
MM5357N	NSC	54-27	MN3020H	MNC	61-2	MVD-807M	DTL	83-36						
MM5504D	NSC	76-65	MN3100	MNC	62-74	MX01C	AMI	73-39	N74S151F	PHIN	85-74	N8231F	PHIN	85-3
MM5504F	NSC	76-66	MN3210	MNC	65-71	MX02D	AMI	77-2						
MM-16	DTL	82-84	MN3211	MNC	65-72	MX03C	AMI	77-7	N74S153B	PHIN	87-73	N8231W	PHIN	85-4
MM-16-1	DTL	82-85	MN3212	MNC	65-73	MX52D	AMI	77-3						
MMD-8	DTL	82-44	MN3300	MNC	67-57	MX53C	AMI	77-8	N74S153F	PHIN	87-74	N8232B	PHIN	85-5
MMH0026CG	MOTA	40-77	MN3850	MNC	65-29	MX54C	AMI	74-98						
MMH0026CL	MOTA	40-78	MN3850E	MNC	65-30	MX55C	AMI	74-97	N74S157B	PHIN	90-7	N8232F	PHIN	85-6
MMH0026CP1	MOTA	40-79	MN3850H	MNC	65-31	MX-808	DTL	82-68						
MMH0026G	MOTA	40-80	MN3860	MNC	65-32	MX-1606	DTL	82-104	N74S157F	PHIN	90-8	N8232W	PHIN	85-7

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N8235W	PHIN	89-49	RDAC-11-1	DDC	67-17	S54S138W	PHIN	91-40	S8230B	PHIN	85-20	S54157W	PHIN	89-69
	SIC		RDAC-11-3	DDC	67-18		SIC			SIC			SIC	
N8263F	PHIN	90-57	RDAC-12-1	DDC	66-107	S54S139F	PHIN	92-97	S8230F	PHIN	85-21	S54158F	PHIN	89-70
	SIC		RDAC-12-3	DDC	67-1		SIC			SIC			SIC	
N8263N	PHIN	90-58	RDC620-H-1	DDC	55-54	S54S139W	PHIN	92-98	S8230W	PHIN	85-22	S54158W	PHIN	89-71
	SIC		RDC620-H-3	DDC	55-55		SIC			SIC			SIC	
N8263Q	PHIN	90-59	RDC620-L-1	DDC	55-56	S54S151F	PHIN	85-76	S8231B	PHIN	85-23	S54232F	PHIN	103-70
	SIC		RDC620-L-3	DDC	55-57		SIC			SIC			SIC	
N8264F	PHIN	90-63	RDC620-M-1	DDC	55-58	S54S151W	PHIN	85-77	S8231F	PHIN	85-24	S54232W	PHIN	103-71
	SIC		RDC620-M-3	DDC	55-59		SIC			SIC			SIC	
N8264N	PHIN	90-64	RM55325DD	RTN	41-63	S54S153F	PHIN	87-75	S8231W	PHIN	85-25	S54298F	PHIN	89-72
	SIC		RSN54H149H	TII	91-38		SIC			SIC			SIC	
N8264Q	PHIN	90-65		TII		S54S153W	PHIN	87-76	S8232B	PHIN	85-26	S54298W	PHIN	89-73
	SIC		RSN5404H	TII	26-45		SIC			SIC			SIC	
N9309B	PHIN	87-32		TII		S54S157F	PHIN	90-12	S8232F	PHIN	85-27	SCL4009AC	SSS	68-34
	SIC		S54H04F	PHIN	27-43		SIC			SIC		SCL4009AD	SSS	68-35
N9309F	PHIN	87-33		SIC		S54S157W	PHIN	90-13	S8232W	PHIN	85-28	SCL4009AF	SSS	68-36
	SIC		S54H04W	PHIN	27-44		SIC			SIC		SCL4009AH	SSS	68-37
N9312B	PHIN	85-8		SIC		S54S158F	PHIN	90-14	S8233B	PHIN	89-59	SCL4009AA	SSS	68-38
	SIC		S54H05F	PHIN	27-45		SIC			SIC		SCL4010AC	SSS	68-39
N9312F	PHIN	85-9		SIC		S54S158W	PHIN	90-15	S8233F	PHIN	89-60	SCL4010AD	SSS	68-40
	SIC		S54H05W	PHIN	27-46		SIC			SIC		SCL4010AE	SSS	68-41
N74125A	PHIN	34-10		SIC		S54S251F	PHIN	85-78	S8233W	PHIN	89-61	SCL4010AF	SSS	68-42
	SIC		S54H40F	PHIN	29-91		SIC			SIC		SCL4010AH	SSS	68-43
N74125F	PHIN	34-11		SIC		S54S251W	PHIN	85-79	S8234B	PHIN	89-62	SCL4049AC	SSS	68-44
	SIC		S54H40W	PHIN	31-9		SIC			SIC		SCL4049AD	SSS	68-45
N74126A	PHIN	34-12		SIC		S54S258F	PHIN	90-16	S8234F	PHIN	89-63	SCL4049AE	SSS	68-46
	SIC		S54LS04F	PHIN	23-33		SIC			SIC		SCL4049AF	SSS	68-47
N74126F	PHIN	34-13		SIC		S54S258W	PHIN	90-17	S8234W	PHIN	89-64	SCL4049AH	SSS	68-48
	SIC		S54LS04W	PHIN	23-34		SIC			SIC		SCL4050AC	SSS	68-49
N74128A	PHIN	36-62		SIC		S82S30B	PHIN	85-14	S8235B	PHIN	89-65	SCL4050AD	SSS	68-50
	SIC		S54LS05F	PHIN	23-35		SIC			SIC		SCL4050AE	SSS	68-51
N74128F	PHIN	36-63		SIC		S82S30F	PHIN	85-15	S8235F	PHIN	89-66	SCL4050AF	SSS	68-52
	SIC		S54LS05W	PHIN	23-36		SIC			SIC		SCL4050AH	SSS	68-53
N74132A	PHIN	103-65		SIC		S82S31B	PHIN	85-16	S8235W	PHIN	89-67	SDAC-10-1	DDC	67-25
	SIC		S54LS13F	PHIN	103-98		SIC			SIC		SDAC-10-3	DDC	67-26
N74132F	PHIN	103-66		SIC		S82S31F	PHIN	85-17	S8263F	PHIN	90-60	SDAC-11-1	DDC	67-13
	SIC		S54LS13W	PHIN	103-99		SIC			SIC		SDAC-11-3	DDC	67-14
N74145B	PHIN	50-13		SIC		S82S32B	PHIN	85-18	S8263N	PHIN	90-61	SDAC-12-1	DDC	66-102
	SIC		S54LS14F	PHIN	103-102		SIC			SIC		SDAC-12-3	DDC	66-103
N74145F	PHIN	50-14		SIC		S82S32F	PHIN	85-19	S8263Q	PHIN	90-62	SDC501-1	DDC	59-38
	SIC		S54LS14W	PHIN	103-103		SIC			SIC		SDC501-3	DDC	59-39
N74147B	PHIN	105-11		SIC		S82S33B	PHIN	89-55	S8264F	PHIN	90-66	SDC620-H-1	DDC	55-60
	SIC		S54LS28F	PHIN	36-44		SIC			SIC		SDC620-H-3	DDC	55-61
N74147F	PHIN	105-12		SIC		S82S33F	PHIN	89-56	S8264N	PHIN	90-67	SDC620-L-1	DDC	55-62
	SIC		S54LS28W	PHIN	36-45		SIC			SIC		SDC620-L-3	DDC	55-63
N74148B	PHIN	105-13		SIC		S82S34B	PHIN	89-57	S8264Q	PHIN	90-68	SDC620-L-1	DDC	55-64
	SIC		S54LS37F	PHIN	32-9		SIC			SIC		SDC620-L-3	DDC	55-65
N74148F	PHIN	105-14		SIC		S82S34F	PHIN	89-58	S9309F	PHIN	87-36	SDC 1602511	ANA	59-9
	SIC		S54LS37W	PHIN	32-10		SIC			SIC		SDC 1602512	ANA	59-10
N74150F	PHIN	86-12		SIC		S1757	AMI	105-51	S9309W	PHIN	87-37	SDC 1602611	ANA	59-11
	SIC		S54LS38F	PHIN	32-11	S1883	AMI	105-52		SIC		SDC 1602612	ANA	59-12
N74150N	PHIN	86-13		SIC		S1907A	AMI	106-103	S9312F	PHIN	85-29	SDC 1603511	ANA	55-91
	SIC		S54LS38W	PHIN	32-12	S5404F	PHIN	25-71		SIC		SDC 1603512	ANA	55-92
N74151B	PHIN	85-10		SIC			SIC		S9312W	PHIN	85-30	SDC 1603611	ANA	55-93
	SIC		S54LS132F	PHIN	103-106		SIC			SIC		SDC 1603612	ANA	55-94
N74151F	PHIN	85-11		SIC		S5404W	PHIN	25-72	S54125F	PHIN	34-14	SDC 1786511	ANA	55-95
	SIC		S54LS132W	PHIN	103-107		SIC			SIC		SDC 1786512	ANA	55-96
N74152A	PHIN	85-12		SIC		S5405F	PHIN	25-73	S54125W	PHIN	34-15	SDC 1786611	ANA	55-97
	SIC		S54LS138F	PHIN	91-24		SIC			SIC		SDC 1786612	ANA	55-98
N74152F	PHIN	85-13		SIC		S5405W	PHIN	25-74	S54126F	PHIN	34-16	SDM850	BUB	105-84
	SIC		S54LS138W	PHIN	91-25		SIC			SIC		SDM851	BUB	105-85
N74153B	PHIN	87-34		SIC		S5406F	PHIN	28-45	S54126W	PHIN	34-17	SDM853	BUB	105-86
	SIC		S54LS139F	PHIN	92-20		SIC			SIC		SFC404E	NPC	25-24
N74153F	PHIN	87-35		SIC		S5406W	PHIN	28-46	S54128F	PHIN	36-66		THCF	
	SIC		S54LS139W	PHIN	92-21		SIC			SIC		SFC404EM	NPC	25-25
N74154F	PHIN	91-58		SIC		S5407F	PHIN	35-77	S54128W	PHIN	36-67		THCF	
	SIC		S54LS145F	PHIN	50-15		SIC			SIC		SFC404ET	NPC	25-26
N74154N	PHIN	91-59		SIC		S5407W	PHIN	35-78	S54132F	PHIN	103-68		THCF	
	SIC		S54LS145W	PHIN	50-16		SIC			SIC		SFC404HE	NPC	27-13
N74155B	PHIN	92-67		SIC		S5413F	PHIN	103-48	S54132W	PHIN	103-69		THCF	
	SIC		S54LS151F	PHIN	84-42		SIC			SIC		SFC404HEM	NPC	27-14
N74155F	PHIN	92-68		SIC		S5413W	PHIN	103-49	S54145F	PHIN	50-19		THCF	
	SIC		S54LS151W	PHIN	84-43		SIC			SIC		SFC404HJM	NPC	27-15
N74156B	PHIN	92-69		SIC		S5414F	PHIN	103-86	S54145W	PHIN	50-20		THCF	
	SIC		S54LS153F	PHIN	86-71		SIC			SIC		SFC404HKM	NPC	27-16
N74156F	PHIN	92-70		SIC		S5414W	PHIN	103-87	S54147F	PHIN	105-15		THCF	
	SIC		S54LS153W	PHIN	86-72		SIC			SIC		SFC404HPM	NPC	27-17
N74157F	PHIN	89-51		SIC		S5416F	PHIN	28-20	S54147W	PHIN	105-16		THCF	
	SIC		S54LS157F	PHIN	88-63		SIC			SIC		SFC404JM	NPC	25-27
N74158B	PHIN	89-52		SIC		S5416W	PHIN	28-21	S54148F	PHIN	105-17		THCF	
	SIC		S54LS157W	PHIN	88-64		SIC			SIC		SFC404KM	NPC	25-28
N74158F	PHIN	89-53		SIC		S5417F	PHIN	35-53	S54148W	PHIN	105-18		THCF	
	SIC		S54LS158F	PHIN	88-65		SIC			SIC		SFC404LSE	NPC	23-45
N74232A	PHIN	103-67		SIC		S5417W	PHIN	35-54	S54150F	PHIN	86-14		THCF	
	SIC		S54LS158W	PHIN	88-66		SIC			SIC		SFC404LSEM	NPC	23-10
N74298B	PHIN	89-54		SIC		S5428F	PHIN	36-64	S54150Q	PHIN	86-15		THCF	
	SIC		S54LS251F	PHIN	84-44		SIC			SIC		SFC404PM	NPC	25-29
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	◆THCF			◆THCF			◆THCF			◆THCF		SHC80KP	◆BUB	102-69
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	◆THCF			◆THCF			◆THCF			◆THCF		SHC85ET	◆BUB	102-53
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	◆THCF			◆THCF			◆THCF			◆THCF		SHM-1	◆DTL	102-57
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	◆THCF			◆THCF			◆THCF			◆THCF		SI3705193P	◆SIX	82-9
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SFC432JM	◆NPC	36-87	SFC4150KM	◆NPC	86-20	SFC5108AKM	◆NPC	94-45	SFF1122KT	◆NPC	75-22	SN54L46J	◆TII	49-40
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	†TIB									†TIB		SP703BE	†PLSB	52-47
SN74156N	†TII	92-90	SN75113N	†TII	37-87	SN75236W	†TII	99-61	SN75426N	†TII	47-7	SP703BF	†PLSB	52-48
	†TIB									†TIB		SP704AE	†PLSB	52-49
SN74157J	†TII	89-86	SN75114J	†TII	37-68	SN75238J	†TII	100-104	SN75427J	†TII	47-8	SP704AF	†PLSB	52-50
	†TIB									†TIB		SP704BF	†PLSB	52-51
SN74157N	†TII	89-87	SN75114N	†TII	37-69	SN75238N	†TII	100-105	SN75427N	†TII	47-9	SP704BE	†PLSB	52-52
	†TIB									†TIB		SP704BF	†PLSB	52-52
SN74159J	†TII	91-76	SN75115J	†TII	93-65	SN75244J	†TII	99-58	SN75430J	†TII	42-42	SP721BE	†PLSB	37-3
	†TIB									†TIB		SP721BF	†PLSB	37-3
SN74159N	†TII	91-77	SN75115N	†TII	93-66	SN75244JA	†TII	99-59	SN75430N	†TII	42-43	SP722BE	†PLSB	37-4
	†TIB									†TIB		SP722BF	†PLSB	37-4
SN74246J	†TII	50-98	SN75116J	†TII	97-5	SN75244N	†TII	99-60	SN75431JG	†TII	42-44	SP722BT	†PLSB	93-3
	†TIB									†TIB		SP723BE	†PLSB	93-4
SN74246N	†TII	50-99	SN75116N	†TII	97-6	SN75270J	†TII	69-63	SN75431P	†TII	42-45	SP723BF	†PLSB	93-5
	†TIB									†TIB		SP724BE	†PLSB	93-17
SN74247J	†TII	50-100	SN75117JG	†TII	97-7	SN75270N	†TII	69-64	SN75432JG	†TII	42-46	SP724BF	†PLSB	93-18
	†TIB									†TIB		SP751AF	†PLSB	52-41
SN74247N	†TII	50-101	SN75117P	†TII	97-8	SN75322J	†TII	69-97	SN75432P	†TII	42-47	SP751BF	†PLSB	52-42
	†TIB									†TIB		SP752BF	†PLSB	29-26
SN74248J	†TII	50-102	SN75118J	†TII	97-9	SN75322N	†TII	69-98	SN75433JG	†TII	42-48	SP752BF	†PLSB	29-27
	†TIB									†TIB		SP1023	†PLSB	40-32
SN74248N	†TII	50-103	SN75118N	†TII	97-10	SN75324J	†TII	41-44	SN75433P	†TII	42-49	SP1023	†PLSB	68-26
	†TIB									†TIB		SP1223	†PLSB	40-33
SN74251J	†TII	85-50	SN75119JG	†TII	97-11	SN75324N	†TII	41-45	SN75434JG	†TII	42-50	SP1239	†PLSB	68-27
	†TIB									†TIB		SSS1408A6Q	†PMI	60-45
SN74251N	†TII	85-51	SN75119P	†TII	97-12	SN75325J	†TII	41-69	SN75434P	†TII	42-51	SSS1408A7Q	†PMI	60-46
	†TIB									†TIB		SSS1408A8Q	†PMI	60-47
SN74278J	†TII	105-46	SN75121J	†TII	38-83	SN75325N	†TII	41-70	SN75450BJ	†TII	43-43	SSS1508A8Q	†PMI	60-48
	†TIB									†TIB		SW729-1F	†SWM	47-45
SN74278N	†TII	105-47	SN75121N	†TII	38-84	SN75326J	†TII	41-50	SN75450BN	†TII	43-44	SW729-1P	†SWM	47-46
	†TIB									†TIB		SW729-1S	†SWM	47-47
SN74298J	†TII	89-88	SN75122J	†TII	95-85	SN75326N	†TII	41-51	SN75451BJG	†TII	43-45	SW729-1T	†SWM	47-48
	†TIB									†TIB		SW729-2F	†SWM	47-49
SN74298N	†TII	89-89	SN75122N	†TII	95-86	SN75327J	†TII	41-52	SN75451BP	†TII	43-46	SW729-2P	†SWM	47-50
	†TIB									†TIB		SW729-2S	†SWM	47-51
SN74351N	†TII	87-98	SN75123J	†TII	38-98	SN75327N	†TII	41-53	SN75452BJG	†TII	43-47	SW729-2T	†SWM	47-52
	†TIB									†TIB		T54S151F	†TEC	85-92
SN74365AJ	†TII	35-88	SN75123N	†TII	38-99	SN75350JG	†TII	68-86	SN75452BP	†TII	43-48	T54S151J	†TEC	85-93
	†TIB									†TIB		T54S152F	†TEC	85-94
SN74365AN	†TII	35-89	SN75124J	†TII	95-87	SN75350P	†TII	68-87	SN75453BJG	†TII	43-49	T54S152J	†TEC	85-95
	†TIB									†TIB		T54S153F	†TEC	87-92
SN74365J	†TII	36-5	SN75124N	†TII	95-88	SN75355J	†TII	68-102	SN75453BP	†TII	43-50	T54S153J	†TEC	87-93
	†TIB									†TIB		T54S157F	†TEC	90-44
SN74365N	†TII	36-6	SN75138J	†TII	97-17	SN75355N	†TII	68-103	SN75454BJG	†TII	43-51	T54S157J	†TEC	90-45
	†TIB									†TIB		T54S158F	†TEC	90-46
SN74366AJ	†TII	28-56	SN75138N	†TII	97-18	SN75361AJG	†TII	68-88	SN75454BP	†TII	43-52	T54S158J	†TEC	90-47
	†TIB									†TIB		T54S251F	†TEC	85-96
SN74366AN	†TII	28-57	SN75140JG	†TII	95-56	SN75361AP	†TII	68-89	SN75460J	†TII	43-95	T54S251J	†TEC	85-97
	†TIB									†TIB		T74S151F	†TEC	85-98
SN74366J	†TII	28-64	SN75140P	†TII	95-57	SN75363J	†TII	68-90	SN75460N	†TII	43-96	T74S151J	†TEC	85-99
	†TIB									†TIB		T74S152F	†TEC	85-100
SN74366N	†TII	28-65	SN75150JG	†TII	39-2	SN75363N	†TII	68-91	SN75461JG	†TII	43-97	T74S152J	†TEC	85-101
	†TIB									†TIB		T74S153F	†TEC	87-94
SN74367AJ	†TII	36-1	SN75150P	†TII	39-3	SN75364JG	†TII	40-36	SN75461P	†TII	43-98	T74S153J	†TEC	87-95
	†TIB									†TIB		T74S157F	†TEC	90-48
SN74367AN	†TII	36-2	SN75152J	†TII	93-94	SN75364P	†TII	40-37	SN75462JG	†TII	43-99	T74S157J	†TEC	90-49
	†TIB									†TIB		T74S158F	†TEC	90-50
SN74367J	†TII	36-9	SN75152N	†TII	93-95	SN75365J	†TII	68-104	SN75462P	†TII	43-100	T74S158J	†TEC	90-51
	†TIB									†TIB		T74S251F	†TEC	85-102
SN74367N	†TII	36-10	SN75154J	†TII	96-18	SN75365N	†TII	68-105	SN75463JG	†TII	43-101	T74S251J	†TEC	85-103
	†TIB									†TIB		T163B1	†SGAI	84-70
SN74368AJ	†TII	28-58	SN75154N	†TII	96-19	SN75366J	†TII	68-106	SN75463P	†TII	43-102	T163D1	†SGAI	84-71
	†TIB									†TIB		T163D2	†SGAI	84-69
SN74368AN	†TII	28-59	SN75158JG	†TII	38-44	SN75366N	†TII	68-107	SN75464JG	†TII	43-103	T164B1	†SGAI	87-52
	†TIB									†TIB		T164D1	†SGAI	87-53
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	†TIB									†TIB		T168B1	†SGAI	89-90
SN74368N	†TII	28-67	SN75180L	†TII	68-85	SN75367N	†TII	68-109	SN75470J	†TII	44-28	T168D1	†SGAI	89-91
	†TIB									†TIB		T172B1	†SGAI	96-28
SN74425J	†TII	33												

1. TYPE No. CROSS INDEX

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TF4301AN	TIIB	36-38	TP4016AJ	TIIB	72-53	UHC407-1	SPR	45-60	ZD462	ZEL	56-10			
TF4311AJ	TIIB	31-26	TP4016AN	TIIB	72-54	UHC408	SPR	45-37	ZD470	ZEL	54-16			
TF4311AN	TIIB	31-27	TP4049AJ	TIIB	22-39	UHC408-1	SPR	45-61	ZD471	ZEL	55-25			
TF4512AJ	TIIB	84-8	TP4049AN	TIIB	22-40	UHC432	SPR	45-38	ZN425E	FERR	60-105			
TF4512AN	TIIB	84-9	TP4050AJ	TIIB	34-66	UHC432-1	SPR	45-62	ZN432CE	FERR	55-17			
TF4519AJ	TIIB	87-105	TP4050AN	TIIB	34-67	UHC433	SPR	45-39	ZN1002E	FERR	41-6			
TF4519AN	TIIB	87-106	TP4301AJ	TIIB	36-35	UHC433-1	SPR	45-63	ZN1004E	FERR	37-5			
TG54S04F	TEC	27-69	TP4301AN	TIIB	36-36	UHC500	SPR	45-80	ZN1005E	FERR	93-6			
TG54S04J	TEC	27-70	TP4311AJ	TIIB	31-24	UHC502	SPR	45-81	ZN1030E	FERR	99-9			
TG54S05F	TEC	27-71	TP4311AN	TIIB	31-25	UHC503	SPR	45-82	ZN1040E	FERR	51-37			
TG54S05J	TEC	27-72	TP4512AJ	TIIB	84-6	UHC506	SPR	45-83	ZN5404E	FERR	26-26			
TG74S04F	TEC	27-73	TP4512AN	TIIB	84-7	UHC507	SPR	45-84	ZN5404F	FERR	26-27			
TG74S04J	TEC	27-74	TR182CL	TIIB	79-103	UHC508	SPR	45-85	ZN5405E	FERR	26-28			
TG74S05F	TEC	27-75	TR182CN	TIIB	79-104	UHC532	SPR	45-86	ZN5405F	FERR	26-29			
TG74S05J	TEC	27-76	TR182IL	TIIB	79-105	UHC533	SPR	45-87	ZN7404E	FERR	26-30			
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TL182CN	TIIB	79-104	TR182ML	TIIB	79-99	UHD400	SPR	45-40	ZN7405E	FERR	26-32			
TL182IL	TIIB	79-105	TL182IN	TIIB	79-106	UHD400-1	SPR	45-64	ZN7405F	FERR	26-33			
TL182IN	TIIB	79-106	TL185CJ	TIIB	80-70	UHD402	SPR	45-41	ZN7441AE	FERR	50-104			
TL182ML	TIIB	79-99	TL185CN	TIIB	80-71	UHD402-1	SPR	45-65	ZSS54A	FERR	21-43			
TL185CJ	TIIB	80-70	TL185IJ	TIIB	80-72	UHD403	SPR	45-42	ZSS54B	FERR	21-44			
TL185CN	TIIB	80-71	TL185IN	TIIB	80-73	UHD403-1	SPR	45-66	ZSS84A	FERR	21-45			
TL185IJ	TIIB	80-72	TL185MJ	TIIB	80-69	UHD406	SPR	45-43	ZSS84B	FERR	21-46			
TL185IN	TIIB	80-73	TL188CL	TIIB	78-11	UHD406-1	SPR	45-67	ZST2	FERR	42-38			
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TL188CN	TIIB	78-12	TL188IN	TIIB	78-14	UHD408	SPR	45-45						
TL188IL	TIIB	78-13	TL188ML	TIIB	77-99	UHD408-1	SPR	45-69						
TL188IN	TIIB	78-14	TL191CJ	TIIB	78-99	UHD432	SPR	45-46						
TL188ML	TIIB	77-99	TL191CN	TIIB	78-100	UHD432-1	SPR	45-70						
TL191CJ	TIIB	78-99	TL191IJ	TIIB	78-101	UHD433	SPR	45-47						
TL191CN	TIIB	78-100	TL191IN	TIIB	78-102	UHD433-1	SPR	45-71						
TL191IJ	TIIB	78-101	TL191MJ	TIIB	78-98	UHD490	SPR	47-12						
TL191IN	TIIB	78-102	TL601CJG	TIIB	81-38	UHD491	SPR	47-19						
TL191MJ	TIIB	78-98	TL601CP	TIIB	81-39	UHD500	SPR	45-88						
TL601CJG	TIIB	81-38	TL601IJG	TIIB	81-33	UHD502	SPR	45-89						
TL601CP	TIIB	81-39	TL601IP	TIIB	81-34	UHD503	SPR	45-90						
TL601IJG	TIIB	81-33	TL601MJG	TIIB	81-42	UHD506	SPR	45-91						
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TL604CJG	TIIB	78-37	TL604IJG	TIIB	78-34	UHD532	SPR	45-94						
TL604CP	TIIB	78-38	TL604IP	TIIB	78-35	UHD533	SPR	45-95						
TL604IJG	TIIB	78-34	TL604MJG	TIIB	78-36	UHP060	SPR	45-10						
TL604IP	TIIB	78-35	TL607CJG	TIIB	81-40	UHP400	SPR	45-48						
TL604MJG	TIIB	78-36	TL607CP	TIIB	81-41	UHP400-1	SPR	45-72						
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TL607CP	TIIB	81-41	TL607IP	TIIB	81-36	UHP402-1	SPR	45-73						
TL607IJG	TIIB	81-35	TL607MJG	TIIB	81-37	UHP403	SPR	45-50						
TL607IP	TIIB	81-36	TL610CJG	TIIB	71-18	UHP403-1	SPR	45-74						
TL607MJG	TIIB	81-37	TL610CP	TIIB	71-19	UHP406	SPR	45-51						
TL610CJG	TIIB	71-18	TL610IJG	TIIB	71-15	UHP406-1	SPR	45-75						
TL610CP	TIIB	71-19	TL610IP	TIIB	71-16	UHP407	SPR	45-52						
TL610IJG	TIIB	71-15	TL610MJG	TIIB	71-17	UHP407-1	SPR	45-76						
TL610IP	TIIB	71-16	TL7404N	ALGG	26-20	UHP408	SPR	45-53						
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TL7405N	ALGG	26-21	TL7407N	ALGG	35-25	UHP432	SPR	45-79						
TL7406N	ALGG	25-30	TL7413N	ALGG	103-58	UHP432-i	SPR	45-78						
TL7407N	ALGG	35-25	TL7416N	ALGG	26-22	UHP433	SPR	45-55						
TL7413N	ALGG	103-58	TL7417N	ALGG	35-26	UHP433-1	SPR	45-79						
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						UHP503	SPR	45-98						
						UHP506	SPR	45-99						
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						UL03C	AMI	29-22						
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						ULN2074A	SPR	45-105						
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						ULN3305M	SPR	103-14						
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						VADC-150-1	DDC	102-23						
						VADC-150-3	DDC	102-24						
						VADC-A	DDC	53-40						
						VADC-B	DDC	53-41						
						VMUX	DDC	81-17						
						VSSH-F-1	DDC	102-10						
						VSSH-F-3	DDC	102-11						
						VSSH-S-1	DDC	102-14						
						VSSH-S-3	DDC	102-15						
						XC8T28L	MOTA	97-72						
						XC8T28P	MOTA	97-73						
						XC8T95L	MOTA	36-29						
						XC8T95P	MOTA	36-30						
						XC8T96L	MOTA	29-12						
						XC8T96P	MOTA	29-13						
						XC8T97L	MOTA	36-31						
						XC8T97P	MOTA	36-32						
						XC8T98L	MOTA	29-14						
				</										

2. LOGIC BUFFERS/DRIVERS

IN ORDER OF: (1)BASIC LOGIC (2)CKTS/DEVICE
(3)MIN.OUTPUT CURR. & (4)TYPE NUMBER

LINE No.	TYPE NUMBER	FUNCT. CODE	ORGANIZ.	T E C H N I C A L	MINIMUM OUTPUT CURRENT (A)	MAX. OUTPUT VOLT. (V)	INPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. NOISE IMMUNITY (V)	MAX. PROP. DELAY tpd (s)	MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS					
							BASIC LOGIC	OUTP. CONN.	LOGIC CKTS PER DEVT	INPT PER DEVT				HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)	(-) (°C)	(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. Δ=MO
1	390AL	AND	OC	2	4	DTL	250m	.70	6.5Δ	5.0*	0.0	16	3.5 *	500n	640m	30	70	AA1	DL16		
2	390CL	AND	OC	2	4	DTL	250m	.70	6.5Δ	5.0*	0.0	16	3.5 *	500n	640m	30	70	AA1	DL16		
3	391AL	AND	OC	2	2	DTL	250m	.70	6.5Δ	5.0*	0.0	16	3.5 *	500n	640m	30	70	AA1a	DL14		
4	391CL	AND	OC	2	2	DTL	250m	.70	6.5Δ	5.0*	0.0	16	3.5 *	500n	640m	30	70	AA1a	DL14		
5	MC843G	AND	OC	2	4	DTL	250m	.50	4.0	1.9†	1.1†	0.0	5.0	230n	90m†	0	75	AA91	TO100		
6	MC943G	AND	OC	2	4	DTL	250m	.50	4.0	2.0†	1.1†	0.0	5.0	150n	90m†	55	125	AA91	TO100		
7	5518	AND	3S	12	2	TTL	16m	.40	2.0	.80	0.0	5.0	23n	480m†	0	70	AA78	PC12			
8	5518A	AND	3S	12	2	TTL	16m	.40	2.0	.80	0.0	5.0	23n	540m†	0	70	AA79	PC12			
9	MC799P	INV	TP	2	2	RTL	2.6m		.85†	.46†	0.0	3.6	45n	90m†	15*	55	AA9	TO116			
10	MC899P	INV	TP	2	2	RTL	3.0m		.88†	.50†	0.0	3.6	45n	90m†	0	75	AA9	TO116			
11	HEPC2002P-RT	INV	TP	2	1	RTL	15m.	.40	.80†	.50†	0.0	3.6	15n†	90m†	0	75	AA9	TO116			
12	JANM38510/05301ACA	INV	DC	3	2Δ	CMS	280u	.50	10	2.1	0.0	12.5	1.6	255n	6.2m	55	125	AA74	DL98		
13	JANM38510/05301ADA	INV	DC	3	2Δ	CMS	280u	.50	10	2.1	0.0	12.5	1.6	255n	6.2m	55	125	AA74	FP27		
14	JANM38510/05301BAA	INV	DCΔ	3	2	CMS	280u	.50	10	2.1	0.0	12.5	1.6	255n	6.2m	55	125	AA74	FP26		
15	JANM38510/05301BAB	INV	DCΔ	3	2	CMS	280u	.50	10	2.1	0.0	12.5	1.6	255n	6.2m	55	125	AA74	FP26		
16	JANM38510/05301BAC	INV	DCΔ	3	2	CMS	280u	.50	10	2.1	0.0	12.5	1.6	255n	6.2m	55	125	AA74	FP26		
17	JANM38510/05301BCA	INV	DCΔ	3	2	CMS	280u	.50	10	2.1	0.0	12.5	1.6	255n	6.2m	55	125	AA74	DL98		
18	JANM38510/05301BCB	INV	DCΔ	3	2	CMS	280u	.50	10	2.1	0.0	12.5	1.6	255n	6.2m	55	125	AA74	DL98		
19	JANM38510/05301BCC	INV	DCΔ	3	2	CMS	280u	.50	10	2.1	0.0	12.5	1.6	255n	6.2m	55	125	AA74	DL98		
20	JANM38510/05301BDA	INV	DCΔ	3	2	CMS	280u	.50	10	2.1	0.0	12.5	1.6	255n	6.2m	55	125	AA74	DL98		
21	JANM38510/05301CAA	INV	DCΔ	3	2	CMS	280u	.50	10	2.1	0.0	12.5	1.6	255n	6.2m	55	125	AA74	FP27		
22	JANM38510/05301CAB	INV	DCΔ	3	2	CMS	280u	.50	10	2.1	0.0	12.5	1.6	255n	6.2m	55	125	AA74	FP26		
23	JANM38510/05301CAC	INV	DCΔ	3	2	CMS	280u	.50	10	2.1	0.0	12.5	1.6	255n	6.2m	55	125	AA74	FP26		
24	JANM38510/05301CCA	INV	DCΔ	3	2	CMS	280u	.50	10	2.1	0.0	12.5	1.6	255n	6.2m	55	125	AA74	FP26		
25	JANM38510/05301CCB	INV	DCΔ	3	2	CMS	280u	.50	10	2.1	0.0	12.5	1.6	255n	6.2m	55	125	AA74	DL98		
26	JANM38510/05301CCC	INV	DCΔ	3	2	CMS	280u	.50	10	2.1	0.0	12.5	1.6	255n	6.2m	55	125	AA74	DL98		
27	JANM38510/05301CDA	INV	DCΔ	3	2	CMS	280u	.50	10	2.1	0.0	12.5	1.6	255n	6.2m	55	125	AA74	DL98		
28	CD4007AE	INV	DCΔ	3	2	CMS	280u	.50	15	9.95	.05%	0.0	10	3.0 *	50n	500mΔ	40	85	AA74	FP27	
29	CD4007AY	INV	DCΔ	3	1	CMS	1.0m	.50	15	9.95	.05%	0.0	10	3.0 *	50n	500mΔ	40	85	AA74	Δ001AB	
30	CD4007AD	INV	DCΔ	3	1	CMS	1.3m	.50	15	9.95	.05%	0.0	10	3.0 *	40n	500mΔ	55	125	AA74	Δ001AD	
31	CD4007AF	INV	DCΔ	3	1	CMS	1.3m	.50	15	9.95	.05%	0.0	10	3.0 *	40n	500mΔ	55	125	AA74	Δ001AB	
32	CD4007AH	INV	DCΔ	3	1	CMS	1.3m	.50	15	9.95	.05%	0.0	10	3.0 *	40n	500mΔ	55	125	AA74	CH8t	
33	CD4007AK	INV	DCΔ	3	1	CMS	1.3m	.50	15	9.95	.05%	0.0	10	3.0 *	40n	500mΔ	55	125	AA74	Δ004AF	
34	CD4007AD	INV	DCΔ	3	1	CMS	1.3m	.50	15	9.99	.01%	0.0	10	4.5 †	60n	200mΔ	55	125	AA95	DL16j	
35	CD4007AE	INV	DCΔ	3	1	CMS	1.3m	.50	15	9.99	.01%	0.0	10	4.5 †	75n	200mΔ	40	85	AA95	DL16j	
36	HEF4007P	INV	DCΔ	3	1	CMS	2.0m	.50	15	7.0	3.0	0.0	10	4.5	25n	400mΔ	40	85	AA111	DL3e	
37	CD4007UBD	INV	DCΔ	3	1	CMS	3.4m	1.5	18	12	3.0	0.0	15	50n	500mΔ	55	125	AA74	Δ001AD		
38	CD4007UBE	INV	DCΔ	3	1	CMS	3.4m	1.5	18	12	3.0	0.0	15	50n	500mΔ	40	85	AA74	Δ001AB		
39	CD4007UBF	INV	DCΔ	3	1	CMS	3.4m	1.5	18	12	3.0	0.0	15	50n	500mΔ	55	125	AA74	Δ001AB		
40	CD4007UBH	INV	DCΔ	3	1	CMS	3.4m	1.5	18	12	3.0	0.0	15	50n	500mΔ	55	125	AA74	CH8u		
41	CD4007UBK	INV	DCΔ	3	1	CMS	3.4m	1.5	18	12	3.0	0.0	15	50n	500mΔ	55	125	AA74	Δ004AF		
42	TMIA18	INV	TP	3	6	TTL	16m	.40	3.3	.22	0.0	5.0	29n	540m	0	7	AA77	PC11			
43	ZSS54A	INV	OC	3	1	DTL	25m	.55	5.0 Δ	4.0†	.20†	0.0	4.5	550m*	17n	80m†	55	125	AA87	CN9	
44	ZSS54B	INV	RP	3	1	DTL	25m	.55	5.0 Δ	4.0†	.20†	0.0	4.5	550m*	17n	80m†	55	125	AA87	CN9	
45	ZSS84A	INV	OC	3	1	DTL	25m	.55	5.0 Δ	4.0†	.20†	0.0	4.5	550m*	17n	80m†	0	70	AA87	CN9	
46	ZSS84B	INV	RP	3	1	DTL	25m	.55	5.0 Δ	4.0†	.20†	0.0	4.5	550m*	17n	80m†	0	70	AA87	CN9	
47	JANM38510/15301BCA	INV	3S	4	1	TTL	16m	.40	2.0	.80	0.0	5.5	400m	22n	297m	55	125	AA39	DL98		
48	JANM38510/15301BCB	INV	3S	4	1	TTL	16m	.40	2.0	.80	0.0	5.5	400m	22n	297m	55	125	AA39	DL98		
49	JANM38510/15301BDA	INV	3S	4	1	TTL	16m	.40	2.0	.80	0.0	5.5	400m	22n	297m	55	125	AA39	FP27		
50	JANM38510/15301BDB	INV	3S	4	1	TTL	16m	.40	2.0	.80	0.0	5.5	400m	22n	297m	55	125	AA39	FP27		
51	JANM38510/15301CCA	INV	3S	4	1	TTL	16m	.40	2.0	.80	0.0	5.5	400m	22n	297m	55	125	AA39	DL98		
52	JANM38510/15301CCB	INV	3S	4	1	TTL	16m	.40	2.0	.80	0.0	5.5	400m	22n	297m	55	125	AA39	DL98		
53	JANM38510/15301CDA	INV	3S	4	1	TTL	16m	.40	2.0	.80	0.0	5.5	400m	22n	297m	55	125	AA39	FP27		
54	JANM38510/15301CDB	INV	3S	4	1	TTL	16m	.40	2.0	.80	0.0	5.5	400m	22n	297m	55	125	AA39	FP27		
55	MB418	INV	6	1	TTL				2.0	.80	0.0	5.0		60m†	0	70	AA50	DL16g			
56	MB418M	INV	6	1	TTL				2.0	.80	0.0	5.0		60m†	0	70	AA50	DL16f			
57	MB84049	INV	6	1	MOS				9.99	.01%	0.0	10		200m	55	125	AA5	DL17r			
58	MB84049M	INV	6	1	MOS				9.99	.01%	0.0	10		200m	40	85	AA5	DL17q			
59	JANM38510/00108BCC	INV	OC	6	1	TTL	16n	.40	5.5	2.0	.80	0.0	5.5	400m	35n	27m	55	125	AA68	DL98	
60	CM4069B	INV	DCΔ	6	1	CMS	1.8m	.50	10†	0.0†	0.0	10	4.5 †	40n	200mΔ			AA23	DL16j		
61	JANM38510/02005BAA	INV	TP	6	1	TTL	2.0m	.30	2.0	.70	0.0	5.5	400m	99n	16m	55	125	AA69	FP26		
62	JANM38510/02005BAC	INV	TP	6	1	TTL	2.0m	.30	2.0	.70	0.0	5.5	400m	99n	16m	55	125	AA69	FP26		
63	JANM38510/02005BCB	INV	TP	6	1	TTL	2.0m	.30	2.0	.70	0.0	5.5	400m	99n	16m	55	125	AA69	DL98		
64	JANM38510/02005BDA	INV	TP	6	1	TTL	2.0m	.30	2.0	.70	0.0	5.5	400m	99n	16m	55	125	AA69	FP27		
65	JANM38510/02005BDB	INV	TP	6	1	TTL	2.0m	.30	2.0	.70	0.0	5.5	400m	99n	16m	55	125	AA69	FP27		
66	JANM38510/02005CAA	INV	TP	6	1	TTL	2.0m	.30	2.0	.70	0.0	5.5	400m	99n	16m	55	125	AA69	FP26		
67	JANM38510/02005CAC	INV	TP	6	1	TTL	2.0m	.30	2.0	.70	0.0	5.5	400m	99n	16m	55	125	AA69	FP26		
68	JANM38510/02005CCB	INV	TP	6	1	TTL	2.0m	.30	2.0	.70	0.0	5.5	400m	99n	16m	55	125	AA69	FP26		
69	JANM38510/02005CDA	INV	TP	6	1	TTL	2.0m	.30	2.0	.70	0.0	5.5	400m	99n	16m	55	125	AA69	FP27		
70	JANM38510/02005CDB	INV	TP	6	1	TTL	2.0m	.30	2.0	.70	0.0	5.5	400m	99n	16m	55	125	AA69	FP27		
71	SN54L04J	INV	TP	6	1	TTL	2.0m	.30	5.5	2.0	.70	0.0	5.0	1.0 †	60n	15m	55	125	AA4	DL23	
72	SN54L04T	INV	TP	6	1	TTL	2.0m	.30	5.5	2.0	.70	0.0	5.0	1.0 †	60n	15m	55	125	AA4a	TO84	
73	HEF4069P	INV	DC	6	1	CMS	2.0m	.50	15	7.0	3.0	0.0	10	4.5	20n	400mΔ	40	85	AA112	DL3	

2. LOGIC BUFFERS/DRIVERS

IN ORDER OF: (1) BASIC LOGIC (2) CKTS/DEVICE
(3) MIN. OUTPUT CURR. & (4) TYPE NUMBER

LINE No.	TYPE NUMBER	FUNCT. CODE 1 BASIC LOGIC	ORGANIZ. 2 OUTP CONNCKTS PER DEV	LOGIC INPT PER CKT	T E C H N I C A L	MINIMUM OUTPUT CURRENT I (A) @ Vo (V)	MAX. OUTPUT VOLT. (V)	INPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. NOISE IMMUN- ITY (V)	MAX. PROP. DELAY tpd (s)	MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS			
								HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)				(-) (°C)	(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO		
1	JANM38510/05501A	1AEA	DC	6	1	CMS	2.1m	.50									AA65	DL99		
2	JANM38510/05501AFA	1AFA	DC	6	1	CMS	2.1m	.50									AA65	FP28		
3	JANM38510/05501BEA	1BEA	DC	6	1	CMS	2.1m	.50									AA65	DL99		
4	JANM38510/05501BEB	1BEB	DC	6	1	CMS	2.1m	.50									AA65	DL99		
5	JANM38510/05501BEC	1BEC	DC	6	1	CMS	2.1m	.50									AA65	DL99		
6	JANM38510/05501BFA	1BFA	DC	6	1	CMS	2.1m	.50									AA65	FP28		
7	JANM38510/05501BFB	1BFB	DC	6	1	CMS	2.1m	.50									AA65	FP28		
8	JANM38510/05501BFC	1BFC	DC	6	1	CMS	2.1m	.50									AA65	FP28		
9	JANM38510/05501CEA	1CEA	DC	6	1	CMS	2.1m	.50									AA65	DL99		
10	JANM38510/05501CEB	1CEB	DC	6	1	CMS	2.1m	.50									AA65	DL99		
11	JANM38510/05501CEC	1CEC	DC	6	1	CMS	2.1m	.50									AA65	DL99		
12	JANM38510/05501CFA	1CFA	DC	6	1	CMS	2.1m	.50									AA65	FP28		
13	JANM38510/05501CFB	1CFB	DC	6	1	CMS	2.1m	.50									AA65	FP28		
14	JANM38510/05501CFC	1CFC	DC	6	1	CMS	2.1m	.50									AA65	FP28		
15	JANM38510/05503AEA	3AEA	DC	6	1	CMS	2.1m	.50									AA45a	DL99		
16	JANM38510/05503AEB	3AEB	DC	6	1	CMS	2.1m	.50									AA45a	DL99		
17	JANM38510/05503AEC	3AEC	DC	6	1	CMS	2.1m	.50									AA45a	DL99		
18	JANM38510/05503AFA	3AFA	DC	6	1	CMS	2.1m	.50									AA45a	FP28		
19	JANM38510/05503BEA	3BEA	DC	6	1	CMS	2.1m	.50									AA45a	DL99		
20	JANM38510/05503BEB	3BEB	DC	6	1	CMS	2.1m	.50									AA45a	DL99		
21	JANM38510/05503BEC	3BEC	DC	6	1	CMS	2.1m	.50									AA45a	DL99		
22	JANM38510/05503BFA	3BFA	DC	6	1	CMS	2.1m	.50									AA45a	FP28		
23	JANM38510/05503BFB	3BFB	DC	6	1	CMS	2.1m	.50									AA45a	FP28		
24	JANM38510/05503BFC	3BFC	DC	6	1	CMS	2.1m	.50									AA45a	FP28		
25	JANM38510/05503CEA	3CEA	DC	6	1	CMS	2.1m	.50									AA45a	DL99		
26	JANM38510/05503CEB	3CEB	DC	6	1	CMS	2.1m	.50									AA45a	DL99		
27	JANM38510/05503CEC	3CEC	DC	6	1	CMS	2.1m	.50									AA45a	DL99		
28	JANM38510/05503CFA	3CFA	DC	6	1	CMS	2.1m	.50									AA45a	FP28		
29	JANM38510/05503CFB	3CFB	DC	6	1	CMS	2.1m	.50									AA45a	FP28		
30	JANM38510/05503CFC	3CFC	DC	6	1	CMS	2.1m	.50									AA45a	FP28		
31	MC789P	INV	RP	6	1	RTL	2.6m		.85	.46†	0.0	3.6	48n	130m†	15*	55	AA90	TO116		
32	MC789AP	INV	RP	6	1	RTL	2.8m		.85	.46†	0.0	3.6	48n	130m†	15*	55	AA90	TO116		
33	MC889AP	INV	RP	6	1	RTL	2.8m		.88†	.50†	0.0	3.6	48n	130m†	0	75	AA90	TO116		
34	MC889P	INV	RP	6	1	RTL	3.0m		.88†	.50†	0.0	3.6	48n	130m†	0	75	AA90	TO116		
35	MC14069BCL	INV	DC	6	1	CMS	3.0m	1.5	15	11.2	3.75	0.0	15	6.7 †	125n	60u*	40	85	AA23	DL16a
36	MC14069BCP	INV	DC	6	1	CMS	3.0m	1.5	15	11.2	3.75	0.0	15	6.7 †	125n	60u*	40	85	AA23	DL29
37	TF4049AJ	INV	DC	6	1	CMS	3.0m	40	15	3.5	1.0	0.0	5.0	1.0 †	120n	200m†	55	125	AA45	DL25
38	TF4049AN	INV	DC	6	1	CMS	3.0m	40	15	3.5	1.0	0.0	5.0	1.0 †	120n	200m†	55	125	AA45	DL26
39	TP4049AJ	INV	DC	6	1	CMS	3.0m	40	15	3.5	1.0	0.0	5.0	1.0 †	160n	200m†	40	85	AA45	DL25
40	TP4049AN	INV	DC	6	1	CMS	3.0m	40	15	3.5	1.0	0.0	5.0	1.0 †	160n	200m†	40	85	AA45	DL26
41	MC14069BAL	INV	DC	6	1	CMS	3.4m	1.5	15	11.2	3.75	0.0	15	6.7 †	125n	15u*	55	125	AA23	DL16a
42	CD4069UBD	INV	DC	6	1	CMS	3.4m	1.5	18	12	3.0	0.0	15	50n	500m†	55	125	AA23	Δ001AD	
43	CD4069UBE	INV	DC	6	1	CMS	3.4m	1.5	18	12	3.0	0.0	15	50n	500m†	40	85	AA23	Δ001AB	
44	CD4069UBF	INV	DC	6	1	CMS	3.4m	1.5	18	12	3.0	0.0	15	50n	500m†	55	125	AA23	Δ001AB	
45	CD4069UBH	INV	DC	6	1	CMS	3.4m	1.5	18	12	3.0	0.0	15	50n	500m†	55	125	AA23	CH8n	
46	CD4069UBK	INV	DC	6	1	CMS	3.4m	1.5	18	12	3.0	0.0	15	50n	500m†	55	125	AA23	Δ004AF	
47	SN74LO4J	INV	TP	6	1	TTL	3.6m	40	5.5	2.0	.70	0.0	5.0	1.0 †	60n	15m	0	70	AA4	DL23
48	SN74LO4N	INV	TP	6	1	TTL	3.6m	40	5.5	2.0	.70	0.0	5.0	1.0 †	60n	15m	0	70	AA4	DL24
49	54LS04CH	INV	TP	6	1	TTL	4.0m	40		2.0	.70	0.0	5.0	300m*	10n	33m	55	125	AA21	CH7
50	54LS04DM	INV	TP	6	1	TTL	4.0m	40		2.0	.70	0.0	5.0	300m*	10n	33m	55	125	AA21	DL16c
51	54LS04FM	INV	TP	6	1	TTL	4.0m	40		2.0	.70	0.0	5.0	300m*	10n	33m	55	125	AA21	TO86
52	54LS04J	INV	TP	6	1	TTL	4.0m	40		2.0	.70	0.0	5.0	300m*	10n	33m	55	125	AA21	DL16e
53	54LS04W	INV	TP	6	1	TTL	4.0m	40		2.0	.70	0.0	5.0	300m*	10n	33m	55	125	AA21	FP21
54	54LS05DM	INV	OC	6	1	TTL	4.0m	40		2.0	.70	0.0	5.0	300m*	22n	33m	55	125	AA25	DL16c
55	54LS05FM	INV	OC	6	1	TTL	4.0m	40		2.0	.70	0.0	5.0	300m*	22n	33m	55	125	AA25	TO86
56	74LS04DC	INV	TP	6	1	TTL	4.0m	40		2.0	.80	0.0	5.0	300m*	10n	33m	0	75	AA21	DL16c
57	74LS04FC	INV	TP	6	1	TTL	4.0m	40		2.0	.80	0.0	5.0	300m*	10n	33m	0	75	AA21	TO86
58	74LS04PC	INV	TP	6	1	TTL	4.0m	40		2.0	.80	0.0	5.0	300m*	10n	33m	0	75	AA21	DL88
59	74LS05DC	INV	OC	6	1	TTL	4.0m	40		2.0	.80	0.0	5.0	300m*	22n	33m	0	75	AA25	DL16c
60	74LS05FC	INV	OC	6	1	TTL	4.0m	40		2.0	.80	0.0	5.0	300m*	22n	33m	0	75	AA25	TO86
61	74LS05PC	INV	OC	6	1	TTL	4.0m	40		2.0	.80	0.0	5.0	300m*	22n	33m	0	75	AA25	DL88
62	ITT74LS04N	INV	TP	6	1	TTL	4.0m	40		2.0	.80	0.0	5.0	400m*	15n	33m	0	70	AA98	DL3c
63	JANM38510/30003BAA	INV	TP	6	1	TTL	4.0m	40		2.0	.70	0.0	5.5	300m	24n	36m	55	125	AA72	FP26
64	JANM38510/30003BAB	INV	TP	6	1	TTL	4.0m	40		2.0	.70	0.0	5.5	300m	24n	36m	55	125	AA72	FP26
65	JANM38510/30003BAC	INV	TP	6	1	TTL	4.0m	40		2.0	.70	0.0	5.5	300m	24n	36m	55	125	AA72	FP26
66	JANM38510/30003BCA	INV	TP	6	1	TTL	4.0m	40		2.0	.70	0.0	5.5	300m	24n	36m	55	125	AA72	DL98
67	JANM38510/30003BCB	INV	TP	6	1	TTL	4.0m	40		2.0	.70	0.0	5.5	300m	24n	36m	55	125	AA72	DL98
68	JANM38510/30003BCC	INV	TP	6	1	TTL	4.0m	40		2.0	.70	0.0	5.5	300m	24n	36m	55	125	AA72	DL98
69	JANM38510/30003BDA	INV	TP	6	1	TTL	4.0m	40		2.0	.70	0.0	5.5	300m	24n	36m	55	125	AA72	FP27
70	JANM38510/30003BDB	INV	TP	6	1	TTL	4.0m	40		2.0	.70	0.0	5.5	300m	24n	36m	55	125	AA72	FP27
71	JANM38510/30003BDC	INV	TP	6	1	TTL	4.0m	40		2.0	.70	0.0	5.5	300m	24n	36m	55	125	AA72	FP27

2. LOGIC BUFFERS/DRIVERS

IN ORDER OF: (1) BASIC LOGIC (2) CKTS/DEVICE
(3) MIN. OUTPUT CURR. & (4) TYPE NUMBER

LINE No.	TYPE NUMBER	FUNCT. CODE	ORGANIZ.	T	MINIMUM OUTPUT CURRENT	MAX. OUTPUT VOLT.	INPUT LOGIC LEVEL		RATED SUPPLY		MAX. NOISE IMMUN. -ITY (V)	MAX. PROP. DELAY tpd (s)	MAX. OPERATE. PWR. DISS. (W)	OPER. TEMP.		DRAWINGS			
							HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)				(°C)	(°C)	LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO		
1▼	JANM38510/30003CAA INV	TP	6	1	TTL	4.0m	.40	2.0	.70	0.0	5.5	300m	24n	36m	55	125	AA72	FP26	
2▼	JANM38510/30003CAB INV	TP	6	1	TTL	4.0m	.40	2.0	.70	0.0	5.5	300m	24n	36m	55	125	AA72	FP26	
3▼	JANM38510/30003CAC INV	TP	6	1	TTL	4.0m	.40	2.0	.70	0.0	5.5	300m	24n	36m	55	125	AA72	FP26	
4▼	JANM38510/30003CCA INV	TP	6	1	TTL	4.0m	.40	2.0	.70	0.0	5.5	300m	24n	36m	55	125	AA72	DL98	
5	JANM38510/30003CCB INV	TP	6	1	TTL	4.0m	.40	2.0	.70	0.0	5.5	300m	24n	36m	55	125	AA72	DL98	
6▼	JANM38510/30003CCC INV	TP	6	1	TTL	4.0m	.40	2.0	.70	0.0	5.5	300m	24n	36m	55	125	AA72	DL98	
7▼	JANM38510/30003CDA INV	TP	6	1	TTL	4.0m	.40	2.0	.70	0.0	5.5	300m	24n	36m	55	125	AA72	FP27	
8	JANM38510/30003CDB INV	TP	6	1	TTL	4.0m	.40	2.0	.70	0.0	5.5	300m	24n	36m	55	125	AA72	FP27	
9▼	JANM38510/30003CDC INV	TP	6	1	TTL	4.0m	.40	2.0	.70	0.0	5.5	300m	24n	36m	55	125	AA72	FP27	
10#	SFC404LSEM INV	TP	6	1	TTL	4.0m	.40	2.0	.80	0.0	5.0	400m*	15n	33m	55	125	AA4	TO116	
11▼	JANM38510/30004BAA INV	OC	6	1	TTL	4.0m	.40	5.5	2.0	.70	0.0	5.5	300m	60n	36m	55	125	AA73	FP26
12▼	JANM38510/30004BAB INV	OC	6	1	TTL	4.0m	.40	5.5	2.0	.70	0.0	5.5	300m	60n	36m	55	125	AA73	FP26
13▼	JANM38510/30004BAC INV	OC	6	1	TTL	4.0m	.40	5.5	2.0	.70	0.0	5.5	300m	60n	36m	55	125	AA73	FP26
14▼	JANM38510/30004BCA INV	OC	6	1	TTL	4.0m	.40	5.5	2.0	.70	0.0	5.5	300m	60n	36m	55	125	AA73	FP26
15	JANM38510/30004BCB INV	OC	6	1	TTL	4.0m	.40	5.5	2.0	.70	0.0	5.5	300m	60n	36m	55	125	AA73	DL98
16▼	JANM38510/30004BCC INV	OC	6	1	TTL	4.0m	.40	5.5	2.0	.70	0.0	5.5	300m	60n	36m	55	125	AA73	DL98
17▼	JANM38510/30004BDA INV	OC	6	1	TTL	4.0m	.40	5.5	2.0	.70	0.0	5.5	300m	60n	36m	55	125	AA73	DL98
18	JANM38510/30004BDB INV	OC	6	1	TTL	4.0m	.40	5.5	2.0	.70	0.0	5.5	300m	60n	36m	55	125	AA73	FP27
19▼	JANM38510/30004BDC INV	OC	6	1	TTL	4.0m	.40	5.5	2.0	.70	0.0	5.5	300m	60n	36m	55	125	AA73	FP27
20▼	JANM38510/30004CAA INV	OC	6	1	TTL	4.0m	.40	5.5	2.0	.70	0.0	5.5	300m	60n	36m	55	125	AA73	FP27
21▼	JANM38510/30004CAB INV	OC	6	1	TTL	4.0m	.40	5.5	2.0	.70	0.0	5.5	300m	60n	36m	55	125	AA73	FP26
22▼	JANM38510/30004CAC INV	OC	6	1	TTL	4.0m	.40	5.5	2.0	.70	0.0	5.5	300m	60n	36m	55	125	AA73	FP26
23▼	JANM38510/30004CCA INV	OC	6	1	TTL	4.0m	.40	5.5	2.0	.70	0.0	5.5	300m	60n	36m	55	125	AA73	FP26
24	JANM38510/30004CCB INV	OC	6	1	TTL	4.0m	.40	5.5	2.0	.70	0.0	5.5	300m	60n	36m	55	125	AA73	DL98
25▼	JANM38510/30004CCC INV	OC	6	1	TTL	4.0m	.40	5.5	2.0	.70	0.0	5.5	300m	60n	36m	55	125	AA73	DL98
26▼	JANM38510/30004CDA INV	OC	6	1	TTL	4.0m	.40	5.5	2.0	.70	0.0	5.5	300m	60n	36m	55	125	AA73	DL98
27	JANM38510/30004CDB INV	OC	6	1	TTL	4.0m	.40	5.5	2.0	.70	0.0	5.5	300m	60n	36m	55	125	AA73	FP27
28▼	JANM38510/30004CDC INV	OC	6	1	TTL	4.0m	.40	5.5	2.0	.70	0.0	5.5	300m	60n	36m	55	125	AA73	FP27
29	N74LS04A INV	OC	6	1	TTL	4.0m	.40	5.5	2.0	.70	0.0	5.5	300m	60n	36m	55	125	AA73	FP27
30	N74LS04F INV	TP	6	1	TTL	4.0m	.40	5.5	2.0	.80	0.0	5.0	500m	15n	33m	0	70	AA21	DL3a
31	N74LS05A INV	OC	6	1	TTL	4.0m	.40	5.5	2.0	.80	0.0	5.0	500m	32n	330m	0	70	AA25	DL16d
32	N74LS05F INV	OC	6	1	TTL	4.0m	.40	5.5	2.0	.80	0.0	5.0	500m	32n	330m	0	70	AA25	DL16d
33	S54LS04F INV	TP	6	1	TTL	4.0m	.40	5.5	2.0	.70	0.0	5.0	700m	15n	33m	55	125	AA21	DL16d
34	S54LS04W INV	TP	6	1	TTL	4.0m	.40	5.5	2.0	.70	0.0	5.0	700m	15n	33m	55	125	AA21	FP14
35	S54LS05F INV	OC	6	1	TTL	4.0m	.40	5.5	2.0	.70	0.0	5.0	700m	32n	330m	55	125	AA25	DL16d
36	S54LS05W INV	OC	6	1	TTL	4.0m	.40	5.5	2.0	.70	0.0	5.0	700m	32n	330m	55	125	AA25	FP14
37	SN54LS04J INV	TP	6	1	TTL	4.0m	.40	5.5	2.0	.70	0.0	5.0	1.0 t	20n	33m	55	125	AA21	DL23
38	SN54LS04W INV	TP	6	1	TTL	4.0m	.40	5.5	2.0	.70	0.0	5.0	1.0 t	20n	33m	55	125	AA21	Δ004AA
39	SN54LS05J INV	OC	6	1	TTL	4.0m	.40	5.5	2.0	.70	0.0	5.0	1.0 t	32n	33m	55	125	AA25	DL23
40	SN54LS05W INV	OC	6	1	TTL	4.0m	.40	5.5	2.0	.70	0.0	5.0	1.0 t	32n	33m	55	125	AA25	Δ004AA
41	54LS05CH INV	OC	6	1	TTL	4.0m	.40	7.0	2.0	.70	0.0	5.0	300m*	22n	33m	55	125	AA25	CHZ
42	54LS05J INV	OC	6	1	TTL	4.0m	.40	7.0	2.0	.70	0.0	5.0	300m*	22n	33m	55	125	AA25	DL16e
43	54LS05W INV	OC	6	1	TTL	4.0m	.40	7.0	2.0	.70	0.0	5.0	300m*	22n	33m	55	125	AA25	FP21
44#	SFC405LSEM INV	OC	6	1	TTL	4.0m	.40	7.0	2.0	.80	0.0	5.0	400m*	32n	33m	55	125	AA4	TO116
45#	SFC404LSEM INV	TP	6	1	TTL	8.0m	.50	2.0	.80	0.0	5.0	400m*	15n	33m	0	70	AA4	TO116	
46#	SFF24049AEV INV	DC	6	1	CMS	8.0m	.50	9.99	.01%	0.0	10	4.5 t	80n	200m	0	85	AA5	DL47a	
47#	SFF24049AKM INV	OC	6	1	CMS	8.0m	.50	9.99	.01%	0.0	10	4.5 t	80n	200m	0	85	AA5	DL47a	
48	SN54LS366J INV	3S	6	1	TTL	8.0m	.40	5.5	2.0	.70	0.0	5.0	1.0 t	18n	105m	55	125	AA42	DL25
49	SN54LS366W INV	3S	6	1	TTL	8.0m	.40	5.5	2.0	.70	0.0	5.0	1.0 t	18n	105m	55	125	AA42	Δ004AG
50	SN54LS368J INV	3S	6	1	TTL	8.0m	.40	5.5	2.0	.70	0.0	5.0	1.0 t	18n	105m	55	125	AA44	DL25
51	SN54LS368W INV	3S	6	1	TTL	8.0m	.40	5.5	2.0	.70	0.0	5.0	1.0 t	18n	105m	55	125	AA44	Δ004AG
52	SN74LS04J INV	TP	6	1	TTL	8.0m	.50	5.5	2.0	.80	0.0	5.0	1.0 t	20n	33m	0	70	AA21	DL23
53	SN74LS04W INV	TP	6	1	TTL	8.0m	.50	5.5	2.0	.80	0.0	5.0	1.0 t	20n	33m	0	70	AA21	DL24
54	SN74LS05J INV	OC	6	1	TTL	8.0m	.50	5.5	2.0	.80	0.0	5.0	1.0 t	32n	33m	0	70	AA25	DL23
55	SN74LS05N INV	OC	6	1	TTL	8.0m	.50	5.5	2.0	.80	0.0	5.0	1.0 t	32n	33m	0	70	AA25	DL24
56#	SFC405LSE INV	OC	6	1	TTL	8.0m	.50	7.0	2.0	.80	0.0	5.0	400m*	32n	33m	0	70	AA4	TO116
57▼#	MIC937-1D INV	RP	6	1	DTL	10m	.40	1.9	1.1	0.0	5.0	700m*	50n	163m	55	125	AA98	TO116	
58▼#	MIC937-5D INV	RP	6	1	DTL	10m	.50	1.9	1.1	0.0	5.0	600m*	50n	178m	0	75	AA98	TO116	
59▼	MC479F INV	TP	6	1	TTL	10m	.40	5.5	3.0t	.45t	0.0	5.0	20n	90m	0	75	AA50b	TO86	
60▼	MC479L,P% INV	TP	6	1	TTL	10m	.40	5.5	3.0t	.45t	0.0	5.0	20n	90m	0	75	AA50b	TO116	
61▼	MC579F INV	TP	6	1	TTL	10m	.40	5.5	2.8t	.45t	0.0	5.0	20n	90m	55	125	AA50b	TO86	
62▼	MC579L INV	TP	6	1	TTL	10m	.40	5.5	2.8t	.45t	0.0	5.0	20n	90m	55	125	AA50b	TO116	
63#	M5937P INV	RP	6	1	DTL	10m	.40	6.0	3.1	.40%	0.0	5.0	50n	75m	0	75	AA55b	TO116	
64▼	MC689L,P% INV	OC	6	1	DTL	10m	.50	20	8.5t	7.0t	0.0	20	300n	173m	30	75	AA101	TO116	
65▼	MC690L,P% INV	TP	6	1	DTL	10m	.50	20	8.5t	7.0t	0.0	20	300n	173m	30	75	AA102	TO116	
66▼	MC1820L INV	OC	6	1	DTL	10m	.50	30	2.0t	1.1t	0.0	5.0	150n	48m	0	75	AA88c	TO116	
67▼	MC1820P INV	OC	6	1	DTL	10m	.50	30	2.0t	1.1t	0.0	5.0	150n	48m	0	75	AA88c	DL29	
68▼	MC937F INV	RP	6	1	DTL	11m	.40	4.5	2.0t	1.1t	0.0	5.0	60n	126m	55	125	AA88b	TO86	
69▼	MC937L INV	RP	6	1	DTL	11m	.40	4.5	2.0t	1.1t	0.0	5.0	60n	126m	55	125	AA88b	TO116	
70▼	MC837F INV	RP	6	1	DTL	11m	.45	5.0	1.9t	1.1t	0.0	5.0	60n	126m	0	75	AA88b	TO86	
71▼	MC837L INV	RP	6	1	DTL	11m	.45	5.0	1.9t	1.1t	0.0	5.0	60n	126m	0	75	AA88b	TO116	
72▼	MC837P INV	RP	6	1	DTL	11m	.45	5.0	1.9t	1.1t	0.0	5.0	60n	126m	0	75	AA88b	DL29	
73	54LS366DC INV	3S	6	1	TTL	12m	.40	2.0	.80	0.0	5.0	300m*	16n	105m	0	75	AA42	DL17f	
74	54LS366DM INV	3S	6	1	TTL	12m	.40	2.0	.70	0.0	5.0	300m*	16n	105m	55	125	AA42	DL17f	
75	54LS366FC INV	3S	6	1	TTL	12													

2. LOGIC BUFFERS/DRIVERS

IN ORDER OF: (1)BASIC LOGIC (2)KCTS/DEVICE
(3)MIN.OUTPUT CURR. & (4)TYPE NUMBER

LINE No.	4 TYPE NUMBER	FUNCT. CODE 1 BASIC LOGIC	ORGANIZ. 2 OUTP CONN PER DEV	LOGIC 3 INPT PER CKT	T E C H N	MINIMUM OUTPUT CURRENT		MAX. OUTPUT VOLT. (V)	INPUT LOGIC LEVEL		RATED PWR. SUPPLY		MAX. NOISE IMMUN. (V)	MAX. PROP. DELAY tpd (s)	MAX. OPERATE. PWR. DISS. (W)	OPER. TEMP.		DRAWINGS		
						I (A)	@ Vo (V)		HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)				(-) (°C)	(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO	
1	JANM38510/03002BAA	INV	RP	6	1	TTL	12m	.45		1.9	1.1	0.0	5.0	650m	112n	96m	55	125	AA71	FP26
2	JANM38510/03002BAB	INV	RP	6	1	TTL	12m	.45		1.9	1.1	0.0	5.0	650m	112n	96m	55	125	AA71	FP26
3	JANM38510/03002BAC	INV	RP	6	1	TTL	12m	.45		1.9	1.1	0.0	5.0	650m	112n	96m	55	125	AA71	DL98
4	JANM38510/03002BBB	INV	RP	6	1	TTL	12m	.45		1.9	1.1	0.0	5.0	650m	112n	96m	55	125	AA71	FP21b
5	JANM38510/03002BCA	INV	RP	6	1	TTL	12m	.45		1.9	1.1	0.0	5.0	650m	112n	96m	55	125	AA71	DL98
6	JANM38510/03002BCB	INV	RP	6	1	TTL	12m	.45		1.9	1.1	0.0	5.0	650m	112n	96m	55	125	AA71	DL98
7	JANM38510/03002BCC	INV	RP	6	1	TTL	12m	.45		1.9	1.1	0.0	5.0	650m	112n	96m	55	125	AA71	DL98
8	JANM38510/03002CAA	INV	RP	6	1	TTL	12m	.45		1.9	1.1	0.0	5.0	650m	112n	96m	55	125	AA71	FP26
9	JANM38510/03002CAB	INV	RP	6	1	TTL	12m	.45		1.9	1.1	0.0	5.0	650m	112n	96m	55	125	AA71	FP26
10	JANM38510/03002CAC	INV	RP	6	1	TTL	12m	.45		1.9	1.1	0.0	5.0	650m	112n	96m	55	125	AA71	FP26
11	JANM38510/03002CBB	INV	RP	6	1	TTL	12m	.45		1.9	1.1	0.0	5.0	650m	112n	96m	55	125	AA71	FP26
12	JANM38510/03002CCA	INV	RP	6	1	TTL	12m	.45		1.9	1.1	0.0	5.0	650m	112n	96m	55	125	AA71	FP21b
13	JANM38510/03002CCB	INV	RP	6	1	TTL	12m	.45		1.9	1.1	0.0	5.0	650m	112n	96m	55	125	AA71	DL98
14	JANM38510/03002CCC	INV	RP	6	1	TTL	12m	.45		1.9	1.1	0.0	5.0	650m	112n	96m	55	125	AA71	DL98
15	JANM38510/03003BAA	INV	RP	6	1	TTL	12m	.45		1.9	1.1	0.0	5.0	650m	112n	96m	55	125	AA71	DL98
16	JANM38510/03003BAB	INV	RP	6	1	TTL	12m	.45		1.9	1.1	0.0	5.0	650m	112n	96m	55	125	AA71a	FP26
17	JANM38510/03003BAC	INV	RP	6	1	TTL	12m	.45		1.9	1.1	0.0	5.0	650m	112n	96m	55	125	AA71a	FP26
18	JANM38510/03003BBB	INV	RP	6	1	TTL	12m	.45		1.9	1.1	0.0	5.0	650m	112n	96m	55	125	AA71a	FP26
19	JANM38510/03003BCA	INV	RP	6	1	TTL	12m	.45		1.9	1.1	0.0	5.0	650m	112n	96m	55	125	AA71a	FP21b
20	JANM38510/03003BCB	INV	RP	6	1	TTL	12m	.45		1.9	1.1	0.0	5.0	650m	112n	96m	55	125	AA71a	DL98
21	JANM38510/03003BCC	INV	RP	6	1	TTL	12m	.45		1.9	1.1	0.0	5.0	650m	112n	96m	55	125	AA71a	DL98
22	JANM38510/03003CAA	INV	RP	6	1	TTL	12m	.45		1.9	1.1	0.0	5.0	650m	112n	96m	55	125	AA71a	DL98
23	JANM38510/03003CAB	INV	RP	6	1	TTL	12m	.45		1.9	1.1	0.0	5.0	650m	112n	96m	55	125	AA71a	FP26
24	JANM38510/03003CAC	INV	RP	6	1	TTL	12m	.45		1.9	1.1	0.0	5.0	650m	112n	96m	55	125	AA71a	FP26
25	JANM38510/03003CBB	INV	RP	6	1	TTL	12m	.45		1.9	1.1	0.0	5.0	650m	112n	96m	55	125	AA71a	FP26
26	JANM38510/03003CCA	INV	RP	6	1	TTL	12m	.45		1.9	1.1	0.0	5.0	650m	112n	96m	55	125	AA71a	FP21b
27	JANM38510/03003CCB	INV	RP	6	1	TTL	12m	.45		1.9	1.1	0.0	5.0	650m	112n	96m	55	125	AA71a	DL98
28	JANM38510/03003CCC	INV	RP	6	1	TTL	12m	.45		1.9	1.1	0.0	5.0	650m	112n	96m	55	125	AA71a	DL98
29	MIC936-1D	INV	RP	6	1	DTL	12m	.45		1.9	1.1	0.0	5.0	650m	112n	96m	55	125	AA71a	DL98
30	MIC936-5D	INV	RP	6	1	DTL	12m	.45		1.9	1.1	0.0	5.0	700m*	80n	98m	55	125	AA98	TO116
31	MC934F	INV	RP	6	1	DTL	12m	.40	4.5	2.0†	1.1†	0.0	5.0	650m*	80n	120m	0	75	AA98	TO116
32	MC934L	INV	RP	6	1	DTL	12m	.40	4.5	2.0†	1.1†	0.0	5.0	650m*	80n	78m†	55	125	AA88a	TO86
33	MC935F	INV	OC	6	1	DTL	12m	.40	4.5	2.0†	1.1†	0.0	5.0	650m*	80n	78m†	55	125	AA88a	TO116
34	MC935L	INV	OC	6	1	DTL	12m	.40	4.5	2.0†	1.1†	0.0	5.0	650m*	80n	42m†	55	125	AA88c	TO86
35	MC936F	INV	RP	6	1	DTL	12m	.40	4.5	2.0†	1.1†	0.0	5.0	650m*	80n	78m†	55	125	AA88c	TO116
36	MC936L	INV	RP	6	1	DTL	12m	.40	4.5	2.0†	1.1†	0.0	5.0	650m*	80n	78m†	55	125	AA88c	TO86
37	MC940F	INV	RP	6	1	DTL	12m	.40	4.5	2.6%	.40	0.0	5.0	650m*	80n	66m†	55	125	AA89	TO116
38	MC940L	INV	RP	6	1	DTL	12m	.40	4.5	2.6%	.40	0.0	5.0	650m*	80n	66m†	55	125	AA89	TO86
39	MC941F	INV	OC	6	1	DTL	12m	.40	4.5		.40%	0.0	5.0	650m*	80n	42m†	55	125	AA89a	TO86
40	MC941L	INV	OC	6	1	DTL	12m	.40	4.5		.40%	0.0	5.0	650m*	80n	42m†	55	125	AA89a	TO116
41	MC834F	INV	RP	6	1	DTL	12m	.45	5.0	1.9†	1.1†	0.0	5.0	650m*	80n	78m†	0	75	AA88a	TO86
42	MC834L	INV	RP	6	1	DTL	12m	.45	5.0	1.9†	1.1†	0.0	5.0	650m*	80n	78m†	0	75	AA88a	TO116
43	MC834P	INV	RP	6	1	DTL	12m	.45	5.0	1.9†	1.1†	0.0	5.0	650m*	80n	78m†	0	75	AA88a	DL29
44	MC835F	INV	OC	6	1	DTL	12m	.45	5.0	1.9†	1.1†	0.0	5.0	650m*	80n	42m†	0	75	AA88c	TO86
45	MC835L	INV	OC	6	1	DTL	12m	.45	5.0	1.9†	1.1†	0.0	5.0	650m*	80n	42m†	0	75	AA88c	TO116
46	MC835P	INV	OC	6	1	DTL	12m	.45	5.0	1.9†	1.1†	0.0	5.0	650m*	80n	42m†	0	75	AA88c	DL29
47	MC836F	INV	RP	6	1	DTL	12m	.45	5.0	1.9†	1.1†	0.0	5.0	650m*	80n	78m†	0	75	AA88c	TO86
48	MC836L	INV	RP	6	1	DTL	12m	.45	5.0	1.9†	1.1†	0.0	5.0	650m*	80n	78m†	0	75	AA88c	TO116
49	MC836P	INV	RP	6	1	DTL	12m	.45	5.0	1.9†	1.1†	0.0	5.0	650m*	80n	78m†	0	75	AA88c	DL29
50	MC840F	INV	RP	6	1	DTL	12m	.45	5.0	2.6%	.45	0.0	5.0	650m*	80n	66m†	0	75	AA89	TO86
51	MC840L	INV	RP	6	1	DTL	12m	.45	5.0	2.6%	.45	0.0	5.0	650m*	80n	66m†	0	75	AA89	TO116
52	MC840P	INV	RP	6	1	DTL	12m	.45	5.0	2.6%	.45	0.0	5.0	650m*	80n	66m†	0	75	AA89	DL29
53	MC841F	INV	OC	6	1	DTL	12m	.45	5.0		.45%	0.0	5.0	650m*	80n	42m†	0	75	AA89a	TO86
54	MC841L	INV	OC	6	1	DTL	12m	.45	5.0		.45%	0.0	5.0	650m*	80n	42m†	0	75	AA89a	TO116
55	MC841P	INV	OC	6	1	DTL	12m	.45	5.0		.45%	0.0	5.0	650m*	80n	42m†	0	75	AA89a	DL29
56	MC2016F	INV	TP	6	1	TTL	12m	.40	5.5	2.9†	.45	0.0	5.0	650m*	10n	132m†	0	75	AA103	TO86
57	MC2016L,P%	INV	TP	6	1	TTL	12m	.40	5.5	2.9†	.45	0.0	5.0	650m*	10n	132m†	0	75	AA103	TO116
58	MC2066F	INV	TP	6	1	TTL	12m	.40	5.5	2.9†	.45	0.0	5.0	650m*	10n	132m†	0	75	AA103	TO86
59	MC2066L,P%	INV	TP	6	1	TTL	12m	.40	5.5	2.9†	.45	0.0	5.0	650m*	10n	132m†	0	75	AA103	TO116
60	MC2116F	INV	TP	6	1	TTL	12m	.40	5.5	2.7†	.45	0.0	5.0	650m*	10n	132m†	55	125	AA103	TO86
61	MC2116L	INV	TP	6	1	TTL	12m	.40	5.5	2.7†	.45	0.0	5.0	650m*	10n	132m†	55	125	AA103	TO116
62	MC2166F	INV	TP	6	1	TTL	12m	.40	5.5	2.7†	.45	0.0	5.0	650m*	10n	132m†	55	125	AA103	TO86
63	MC2166L	INV	TP	6	1	TTL	12m	.40	5.5	2.7†	.45	0.0	5.0	650m*	10n	132m†	55	125	AA103	TO116
64	M5935P	INV	RP	6	1	DTL	12m	.40	6.0	2.6	.40%	0.0	5.0	650m*	80n	51m†	0	75	AA55a	TO116
65	M5936P	INV	RP	6	1	DTL	12m	.40	6.0	2.6	.40%	0.0	5.0	650m*	80n	51m†	0	75	AA55a	TO116
66	MC697	INV	RP	6	1	TTL	12m	1.5	12	8.5†	6.5†	0.0	15	650m*	125n†	246m†	30	75	AA51	TO116
67	MC680L,P%	INV	TP	6	1	DTL	12m	1.5	16	8.5†	6.5†	0.0	15	650m*	200n	246m†	30	75	AA99	TO116
68	MC681L,P%	INV	OC	6	1	DTL	12m	1.5	16	8.5†	6.5†	0.0	15	650m*	250n	192m†	30	75	AA99	TO116
69	GBF7404D	INV	TP	6	1	TTL	16m	.40		2.0	.80	0.0	5.0	400m	22n	165m	0	70	AA4	DL45d
70	HEPC3004P-RT	INV	TP	6	1	TTL	16m	.40		2.4†	.40†	0.0	5.0	400m	29n	60m†	0	70	AA50	TO116
71	J5FC404	INV	TP	6	1	TTL	16m	.40		2.0	.80	0.0	5.0	400m	2					

2. LOGIC BUFFERS/DRIVERS

IN ORDER OF: (1) BASIC LOGIC (2) CKTS/DEVICE (3) MIN. OUTPUT CURR. & (4) TYPE NUMBER

LINE No.	TYPE NUMBER	FUNCT. CODE BASIC LOGIC	ORGANIZ. CONN	LOGIC CKTS	INPT PER DEV	T E C H N	MINIMUM OUTPUT CURRENT I @ V _o (A)	MAX. OUTPUT VOLT. (V)	INPUT LOGIC LEVEL		RATED SUPPLY		MAX. NOISE IMMUNITY (V)	MAX. PROP. DELAY t _{pd} (s)	MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS	
									HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)				(-) (°C)	(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No.
1	JANM38510/00105BCB	INV	TP	6	1	TTL	16m	.40	2.0	.80	0.0	5.5	400m	27n	27m	55	125	AA67	DL98
2	JANM38510/00105BCC	INV	TP	6	1	TTL	16m	.40	2.0	.80	0.0	5.5	400m	27n	27m	55	125	AA67	DL98
3v	JANM38510/00105BDA	INV	TP	6	1	TTL	16m	.40	2.0	.80	0.0	5.5	400m	27n	27m	55	125	AA67	FP27
4	JANM38510/00105BDB	INV	TP	6	1	TTL	16m	.40	2.0	.80	0.0	5.5	400m	27n	27m	55	125	AA67	FP27
5	JANM38510/00105CAA	INV	TP	6	1	TTL	16m	.40	2.0	.80	0.0	5.5	400m	27n	27m	55	125	AA67	FP26
6	JANM38510/00105CAB	INV	TP	6	1	TTL	16m	.40	2.0	.80	0.0	5.5	400m	27n	27m	55	125	AA67	FP26
7	JANM38510/00105CAC	INV	TP	6	1	TTL	16m	.40	2.0	.80	0.0	5.5	400m	27n	27m	55	125	AA67	FP26
8v	JANM38510/00105CBB	INV	TP	6	1	TTL	16m	.40	2.0	.80	0.0	5.5	400m	27n	27m	55	125	AA67	FP21b
9	JANM38510/00105CCA	INV	TP	6	1	TTL	16m	.40	2.0	.80	0.0	5.5	400m	27n	27m	55	125	AA67	DL98
10	JANM38510/00105CCB	INV	TP	6	1	TTL	16m	.40	2.0	.80	0.0	5.5	400m	27n	27m	55	125	AA67	DL98
11	JANM38510/00105CCC	INV	TP	6	1	TTL	16m	.40	2.0	.80	0.0	5.5	400m	27n	27m	55	125	AA67	DL98
12v	JANM38510/00105CDA	INV	TP	6	1	TTL	16m	.40	2.0	.80	0.0	5.5	400m	27n	27m	55	125	AA67	FP27
13	JANM38510/00105CDB	INV	TP	6	1	TTL	16m	.40	2.0	.80	0.0	5.5	400m	27n	27m	55	125	AA67	FP27
14v	MC5404F	INV	TP	6	1	TTL	16m	.40	2.4	.40	0.0	5.0	400m	22n	60m	55	125	AA50a	TO86
15v	MC5404L	INV	TP	6	1	TTL	16m	.40	2.4	.40	0.0	5.0	400m	22n	60m	55	125	AA50	TO116
16v	MC5405F	INV	OC	6	1	TTL	16m	.40	2.4	.40	0.0	5.0	400m	55n	60m	55	125	AA93	TO86
17v	MC5405L	INV	OC	6	1	TTL	16m	.40	2.4	.40	0.0	5.0	400m	55n	60m	55	125	AA93a	TO116
18v	MC7404F	INV	TP	6	1	TTL	16m	.40	2.4	.40	0.0	5.0	400m	22n	60m	0	70	AA50a	TO86
19v	MC7404L	INV	TP	6	1	TTL	16m	.40	2.4	.40	0.0	5.0	400m	22n	60m	0	70	AA50	TO116
20v	MC7404P	INV	TP	6	1	TTL	16m	.40	2.4	.40	0.0	5.0	400m	22n	60m	0	70	AA50	TO116
21v	MC7405F	INV	OC	6	1	TTL	16m	.40	2.4	.40	0.0	5.0	400m	55n	60m	0	70	AA93	TO86
22v	MC7405L	INV	OC	6	1	TTL	16m	.40	2.4	.40	0.0	5.0	400m	55n	60m	0	70	AA93a	TO116
23v	MC7405P	INV	OC	6	1	TTL	16m	.40	2.4	.40	0.0	5.0	400m	55n	60m	0	70	AA93a	TO116
24#	SFC404E	INV	TP	6	1	TTL	16m	.40	2.0	.80	0.0	5.0	400m*	23n	165m	55	125	AA50	TO116
25#	SFC404EM	INV	TP	6	1	TTL	16m	.40	2.0	.80	0.0	5.0	400m*	23n	165m	55	125	AA50	TO116
26#	SFC404ET	INV	TP	6	1	TTL	16m	.40	2.0	.80	0.0	5.0	400m*	23n	165m	25	85	AA50	TO116
27#	SFC404JM	INV	TP	6	1	TTL	16m	.40	2.0	.80	0.0	5.0	400m*	23n	165m	55	125	AA50	TO116
28#	SFC404KM	INV	TP	6	1	TTL	16m	.40	2.0	.80	0.0	5.0	400m*	23n	165m	55	125	AA50	TO116
29#	SFC404PM	INV	TP	6	1	TTL	16m	.40	2.0	.80	0.0	5.0	400m*	23n	165m	55	125	AA20a	TO116
30#	TL7406N	INV	OC	6	1	TTL	16m	.40	2.0	.80	0.0	5.0	1.0	23n	255m	0	70	AA27	DL1
31#	uPB7404C	INV	TP	6	1	TTL	16m	.40	2.0	.80	0.0	5.0	1.0	23n	165m	0	70	AA4	A001AA
32#	SN5406W	INV	OC	6	1	TTL	16m	.40	2.0	.80	0.0	5.0	1.0	23n	255m	55	125	AA27	A004AA
33#	SN7406J	INV	OC	6	1	TTL	16m	.40	5.0	2.0	0.0	5.0	1.0	23n	255m	0	70	AA27	DL23
34#	SN7406N	INV	OC	6	1	TTL	16m	.40	5.0	2.0	0.0	5.0	1.0	23n	255m	0	70	AA27	DL24
35#	M53204P	INV	TP	6	1	TTL	16m	.40	5.2	2.4	40%	5.0	22n	110m	0	75	AA4	TO116	
36#	M53205P	INV	OC	6	1	TTL	16m	.40	5.2	40%	5.0	5.0	55n	165m	0	75	AA24	TO116	
37#	GF87405D	INV	OC	6	1	TTL	16m	.40	5.5	2.0	0.0	5.0	400m	55n	165m	0	70	AA24	DL45d
38v	ITT5404J	INV	TP	6	1	TTL	16m	.40	5.5	2.0	0.0	5.0	400m*	22n	165m	55	125	AA98	DL3c
39v	ITT5405J	INV	OC	6	1	TTL	16m	.40	5.5	2.0	0.0	5.0	400m*	55n	165m	55	125	AA98	DL3d
40v	ITT7404J	INV	TP	6	1	TTL	16m	.40	5.5	2.0	0.0	5.0	400m*	22n	165m	0	75	AA98	DL3d
41v	ITT7404N	INV	TP	6	1	TTL	16m	.40	5.5	2.0	0.0	5.0	400m*	22n	165m	0	75	AA98	DL3c
42v	ITT7405J	INV	OC	6	1	TTL	16m	.40	5.5	2.0	0.0	5.0	400m*	55n	165m	0	75	AA98	DL3d
43v	ITT7405N	INV	OC	6	1	TTL	16m	.40	5.5	2.0	0.0	5.0	400m*	55n	165m	0	75	AA98	DL3c
44	JANM38510/00108BAA	INV	OC	6	1	TTL	16m	.40	5.5	2.0	0.0	5.5	400m	35n	27m	55	125	AA68	FP26
45	JANM38510/00108BAB	INV	OC	6	1	TTL	16m	.40	5.5	2.0	0.0	5.5	400m	35n	27m	55	125	AA68	FP26
46	JANM38510/00108BAC	INV	OC	6	1	TTL	16m	.40	5.5	2.0	0.0	5.5	400m	35n	27m	55	125	AA68	FP26
47v	JANM38510/00108BBB	INV	OC	6	1	TTL	16m	.40	5.5	2.0	0.0	5.5	400m	35n	27m	55	125	AA67	FP21b
48	JANM38510/00108BCA	INV	OC	6	1	TTL	16m	.40	5.5	2.0	0.0	5.5	400m	35n	27m	55	125	AA68	DL98
49	JANM38510/00108BCB	INV	OC	6	1	TTL	16m	.40	5.5	2.0	0.0	5.5	400m	35n	27m	55	125	AA68	DL98
50v	JANM38510/00108BDA	INV	OC	6	1	TTL	16m	.40	5.5	2.0	0.0	5.5	400m	35n	27m	55	125	AA67	FP27
51	JANM38510/00108BDB	INV	OC	6	1	TTL	16m	.40	5.5	2.0	0.0	5.5	400m	35n	27m	55	125	AA68	FP27
52	JANM38510/00108CAA	INV	OC	6	1	TTL	16m	.40	5.5	2.0	0.0	5.5	400m	35n	27m	55	125	AA68	FP26
53	JANM38510/00108CAB	INV	OC	6	1	TTL	16m	.40	5.5	2.0	0.0	5.5	400m	35n	27m	55	125	AA68	FP26
54	JANM38510/00108CAC	INV	OC	6	1	TTL	16m	.40	5.5	2.0	0.0	5.5	400m	35n	27m	55	125	AA68	FP26
55v	JANM38510/00108CBB	INV	OC	6	1	TTL	16m	.40	5.5	2.0	0.0	5.5	400m	35n	27m	55	125	AA67	FP21b
56	JANM38510/00108CCA	INV	OC	6	1	TTL	16m	.40	5.5	2.0	0.0	5.5	400m	35n	27m	55	125	AA68	DL98
57	JANM38510/00108CCB	INV	OC	6	1	TTL	16m	.40	5.5	2.0	0.0	5.5	400m	35n	27m	55	125	AA68	DL98
58	JANM38510/00108CCC	INV	OC	6	1	TTL	16m	.40	5.5	2.0	0.0	5.5	400m	35n	27m	55	125	AA68	DL98
59v	JANM38510/00108CDA	INV	OC	6	1	TTL	16m	.40	5.5	2.0	0.0	5.5	400m	35n	27m	55	125	AA67	FP27
60	JANM38510/00108CDB	INV	OC	6	1	TTL	16m	.40	5.5	2.0	0.0	5.5	400m	35n	27m	55	125	AA68	FP27
61#	MIC5404J	INV	TP	6	1	TTL	16m	.40	5.5	2.0	0.0	5.0	400m	22n	165m	55	125	AA4	DL59a
62#	MIC5405J	INV	OC	6	1	TTL	16m	.40	5.5	2.0	0.0	5.0	400m	55n	165m	55	125	AA24	DL59a
63#	MIC7404J	INV	TP	6	1	TTL	16m	.40	5.5	2.0	0.0	5.0	400m	22n	165m	0	75	AA4	DL59a
64#	MIC7404N	INV	TP	6	1	TTL	16m	.40	5.5	2.0	0.0	5.0	400m	22n	165m	0	75	AA4	DL24c
65#	MIC7405J	INV	OC	6	1	TTL	16m	.40	5.5	2.0	0.0	5.0	400m	55n	165m	0	75	AA24	DL59a
66#	MIC7405N	INV	OC	6	1	TTL	16m	.40	5.5	2.0	0.0	5.0	400m	55n	165m	0	75	AA24	DL24c
67	N7404A	INV	TP	6	1	TTL	16m	.40	5.5	2.0	0.0	5.0	400m	22n	165m	0	70	AA4	DL3a
68	N7404F	INV	TP	6	1	TTL	16m	.40	5.5	2.0	0.0	5.0	400m	22n	165m	0	70	AA4	DL16d
69	N7405A	INV	OC	6	1	TTL	16m	.40	5.5	2.0	0.0	5.0	400m	55n	165m	0	70	AA24	DL3a
70	N7405F	INV	OC	6	1	TTL	16m	.40	5.5	2.0	0.0	5.0	400m	55n	165m	0	70	AA24	DL16d
71	S5404F	INV	TP	6	1	TTL	16m	.40	5.5	2.0	0.0	5.0	400m	22n	165m	55	125	AA4	DL16d
72	S5404W	INV	TP	6	1	TTL	16m	.40	5.5	2.0	0.0	5.0	400m	22n	165m	55	125	AA4a	FP14
73	S5405F	INV	OC	6	1	TTL	16m	.40	5.5	2.0	0.0	5.0	400m	55n	165m	55	125	AA24	DL16d
74	S5405W	INV	OC	6	1	TTL	16m	.40	5.5	2.0	0.0	5.0	400m	55n	165m	55	125	AA24a	

2. LOGIC BUFFERS/DRIVERS

IN ORDER OF: (1)BASIC LOGIC (2)CKTS/DEVICE
(3)MIN.OUTPUT CURR. & (4)TYPE NUMBER

LINE No.	TYPE NUMBER	FUNCT. CODE		ORGANIZ. CTKS PER DEV	LOGIC INPT PER CKT	T E C H N I C A L	MINIMUM OUTPUT CURRENT		MAX. OUTPUT VOLT. (V)	INPUT LOGIC LEVEL		RATED SUPPLY		MAX. NOISE IMMUN. (V)	MAX. PROP. DELAY tpd (s)	MAX. OPERATE. PWR. DISS. (W)	OPER. TEMP.		DRAWINGS			
		1 BASIC LOGIC	2 OUTP CONN				3 TTL	4 CMOS		5 (A)	6 @ V _o (V)	7 (min) (V)	8 (max) (V)				9 NEG. (V)	10 POS. (V)	11 (°C)	12 (°C)	13 LOGIC DWG. No.	14 OUTLINE DWG. No. Δ=MO
1	SN74LS366J	INV	3S	6	1	TTL	16m	50	5.5	2.0	.80	0.0	5.0	1.0	18n	105m	0	70	AA42	DL25		
2	SN74LS366N	INV	3S	6	1	TTL	16m	50	5.5	2.0	.80	0.0	5.0	1.0	18n	105m	0	70	AA42	DL26		
3	SN74LS368J	INV	3S	6	1	TTL	16m	50	5.5	2.0	.80	0.0	5.0	1.0	18n	105m	0	70	AA44	DL25		
4	SN74LS368N	INV	3S	6	1	TTL	16m	50	5.5	2.0	.80	0.0	5.0	1.0	18n	105m	0	70	AA44	DL26		
5	SN5404J	INV	TP	6	1	TTL	16m	40	5.5	2.0	.80	0.0	5.0	1.0	22n	165m	55	125	AA4	DL23		
6	SN5404W	INV	TP	6	1	TTL	16m	40	5.5	2.0	.80	0.0	5.0	1.0	22n	165m	55	125	AA4a	Δ004AA		
7	SN5405J	INV	OC	6	1	TTL	16m	40	5.5	2.0	.80	0.0	5.0	1.0	22n	165m	55	125	AA24	DL23		
8	SN5405W	INV	OC	6	1	TTL	16m	40	5.5	2.0	.80	0.0	5.0	1.0	22n	165m	55	125	AA24a	Δ004AA		
9	SN5406J	INV	OC	6	1	TTL	16m	40	5.5	2.0	.80	0.0	5.0	1.0	23n	255m	55	125	AA27	DL23		
10	SN5416J	INV	OC	6	1	TTL	16m	40	5.5	2.0	.80	0.0	5.0	1.0	23n	255m	55	125	AA27	Δ004AA		
11	SN5416W	INV	OC	6	1	TTL	16m	40	5.5	2.0	.80	0.0	5.0	1.0	23n	255m	55	125	AA27	Δ004AA		
12	SN7404J	INV	TP	6	1	TTL	16m	40	5.5	2.0	.80	0.0	5.0	1.0	22n	165m	0	70	AA4	DL23		
13	SN7404N	INV	TP	6	1	TTL	16m	40	5.5	2.0	.80	0.0	5.0	1.0	22n	165m	0	70	AA4	DL24		
14	SN7405J	INV	OC	6	1	TTL	16m	40	5.5	2.0	.80	0.0	5.0	1.0	22n	165m	0	70	AA4	DL23		
15	SN7405N	INV	OC	6	1	TTL	16m	40	5.5	2.0	.80	0.0	5.0	1.0	22n	165m	0	70	AA4	DL24		
16	SN7416J	INV	OC	6	1	TTL	16m	40	5.5	2.0	.80	0.0	5.0	1.0	23n	255m	0	70	AA27	DL23		
17	SN7416N	INV	OC	6	1	TTL	16m	40	5.5	2.0	.80	0.0	5.0	1.0	23n	255m	0	70	AA27	DL24		
18	SN29016J	INV	OC	6	1	TTL	16m	45	5.5	1.8	.85	0.0	5.0	1.0	15n	27m	0	75	AA4	DL23		
19	SN29016N	INV	TP	6	1	TTL	16m	45	5.5	1.8	.85	0.0	5.0	1.0	15n	27m	0	75	AA4	DL24		
20#	TL7404N	INV	TP	6	1	TTL	16m	40	5.5	2.0	.80	0.0	5.0	1.0	22n	165m	0	70	AA4	DL23		
21#	TL7405N	INV	OC	6	1	TTL	16m	40	5.5	2.0	.80	0.0	5.0	1.0	22n	165m	0	70	AA4	DL23		
22#	TL7416N	INV	OC	6	1	TTL	16m	40	5.5	2.0	.80	0.0	5.0	1.0	23n	255m	0	70	AA27	DL23		
23#	uPB7405C	INV	OC	6	1	TTL	16m	40	5.5	2.0	.80	0.0	5.0	1.0	23n	165m	0	75	AA24	Δ001AA		
24#	M53206P	INV	RF	6	1	TTL	16m	40	7.0	2.0	.80	0.0	5.0	1.0	23n	255m	0	75	AA27	TO116		
25#	M53216P	INV	OC	6	1	TTL	16m	40	7.0	2.0	.80	0.0	5.0	1.0	23n	255m	0	75	AA27	TO116		
26#	ZN5404E	INV	TP	6	1	TTL	16m	40	7.0	2.0	.80	0.0	5.0	400m*	29n	90m†	55	125	AA4	DL3b		
27#	ZN5404F	INV	TP	6	1	TTL	16m	40	7.0	2.0	.80	0.0	5.0	400m*	29n	90m†	55	125	AA4	TO86		
28#	ZN5405E	INV	OC	6	1	TTL	16m	40	7.0	2.0	.80	0.0	5.0	400m*	29n	90m†	55	125	AA4	DL3b		
29#	ZN5405F	INV	OC	6	1	TTL	16m	40	7.0	2.0	.80	0.0	5.0	400m*	29n	90m†	55	125	AA4	TO86		
30#	ZN7404E	INV	TP	6	1	TTL	16m	40	7.0	2.0	.80	0.0	5.0	400m*	29n	90m†	0	70	AA4	DL3b		
31#	ZN7404F	INV	TP	6	1	TTL	16m	40	7.0	2.0	.80	0.0	5.0	400m*	29n	90m†	0	70	AA4	TO86		
32#	ZN7405E	INV	OC	6	1	TTL	16m	40	7.0	2.0	.80	0.0	5.0	400m*	29n	90m†	0	70	AA4	DL3b		
33#	ZN7405F	INV	OC	6	1	TTL	16m	40	7.0	2.0	.80	0.0	5.0	400m*	29n	90m†	0	70	AA4	TO86		
34▼	MC5416L	INV	OC	6	1	TTL	16m	40	15	2.41	.401	0.0	5.0	26n	105m†	55	125	AA62	TO116			
35▼	MC7416L	INV	OC	6	1	TTL	16m	40	15	2.41	.401	0.0	5.0	26n	105m†	0	70	AA62	TO116			
36▼	MC7416P	INV	OC	6	1	TTL	16m	40	15	2.41	.401	0.0	5.0	26n	105m†	0	70	AA62	TO116			
37	MC14502BCL	INV	3S	6	1	CMS	16m	1.5	15	11.0	4.0	0.0	15	2.5 *	190n	240u*	40	85	AA7	DL17a		
38	MC14502BCP	INV	3S	6	1	CMS	16m	1.5	15	11.0	4.0	0.0	15	2.5 *	190n	240u*	40	85	AA7	DL30		
39#	MIC5405AJ	INV	OC	6	1	TTL	16m	40	15	2.0	.80	0.0	5.0	400m	55n	165m	55	125	AA24	DL59a		
40#	MIC5416J	INV	OC	6	1	TTL	16m	40	15	2.0	.80	0.0	5.0	400m	23n	210m	55	125	AA27	DL59a		
41#	MIC7405AJ	INV	OC	6	1	TTL	16m	40	15	2.0	.80	0.0	5.0	400m	55n	165m	0	75	AA24	DL59a		
42#	MIC7405AN	INV	OC	6	1	TTL	16m	40	15	2.0	.80	0.0	5.0	400m	55n	165m	0	75	AA24	DL24c		
43#	MIC7416J	INV	OC	6	1	TTL	16m	40	15	2.0	.80	0.0	5.0	400m	23n	210m	0	75	AA27	DL59a		
44#	MIC7416N	INV	OC	6	1	TTL	16m	40	15	2.0	.80	0.0	5.0	400m	23n	210m	0	75	AA27	DL24c		
45	RSN5404H	INV	TP	6	1	TTL	16m	40	15	2.0	.80	0.0	5.0	1.0 †	18n	105m†	55	125	AA20a	FP4		
46▼	MC5406L	INV	OC	6	1	TTL	16m	40	30	2.41	.401	0.0	5.0	26n	105m†	55	125	AA62	TO116			
47▼	MC7406L	INV	OC	6	1	TTL	16m	40	30	2.41	.401	0.0	5.0	26n	105m†	0	70	AA62	TO116			
48▼	MC7406P	INV	OC	6	1	TTL	16m	40	30	2.41	.401	0.0	5.0	26n	105m†	0	70	AA62	TO116			
49#	MIC5406J	INV	OC	6	1	TTL	16m	40	30	2.0	.80	0.0	5.0	400m	23n	210m	55	125	AA27	DL59a		
50#	MIC7406J	INV	OC	6	1	TTL	16m	40	30	2.0	.80	0.0	5.0	400m	23n	210m	0	75	AA27	DL59a		
51#	MIC7406N	INV	OC	6	1	TTL	16m	40	30	2.0	.80	0.0	5.0	400m	23n	210m	0	75	AA27	DL24c		
52▼	8T93A	INV	TP	6	1	TTL	20m	50		2.0	.80	0.0	5.0	5.0n†	270m	0	75	AA38	DL3a			
53▼	8T93F	INV	TP	6	1	TTL	20m	50		2.0	.80	0.0	5.0	5.0n†	270m	0	75	AA38	DL16d			
54▼	8T94A	INV	OC	6	1	TTL	20m	50		2.0	.80	0.0	5.0	6.0n†	270m	0	75	AA38	DL3a			
55▼	8T94F	INV	OC	6	1	TTL	20m	50		2.0	.80	0.0	5.0	6.0n†	270m	0	75	AA38	DL16d			
56	JANM38510/02305BAA	INV	TP	6	1	TTL	20m	40		2.0	.80	0.0	5.5	400m	16n	55m	55	125	AA70	FP26		
57	JANM38510/02305BAB	INV	TP	6	1	TTL	20m	40		2.0	.80	0.0	5.5	400m	16n	55m	55	125	AA70	FP26		
58	JANM38510/02305BAC	INV	TP	6	1	TTL	20m	40		2.0	.80	0.0	5.5	400m	16n	55m	55	125	AA70	FP26		
59▼	JANM38510/02305BBB	INV	TP	6	1	TTL	20m	40		2.0	.80	0.0	5.5	400m	16n	55m	55	125	AA70	FP26		
60	JANM38510/02305BCA	INV	TP	6	1	TTL	20m	40		2.0	.80	0.0	5.5	400m	16n	55m	55	125	AA70	FP21b		
61	JANM38510/02305BCB	INV	TP	6	1	TTL	20m	40		2.0	.80	0.0	5.5	400m	16n	55m	55	125	AA70	DL98		
62	JANM38510/02305BCC	INV	TP	6	1	TTL	20m	40		2.0	.80	0.0	5.5	400m	16n	55m	55	125	AA70	DL98		
63▼	JANM38510/02305BDA	INV	TP	6	1	TTL	20m	40		2.0	.80	0.0	5.5	400m	16n	55m	55	125	AA70	DL98		
64	JANM38510/02305BDB	INV	TP	6	1	TTL	20m	40		2.0	.80	0.0	5.5	400m	16n	55m	55	125	AA70	FP27		
65	JANM38510/02305CAA	INV	TP	6	1	TTL	20m	40		2.0	.80	0.0	5.5	400m	16n	55m	55	125	AA70	FP27		
66	JANM38510/02305CAB	INV	TP	6	1	TTL	20m	40		2.0	.80	0.0	5.5	400m	16n	55m	55	125	AA70	FP26		
67	JANM38510/02305CAC	INV	TP	6	1	TTL	20m	40		2.0	.80	0.0	5.5	400m	16n	55m	55	125	AA70	FP26		
68▼	JANM38510/02305CBB	INV	TP	6	1	TTL	20m	40		2.0	.80	0.0	5.5	400m	16n	55m	55	125	AA70	FP26		
69	JANM38510/02305CCA	INV	TP	6	1	TTL	20m	40		2.0	.80	0.0	5.5	400m	16n	55m	55	125	AA70	FP21b		
70	JANM38510/02305CCB	INV	TP	6	1	TTL	20m	40		2.0	.80	0.0	5.5	400m	16n	55m	55	125	AA70	DL98		
71	JANM38510/02305CCC	INV	TP	6	1	TTL	20m	40		2.0	.80	0.0	5.5	400m	16n	55m	55	125	AA70	DL98		
72▼	JANM38510/02305CDA	INV	TP	6	1	TTL	20m	40		2.0	.80	0.0	5.5	400m								

2. LOGIC BUFFERS/DRIVERS

IN ORDER OF: (1) BASIC LOGIC (2) CKTS/DEVICE
(3) MIN. OUTPUT CURR. & (4) TYPE NUMBER

LINE No.	TYPE NUMBER	FUNCT. CODE		ORGANIZ.	T	E	C	H	MINIMUM OUTPUT CURRENT		MAX. OUTPUT VOLT.	INPUT LOGIC LEVEL		RATED SUPPLY SPAN		MAX. NOISE IMMUN. -ITY	MAX. PROP. DELAY tpd (s)	MAX. OPERATE. PWR. DISS. (W)	OPER. TEMP.		DRAWINGS			
		1	2						PER DEV	PER CKT		I (A)	@ Vo (V)	HIGH (min) (V)	LOW (max) (V)				NEG. (V)	POS. (V)	(-) (°C)	(°C)	LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO
1▼	JANM38510/07004BCB	INV	OC	6	1	TTL	20m	.50			2.0	.80	0.0	5.5	400m	14n	297m	55	125	AA82	DL98			
2▼	JANM38510/07004BDA	INV	OC	6	1	TTL	20m	.50			2.0	.80	0.0	5.5	400m	14n	297m	55	125	AA82	FP27			
3▼	JANM38510/07004BDB	INV	OC	6	1	TTL	20m	.50			2.0	.80	0.0	5.5	400m	14n	297m	55	125	AA82	FP27			
4▼	JANM38510/07004CCA	INV	OC	6	1	TTL	20m	.50			2.0	.80	0.0	5.5	400m	14n	297m	55	125	AA82	DL98			
5▼	JANM38510/07004CCB	INV	OC	6	1	TTL	20m	.50			2.0	.80	0.0	5.5	400m	14n	297m	55	125	AA82	DL98			
6▼	JANM38510/07004CDA	INV	OC	6	1	TTL	20m	.50			2.0	.80	0.0	5.5	400m	14n	297m	55	125	AA82	DL99			
7▼	JANM38510/07004CDB	INV	OC	6	1	TTL	20m	.50			2.0	.80	0.0	5.5	400m	14n	297m	55	125	AA82	FP27			
8▼	MC3008F	INV	TP	6	1	TTL	20m	.40			1.8†	1.1†	0.0	5.0		10n	140m†	0	75	AA94	TO86			
9▼	MC3008L	INV	TP	6	1	TTL	20m	.40			1.8†	1.1†	0.0	5.0		10n	140m†	0	75	AA94	TO116			
10▼	MC3008P	INV	TP	6	1	TTL	20m	.40			1.8†	1.1†	0.0	5.0		10n	140m†	0	75	AA94	DL7			
11▼	MC3108F	INV	TP	6	1	TTL	20m	.40			1.8†	1.1†	0.0	5.0		10n	140m†	55	125	AA94	TO86			
12▼	MC3108L	INV	TP	6	1	TTL	20m	.40			1.8†	1.1†	0.0	5.0		10n	140m†	55	125	AA94	TO116			
13#	SFC404HE	INV	TP	6	1	TTL	20m	.40			2.0	.80	0.0	5.0	400m*	13n	200m	0	70	AA20	TO116			
14#	SFC404HEM	INV	TP	6	1	TTL	20m	.40			2.0	.80	0.0	5.0	400m*	13n	200m	55	125	AA20	TO116			
15#	SFC404HJM	INV	TP	6	1	TTL	20m	.40			2.0	.80	0.0	5.0	400m*	13n	200m	55	125	AA20	TO116			
16#	SFC404HKM	INV	TP	6	1	TTL	20m	.40			2.0	.80	0.0	5.0	400m*	13n	200m	55	125	AA20	TO116			
17#	SFC404HPM	INV	TP	6	1	TTL	20m	.40			2.0	.80	0.0	5.0	400m*	13n	200m	55	125	AA20a	TO85			
18#	SFC404SE	INV	TP	6	1	TTL	20m	.50			2.0	.80	0.0	5.0	400m*	5.0n	270m	0	70	AA53	TO116			
19#	SFC404SJM	INV	TP	6	1	TTL	20m	.50			2.0	.80	0.0	5.0	400m*	5.0n	270m	55	125	AA53	TO116			
20#	SFC404SKM	INV	TP	6	1	TTL	20m	.50			2.0	.80	0.0	5.0	400m*	5.0n	270m	55	125	AA53	TO116			
21#	SFC405SE	INV	OC	6	1	TTL	20m	.50			2.0	.80	0.0	5.0	400m*	7.5n	270m	0	70	AA60	TO116			
22#	SFC405SJM	INV	OC	6	1	TTL	20m	.50			2.0	.80	0.0	5.0	400m*	7.5n	270m	55	125	AA60	TO116			
23#	SFC405SKM	INV	OC	6	1	TTL	20m	.50			2.0	.80	0.0	5.0	400m*	7.5n	270m	55	125	AA60	TO116			
24#	uPB74H04C	INV	TP	6	1	TTL	20m	.40			2.0	.80	0.0	5.0	1.0†	10n	290m	0	70	AA20	Δ001AA			
25▼	ITT54H04J	INV	TP	6	1	TTL	20m	.40	5.5		2.0	.80	0.0	5.0	400m*	10n	290m	55	125	AA98	DL3d			
26▼	ITT54H05J	INV	OC	6	1	TTL	20m	.40	5.5		2.0	.80	0.0	5.0	400m*	12n	290m	55	125	AA98	DL3d			
27▼	ITT74H04J	INV	TP	6	1	TTL	20m	.40	5.5		2.0	.80	0.0	5.0	400m*	10n	290m	0	75	AA98	DL3d			
28▼	ITT74H04N	INV	TP	6	1	TTL	20m	.40	5.5		2.0	.80	0.0	5.0	400m*	10n	290m	0	75	AA98	DL3c			
29▼	ITT74H05J	INV	OC	6	1	TTL	20m	.40	5.5		2.0	.80	0.0	5.0	400m*	12n	290m	0	75	AA98	DL3d			
30▼	ITT74H05N	INV	OC	6	1	TTL	20m	.40	5.5		2.0	.80	0.0	5.0	400m*	12n	290m	0	75	AA98	DL3c			
31▼	MC429F	INV	TP	6	1	TTL	20m	.40	5.5		3.0†	.45†	0.0	5.0		20n	90m†	0	75	AA50b	TO86			
32▼	MC429L,P%	INV	TP	6	1	TTL	20m	.40	5.5		3.0†	.45†	0.0	5.0		20n	90m†	0	75	AA50b	TO116			
33▼	MC529F	INV	TP	6	1	TTL	20m	.40	5.5		2.8†	.45†	0.0	5.0		20n	90m†	55	125	AA50b	TO86			
34▼	MC529L	INV	TP	6	1	TTL	20m	.40	5.5		2.8†	.45†	0.0	5.0		20n	90m†	55	125	AA50b	TO116			
35	N74H04A	INV	TP	6	1	TTL	20m	.40	5.5		2.0	.80	0.0	5.0	400m	10n	290m	0	70	AA20	DL3a			
36	N74H04F	INV	TP	6	1	TTL	20m	.40	5.5		2.0	.80	0.0	5.0	400m	10n	290m	0	70	AA20	DL16d			
37	N74H05A	INV	OC	6	1	TTL	20m	.40	5.5		2.0	.80	0.0	5.0	400m	15n	290m	0	70	AA24	DL3a			
38	N74H05F	INV	OC	6	1	TTL	20m	.40	5.5		2.0	.80	0.0	5.0	400m	15n	290m	0	70	AA24	DL16d			
39	N74S04A	INV	TP	6	1	TTL	20m	.50	5.5		2.0	.80	0.0	5.0	400m	5.0n	270m	0	70	AA22	DL3a			
40	N74S04F	INV	TP	6	1	TTL	20m	.50	5.5		2.0	.80	0.0	5.0	400m	5.0n	270m	0	70	AA22	DL16d			
41	N74S05A	INV	OC	6	1	TTL	20m	.50	5.5		2.0	.80	0.0	5.0	400m	7.5n	270m	0	70	AA26	DL3a			
42	N74S05F	INV	OC	6	1	TTL	20m	.50	5.5		2.0	.80	0.0	5.0	400m	7.5n	270m	0	70	AA26	DL16d			
43	S54H04F	INV	TP	6	1	TTL	20m	.40	5.5		2.0	.80	0.0	5.0	400m	10n	290m	55	125	AA20	DL16d			
44	S54H04W	INV	TP	6	1	TTL	20m	.40	5.5		2.0	.80	0.0	5.0	400m	10n	290m	55	125	AA20a	FP14			
45	S54H05F	INV	OC	6	1	TTL	20m	.40	5.5		2.0	.80	0.0	5.0	400m	15n	290m	55	125	AA24	DL16d			
46	S54H05W	INV	OC	6	1	TTL	20m	.40	5.5		2.0	.80	0.0	5.0	400m	15n	290m	55	125	AA24a	FP14			
47	S54S04F	INV	TP	6	1	TTL	20m	.50	5.5		2.0	.80	0.0	5.0	400m	5.0n	270m	0	70	AA22	DL16d			
48	S54S04W	INV	TP	6	1	TTL	20m	.50	5.5		2.0	.80	0.0	5.0	400m	5.0n	270m	0	70	AA22	FP14			
49	S54S05F	INV	OC	6	1	TTL	20m	.50	5.5		2.0	.80	0.0	5.0	400m	7.5n	270m	55	125	AA26	DL16d			
50	S54S05W	INV	OC	6	1	TTL	20m	.50	5.5		2.0	.80	0.0	5.0	400m	7.5n	270m	55	125	AA26	FP14			
51	SN54H04J	INV	TP	6	1	TTL	20m	.40	5.5		2.0	.80	0.0	5.0	1.0†	10n	290m	55	125	AA20	DL23			
52	SN54H04W	INV	TP	6	1	TTL	20m	.40	5.5		2.0	.80	0.0	5.0	1.0†	10n	290m	55	125	AA20a	Δ004AA			
53	SN54H05J	INV	OC	6	1	TTL	20m	.40	5.5		2.0	.80	0.0	5.0	1.0†	15n	290m	55	125	AA24	DL23			
54	SN54H05W	INV	OC	6	1	TTL	20m	.40	5.5		2.0	.80	0.0	5.0	1.0†	15n	290m	55	125	AA24a	Δ004AA			
55	SN54S04J	INV	TP	6	1	TTL	20m	.50	5.5		2.0	.80	0.0	5.0	1.0†	4.5n	270m	55	125	AA22	DL23			
56	SN54S04W	INV	TP	6	1	TTL	20m	.50	5.5		2.0	.80	0.0	5.0	1.0†	4.5n	270m	55	125	AA22	Δ004AA			
57	SN54S05J	INV	OC	6	1	TTL	20m	.50	5.5		2.0	.80	0.0	5.0	1.0†	7.5n	270m	55	125	AA26	DL23			
58	SN54S05W	INV	OC	6	1	TTL	20m	.50	5.5		2.0	.80	0.0	5.0	1.0†	7.5n	270m	55	125	AA26	Δ004AA			
59	SN74H04J	INV	TP	6	1	TTL	20m	.40	5.5		2.0	.80	0.0	5.0	1.0†	10n	290m	0	70	AA20	DL23			
60	SN74H04N	INV	TP	6	1	TTL	20m	.40	5.5		2.0	.80	0.0	5.0	1.0†	10n	290m	0	70	AA20	DL24			
61	SN74H05J	INV	OC	6	1	TTL	20m	.40	5.5		2.0	.80	0.0	5.0	1.0†	15n	290m	0	70	AA24	DL23			
62	SN74H05N	INV	OC	6	1	TTL	20m	.40	5.5		2.0	.80	0.0	5.0	1.0†	15n	290m	0	70	AA24	DL24			
63	SN74S04J	INV	TP	6	1	TTL	20m	.50	5.5		2.0	.80	0.0	5.0	1.0†	4.5n	270m	0	70	AA22	DL23			
64	SN74S04N	INV	TP	6	1	TTL	20m	.50	5.5		2.0	.80	0.0	5.0	1.0†	4.5n	270m	0	70	AA22	DL24			
65	SN74S05J	INV	OC	6	1	TTL	20m	.50	5.5		2.0	.80	0.0	5.0	1.0†	7.5n	270m	0	70	AA26	DL23			
66	SN74S05N	INV	OC	6	1	TTL	20m	.50	5.5		2.0	.80	0.0	5.0	1.0†	7.5n	270m	0	70	AA26	DL24			
67#	M5S004P	INV	TP	6	1	TTL	20m	.50	7.0		2.0	.80	0.0	5.0		5.0n	270n	0	75	AA22	TO116			
68#	M5S005P	INV	OC	6	1	TTL	20m	.50	7.0		2.0	.80	0.0	5.0		7.5n	270m	0	75	AA25	TO116			
69▼	TG54S04F	INV	TP	6	1	TTL	20m	.50	7.0	□	2.0	.80	0.0	5.0		5.0n	270m	55	125	AA22	TO86			
70▼	TG54S04J	INV	TP	6	1	TTL	20m	.50	7.0	□	2.0	.80	0.0	5.0		5.0n	270m	55	12					

2. LOGIC BUFFERS/DRIVERS

IN ORDER OF: (1) BASIC LOGIC (2) CKTS/DEVICE
(3) MIN. OUTPUT CURR. & (4) TYPE NUMBER

LINE No.	TYPE NUMBER	FUNCT. CODE 1 BASIC LOGIC	ORGANIZ. CODE 2 LOGIC CKTS PER DEV	E C H N	3 MINIMUM OUTPUT CURRENT		MAX. OUTPUT VOLT. (V)	INPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. NOISE IMMUN. (V)	MAX. PROP. DELAY (s)	MAX. OPERATE. PWR. DISS. (W)	OPER. TEMP.		DRAWINGS		
					I (A)	@ V _o (V)		HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)				(-)	(+)	LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO	
					OC	OC		OC	OC	OC	OC				OC	OC	OC	OC	OC
1	JANM38510/00802CAC INV	OC	6	1	TTL	30m	.70	15	2.0	.80	0.0	5.0	400m	30n	252m	55	125	AA62	FP26
2	JANM38510/00802CBB INV	OC	6	1	TTL	30m	.70	15	2.0	.80	0.0	5.0	400m	30n	252m	55	125	AA62	FP21b
3	JANM38510/00802CCA INV	OC	6	1	TTL	30m	.70	15	2.0	.80	0.0	5.0	400m	30n	252m	55	125	AA62	DL98
4	JANM38510/00802CCB INV	OC	6	1	TTL	30m	.70	15	2.0	.80	0.0	5.0	400m	30n	252m	55	125	AA62	DL98
5	JANM38510/00802CCC INV	OC	6	1	TTL	30m	.70	15	2.0	.80	0.0	5.0	400m	30n	252m	55	125	AA62	DL98
6	JANM38510/00802CDB INV	OC	6	1	TTL	30m	.70	15	2.0	.80	0.0	5.0	400m	30n	252m	55	125	AA62	FP27
7	JANM38510/00804ACB INV	OC	6	1	TTL	30m	.70	15	2.0	.80	0.0	5.0	400m	35n	175m	55	125	AA63	DL98
8	JANM38510/00804BBB INV	OC	6	1	TTL	30m	.70	15	2.0	.80	0.0	5.0	400m	35n	175m	55	125	AA63	FP21b
9	JANM38510/00804BCB INV	OC	6	1	TTL	30m	.70	15	2.0	.80	0.0	5.0	400m	35n	175m	55	125	AA63	DL98
10	JANM38510/00804BCC INV	OC	6	1	TTL	30m	.70	15	2.0	.80	0.0	5.0	400m	35n	175m	55	125	AA63	FP27
11	JANM38510/00804BDB INV	OC	6	1	TTL	30m	.70	15	2.0	.80	0.0	5.0	400m	35n	175m	55	125	AA63	DL98
12	JANM38510/00804CAA INV	OC	6	1	TTL	30m	.70	15	2.0	.80	0.0	5.0	400m	35n	175m	55	125	AA63	FP26
13	JANM38510/00804CAB INV	OC	6	1	TTL	30m	.70	15	2.0	.80	0.0	5.0	400m	35n	175m	55	125	AA63	FP26
14	JANM38510/00804CAC INV	OC	6	1	TTL	30m	.70	15	2.0	.80	0.0	5.0	400m	35n	175m	55	125	AA63	FP26
15	JANM38510/00804CBB INV	OC	6	1	TTL	30m	.70	15	2.0	.80	0.0	5.0	400m	35n	175m	55	125	AA63	FP21b
16	JANM38510/00804CCA INV	OC	6	1	TTL	30m	.70	15	2.0	.80	0.0	5.0	400m	35n	175m	55	125	AA63	DL98
17	JANM38510/00804CCB INV	OC	6	1	TTL	30m	.70	15	2.0	.80	0.0	5.0	400m	35n	175m	55	125	AA63	DL98
18	JANM38510/00804CCC INV	OC	6	1	TTL	30m	.70	15	2.0	.80	0.0	5.0	400m	35n	175m	55	125	AA63	DL98
19	JANM38510/00804CDB INV	OC	6	1	TTL	30m	.70	15	2.0	.80	0.0	5.0	400m	25n	175m	55	125	AA63	DL98
20	S5416F INV	OC	6	1	TTL	30m	.70	15	2.0	.80	0.0	5.0	400m	35n	175m	55	125	AA63	FP27
21	S5416W INV	OC	6	1	TTL	30m	.40	15	2.0	.80	0.0	5.0	400m	23n	210m	55	125	AA27	FP14
22#	SFC416EM INV	OC	6	1	TTL	30m	.70	15	2.0	.80	0.0	5.0	400m*	23n	255m	55	125	AA27	TO116
23#	SFC416ET INV	OC	6	1	TTL	30m	.70	15	2.0	.80	0.0	5.0	400m*	23n	255m	25	85	AA27	TO116
24#	SFC416JM INV	OC	6	1	TTL	30m	.70	15	2.0	.80	0.0	5.0	400m*	23n	255m	55	125	AA27	TO116
25#	SFC416KM INV	OC	6	1	TTL	30m	.70	15	2.0	.80	0.0	5.0	400m*	23n	255m	55	125	AA27	TO116
26#	SFC416PM INV	OC	6	1	TTL	30m	.70	15	2.0	.80	0.0	5.0	400m*	23n	255m	55	125	AA27	TO85
27	ITT7406J INV	OC	6	1	TTL	30m	.70	30	2.0	.80	0.0	5.0	400m*	15n	190m	55	125	AA98	DL3d
28	JANM38510/00801ACB INV	OC	6	1	TTL	30m	.70	30	2.0	.80	0.0	5.0	400m	30n	252m	55	125	AA62	DL98
29	JANM38510/00801BAA INV	OC	6	1	TTL	30m	.70	30	2.0	.80	0.0	5.0	400m	30n	252m	55	125	AA62	FP26
30	JANM38510/00801BAB INV	OC	6	1	TTL	30m	.70	30	2.0	.80	0.0	5.0	400m	30n	252m	55	125	AA62	FP26
31	JANM38510/00801BAC INV	OC	6	1	TTL	30m	.70	30	2.0	.80	0.0	5.0	400m	30n	252m	55	125	AA62	FP26
32	JANM38510/00801BBB INV	OC	6	1	TTL	30m	.70	30	2.0	.80	0.0	5.0	400m	30n	252m	55	125	AA62	FP21b
33	JANM38510/00801BCA INV	OC	6	1	TTL	30m	.70	30	2.0	.80	0.0	5.0	400m	30n	252m	55	125	AA62	DL98
34	JANM38510/00801BCB INV	OC	6	1	TTL	30m	.70	30	2.0	.80	0.0	5.0	400m	30n	252m	55	125	AA62	DL98
35	JANM38510/00801BCC INV	OC	6	1	TTL	30m	.70	30	2.0	.80	0.0	5.0	400m	30n	252m	55	125	AA62	DL98
36	JANM38510/00801BDB INV	OC	6	1	TTL	30m	.70	30	2.0	.80	0.0	5.0	400m	30n	252m	55	125	AA62	DL98
37	JANM38510/00801CAA INV	OC	6	1	TTL	30m	.70	30	2.0	.80	0.0	5.0	400m	30n	252m	55	125	AA62	FP27
38	JANM38510/00801CAB INV	OC	6	1	TTL	30m	.70	30	2.0	.80	0.0	5.0	400m	30n	252m	55	125	AA62	FP26
39	JANM38510/00801CAC INV	OC	6	1	TTL	30m	.70	30	2.0	.80	0.0	5.0	400m	30n	252m	55	125	AA62	FP26
40	JANM38510/00801CBB INV	OC	6	1	TTL	30m	.70	30	2.0	.80	0.0	5.0	400m	30n	252m	55	125	AA62	FP26
41	JANM38510/00801CCA INV	OC	6	1	TTL	30m	.70	30	2.0	.80	0.0	5.0	400m	30n	252m	55	125	AA62	FP21b
42	JANM38510/00801CCB INV	OC	6	1	TTL	30m	.70	30	2.0	.80	0.0	5.0	400m	30n	252m	55	125	AA62	DL98
43	JANM38510/00801CCC INV	OC	6	1	TTL	30m	.70	30	2.0	.80	0.0	5.0	400m	30n	252m	55	125	AA62	DL98
44	JANM38510/00801CDB INV	OC	6	1	TTL	30m	.70	30	2.0	.80	0.0	5.0	400m	30n	252m	55	125	AA62	DL98
45	S5406F INV	OC	6	1	TTL	30m	.70	30	2.0	.80	0.0	5.0	400m	30n	252m	55	125	AA62	FP27
46	S5406W INV	OC	6	1	TTL	30m	.40	30	2.0	.80	0.0	5.0	400m	15n	210m	55	125	AA27	DL16d
47#	SFC406EM INV	OC	6	1	TTL	30m	.70	30	2.0	.80	0.0	5.0	400m*	23n	255m	55	125	AA27	FP14
48#	SFC406ET INV	OC	6	1	TTL	30m	.70	30	2.0	.80	0.0	5.0	400m*	23n	255m	25	85	AA27	TO116
49#	SFC406JM INV	OC	6	1	TTL	30m	.70	30	2.0	.80	0.0	5.0	400m*	23n	255m	55	125	AA27	TO116
50#	SFC406KM INV	OC	6	1	TTL	30m	.70	30	2.0	.80	0.0	5.0	400m*	23n	255m	55	125	AA27	TO116
51#	SFC406PM INV	OC	6	1	TTL	30m	.70	30	2.0	.80	0.0	5.0	400m*	23n	255m	55	125	AA27	TO85
52	SN54366AJ INV	3S	6	1	TTL	32m	.40	2.0	.80	0.0	5.0		17n	385m	55	125	AA42	DL25	
53	SN54366AW INV	3S	6	1	TTL	32m	.40	2.0	.80	0.0	5.0		17n	385m	55	125	AA42	Δ004AG	
54	SN54368AJ INV	3S	6	1	TTL	32m	.40	2.0	.80	0.0	5.0		17n	385m	55	125	AA44	DL25	
55	SN54368AW INV	3S	6	1	TTL	32m	.40	2.0	.80	0.0	5.0		17n	385m	55	125	AA44	Δ004AG	
56	SN74366AJ INV	3S	6	1	TTL	32m	.40	2.0	.80	0.0	5.0		17n	385m	0	70	AA42	DL25	
57	SN74366AN INV	3S	6	1	TTL	32m	.40	2.0	.80	0.0	5.0		17n	385m	0	70	AA42	DL26	
58	SN74368AJ INV	3S	6	1	TTL	32m	.40	2.0	.80	0.0	5.0		17n	385m	0	70	AA44	DL25	
59	SN74368AN INV	3S	6	1	TTL	32m	.40	2.0	.80	0.0	5.0		17n	385m	0	70	AA44	DL26	
60	SN54366J INV	3S	6	1	TTL	32m	.40	1.5	2.0	.80	0.0	5.0	1.0 ↑	17n	385m	55	125	AA12	DL25
61	SN54366W INV	3S	6	1	TTL	32m	.40	1.5	2.0	.80	0.0	5.0	1.0 ↑	17n	385m	55	125	AA12	Δ004AG
62	SN54368J INV	TP	6	1	TTL	32m	.40	5.5	2.0	.80	0.0	5.0	1.0 ↑	17n	385m	55	125	AA14	DL25
63	SN54368W INV	TP	6	1	TTL	32m	.40	5.5	2.0	.80	0.0	5.0	1.0 ↑	17n	385m	55	125	AA14	Δ004AG
64	SN74366J INV	TP	6	1	TTL	32m	.40	5.5	2.0	.80	0.0	5.0	1.0 ↑	17n	385m	0	70	AA12	DL25
65	SN74366N INV	TP	6	1	TTL	32m	.40	5.5	2.0	.80	0.0	5.0	1.0 ↑	17n	385m	0	70	AA12	DL26
66	SN74368J INV	TP	6	1	TTL	32m	.40	5.5	2.0	.80	0.0	5.0	1.0 ↑	17n	385m	0	70	AA14	DL25
67	SN74368N INV	TP	6	1	TTL	32m	.40	5.5	2.0	.80	0.0	5.0	1.0 ↑	17n	385m	0	70	AA14	DL26
68	ITT77416J INV	OC	6	1	TTL	40m	.70	15	2.0	.80	0.0	5.0	400m*	15n	190m	0	75	AA98	DL3c
69	ITT77416N INV	OC	6	1	TTL	40m	.70	15	2.0	.80	0.0	5.0	400m*	15n	190m	0	75	AA98	DL3c
70	N7416A INV	OC	6	1	TTL	40m	.70	15	2.0	.80	0.0	5.0	400m	23n	210m	0	70	AA27	DL3a
71	N7416F INV	OC	6	1	TTL	40m	.70	15	2.0	.80	0.0	5.0	400m	23n	210m	0	70	AA27	DL16d
72#	SFC416E INV	OC	6	1	TTL	40m	.70	15	2.0	.80	0.0	5.0	400m*	23n	255m	0	70	AA27	TO116
73	ITT7406J INV	OC	6	1	TTL	40m	.70	30	2.0	.80	0.0	5.0	400						

2. LOGIC BUFFERS/DRIVERS

IN ORDER OF: (1) BASIC LOGIC (2) CKTS/DEVICE
(3) MIN. OUTPUT CURR. & (4) TYPE NUMBER

LINE No.	TYPE NUMBER	FUNCT. CODE		ORGANIZ.	T	MINIMUM OUTPUT CURRENT @ V _o (A)	MAX. OUTPUT VOLT. (V)	INPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. NOISE IMMUNITY (V)	MAX. PROP. DELAY t _{pd} (ns)	MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO			
		1	2					E	H	N	I				L	NEG. (V)			POS. (V)	(-) (°C)	(+) (°C)
1	N7406A	INV	OC	6	1	TTL	40m	.70	30	2.0	.80	0.0	5.0	400m	15n	210m	0	70	AA27	DL3a	
2	N7406F	INV	OC	6	1	TTL	40m	.70	30	2.0	.80	0.0	5.0	400m	15n	210m	0	70	AA27	DL16d	
3#	SFC406E	INV	OC	6	1	TTL	40m	.70	30	2.0	.80	0.0	5.0	400m*	23n	255m	0	70	AA27	TO116	
4▼	8T96B	INV	3S	6	1	TTL	48m	.50	2.0	.80	0.0	5.0	11n	295m	0	75	AA107	DL4a			
5▼	8T96F	INV	3S	6	1	TTL	48m	.50	2.0	.80	0.0	5.0	11n	295m	0	75	AA107	DL17h			
6▼	8T98B	INV	3S	6	1	TTL	48m	.50	2.0	.80	0.0	5.0	11n	295m	0	75	AA109	DL4a			
7▼	8T98F	INV	3S	6	1	TTL	48m	.50	2.0	.80	0.0	5.0	11n	295m	0	75	AA109	DL17h			
8▼	MC8T96L	INV	3S	6	1	DTL	48m	.50	2.0	.80	0.0	5.0	24n	467m	0	75	AA17	DL17b			
9▼	MC8T96P	INV	3S	6	1	DTL	48m	.50	2.0	.80	0.0	5.0	24n	467m	0	75	AA17	DL30			
10▼	MC8T98L	INV	3S	6	1	DTL	48m	.50	2.0	.80	0.0	5.0	24n	467m	0	75	AA19	DL17b			
11▼	MC8T98P	INV	3S	6	1	DTL	48m	.50	2.0	.80	0.0	5.0	24n	467m	0	75	AA19	DL30			
12	XC8T96L	INV	3S	6	1	TTL	48m	.50	2.0	.80	0.0	5.25	300m*	12n	467m	0	75	AA17	DL17a		
13	XC8T96P	INV	3S	6	1	TTL	48m	.50	2.0	.80	0.0	5.25	300m*	12n	467m	0	75	AA17	DL30		
14	XC8T98L	INV	3S	6	1	TTL	48m	.50	2.0	.80	0.0	5.25	300m*	12n	467m	0	75	AA19	DL17a		
15	XC8T98P	INV	3S	6	1	TTL	48m	.50	2.0	.80	0.0	5.25	300m*	12n	467m	0	75	AA19	DL30		
16▼	CD4502BD	INV	3S	6	1	CMS	49m	1.5	18	15†	0.01	0.0	15	65n	500m	55	125	AA7	Δ001AE		
17▼	CD4502BE	INV	3S	6	1	CMS	49m	1.5	18	15†	0.01	0.0	15	65n	500m	40	85	AA7	Δ001AC		
18▼	CD4502BF	INV	3S	6	1	CMS	49m	1.5	18	15†	0.01	0.0	15	65n	500m	55	125	AA7	Δ001AC		
19▼	CD4502BK	INV	3S	6	1	CMS	49m	1.5	18	15†	0.01	0.0	15	65n	500m	55	125	AA7	Δ004AG		
20▼	NE582B	INV	OC	6	1	RTL	400m	.75	10	7.5†	0.01	0.0	10	80n†	800m	0	70	AA110	DL4a		
21▼	NE582F	INV	OC	6	1	RTL	400m	.75	10	7.5†	0.01	0.0	10	80n†	800m	0	70	AA110	DL17h		
22▼	UL03C	INV	Δ	3	1	MOS	6.2m†	2.5	15	-9.0	-3.5	18	0.0	1.0*	120†	55	125	AA115	FP7		
23#	SFC601E	INV	Δ	10	1	TTL	16m	.40	30	2.0	.80	0.0	5.25	400m*	22n	400m	0	70	AA52	DL50	
24#	SP702AT	NAIV		3	1	TTL	10m†		30	-2.7	-80%	0.0	30†		35n†	160m	0	70	AA56	CN8	
25#	SP702BT	NAIV		3	1	TTL	10m†		30	-2.7	-80%	0.0	30†		35n†	80m	0	70	AA56	CN8	
26#	SP752AF	NAIV		3	1	TTL	10m†		30	-2.7	-80%	0.0	30†		35n†	160m	0	70	AA58	FP8	
27#	SP752BF	NAIV		3	1	TTL	10m†		30	-2.7	-80%	0.0	30†		35n†	80m	0	70	AA58	FP8	
28	333CJ	NAIV	RP	6	2Δ	DTL	5.0m	7.0	10	6.5Δ	5.0*	0.0	12	3.5	350n	504m	30	85	AA3	DL15	
29	333CL	NAIV	RP	6	2Δ	DTL	5.0m	7.0	10	6.5Δ	5.0*	0.0	12	3.5	350n	504m	30	85	AA3	DL17	
30	333AL	NAIV	RP	6	2Δ	DTL	5.0m	9.5	13	6.5Δ	5.0*	0.0	15	6.5	350n	900m	30	70	AA3	DL17	
31	332BL	NAIV	OC	6	2Δ	DTL	6.4m	.40	400m	6.5Δ	5.0*	0.0	12	3.5	350n	336m	55	125	AA3	DL17	
32	332ML	NAIV	OC	6	2Δ	DTL	6.4m	.40	400m	6.5Δ	5.0*	0.0	15	6.5	350n	630m	55	125	AA3	DL17	
33	332CJ	NAIV	OC	6	2Δ	DTL	6.4m	.40	20	6.5Δ	5.0*	0.0	12	3.5	350n	336m	30	85	AA3	DL15	
34	332CL	NAIV	OC	6	2Δ	DTL	6.4m	.40	20	6.5Δ	5.0*	0.0	12	3.5	350n	336m	30	85	AA3	DL17	
35	332AJ	NAIV	OC	6	2Δ	DTL	6.4m	.40	24	6.5Δ	5.0*	0.0	15	6.5	350n	630m	30	70	AA3	DL17	
36	332AL	NAIV	OC	6	2Δ	DTL	6.4m	.40	24	6.5Δ	5.0*	0.0	15	6.5	350n	630m	30	70	AA3	DL17	
37	333BL	NAIV	RP	6	2Δ	DTL	10m	1.5	7.0	6.5Δ	5.0*	0.0	12	3.5	350n	504m	55	125	AA3	DL17	
38	333ML	NAIV	RP	6	2Δ	DTL	13m	1.8	9.5	6.5Δ	5.0*	0.0	15	6.5	350n	900m	55	125	AA3	DL17	
39#	JPB6A	NAND	TP	2	4	DTL			7.0	5.0†	0.01	0.0	5.0	100n†	70m†	0	75	AA80	CN6a		
40#	JPB6B	NAND	TP	2	4	DTL			7.0	5.0†	0.01	0.0	5.0	100n†	70m†	0	75	AA80a	FP5a		
41	333BL	NAND	RP	6	5Δ	DTL	5.0m	7.0	10	6.5Δ	5.0*	0.0	12	3.5	350n	504m	55	125	AA2	DL17	
42	333CL	NAND	RP	6	5Δ	DTL	5.0m	7.0	10	6.5Δ	5.0*	0.0	12	3.5	350n	504m	30	85	AA2	DL15	
43	335CL	NAND	RP	6	5Δ	DTL	5.0m	7.0	10	6.5Δ	5.0*	0.0	12	3.5	350n	504m	30	85	AA2	DL17	
44	335AL	NAND	RP	6	5Δ	DTL	5.0m	9.5	13	6.5Δ	5.0*	0.0	15	6.5	350n	900m	30	70	AA2	DL17	
45	335ML	NAND	RP	6	5Δ	DTL	5.0m	9.5	13	6.5Δ	5.0*	0.0	15	6.5	350n	900m	55	125	AA2	DL17	
46	334BL	NAND	OC	6	5Δ	DTL	6.4m	.40	20	6.5Δ	5.0*	0.0	12	3.5	350n	336m	55	125	AA2	DL17	
47	334CL	NAND	OC	6	5Δ	DTL	6.4m	.40	20	6.5Δ	5.0*	0.0	12	3.5	350n	336m	30	85	AA2	DL15	
48	334AL	NAND	OC	6	5Δ	DTL	6.4m	.40	20	6.5Δ	5.0*	0.0	12	3.5	350n	336m	30	85	AA2	DL17	
49	334AJ	NAND	OC	6	5Δ	DTL	6.4m	.40	24	6.5Δ	5.0*	0.0	15	6.5	350n	630m	30	70	AA3	DL15	
50	334AL	NAND	OC	6	5Δ	DTL	6.4m	.40	24	6.5Δ	5.0*	0.0	15	6.5	350n	630m	30	70	AA2	DL17	
51	334ML	NAND	OC	6	5Δ	DTL	6.4m	.40	24	6.5Δ	5.0*	0.0	15	6.5	350n	630m	55	125	AA2	DL17	
52	54LS40CH	NAND	TP	2	4	TTL	12m	.40	2.0	.70	0.0	5.0	300m*	14n	30m	55	125	AA32a	CH†		
53	54LS40DM	NAND	TP	2	4	TTL	12m	.40	2.0	.70	0.0	5.0	300m*	15n	30m	55	125	AA32a	DL16c		
54	54LS40FM	NAND	TP	2	4	TTL	12m	.40	2.0	.70	0.0	5.0	300m*	15n	30m	55	125	AA32a	TO86		
55	54LS40J	NAND	TP	2	4	TTL	12m	.40	2.0	.70	0.0	5.0	300m*	14n	30m	55	125	AA32a	DL16a		
56	54LS40W	NAND	TP	2	4	TTL	12m	.40	2.0	.70	0.0	5.0	300m*	14n	30m	55	125	AA32a	FP21		
57	74LS40DC	NAND	TP	2	4	TTL	12m	.40	2.0	.80	0.0	5.0	300m*	15n	30m	0	75	AA32a	DL16c		
58	74LS40FC	NAND	TP	2	4	TTL	12m	.40	2.0	.80	0.0	5.0	300m*	15n	30m	0	75	AA32a	TO86		
59	74LS40PC	NAND	TP	2	4	TTL	12m	.40	2.0	.80	0.0	5.0	300m*	15n	30m	0	75	AA32a	DL68		
60▼	JANM38510/3020	1BAA	NAND	TP	2	4	TTL	12m	.40	2.0	.70	0.0	5.5	500m	30n	33m	55	125	AA84	FP26	
61▼	JANM38510/3020	1BAB	NAND	TP	2	4	TTL	12m	.40	2.0	.70	0.0	5.5	500m	30n	33m	55	125	AA84	FP26	
62▼	JANM38510/3020	1BAC	NAND	TP	2	4	TTL	12m	.40	2.0	.70	0.0	5.5	500m	30n	33m	55	125	AA84	FP26	
63▼	JANM38510/3020	1BCA	NAND	TP	2	4	TTL	12m	.40	2.0	.70	0.0	5.5	500m	30n	33m	55	125	AA84	DL98	
64▼	JANM38510/3020	1BCB	NAND	TP	2	4	TTL	12m	.40	2.0	.70	0.0	5.5	500m	30n	33m	55	125	AA84	DL98	
65▼	JANM38510/3020	1BCC	NAND	TP	2	4	TTL	12m	.40	2.0	.70	0.0	5.5	500m	30n	33m	55	125	AA84	DL98	
66▼	JANM38510/3020	1BDA	NAND	TP	2	4	TTL	12m	.40	2.0	.70	0.0	5.5	500m	30n	33m	55	125	AA84	FP27	
67▼	JANM38510/3020	1BDB	NAND	TP	2	4	TTL	12m	.40	2.0	.70	0.0	5.5	500m	30n	33m	55	125	AA84	FP27	
68▼	JANM38510/3020	1BDC	NAND	TP	2	4	TTL	12m	.40	2.0	.70	0.0	5.5	500m	30n	33m	55	125	AA84	FP27	
69▼	JANM38510/3020	1CAA	NAND	TP	2	4	TTL	12m	.40	2.0	.70	0.0	5.5	500m	30n	33m	55	125	AA84	FP26	
70▼	JANM38510/3020	1CAB	NAND	TP	2	4	TTL	12m	.40	2.0	.70	0.0	5.5	500m	30n	33m	55	125	AA84	FP26	
71▼	JANM38510/3020	1CAC	NAND	TP	2	4	TTL	12m	.40	2.0	.70	0.0	5.5	500m	30n	33m	55	125	AA84	FP26	
72▼	JANM38510/3020	1CCA	NAND	TP	2	4	TTL	12m	.40	2.0	.70	0.0	5.5	500m	30n	33m	55	125	AA84	DL98	
73▼	JANM38510/3020	1CCB	NAND	TP	2	4	TTL	12m	.40	2.0	.70	0.0	5.5	500m	30n	33m	55	125	AA84	DL98	
74▼	JANM38510																				

2. LOGIC BUFFERS/DRIVERS

IN ORDER OF: (1)BASIC LOGIC (2)CKTS/DEVICE
(3)MIN.OUTPUT CURR. & (4)TYPE NUMBER

LINE No.	TYPE NUMBER	FUNCT. CODE 1 BASIC LOGIC	ORGANIZ. 2 OUTP CKTS	LOGIC INPT PER DEV	T E C H N	3 MINIMUM OUTPUT CURRENT		MAX. OUTPUT VOLT. (V)	INPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. NOISE IMMUN. -ITY (V)	MAX. PROP. DELAY tpd (s)	MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS		
						(A)	@ Vo (V)		HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)				(-) (°C)	(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO	
1▼	JANM38510/0030	1ACANAND	TP	2	4	TTL	48m	.40		2.0	.80	0.0	5.0	400m	30n	135m	55	125	AA61a	DL98
2▼	JANM38510/0030	1ACBANAND	TP	2	4	TTL	48m	.40		2.0	.80	0.0	5.0	400m	30n	135m	55	125	AA61a	DL98
3▼	JANM38510/0030	1ACCNAND	TP	2	4	TTL	48m	.40		2.0	.80	0.0	5.0	400m	30n	135m	55	125	AA61a	DL98
4	JANM38510/0030	1BAANAND	TP	2	4	TTL	48m	.40		2.0	.80	0.0	5.0	400m	30n	135m	55	125	AA61a	FP26
5	JANM38510/0030	1BABNAND	TP	2	4	TTL	48m	.40		2.0	.80	0.0	5.0	400m	30n	135m	55	125	AA61a	FP26
6	JANM38510/0030	1BACNAND	TP	2	4	TTL	48m	.40		2.0	.80	0.0	5.0	400m	30n	135m	55	125	AA61a	FP26
7▼	JANM38510/0030	1BBNAND	TP	2	4	TTL	48m	.40		2.0	.80	0.0	5.0	400m	30n	135m	55	125	AA61a	FP21b
8	JANM38510/0030	1BCANAND	TP	2	4	TTL	48m	.40		2.0	.80	0.0	5.0	400m	30n	135m	55	125	AA61a	DL98
9	JANM38510/0030	1BCBNAND	TP	2	4	TTL	48m	.40		2.0	.80	0.0	5.0	400m	30n	135m	55	125	AA61a	DL98
10	JANM38510/0030	1BCCNAND	TP	2	4	TTL	48m	.40		2.0	.80	0.0	5.0	400m	30n	135m	55	125	AA61a	DL98
11▼	JANM38510/0030	1BDANAND	TP	2	4	TTL	48m	.40		2.0	.80	0.0	5.0	400m	30n	135m	55	125	AA61a	FP27
12	JANM38510/0030	1BDBNAND	TP	2	4	TTL	48m	.40		2.0	.80	0.0	5.0	400m	30n	135m	55	125	AA61a	FP27
13	JANM38510/0030	1BDCNAND	TP	2	4	TTL	48m	.40		2.0	.80	0.0	5.0	400m	30n	135m	55	125	AA61a	FP27
14	JANM38510/0030	1CANAND	TP	2	4	TTL	48m	.40		2.0	.80	0.0	5.0	400m	30n	135m	55	125	AA61a	FP26
15	JANM38510/0030	1CABNAND	TP	2	4	TTL	48m	.40		2.0	.80	0.0	5.0	400m	30n	135m	55	125	AA61a	FP26
16	JANM38510/0030	1CACNAND	TP	2	4	TTL	48m	.40		2.0	.80	0.0	5.0	400m	30n	135m	55	125	AA61a	FP26
17▼	JANM38510/0030	1CBBNAND	TP	2	4	TTL	48m	.40		2.0	.80	0.0	5.0	400m	30n	270m	55	125	AA61a	FP26
18	JANM38510/0030	1CCANAND	TP	2	4	TTL	48m	.40		2.0	.80	0.0	5.0	400m	30n	135m	55	125	AA61a	FP21b
19	JANM38510/0030	1CCBNAND	TP	2	4	TTL	48m	.40		2.0	.80	0.0	5.0	400m	30n	270m	55	125	AA61a	DL98
20	JANM38510/0030	1CCCNAND	TP	2	4	TTL	48m	.40		2.0	.80	0.0	5.0	400m	30n	270m	55	125	AA61a	DL98
21▼	JANM38510/0030	1CDANAND	TP	2	4	TTL	48m	.40		2.0	.80	0.0	5.0	400m	30n	270m	55	125	AA61a	DL98
22	JANM38510/0030	1CDBNAND	TP	2	4	TTL	48m	.40		2.0	.80	0.0	5.0	400m	30n	135m	55	125	AA61a	FP27
23	JANM38510/0030	1CDCNAND	TP	2	4	TTL	48m	.40		2.0	.80	0.0	5.0	400m	30n	270m	55	125	AA61a	FP27
24#	SFC440E	NAND	TP	2	4	TTL	48m	.40		2.0	.80	0.0	5.0	400m	30n	270m	55	125	AA61a	FP27
25#	SFC440EM	NAND	TP	2	4	TTL	48m	.40		2.0	.80	0.0	5.0	400m*	22n	135m	0	70	AA20b	TO116
26#	SFC440ET	NAND	TP	2	4	TTL	48m	.40		2.0	.80	0.0	5.0	400m*	22n	135m	55	125	AA20b	TO116
27#	SFC440JM	NAND	TP	2	4	TTL	48m	.40		2.0	.80	0.0	5.0	400m*	22n	135m	55	125	AA20b	TO116
28#	SFC440KM	NAND	TP	2	4	TTL	48m	.40		2.0	.80	0.0	5.0	400m*	22n	135m	55	125	AA20b	TO116
29#	SFC440PM	NAND	TP	2	4	TTL	48m	.40		2.0	.80	0.0	5.0	400m*	22n	135m	55	125	AA20c	TO85
30▼	uPB7440C	NAND	TP	2	1	TTL	48m	.40		2.0	.80	0.0	5.0	400m	22n	135m	0	70	AA64	Δ001AA
31#	MIC5440J	NAND	TP	2	4	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	400m	22n	135m	55	125	AA20b	DL59a
32#	MIC7440J	NAND	TP	2	4	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	400m	22n	135m	0	75	AA20b	DL59a
33#	MIC7440N	NAND	TP	2	4	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	400m	22n	135m	0	75	AA20b	DL24c
34	N7440A	NAND	TP	2	4	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	400m	22n	135m	0	70	AA20b	DL3a
35	N7440F	NAND	TP	2	4	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	400m	22n	135m	0	70	AA20b	DL16d
36	S5440F	NAND	TP	2	4	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	400m	22n	135m	55	125	AA20b	DL16d
37	S5440W	NAND	TP	2	4	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	400m	22n	135m	55	125	AA20c	FP14
38	SN5440J	NAND	TP	2	4	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	1.0 t	22n	135m	55	125	AA20b	DL23
39	SN5440W	NAND	TP	2	4	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	1.0 t	22n	135m	55	125	AA20c	Δ004AA
40	SN7440J	NAND	TP	2	4	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	1.0 t	22n	135m	0	70	AA20b	DL23
41	SN7440N	NAND	TP	2	4	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	1.0 t	22n	135m	0	70	AA20b	DL24
42	SN29009J	NAND	TP	2	4	TTL	48m	.45	5.5	1.8	.85	0.0	5.0	1.0 t	17n	67m	0	75	AA20b	DL23
43	SN29009N	NAND	TP	2	4	TTL	48m	.45	5.5	1.8	.85	0.0	5.0	1.0 t	17n	67m	0	75	AA20b	DL24
44	JANM38510/0240	1BANAND	TP	2	4	TTL	60m	.40		2.0	.80	0.0	5.0	400m	20n	200m	55	125	AA64	FP26
45	JANM38510/0240	1BABNAND	TP	2	4	TTL	60m	.40		2.0	.80	0.0	5.0	400m	20n	200m	55	125	AA64	FP26
46	JANM38510/0240	1BACNAND	TP	2	4	TTL	60m	.40		2.0	.80	0.0	5.0	400m	20n	200m	55	125	AA64	FP26
47▼	JANM38510/0240	1BCANAND	TP	2	4	TTL	60m	.40		2.0	.80	0.0	5.0	400m	20n	200m	55	125	AA64a	DL98
48	JANM38510/0240	1BCBNAND	TP	2	4	TTL	60m	.40		2.0	.80	0.0	5.0	400m	20n	200m	55	125	AA64a	DL98
49▼	JANM38510/0240	1BDANAND	TP	2	4	TTL	60m	.40		2.0	.80	0.0	5.0	400m	20n	200m	55	125	AA64	FP27
50	JANM38510/0240	1BDBNAND	TP	2	4	TTL	60m	.40		2.0	.80	0.0	5.0	400m	20n	200m	55	125	AA64	FP27
51	JANM38510/0240	1CANAND	TP	2	4	TTL	60m	.40		2.0	.80	0.0	5.0	400m	20n	200m	55	125	AA64	FP26
52	JANM38510/0240	1CABNAND	TP	2	4	TTL	60m	.40		2.0	.80	0.0	5.0	400m	20n	200m	55	125	AA64	FP26
53	JANM38510/0240	1CACNAND	TP	2	4	TTL	60m	.40		2.0	.80	0.0	5.0	400m	20n	200m	55	125	AA64	FP26
54▼	JANM38510/0240	1CCANAND	TP	2	4	TTL	60m	.40		2.0	.80	0.0	5.0	400m	20n	200m	55	125	AA64a	DL98
55	JANM38510/0240	1CCBNAND	TP	2	4	TTL	60m	.40		2.0	.80	0.0	5.0	400m	20n	200m	55	125	AA64a	DL98
56▼	JANM38510/0240	1CDANAND	TP	2	4	TTL	60m	.40		2.0	.80	0.0	5.0	400m	20n	200m	55	125	AA64	FP27
57	JANM38510/0240	1CDBNAND	TP	2	4	TTL	60m	.40		2.0	.80	0.0	5.0	400m	20n	200m	55	125	AA64	FP27
58▼	JANM38510/0720	1BCANAND	TP	2	4	TTL	60m	.50		2.0	.80	0.0	5.5	400m	8.5n	242m	55	125	AA83	DL98
59▼	JANM38510/0720	1BCBNAND	TP	2	4	TTL	60m	.50		2.0	.80	0.0	5.5	400m	8.5n	242m	55	125	AA83	DL98
60▼	JANM38510/0720	1BDANAND	TP	2	4	TTL	60m	.50		2.0	.80	0.0	5.5	400m	8.5n	242m	55	125	AA83	FP27
61▼	JANM38510/0720	1BDBNAND	TP	2	4	TTL	60m	.50		2.0	.80	0.0	5.5	400m	8.5n	242m	55	125	AA83	FP27
62▼	JANM38510/0720	1CCANAND	TP	2	4	TTL	60m	.50		2.0	.80	0.0	5.5	400m	8.5n	242m	55	125	AA83	DL98
63▼	JANM38510/0720	1CCBNAND	TP	2	4	TTL	60m	.50		2.0	.80	0.0	5.5	400m	8.5n	242m	55	125	AA83	DL98
64▼	JANM38510/0720	1CDANAND	TP	2	4	TTL	60m	.50		2.0	.80	0.0	5.5	400m	8.5n	242m	55	125	AA83	DL98
65▼	JANM38510/0720	1CDBNAND	TP	2	4	TTL	60m	.50		2.0	.80	0.0	5.5	400m	8.5n	242m	55	125	AA83	FP27

2. LOGIC BUFFERS/DRIVERS

IN ORDER OF: (1) BASIC LOGIC (2) CKTS/DEVICE
(3) MIN. OUTPUT CURR. & (4) TYPE NUMBER

LINE No.	TYPE NUMBER	FUNCT. CODE 1 BASIC LOGIC	OUTPUT CONN	ORGANIZ. CKTS PER DEV	LOGIC INPT PER CKT	T E C H N I C A L	MINIMUM OUTPUT CURRENT		MAX. OUTPUT VOLT. (V)	INPUT LOGIC LEVEL		RATED SUPPLY SPAN		MAX. NOISE IMMUNITY (V)	MAX. PROP. DELAY tpd (s)	MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS	
							I (A)	@ Vo (V)		HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)				(-) (°C)	(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No. Δ=Mo
1♦	SFC440HE	NAND TP	2	4	TTL		60m	40	2.0	.80	0.0	5.0		12n	200m	0	70	AA20b	TO116	
2♦	SFC440HEM	NAND TP	2	4	TTL		60m	40	2.0	.80	0.0	5.0		12n	200m	55	125	AA20b	TO116	
3♦	SFC440HJM	NAND TP	2	4	TTL		60m	40	2.0	.80	0.0	5.0		12n	200m	55	125	AA20b	TO116	
4♦	SFC440HKM	NAND TP	2	4	TTL		60m	40	2.0	.80	0.0	5.0		12n	200m	55	125	AA20b	TO116	
5♦	SFC440HPM	NAND TP	2	4	TTL		60m	40	2.0	.80	0.0	5.0		12n	200m	55	125	AA20c	TO85	
6▼	uPB74H40C	NAND TP	2	1	TTL		60m	40	2.0	.80	0.0	5.0		12n	200m	0	70	AA64	Δ001AA	
7	N74H40A	NAND TP	2	4	TTL		60m	40	5.5	2.0	.80	0.0	5.0	400m	12n	200m	0	70	AA20b	DL3a
8	N74H40F	NAND TP	2	4	TTL		60m	40	5.5	2.0	.80	0.0	5.0	400m	12n	200m	0	70	AA20b	DL16d
9	S54H40W	NAND TP	2	4	TTL		60m	40	5.5	2.0	.80	0.0	5.0	400m	12n	200m	55	125	AA20c	FP14
10	SN54H40J	NAND TP	2	4	TTL		60m	40	5.5	2.0	.80	0.0	5.0	1.0 ↑	12n	200m	55	125	AA20b	DL23
11	SN54H40W	NAND TP	2	4	TTL		60m	40	5.5	2.0	.80	0.0	5.0	1.0 ↑	12n	200m	55	125	AA20c	Δ004AA
12	SN54S40J	NAND TP	2	4	TTL		60m	50	5.5	2.0	.80	0.0	5.0	1.0 ↑	6.5n	110m	55	125	AA38	DL23
13	SN54S40W	NAND TP	2	4	TTL		60m	50	5.5	2.0	.80	0.0	5.0	1.0 ↑	6.5n	110m	55	125	AA38	Δ004AA
14	SN74H40J	NAND TP	2	4	TTL		60m	40	5.5	2.0	.80	0.0	5.0	1.0 ↑	12n	200m	0	70	AA20b	DL23
15	SN74H40N	NAND TP	2	4	TTL		60m	40	5.5	2.0	.80	0.0	5.0	1.0 ↑	12n	200m	0	70	AA20b	DL24
16	SN74S40J	NAND TP	2	4	TTL		60m	50	5.5	2.0	.80	0.0	5.0	1.0 ↑	6.5n	110m	55	125	AA38	DL23
17	SN74S40N	NAND TP	2	4	TTL		60m	50	5.5	2.0	.80	0.0	5.0	1.0 ↑	6.5n	110m	55	125	AA38	DL24
18#	M5S040P	NAND TP	2	4	TTL		60m	50	7.0	2.0	.80	0.0	5.0	6.5n	110m	0	75	AA38	TO116	
19▼	CD40107BE	NAND OC	2	2	CMS		88m ⁺	50			0.0	15		50n	500m	40	85	AA76	DL102	
20	392AL	NAND OC	2	2	DTL		250m	70		6.5Δ	5.0*	0.0	16	3.5 *	500m	640m	30	70	AA1b	DL14
21	392CL	NAND OC	2	2	DTL		250m	70		6.5Δ	5.0*	0.0	16	3.5 *	500m	640m	30	70	AA1b	DL14
22	395AL	NAND OC	2	4	DTL		250m	70		6.5Δ	5.0*	0.0	16	3.5 *	500m	640m	30	70	AA1e	DL14
23	395CL	NAND OC	2	4	DTL		250m	70		6.5Δ	5.0*	0.0	16	3.5 *	500m	640m	30	70	AA1e	DL14
24	TP4311AJ	NAND DC	4	2	CMS		650u	40	15	3.5	1.5	0.0	5.0	1.0 ↑	350n	200m	40	85	AA48	DL23
25	TP4311AN	NAND DC	4	2	CMS		650u	40	15	3.5	1.5	0.0	5.0	1.0 ↑	350n	200m	40	85	AA48	DL24
26	TF4311AJ	NAND DC	4	2	CMS		750u	40	15	3.5	1.5	0.0	5.0	1.0 ↑	250n	200m	55	125	AA48	DL23
27	TF4311AN	NAND DC	4	2	CMS		750u	40	15	3.5	1.5	0.0	5.0	1.0 ↑	250n	200m	55	125	AA48	DL24
28#	SFC437LSEM	NAND TP	4	2	TTL		4.0m	40	2.0	.80	0.0	5.0	400m*	24n	60m	55	125	AA32	TO116	
29▼	SN54LS26J	NAND OC	4	2	TTL		4.0m	40	15	2.0	.70	0.0	5.0	32n	22m	55	125	AA36a	DL23	
30▼	SN54LS26W	NAND OC	4	2	TTL		4.0m	40	15	2.0	.70	0.0	5.0	32n	22m	55	125	AA36a	Δ004AA	
31#	SFC437LSE	NAND TP	4	2	TTL		8.0m	50	2.0	.80	0.0	5.0	400m*	24n	60m	0	70	AA32	TO116	
32▼	SN74LS26J	NAND OC	4	2	TTL		8.0m	50	15	2.0	.80	0.0	5.0	32n	22m	0	70	AA36a	DL23	
33▼	SN74LS26N	NAND OC	4	2	TTL		8.0m	50	15	2.0	.80	0.0	5.0	32n	22m	0	70	AA36a	DL24	
34	54LS37CH	NAND TP	4	2	TTL		12m	40	2.0	.70	0.0	5.0	300m*	14n	60m	55	125	AA32	CH	
35	54LS37DM	NAND TP	4	2	TTL		12m	40	2.0	.70	0.0	5.0	300m*	15n	60m	55	125	AA32	DL16c	
36	54LS37FM	NAND TP	4	2	TTL		12m	40	2.0	.70	0.0	5.0	300m*	15n	60m	55	125	AA32	TO86	
37	54LS37J	NAND TP	4	2	TTL		12m	40	2.0	.70	0.0	5.0	300m*	14n	60m	55	125	AA32	DL16e	
38	54LS37W	NAND TP	4	2	TTL		12m	40	2.0	.70	0.0	5.0	300m*	14n	60m	55	125	AA32	FP21	
39	54LS38DM	NAND OC	4	2	TTL		12m	40	2.0	.70	0.0	5.0	300m*	22n	60m	55	125	AA36	DL16c	
40	54LS38FM	NAND OC	4	2	TTL		12m	40	2.0	.70	0.0	5.0	300m*	22n	60m	55	125	AA36	TO86	
41	74LS37DC	NAND TP	4	2	TTL		12m	40	2.0	.80	0.0	5.0	300m*	15n	60m	0	75	AA32	DL16c	
42	74LS37FC	NAND TP	4	2	TTL		12m	40	2.0	.80	0.0	5.0	300m*	15n	60m	0	75	AA32	TO86	
43	74LS37PC	NAND TP	4	2	TTL		12m	40	2.0	.80	0.0	5.0	300m*	15n	60m	0	75	AA32	DL68	
44	74LS38DC	NAND OC	4	2	TTL		12m	40	2.0	.80	0.0	5.0	300m*	22n	60m	0	75	AA36	DL16c	
45	74LS38FC	NAND OC	4	2	TTL		12m	40	2.0	.80	0.0	5.0	300m*	22n	60m	0	75	AA36	TO86	
46	74LS38PC	NAND OC	4	2	TTL		12m	40	2.0	.80	0.0	5.0	300m*	22n	60m	0	75	AA36	DL68	
47▼	JANM38510/30202BAA	NAND TP	4	2	TTL		12m	40	2.0	.70	0.0	5.5	500m	30n	66m	55	125	AA85	FP26	
48▼	JANM38510/30202BAB	NAND TP	4	2	TTL		12m	40	2.0	.70	0.0	5.5	500m	30n	66m	55	125	AA85	FP26	
49▼	JANM38510/30202BAC	NAND TP	4	2	TTL		12m	40	2.0	.70	0.0	5.5	500m	30n	66m	55	125	AA85	FP26	
50▼	JANM38510/30202BCA	NAND TP	4	2	TTL		12m	40	2.0	.70	0.0	5.5	500m	30n	66m	55	125	AA85	DL98	
51▼	JANM38510/30202BCB	NAND TP	4	2	TTL		12m	40	2.0	.70	0.0	5.5	500m	30n	66m	55	125	AA85	DL98	
52▼	JANM38510/30202BCC	NAND TP	4	2	TTL		12m	40	2.0	.70	0.0	5.5	500m	30n	66m	55	125	AA85	DL98	
53▼	JANM38510/30202BDA	NAND TP	4	2	TTL		12m	40	2.0	.70	0.0	5.5	500m	30n	66m	55	125	AA85	FP27	
54▼	JANM38510/30202BDB	NAND TP	4	2	TTL		12m	40	2.0	.70	0.0	5.5	500m	30n	66m	55	125	AA85	FP27	
55▼	JANM38510/30202BDC	NAND TP	4	2	TTL		12m	40	2.0	.70	0.0	5.5	500m	30n	66m	55	125	AA85	FP27	
56▼	JANM38510/30202CAA	NAND TP	4	2	TTL		12m	40	2.0	.70	0.0	5.5	500m	30n	66m	55	125	AA85	FP26	
57▼	JANM38510/30202CAB	NAND TP	4	2	TTL		12m	40	2.0	.70	0.0	5.5	500m	30n	66m	55	125	AA85	FP26	
58▼	JANM38510/30202CAC	NAND TP	4	2	TTL		12m	40	2.0	.70	0.0	5.5	500m	30n	66m	55	125	AA85	FP26	
59▼	JANM38510/30202CCA	NAND TP	4	2	TTL		12m	40	2.0	.70	0.0	5.5	500m	30n	66m	55	125	AA85	DL98	
60▼	JANM38510/30202CCB	NAND TP	4	2	TTL		12m	40	2.0	.70	0.0	5.5	500m	30n	66m	55	125	AA85	DL98	
61▼	JANM38510/30202CCC	NAND TP	4	2	TTL		12m	40	2.0	.70	0.0	5.5	500m	30n	66m	55	125	AA85	DL98	
62▼	JANM38510/30202CDA	NAND TP	4	2	TTL		12m	40	2.0	.70	0.0	5.5	500m	30n	66m	55	125	AA85	DL98	
63▼	JANM38510/30202CDB	NAND TP	4	2	TTL		12m	40	2.0	.70	0.0	5.5	500m	30n	66m	55	125	AA85	FP27	
64▼	JANM38510/30202CDC	NAND TP	4	2	TTL		12m	40	2.0	.70	0.0	5.5	500m	30n	66m	55	125	AA85	FP27	
65▼	JANM38510/30203BAA	NAND OC	4	2	TTL		12m	40	2.0	.70	0.0	5.5	500m	56n	66m	55	125	AA86	FP26	
66▼	JANM38510/30203BAB	NAND OC	4	2	TTL		12m	40	2.0	.70	0.0	5.5	500m	56n	66m	55	125	AA86	FP26	
67▼	JANM38510/30203BAC	NAND OC	4	2	TTL		12m	40	2.0	.70	0.0	5.5	500m	56n	66m	55	125	AA86	FP26	
68▼	JANM38510/30203BCA	NAND OC	4	2	TTL		12m	40	2.0	.70	0.0	5.5	500m	56n	66m	55	125	AA86	DL98	
69▼	JANM38510/30203BCB	NAND OC	4	2	TTL		12m	40	2.0	.70	0.0	5.5	500m	56n	66m	55	125	AA86	DL98	
70▼	JANM38510/30203BCC	NAND OC	4	2	TTL		12m	40	2.0	.70	0.0	5.5	500m	56n	66m	55	125	AA86	DL98	
71▼	JANM38510/30203BDA	NAND OC	4	2	TTL		12m	40	2.0	.70	0.0	5.5	500m	56n	66m	55	125	AA86	DL98	
72▼	JANM38510/30203BDB	NAND OC	4	2	TTL		12m	40	2.0	.70	0.0	5.5	500m	56n	66m	55	125	AA86	FP27	
73▼	JANM38510/30203BDC	NAND OC	4	2	TTL		12m	40	2.0	.70	0.0	5.5	500m	56n	66m	55	125	AA86	FP27	
74▼	JANM38510/30203CAA	N																		

2. LOGIC BUFFERS/DRIVERS

IN ORDER OF: (1)BASIC LOGIC (2)CKTS/DEVICE
(3)MIN.OUTPUT CURR. & (4)TYPE NUMBER

LINE No.	TYPE NUMBER	FUNCT. CODE		ORGANIZ. CTKTS	LOGIC INPT PER DEV	T E C H N I C I A N	MINIMUM OUTPUT CURRENT (A)	MAX. OUTPUT VOLT. (V)	INPUT LOGIC LEVEL HIGH (min) (V)	LOW (max) (V)	RATED SUPPLY SPAN		MAX. NOISE IMMUNITY (V)	MAX. PROP. DELAY tpd (s)	MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS		
		1 BASIC LOGIC	2 OUTP CONN								NEG. (V)	POS. (V)				(-) (°C)	(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO	
1▼	JANM38510/30203CCC	NAND	OC	4	2	TTL	12m	.40	2.0	.70	0.0	5.5	500m	56n	66m	55	125	AA86	DL98	
2▼	JANM38510/30203CDA	NAND	OC	4	2	TTL	12m	.40	2.0	.70	0.0	5.5	500m	56n	66m	55	125	AA86	FP27	
3▼	JANM38510/30203CDB	NAND	OC	4	2	TTL	12m	.40	2.0	.70	0.0	5.5	500m	56n	66m	55	125	AA86	FP27	
4▼	JANM38510/30203CDC	NAND	OC	4	2	TTL	12m	.40	2.0	.70	0.0	5.5	500m	56n	66m	55	125	AA86	FP27	
5	N74LS37A	NAND	TP	4	2	TTL	12m	.40	2.0	.80	0.0	5.0	500m	24n	60m	0	70	AA32	DL3a	
6	N74LS37F	NAND	TP	4	2	TTL	12m	.40	2.0	.80	0.0	5.0	500m	24n	60m	0	70	AA32	DL16d	
7	N74LS38A	NAND	OC	4	2	TTL	12m	.40	2.0	.80	0.0	5.0	500m	32n	60m	0	70	AA36	DL3a	
8	N74LS38F	NAND	OC	4	2	TTL	12m	.40	2.0	.80	0.0	5.0	500m	32n	60m	0	70	AA36	DL16d	
9	S54LS37F	NAND	TP	4	2	TTL	12m	.40	2.0	.70	0.0	5.0	700m	24n	60m	55	125	AA32	DL16d	
10	S54LS37W	NAND	TP	4	2	TTL	12m	.40	2.0	.70	0.0	5.0	700m	24n	60m	55	125	AA32	FP14	
11	S54LS38F	NAND	OC	4	2	TTL	12m	.40	2.0	.70	0.0	5.0	700m	32n	60m	55	125	AA36	DL16d	
12	S54LS38W	NAND	OC	4	2	TTL	12m	.40	2.0	.70	0.0	5.0	700m	32n	60m	55	125	AA36	FP14	
13	SN54LS37J	NAND	TP	4	2	TTL	12m	.40	2.0	.70	0.0	5.0	1.0 t	24n	60m	55	125	AA32	DL23	
14	SN54LS37W	NAND	TP	4	2	TTL	12m	.40	2.0	.70	0.0	5.0	1.0 t	24n	60m	55	125	AA32	Δ004AA	
15	SN54LS38J	NAND	OC	4	2	TTL	12m	.40	2.0	.70	0.0	5.0	1.0 t	32n	60m	55	125	AA36	DL23	
16	SN54LS38W	NAND	OC	4	2	TTL	12m	.40	2.0	.70	0.0	5.0	1.0 t	32n	60m	55	125	AA36	Δ004AA	
17	S54LS38CH	NAND	OC	4	2	TTL	12m	.40	2.0	.70	0.0	5.0	300m*	25n	60m	55	125	AA36	CH2	
18	S54LS38J	NAND	OC	4	2	TTL	12m	.40	2.0	.70	0.0	5.0	300m*	25n	60m	55	125	AA36	DL16e	
19	S54LS38W	NAND	OC	4	2	TTL	12m	.40	2.0	.70	0.0	5.0	300m*	25n	60m	55	125	AA36	FP21	
20#	SFC438LSEM	NAND	OC	4	2	TTL	12m	.40	2.0	.80	0.0	5.0	400m*	32n	60m	55	125	AA32	TO116	
21▼	SN5426J	NAND	OC	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	1.0 t	24n	110m	55	125	AA36a	DL23	
22▼	SN7426J	NAND	OC	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	1.0 t	24n	110m	0	70	AA36a	DL23	
23▼	SN7426N	NAND	OC	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	1.0 t	24n	110m	0	70	AA36a	DL24	
24#	M53238P	NAND	OC	4	2	TTL	16m	.40	5.2	.40%	0.0	5.0	400m*	22n	270m	0	75	AA35	TO116	
25▼	ITT5437J	NAND	TP	4	2	TTL	16m	.40	5.5	2.0	.80	0.0	5.0	400m*	22n	270m	55	125	AA36a	DL3d
26▼	ITT7437J	NAND	TP	4	2	TTL	16m	.40	5.5	2.0	.80	0.0	5.0	400m*	22n	270m	0	75	AA36a	DL3c
27▼	ITT7437N	NAND	TP	4	2	TTL	16m	.40	5.5	2.0	.80	0.0	5.0	400m*	22n	270m	0	75	AA36a	DL3c
28▼	JANM38510/00805BCA	NAND	OC	4	2	TTL	16m	.40	15	2.0	.80	0.0	5.0	400m	25n	110m	55	125	AA35a	DL98
29	JANM38510/00805BCB	NAND	OC	4	2	TTL	16m	.40	15	2.0	.80	0.0	5.0	400m	25n	110m	55	125	AA35a	DL98
30▼	JANM38510/00805CCA	NAND	OC	4	2	TTL	16m	.40	15	2.0	.80	0.0	5.0	400m	25n	110m	55	125	AA35a	DL98
31	JANM38510/00805CCB	NAND	OC	4	2	TTL	16m	.40	15	2.0	.80	0.0	5.0	400m	25n	110m	55	125	AA35a	DL98
32▼#	MIC5426J	NAND	OC	4	2	TTL	16m	.40	15	2.0	.80	0.0	5.0	400m*	22n t	40m t	55	125	AA36a	TO116
33▼#	MIC7426J	NAND	OC	4	2	TTL	16m	.40	15	2.0	.80	0.0	5.0	400m*	22n t	40m t	0	75	AA36a	TO116
34▼#	MIC7426N	NAND	OC	4	2	TTL	16m	.40	15	2.0	.80	0.0	5.0	400m*	22n t	40m t	0	75	AA36a	TO116
35	SN74LS37J	NAND	TP	4	2	TTL	24m	.50	5.5	2.0	.80	0.0	5.0	1.0 t	24n	60m	0	70	AA32	DL23
36	SN74LS37N	NAND	TP	4	2	TTL	24m	.50	5.5	2.0	.80	0.0	5.0	1.0 t	24n	60m	0	70	AA32	DL24
37	SN74LS38J	NAND	OC	4	2	TTL	24m	.50	5.5	2.0	.80	0.0	5.0	1.0 t	32n	60m	0	70	AA36	DL23
38	SN74LS38N	NAND	OC	4	2	TTL	24m	.50	5.5	2.0	.80	0.0	5.0	1.0 t	32n	60m	0	70	AA36	DL24
39#	SFC438LSE	NAND	OC	4	2	TTL	24m	.50	7.0	2.0	.80	0.0	5.0	400m*	32n	60m	0	70	AA32	TO116
40#	JSCF440	NAND	TP	4	2	TTL	48m	.40	2.0	.80	0.0	5.0	400m	22n	85m t	0	70	AA4	CH2	
41▼	JANM38510/00302ACA	NAND	TP	4	2	TTL	48m	.40	2.0	.80	0.0	5.0	400m	30n	270m	55	125	AA61	DL98	
42▼	JANM38510/00302ACB	NAND	TP	4	2	TTL	48m	.40	2.0	.80	0.0	5.0	400m	30n	270m	55	125	AA61	DL98	
43▼	JANM38510/00302ACC	NAND	TP	4	2	TTL	48m	.40	2.0	.80	0.0	5.0	400m	30n	270m	55	125	AA61	DL98	
44	JANM38510/00302BAA	NAND	TP	4	2	TTL	48m	.40	2.0	.80	0.0	5.0	400m	30n	270m	55	125	AA61	FP26	
45	JANM38510/00302BAB	NAND	TP	4	2	TTL	48m	.40	2.0	.80	0.0	5.0	400m	30n	270m	55	125	AA61	FP26	
46	JANM38510/00302BAC	NAND	TP	4	2	TTL	48m	.40	2.0	.80	0.0	5.0	400m	30n	270m	55	125	AA61	FP26	
47▼	JANM38510/00302BBB	NAND	TP	4	2	TTL	48m	.40	2.0	.80	0.0	5.0	400m	30n	270m	55	125	AA61	FP21b	
48	JANM38510/00302BCA	NAND	TP	4	2	TTL	48m	.40	2.0	.80	0.0	5.0	400m	30n	270m	55	125	AA61	DL98	
49	JANM38510/00302BCB	NAND	TP	4	2	TTL	48m	.40	2.0	.80	0.0	5.0	400m	30n	270m	55	125	AA61	DL98	
50	JANM38510/00302BCC	NAND	TP	4	2	TTL	48m	.40	2.0	.80	0.0	5.0	400m	30n	270m	55	125	AA61	DL98	
51▼	JANM38510/00302BDA	NAND	TP	4	2	TTL	48m	.40	2.0	.80	0.0	5.0	400m	30n	270m	55	125	AA61	DL98	
52	JANM38510/00302BDB	NAND	TP	4	2	TTL	48m	.40	2.0	.80	0.0	5.0	400m	30n	270m	55	125	AA61	FP27	
53	JANM38510/00302CAA	NAND	TP	4	2	TTL	48m	.40	2.0	.80	0.0	5.0	400m	30n	270m	55	125	AA61	FP26	
54	JANM38510/00302CAB	NAND	TP	4	2	TTL	48m	.40	2.0	.80	0.0	5.0	400m	30n	270m	55	125	AA61	FP26	
55	JANM38510/00302CAC	NAND	TP	4	2	TTL	48m	.40	2.0	.80	0.0	5.0	400m	30n	270m	55	125	AA61	FP26	
56▼	JANM38510/00302CBB	NAND	TP	4	2	TTL	48m	.40	2.0	.80	0.0	5.0	400m	30n	270m	55	125	AA61	FP21b	
57	JANM38510/00302CCA	NAND	TP	4	2	TTL	48m	.40	2.0	.80	0.0	5.0	400m	30n	270m	55	125	AA61	DL98	
58	JANM38510/00302CCB	NAND	TP	4	2	TTL	48m	.40	2.0	.80	0.0	5.0	400m	30n	270m	55	125	AA61	DL98	
59	JANM38510/00302CCC	NAND	TP	4	2	TTL	48m	.40	2.0	.80	0.0	5.0	400m	30n	270m	55	125	AA61	DL98	
60▼	JANM38510/00302CDA	NAND	TP	4	2	TTL	48m	.40	2.0	.80	0.0	5.0	400m	30n	270m	55	125	AA61	FP27	
61	JANM38510/00302CDB	NAND	TP	4	2	TTL	48m	.40	2.0	.80	0.0	5.0	400m	30n	270m	55	125	AA61	FP27	
62#	SFC437E	NAND	TP	4	2	TTL	48m	.40	2.0	.80	0.0	5.0	400m*	22n	270m	0	70	AA20d	TO116	
63#	SFC437EM	NAND	TP	4	2	TTL	48m	.40	2.0	.80	0.0	5.0	400m*	22n	270m	55	125	AA20d	TO116	
64#	SFC437ET	NAND	TP	4	2	TTL	48m	.40	2.0	.80	0.0	5.0	400m*	22n	270m	25	85	AA20d	TO116	
65#	SFC437JM	NAND	TP	4	2	TTL	48m	.40	2.0	.80	0.0	5.0	400m*	22n	270m	55	125	AA20d	TO116	
66#	SFC437KM	NAND	TP	4	2	TTL	48m	.40	2.0	.80	0.0	5.0	400m*	22n	270m	55	125	AA20d	TO116	
67#	SFC437PM	NAND	TP	4	2	TTL	48m	.40	2.0	.80	0.0	5.0	400m*	22n	270m	55	125	AA20d	TO85	
68#	SFC438E	NAND	OC	4	2	TTL	48m	.40	2.0	.80	0.0	5.0	400m*	22n	270m	0	70	AA35	TO116	
69#	SFC438EM	NAND	OC	4	2	TTL	48m	.40	2.0	.80	0.0	5.0	400m*	22n	270m	55	125	AA35	TO116	
70#	SFC438ET	NAND	OC	4	2	TTL	48m	.40	2.0	.80	0.0	5.0	400m*	22n	270m	25	85	AA35	TO116	
71#	SFC438JM	NAND	OC	4	2	TTL	48m	.40	2.0	.80	0.0	5.0	400m*	22n	270m	55	125	AA35	TO116	
72#	SFC438KM	NAND	OC	4	2	TTL	48m	.40	2.0	.80	0.0	5.0	400m*	22n	270m	55	125	AA35	TO116	
73#	SFC438PM	NAND	OC	4	2	TTL	48m	.40	2.0	.80	0.0	5.0	400m*	22n	270m	55	125	AA35	TO85	
74▼#	uPB7437C	NAND	TP	4	1	TTL	48m	.40	2.0	.80	0.0	5.0								

2. LOGIC BUFFERS/DRIVERS

IN ORDER OF: (1)BASIC LOGIC (2)CKTS/DEVICE
(3)MIN.OUTPUT CURR. & (4)TYPE NUMBER

LINE No.	TYPE NUMBER	FUNCT CODE	ORGANIZ	T E C H N	MINIMUM OUTPUT CURRENT (A)	MAX. OUTPUT VOLT. (V)	INPUT LOGIC LEVEL		RATED SUPPLY		MAX. NOISE IMMUNITY (V)	MAX. PROP. DELAY tpd (s)	MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS				
							HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)				(-)	(+)	LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO			
1	JANM38510/00303ACC	NAND	OC	4	2	TTL	48m	.40	5.5	2.0	.70	0.0	5.0	400m	30n	270m	55	125	AA35	DL98
2	JANM38510/00303BAA	NAND	OC	4	2	TTL	48m	.40	5.5	2.0	.70	0.0	5.0	400m	30n	270m	55	125	AA35	FP26
3	JANM38510/00303BAB	NAND	OC	4	2	TTL	48m	.40	5.5	2.0	.70	0.0	5.0	400m	30n	270m	55	125	AA35	FP26
4	JANM38510/00303BAC	NAND	OC	4	2	TTL	48m	.40	5.5	2.0	.70	0.0	5.0	400m	30n	270m	55	125	AA35	FP26
5	JANM38510/00303BCA	NAND	OC	4	2	TTL	48m	.40	5.5	2.0	.70	0.0	5.0	400m	30n	270m	55	125	AA35	DL98
6	JANM38510/00303BCB	NAND	OC	4	2	TTL	48m	.40	5.5	2.0	.70	0.0	5.0	400m	30n	270m	55	125	AA35	DL98
7	JANM38510/00303BCC	NAND	OC	4	2	TTL	48m	.40	5.5	2.0	.70	0.0	5.0	400m	30n	270m	55	125	AA35	DL98
8	JANM38510/00303BDA	NAND	OC	4	2	TTL	48m	.40	5.5	2.0	.70	0.0	5.0	400m	30n	270m	55	125	AA35	FP27
9	JANM38510/00303BDB	NAND	OC	4	2	TTL	48m	.40	5.5	2.0	.70	0.0	5.0	400m	30n	270m	55	125	AA35	FP27
10	JANM38510/00303CAA	NAND	OC	4	2	TTL	48m	.40	5.5	2.0	.70	0.0	5.0	400m	30n	270m	55	125	AA35	FP26
11	JANM38510/00303CAB	NAND	OC	4	2	TTL	48m	.40	5.5	2.0	.70	0.0	5.0	400m	30n	270m	55	125	AA35	FP26
12	JANM38510/00303CAC	NAND	OC	4	2	TTL	48m	.40	5.5	2.0	.70	0.0	5.0	400m	30n	270m	55	125	AA35	FP26
13	JANM38510/00303CCA	NAND	OC	4	2	TTL	48m	.40	5.5	2.0	.70	0.0	5.0	400m	30n	270m	55	125	AA35	DL98
14	JANM38510/00303CCB	NAND	OC	4	2	TTL	48m	.40	5.5	2.0	.70	0.0	5.0	400m	30n	270m	55	125	AA35	DL98
15	JANM38510/00303CCC	NAND	OC	4	2	TTL	48m	.40	5.5	2.0	.70	0.0	5.0	400m	30n	270m	55	125	AA35	DL98
16	JANM38510/00303CDA	NAND	OC	4	2	TTL	48m	.40	5.5	2.0	.70	0.0	5.0	400m	30n	270m	55	125	AA35	FP27
17	JANM38510/00303CDB	NAND	OC	4	2	TTL	48m	.40	5.5	2.0	.70	0.0	5.0	400m	30n	270m	55	125	AA35	FP27
18#	MIC5437J	NAND	TP	4	2	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	400m	22n	270m	55	125	AA20d	DL59a
19#	MIC5438J	NAND	OC	4	2	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	400m	22n	270m	55	125	AA35	DL59a
20#	MIC7437J	NAND	TP	4	2	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	400m	22n	270m	0	75	AA20d	DL59a
21#	MIC7437N	NAND	TP	4	2	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	400m	22n	270m	0	75	AA20d	DL24c
22#	MIC7438J	NAND	OC	4	2	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	400m	22n	270m	0	75	AA35	DL59a
23#	MIC7438N	NAND	OC	4	2	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	400m	22n	270m	0	75	AA35	DL24c
24	N7437A	NAND	TP	4	2	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	400m	22n	270m	0	70	AA20d	DL3a
25	N7437F	NAND	TP	4	2	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	400m	22n	270m	0	70	AA20d	DL16d
26	N7438A	NAND	OC	4	2	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	400m	22n	270m	0	70	AA35	DL3a
27	N7438F	NAND	OC	4	2	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	400m	22n	270m	0	70	AA35	DL16d
28	N7439A	NAND	TP	4	2	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	400m	22n	270m	0	70	AA59	DL3a
29	N7439F	NAND	TP	4	2	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	400m	22n	270m	0	70	AA59	DL16d
30	S5437F	NAND	TP	4	2	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	400m	22n	270m	55	125	AA20d	DL16d
31	S5437W	NAND	TP	4	2	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	400m	22n	270m	55	125	AA20d	FP14
32	S5438F	NAND	OC	4	2	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	400m	22n	270m	55	125	AA35	DL16d
33	S5438W	NAND	OC	4	2	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	400m	22n	270m	55	125	AA35	FP14
34	S5439F	NAND	TP	4	2	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	400m	22n	270m	55	125	AA59	DL16d
35	SN5437J	NAND	TP	4	2	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	1.0 t	22n	270m	55	125	AA20d	DL23
36	SN5437W	NAND	TP	4	2	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	1.0 t	22n	270m	55	125	AA20d	Δ004AA
37	SN5438J	NAND	OC	4	2	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	1.0 t	22n	270m	55	125	AA35	DL23
38	SN5438W	NAND	OC	4	2	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	1.0 t	22n	270m	55	125	AA35	Δ004AA
39	SN7437J	NAND	TP	4	2	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	1.0 t	22n	270m	0	70	AA20d	DL23
40	SN7437N	NAND	TP	4	2	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	1.0 t	22n	270m	0	70	AA20d	DL24
41	SN7438J	NAND	OC	4	2	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	1.0 t	22n	270m	0	70	AA35	DL23
42	SN7438N	NAND	OC	4	2	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	1.0 t	22n	270m	0	70	AA35	DL24
43#	MIC5438AJ	NAND	OC	4	2	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	400m	22n	270m	55	125	AA35	DL59a
44#	MIC7438AJ	NAND	OC	4	2	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	400m	22n	270m	0	75	AA35	DL59a
45#	MIC7438AN	NAND	OC	4	2	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	400m	22n	270m	0	75	AA35	DL24c
46#	SN5437J	NAND	TP	4	2	TTL	60m	.50	2.0	.80	0.0	5.0	6.5n	400m	55	125	AA38b	DL23		
47#	SN5437W	NAND	TP	4	2	TTL	60m	.50	2.0	.80	0.0	5.0	6.5n	400m	55	125	AA38b	Δ004AA		
48#	SN5438J	NAND	OC	4	2	TTL	60m	.50	2.0	.80	0.0	5.0	10n	400m	55	125	AA35	DL23		
49#	SN5438W	NAND	OC	4	2	TTL	60m	.50	2.0	.80	0.0	5.0	10n	400m	55	125	AA35	Δ004AA		
50#	SN74S37J	NAND	TP	4	2	TTL	60m	.50	2.0	.80	0.0	5.0	6.5n	400m	0	70	AA38b	DL23		
51#	SN74S37N	NAND	TP	4	2	TTL	60m	.50	2.0	.80	0.0	5.0	6.5n	400m	0	70	AA38b	DL24		
52#	SN74S38J	NAND	OC	4	2	TTL	60m	.50	2.0	.80	0.0	5.0	1.0 t	10n	400m	0	70	AA35	DL23	
53#	SN74S38N	NAND	OC	4	2	TTL	60m	.50	2.0	.80	0.0	5.0	1.0 t	10n	400m	0	70	AA35	DL24	
54	N74S37A	NAND	TP	4	2	TTL	60m	.50	5.5	2.0	.80	0.0	5.0	400m	6.5n	100m	0	70	AA32a	DL3a
55	N74S37F	NAND	TP	4	2	TTL	60m	.50	5.5	2.0	.80	0.0	5.0	400m	6.5n	100m	0	70	AA32a	DL16d
56	N74S38A	NAND	OC	4	2	TTL	60m	.50	5.5	2.0	.80	0.0	5.0	400m	10n	100m	0	70	AA36a	DL3a
57	N74S38F	NAND	OC	4	2	TTL	60m	.50	5.5	2.0	.80	0.0	5.0	400m	10n	100m	0	70	AA36a	DL16d
58	S54S37F	NAND	TP	4	2	TTL	60m	.50	5.5	2.0	.80	0.0	5.0	400m	6.5n	100m	55	125	AA32a	DL16d
59	S54S37W	NAND	TP	4	2	TTL	60m	.50	5.5	2.0	.80	0.0	5.0	400m	6.5n	100m	55	125	AA32a	FP14
60	S54S38F	NAND	OC	4	2	TTL	60m	.50	5.5	2.0	.80	0.0	5.0	400m	10n	100m	55	125	AA36a	DL16d
61	S54S38W	NAND	OC	4	2	TTL	60m	.50	5.5	2.0	.80	0.0	5.0	400m	10n	100m	55	125	AA36a	FP14
62#	MC677L	NAND	TP	6	2	DTL	12m	1.5	16	8.5t	6.5t	0.0	15	200n	246m t	30	75	AA97	DL116	
63#	MC677P	NAND	TP	6	2	DTL	12m	1.5	16	8.5t	6.5t	0.0	15	200n	246m t	30	75	AA97	DL30	
64#	MC678L	NAND	OC	6	2	DTL	12m	1.5	16	8.5t	6.5t	0.0	15	250n	192m t	30	75	AA96	DL116	
65#	MC678P	NAND	OC	6	2	DTL	12m	1.5	16	8.5t	6.5t	0.0	15	250n	192m t	30	75	AA96	DL30	
66#	SN54425J	NIV	3S	4	1	TTL	16m	.40	2.0	.80	0.0	5.0	18n	270m	55	125	AA39	DL23		
67#	SN54425W	NIV	3S	4	1	TTL	16m	.40	2.0	.80	0.0	5.0	18n	270m	55	125	AA39	Δ004AA		
68#	SN74425J	NIV	3S	4	1	TTL	16m	.40	2.0	.80	0.0	5.0	18n	270m	0	70	AA39	DL23		
69#	SN74425N	NIV	3S	4	1	TTL	16m	.40	2.0	.80	0.0	5.0	18n	270m	0	70	AA39	DL24		
70#	M53325P	NIV	3S	4	1	TTL	16m	.40	7.0	2.0	.80	0.0	5.0	18n	270m	0	75	AA39	T0116	
71#	SFF24050AEV	NIV	DC	6	1	CMS	8.0m	.50	9.99	.01%	0.0	10	4.5 t	140n	200m t	40	85	AA6	DL47a	
72#	SFF24050AKM	NIV	DC	6	1	CMS	8.0m	.50	9.99	.01%	0.0	10	4.5 t	140n	200m t	55	125	AA6	DL47a	
73	MC10195L	NIV	EC	6	1	ECL	24m	.81	-81Δ	-1.8*	5.2	0.0	2.8n t	254m	30	85</				

2. LOGIC BUFFERS/DRIVERS

IN ORDER OF: (1)BASIC LOGIC (2)CKTS/DEVICE
(3)MIN.OUTPUT CURR. & (4)TYPE NUMBER

LINE No.	TYPE NUMBER	FUNCT. CODE 1 BASIC LOGIC	ORGANIZ. 2 OUTP CKTS PER DEV	LOGIC 3 INPT PER CKT	T E C H N	MINIMUM OUTPUT CURRENT		MAX. OUTPUT VOLT. (V)	INPUT LOGIC LEVEL		RATED SUPPLY		MAX. NOISE IMMUNITY (V)	MAX. PROP. DELAY tpd (s)	MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS		
						I (A)	@ V _o (V)		HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)				(-) (°C)	(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO	
1	JANM38510/15302BDB	NIV	3S	4	1	TTL	16m	.40		2.0	.80	0.0	5.5	400m	22n	341m	55	125	AA40	FP27
2	JANM38510/15302CCA	NIV	3S	4	1	TTL	16m	.40		2.0	.80	0.0	5.5	400m	22n	341m	55	125	AA40	DL98
3	JANM38510/15302CCB	NIV	3S	4	1	TTL	16m	.40		2.0	.80	0.0	5.5	400m	22n	341m	55	125	AA40	DL98
4	JANM38510/15302CDA	NIV	3S	4	1	TTL	16m	.40		2.0	.80	0.0	5.5	400m	22n	341m	55	125	AA40	FP27
5	JANM38510/15302CDB	NIV	3S	4	1	TTL	16m	.40		2.0	.80	0.0	5.5	400m	22n	341m	55	125	AA40	FP27
6	SN54426J	NIV	3S	4	1	TTL	16m	.40		2.0	.80	0.0	5.0	400m	22n	341m	55	125	AA40	FP27
7	SN54426W	NIV	3S	4	1	TTL	16m	.40		2.0	.80	0.0	5.0	400m	22n	341m	55	125	AA37	DL23
8	SN74426J	NIV	3S	4	1	TTL	16m	.40		2.0	.80	0.0	5.0	400m	22n	341m	55	125	AA37	DL23
9	SN74426N	NIV	3S	4	1	TTL	16m	.40		2.0	.80	0.0	5.0	400m	22n	341m	55	125	AA37	DL23
10	N74125A	NIV	3S	4	1	TTL	16m	.40	5.5	2.0	.80	0.0	5.0	400m	18n	270m	0	70	AA39	DL3a
11	N74125F	NIV	3S	4	1	TTL	16m	.40	5.5	2.0	.80	0.0	5.0	400m	18n	270m	0	70	AA39	DL16d
12	N74126A	NIV	3S	4	1	TTL	16m	.40	5.5	2.0	.80	0.0	5.0	400m	18n	310m	0	70	AA40	DL3a
13	N74126F	NIV	3S	4	1	TTL	16m	.40	5.5	2.0	.80	0.0	5.0	400m	18n	310m	0	70	AA40	DL16d
14	S54125F	NIV	3S	4	1	TTL	16m	.40	5.5	2.0	.80	0.0	5.0	400m	18n	270m	55	125	AA39	DL16d
15	S54125W	NIV	3S	4	1	TTL	16m	.40	5.5	2.0	.80	0.0	5.0	400m	18n	270m	55	125	AA39	FP14
16	S54126F	NIV	3S	4	1	TTL	16m	.40	5.5	2.0	.80	0.0	5.0	400m	18n	310m	55	125	AA40	DL16d
17	S54126W	NIV	3S	4	1	TTL	16m	.40	5.5	2.0	.80	0.0	5.0	400m	18n	310m	55	125	AA40	FP14
18	SN74LS125J	NIV	3S	4	1	TTL	16m	.50	5.5	2.0	.80	0.0	5.0	1.0 †	18n	110m	0	70	AA34	DL23
19	SN74LS125N	NIV	3S	4	1	TTL	16m	.50	5.5	2.0	.80	0.0	5.0	1.0 †	18n	110m	0	70	AA34	DL24
20	SN74LS126J	NIV	3S	4	1	TTL	16m	.50	5.5	2.0	.80	0.0	5.0	1.0 †	18n	110m	0	70	AA37	DL23
21	SN74LS126N	NIV	3S	4	1	TTL	16m	.50	5.5	2.0	.80	0.0	5.0	1.0 †	18n	110m	0	70	AA37	DL24
22	SN54125J	NIV	TP	4	1	TTL	16m	.40	5.5	2.0	.80	0.0	5.0	1.0 †	18n	270m	55	125	AA39	DL23
23	SN54125W	NIV	TP	4	1	TTL	16m	.40	5.5	2.0	.80	0.0	5.0	1.0 †	18n	270m	55	125	AA39	Δ004AA
24	SN54126J	NIV	TP	4	1	TTL	16m	.40	5.5	2.0	.80	0.0	5.0	1.0 †	18n	310m	55	125	AA40	DL23
25	SN54126W	NIV	TP	4	1	TTL	16m	.40	5.5	2.0	.80	0.0	5.0	1.0 †	18n	310m	55	125	AA40	Δ004AA
26	SN74125J	NIV	TP	4	1	TTL	16m	.40	5.5	2.0	.80	0.0	5.0	1.0 †	18n	270m	0	70	AA39	DL23
27	SN74125N	NIV	TP	4	1	TTL	16m	.40	5.5	2.0	.80	0.0	5.0	1.0 †	18n	270m	0	70	AA39	DL24
28	SN74126J	NIV	TP	4	1	TTL	16m	.40	5.5	2.0	.80	0.0	5.0	1.0 †	18n	310m	0	70	AA40	DL23
29	SN74126N	NIV	TP	4	1	TTL	16m	.40	5.5	2.0	.80	0.0	5.0	1.0 †	18n	310m	0	70	AA40	DL24
30	M53326P	NIV	3S	4	1	TTL	16m	.40	7.0	2.0	.80	0.0	5.0		18n	310m	0	75	AA40	TO116
31	MB84050	NIV	6	1	MOS				9.99	0.1%	0.0	10		200m	55	125	AA66	DL17r		
32	MB84050M	NIV	6	1	MOS				9.99	0.1%	0.0	10		200m	40	85	AA66	DL17q		
33	HEF40097P	NIV	3S	6	1	CMS	2.0m	.50	15	7.0	3.0	0.0	10		400m	40	85	AA113	DL4g	
34	JANM38510/05502AEA	NIV	DC	6	1	CMS	2.1m	.50		10	2.1	0.0	12.5	350m	160n	200m	55	125	AA66	DL99
35	JANM38510/05502AFA	NIV	DC	6	1	CMS	2.1m	.50		10	2.1	0.0	12.5	350m	160n	200m	55	125	AA66	FP28
36	JANM38510/05502BEA	NIV	DC	6	1	CMS	2.1m	.50		10	2.1	0.0	12.5	350m	160n	200m	55	125	AA66	DL99
37	JANM38510/05502BEB	NIV	DC	6	1	CMS	2.1m	.50		10	2.1	0.0	12.5	350m	160n	200m	55	125	AA66	DL99
38	JANM38510/05502BEC	NIV	DC	6	1	CMS	2.1m	.50		10	2.1	0.0	12.5	350m	160n	200m	55	125	AA46	DL99
39	JANM38510/05502BFA	NIV	DC	6	1	CMS	2.1m	.50		10	2.1	0.0	12.5	350m	160n	200m	55	125	AA46	DL99
40	JANM38510/05502BFB	NIV	DC	6	1	CMS	2.1m	.50		10	2.1	0.0	12.5	350m	160n	200m	55	125	AA66	FP28
41	JANM38510/05502BFC	NIV	DC	6	1	CMS	2.1m	.50		10	2.1	0.0	12.5	350m	160n	200m	55	125	AA46	FP28
42	JANM38510/05502CEA	NIV	DC	6	1	CMS	2.1m	.50		10	2.1	0.0	12.5	350m	160n	200m	55	125	AA46	FP28
43	JANM38510/05502CEB	NIV	DC	6	1	CMS	2.1m	.50		10	2.1	0.0	12.5	350m	160n	200m	55	125	AA66	DL99
44	JANM38510/05502CEC	NIV	DC	6	1	CMS	2.1m	.50		10	2.1	0.0	12.5	350m	160n	200m	55	125	AA46	DL99
45	JANM38510/05502CFA	NIV	DC	6	1	CMS	2.1m	.50		10	2.1	0.0	12.5	350m	160n	200m	55	125	AA46	DL99
46	JANM38510/05502CFB	NIV	DC	6	1	CMS	2.1m	.50		10	2.1	0.0	12.5	350m	160n	200m	55	125	AA66	FP28
47	JANM38510/05502CFC	NIV	DC	6	1	CMS	2.1m	.50		10	2.1	0.0	12.5	350m	160n	200m	55	125	AA46	FP28
48	JANM38510/05504AEA	NIV	DC	6	1	CMS	2.1m	.50		10	2.1	0.0	12.5	350m	160n	200m	55	125	AA46	FP28
49	JANM38510/05504AEB	NIV	DC	6	1	CMS	2.1m	.50		10	2.1	0.0	12.5	350m	160n	200m	55	125	AA46	DL99
50	JANM38510/05504AEC	NIV	DC	6	1	CMS	2.1m	.50		10	2.1	0.0	12.5	350m	160n	200m	55	125	AA46	DL99
51	JANM38510/05504AFA	NIV	DC	6	1	CMS	2.1m	.50		10	2.1	0.0	12.5	350m	160n	200m	55	125	AA46	DL99
52	JANM38510/05504BEA	NIV	DC	6	1	CMS	2.1m	.50		10	2.1	0.0	12.5	350m	160n	200m	55	125	AA46	FP28
53	JANM38510/05504BEB	NIV	DC	6	1	CMS	2.1m	.50		10	2.1	0.0	12.5	350m	160n	200m	55	125	AA46	DL99
54	JANM38510/05504BEC	NIV	DC	6	1	CMS	2.1m	.50		10	2.1	0.0	12.5	350m	160n	200m	55	125	AA46	DL99
55	JANM38510/05504BFA	NIV	DC	6	1	CMS	2.1m	.50		10	2.1	0.0	12.5	350m	160n	200m	55	125	AA46	DL99
56	JANM38510/05504BFB	NIV	DC	6	1	CMS	2.1m	.50		10	2.1	0.0	12.5	350m	160n	200m	55	125	AA46	FP28
57	JANM38510/05504BFC	NIV	DC	6	1	CMS	2.1m	.50		10	2.1	0.0	12.5	350m	160n	200m	55	125	AA46	FP28
58	JANM38510/05504CEA	NIV	DC	6	1	CMS	2.1m	.50		10	2.1	0.0	12.5	350m	160n	200m	55	125	AA46	FP28
59	JANM38510/05504CEB	NIV	DC	6	1	CMS	2.1m	.50		10	2.1	0.0	12.5	350m	160n	200m	55	125	AA46	DL99
60	JANM38510/05504CEC	NIV	DC	6	1	CMS	2.1m	.50		10	2.1	0.0	12.5	350m	160n	200m	55	125	AA46	DL99
61	JANM38510/05504CFA	NIV	DC	6	1	CMS	2.1m	.50		10	2.1	0.0	12.5	350m	160n	200m	55	125	AA46	DL99
62	JANM38510/05504CFB	NIV	DC	6	1	CMS	2.1m	.50		10	2.1	0.0	12.5	350m	160n	200m	55	125	AA46	FP28
63	JANM38510/05504CFC	NIV	DC	6	1	CMS	2.1m	.50		10	2.1	0.0	12.5	350m	160n	200m	55	125	AA46	FP28
64	TF4050AJ	NIV	DC	6	1	CMS	2.1m	.50	15	3.5	1.5	0.0	12.5	350m	160n	200m	55	125	AA46	FP28
65	TF4050AN	NIV	DC	6	1	CMS	3.0m	.40	15	3.5	1.5	0.0	5.0	1.0 †	180n	200m	55	125	AA46	DL25
66	TP4050AJ	NIV	DC	6	1	CMS	3.0m	.40	15	3.5	1.5	0.0	5.0	1.0 †	250n	200m	40	85	AA46	DL25
67	TP4050AN	NIV	DC	6	1	CMS	3.0m	.40	15	3.5	1.5	0.0	5.0	1.0 †	250n	200m	40	85	AA46	DL26
68	SN54LS63J	NIV	TP	6	1	TTL	4.0m	.40	5.5	.60	1.75	0.0	5.0	1.0 †	45n	80m	55	125	AA33	DL23
69	SN54LS63W	NIV	TP	6	1	TTL	4.0m	.40	5.5	.60	1.75	0.0	5.0	1.0 †	45n	80m	55	125	AA33	Δ004AA
70	SN54LS365J	NIV	3S	6	1	TTL	8.0m	.40	5.5	2.0	.70	0.0	5.0	1.0 †	22n	120m	55	125	AA41	DL25
71	SN54LS365W	NIV	3S																	

2. LOGIC BUFFERS/DRIVERS

IN ORDER OF: (1) BASIC LOGIC (2) CKTS/DEVICE
(3) MIN. OUTPUT CURR. & (4) TYPE NUMBER

LINE No.	TYPE NUMBER	FUNCT. CODE		ORGANIZ.		T E C	MINIMUM		MAX. OUTPUT VOLT. (V)	INPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. NOISE IMMUNITY (V)	MAX. PROP. DELAY tpd (s)	MAX. OPERATE. PWR. DISS. (W)	OPER. TEMP. (°C)	DRAWINGS				
		1 BASIC LOGIC	2 OUTP CONN	2 CKTS PER DEV	2 LOGIC INPT PER CKT		3 H N	I (A)		@ Vo (V)	HIGH (min) (V)	LOW (max) (V)	NEG. (V)					POS. (V)	(-) (°C)	(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO
1	54LS365DM	NIV	3S	6	1	TTL	12m	40	2.0	.70	0.0	5.0	300m*	16n	120m	55	125	AA41	DL17f			
2	54LS365FM	NIV	3S	6	1	TTL	12m	40	2.0	.70	0.0	5.0	300m*	16n	120m	55	125	AA41	FP13			
3	54LS367DM	NIV	3S	6	1	TTL	12m	40	2.0	.70	0.0	5.0	300m*	16n	120m	55	125	AA43	DL17f			
4	54LS367FM	NIV	3S	6	1	TTL	12m	40	2.0	.70	0.0	5.0	300m*	16n	120m	55	125	AA43	FP13			
5	74LS365DC	NIV	3S	6	1	TTL	12m	40	2.0	.80	0.0	5.0	300m*	16n	120m	0	75	AA41	DL17f			
6	74LS365FC	NIV	3S	6	1	TTL	12m	40	2.0	.80	0.0	5.0	300m*	16n	120m	0	75	AA41	FP13			
7	74LS365PC	NIV	3S	6	1	TTL	12m	40	2.0	.80	0.0	5.0	300m*	16n	120m	0	75	AA41	DL52			
8	74LS367DC	NIV	3S	6	1	TTL	12m	40	2.0	.80	0.0	5.0	300m*	16n	120m	0	75	AA43	DL17f			
9	74LS367FC	NIV	3S	6	1	TTL	12m	40	2.0	.80	0.0	5.0	300m*	16n	120m	0	75	AA43	FP13			
10	74LS367PC	NIV	3S	6	1	TTL	12m	40	2.0	.80	0.0	5.0	300m*	16n	120m	0	75	AA43	DL52			
11	MC14503BCL	NIV	3S	6	1	CMS	13m	1.5	15	14.9	0.05	0.0	15	8.2 ↑	50n	60u↓	40	85	AA8	DL17a		
12	MC14503BCP	NIV	3S	6	1	CMS	13m	1.5	15	14.9	0.05	0.0	15	8.2 ↑	50n	60u↓	40	85	AA8	DL30		
13	SN74LS365J	NIV	3S	6	1	TTL	16m	50	5.5	2.0	.80	0.0	5.0	1.0 ↑	22n	120m	0	70	AA41	DL25		
14	SN74LS365N	NIV	3S	6	1	TTL	16m	50	5.5	2.0	.80	0.0	5.0	1.0 ↑	22n	120m	0	70	AA41	DL26		
15	SN74LS367J	NIV	3S	6	1	TTL	16m	50	5.5	2.0	.80	0.0	5.0	1.0 ↑	22n	120m	0	70	AA43	DL25		
16	SN74LS367N	NIV	3S	6	1	TTL	16m	50	5.5	2.0	.80	0.0	5.0	1.0 ↑	22n	120m	0	70	AA43	DL26		
17	SN5407J	NIV	OC	6	1	TTL	16m	40	5.5	2.0	.80	0.0	5.0	1.0 ↑	30n	205m	55	125	AA28	DL23		
18	SN5407W	NIV	OC	6	1	TTL	16m	40	5.5	2.0	.80	0.0	5.0	1.0 ↑	30n	205m	55	125	AA28	Δ004AA		
19	SN5417J	NIV	OC	6	1	TTL	16m	40	5.5	2.0	.80	0.0	5.0	1.0 ↑	30n	205m	55	125	AA28	DL23		
20	SN5417W	NIV	OC	6	1	TTL	16m	40	5.5	2.0	.80	0.0	5.0	1.0 ↑	30n	205m	55	125	AA28	Δ004AA		
21	SN7407J	NIV	OC	6	1	TTL	16m	40	5.5	2.0	.80	0.0	5.0	1.0 ↑	30n	205m	0	70	AA28	DL23		
22	SN7407N	NIV	OC	6	1	TTL	16m	40	5.5	2.0	.80	0.0	5.0	1.0 ↑	30n	205m	0	70	AA28	DL24		
23	SN7417J	NIV	OC	6	1	TTL	16m	40	5.5	2.0	.80	0.0	5.0	1.0 ↑	30n	205m	0	70	AA28	DL23		
24	SN7417N	NIV	OC	6	1	TTL	16m	40	5.5	2.0	.80	0.0	5.0	1.0 ↑	30n	205m	0	70	AA28	DL24		
25#	TL7407N	NIV	OC	6	1	TTL	16m	40	5.5	2.0	.80	0.0	5.0	1.0 ↑	30n	205m	0	70	AA28	DL23		
26#	TL7417N	NIV	OC	6	1	TTL	16m	40	5.5	2.0	.80	0.0	5.0	1.0 ↑	30n	205m	0	70	AA28	DL23		
27#	M53207P	NIV	OC	6	1	TTL	16m	40	7.0	2.0	.80	0.0	5.0		30n	205m	0	75	AA28	TO116		
28#	M53217P	NIV	OC	6	1	TTL	16m	40	7.0	2.0	.80	0.0	5.0		30n	205m	0	75	AA28	TO116		
29#	MC5417L	NIV	OC	6	1	TTL	16m	40	15	2.4↑	.40↑	0.0	5.0		26n	145m↑	55	125	AA63	TO116		
30#	MC7417L	NIV	OC	6	1	TTL	16m	40	15	2.4↑	.40↑	0.0	5.0		26n	145m↑	0	70	AA63	TO116		
31#	MC7417P	NIV	OC	6	1	TTL	16m	40	15	2.4↑	.40↑	0.0	5.0		26n	145m↑	0	70	AA63	TO116		
32	MC14503BAL	NIV	3S	6	1	CMS	16m	1.5	15	14.9	0.05	0.0	15	8.2 ↑	50n	30u↓	55	125	AA8	DL17a		
33#	MIC5417J	NIV	OC	6	1	TTL	16m	40	15	2.0	.80	0.0	5.0	400m	30n	205m	55	125	AA28	DL59a		
34#	MIC7417J	NIV	OC	6	1	TTL	16m	40	15	2.0	.80	0.0	5.0	440m	30n	205m	0	75	AA28	DL59a		
35#	MIC7417N	NIV	OC	6	1	TTL	16m	40	15	2.0	.80	0.0	5.0	400m	30n	205m	0	75	AA28	DL24c		
36#	DS1630J	NIV	TP	6	1	TTL	16m	1.6	16	2.0	1.6%	0.0	5.0		75n	50u↑	55	125	AA54	DL16b		
37	DS3630J	NIV	TP	6	1	TTL	16m	1.5	16	2.1	1.5%	0.0	5.0		75n	50u↑	0	70	AA54	DL54		
38	DS3630N	NIV	TP	6	1	TTL	16m	1.5	16	2.1	1.5%	0.0	5.0		75n	50u↑	0	70	AA54	DL54		
39#	MC5407L	NIV	OC	6	1	TTL	16m	40	30	2.4↑	.40↑	0.0	5.0		26n	145m↑	55	125	AA63	TO116		
40#	MC7407L	NIV	OC	6	1	TTL	16m	40	30	2.4↑	.40↑	0.0	5.0		26n	145m↑	0	70	AA63	TO116		
41#	MC7407P	NIV	OC	6	1	TTL	16m	40	30	2.4↑	.40↑	0.0	5.0		26n	145m↑	0	70	AA63	TO116		
42#	MIC5407J	NIV	OC	6	1	TTL	16m	40	30	2.0	.80	0.0	5.0	400m	30n	205m	55	125	AA28	DL59a		
43#	MIC7407J	NIV	OC	6	1	TTL	16m	40	30	2.0	.80	0.0	5.0	400m	30n	205m	0	75	AA28	DL59a		
44#	MIC7407N	NIV	OC	6	1	TTL	16m	40	30	2.0	.80	0.0	5.0	400m	30n	205m	0	75	AA28	DL24c		
45	MC14050BAL	NIV	DC	6	1	CMS	24m	1.5	15	11.2	3.7	0.0	15	2.5 *	60n	60u↓	55	125	AA46	DL17a		
46	MC14050BCL	NIV	DC	6	1	CMS	24m	1.5	15	11.2	3.7	0.0	15	2.5 *	60n	200u↓	40	85	AA46	DL17a		
47	MC14050BCP	NIV	DC	6	1	CMS	24m	1.5	15	11.2	3.7	0.0	15	2.5 *	60n	200u↓	40	85	AA46	DL30		
48#	ITT5417J	NIV	OC	6	1	TTL	30m	.70	15	2.0	.80	0.0	5.0	400m*	10n	150m	55	125	AA92	DL3d		
49	JANM38510/00804BAA	NIV	OC	6	1	TTL	30m	.70	15	2.0	.80	0.0	5.0	400m	35n	175m	55	125	AA63	FP26		
50	JANM38510/00804BAB	NIV	OC	6	1	TTL	30m	.70	15	2.0	.80	0.0	5.0	400m	35n	175m	55	125	AA63	FP26		
51	JANM38510/00804BAC	NIV	OC	6	1	TTL	30m	.70	15	2.0	.80	0.0	5.0	400m	35n	175m	55	125	AA63	FP26		
52	JANM38510/00804BCA	NIV	OC	6	1	TTL	30m	.70	15	2.0	.80	0.0	5.0	400m	35n	175m	55	125	AA63	DL98		
53	S5417F	NIV	OC	6	1	TTL	30m	.40	15	2.0	.80	0.0	5.0	400m	30n	205m	55	125	AA28	DL16d		
54	S5417W	NIV	OC	6	1	TTL	30m	.40	15	2.0	.80	0.0	5.0	400m	30n	205m	55	125	AA28	FP14		
55#	SFC417EM	NIV	OC	6	1	TTL	30m	.70	15	2.0	.80	0.0	5.0	400m*	30n	205m	55	125	AA28	TO116		
56#	SFC417ET	NIV	OC	6	1	TTL	30m	.70	15	2.0	.80	0.0	5.0	400m*	30n	205m	25	85	AA28	TO116		
57#	SFC417KM	NIV	OC	6	1	TTL	30m	.70	15	2.0	.80	0.0	5.0	400m*	30n	205m	55	125	AA28	TO116		
58#	SFC417PM	NIV	OC	6	1	TTL	30m	.70	15	2.0	.80	0.0	5.0	400m*	30n	205m	55	125	AA28	TO85		
59#	ITT5407J	NIV	OC	6	1	TTL	30m	.70	30	2.0	.80	0.0	5.0	400m*	10n	150m	55	125	AA92	DL3d		
60#	JANM38510/00803ACB	NIV	OC	6	1	TTL	30m	.70	30	2.0	.80	0.0	5.0	400m	35n	175m	55	125	AA63	DL98		
61	JANM38510/00803BAA	NIV	OC	6	1	TTL	30m	.70	30	2.0	.80	0.0	5.0	400m	35n	175m	55	125	AA63	FP26		
62	JANM38510/00803BAB	NIV	OC	6	1	TTL	30m	.70	30	2.0	.80	0.0	5.0	400m	35n	175m	55	125	AA63	FP26		
63	JANM38510/00803BAC	NIV	OC	6	1	TTL	30m	.70	30	2.0	.80	0.0	5.0	400m	35n	175m	55	125	AA63	FP26		
64#	JANM38510/00803BBB	NIV	OC	6	1	TTL	30m	.70	30	2.0	.80	0.0	5.0	400m	35n	175m	55	125	AA63	FP26		
65	JANM38510/00803BCA	NIV	OC	6	1	TTL	30m	.70	30	2.0	.80	0.0	5.0	400m	35n	175m	55	125	AA63	FP21b		
66	JANM38510/00803BCB	NIV	OC	6	1	TTL	30m	.70	30	2.0	.80	0.0	5.0	400m	35n	175m	55	125	AA63	DL98		
67	JANM38510/00803BCC	NIV	OC	6	1	TTL	30m	.70	30	2.0	.80	0.0	5.0	400m	35n	175m	55	125	AA63	DL98		
68	JANM38510/00803BDB	NIV	OC	6	1	TTL	30m	.70	30	2.0	.80	0.0	5.0	400m	35n	175m	55	125	AA63	DL98		
69	JANM38510/00803CAA	NIV	OC	6	1	TTL	30m	.70	30	2.0	.80	0.0	5.0	400m	35n	175m	55	125	AA63	FP27		
70	JANM38510/00803CAB	NIV	OC	6	1	TTL	30m	.70	30	2.0	.80	0.0	5.0	400m	35n	175m	55	125	AA63	FP26		
71	JAN																					

2. LOGIC BUFFERS/DRIVERS

IN ORDER OF: (1)BASIC LOGIC (2)CKTS/DEVICE
(3)MIN.OUTPUT CURR. & (4)TYPE NUMBER

LINE No.	TYPE NUMBER	FUNCT. CODE		ORGANIZ. DEVT	T E C H N I C I A N	MINIMUM OUTPUT CURRENT		MAX. OUTPUT VOLT. (V)	INPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. NOISE IMMUN. -ITY (V)	MAX. PROP. DELAY tpd (s)	MAX. OPERATE. PWR. DISS. (W)	OPER. TEMP.		DRAWINGS		
		1 BASIC LOGIC	2 OUTP. CONN. PER DEV			1 LOGIC CKTS	2 INPT PER CKT		I (A)	@ Vo (V)	HIGH (min) (V)	LOW (max) (V)				NEG. (V)	POS. (V)	(-) (°C)	(+) (°C)	LOGIC DWG. No.
1▼	SN74367AJ	NIV	3S	6	1	TTL	32m	.40	2.0	.80	0.0	5.0	22n	425m	0	70	AA43	DL25		
2▼	SN74367AN	NIV	3S	6	1	TTL	32m	.40	2.0	.80	0.0	5.0	22n	425m	0	70	AA43	DL25		
3	SN54365J	NIV	3S	6	1	TTL	32m	.40	1.5	2.0	0.0	5.0	1.0 ↑	22n	425m	55	125	AA11	DL25	
4	SN54365W	NIV	3S	6	1	TTL	32m	.40	1.5	2.0	0.0	5.0	1.0 ↑	22n	425m	55	125	AA11	Δ004AG	
5	SN74365J	NIV	3S	6	1	TTL	32m	.40	1.5	2.0	0.0	5.0	1.0 ↑	22n	425m	0	70	AA11	DL25	
6	SN74365N	NIV	3S	6	1	TTL	32m	.40	1.5	2.0	0.0	5.0	1.0 ↑	22n	425m	0	70	AA11	DL25	
7	SN54367J	NIV	TP	6	1	TTL	32m	.40	5.5	2.0	0.0	5.0	1.0 ↑	22n	425m	55	125	AA13	DL25	
8	SN54367W	NIV	TP	6	1	TTL	32m	.40	5.5	2.0	0.0	5.0	1.0 ↑	22n	425m	55	125	AA13	Δ004AG	
9	SN74367J	NIV	TP	6	1	TTL	32m	.40	5.5	2.0	0.0	5.0	1.0 ↑	22n	425m	0	70	AA13	DL25	
10	SN74367N	NIV	TP	6	1	TTL	32m	.40	5.5	2.0	0.0	5.0	1.0 ↑	22n	425m	0	70	AA13	DL25	
11▼	ITT7417J	NIV	OC	6	1	TTL	40m	.70	15	2.0	0.0	5.0	400m*	10n	150m	0	75	AA92	DL3d	
12▼	ITT7417N	NIV	OC	6	1	TTL	40m	.70	15	2.0	0.0	5.0	400m*	10n	150m	0	75	AA92	DL3c	
13	N7417A	NIV	OC	6	1	TTL	40m	.70	15	2.0	0.0	5.0	400m	30n	205m	0	70	AA28	DL3a	
14	N7417F	NIV	OC	6	1	TTL	40m	.70	15	2.0	0.0	5.0	400m	30n	205m	0	70	AA28	DL16d	
15#	SFC417E	NIV	OC	6	1	TTL	40m	.70	15	2.0	0.0	5.0	400m*	30n	205m	0	70	AA28	TO116	
16▼	ITT7407J	NIV	OC	6	1	TTL	40m	.70	30	2.0	0.0	5.0	400m*	10n	150m	0	75	AA92	DL3d	
17▼	ITT7407N	NIV	OC	6	1	TTL	40m	.70	30	2.0	0.0	5.0	400m*	10n	150m	0	75	AA92	DL3a	
18	N7407A	NIV	OC	6	1	TTL	40m	.70	30	2.0	0.0	5.0	400m*	30n	205m	0	70	AA28	DL3a	
19	N7407F	NIV	OC	6	1	TTL	40m	.70	30	2.0	0.0	5.0	400m*	30n	205m	0	70	AA28	DL16d	
20#	SFC407E	NIV	OC	6	1	TTL	40m	.70	30	2.0	0.0	5.0	400m*	30n	205m	0	70	AA28	TO116	
21▼	8T95B	NIV	3S	6	1	TTL	48m	.50	2.0	.80	0.0	5.0	13n	325m†	0	75	AA106	DL4a		
22▼	8T95F	NIV	3S	6	1	TTL	48m	.50	2.0	.80	0.0	5.0	13n	325m†	0	75	AA106	DL17h		
23▼	8T97B	NIV	3S	6	1	TTL	48m	.50	2.0	.80	0.0	5.0	13n	325m†	0	75	AA108	DL4a		
24▼	8T97F	NIV	3S	6	1	TTL	48m	.50	2.0	.80	0.0	5.0	13n	325m†	0	75	AA108	DL17h		
25▼	MC8T95L	NIV	3S	6	1	DTL	48m	.50	2.0	.80	0.0	5.0	25n	514m	0	75	AA75	DL17b		
26▼	MC8T95P	NIV	3S	6	1	DTL	48m	.50	2.0	.80	0.0	5.0	25n	514m	0	75	AA75	DL30		
27▼	MC8T97L	NIV	3S	6	1	DTL	48m	.50	2.0	.80	0.0	5.0	25n	514m	0	75	AA18	DL17b		
28▼	MC8T97P	NIV	3S	6	1	DTL	48m	.50	2.0	.80	0.0	5.0	25n	514m	0	75	AA18	DL30		
29▼	XC8T95L	NIV	3S	6	1	DTL	48m	.50	2.0	.80	0.0	5.25	12n	514m	0	75	AA75	DL17a		
30	XC8T95P	NIV	3S	6	1	DTL	48m	.50	2.0	.80	0.0	5.25	12n	514m	0	75	AA75	DL30		
31	XC8T97L	NIV	3S	6	1	DTL	48m	.50	2.0	.80	0.0	5.25	12n	514m	0	75	AA18	DL17a		
32	XC8T97P	NIV	3S	6	1	DTL	48m	.50	2.0	.80	0.0	5.25	12n	514m	0	75	AA18	DL30		
33	394AL	NOR	OC	2	2	DTL	250m	.70	6.5Δ	5.0*	0.0	16	3.5 *	500n	640m	30	70	AA1d	DL14	
34	394CL	NOR	OC	2	2	DTL	250m	.70	6.5Δ	5.0*	0.0	16	3.5 *	500n	640m	30	70	AA1d	DL14	
35	TP4301AJ	NOR	DC	4	2	CMS	1.3m	.40	15	3.5	1.5	0.0	5.0	1.0 ↑	350n	200m	40	85	AA47	DL23
36	TP4301AN	NOR	DC	4	2	CMS	1.3m	.40	15	3.5	1.5	0.0	5.0	1.0 ↑	350n	200m	40	85	AA47	DL24
37	TF4301AJ	NOR	DC	4	2	CMS	1.6m	.40	15	3.5	1.5	0.0	5.0	1.0 ↑	250n	200m	55	125	AA47	DL23
38	TF4301AN	NOR	DC	4	2	CMS	1.6m	.40	15	3.5	1.5	0.0	5.0	1.0 ↑	250n	200m	55	125	AA47	DL24
39	54LS28CH	NOR	TP	4	2	TTL	12m	.40	2.0	.70	0.0	5.0	300m*	14n	60m	55	125	AA16	CH	
40	54LS28J	NOR	TP	4	2	TTL	12m	.40	2.0	.70	0.0	5.0	300m*	14n	60m	55	125	AA16	DL16e	
41	54LS28W	NOR	TP	4	2	TTL	12m	.40	2.0	.70	0.0	5.0	300m*	14n	60m	55	125	AA16	FP21	
42	N74LS28A	NOR	TP	4	2	TTL	12m	.40	5.5	2.0	.80	0.0	5.0	500m	24n	69m	0	70	AA16	DL3a
43	N74LS28F	NOR	TP	4	2	TTL	12m	.40	5.5	2.0	.80	0.0	5.0	500m	24n	69m	0	70	AA16	DL16d
44	S54LS28F	NOR	TP	4	2	TTL	12m	.40	5.5	2.0	.70	0.0	5.0	700m	24n	69m	55	125	AA16	DL16d
45	S54LS28W	NOR	TP	4	2	TTL	12m	.40	5.5	2.0	.70	0.0	5.0	700m	24n	69m	55	125	AA16	FP14
46	SN54LS33J	NOR	OC	4	2	TTL	12m	.40	5.5	2.0	.70	0.0	5.0	1.0 ↑	28n	69m	55	125	AA30	DL23
47	SN54LS33W	NOR	OC	4	2	TTL	12m	.40	5.5	2.0	.70	0.0	5.0	1.0 ↑	28n	69m	55	125	AA30	Δ004AG
48	54LS33CH	NOR	OC	4	2	TTL	12m	.40	7.0	2.0	.70	0.0	5.0	300m*	25n	69m	55	125	AA30	CH
49	54LS33J	NOR	OC	4	2	TTL	12m	.40	7.0	2.0	.70	0.0	5.0	300m*	25n	69m	55	125	AA30	DL16e
50	54LS33W	NOR	OC	4	2	TTL	12m	.40	7.0	2.0	.70	0.0	5.0	300m*	25n	69m	55	125	AA30	FP21
51	SN74LS33J	NOR	OC	4	2	TTL	24m	.50	5.5	2.0	.80	0.0	5.0	1.0 ↑	28n	69m	0	70	AA30	DL23
52	SN74LS33N	NOR	OC	4	2	TTL	24m	.50	5.5	2.0	.80	0.0	5.0	1.0 ↑	28n	69m	0	70	AA30	DL24
53▼	SN74LS28N	NOR	TP	4	2	TTL	48m	.50	2.0	.80	0.0	5.0	1.0 ↑	24n	69m	0	70	AA16	DL24	
54#	MIC5428J	NOR	TP	4	2	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	400m	15n	280m	55	125	AA15	DL59a
55#	MIC5433J	NOR	OC	4	2	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	400m	23n	260m	55	125	AA29	DL59a
56#	MIC7428J	NOR	TP	4	2	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	400m	15n	280m	0	75	AA15	DL59a
57#	MIC7428N	NOR	TP	4	2	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	400m	15n	280m	0	75	AA15	DL24c
58#	MIC7433J	NOR	OC	4	2	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	400m	23n	260m	0	75	AA29	DL59a
59#	MIC7433N	NOR	OC	4	2	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	400m	23n	260m	0	75	AA29	DL24c
60	N7428A	NOR	TP	4	2	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	400m	18n	285m	0	70	AA15	DL3a
61	N7428F	NOR	TP	4	2	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	400m	18n	285m	0	70	AA15	DL16d
62	N74128A	NOR	4	2	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	400m	18n	285m	0	70	AA15	DL3a	
63	N74128F	NOR	4	2	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	400m	18n	285m	0	70	AA15	DL16d	
64	S5428F	NOR	TP	4	2	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	400m	18n	285m	55	125	AA15	DL16d
65	S5428W	NOR	TP	4	2	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	400m	18n	285m	55	125	AA15	FP14
66	S54128F	NOR	4	2	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	400m	18n	285m	55	125	AA15	DL16d	
67	S54128W	NOR	4	2	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	400m	18n	285m	55	125	AA15	FP14	
68	SN54LS28J	NOR	TP	4	2	TTL	48m	.40	5.5	2.0	.70	0.0	5.0	1.0 ↑	24n	69m	55	125	AA16	DL23
69	SN54LS28W	NOR	TP	4	2	TTL	48m	.40	5.5	2.0	.70	0.0	5.0	1.0 ↑	24n	69m	55	125	AA16	Δ004AA
70	SN74LS28J	NOR	TP	4	2	TTL	48m	.50	5.5	2.0	.80	0.0	5.0	1.0 ↑	24n	69m	0	70	AA16	DL23
71	SN5428J	NOR	TP	4	2	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	1.0 ↑	18n	285m	55	125	AA15	DL23
72	SN5428W	NOR	TP	4	2	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	1.0 ↑	18n	285m	55	125	AA15	Δ004AA
73	SN5433J	NOR	OC	4	2	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	1.0 ↑	24n	285m	55	125	AA29	DL23
74	SN5433W	NOR	OC	4	2	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	1.0 ↑	24n	285m	55	125	AA29	Δ004AG
75	SN7428J	NOR	TP	4	2	TTL	48m	.40	5.5	2.0	.80	0.0	5.0	1.0 ↑	18n					

3. LINE DRIVERS/TRANSMITTERS

IN ORDER OF: (1) OUTPUT MODE (2) CKTS/DEVICE
(3) TYPICAL OUTPUT VOLTAGE & (4) TYPE NUMBER

LINE No.	TYPE NUMBER	OUTPUT MODE	CKTS PER DEV.	TYP. OUTPUT VOLTAGE		MIN. OUTPUT SINK CURRENT I (A)	MAX. OUTPUT RESIS (Ω)	T E C H N	INPUT LOGIC LEVEL		RATED SUPPLY SPAN		PROP. DELAY tpd (s)	MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS	
				HIGH (V)	LOW (V)				HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)			(-) (°C)	(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO
1#	1414	D	8			40m	.40	TTL	1.8%	40%	0.0	5.0	12n	720m	0	70	AB27	PC2
2#	SP721BE	D	1	.02	-.02	8.0m	.80	TTL	2.0	.80	5.0	5.0	15n	225m	0	70	AB27	DL59
3#	SP721BF	D	1	.02	-.02	8.0m	.80	TTL	2.0	.80	5.0	5.0	15n	225m	0	70	AB27	FP8
4#	SP721BT	D	1	.02	-.02	8.0m	.80	TTL	2.0	.80	5.0	5.0	15n	225m	0	70	AB27	CN8
5#	ZN1004E	D	1	7.0	-12	10m	-6.0	TTL	2.0	.90	9.0	4.5	21n	335m	0	70	AB39	DL45e
6#	MB427	D	2					TTL	2.0	.80	0.0	5.0		250m	0	70	AB6	DL17r
7#	MB427M	D	2					TTL	2.0	.80	0.0	5.0		250m	0	70	AB6	DL17g
8	MC75109L*	D	2	.006	0.0	3.5m		TTL	2.0	.80	5.0	5.0	25n	150m	0	70	AB28	TO116
9	MC75109P	D	2	.006	0.0	3.5m		TTL	2.0	.80	5.0	5.0	25n	150m	0	70	AB28	DL29
10	SN55109J	D	2	.006	0.0	6.0m		TTL	2.0	.80	5.0	5.0	25n	90m	55	125	AB2	DL45c
11	SN55109W	D	2	.006	0.0	6.0m		TTL	2.0	.80	5.0	5.0	25n	90m	55	125	AB2	FP21a
12	SN75109J	D	2	.006	0.0	6.0m		TTL	2.0	.80	5.0	5.0	25n	90m	0	70	AB2	DL45c
13	SN75109N	D	2	.006	0.0	6.0m		TTL	2.0	.80	5.0	5.0	25n	90m	0	70	AB2	DL63b
14	SN75109X	D	2	.006	0.0	6.0m		TTL	2.0	.80	5.0	5.0	25n	90m	0	70	AB2	CH8I
15	MC75110L	D	2	.012	0.0	6.5m		TTL	2.0	.80	5.0	5.0	25n	250m	0	70	AB28	TO116
16	MC75110P	D	2	.012	0.0	6.5m		TTL	2.0	.80	5.0	5.0	25n	250m	0	70	AB28	DL29
17	SN55109X	D	2	.012	0.0	6.0m	.40†	TTL	2.0	.80	5.0	5.0	25n	90m	55	125	AB2	CH8I
18	SN55110J	D	2	.012	0.0	12m†	.40†	TTL	2.0	.80	5.0	5.0	25n	105m	55	125	AB2	DL45c
19	SN55110W	D	2	.012	0.0	12m†	.40†	TTL	2.0	.80	5.0	5.0	25n	105m	55	125	AB2	FP21a
20	SN55110X	D	2	.012	0.0	12m†	.40†	TTL	2.0	.80	5.0	5.0	25n	105m	55	125	AB2	CH8I
21	SN75110J	D	2	.012	0.0	12m†	.40†	TTL	2.0	.80	5.0	5.0	25n	105m	0	70	AB2	DL45c
22	SN75110N	D	2	.012	0.0	12m†		TTL	2.0	.80	5.0	5.0	25n	105m	0	70	AB2	DL63b
23	SN75110X	D	2	.012	0.0	12m†	.40†	TTL	2.0	.80	5.0	5.0	25n	105m	0	70	AB2	CH8I
24#	SFC5109E	D	2	.03	0.0	3.5m		TTL	2.0	.80	5.0	5.0	25n	250m	0	70	AB24	TO116
25#	SFC5109EM	D	2	.03	0.0	3.5m		TTL	2.0	.80	5.0	5.0	25n	250m	55	125	AB24	TO116
26#	SFC5109JM	D	2	.03	0.0	3.5m		TTL	2.0	.80	5.0	5.0	25n	250m	55	125	AB24	TO116
27#	SFC5109KM	D	2	.03	0.0	3.5m		TTL	2.0	.80	5.0	5.0	25n	250m	55	125	AB24	TO116
28#	SFC5110E	D	2	.06	0.0	6.5m		TTL	2.0	.80	5.0	5.0	25n	250m	0	70	AB24	TO116
29#	SFC5110EM	D	2	.06	0.0	6.5m		TTL	2.0	.80	5.0	5.0	25n	250m	55	125	AB24	TO116
30#	SFC5110JM	D	2	.06	0.0	6.5m		TTL	2.0	.80	5.0	5.0	25n	250m	55	125	AB24	TO116
31#	SFC5110KM	D	2	.06	0.0	6.5m		TTL	2.0	.80	5.0	5.0	25n	250m	55	125	AB24	TO116
32	JANM38510/10405BEB	D	2	2.0*	.40Δ	40m	.40	TTL	2.0	.80	0.0	5.0	40n	325m	55	125	AB5	DL99
33	JANM38510/10405CEB	D	2	2.0*	.40Δ	40m	.40	TTL	2.0	.80	0.0	5.0	40n	325m	55	125	AB5	DL99
34	55121DM	D	2	2.4*		220m†	1.5	TTL	2.0	.80	0.0	5.0	50n	300m	55	125	AB28	DL17f
35	55121FM	D	2	2.4*		220m†	1.5	TTL	2.0	.80	0.0	5.0	50n	300m	55	125	AB28	FP13
36	75121DC	D	2	2.4*		220m†	1.5	TTL	2.0	.80	0.0	5.0	50n	300m	0	70	AB28	DL17f
37	75121PC	D	2	2.4*		220m†	1.5	TTL	2.0	.80	0.0	5.0	50n	300m	0	70	AB28	DL52
38	JANM38510/10403BEA	D	2	2.4*	.40Δ	40m	.40	TTL	2.0	.80	0.0	5.0	32n	250m	55	125	AB38	DL99
39	JANM38510/10403BEB	D	2	2.4*	.40Δ	40m	.40	TTL	2.0	.80	0.0	5.0	32n	250m	55	125	AB38	DL99
40	JANM38510/10403BEC	D	2	2.4*	.40Δ	40m	.40	TTL	2.0	.80	0.0	5.0	32n	250m	55	125	AB38	DL99
41	JANM38510/10403BFA	D	2	2.4*	.40Δ	40m	.40	TTL	2.0	.80	0.0	5.0	32n	250m	55	125	AB38	DL99
42	JANM38510/10403BFB	D	2	2.4*	.40Δ	40m	.40	TTL	2.0	.80	0.0	5.0	32n	250m	55	125	AB38	FP28
43	JANM38510/10403BFC	D	2	2.4*	.40Δ	40m	.40	TTL	2.0	.80	0.0	5.0	32n	250m	55	125	AB38	FP28
44	JANM38510/10403CEA	D	2	2.4*	.40Δ	40m	.40	TTL	2.0	.80	0.0	5.0	32n	250m	55	125	AB38	FP28
45	JANM38510/10403CEB	D	2	2.4*	.40Δ	40m	.40	TTL	2.0	.80	0.0	5.0	32n	250m	55	125	AB38	DL99
46	JANM38510/10403CEC	D	2	2.4*	.40Δ	40m	.40	TTL	2.0	.80	0.0	5.0	32n	250m	55	125	AB38	DL99
47	JANM38510/10403CFA	D	2	2.4*	.40Δ	40m	.40	TTL	2.0	.80	0.0	5.0	32n	250m	55	125	AB38	DL99
48	JANM38510/10403CFB	D	2	2.4*	.40Δ	40m	.40	TTL	2.0	.80	0.0	5.0	32n	250m	55	125	AB38	FP28
49	JANM38510/10403CFC	D	2	2.4*	.40Δ	40m	.40	TTL	2.0	.80	0.0	5.0	32n	250m	55	125	AB38	FP28
50#	ITT7141	D	2	2.4*	.40Δ	40m	.40	TTL	2.0	.80	0.0	5.0	32n	250m	55	125	AB38	FP28
51#	JANM38510/08101BCA	D	2	2.5*	.40Δ	100m	.70	TTL	2.0	.80	0.0	5.0	25n	170m	0	70	AB53	TO116
52#	JANM38510/08101BCB	D	2	2.5*	.50Δ	60m	.50	TTL	2.0	.80	0.0	5.5	7.5n	242m	55	125	AB47	DL98
53#	JANM38510/08101BDA	D	2	2.5*	.50Δ	60m	.50	TTL	2.0	.80	0.0	5.5	7.5n	242m	55	125	AB47	DL98
54#	JANM38510/08101BDB	D	2	2.5*	.50Δ	60m	.50	TTL	2.0	.80	0.0	5.5	7.5n	242m	55	125	AB47	FP27
55#	JANM38510/08101CCA	D	2	2.5*	.50Δ	60m	.50	TTL	2.0	.80	0.0	5.5	7.5n	242m	55	125	AB47	DL98
56#	JANM38510/08101CCB	D	2	2.5*	.50Δ	60m	.50	TTL	2.0	.80	0.0	5.5	7.5n	242m	55	125	AB47	DL98
57#	JANM38510/08101CDA	D	2	2.5*	.50Δ	60m	.50	TTL	2.0	.80	0.0	5.5	7.5n	242m	55	125	AB47	FP27
58#	JANM38510/08101CDB	D	2	2.5*	.50Δ	60m	.50	TTL	2.0	.80	0.0	5.5	7.5n	242m	55	125	AB47	FP27
59	9612EHC	D	2	2.6	.25	50m	.40	TTL	2.0	.80	0.0	5.0	20n	250m	0	70	AB29	TO99
60	9612ERC	D	2	2.6	.25	50m	.40	TTL	2.0	.80	0.0	5.0	20n	250m	0	70	AB29	DL27a
61	9612ETC	D	2	2.6	.25	50m	.40	TTL	2.0	.80	0.0	5.0	20n	250m	0	70	AB29	DL65
62	9612AHM	D	2	2.75	.20	40m	.40	TTL	2.0	.80	0.0	5.0	30n	250m	55	125	AB29	TO99
63	9612ARM	D	2	2.75	.20	40m	.40	TTL	2.0	.80	0.0	5.0	30n	250m	55	125	AB29	DL27a
64	9612HC	D	2	2.75	.20	40m	.40	TTL	2.0	.80	0.0	5.0	30n	250m	0	70	AB29	TO99
65	9612RC	D	2	2.75	.20	40m	.40	TTL	2.0	.80	0.0	5.0	30n	250m	0	70	AB29	DL27a
66	9612TC	D	2	2.75	.20	40m	.40	TTL	2.0	.80	0.0	5.0	30n	250m	0	70	AB29	DL65
67	SN55114J	D	2	3.0	.20	40m	.40	TTL	2.0	.80	0.0	5.0	20n	250m	55	125	AB6	DL25
68	SN75114J	D	2	3.0	.20	40m	.45	TTL	2.0	.80	0.0	5.0	30n	250m	0	70	AB6	DL25
69	SN75114N	D	2	3.0	.20	40m	.45	TTL	2.0	.80	0.0	5.0	30n	250m	0	70	AB6	DL26
70	75123DC	D	2	3.11*	.15	225m†	3.4	TTL	2.0	.80	0.0	5.0	35n	300m	0	70	AB28	DL17f
71	75123PC	D	2	3.11*	.15	225m†	3.4	TTL	2.0	.80	0.0	5.0	35n	300m	0	70	AB28	DL52
72#	ITT9614-1J	D	2	3.2	.20	40m	.45	TTL	1.7	.90	0.0	5.0	20n	250m	55	125	AB38	DL4d
73#	ITT9614-5J	D	2	3.2	.20	40m	.45	TTL	1.8	.85	0.0	5.0	30n	250m	0	75	AB38	DL4d
74	DS7830J	D	2	3.3	.20	40m	.50	TTL	2.0	.80	0.0	5.0	12n	160m	55	125	AB7	DL16b
75	DS7830W	D	2	3.3	.20	40m	.50	TTL	2.0	.80	0.0	5.0	12n	160m	55	125	AB7	FP6
76	DS8830J	D	2	3.3	.20	40m	.50	TTL	2.0	.80	0.0	5.0	12n	160m	0	70	AB7	DL16b
77	DS8830W	D	2	3.3	.20	40m	.50	TTL	2.0	.80	0.0	5.0	12n	160m	0	70	AB7	FP6
78	SN55183J	D	2	3.3	.22	40m	.40	TTL	2.0	.80	0.0	5.0	18n	90m	55	125	AB7	DL23

3. LINE DRIVERS/TRANSMITTERS

IN ORDER OF: (1)OUTPUT MODE (2)CKTS/DEVICE
(3)TYPICAL OUTPUT VOLTAGE & (4)TYPE NUMBER

LINE No.	4 TYPE NUMBER	1 OUTPUT MODE	2 CKTS PER DEV.	3 TYP. OUTPUT VOLTAGE		MIN. OUTPUT SINK CURRENT		MAX. OUTP. RESIS (Ω)	T E C H N	INPUT LOGIC LEVEL		RATED SUPPLY SPAN		MAX. PROP. DELAY (s)	MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS		
				HIGH (V)	LOW (V)	I (A)	@ Vo (V)			HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)			(-) (°C)	(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No.	
																				Δ
1	55109FM	D	2	10Δ	-3.0*	12m†			TTL	2.0	.80	5.0	5.0	25n	325m	55	125	AB2	TO86	
2	55110DM	D	2	10Δ	-3.0*	12m†			TTL	2.0	.80	5.0	5.0	25n	325m	55	125	AB2	DL16c	
3	55110FM	D	2	10Δ	-3.0*	12m†			TTL	2.0	.80	5.0	5.0	25n	325m	55	125	AB2	TO86	
4	75109DC	D	2	10Δ	-3.0*	6.0m			TTL	2.0	.80	5.0	5.0	25n	300m	0	70	AB2	DL16c	
5	75109PC	D	2	10Δ	-3.0*	6.0m			TTL	2.0	.80	5.0	5.0	25n	300m	0	70	AB2	DL68	
6	75110DC	D	2	10Δ	-3.0*	12m†			TTL	2.0	.80	5.0	5.0	25n	325m	0	70	AB2	DL16c	
7	75110PC	D	2	10Δ	-3.0*	12m†			TTL	2.0	.80	5.0	5.0	25n	325m	0	70	AB2	DL68	
8	DS55109J	D	2	10Δ	-3.0Δ	6.0m†			TTL	2.0	.40	5.0	5.0	25n	300m	55	125	AB2	DL16b	
9	DS55110J	D	2	10Δ	-3.0Δ	6.0m†			TTL	2.0	.40	5.0	5.0	25n	300m	55	125	AB2	DL16b	
10	DS75109J	D	2	10Δ	-3.0Δ	6.0m†			TTL	2.0	.40	5.0	5.0	25n	300m	0	70	AB2	DL16b	
11	DS75109N	D	2	10Δ	-3.0Δ	6.0m†			TTL	2.0	.40	5.0	5.0	25n	300m	0	70	AB2	DL54	
12	DS75110J	D	2	10Δ	-3.0Δ	6.0m†			TTL	2.0	.40	5.0	5.0	25n	300m	0	70	AB2	DL16b	
13	DS75110N	D	2	10Δ	-3.0Δ	6.0m†			TTL	2.0	.40	5.0	5.0	25n	300m	0	70	AB2	DL54	
14	SN55109AJ	D	2	10	3.0	3.5m	5.0		TTL	2.0	.80	5.0	5.0	25n	300m	55	125	AB2	DL23	
15	SN55110AJ	D	2	10	3.0	6.5m	5.0		TTL	2.0	.80	5.0	5.0	25n	425m	55	125	AB2	DL23	
16	SN75109AJ	D	2	10	3.0	3.5m	5.0		TTL	2.0	.80	5.0	5.0	25n	300m	0	70	AB2	DL23	
17	SN75109AN	D	2	10	3.0	3.5m	5.0		TTL	2.0	.80	5.0	5.0	25n	300m	0	70	AB2	DL24	
18	SN75110AJ	D	2	10	3.0	6.5m	5.0		TTL	2.0	.80	5.0	5.0	25n	425m	0	70	AB2	DL23	
19	SN75110AN	D	2	10	3.0	6.5m	5.0		TTL	2.0	.80	5.0	5.0	25n	425m	0	70	AB2	DL24	
20	SN75112J	D	2	10	3.0	18m	5.0		TTL	2.0	.80	5.0	5.0	25n	700m	0	70	AB2	DL23	
21	SN75112N	D	2	10	3.0	18m	5.0		TTL	2.0	.80	5.0	5.0	25n	700m	0	70	AB2	DL24	
22	HEPC0900P-RT	D	2	12*	1.5Δ	36m	1.5		TTL	8.5†	6.5†	0.0	0.0	15	140n†	180m†	30	75	AB10	TO116
23	HD1-245	D	3	.50	-30Δ	2.3m	0.0		TTL	3.2	0.0†	0.0	5.0	10n	93m	55	125	AB32	DL78	
24	HD1-545	D	3	.50	-30Δ	1.9m	0.0		TTL	3.2	0.0†	0.0	5.0	10n	120m	0	75	AB32	DL78	
25	HD9-245	D	3	.50	-30Δ	2.3m	0.0		TTL	3.2	0.0†	0.0	5.0	10n	93m	55	125	AB32	TO86	
26	HD9-545	D	3	.50	-30Δ	1.9m	0.0		TTL	3.2	0.0†	0.0	5.0	10n	120m	0	75	AB32	TO86	
27	MC3487L	D	4	2.5*	5.0Δ	48m	.50		TTL	2.0	.80	0.0	5.0	15n	498m	0	70	AB49	DL17b	
28	MC3487P	D	4	2.5*	5.0Δ	48m	.50		TTL	2.0	.80	0.0	5.0	15n	498m	0	70	AB49	DL30	
29	8T100	D	4	3.0	0.0	40m	.50		TTL	2.0	.80	0.0	5.0			0	75	AB56	DL7	
30	8T101	D	4	3.0	0.0	40m	.50		TTL	2.0	.80	0.0	5.0			0	75	AB56	DL7	
31	SN54128J	D	4	3.4	.26	48m	.40		TTL	2.0	.80	0.0	5.0	18n	285m	55	125	AB11	DL23	
32	SN54128W	D	4	3.4	.26	48m	.40		TTL	2.0	.80	0.0	5.0	18n	285m	55	125	AB11	Δ004AA	
33	SN74128J	D	4	3.4	.26	48m	.40		TTL	2.0	.80	0.0	5.0	18n	285m	0	70	AB11	DL23	
34	SN74128N	D	4	3.4	.26	48m	.40		TTL	2.0	.80	0.0	5.0	18n	285m	0	70	AB11	DL24	
35	DS1688J	D	4	5.5Δ	1.0Δ	100m†			TTL	2.0	.80s	0.0	5.0	20n†	65m†	55	125	AB25	DL17d	
36	DS3688J	D	4	5.5Δ	1.0Δ	100m†			TTL	2.0	.80s	0.0	5.0	20n†	65m†	0	70	AB25	DL17d	
37	DS3688N	D	4	5.5Δ	1.0Δ	100m†			TTL	2.0	.80s	0.0	5.0	20n†	65m†	0	70	AB25	DL56	
38	MC3453L	D	4	10Δ	3.0Δ	6.5m			TTL	2.0	.80	5.0	5.0	25n	450m	0	70	AB23	DL17b	
39	MC3453P	D	4	10Δ	3.0Δ	6.5m			TTL	2.0	.80	5.0	5.0	25n	450m	0	70	AB23	DL30	
40	5550	D	8			40m	.50		TTL	2.0	.45	0.0	5.0	18n	750m†	0	70	AB45	PC12	
41	DS7831J	DS	2	2.3	.29	40m	.50		TTL	2.0	.80s	0.0	5.0	25n	450m	55	125	AB26	DL17d	
42	DS7832J	DS	2	2.3	.29	40m	.50		TTL	2.0	.80s	0.0	5.0	25n	450m	55	125	AB26	DL17d	
43	DS7832W	DS	2	2.3	.29	40m	.50		TTL	2.0	.80s	0.0	5.0	25n	450m	55	125	AB26	FP7	
44	SN75158JG	DS	2	2.4*	.40Δ	20m	.40		TTL	2.0	.80	0.0	5.0	20n	325m	0	75	AB4	DL27	
45	SN75158P	DS	2	2.4*	.40Δ	20m	.40		TTL	2.0	.80	0.0	5.0	20n	325m	0	75	AB4	DL28	
46	DS8831J	DS	2	2.5	.29	40m	.50		TTL	2.0	.80s	0.0	5.0	25n	450m	0	70	AB26	DL17d	
47	DS8831N	DS	2	2.5	.29	40m	.50		TTL	2.0	.80s	0.0	5.0	25n	450m	0	70	AB26	DL56	
48	9614DC	DS	2	2.6	.20	40m	.40		TTL	2.0	.80	0.0	5.0	30n	250m	0	70	AB6	DL17f	
49	9614DM	DS	2	2.6	.20	40m	.40		TTL	2.0	.80	0.0	5.0	20n	250m	55	125	AB6	DL17f	
50	9614FM	DS	2	2.6	.20	40m	.40		TTL	2.0	.80	0.0	5.0	20n	250m	55	125	AB6	FP13	
51	9614PC	DS	2	2.6	.20	40m	.40		TTL	2.0	.80	0.0	5.0	30n	250m	0	70	AB6	DL52	
52	AM7831J	DS	2	2.8	.20	32m	.40		TTL	2.0	.80s	0.0	5.0	25n	450m	55	125	AB26	DL76	
53	AM7831W	DS	2	2.8	.20	32m	.40		TTL	2.0	.80s	0.0	5.0	25n	450m	55	125	AB26	FP18	
54	AM7832J	DS	2	2.8	.20	32m	.40		TTL	2.0	.80s	0.0	5.0	25n	450m	55	125	AB26	DL76	
55	AM7832W	DS	2	2.8	.20	32m	.40		TTL	2.0	.80s	0.0	5.0	25n	450m	55	125	AB26	FP18	
56	AM8831J	DS	2	2.8	.20	32m	.40		TTL	2.0	.80s	0.0	5.0	25n	450m	0	75	AB26	DL76	
57	AM8831N	DS	2	2.8	.20	32m	.40		TTL	2.0	.80s	0.0	5.0	25n	450m	0	75	AB26	DL77	
58	AM8832J	DS	2	2.8	.20	32m	.40		TTL	2.0	.80s	0.0	5.0	25n	450m	0	75	AB26	DL76	
59	AM8832N	DS	2	2.8	.20	32m	.40		TTL	2.0	.80s	0.0	5.0	25n	450m	0	75	AB26	DL77	
60	AM7831X	DS	2	3.1	.20	32m	.40		TTL	2.0	.80s	0.0	5.0	25n	450m	55	125	AB26	CH8k	
61	AM8831X	DS	2	3.1	.20	32m	.40		TTL	2.0	.80s	0.0	5.0	25n	450m	0	75	AB26	CH8k	
62	AM8832X	DS	2	3.1	.20	32m	.40		TTL	2.0	.80s	0.0	5.0	25n	450m	0	75	AB26	CH8k	
63	9621DM	DS	2	4.3	.20	20m	.40		TTL	2.0	1.0	0.0	12	150n	101m†	55	125	AB31	DL16c	
64	9621FM	DS	2	4.3	.20	20m	.40		TTL	2.0	1.0	0.0	12	150n	101m†	55	125	AB31	TO86	
65	9621DC	DS	2	4.4	.20	20m	.40		TTL	2.0	1.0	0.0	12	200n	101m†	0	70	AB31	DL16c	
66	9621PC	DS	2	4.4	.20	20m	.40		TTL	2.0	1.0	0.0	12	200n	101m†	0	70	AB31	DL68	
67	DS7831W	DS	4	2.3	.29	40m	.50		TTL	2.0	.80s	0.0	5.0	25n	450m	55	125	AB26	FP7	
68	DS8832J	DS	4	2.5	.29	40m	.50		TTL	2.0	.80s	0.0	5.0	25n	450m	0	70	AB26	DL17d	
69	DS8832N	DS	4	2.5	.29	40m	.50		TTL	2.0	.80s	0.0	5.0	25n	450m	0	70	AB26	DL56	
70	#MB432	S	2						TTL	2.0	-1.0%	0.0	5.0		240m†	0	70	AB43	DL17r	
71	#MB432M	S	2						TTL	2.0	-1.0%	0.0	5.0		240m†	0	70	AB43	DL17q	
72	#GXB10110	S	2	-88	-1.7	50m†		50 \$	ECL	-81Δ	1.8*	5.2	0.0	2.4n†	197m	0	75	AB36	DL17k	
73	#GXB10111	S	2	-88	-1.7	50m†		50 \$	ECL	-81Δ	1.8*	5.2	0.0	2.4n†	197m	0	75	AB37	DL17k	
74	SN10112J	S	2	-96*	-1.6Δ	50m†			ECL	-98	-1.6	5.2	0.0	3.5n	171m†	0	85	AB21	DL25	
75	SN10112N	S	2	-96*	-1.6Δ	50m†			ECL	-98	-1.6	5.2	0.0	3.5n	171m†	0	85	AB21	DL26	
76	DS55121J	S	2	2.4*		100m∅	2.0		TTL	2.0	.80	0.0	5.0	50n	300m	55	125	AB3	DL17d	
77	DS55121W	S	2	2.4*		100m∅	2.0		TTL	2.0	.80	0.0	5.0	50n	300m	55	125	AB3	FP7	
78	DS75121J	S	2	2.4*																

3. LINE DRIVERS/TRANSMITTERS

IN ORDER OF: (1)OUTPUT MODE (2)CKTS/DEVICE
(3)TYPICAL OUTPUT VOLTAGE & (4)TYPE NUMBER

LINE No.	TYPE NUMBER	OUTPUT MODE	CKTS PER DEV.	TYP. OUTPUT VOLTAGE		MIN. OUTPUT SINK CURRENT		MAX. OUTP. RESIS (Ω)	T E C H N	INPUT LOGIC LEVEL		RATED SUPPLY SPAN		MAX. PROP. DELAY tpd (s)	MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS	
				HIGH (V)	LOW (V)	I (A)	@ V _o (V)			HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)			(-) (°C)	(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No.
1#	M54650P	S	2	8.0	-8.0				TTL	2.0	.80	12	12	60n	504m	0	75	AB8	TO116
2	SN75150JG	S	2	8.0	-8.0	15m	0.0		TTL	2.0	.80	12	12	60n	228m	0	70	AB8	DL27
3	SN75150P	S	2	8.0	-8.0	15m	0.0		TTL	2.0	.80	12	12	60n	228m	0	70	AB8	DL28
4▼	MB437	S	3						TTL	2.0	.80	0.0	5.0		390m	0	70	AB44	DL17r
5▼	MB437M	S	3						TTL	2.0	.80	0.0	5.0		390m	0	70	AB44	DL17q
6▼	MB10116	S	3						ECL	-9.6	-1.6%	5.2	0.0		85m	30	85	AB40	DL17r
7▼	MB10116M	S	3						ECL	-9.6	-1.6%	5.2	0.0		85m	30	85	AB40	DL17q
8	MC10123L	S	3	-9.6*	-2.0Δ	51m∅	.81	25 §	ECL	-8.1Δ	-1.8*	5.2	0.0	4.4n	109m	30	85	AB19	DL17b
9▼	MC419F	S	3	2.4*	.45Δ	30m	.40	350 †	TTL	3.0†	0.0†	0.0	5.0	70n	54m	0	75	AB52	TO86
10▼	MC419L,P%	S	3	2.4*	.45Δ	30m	.40	350 †	TTL	3.0†	0.0†	0.0	5.0	70n	54m	0	75	AB52	TO116
11▼	MC469F	S	3	2.4*	.45Δ	15m	.40	350 †	TTL	3.0†	0.0†	0.0	5.0	70n	54m	0	75	AB52	TO86
12▼	MC469L,P%	S	3	2.4*	.45Δ	15m	.40	350 †	TTL	3.0†	0.0†	0.0	5.0	70n	54m	0	75	AB52	TO116
13▼	MC519F	S	3	2.4*	.45Δ	30m	.40	350 †	TTL	2.8†	0.0†	0.0	5.0	70n	54m	55	125	AB52	TO86
14▼	MC519L	S	3	2.4*	.45Δ	30m	.40	350 †	TTL	2.8†	0.0†	0.0	5.0	70n	54m	55	125	AB52	TO116
15▼	MC569F	S	3	2.4*	.45Δ	15m	.40	350 †	TTL	2.8†	0.0†	0.0	5.0	70n	54m	55	125	AB52	TO86
16▼	MC569L	S	3	2.4*	.45Δ	15m	.40	350 †	TTL	2.8†	0.0†	0.0	5.0	70n	54m	55	125	AB52	TO116
17	9616DC	S	3	6.0	-6.0				TTL	2.0	.80	12	12	320n	360m	0	70	AB30	DL16c
18	9616DM	S	3	6.0	-6.0				TTL	2.0	.80	12	12	320n	360m	55	125	AB30	DL16c
19	9616EDC	S	3	6.0	-6.0				TTL	2.0	.80	12	12	320n	360m	0	70	AB30	DL16c
20	9616EPC	S	3	6.0	-6.0				TTL	2.0	.80	12	12	320n	360m	0	70	AB30	DL68
21	9616FM	S	3	6.0	-6.0				TTL	2.0	.80	12	12	320n	360m	55	125	AB30	TO86
22	9616PC	S	3	6.0	-6.0				TTL	2.0	.80	12	12	320n	360m	0	70	AB30	DL68
23▼	MB425	S	4						TTL	2.4	.45%	0.0	5.0		340m	0	70	AB41	DL17r
24▼	MB425M	S	4						TTL	2.4	.45%	0.0	5.0		340m	0	70	AB41	DL17q
25▼	MB426	S	4						TTL	2.4	.45%	0.0	5.0		280m	0	70	AB42	DL17r
26▼	MB426M	S	4						TTL	2.4	.45%	0.0	5.0		280m	0	70	AB42	DL17q
27▼	8T09A	S	4	2.4*	.40Δ	40m	.40		TTL	2.0	.80	0.0	5.0	20n§	340m	0	75	AB55	DL3a
28▼	8T09F	S	4	2.4*	.40Δ	40m	.40		TTL	2.0	.80	0.0	5.0	20n§	340m	0	75	AB55	DL16d
29▼	IM5001CDD	S	4	2.4	.45	120m†	.45	39	TTL	1.8	.85	0.0	5.0	25n	1.0 †	55	125	AB51	DL118
30▼	IM5001MDD	S	4	2.4	.40	120m†	.40	39	TTL	2.0	.80	0.0	5.0	25n	1.0 †	55	125	AB51	DL118
31▼	IM5001NDD	S	4	2.4	.40	120m†	.40	39	TTL	2.0	.80	0.0	5.0	25n	1.0 †	25	70	AB51	DL118
32▼	IM5011CDD	S	4	2.4	.45	120m†	.45	56	TTL	1.8	.85	0.0	5.0	25n	1.0 †	55	125	AB51	DL118
33▼	IM5011MDD	S	4	2.4	.40	120m†	.40	56	TTL	2.0	.80	0.0	5.0	25n	1.0 †	55	125	AB51	DL118
34▼	IM5011NDD	S	4	2.4	.40	120m†	.40	56	TTL	2.0	.80	0.0	5.0	25n	1.0 †	25	70	AB51	DL118
35▼	MC2065F	S	4	5.5*	.60Δ	60m	.60		TTL	2.8†	0.0†	0.0	5.0	30n	105m	0	75	AB50	TO86
36▼	MC2065L,P%	S	4	5.5*	.60Δ	60m	.60		TTL	2.8†	0.0†	0.0	5.0	30n	105m	0	75	AB50	TO116
37▼	MC2165F	S	4	5.5*	.60Δ	60m	.60		TTL	2.8†	0.0†	0.0	5.0	30n	105m	55	125	AB50	TO86
38▼	MC2165L	S	4	5.5*	.60Δ	60m	.60		TTL	2.8†	0.0†	0.0	5.0	30n	105m	55	125	AB50	TO116
39	AM1488XC	S	4	7.0	-7.0	2.0m	6.0	300	TTL	1.9	.80	9.0	9.0	200n	180m	0	75	AB26	CH8J
40▼	ITT1488-1J	S	4	7.0	-7.0	6.0m	0.0	300*	DTL	1.9	.80	9.0	9.0	350n	333m	55	125	AB9	DL3d
41▼	ITT1488-5J	S	4	7.0	-7.0	6.0m	0.0	300*	DTL	1.9	.80	9.0	9.0	350n	333m	0	75	AB9	DL3d
42▼	MC1488F	S	4	7.0	-7.0	6.0m	0.0	300*	DTL	6.0	7.0%	9.0	9.0	300n	1.0 †	0	75	AB9	DL16d
43	MC1488P	S	4	7.0	-7.0	6.0m	0.0	300*	DTL	6.0	7.01%	9.0	9.0	350n	180m	0	75	AB9	TO116
44	MC1488B	S	4	7.0	-7.0	6.0m	0.0	300*	DTL	6.0	7.01%	9.0	9.0	350n	180m	0	75	AB9	DL29
45	RC1488DC	S	4	7.0	-7.0	6.0m	0.0	300*	TTL	6.0	-7.01%	9.0	9.0	300n	333m	0	75	AB9	DL16e
46▼	SG1488J	S	4	7.0	-7.0	10m∅†	0.0	300*	DTL	6.0	7.01%	9.0	9.0	200n	333m	0	75	AB46	DL23a
47	SN75188J	S	4	7.0	-7.0	12m	0.0	300*	TTL	1.9	.80	9.0	9.0	375n	333m	0	75	AB9	DL23
48	SN75188N	S	4	7.0	-7.0	0.0	0.0	300*	TTL	1.9	.80	9.0	9.0	375n	333m	0	75	AB9	DL24
49▼	XR1488N	S	4	7.0	-7.0	2.3m†	7.0	300*	DTL	6.0	7.01%	9.0	9.0	200n	333m	0	75	AB9	DL16h
50▼	XR1488P	S	4	7.0	-7.0	2.3m†	7.0	300*	DTL	6.0	7.01%	9.0	9.0	200n	333m	0	75	AB9	DL16h
51	DS1488J	S	4	10.5	-1.0			300*	TTL	1.9	.80	12	12	350n	576m	0	75	AB9	DL16b
52▼	SN54S240J	S	8	2.4*	.55Δ	48m	.55		TTL	2.0	.80s	0.0	5.0	7.0n	750m	55	125	AB13	DL127
53▼	SN54S241J	S	8	2.4*	.55Δ	48m	.55		TTL	2.0	.80s	0.0	5.0	9.0n	900m	55	125	AB14	DL127
54▼	SN74S240J	S	8	2.4*	.55Δ	64m	.55		TTL	2.0	.80s	0.0	5.0	7.0n	750m	0	70	AB13	DL127
55▼	SN74S240N	S	8	2.4*	.55Δ	64m	.55		TTL	2.0	.80s	0.0	5.0	7.0n	750m	0	70	AB13	DL31
56▼	SN74S241J	S	8	2.4*	.55Δ	64m	.55		TTL	2.0	.80s	0.0	5.0	9.0n	900m	0	70	AB14	DL127
57▼	SN74S241N	S	8	2.4*	.55Δ	64m	.55		TTL	2.0	.80s	0.0	5.0	9.0n	900m	0	70	AB14	DL31
58▼	SN54LS240J	S	8	3.4	.40*	12m	.40		TTL	2.0	.70s	0.0	5.0	14n	250m	55	125	AB16	DL127
59▼	SN54LS241J	S	8	3.4	.40*	12m	.40		TTL	2.0	.70s	0.0	5.0	18n	270m	55	125	AB14	DL127
60	SN54LS242J	S	8	3.4	.40*	12m	.40		TTL	2.0	.70s	0.0	5.0	14n	250m	55	125	AB16	DL23
61	SN54LS242W	S	8	3.4	.40*	12m	.40		TTL	2.0	.70s	0.0	5.0	14n	250m	55	125	AB16	Δ004AA
62	SN54LS243J	S	8	3.4	.40*	12m	.40		TTL	2.0	.70s	0.0	5.0	18n	270m	55	125	AB17	DL23
63	SN54LS243W	S	8	3.4	.40*	12m	.40		TTL	2.0	.70s	0.0	5.0	18n	270m	55	125	AB17	Δ004AA
64	SN54LS244J	S	8	3.4	.40*	12m	.40		TTL	2.0	.70s	0.0	5.0	18n	270m	55	125	AB15	DL127
65	SN74LS240J	S	8	3.4	.40*	12m	.40		TTL	2.0	.80s	0.0	5.0	14n	250m	0	70	AB13	DL127
66	SN74LS240N	S	8	3.4	.40*	24m	.50		TTL	2.0	.80s	0.0	5.0	14n	250m	0	70	AB13	DL31
67	SN74LS241J	S	8	3.4	.40*	24m	.50		TTL	2.0	.80s	0.0	5.0	18n	270m	0	70	AB14	DL127
68	SN74LS241N	S	8	3.4	.40*	24m	.50		TTL	2.0	.80s	0.0	5.0	18n	270m	0	70	AB14	DL31
69	SN74LS242J	S	8	3.4	.40*	12m	.40		TTL	2.0	.80s	0.0	5.0	14n	250m	0	70	AB16	DL23
70	SN74LS242N	S	8	3.4	.40*	12m	.40		TTL	2.0	.80s	0.0	5.0	14n	250m	0	70	AB16	DL24
71	SN74LS243J	S	8	3.4	.40*	12m	.40		TTL	2.0	.80s	0.0	5.0	18n	270m	0	70	AB17	DL23
72	SN74LS243N	S	8	3.4	.40*	12m	.40		TTL	2.0	.80s	0.0	5.0	18n	270m	0	70	AB17	DL24
73	SN74LS244J	S	8	3.4	.40*	24m	.50		TTL	2.0	.80s	0.0	5.0	18n	270m	0	70	AB15	DL127
74	SN74LS244N	S	8	3.4	.40*	24m	.50		TTL	2.0	.80s	0.0	5.0	18n	270m	0	70	AB15	DL31

4. MEMORY/CLOCK DRIVERS

IN ORDER OF: (1)TYPE CODE (2)CKTS/DEVICE (3)MIN. OUTPUT SINK CURR. & (4)TYPE NUMBER

LINE No.	4 TYPE NUMBER	1 TYPE CODE	2 CKTS PER DEV.	3 MIN.OUTPUT		SINK HIGH VOLT. (V)	MAXIMUM PROPAGATION DELAY tpd (s)	MAX. INPUT CAP. (F)	MAX. INPUT CURR. (LOW) (A)	T E C H N	INPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		ADD. INPT FUNC	DRAWINGS	
				I (A)	@ Vo (V)						HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)		(-) (°C)	(+) (°C)		LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO
1	CH1038	C	1	1.0m	19	18	35n	1.0n	MOS	1.7	2.7%	0.0	20	500m	25	85		AC2b	MD24	
2	MH0012CG	C	1	1.0m	19	30	15n	200p	MOS	1.0t	.60t	0.0	20	1.5	55	85		AC38	CN10	
3	MH0012G	C	1	1.0m	19	30	15n	200p	MOS	1.0t	.60t	0.0	20	1.5	55	125		AC38	CN10	
4	M002T	C	1	2.0m	.50	25	100n	200p	PMS	-9.0	-2.0	27	0.0	700m	0	70		AC32	TO100	
5	MH0007CH	C	1	30m	-23	30	75n	200p	MOS	2.2	.80	25	0.0	800m	0	85		AC40	CN11	
6	MH0007H	C	1	30m	-23	30	75n	200p	MOS	2.2	.80	25	0.0	800m	55	125		AC40	CN11	
7	CH1032	C	1	1.0 #		4.8	40n	1.0n	MOS	4.0	-11%	12	5.0	325m	25	85		AC2	MD3a	
8	CH1033	C	1	1.0 #		600m	20n	500p	MOS	-1.0	-28%	28	5.0	750m	25	85		AC2a	MD24	
9	CH1033A	C	1	1.0 #		4.4	20n	500p	MOS	4.0	-15%	15	5.0	500m	25	85		AC2a	MD24	
10	CH1037	C	1	1.0 #		4.4	35n	1.0n	MOS	1.7	2.7%	0.0	20	500m	25	85		AC5	MD24	
11	CH1041M	C	2			14	40n	500p	NMS	14.5t	.70t	0.0	15	40m	55	125		AC4a	MD24a	
12	CH1041P	C	2			14	40n	500p	NMS	14.5t	.70t	0.0	15	40m	55	125		AC4a	MD24	
13	DS1642H	C	2	400u	.30	12	30nt	500p	240ut	TTL	2.0	.80	0.0	12	92m	55	125		AC19	TO99
14	DS1642J	C	2	400u	.30	12	30nt	500p	240ut	TTL	2.0	.80	0.0	12	92m	55	125		AC19	DL16b
15	DS1672H	C	2	400u	.30	12	30nt	500p	240ut	TTL	2.0	.80	0.0	12	92m	55	125		AC19	TO99
16	DS1672J	C	2	400u	.30	12	30nt	500p	240ut	TTL	2.0	.80	0.0	12	92m	55	125		AC19	DL16b
17	DS3642H	C	2	400u	.30	12	30nt	500p	240ut	TTL	2.0	.80	0.0	12	92m	55	125		AC19	TO99
18	DS3642J	C	2	400u	.30	12	30nt	500p	240ut	TTL	2.0	.80	0.0	12	92m	55	125		AC19	DL16b
19	DS3642N	C	2	400u	.30	12	30nt	500p	240ut	TTL	2.0	.80	0.0	12	92m	55	125		AC19	DL53
20	DS3672H	C	2	400u	.30	12	30nt	500p	240ut	TTL	2.0	.80	0.0	12	92m	55	125		AC19	TO99
21	DS3672J	C	2	400u	.30	12	30nt	500p	240ut	TTL	2.0	.80	0.0	12	92m	55	125		AC19	DL16b
22	DS3672N	C	2	400u	.30	12	30nt	500p	240ut	TTL	2.0	.80	0.0	12	92m	55	125		AC19	DL53
23	MH0013CG	C	2	1.0m	-19	30	15n	500p	MOS	1.7	.22%	20	0.0	1.5	55	85		AC39	CN10	
24	MH0013G	C	2	1.0m	-19	30	15n	500p	MOS	1.7	.22%	20	0.0	1.5	55	125		AC39	CN10	
25	ATF474	C	2	2.0m	.12	4.5	40n	750p	1.6m	HYB	2.0	.80	12	5.0	457m	0	100		AC33	MD109
26	MC1023P	C	2	2.5m	-.70		3.5n	100n	300u	ECL	-1.0	-1.3	5.2	0.0	250m	55	125		AC36	TO116
27	MC1026P	C	2	2.5m	-.70		3.5n	100n	300u	ECL	-1.0	-1.3	5.2	0.0	140m	55	125		AC37	TO116
28	MC1223F	C	2	2.5m	-.70		3.5n	100n	300u	ECL	-1.0	-1.3	5.2	0.0	250m	55	125		AC36	TO86
29	MC1223L	C	2	2.5m	-.70		3.5n	100n	300u	ECL	-1.0	-1.3	5.2	0.0	250m	55	125		AC36	TO116
30	MC1226F	C	2	2.5m	-.70		3.5n	100n	300u	ECL	-1.0	-1.3	5.2	0.0	140m	55	125		AC37	TO86
31	MC1226L	C	2	2.5m	-.70		3.5n	100n	300u	ECL	-1.0	-1.3	5.2	0.0	140m	55	125		AC37	TO116
32	SP1023	C	2	2.5m	-.15		2.0nt	100u	100u	ECL	-1.0	-1.3	5.2	0.0	250m	55	125		AC17	DL59
33	SP1223	C	2	2.5m	-.15		2.0nt	100u	100u	ECL	-1.0	-1.3	5.2	0.0	250m	55	125		AC17	DL59
34	DS75364J	C	2	40m	.50	23	35n	390p	700u	TTL	5.0	1.0	0.0	24	188m	0	70		AC28a	DL16b
35	DS75364N	C	2	40m	.50	23	35n	390p	700u	TTL	5.0	1.0	0.0	24	188m	0	70		AC28	DL53
36	SN75364JG	C	2	40m	.50	23	57n	390p	700u	TTL	5.0	1.0	0.0	24	188m	0	70		AC28	DL27
37	SN75364P	C	2	40m	.50	23	57n	390p	700u	TTL	5.0	1.0	0.0	24	188m	0	70		AC28	DL28
38	ICH7201CDD	C	2	50m	1.5t	23	40nt	500p	MOS	2.1	.90	0.0	25	1.0	55	125		AC30	DL7a	
39	ICH7201CGC	C	2	50m	1.5t	23	40nt	500p	MOS	2.1	.90	0.0	25	1.5	55	125		AC30a	CN1a	
40	ICH7201MDD	C	2	50m	1.5t	23	40nt	500p	MOS	2.0	.90	0.0	25	1.0	55	125		AC30	DL7a	
41	ICH7201MGC	C	2	50m	1.5t	23	40nt	500p	MOS	2.0	.90	0.0	25	1.5	55	125		AC30a	CN1a	
42	IM5013ACDD	C	2	50m	6.0	11	7.0nt	200p	MOS	11.3t	9.3%t	10	10	1.0	55	125		AC31f	DL73	
43	IM5013ACTC	C	2	50m	6.0	11	7.0nt	200p	MOS	11.3t	9.3%t	10	10	1.2	55	125		AC31g	CN1a	
44	IM5013AMDD	C	2	50m	6.0	11	7.0nt	200p	MOS	11.3t	9.3%t	10	10	1.0	55	125		AC31f	DL73	
45	IM5013AMTC	C	2	50m	6.0	11	7.0nt	200p	MOS	11.3t	9.3%t	10	10	1.2	55	125		AC31g	CN1a	
46	IM5013CDD	C	2	50m	6.0	11	7.0nt	200p	MOS	11.5t	8.5%t	10	10	1.0	55	125		AC31d	DL73	
47	IM5013CTC	C	2	50m	6.0	11	7.0nt	200p	MOS	11.5t	8.5%t	10	10	1.5	55	125		AC31e	CN1a	
48	IM5013MDD	C	2	50m	6.0	11	7.0nt	200p	MOS	11.5t	8.5%t	10	10	1.0	55	125		AC31d	DL73	
49	IM5013MTC	C	2	50m	6.0	11	7.0nt	200p	MOS	11.5t	8.5%t	10	10	1.5	55	125		AC31e	CN1a	
50	CH1034	C	2	500m	-.11	11	45n	1.0n	MOS	11.5	-12%	12	12	120m	25	70		AC3	MD24	
51	MH0009CG	C	2	500m	-.11	30	35n	1.0n	MOS	11.5	-12%	20	5.0	1.5	55	85		AC41	CN11	
52	MH0009G	C	2	500m	-.11	30	35n	1.0n	MOS	11.5	-12%	20	5.0	1.5	55	125		AC41	CN11	
53	CH1036	C	2	1.0 #		4.8	25n	150p	MOS	4.0	-11%	12	5.0	275m	25	85		AC4	MD24	
54	DS0025CH	C	2	1.5		30	30n	1.0n	TTL	29	1.5%	0.0	30	120m	0	85		AC18	TO99	
55	DS0025CN	C	2	1.5		30	30n	1.0n	TTL	29	1.5%	0.0	30	120m	0	85		AC18a	DL53	
56	DS0025H	C	2	1.5		30	30n	1.0n	TTL	29	1.5%	0.0	30	120m	55	125		AC18	TO99	
57	DS0026CG	C	2	1.5		20	12n	1.0n	10u	TTL	2.0	.40	0.0	20	800m	0	70		AC15b	CN1c
58	DS0026CH	C	2	1.5		20	12n	1.0n	10u	TTL	2.0	.40	0.0	20	800m	0	70		AC15	TO99
59	DS0026CJ	C	2	1.5		20	12n	1.0n	10u	TTL	2.0	.40	0.0	20	800m	0	70		AC15c	DL16b
60	DS0026CN	C	2	1.5		20	12n	1.0n	10u	TTL	2.0	.40	0.0	20	800m	0	70		AC15a	DL53
61	DS0026G	C	2	1.5		20	12n	1.0n	10u	TTL	2.0	.40	0.0	20	800m	55	125		AC15b	CN1c
62	DS0026H	C	2	1.5		20	12n	1.0n	10u	TTL	2.0	.40	0.0	20	800m	55	125		AC15	TO99
63	DS0026J	C	2	1.5		20	12n	1.0n	10u	TTL	2.0	.40	0.0	20	800m	55	125		AC15c	DL16b
64	DS0026W	C	2	1.5		20	12n	1.0n	10u	TTL	2.0	.40	0.0	20	800m	0	70		AC15c	FP6
65	DS0056CG	C	2	1.5		20	12n	1.0n	10u	TTL	2.0	.40	0.0	20	600m	0	70		AC20b	CN1c
66	DS0056CH	C	2	1.5		20	12n													

4. MEMORY/CLOCK DRIVERS

IN ORDER OF: (1)TYPE CODE (2)CKTS/DEVICE
(3)MIN. OUTPUT SINK CURR. & (4)TYPE NUMBER

LINE No.	TYPE NUMBER	TYPE CODE	CKTS PER DEV.	MIN. OUTPUT SINK CURR.		SINK OUTP. HIGH VOLT. (V)	PROPAGATION DELAY tpd (s)	MAXIMUM @CAP. C (F)	MAX. INPUT CURR. (LOW) (A)	T E C H N	INPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. OPERATE PWR. DISS. (W)	OPER. TEMP. (°C)	ADD. INPT. FUNC.	DRAWINGS		
				I (A)	@ Vo (V)						HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)				LOGIC DWG. No.	OUTLINE DWG. No.	
1	IM5003MDD	C	4	50m	6.0	11	7.0n†	200p		MOS	10.9†	9.3%†	10	10	1.0	55	125	AC31	DL73	
2	IM5003MPD	C	4	50m	6.0	11	7.0n†	200p		MOS	10.9†	9.3%†	10	10	800m	55	125	AC31	DL63a	
3	IM5003MTC	C	4	50m	6.0	11	7.0n†	200p		MOS	10.9†	9.3%†	10	10	1.5	55	125	AC31a	CN1a	
4	3207A-1F	C	4	100m		25	45n	200p	250u		2.0	.80	0.0	19	1.0	0	70	AC42	DL17h	
5	3207AF	C	4	100m		25	45n	200p	250u		2.0	.80	0.0	16	900m	0	70	AC42	DL17h	
6	ZN1002E	M	1	110m	.90	15	30n‡		1.6m	TTL	2.4	.40	0.0	5.0	325m	0	70	AC35	DL30b	
7	DS3629J	M	1	420m	.85		110n	20p	12m	TTL	3.5	.80	0.0	14	560m	0	70	D AC1a	DL17d	
8	DS3629N	M	1	420m	.85		110n	20p	12m	TTL	3.5	.80	0.0	14	560m	0	70	D AC1a	DL17d	
9	DS75324J	M	1	420m	.85		110n	20p	6.0m	TTL	3.5	.80	0.0	14	560m	0	70	D AC1	DL17d	
10	DS75324N	M	1	420m	.85		110n	20p	6.0m	TTL	3.5	.80	0.0	14	560m	0	70	D AC1	DL54	
11	55325F	M	2	600m		24	50n	25p			2.0	.80	0.0	5.0		55	125	AC43	DL4a	
12	75325F	M	2	600m		24	50n	25p			2.0	.80	0.0	5.0		0	70	AC43	DL4a	
13	DS55325J	M	2	600m	.70	23	50n	25p	1.6m	TTL	2.0	.80	0.0	24	1.5	55	125	AC10	DL17d	
14	DS55325W	M	2	600m	.70	23	50n	25p	1.6m	TTL	2.0	.80	0.0	24	1.5	55	125	AC10	FP7	
15	DS75325J	M	2	600m	.75	23	50n	25p	1.6m	TTL	2.0	.80	0.0	24	1.5	0	70	AC10	DL17d	
16	DS75325N	M	2	600m	.75	23	50n	25p	1.6m	TTL	2.0	.80	0.0	24	1.5	0	70	AC10	DL56	
17	MC55325F	M	2	600m	.70	23	50n	25p	3.2m	DTL	2.0	.80	0.0	5.0	350m	55	125	AC10	FP11	
18	MC55325L	M	2	600m	.70	23	50n	25p	3.2m	DTL	2.0	.80	0.0	5.0	350m	55	125	AC10	DL17b	
19	MC75325F	M	2	600m	.75	23	50n	25p	3.2m	DTL	2.0	.80	0.0	5.0	350m	0	70	AC10	FP11	
20	MC75325L	M	2	600m	.75	23	50n	25p	3.2m	DTL	2.0	.80	0.0	5.0	350m	0	70	AC10	DL17b	
21	MC75325P	M	2	600m	.75	23	50n	25p	3.2m	DTL	2.0	.80	0.0	5.0	350m	0	70	AC10	DL30	
22	DS1640J	M	4	20m	1.1	4.2	25n†	500p	750u	TTL	2.0	.80s	0.0	5.0	300m†	55	125	AC23a	DL16b	
23	DS1647J	M	4	20m	.50	3.4	7.0n†	50p	400u	TTL	2.0	.80s	0.0	5.0	500m	55	125	L AC26	DL17d	
24	DS1670J	M	4	20m	.50	4.2	25n†	500p	750u	TTL	2.0	.80s	0.0	5.0	300m†	55	125	L AC23	DL16b	
25	DS1677J	M	4	20m	.50	3.4	7.0n†	50p	400u	TTL	2.0	.80s	0.0	5.0	500m	55	125	L AC26	DL17d	
26	DS3640J	M	4	20m	1.1	4.2	25n†	500p	750u	TTL	2.0	.80s	0.0	5.0	300m†	0	70	L AC23a	DL16b	
27	DS3640N	M	4	20m	1.1	4.2	25n†	500p	750u	TTL	2.0	.80s	0.0	5.0	300m†	0	70	L AC23a	DL54	
28	DS3647J	M	4	20m	.50	3.4	7.0n†	50p	400u	TTL	2.0	.80s	0.0	5.0	500m	0	70	L AC26	DL17d	
29	DS3647N	M	4	20m	.50	3.4	7.0n†	50p	400u	TTL	2.0	.80s	0.0	5.0	500m	0	70	L AC26a	DL56	
30	DS3670J	M	4	20m	.50	4.2	25n†	500p	750u	TTL	2.0	.80s	0.0	5.0	300m†	0	70	L AC23	DL16b	
31	DS3670N	M	4	20m	.50	4.2	25n†	500p	750u	TTL	2.0	.80s	0.0	5.0	300m†	0	70	L AC23	DL54	
32	DS3677J	M	4	20m	.50	3.4	7.0n†	50p	400u	TTL	2.0	.80s	0.0	5.0	500m	0	70	L AC26	DL17d	
33	DS3677N	M	4	20m	.50	3.4	7.0n†	50p	400u	TTL	2.0	.80s	0.0	5.0	500m	0	70	L AC26	DL56	
34	DS16147J	M	4	20m	.50	3.4	7.0n†	50p	400u	TTL	2.0	.80s	0.0	5.0	500m	55	125	L AC26a	DL17d	
35	DS16177J	M	4	20m	.50	3.4	7.0n†	50p	400u	TTL	2.0	.80s	0.0	5.0	500m	55	125	L AC26	DL17d	
36	DS36147J	M	4	20m	.50	3.4	7.0n†	50p	400u	TTL	2.0	.80s	0.0	5.0	500m	0	70	L AC26a	DL17d	
37	DS36147N	M	4	20m	.50	3.4	7.0n†	50p	400u	TTL	2.0	.80s	0.0	5.0	500m	0	70	L AC26a	DL56	
38	DS36177J	M	4	20m	.50	3.4	7.0n†	50p	400u	TTL	2.0	.80s	0.0	5.0	500m	0	70	L AC26	DL17d	
39	DS36177N	M	4	20m	.50	3.4	7.0n†	50p	400u	TTL	2.0	.80s	0.0	5.0	500m	0	70	L AC26	DL56	
40	MC3459L	M	4	80m	.70		32n	360p	3.6m	NMS	2.0	.80	0.0	5.0	610m	0	70	AC11	TO116	
41	MC3459P	M	4	80m	.70		32n	360p	3.6m	NMS	2.0	.80	0.0	5.0	610m	0	70	AC11	DL29	
42	75324A	M	4	420m	.85		110n	20p		TTL	3.5	.80	0.0	14	800m	0	70	AC1	DL3a	
43	75324F	M	4	420m	.85		110n	20p		TTL	3.5	.80	0.0	14	800m	0	70	AC1	DL17h	
44	SN75324J	M	4	420m	.85		110n	20p	12m	TTL	3.5	.80	0.0	14	588m	0	70	D AC1	DL23	
45	SN75324N	M	4	420m	.85		110n	20p	12m	TTL	3.5	.80	0.0	14	588m	0	70	D AC1	DL24	
46	SN55326J	M	4	500m	.70	23	50n	25p	6.4m	TTL	2.0	.80	0.0	5.0	375m	55	125	AC8	DL25	
47	SN55326W	M	4	500m	.70	23	50n	25p	6.4m	TTL	2.0	.80	0.0	5.0	375m	55	125	AC8	Δ004AG	
48	SN55327J	M	4	500m	.70	23	55n	25p	6.4m	TTL	2.0	.80	0.0	5.0	275m	55	125	AC9	DL25	
49	SN55327W	M	4	500m	.70	23	55n	25p	6.4m	TTL	2.0	.80	0.0	5.0	275m	55	125	AC9	Δ004AG	
50	SN75326J	M	4	500m	.75	23	50n	25p	6.4m	TTL	2.0	.80	0.0	5.0	375m	0	70	AC8	DL25	
51	SN75326N	M	4	500m	.75	23	50n	25p	6.4m	TTL	2.0	.80	0.0	5.0	375m	0	70	AC8	DL26	
52	SN75327J	M	4	500m	.75	23	55n	25p	6.4m	TTL	2.0	.80	0.0	5.0	275m	0	70	AC9	DL25	
53	SN75327N	M	4	500m	.75	23	55n	25p	6.4m	TTL	2.0	.80	0.0	5.0	275m	0	70	AC9	DL26	
54	55325DM	M	4	600m	.70	23	50n	25p	1.6m	TTL	2.0	.80	0.0	24	1.5	55	125	AC10	DL17g	
55	55325FM	M	4	600m	.70	23	50n	25p	1.6m	TTL	2.0	.80	0.0	24	1.5	55	125	AC10	FP13	
56	75325DC	M	4	600m	.75	23	50n	25p	1.6m	TTL	2.0	.80	0.0	24	1.5	0	70	AC10	DL17g	
57	75325PC	M	4	600m	.75	23	50n	25p	1.6m	TTL	2.0	.80	0.0	24	1.5	0	70	AC10	DL52	
58	ITT55325J	M	4	600m	.70		50n	25p	1.6m	TTL	2.0	.80	0.0	24	1.5	55	125	AC10	DL7	
59	ITT55325N	M	4	600m	.70		50n	25p	1.6m	TTL	2.0	.80	0.0	24	1.5	55	125	AC10	DL7	
60	ITT75325J	M	4	600m	.75		50n	25p	1.6m	TTL	2.0	.80	0.0	24	1.5	0	70	AC10	DL7	
61	ITT75325N	M	4	600m	.75		50n	25p	1.6m	TTL	2.0	.80	0.0	24	1.5	0	70	AC10	DL7	
62	RC75325DD	M	4	600m	.75	23	50n	25p	1.6m	TTL	2.0	.80	0.0	24	1.0	†	0	70	AC10	DL17j
63	RM55325DD	M	4	600m	.70	23	50n	25p	1.6m	TTL	2.0	.80	0.0	24	1.0	†	55	125	AC10	DL17j
64	SFC5325E	M	4	600m	.75	19	50n	25p	1.6m	TTL	2.0	.80	0.0	5.0	350m	0	70	AC10	DL47a	
65	SFC5325KM	M	4	600m	.70	19	50n	25p	1.6m	TTL	2.0	.80	0.0	5.0	350m	55	125	AC10	DL47a	
66	SFC5325KT	M	4	600m	.75	19	50n	25p	1.6m	TTL	2.0	.80	0.0	5.0	350m	25	85	AC10	DL47a	
67	SN55325J	M	4	600m	.70	23	50n	25p	1.6m	TTL	2.0	.80	0.0	24	1.5	55	125	AC10	DL25	
68	SN55325W	M	4	600m	.70	23	50n	25p	1.6m	TTL	2.0	.80	0.0	24	1.5	55	125	AC10	Δ004AG	
69	SN75325J	M	4	600m	.75	23	50n	25p	1.6m	TTL	2.0	.80	0.0	24	1.5	0	70	AC10	DL25	
70	SN75325N	M	4	600m	.75	23	50n	25p	1.6m	TTL	2.0	.80	0.0	24	1.5	0	70	AC10	DL26	
71	DS1645J	M	6	20m	1.1	4.2	25n†	500p	500u	TTL	2.0	.80s	0.0	5.0	300m†	55	125	C AC24	DL17d	
72	DS1646J	M	6	20m	1.1	4.2	25n†	500p	250u	TTL	2.0	.80s	0.0	5.0	300m†	55	125	C AC25	DL17d	
73	DS1649J	M	6	20m	1.1	4.2	25n†	500p	250u	TTL	2.0	.80s	0.0	5.0	210m†	55	125	C AC27a	DL17d	
74	DS1675J	M	6	20m	.50	4.2	25n†	500p	500u	TTL	2.0	.80s	0.0	5.0	300m†	55	125	C AC24	DL17d	
75	DS1676J	M	6	20m	.50	4.2	25n†	500p	250u											

5. PERIPHERAL/POWER DRIVERS

IN ORDER OF: (1)KCTS/DEVICE (2)ABS. MAX Ion
(3)ABS. MAX. COLLECTOR VOLT. &(4)TYPE NUMBER

LINE No.	TYPE NUMBER	KCTS. PER DEV.	OUTPUT TRANSIS.		MAX. VOLTAGE	OUTPUT @ Ic	OVER-ALL GATE FUNCTION CODE	IN-PUT COMP	MAX. PROP. DELAY (s)	T E C H N	INPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS	
			2 ABS. MAX. Ion	3 AB OUTP VCE-CON							HIGH (min)	LOW (max)	NEG. (V)	POS. (V)		(-) (°C)	(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No.
1	DH0011CH	1	150m	40	OE	450m	150m	MUL	A	TTL	1.9†	1.1†	0.0	5.0	800m	0	70	AD66	CN11
2	DH0011CN	1	150m	40	OE	450m	150m	MUL	A	TTL	1.9†	1.1†	0.0	5.0	800m	0	70	AD66	DL22
3	DH0011H	1	250m	40	OE	400m	250m	MUL	A	TTL	1.9†	1.1†	0.0	5.0	800m	55	125	AD66	CN11
4	SH2002FC	1	250m	40	OC	450m	250m	NAND	A	TTL	1.9†	1.1†	0.0	5.0	153m	0	75	AD34a	TO91
5	SH2002FM	1	250m	40	OC	400m	250m	NAND	A	TTL	1.9†	1.1†	0.0	5.0	153m	55	125	AD34a	TO100
6	SH2002HC	1	250m	40	OC	450m	150m	NAND	A	TTL	1.9†	1.1†	0.0	5.0	153m	0	75	AD34a	TO100
7	SH2002HM	1	250m	40	OC	400m	250m	NAND	A	TTL	1.9†	1.1†	0.0	5.0	153m	55	125	AD34a	TO100
8	DH0016CN	1	250m	70	OE	600m	250m	MUL	A	TTL	1.8†	85†	0.0	5.0	455m	0	70	AD66	DL22
9	SH2001FC	1	500m	40	OC	450m	150m	NAND	A	TTL	1.9†	1.1†	0.0	5.0	153m	0	75	AD34a	TO91
10	SH2001FM	1	500m	40	OC	400m	150m	NAND	A	TTL	1.9†	1.1†	0.0	5.0	153m	55	125	AD34a	TO91
11	SH2001HC	1	500m	40	OC	450m	150m	NAND	A	TTL	1.9†	1.1†	0.0	5.0	153m	0	75	AD34a	TO100
12	SH2001HM	1	500m	40	OC	400m	150m	NAND	A	TTL	1.9†	1.1†	0.0	5.0	153m	55	125	AD34a	TO100
13	DH0017CN	1	500m	50	OE	600m	500m	MUL	A	TTL	1.8†	85†	0.0	5.0	455m	0	70	AD66	DL22
14	SH2200FC	1	500m	50	OC	600m	500m	NAND	A	TTL	1.8†	85†	0.0	5.0	62m	0	75	AD34a	TO91
15	SH2200FM	1	500m	50	OC	600m	500m	NAND	A	TTL	1.7†	90†	0.0	5.0	55m	55	125	AD34a	TO91
16	SH2200HC	1	500m	50	OC	600m	500m	NAND	A	TTL	1.8†	85†	0.0	5.0	62m	0	75	AD34a	TO100
17	SH2200HM	1	500m	50	OC	600m	500m	NAND	A	TTL	1.7†	90†	0.0	5.0	55m	55	125	AD34a	TO100
18	DH0018CN	1	500m	100	OE	600m	500m	MUL	A	TTL	1.8†	85†	0.0	5.0	455m	0	70	AD66	DL22
19	SH2201FC	1	500m	100	OC	600m	500m	NAND	A	TTL	1.8†	85†	0.0	5.0	62m	0	75	AD34a	TO91
20	SH2201FM	1	500m	100	OC	600m	500m	NAND	A	TTL	1.7†	90†	0.0	5.0	55m	55	125	AD34a	TO91
21	SH2201HC	1	500m	100	OC	600m	500m	NAND	A	TTL	1.8†	85†	0.0	5.0	62m	0	75	AD34a	TO100
22	SH2201HM	1	500m	100	OC	600m	500m	NAND	A	TTL	1.7†	90†	0.0	5.0	55m	55	125	AD34a	TO100
23	CH2001A	1	750m	40	OC	700m	500m	NAND	A	TTL	2.0	80	0.0	8.0	500m	25	75	AD34	MD3a
24	DH0028CH	1	750m	45	AH	43%	1.6	MUL	A	TTL	2.0	80	0.0	36	45m	0	70	AD67	CN11
25	DH0028CN	1	1.0	45	AH	43%	1.6	MUL	A	TTL	2.0	80	0.0	36	45m	0	70	AD67	DL22
26	DH0006CH	1	1.5 #	45	OC	27†	400m	AND	A	DTL	2.0	80	0.0	28	35m	0	70	AD64	CN11
27	DH0006CN	1	1.5 #	45	OC	27†	400m	AND	A	DTL	2.0	80	0.0	28	35m	0	70	AD64	DL22
28	DH0008H	1	1.5 #	45	OC	27†	400m	AND	A	DTL	2.0	80	0.0	28	35m	55	125	AD64	CN11
29	DH0008CH	1	3.0 #	45	OC	27†	800m	AND	A	DTL	2.0	80	0.0	28	35m	0	70	AD65	CN11
30	DH0008CN	1	3.0 #	45	OC	27†	800m	AND	A	DTL	2.0	80	0.0	28	35m	0	70	AD65	DL22
31	DH0008H	1	3.0 #	45	OC	27†	800m	AND	A	DTL	2.0	80	0.0	28	35m	55	125	AD65	CN11
32	BH80007	1	5.0	40	OC	1.8	5.0	NAIV	A	TTL	2.0	80	0.0	5.0	25m	0	70	AD62	MD140
33	BH80007A	1	5.0	60	OC	1.8	5.0	NAIV	A	TTL	2.0	80	0.0	5.0	25m	0	70	AD62	MD140
34	BH80008	1	1	10	OC	1.8	10	NAIV	A	TTL	2.0	80	0.0	5.0	25m	0	70	AD62	MD140
35	BH80008A	1	1	10	OC	1.8	10	NAIV	A	TTL	2.0	80	0.0	5.0	25m	0	70	AD62	MD140
36	MB439	2								TTL	2.0	80	0.0	5.0	200m†	0	70	AD58	DL16g
37	MB439M	2								TTL	2.0	80	0.0	5.0	200m†	0	70	AD58	DL16f
38	ZST2	2	100m	30	OC	60	100m	INV	A	DTL	2.5†	1.0†	0.0	4.0	120m†	40	125	AD61	CN9
39	MC679BLBP%	2	125m	24	OC	1.0	150m	NAND	D	DTL	9.0†	6.5†	0.0	15	250m†	35	75	AD63	TO116
40	MC679LP%	2	150m	30	OC	1.0	150m	NAND	D	DTL	8.5†	6.5†	0.0	15	250m†	35	75	AD63	TO116
41	CLD4	2	250m	80	OC	600m	250m	MUL	T	DTL	2.7	80	0.0	5.0	150m	55	125	AD33	MD23
42	SN75430J	2	300m	15	EC	700m	300m	AND	A	TTL	2.0	80	0.0	5.0	55m	0	70	AD35	DL23
43	SN75430N	2	300m	15	EC	700m	300m	AND	A	TTL	2.0	80	0.0	5.0	55m	0	70	AD35	DL24
44	SN75431JG	2	300m	15	OC	700m	300m	AND	A	TTL	2.0	80	0.0	5.0	325m	0	70	AD36	DL27
45	SN75431P	2	300m	15	OC	700m	300m	AND	A	TTL	2.0	80	0.0	5.0	325m	0	70	AD36	DL28
46	SN75432JG	2	300m	15	OC	700m	300m	NAND	A	TTL	2.0	80	0.0	5.0	355m	0	70	AD37	DL27
47	SN75432P	2	300m	15	OC	700m	300m	NAND	A	TTL	2.0	80	0.0	5.0	355m	0	70	AD37	DL28
48	SN75433JG	2	300m	15	OC	700m	300m	OR	A	TTL	2.0	80	0.0	5.0	340m	0	70	AD38	DL27
49	SN75433P	2	300m	15	OC	700m	300m	OR	A	TTL	2.0	80	0.0	5.0	340m	0	70	AD38	DL28
50	SN75434JG	2	300m	15	OC	700m	300m	NOR	A	TTL	2.0	80	0.0	5.0	395m	0	70	AD39	DL27
51	SN75434P	2	300m	15	OC	700m	300m	NOR	A	TTL	2.0	80	0.0	5.0	395m	0	70	AD39	DL28
52	55450ADM	2	300m	30	IT	800m	300m	NAAD	A	TTL	2.0	80	0.0	5.0	55m	55	125	AD35	DL16c
53	55450AFM	2	300m	30	IT	800m	300m	NAAD	A	TTL	2.0	80	0.0	5.0	55m	55	125	AD35	TO86
54	55450BDM	2	300m	30	IT	800m	300m	NAAD	A	TTL	2.0	80	0.0	5.0	55m	55	125	AD35	DL16c
55	55450BF	2	300m	30	IT	800m	300m	NAAD	A	TTL	2.0	80	0.0	5.0	800m	55	125	AD35a	DL16d
56	55450BFM	2	300m	30	IT	800m	300m	NAAD	A	TTL	2.0	80	0.0	5.0	55m	55	125	AD35	TO86
57	55451AHM	2	300m	30	OC	800m	300m	AND	A	TTL	2.0	80	0.0	5.0	325m	55	125	AD36	TO99
58	55451ARM	2	300m	30	OC	800m	300m	AND	A	TTL	2.0	80	0.0	5.0	325m	55	125	AD36	DL27a
59	55451BHM	2	300m	30	OC	800m	300m	AND	A	TTL	2.0	80	0.0	5.0	325m	55	125	AD36	TO99
60	55451BRM	2	300m	30	OC	800m	300m	AND	A	TTL	2.0	80	0.0	5.0	325m	55	125	AD36	DL27a
61	55451BT	2	300m	30	OC	800m	300m	AND	A	TTL	2.0	80	0.0	5.0	800m	55	125	AD36	CN11
62	55452AHM	2	300m	30	OC	800m	300m	NAND	A	TTL	2.0	80	0.0	5.0	355m	55	125	AD37	TO99
63	55452ARM	2	300m	30	OC	800m	300m	NAND	A	TTL	2.0	80	0.0	5.0	355m	55	125	AD37	DL27a
64	55452BHM	2	300m	30	OC	800m	300m	NAND	A	TTL	2.0	80	0.0	5.0	355m	55	125	AD37	TO99
65	55452BRM	2	300m	30	OC	800m	300m	NAND	A	TTL	2.0	80	0.0	5.0	355m	55	125	AD37	DL27a
66	55452BT	2	300m	30	OC	800m	300m	NAND	A	TTL	2.0	80	0.0	5.0	800m	55	125	AD37	CN11
67	55453AHM	2	300m	30	OC	800m	300m	OR	A	TTL	2.0	80	0.0	5.0	340m	55	125	AD38	TO99
68	55453ARM	2	300m	30	OC	800m	300m	OR	A	TTL	2.0	80	0.0	5.0	340m	55	125	AD38	DL27a
69	55453BHM	2	300m	30	OC	800m	300m	OR	A	TTL	2.0	80	0.0	5.0	340m	55	125	AD38	TO99
70	55453BRM	2	300m	30	OC	800m	300m	OR	A	TTL	2.0	80	0.0	5.0	340m	55	125	AD38	DL27a
71	55453BT	2	300m	30	OC	800m	300m	OR	A	TTL	2.0	80	0.0	5.0	800m	55	125	AD38	CN11
72	55454AHM	2	300m	30	OC	800m	300m	NOR	A	TTL	2.0	80	0.0	5.0	395m	55	125	AD39	TO99
73	55454ARM	2	300m	30	OC	800m	300m	NOR	A	TTL	2.0	80	0.0	5.0	395m	55	125	AD39	DL27a
74	55454BHM	2	300m	30	OC	800m	300m	NOR	A	TTL	2.0	80	0.0	5.0	395m	55	125	AD39	TO99
75	55454BRM	2	300m	30	OC	800m	300m	NOR	A	TTL	2.0	80	0.0	5.0	395m	55	125	AD39	DL27a
76	55454BT	2	300m	30	OC	800m	300m	NOR	A	TTL	2.0	80	0.0	5.0	800m	55	125	AD39	CN11</

5. PERIPHERAL/POWER DRIVERS

IN ORDER OF: (1)CKTS/DEVICE (2)ABS. MAX Ion (3)ABS. MAX. COLLECTOR VOLT. &(4)TYPE NUMBER

LINE No.	TYPE NUMBER	1 CKTS. PER DEV.	OUTPUT TRANSIS.		MAX. V _{on}	MAX. I _c	OVER-ALL GATE FUNCT. CODE	IN-PUT COMP	MAX. PROP. DELAY t _{pd}	T E C H	INPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS				
			2 ABS. MAX. Ion	3 AB. MAX. V _{CE}							4 ONN P-ECT	5 V _{on}	6 I _c	HIGH (min)		LOW (max)	NEG. (V)	POS. (V)	(-) (°C)	(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No.
			(A)	(V)							(V)	(A)	(V)	(V)		(V)	(V)	(V)	(°C)	(°C)	No.	No.
1	DS55451H	2	300m	30	OC	800m	300m	AND	A	30n	TTL	2.0	.80	0.0	5.0	325m	55	125	AD36	TO99		
2	DS55452H	2	300m	30	OC	800m	300m	NAND	A	30n	TTL	2.0	.80	0.0	5.0	355m	55	125	AD37	TO99		
3	DS55453H	2	300m	30	OC	800m	300m	OR	A	30n	TTL	2.0	.80	0.0	5.0	340m	55	125	AD38	TO99		
4	DS55454H	2	300m	30	OC	800m	300m	NOR	A	30n	TTL	2.0	.80	0.0	5.0	395m	55	125	AD39	TO99		
5	DS75450J	2	300m	30	IT	700m	300m	NAAD	A	30n	TTL	2.0	.80	0.0	5.0	55m	0	70	AD35	DL16b		
6	DS75450N	2	300m	30	IT	700m	300m	NAAD	A	30n	TTL	2.0	.80	0.0	5.0	55m	0	70	AD35	DL53		
7	DS75451H	2	300m	30	OC	700m	300m	AND	A	30n	TTL	2.0	.80	0.0	5.0	325m	0	70	AD36	TO99		
8	DS75451N	2	300m	30	OC	700m	300m	AND	A	30n	TTL	2.0	.80	0.0	5.0	325m	0	70	AD36	DL53		
9	DS75452H	2	300m	30	OC	700m	300m	NAND	A	30n	TTL	2.0	.80	0.0	5.0	355m	0	70	AD37	TO99		
10	DS75452N	2	300m	30	OC	700m	300m	NAND	A	30n	TTL	2.0	.80	0.0	5.0	355m	0	70	AD37	DL53		
11	DS75453H	2	300m	30	OC	700m	300m	OR	A	30n	TTL	2.0	.80	0.0	5.0	340m	0	70	AD38	TO99		
12	DS75453N	2	300m	30	OC	700m	300m	OR	A	30n	TTL	2.0	.80	0.0	5.0	340m	0	70	AD38	DL53		
13	DS75454H	2	300m	30	OC	700m	300m	NOR	A	30n	TTL	2.0	.80	0.0	5.0	395m	0	70	AD39	TO99		
14	DS75454N	2	300m	30	OC	700m	300m	NOR	A	30n	TTL	2.0	.80	0.0	5.0	395m	0	70	AD39	DL53		
15	ITT75450J	2	300m	30	IT	700m	300m	AND	T	30nt	TTL	2.0	.80	0.0	5.0	55m	0	70	AD35	DL3d		
16	ITT75451-5T	2	300m	30	OC	700m	300m	AND	T	25nt	TTL	2.0	.80	0.0	5.0	325m	0	70	AD1	DL27d		
17	ITT75452-5T	2	300m	30	OC	700m	300m	NAND	T	25nt	TTL	2.0	.80	0.0	5.0	355m	0	70	AD2	DL27d		
18	ITT75453-5T	2	300m	30	OC	700m	300m	OR	T	25nt	TTL	2.0	.80	0.0	5.0	340m	0	70	AD3	DL27d		
19	ITT75454-5T	2	300m	30	OC	700m	300m	NOR	T	25nt	TTL	2.0	.80	0.0	5.0	395m	0	70	AD4	DL27d		
20	M54600P	2	300m	30	IT	700m	300m	AND	T	22n	TTL	2.0	.80	0.0	5.0	325m	0	75	AD35	TO116		
21	M54601P	2	300m	30	OC	700m	300m	AND	T	21n	TTL	2.0	.70%	0.0	5.0	325m	0	75	AD36	DL44		
22	M54602P	2	300m	30	OC	700m	300m	NAND	T	24n	TTL	2.0	.70%	0.0	5.0	355m	0	75	AD37	DL44		
23	M54603P	2	300m	30	OC	700m	300m	OR	T	21n	TTL	2.0	.70%	0.0	5.0	340m	0	75	AD38	DL44		
24	M54604P	2	300m	30	OC	700m	300m	NOR	T	24n	TTL	2.0	.70%	0.0	5.0	395m	0	75	AD39	DL44		
25	M54605P	2	300m	30	IT	700m	300m	NAND	T	40n	TTL	2.0	.80	0.0	5.0	355m	0	75	AD44	TO116		
26	MC75450L	2	300m	30	IT	700m	300m	NAAD	A	21n	TTL	2.0	.80	0.0	5.0	55m	0	70	AD35	TO116		
27	MC75450P	2	300m	30	IT	700m	300m	NAAD	A	21n	TTL	2.0	.80	0.0	5.0	55m	0	70	AD35	DL29		
28	MC75451P	2	300m	30	OC	700m	300m	AND	T	18nt	TTL	2.0	.80	0.0	5.0	325m	0	70	AD36	DL40		
29	MC75452P	2	300m	30	OC	700m	300m	NAND	T	18nt	TTL	2.0	.80	0.0	5.0	355m	0	70	AD37	DL40		
30	MC75453P	2	300m	30	OC	700m	300m	OR	T	17nt	TTL	2.0	.80	0.0	5.0	340m	0	70	AD38	DL40		
31	MC75454P	2	300m	30	OC	700m	300m	NOR	T	25nt	TTL	2.0	.80	0.0	5.0	395m	0	70	AD39	DL40		
32	SFC5450AE	2	300m	30	IT	700m	300m	NAAD	T	20n	TTL	2.0	.80	0.0	5.0	800m	0	70	AD35	TO116		
33	SFC5451AD	2	300m	30	OC	700m	300m	AND	T	45nt	TTL	2.0	.80	0.0	5.25	800m	0	70	AD36	DL51		
34	SFC5452D	2	300m	30	OC	700m	300m	AND	T	50nt	TTL	2.0	.80	0.0	5.25	372m	0	70	AD37	DL51		
35	SG55450BJ	2	300m	30	IT	800m	300m	NAAD	T	65n	TTL	2.0	.80	0.0	5.0	1.0	55	125	AD35	DL23a		
36	SG75450BJ	2	300m	30	IT	700m	300m	NAAD	T	65n	TTL	2.0	.80	0.0	5.0	1.0	0	70	AD35	DL23a		
37	SG75450BN	2	300m	30	IT	700m	300m	NAAD	T	65n	TTL	2.0	.80	0.0	5.0	600m	0	70	AD35	DL63c		
38	SN55450BJ	2	300m	30	IT	800m	300m	AND	A	30n	TTL	2.0	.80	0.0	5.0	55m	55	125	AD35	DL23		
39	SN55451BJG	2	300m	30	OC	800m	300m	AND	A	25n	TTL	2.0	.80	0.0	5.0	325m	55	125	AD36	DL27		
40	SN55452BJG	2	300m	30	OC	800m	300m	NAND	A	35n	TTL	2.0	.80	0.0	5.0	355m	55	125	AD37	DL27		
41	SN55453BJG	2	300m	30	OC	800m	300m	OR	A	25n	TTL	2.0	.80	0.0	5.0	340m	55	125	AD38	DL27		
42	SN55454BJG	2	300m	30	OC	800m	300m	NOR	A	35n	TTL	2.0	.80	0.0	5.0	395m	55	125	AD39	DL27		
43	SN75450BJ	2	300m	30	IT	800m	300m	AND	A	30n	TTL	2.0	.80	0.0	5.0	55m	0	70	AD35	DL23		
44	SN75450BN	2	300m	30	IT	700m	300m	AND	A	30n	TTL	2.0	.80	0.0	5.0	55m	0	70	AD35	DL24		
45	SN75451BJG	2	300m	30	OC	700m	300m	AND	A	25n	TTL	2.0	.80	0.0	5.0	325m	0	70	AD36	DL27		
46	SN75451BP	2	300m	30	OC	700m	300m	AND	A	25n	TTL	2.0	.80	0.0	5.0	325m	0	70	AD36	DL28		
47	SN75452BJG	2	300m	30	OC	700m	300m	NAND	A	35n	TTL	2.0	.80	0.0	5.0	355m	0	70	AD37	DL27		
48	SN75452BP	2	300m	30	OC	700m	300m	NAND	A	35n	TTL	2.0	.80	0.0	5.0	355m	0	70	AD37	DL28		
49	SN75453BJG	2	300m	30	OC	700m	300m	OR	A	25n	TTL	2.0	.80	0.0	5.0	340m	0	70	AD38	DL27		
50	SN75453BP	2	300m	30	OC	700m	300m	OR	A	25n	TTL	2.0	.80	0.0	5.0	340m	0	70	AD38	DL28		
51	SN75454BJG	2	300m	30	OC	700m	300m	NOR	A	35n	TTL	2.0	.80	0.0	5.0	395m	0	70	AD39	DL27		
52	SN75454BP	2	300m	30	OC	700m	300m	NOR	A	35n	TTL	2.0	.80	0.0	5.0	395m	0	70	AD39	DL28		
53	55461HM	2	300m	35	OC	800m	300m	AND	A	55n	TTL	2.0	.80	0.0	5.0	380m	55	125	AD36	TO99		
54	55461RM	2	300m	35	OC	800m	300m	AND	A	55n	TTL	2.0	.80	0.0	5.0	380m	55	125	AD36	DL27a		
55	55462HM	2	300m	35	OC	800m	300m	NAND	A	65n	TTL	2.0	.80	0.0	5.0	380m	55	125	AD37	TO99		
56	55462RM	2	300m	35	OC	800m	300m	NAND	A	65n	TTL	2.0	.80	0.0	5.0	380m	55	125	AD37	DL27a		
57	55463HM	2	300m	35	OC	800m	300m	OR	A	55n	TTL	2.0	.80	0.0	5.0	380m	55	125	AD38	TO99		
58	55463RM	2	300m	35	OC	800m	300m	OR	A	55n	TTL	2.0	.80	0.0	5.0	380m	55	125	AD38	DL27a		
59	55464HM	2	300m	35	OC	800m	300m	NOR	A	65n	TTL	2.0	.80	0.0	5.0	425m	55	125	AD39	TO99		
60	55464RM	2	300m	35	OC	800m	300m	NOR	A	65n	TTL	2.0	.80	0.0	5.0	425m	55	125	AD39	DL27a		
61	75461HC	2	300m	35	OC	700m	300m	AND	A	55n	TTL	2.0	.80	0.0	5.0	380m	0	70	AD36	TO99		
62	75461RC	2	300m	35	OC	700m	300m	AND	A	55n	TTL	2.0	.80	0.0	5.0	380m	0	70	AD36	DL27a		
63	75461TC	2	300m	35	OC	700m	300m	AND	A	55n	TTL	2.0	.80	0.0	5.0	380m	0	70	AD36	DL65		
64	75462HC	2	300m	35	OC	700m	300m	NAND	A	65n	TTL	2.0	.80	0.0	5.0	380m	0	70	AD37	TO99		
65	75462RC	2	300m	35	OC	700m	300m	NAND	A	65n	TTL	2.0	.80	0.0	5.0	380m	0	70	AD37	DL27a		
66	75462TC	2	300m	35	OC	700m	300m	NAND	A	65n	TTL	2.0	.80	0.0	5.0	380m	0	70	AD37	DL65		
67	75463HC	2	300m	35	OC	700m	300m	OR	A	55n	TTL	2.0	.80	0.0	5.0	380m	0	70	AD38	TO99		
68	75463RC	2	300m	35	OC	700m	300m	OR	A	55n	TTL	2.0	.80	0.0	5.0	380m	0	70	AD38	DL27a		
69	75463TC	2	300m	35	OC	700m	300m	OR	A	55n	TTL	2.0	.80	0.0	5.0	380m	0	70	AD38	DL65		
70	75464HC	2	300m	35	OC	700m	300m	NOR	A	65n	TTL	2.0	.80	0.0	5.0	425m	0	70	AD39	TO99		
71	75464RC	2	300m	35	OC	700m	300m	NOR	A	65n	TTL	2.0	.80	0.0	5.0	425m	0	70	AD39	DL27a		
72	75464TC	2	300m	35	OC	700m																

5. PERIPHERAL/POWER DRIVERS

IN ORDER OF: (1)CKTS/DEVICE (2)ABS. MAX Ion
(3)ABS. MAX. COLLECTOR VOLT. &(4)TYPE NUMBER

LINE No.	TYPE NUMBER	1 CKTS. PER DEV.	2. OUTPUT		3 MAX. VCE	4 AB -ECT	MAX. OUTPUT ON VOLTAGE @ Ic	OVER -ALL GATE FUNCT CODE	IN- PUT COMP	MAX. PROP. DELAY tpd	T E C H N	INPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS	
			MAX. Ion	MAX. VOLTAGE								HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)		(-) (°C)	(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO
			(A)	(V)								(V)	(V)	(V)	(V)		(°C)	(°C)	No.	No.
1	55473HM	2	300m	40	OC	800m	300m	OR	A	65n	TTL	2.0	80	0.0	5.0	380m	55	125	AD38	TO99
2	55473RM	2	300m	40	OC	800m	300m	OR	A	65n	TTL	2.0	80	0.0	5.0	380m	55	125	AD38	DL27a
3	55474HM	2	300m	40	OC	800m	300m	OR	A	65n	TTL	2.0	80	0.0	5.0	380m	55	125	AD39	TO99
4	55474RM	2	300m	40	OC	800m	300m	OR	A	65n	TTL	2.0	80	0.0	5.0	380m	55	125	AD39	DL27a
5	75460DC	2	300m	40	IT	700m	300m	NAAD	A	65n	TTL	2.0	80	0.0	5.0	55m	0	70	AD35	DL16c
6	75460PC	2	300m	40	IT	700m	300m	NAAD	A	65n	TTL	2.0	80	0.0	5.0	55m	0	70	AD35	DL68
7	75471HC	2	300m	40	OC	700m	300m	AND	A	65n	TTL	2.0	80	0.0	5.0	380m	0	70	AD36	TO99
8	75471RC	2	300m	40	OC	700m	300m	AND	A	65n	TTL	2.0	80	0.0	5.0	380m	0	70	AD36	DL27a
9	75471TC	2	300m	40	OC	700m	300m	AND	A	65n	TTL	2.0	80	0.0	5.0	380m	0	70	AD36	DL65
10	75472HC	2	300m	40	OC	700m	300m	NAND	A	75n	TTL	2.0	80	0.0	5.0	380m	0	70	AD37	TO99
11	75472RC	2	300m	40	OC	700m	300m	NAND	A	75n	TTL	2.0	80	0.0	5.0	380m	0	70	AD37	DL27a
12	75472TC	2	300m	40	OC	700m	300m	NAND	A	75n	TTL	2.0	80	0.0	5.0	380m	0	70	AD37	DL65
13	75473HC	2	300m	40	OC	700m	300m	OR	A	65n	TTL	2.0	80	0.0	5.0	380m	0	70	AD38	TO99
14	75473RC	2	300m	40	OC	700m	300m	OR	A	65n	TTL	2.0	80	0.0	5.0	380m	0	70	AD38	DL27a
15	75473TC	2	300m	40	OC	700m	300m	OR	A	65n	TTL	2.0	80	0.0	5.0	380m	0	70	AD38	DL65
16	75474HC	2	300m	40	OC	700m	300m	OR	A	65n	TTL	2.0	80	0.0	5.0	380m	0	70	AD39	TO99
17	75474RC	2	300m	40	OC	700m	300m	OR	A	65n	TTL	2.0	80	0.0	5.0	380m	0	70	AD39	DL27a
18	75474TC	2	300m	40	OC	700m	300m	OR	A	65n	TTL	2.0	80	0.0	5.0	380m	0	70	AD39	DL65
19	DS55460J	2	300m	40	IT	800m	300m	NAAD	A	65n	TTL	2.0	80	0.0	5.0	55m	55	125	AD35	DL16b
20	DS75460J	2	300m	40	IT	700m	300m	NAAD	A	65n	TTL	2.0	80	0.0	5.0	55m	0	70	AD35	DL16b
21	DS75460N	2	300m	40	IT	700m	300m	NAAD	A	65n	TTL	2.0	80	0.0	5.0	55m	0	70	AD35	DL53
22	IT75460J	2	300m	40	IT	400m	100m	AND	T	65n	TTL	2.0	80	0.0	5.0	55m	0	70	AD35	DL31
23	SG55460J	2	300m	40	IT	800m	300m	NAAD	T	65n	TTL	2.0	80	0.0	5.0	1.0	55	125	AD35	DL23a
24	SG75460J	2	300m	40	IT	700m	300m	NAAD	T	65n	TTL	2.0	80	0.0	5.0	1.0	70	AD35	DL23a	
25	SG75460N	2	300m	40	IT	700m	300m	NAAD	T	65n	TTL	2.0	80	0.0	5.0	600m	70	AD35	DL63c	
26	SN55460J	2	300m	40	IT	800m	300m	NAND	A	65n	TTL	2.0	80	0.0	5.0	55m	55	125	AD35	DL23
27	SN55470J	2	300m	40	IT	800m	300m	NAAD	A	65n	TTL	2.0	80	0.0	5.0	55m	55	125	AD35	DL23
28	SN75470J	2	300m	40	IT	700m	300m	NAAD	A	65n	TTL	2.0	80	0.0	5.0	55m	0	70	AD35	DL23
29	SN75470N	2	300m	40	IT	700m	300m	NAAD	A	65n	TTL	2.0	80	0.0	5.0	55m	0	70	AD35	DL24
30	55470DM	2	300m	50	IT	800m	300m	NAAD	A	75n	TTL	2.0	80	0.0	5.0	55m	55	125	AD35	DL16c
31	55470FM	2	300m	50	IT	800m	300m	NAAD	A	75n	TTL	2.0	80	0.0	5.0	55m	55	125	AD35	TO86
32	75470DC	2	300m	50	IT	700m	300m	NAAD	A	75n	TTL	2.0	80	0.0	5.0	55m	0	70	AD35	DL16c
33	75470PC	2	300m	50	IT	700m	300m	NAAD	A	75n	TTL	2.0	80	0.0	5.0	55m	0	70	AD35	DL68
34	SN75475JG	2	300m	50	OC	600m	300m	NAND	B	200n	TTL	2.0	80	0.0	5.0	325m	0	70	AD9	DL27
35	SN75475P	2	300m	50	OC	600m	300m	NAND	B	200n	TTL	2.0	80	0.0	5.0	325m	0	70	AD9	DL28
36	DS1631H	2	300m	56	OC	1.1	300m	AND	X	200n	CMS	12.5	2.5	0.0	15	210m	55	125	AD49	TO99
37	DS1631J	2	300m	56	OC	1.1	300m	AND	X	200n	CMS	12.5	2.5	0.0	15	210m	55	125	AD49	DL16b
38	DS1632H	2	300m	56	OC	1.1	300m	NAND	X	150n	CMS	12.5	2.5	0.0	15	90m	55	125	AD50	TO99
39	DS1632J	2	300m	56	OC	1.1	300m	NAND	X	150n	CMS	12.5	2.5	0.0	15	90m	55	125	AD50	DL16b
40	DS1633H	2	300m	56	OC	1.1	300m	OR	X	200n	CMS	12.5	2.5	0.0	15	80m	55	125	AD51	TO99
41	DS1633J	2	300m	56	OC	1.1	300m	OR	X	200n	CMS	12.5	2.5	0.0	15	80m	55	125	AD51	DL16b
42	DS1634H	2	300m	56	OC	1.1	300m	NOR	X	150n	CMS	12.5	2.5	0.0	15	90m	55	125	AD52	TO99
43	DS1634J	2	300m	56	OC	1.1	300m	NOR	X	150n	CMS	12.5	2.5	0.0	15	90m	55	125	AD52	DL16b
44	DS1686H	2	300m	56	OC	1.1	300m	NAND	X	500n	TTL	2.0	80	0.0	5.0	90m	55	125	AD53	TO99
45	DS1686J	2	300m	56	OC	1.1	300m	NAND	X	500n	TTL	2.0	80	0.0	5.0	90m	55	125	AD53	DL16b
46	DS1687H	2	300m	56	OC	1.1	300m	NAND	X	500n	TTL	2.0	80	0.0	5.0	90m	55	125	AD54	TO99
47	DS1687J	2	300m	56	OC	1.1	300m	NAND	X	500n	TTL	2.0	80	0.0	5.0	90m	55	125	AD54	DL16b
48	DS3631H	2	300m	56	OC	1.1	300m	AND	X	200n	CMS	12.5	2.5	0.0	15	210m	0	70	AD49	TO99
49	DS3631J	2	300m	56	OC	1.1	300m	AND	X	200n	CMS	12.5	2.5	0.0	15	210m	0	70	AD49	DL16b
50	DS3631N	2	300m	56	OC	1.1	300m	NAND	X	200n	CMS	12.5	2.5	0.0	15	210m	0	70	AD49	DL53
51	DS3632H	2	300m	56	OC	1.1	300m	NAND	X	150n	CMS	12.5	2.5	0.0	15	90m	0	70	AD50	TO99
52	DS3632J	2	300m	56	OC	1.1	300m	NAND	X	150n	CMS	12.5	2.5	0.0	15	90m	0	70	AD50	DL16b
53	DS3632N	2	300m	56	OC	1.1	300m	AND	X	150n	CMS	12.5	2.5	0.0	15	90m	0	70	AD50	DL53
54	DS3633H	2	300m	56	OC	1.1	300m	OR	X	200n	CMS	12.5	2.5	0.0	15	80m	0	70	AD51	TO99
55	DS3633J	2	300m	56	OC	1.1	300m	OR	X	200n	CMS	12.5	2.5	0.0	15	80m	0	70	AD51	DL16b
56	DS3634H	2	300m	56	OC	1.1	300m	NOR	X	150n	CMS	12.5	2.5	0.0	15	90m	0	70	AD52	TO99
57	DS3634J	2	300m	56	OC	1.1	300m	NOR	X	150n	CMS	12.5	2.5	0.0	15	90m	0	70	AD52	DL16b
58	DS3686H	2	300m	56	OC	1.1	300m	NAND	X	500n	TTL	2.0	80	0.0	5.0	90m	0	70	AD53	TO99
59	DS3686J	2	300m	56	OC	1.1	300m	NAND	X	500n	TTL	2.0	80	0.0	5.0	90m	0	70	AD53	DL16b
60	DS3686N	2	300m	56	OC	1.1	300m	NAND	X	500n	TTL	2.0	80	0.0	5.0	90m	0	70	AD53	DL53
61	DS3687H	2	300m	56	OC	1.1	300m	NAND	X	500n	TTL	2.0	80	0.0	5.0	90m	0	70	AD54	TO99
62	DS3687J	2	300m	56	OC	1.1	300m	NAND	X	500n	TTL	2.0	80	0.0	5.0	90m	0	70	AD54	DL16b
63	DS3687N	2	300m	56	OC	1.1	300m	NAND	X	500n	TTL	2.0	80	0.0	5.0	90m	0	70	AD54	DL53
64	SN55471JG	2	300m	70	OC	800m	300m	AND	A	55n	TTL	2.0	80	0.0	5.0	380m	55	125	AD36	DL27
65	SN55472JG	2	300m	70	OC	800m	300m	NAND	A	65n	TTL	2.0	80	0.0	5.0	380m	55	125	AD37	DL27
66	SN55473JG	2	300m	70	OC	800m	300m	OR	A	55n	TTL	2.0	80	0.0	5.0	380m	55	125	AD38	DL27
67	SN55474JG	2	300m	70	OC	800m	300m	NOR	A	65n	TTL	2.0	80	0.0	5.0	425m	55	125	AD39	DL27
68	SN75471JG	2	300m	70	OC	700m	300m	AND	A	55n	TTL	2.0	80	0.0	5.0	380m	0	70	AD36	DL27
69	SN75471P	2	300m	70	OC	700m	300m	AND	A	55n	TTL	2.0	80	0.0	5.0	380m	0	70	AD36	DL28
70	SN75472JG	2	300m	70	OC	700m	300m	NAND	A	65n	TTL	2.0	80	0.0	5.0	380m	0	70	AD37	DL27
71	SN75472P	2	300m	70	OC	700m	300m	NAND	A	65n	TTL	2.0	80	0.0	5.0	380m	0	70	AD37	DL28
72	SN75473JG	2	300m																	

5. PERIPHERAL/POWER DRIVERS

IN ORDER OF: (1)CKTS/DEVICE (2)ABS. MAX Ion (3)ABS. MAX. COLLECTOR VOLT. &(4)TYPE NUMBER

LINE No.	TYPE NUMBER	CKTS. PER DEV.	OUTPUT TRANSIS.			MAX. OUTPUT VOLTAGE		OVER-ALL GATE FUNCT CODE	IN-PUT COMF	PROP. DELAY tpd (s)	T E C H N	INPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. OPER. PWR. DISS.		OPER. TEMP.		DRAWINGS	
			2 ABS. MAX. Ion (A)	3 AB MAX. VCE (V)	ON VOLT (V)	ON VOLT (V)	IC (A)					HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)	(-)	(+)	LOGIC DWG. No.	OUTLINE DWG. No.		
			(A)	(V)	(V)	(V)	(A)					(V)	(V)	(V)	(V)	(°C)	(°C)		Δ=MO		
1	SN75402ND	2	700m	35	OC	1.0	500m	NAND	A	65n	TTL	2.0	.80	0.0	5.0	380m	0	70	AD41	DL21	
2	SN75402NE	2	700m	35	OC	1.0	500m	NAND	A	65n	TTL	2.0	.80	0.0	5.0	380m	0	70	AD41	DL24	
3	SN75403ND	2	700m	35	OC	1.0	500m	OR	A	55n	TTL	2.0	.80	0.0	5.0	380m	0	70	AD42	DL21	
4	SN75403NE	2	700m	35	OC	1.0	500m	OR	A	55n	TTL	2.0	.80	0.0	5.0	380m	0	70	AD42	DL24	
5	SN75404ND	2	700m	35	OC	1.0	500m	NOR	A	65n	TTL	2.0	.80	0.0	5.0	425m	0	70	AD43	DL21	
6	SN75404NE	2	700m	35	OC	1.0	500m	NOR	A	65n	TTL	2.0	.80	0.0	5.0	425m	0	70	AD43	DL24	
7#	M54501Y	2	1.0	30	OE	750m	500m	AND	T	150nt	TTL	2.0	.80	0.0	5.0	1.1	0	75	AD46	CN5	
8	UHC060	2	1.0	50	OC	1.5	750m	INV	D	150nt	TTL	2.0	.80	0.0	5.0	500u	0	70	AD29	CN1	
9	UHD060	2	1.0	50	OC	1.5	750m	INV	D	150nt	TTL	2.0	.80	0.0	5.0	500u	0	70	AD29a	DL7	
10	UHP060	2	1.0	50	OC	1.5	750m	INV	D	150nt	TTL	2.0	.80	0.0	5.0	500u	0	70	AD29a	DL3	
11	831	2	1.0	60	AL	1.3	1.0	AND	T	200ns	TTL	1.8	.80	0.0	5.0	425m	55	125		MD16	
12#	MIC54131J	4	100m	15	OC	400m	100m	AND	T	35n	TTL	2.0	.80	0.0	5.0	375m	55	125	AD68	TO116	
13#	MIC54139J	4	100m	15	OC	400m	100m	OR	T	35n	TTL	2.0	.80	0.0	5.0	400m	55	125	AD69	TO116	
14#	MIC74131J	4	100m	15	OC	400m	100m	AND	T	35n	TTL	2.0	.80	0.0	5.0	375m	0	75	AD68	TO116	
15#	MIC74131N	4	100m	15	OC	400m	100m	AND	T	35n	TTL	2.0	.80	0.0	5.0	375m	0	75	AD68	TO116	
16#	MIC74139J	4	100m	15	OC	400m	100m	OR	T	35n	TTL	2.0	.80	0.0	5.0	400m	0	75	AD69	TO116	
17#	MIC74139N	4	100m	15	OC	400m	100m	OR	T	35n	TTL	2.0	.80	0.0	5.0	400m	0	75	AD69	TO116	
18#	MIC54130J	4	100m	30	OC	400m	100m	AND	T	35n	TTL	2.0	.80	0.0	5.0	375m	55	125	AD68	TO116	
19#	MIC54138J	4	100m	30	OC	400m	100m	OR	T	35n	TTL	2.0	.80	0.0	5.0	400m	55	125	AD69	TO116	
20#	MIC74130J	4	100m	30	OC	400m	100m	AND	T	35n	TTL	2.0	.80	0.0	5.0	375m	0	75	AD68	TO116	
21#	MIC74130N	4	100m	30	OC	400m	100m	AND	T	35n	TTL	2.0	.80	0.0	5.0	375m	0	75	AD68	TO116	
22#	MIC74138J	4	100m	30	OC	400m	100m	OR	T	35n	TTL	2.0	.80	0.0	5.0	400m	0	75	AD69	TO116	
23#	MIC74138N	4	100m	30	OC	400m	100m	OR	T	35n	TTL	2.0	.80	0.0	5.0	400m	0	75	AD69	TO116	
24#	M54503P	4	200m	30	OC	750m	500m	AND	T		TTL	2.0	.80	0.0	5.0	425m	0	75	AD48	TO116	
25#	MN204	4	300m	40	OC	200m	100m	AND	T			3.0†	.40†	0.0	6.0‡	300m	55	125	AD72	FP2e	
26#	MN304	4	300m	50	OC	500m	200m	AND	T			3.0†	.40†	0.0	6.0‡	300m	0	70	AD72	MD146	
27#	MN304H	4	300m	50	OC	500m	200m	AND	T			3.0†	.40†	0.0	6.0‡	300m	55	125	AD72	MD146	
28	UDN5703A	4	300m	80	OC	700m	300m	OR	X	750n	TTL	2.0	.80	0.0	5.0	500m	0	85	AD5	DL2	
29	UDN5706A	4	300m	80	OC	700m	300m	AND	X	750n	TTL	2.0	.80	0.0	5.0	490m	0	85	AD6	DL2	
30	UDN5707A	4	300m	80	OC	700m	300m	NAND	X	750n	TTL	2.0	.80	0.0	5.0	530m	0	85	AD7	DL2	
31	UDN5733A	4	300m	80	OC	700m	300m	NOR	X	750n	TTL	2.0	.80	0.0	5.0	500m	0	85	AD8	DL2	
32	UHC400	4	500m	40	OC	800m	250m	AND	A	750n	TTL	2.0	.80	0.0	5.0	530m	55	125	AD21	FP1	
33	UHC402	4	500m	40	OC	800m	250m	OR	A	750n	TTL	2.0	.80	0.0	5.0	530m	55	125	AD22	FP1	
34	UHC403	4	500m	40	OC	800m	250m	OR	A	750n	TTL	2.0	.80	0.0	5.0	530m	55	125	AD23	FP1	
35	UHC406	4	500m	40	OC	800m	250m	AND	A	750n	TTL	2.0	.80	0.0	5.0	530m	55	125	AD24	FP1	
36	UHC407	4	500m	40	OC	800m	250m	NAND	A	750n	TTL	2.0	.80	0.0	5.0	530m	55	125	AD25	FP1	
37	UHC408	4	500m	40	OC	800m	250m	NAND	A	750n	TTL	2.0	.80	0.0	5.0	530m	55	125	AD26	FP1	
38	UHC432	4	500m	40	OC	800m	250m	NOR	A	750n	TTL	2.0	.80	0.0	5.0	530m	55	125	AD27	FP1	
39	UHC433	4	500m	40	OC	800m	250m	NOR	A	750n	TTL	2.0	.80	0.0	5.0	530m	55	125	AD28	FP1	
40	UHD400	4	500m	40	OC	800m	250m	AND	A	750n	TTL	2.0	.80	0.0	5.0	530m	55	125	AD13	DL6	
41	UHD402	4	500m	40	OC	800m	250m	OR	A	750n	TTL	2.0	.80	0.0	5.0	530m	55	125	AD14	DL6	
42	UHD403	4	500m	40	OC	800m	250m	OR	A	750n	TTL	2.0	.80	0.0	5.0	530m	55	125	AD15	DL6	
43	UHD406	4	500m	40	OC	800m	250m	AND	A	750n	TTL	2.0	.80	0.0	5.0	530m	55	125	AD16	DL6	
44	UHD407	4	500m	40	OC	800m	250m	NAND	A	750n	TTL	2.0	.80	0.0	5.0	530m	55	125	AD17	DL6	
45	UHD408	4	500m	40	OC	800m	250m	NAND	A	750n	TTL	2.0	.80	0.0	5.0	530m	55	125	AD18	DL6	
46	UHD432	4	500m	40	OC	800m	250m	NOR	A	750n	TTL	2.0	.80	0.0	5.0	530m	55	125	AD19	DL6	
47	UHD433	4	500m	40	OC	800m	250m	NOR	A	750n	TTL	2.0	.80	0.0	5.0	530m	55	125	AD20	DL6	
48	UHP400	4	500m	40	OC	700m	250m	AND	A	750n	TTL	2.0	.80	0.0	5.0	490m	0	70	AD13	DL3	
49	UHP402	4	500m	40	OC	700m	250m	OR	A	750n	TTL	2.0	.80	0.0	5.0	500m	0	70	AD14	DL3	
50	UHP403	4	500m	40	OC	700m	250m	OR	A	750n	TTL	2.0	.80	0.0	5.0	500m	0	70	AD15	DL3	
51	UHP406	4	500m	40	OC	700m	250m	AND	A	750n	TTL	2.0	.80	0.0	5.0	500m	0	70	AD16	DL3	
52	UHP407	4	500m	40	OC	700m	250m	NAND	A	750n	TTL	2.0	.80	0.0	5.0	530m	0	70	AD17	DL3	
53	UHP408	4	500m	40	OC	700m	250m	NAND	A	750n	TTL	2.0	.80	0.0	5.0	530m	0	70	AD18	DL3	
54	UHP432	4	500m	40	OC	700m	250m	NOR	A	750n	TTL	2.0	.80	0.0	5.0	500m	0	70	AD19	DL3	
55	UHP433	4	500m	40	OC	700m	250m	NOR	A	750n	TTL	2.0	.80	0.0	5.0	500m	0	70	AD20	DL3	
56	UHC400-1	4	500m	70	OC	800m	250m	AND	A	750n	TTL	2.0	.80	0.0	5.0	530m	55	125	AD21	FP1	
57	UHC402-1	4	500m	70	OC	800m	250m	OR	A	750n	TTL	2.0	.80	0.0	5.0	530m	55	125	AD22	FP1	
58	UHC403-1	4	500m	70	OC	800m	250m	OR	A	750n	TTL	2.0	.80	0.0	5.0	530m	55	125	AD23	FP1	
59	UHC406-1	4	500m	70	OC	800m	250m	AND	A	750n	TTL	2.0	.80	0.0	5.0	530m	55	125	AD24	FP1	
60	UHC407-1	4	500m	70	OC	800m	250m	NAND	A	750n	TTL	2.0	.80	0.0	5.0	530m	55	125	AD25	FP1	
61	UHC408-1	4	500m	70	OC	800m	250m	NAND	A	750n	TTL	2.0	.80	0.0	5.0	530m	55	125	AD26	FP1	
62	UHC432-1	4	500m	70	OC	800m	250m	NOR	A	750n	TTL	2.0	.80	0.0	5.0	530m	55	125	AD27	FP1	
63	UHC433-1	4	500m	70	OC	800m	250m	NOR	A	750n	TTL	2.0	.80	0.0	5.0	530m	55	125	AD28	FP1	
64	UHD400-1	4	500m	70	OC	800m	250m	AND	A	750n	TTL	2.0	.80	0.0	5.0	530m	55	125	AD13	DL6	
65	UHD402-1	4	500m	70	OC	800m	250m	OR	A	750n	TTL	2.0	.80	0.0	5.0	530m	55	125	AD14	DL6	
66	UHD403-1	4	500m	70	OC	800m	250m	OR	A	750n	TTL	2.0	.80	0.0	5.0	530m	55	125	AD15	DL6	
67	UHD406-1	4	500m	70	OC	800m	250m	AND	A	750n	TTL	2.0	.80	0.0	5.0	530m	55	125	AD16	DL6	
68	UHD407-1	4	500m	70	OC	800m	250m	NAND	A	750n	TTL	2.0	.80	0.0	5.0	530m	55	125	AD17	DL6	
69	UHD408-1	4	500m	70	OC	800m	250m	NAND	A	750n	TTL	2.0	.80	0.0	5.0	530m	55	125	AD18	DL6	
70	UHD432-1	4	500m	70	OC	800m	250m	NOR	A	750n	TTL	2.0	.80	0.0	5.0	530m	55	125	AD19	DL6	
71	UHD433-1	4	500m	70	OC	800m	250m	NOR	A	750n	TTL	2.0	.80	0.0	5.0	530m	55	125	AD20	DL6	
72	UHP400-1	4	500m	70	OC	700m	250m	AND	A	750n	TTL	2.0	.80	0.0	5.0</						

6. DISPLAY DRIVERS

IN ORDER OF: (1) FUNCTIONAL CAPABILITY CODE
(2) READOUT (3) No. OUTPUT LINES & (4) TYPE No.

LINE No.	TYPE NUMBER	1 A-DRIVER B-DECODER C-LATCH D-COUNT	2 READOUT C-LCD L-LED G-GAS I-INC	3 OUTP CONN -ECT	OUTPUT CAPABILITY				MAX. PROP. DELAY tpd (s)	T E C H N	INPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS	
					No. LINES	MIN. CURRENT (A)	SINK @ V _o (V)	ABS. MAX. VOLT. (V)			HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)		(°C)	(°C)	LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO
1*	CD4054BD	A	C	DC	4	3.4m	1.5	20	500n	CMS	11	4.0	0.0	15	500m	55	125	AE67	Δ001AE
2*	CD4054BE	A	C	DC	4	3.4m	1.5	20	500n	CMS	11	4.0	0.0	15	500m	55	85	AE67	Δ001AC
3*	CD4054BF	A	C	DC	4	3.4m	1.5	20	500n	CMS	11	4.0	0.0	15	500m	55	125	AE67	Δ001AC
4*	CD4054BH	A	C	DC	4	3.4m	1.5	20	500n	CMS	11	4.0	0.0	15	500m	55	125	AE67	CH8o
5*	CD4054BK	A	C	DC	4	3.4m	1.5	20	500n	CMS	11	4.0	0.0	15	500m	55	125	AE67	Δ004AG
6*	SN75426J	A	G	DC	4	20m		95	1.2u		7.0	3.0	0.0	90	1.3	0	70	AE14	DL23
7	SN75426N	A	G	DC	4	20m		95	1.2u		7.0	3.0	0.0	90	1.3	0	70	AE14	DL24
8	SN75427J	A	G	DC	4	20m		95	1.2u		7.0	3.0	0.0	90	1.3	0	70	AE14	DL23
9	SN75427N	A	G	DC	4	20m		95	1.2u		7.0	3.0	0.0	90	1.3	0	70	AE14	DL24
10	UDN6144A	A	G	OE	4	20m	.80	120		TTL	105	-68%	0.0	110	82m	0	70	AE1	DL3
11*	I406	A	G	OC	5	10m		120		DTL			0.0	5.0	100m	0	70	AE82	PC
12	UHD490	A	G	EC	5	15m	5.0	80	5.0u	TTL	2.5	6.0	30			-55	125	AE3	DL6
13	UHP490	A	G	EC	5	15m	5.0	80	5.0u	TTL	2.5	6.0	30			0	85	AE3	DL3
14	DS7891J	A	G	EC	6	16m	-2.0	65		TTL		-2.0%	55	0.0	3.3m	55	125	AE66	DL16b
15	DS8891J	A	G	EC	6	16m	-2.0	65		TTL		-2.0%	55	0.0	3.3m	0	70	AE66	DL16b
16	DS8891N	A	G	EC	6	16m	-2.0	65		TTL		-2.0%	55	0.0	3.3m	0	70	AE66	DL54
17	SN75481N	A	G	OC	6	12m	3.5	25		TTL			55	0.0	1.3	0	70	AE9	DL26
18	UDN6164A	A	G	OE	6	20m	.80	120		TTL	105	-68%	0.0	110	82m	0	70	AE1a	DL4
19	UHD491	A	G	EC	6	15m	5.0	80	5.0u	TTL	2.5	6.0	30			-55	125	AE3a	DL2
20	UHP491	A	G	EC	6	15m	5.0	80	5.0u	TTL	2.5	6.0	30			0	85	AE3a	DL4
21	UHP495	A	G	EC	6	15m	5.0	80	7.0u	TTL		6.0	80			0	85	AE4	DL3
22*	MC3490P	A	G	EC	7	20m	2.5	60		DTL	-3.0†	-4.0†	50	0.0	830m	0	70	AE87	DL30
23*	MC3494P	A	G	EC	7	20m	2.5	60		DTL	-4.5	-2.5	50	0.0	830m	0	70	AE88	DL30
24*	XR2271CN	A	G	EC	7	20m	2.5	60		DTL	-1.2	-6.0	40	0.0	625m	0	75	AE79	DL7
25*	XR2271CP	A	G	EC	7	20m	2.5	60		DTL	-1.2	-6.0	40	0.0	625m	0	75	AE79	DL7
26	DS7887J	A	G	EC	8	16m	-1.4	65	5.0u	TTL	-2.0	-5.5	60	0.0	240m	55	125	AE59	DL57
27	DS7889J	A	G	EC	8	16m	-1.4	65	200n	TTL	-2.0	-5.5	60	0.0	240m	55	125	AE60	DL57
28	DS7897J	A	G	EC	8	16m	-1.4	65	5.0u	TTL	-2.0	-5.5	60	0.0	240m	55	125	AE61	DL57
29	DS8887J	A	G	EC	8	16m	-1.4	65	5.0u	TTL	-2.0	-5.5	60	0.0	240m	0	70	AE59	DL57
30	DS8887N	A	G	EC	8	16m	-1.4	65	5.0u	TTL	-2.0	-5.5	60	0.0	240m	0	70	AE59	DL58
31	DS8889J	A	G	OC	8	1.8m	50	85	200n	TTL			60	0.0	4.8m	0	70	AE60	DL57
32	DS8889N	A	G	OC	8	1.8m	50	85	200n	TTL			60	0.0	4.8m	0	70	AE60	DL58
33	DS8897J	A	G	EC	8	16m	-1.4	65	5.0u	TTL	-2.0	-5.5	60	0.0	4.8m	0	70	AE61	DL57
34	DS8897N	A	G	EC	8	16m	-1.4	65	5.0u	TTL	-2.0	-5.5	60	0.0	4.8m	0	70	AE61	DL58
35*	MC3491P	A	G	OC	8	400u	4.0	95		MOS	2.4†	1.5†	0.0	80	830m	0	70	AE27	DL42
36*	MC3492P	A	G	OC	8	1.3m	2.5	95		MOS	2.4†	1.5†	0.0	80	830m	0	70	AE27	DL42
37	UDN6184A	A	G	OE	8	20m	.80	120		TTL	105	-68%	0.0	110	82m	0	70	AE1b	DL5
38	UDN7183A	A	G	OE	8	10u	.50	120		TTL	-100	77%†	110	0.0	19m	0	70	AE2	DL5
39	UDN7184A	A	G	OE	8	10u	.50	120		TTL	-98	77%†	110	0.0	19m	0	70	AE2	DL5
40	UDN7186A	A	G	OE	8	10u	.50	120		TTL	-97	77%†	110	0.0	19m	0	70	AE2	DL5
41	UHP480	A	G	OC	8	2.0m	4.0	130	5.0u	TTL			0.0	130		0	85	AE5	DL3
42	UHP481	A	G	OC	8	2.0m	4.0	130	5.0u	TTL			0.0	130		0	85	AE5a	DL4
43	UHP482	A	G	OC	8	2.0m	4.0	130	5.0u	TTL			0.0	130		0	85	AE5b	DL5
44*	I313	A	G	OC	10	10m		80		DTL			0.0	5.0	240m			AE80	PC
45*	SW729-1F	A	I	OC	2	100m	.80	8.0		DTL	1.8†	1.2†	0.0	5.0	100m	55	125	AE74	FP5b
46*	SW729-1P	A	I	OC	2	100m	.80	8.0		DTL	1.8†	1.2†	0.0	5.0	100m	55	125	AE74	DL7d
47*	SW729-1S	A	I	OC	2	100m	.80	8.0		DTL	1.8†	1.2†	0.0	5.0	100m	55	125	AE74	CN
48*	SW729-1T	A	I	OC	2	100m	.80	8.0		DTL	1.8†	1.2†	0.0	5.0	100m	55	125	AE74	CN
49*	SW729-2F	A	I	OC	2	100m	.80	8.0		DTL	1.8†	1.2†	0.0	5.0	100m	0	75	AE74	FP5b
50*	SW729-2P	A	I	OC	2	100m	.80	8.0		DTL	1.8†	1.2†	0.0	5.0	100m	0	75	AE74	DL7d
51*	SW729-2S	A	I	OC	2	100m	.80	8.0		DTL	1.8†	1.2†	0.0	5.0	100m	0	75	AE74	CN
52*	SW729-2T	A	I	OC	2	100m	.80	8.0		DTL	1.8†	1.2†	0.0	5.0	100m	0	75	AE74	CN
53*	I401	A	I	OC	5	250m		32		DTL			0.0	5.0	250m	0	70	AE81	PC
54	9664ADC	A	I	OC	6	150m	1.2	20	300n†	TTL		1.5%	0.0	20	132m	0	70	AE16b	DL16c
55	9664APC	A	I	OC	6	150m	1.2	20	300n†	TTL		1.5%	0.0	20	132m	0	70	AE16b	DL68
56	9664ADC	A	I	OC	6	150m	1.2	10	300n†	TTL		1.5%	0.0	10	66m	0	70	AE16b	DL16c
57	9664PC	A	I	OC	6	150m	1.2	10	300n†	TTL		1.5%	0.0	10	66m	0	70	AE16b	DL68
58	75492ADC	A	I	OC	6	250m	1.2	20	300n†	TTL		1.5%	0.0	20	20m	0	70	AE16	DL16c
59	75492APC	A	I	OC	6	250m	1.2	20	300n†	TTL		1.5%	0.0	20	20m	0	70	AE16	DL68
60	75492DC	A	I	OC	6	250m	1.2	10	300n†	TTL		1.5%	0.0	10	10m	0	70	AE16	DL16c
61	75492PC	A	I	OC	6	250m	1.2	10	300n†	TTL		1.5%	0.0	10	10m	0	70	AE16	DL68
62	75491ADC	A	L	OC	4	50m	1.2	20	100n†	TTL		1.5%	0.0	20	20m	0	70	AE15	DL16c
63	75491APC	A	L	OC	4	50m	1.2	20	100n†	TTL		1.5%	0.0	20	20m	0	70	AE15	DL68
64	75491DC	A	L	OC	4	50m	1.2	10	100n†	TTL		1.5%	0.0	10	10m	0	70	AE15	DL16c
65	75491PC	A	L	OC	4	50m	1.2	10	100n†	TTL		1.5%	0.0	10	10m	0	70	AE15	DL68
66*	BD5030	A	L	OC	4	70m	.40	5.0	10u	RTL	1.0	.20	0.0	3.0	3.0u†	0	70	AE75	CH8ad
67*	BD5031	A	L	OC	4	70m	.40	5.0	10u	RTL	1.8	.50	0.0	3.0	21m	0	70	AE76	CH8ad
68	DS7895J	A	L	EC	4	12m	2.15	8.8	300n	TTL	6.5	1.3	0.0	5.0	40m†	55	125	AE63	DL17d
69	DS8650	A	L	OC	4	63m	.55	5.0		TTL			0.0	2.9		5	70	AE42	CH3
70	DS8650N	A	L	OC	4	63m	.55	5.0		TTL			0.0	2.9		5	70	AE42	DL22
71	DS8658	A	L	OC	4	84m	.55			TTL		.40%	0.0	2.9		5	70	AE42a	CH5
72	DS8658N	A	L	OC	4	84m	.55			TTL		.40%	0.0	2.9		5	70	AE42a	DL54
73	DS8895J	A	L	EC	4	12m	2.15	8.8	300n	TTL	6.5	1.3	0.0	5.0	40m†	0	70	AE63	DL17d
74	DS8895N	A	L	EC	4	12m	2.15	8.8	300n	TTL	6.5	1.3	0.0	5.0	40m†	0	70	AE63	DL56
75	DS75491J	A	L	OE	4	50m	1.5	10	100n†	TTL			0.0	7.5	7.5m	0	70	AE15	DL16b
76	DS75491N	A	L	OE	4	50m	1.5	10	100n†	TTL			0.0	7.5	7.5m	0	70	AE15	DL54
77	DS75493J	A	L	EC	4	8.0m	2.15	8.8	300n	TTL			0.0	8.8	13m	0	70	AE64	DL17d
78	DS75493N	A	L	EC	4	8.0m	2.15	8.8	300n	TTL			0.0	8.8	13m	0	70	AE64	DL56
79*	ITT491-5N	A	L	EC	4	50m	1.2	10	100n†	RTL	8.5†	.70†	0.0	10	800m	0	70	AE93	DL3c
80*	ITT501-5N	A	L	EC	4	50m	2.7	18		RTL	8.5†	.70†	0.0	15	800m	0	50	AE28a	DL3c
81	MC75491L	A	L																

6. DISPLAY DRIVERS

IN ORDER OF: (1) FUNCTIONAL CAPABILITY CODE
(2) READOUT (3) No. OUTPUT LINES & (4) TYPE No.

LINE No.	TYPE NUMBER	1 FUNCT		2 READOUT		3 OUTPUT CAPABILITY			MAX. PROP. DELAY tpd (s)	T E C H N	INPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO	
		A-DRIVER	B-DECODER	C-LCD	L-LED	OUTP CONN	MIN. CURRENT (A)	SINK @ Vo (V)			ABS. MAX. VOLT. (V)	HIGH (min) (V)	LOW (max) (V)	NEG. (V)		POS. (V)	(-)			(+)
		C-LATCH	D-COUNT	L-GAS	G-GAS	ECT	No. LINES													
1	DS8659N	A	L	L	OC	7	10m	55	10	TTL			0.0	2.7	40m	5	70	AE43	DL58	
2	DS8844N	A	L	L	OC	7	50m	1.5	8.0	TTL	4.5	.40	0.0	9.5	12m	0	75	AE47	DL56	
3	DS8856J	A	L	L	OC	7	6.4m	4.0	5.5	TTL	2.0	.80	0.0	5.0	65m	0	70	AE52	DL17d	
4	DS8856N	A	L	L	OC	7	6.4m	4.0	5.5	TTL	2.0	.80	0.0	5.0	65m	0	70	AE52	DL56	
5	DS8857J	A	L	L	EC	7	40m	2.3	5.5	TTL	2.0	.80	0.0	5.0	300m	0	70	AE52	DL17d	
6	DS8858J	A	L	L	EC	7	40m	2.3	5.5	TTL	2.0	.80	0.0	5.0	300m	0	70	AE52	DL17d	
7	DS8858N	A	L	L	EC	7	40m	2.3	5.5	TTL	2.0	.80	0.0	5.0	300m	0	70	AE52	DL56	
8	DS8866N	A	L	L	OC	7	50m	1.5	8.0	TTL	4.5	.40	0.0	9.5	12m	0	75	AE51	DL58	
9	DS8977N	A	L	L	OC	7	40m	50	8.0	TTL		50%	0.0	9.5	950u	0	70	AE51	DL58	
10▼	ITTS46A-5N	A	L	L	OC	7	40m	55	10	5.0u\$	9.8Δ	.55%	0.0	10	200m	0	70	AE51	DL4c	
11	SN75497N	A	L	L	OC	7	100m	1.5	6.7	TTL		50%	0.0	6.7	234m	0	70	AE12	DL26	
12	DS8863N	A	L	L	OC	8	500m	1.5	10	300nt			0.0	10	10m	0	70	AE16a	DL58	
13	DS8865N	A	L	L	OC	8	50m	1.5	8.0	TTL	4.5	.40	0.0	9.5	12m	0	75	AE50	DL58	
14	DS8867N	A	L	L	EC	8	10u	1.0	10	TTL	5.4Δ		0.0	6.0	900m	0	70	AE53	DL58	
15	DS8871N	A	L	L	OC	8	40m	50	8.0	TTL		50%	0.0	9.5	950u	0	70	AE50	DL58	
16	DS8963N	A	L	L	OC	8	500m	1.5	18	300nt			0.0	10	10m	0	70	AE16a	DL58	
17▼	ITTS08-5N	A	L	L	OC	8	40m	45	10	5.0u\$	10Δ	.45%	0.0	10	100m	0	70	AE90	DL5e	
18▼	ITTS09-5N	A	L	L	EC	8	3.0m	2.0	10	5.0u\$	10Δ	2.0%	0.0	10	100m	0	70	AE90b	DL3c	
19▼	ITTS14-5N	A	L	L	OC	8	40m	45	10	5.0u\$	10Δ	.45%	0.0	10	120m	0	70	AE90a	DL5e	
20	DS8855N	A	L	L	OC	9	50m	1.5	8.0	TTL	4.5	.40	0.0	9.5	12m	0	75	AE48	DL37	
21	DS8864N	A	L	L	OC	9	50m	1.5	8.0	TTL	4.5	.40	0.0	9.5	12m	0	75	AE49	DL37	
22	DS8872N	A	L	L	OC	9	40m	50	8.0	TTL		50%	0.0	9.5	950u	0	70	AE48	DL37	
23	DS8873N	A	L	L	OC	9	40m	50	8.0	TTL		50%	0.0	9.5	11m	0	70	AE49	DL37	
24	DS8874J	A	L	L	RP	9	50m	50	10	TTL	3.0	.80	0.0	9.5	85m	0	70	AE55a	DL6b	
25	DS8874N	A	L	L	RP	9	50m	50	10	TTL	3.0	.80	0.0	9.5	85m	0	70	AE55a	DL54	
26	DS8876J	A	L	L	OC	9	50m	50	10	TTL	3.0	.80	0.0	9.5	85m	0	70	AE55	DL16b	
27	DS8876N	A	L	L	OC	9	50m	50	10	TTL	3.0	.80	0.0	9.5	85m	0	70	AE55	DL54	
28	DS8879J	A	L	L	OC	9	50m	50	10	TTL	3.0	.80	0.0	9.5	85m	0	70	AE55	DL16b	
29	DS8879N	A	L	L	OC	9	50m	50	10	TTL	3.0	.80	0.0	9.5	85m	0	70	AE55	DL54	
30	DS8973N	A	L	L	OC	9	100m	50	10	TTL	3.9	.50	0.0	10	60m	0	70	AE49	DL37	
31	DS8974N	A	L	L	OC	9	100m	50	10	TTL	3.9	.50	0.0	10	60m	0	70	AE49	DL37	
32	DS8976N	A	L	L	OC	9	100m	50	10	TTL	3.9	.50	0.0	10	60m	0	70	AE49	DL37	
33▼	ITTS48-5N	A	L	L	OC	9	60m	.30	15	5.0u\$	5.0t	.30%	0.0	10	70m	0	70	AE92		
34▼	ITTS58-5N	A	L	L	OC	9	40m		10				0.0			0	70			
35	SN75498N	A	L	L	OC	9	100m	.40	7.0	250nt		.40%	0.0	5.0	25m	0	70	AE13	DL31	
36	DS7654N	A	L	T	EC	8					6.5	.50%	0.0	30	225m	55	125	AE44	DL58	
37	DS8654N	A	L	T	EC	8	50m	28					0.0	30	225m	0	70	AE44	DL58	
38▼	ITT74145J	AB			OC	10	80m		15	50n	2.0	.80	0.0	5.0	350m	0	70	AE26	DL4d	
39▼	ITT74145N	AB			OC	10	80m		15	50n	2.0	.80	0.0	5.0	350m	0	70	AE26	DL4c	
40♦	CD4055BD	AB	C	C	DC	7	3.4m	1.5	20	750n	CMS	11	4.0	0.0	15	500m	55	125	AE70	Δ001AE
41♦	CD4055BE	AB	C	C	DC	7	3.4m	1.5	20	750n	CMS	11	4.0	0.0	15	500m	40	85	AE70	Δ001AC
42♦	CD4055BF	AB	C	C	DC	7	3.4m	1.5	20	750n	CMS	11	4.0	0.0	15	500m	55	125	AE70	Δ001AC
43♦	CD4055BH	AB	C	C	DC	7	3.4m	1.5	20	750n	CMS	11	4.0	0.0	15	500m	55	125	AE70	CH8s
44♦	CD4055BK	AB	C	C	DC	7	3.4m	1.5	20	750n	CMS	11	4.0	0.0	15	500m	55	125	AE70	Δ004AG
45▼#	HBC4055AD	AB	C	C	DC	7	2.8m	50	30	600n	CMS	14.9	.01%	0.0	15	200m	55	125	AE70	DL17u
46▼#	HBC4055AF	AB	C	C	DC	7	2.8m	50	30	600n	CMS	14.9	.01%	0.0	15	200m	55	125	AE70	DL17u
47▼#	HBC4055AK	AB	C	C	DC	7	2.8m	50	30	600n	CMS	14.9	.01%	0.0	15	200m	55	125	AE70	FPZ
48▼#	HBF4055AE	AB	C	C	DC	7	2.8m	50	30	800n	CMS	14.9	.01%	0.0	15	200m	40	85	AE70	DL56b
49▼#	HBF4055AF	AB	C	C	DC	7	2.8m	50	30	800n	CMS	14.9	.01%	0.0	15	200m	40	85	AE70	DL17u
50▼#	DM8880B	AB	G	G	AH	7	5.0m	.40	110	10u	TTL	2.0	.80	0.0	5.0	600m	0	70	AE8	DL4a
51	DS7880J	AB	G	G		7	2.0m	2.5	80	10u	TTL	2.0	.80	0.0	5.0	215m	55	125	AE8	DL17d
52	DS7885J	AB	G	G	OC	7			80	10u	TTL	2.0	.80	0.0	5.0	155m	55	125	AE58	DL17d
53	DS8880J	AB	G	G		7	2.0m	2.5	80	10u	TTL	2.0	.80	0.0	5.0	215m	0	70	AE8	DL17d
54	DS8880N	AB	G	G		7	2.0m	2.5	80	10u	TTL	2.0	.80	0.0	5.0	215m	0	70	AE8	DL56
55	DS8885J	AB	G	G	OC	7			80	10u	TTL	2.0	.80	0.0	5.0	155m	0	70	AE58	DL17d
56	DS8885N	AB	G	G	OC	7			80	10u	TTL	2.0	.80	0.0	5.0	155m	0	70	AE58	DL56
57	SN75480N	AB	G	G	CC	7	8.0m	.40	50	10u	TTL	2.0	.80	0.0	5.0	180m	0	70	AE8	DL26
58	DS8884AN	AB	G	G	OC	9			80	10u	TTL	2.0	1.0	0.0	5.0	200m	0	70	AE57	DL58
59	DM5441AJ	AB	G	G	AL	10	7.0m	.40	70		TTL	2.0	.80	0.0	5.0	180m	55	125	AE40	DL17d
60	DM5441AW	AB	G	G	AL	10	7.0m	.40	70		TTL	2.0	.80	0.0	5.0	180m	55	125	AE40	FP7
61	DM7441AJ	AB	G	G	AL	10	7.0m	.40	70		TTL	2.0	.80	0.0	5.0	180m	0	70	AE40	DL17d
62	DM7441N	AB	G	G	AL	10	7.0m	.40	70		TTL	2.0	.80	0.0	5.0	180m	0	70	AE40	DL56
63	DM54141J	AB	G	G	OC	10	7.0m	2.5	60		TTL	2.0	.80	0.0	5.0	125m	55	125	AE23a	DL17d
64	DM54141W	AB	G	G	OC	10	7.0m	2.5	60		TTL	2.0	.80	0.0	5.0	125m	55	125	AE23a	FP7
65	DM74141J	AB	G	G	OC	10	7.0m	2.5	60		TTL	2.0	.80	0.0	5.0	125m	0	70	AE23a	DL17d
66	DM74141N	AB	G	G	OC	10	7.0m	2.5	60		TTL	2.0	.80	0.0	5.0	125m	0	70	AE23a	DL56
67	DM74141W	AB	G	G	OC	10	7.0m	2.5	60		TTL	2.0	.80	0.0	5.0	125m	0	70	AE23a	FP7
68▼#	FZL101	AB	G	G	OC	10	9.0m	2.5	65	280n	DTL	8.0	5.0	0.0	12	300m	0	70	AE72	DL96c
69▼#	FZL105	AB	G	G	OC	10	9.0m	2.5	65	280n	ECL	8.0	5.0	0.0	12	300m	25	85	AE72	DL96c
70▼	MC1045P	AB	G	G	OC	10	100u	.80	80		ECL	-1.0	-1.3	5.2	0.0	178m	0	75	AE86	DL30
71▼	MC1245F	AB	G	G	OC	10	100u	.80	80		ECL	-1.0	-1.3	5.2	0.0	178m	55	125	AE86	FP11
72▼	MC1245L	AB	G	G	OC	10	100u	.80	80		ECL	-1.0	-1.3	5.2	0.0	178m	55	125	AE86	DL116
73#	MIC5441AJ	AB	G	G	AL	10	7.0m	2.4	70		TTL	2.0	.80	0.0	5.0	210m	55	125	AE40	DL17n
74#	MIC7441AJ	AB	G	G	AL	10	7.0m	2.4	70		TTL	2.0	.80	0.0	5.0	210m	0	75	AE40	DL17n
75#	MIC7441AN	AB	G	G	AL	10	7.0m	2.4	70		TTL	2.0	.80	0.0	5.0	210m	0	75	AE40	DL96b
76▼#	MIC54141J	AB	G	G	OC	10	7.0m	.40	15		TTL	2.0	.80	0.0	5.0	80m	55	125	AE23b	DL4f
77▼#	MIC74141J	AB	G	G	OC	10	7.0m	.40	15		TTL	2.0	.80	0.0	5.0	80m	0	75	AE23b	DL4f
78▼#	MIC74141N	AB	G	G	OC	10	7.0m	.40	15		TTL	2.0</								

6. DISPLAY DRIVERS

IN ORDER OF: (1) FUNCTIONAL CAPABILITY CODE
(2) READOUT (3) No. OUTPUT LINES & (4) TYPE No.

LINE No.	TYPE NUMBER	1 FUNCT 2 A-DRIVER B-DECODER C-LATCH D-COUNT	READOUT		OUTPUT CAPABILITY					T E C H N	INPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS	
			L-LCD G-GAS I-INC	OUTP 3 CONN E-CT	No. LINES	MIN. CURRENT (A)	SINK @ Vo (V)	ABS. MAX. VOLT. (V)	PROP. DELAY tpd (s)		HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)		(-) (°C)	(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO
1#	JANM38510/01008CEB	AB		OC	7	8.0m	.40	7.0	144n	TTL	2.0	.80	0.0	5.5	418m	55	125	AE21	DL99
2#	JANM38510/01008CFA	AB		OC	7	8.0m	.40	7.0	144n	TTL	2.0	.80	0.0	5.5	418m	55	125	AE21	FP28
3#	JANM38510/01008CFB	AB		OC	7	8.0m	.40	7.0	144n	TTL	2.0	.80	0.0	5.5	418m	55	125	AE21	FP28
4#	JANM38510/01009BAA	AB		OC	7	10m	.40	7.0	144n	TTL	2.0	.80	0.0	5.5	258m	55	125	AE22	FP26
5#	JANM38510/01009BAB	AB		OC	7	10m	.40	7.0	144n	TTL	2.0	.80	0.0	5.5	258m	55	125	AE22	FP26
6#	JANM38510/01009BCA	AB		OC	7	10m	.40	7.0	144n	TTL	2.0	.80	0.0	5.5	258m	55	125	AE22	DL98
7#	JANM38510/01009BCB	AB		OC	7	10m	.40	7.0	144n	TTL	2.0	.80	0.0	5.5	258m	55	125	AE22	DL98
8#	JANM38510/01009CAA	AB		OC	7	10m	.40	7.0	144n	TTL	2.0	.80	0.0	5.5	258m	55	125	AE22	FP26
9#	JANM38510/01009CAB	AB		OC	7	10m	.40	7.0	144n	TTL	2.0	.80	0.0	5.5	258m	55	125	AE22	FP26
10#	JANM38510/01009CCA	AB		OC	7	10m	.40	7.0	144n	TTL	2.0	.80	0.0	5.5	258m	55	125	AE22	DL98
11#	JANM38510/01009CCB	AB		OC	7	10m	.40	7.0	144n	TTL	2.0	.80	0.0	5.5	258m	55	125	AE22	DL98
12#	M53247P	AB		AL	7	8.0m	.40	7.0	100n	TTL	2.4	.40%	0.0	5.0	450m	0	75	AE20	DL30a
13#	M53248P	AB		AH	7	8.0m	.40	7.0	100n	TTL	2.4	.40%	0.0	5.0	500m	0	75	AE21	DL30a
14#	M54405P	AB		AL	7	16m	.40	7.0	130n	TTL	2.0	.80	0.0	5.0	450m	0	75	AE30	DL30a
15#	M54406P	AB		AL	7	20m	.40	7.0	100n	TTL	2.4	.40%	0.0	5.0	450m	0	75	AE20	DL30a
16#	MIC5446AJ	AB		OC	7	40m	.40	30	100n	TTL	2.0	.80	0.0	5.0	425m	55	125	AE20	DL17n
17#	MIC5446J	AB		OC	7	20m	.40	30	100n	TTL	2.0	.80	0.0	5.0	380m	55	125	AE20	DL17n
18#	MIC5447AJ	AB		OC	7	40m	.40	15	100n	TTL	2.0	.80	0.0	5.0	425m	55	125	AE20	DL17n
19#	MIC5447J	AB		OC	7	20m	.40	15	100n	TTL	2.0	.80	0.0	5.0	380m	55	125	AE20	DL17n
20#	MIC5448J	AB		OC	7	6.4m	.40	5.5	100n	TTL	2.0	.80	0.0	5.0	380m	55	125	AE21	DL17n
21#	MIC7446AJ	AB		OC	7	40m	.40	30	100n	TTL	2.0	.80	0.0	5.0	515m	0	75	AE20	DL17n
22#	MIC7446AN	AB		OC	7	40m	.40	30	100n	TTL	2.0	.80	0.0	5.0	515m	0	75	AE20	DL96b
23#	MIC7446J	AB		OC	7	20m	.40	30	100n	TTL	2.0	.80	0.0	5.0	450m	0	75	AE20	DL17n
24#	MIC7446N	AB		OC	7	20m	.40	30	100n	TTL	2.0	.80	0.0	5.0	450m	0	75	AE20	DL96b
25#	MIC7447AJ	AB		OC	7	40m	.40	15	100n	TTL	2.0	.80	0.0	5.0	515m	0	75	AE20	DL17n
26#	MIC7447AN	AB		OC	7	40m	.40	15	100n	TTL	2.0	.80	0.0	5.0	515m	0	75	AE20	DL96b
27#	MIC7447J	AB		OC	7	20m	.40	15	100n	TTL	2.0	.80	0.0	5.0	450m	0	75	AE20	DL17n
28#	MIC7447N	AB		OC	7	20m	.40	15	100n	TTL	2.0	.80	0.0	5.0	450m	0	75	AE20	DL96b
29#	MIC7448J	AB		OC	7	6.4m	.40	5.5	100n	TTL	2.0	.80	0.0	5.0	450m	0	75	AE21	DL17n
30#	MIC7448N	AB		OC	7	6.4m	.40	5.5	100n	TTL	2.0	.80	0.0	5.0	450m	0	75	AE21	DL96b
31#	N7446AB	AB		OC	7	8.0m	.40		100n	TTL	2.0	.80	0.0	5.0	515m	0	70	AE20	DL4a
32	N7446AF	AB		OC	7	8.0m	.40		100n	TTL	2.0	.80	0.0	5.0	515m	0	70	AE20	DL17h
33	N7447AB	AB		OC	7	8.0m	.40		100n	TTL	2.0	.80	0.0	5.0	515m	0	70	AE20	DL4a
34	N7447AF	AB		OC	7	8.0m	.40		100n	TTL	2.0	.80	0.0	5.0	515m	0	70	AE20	DL17h
35	N7448B	AB		OC	7	6.4m	.40		100n	TTL	2.0	.80	0.0	5.0	450m	0	70	AE21	DL4a
36	N7448F	AB		OC	7	6.4m	.40		100n	TTL	2.0	.80	0.0	5.0	450m	0	70	AE21	DL17h
37	S5446AF	AB		OC	7	8.0m	.40		100n	TTL	2.0	.80	0.0	5.0	425m	55	125	AE20	DL17h
38	S5447AF	AB		OC	7	8.0m	.40		100n	TTL	2.0	.80	0.0	5.0	425m	55	125	AE20	DL17h
39	S5448F	AB		OC	7	6.4m	.40		100n	TTL	2.0	.80	0.0	5.0	380m	55	125	AE21	DL17h
40	SN54L46J	AB		OC	7	4.0m	.40	30	100n	TTL	2.0	.80	0.0	5.0	215m	55	125	AE20	DL25
41	SN74L46J	AB		OC	7	4.0m	.40	30	100n	TTL	2.0	.80	0.0	5.0	260m	0	70	AE20	DL25
42	SN74L46N	AB		OC	7	4.0m	.40	30	100n	TTL	2.0	.80	0.0	5.0	260m	0	70	AE20	DL26
43	SN5446AJ	AB		OC	7	8.0m	.40	30	100n	TTL	2.0	.80	0.0	5.0	425m	55	125	AE20	DL25
44	SN5446AW	AB		OC	7	8.0m	.40	30	100n	TTL	2.0	.80	0.0	5.0	425m	55	125	AE20	Δ004AG
45	SN5447AJ	AB		OC	7	8.0m	.40	15	100n	TTL	2.0	.80	0.0	5.0	425m	55	125	AE20	DL25
46	SN5447AW	AB		OC	7	8.0m	.40	15	100n	TTL	2.0	.80	0.0	5.0	425m	55	125	AE20	Δ004AG
47	SN7446AJ	AB		OC	7	8.0m	.40	30	100n	TTL	2.0	.80	0.0	5.0	515m	0	70	AE20	DL25
48	SN7446AN	AB		OC	7	8.0m	.40	30	100n	TTL	2.0	.80	0.0	5.0	515m	0	70	AE20	DL26
49	SN7447AJ	AB		OC	7	8.0m	.40	15	100n	TTL	2.0	.80	0.0	5.0	515m	0	70	AE20	DL25
50	SN7447AN	AB		OC	7	8.0m	.40	15	100n	TTL	2.0	.80	0.0	5.0	515m	0	70	AE20	DL25
51#	uPB7447C	AB		OC	7	8.0m	.40	30	100n	TTL	2.0	.80	0.0	5.0	515m	0	70	AE20	Δ001AC
52	5970	AB		AL	9	120m	.50	40		TTL	2.4	.80	0.0	5.25	393m	0	70		MD69
53	5990	AB		AL	9	120m	.50	40		TTL	2.4	.80	0.0	5.25	393m	0	70		MD72a
54	380AJ	AB		OC	10	30m	1.2	18	500n	DTL	6.5Δ	5.0*	0.0	15	570m	30	70	AE6	DL15
55	380AL	AB		OC	10	30m	1.2	18	500n	DTL	6.5Δ	5.0*	0.0	15	570m	30	70	AE6	DL17
56	380BL	AB		OC	10	30m	1.2	18	500n	DTL	6.5Δ	5.0*	0.0	12	360m	55	125	AE6	DL17
57	380CJ	AB		OC	10	30m	1.2	18	500n	DTL	6.5Δ	5.0*	0.0	12	360m	30	85	AE6	DL15
58	380CL	AB		OC	10	30m	1.2	18	500n	DTL	6.5Δ	5.0*	0.0	12	360m	30	85	AE6	DL17
59	380ML	AB		OC	10	30m	1.2	18	500n	DTL	6.5Δ	5.0*	0.0	15	570m	55	125	AE6	DL17
60	381AJ	AB		OC	10	20m	1.8	18	500n	DTL	6.5Δ	5.0*	0.0	15	570m	30	70	AE6	DL15
61	381AL	AB		OC	10	20m	1.8	18	500n	DTL	6.5Δ	5.0*	0.0	15	570m	30	70	AE6	DL17
62	381BL	AB		OC	10	16m	1.5	18	500n	DTL	6.5Δ	5.0*	0.0	12	360m	55	125	AA6	DL17
63	381CJ	AB		OC	10	16m	1.5	18	500n	DTL	6.5Δ	5.0*	0.0	12	360m	30	85	AE6	DL15
64	381CL	AB		OC	10	16m	1.5	18	500n	DTL	6.5Δ	5.0*	0.0	12	360m	30	85	AE6	DL17
65	381ML	AB		OC	10	20m	1.8	18	500n	DTL	6.5Δ	5.0*	0.0	15	570m	55	125	AE6	DL17
66#	FLL101-74141	AB		OC	10	7.0m	2.5	60		TTL	2.0	.80	0.0	5.0	125m	0	70	AE23	DL97
67#	JANM38510/01004BEA	AB		OC	10	20m	.40	30	73n	TTL	2.0	.80	0.0	5.5	341				

6. DISPLAY DRIVERS

IN ORDER OF: (1) FUNCTIONAL CAPABILITY CODE
(2) READOUT (3) No. OUTPUT LINES & (4) TYPE No.

LINE No.	TYPE NUMBER	1 FUNCT 2		READOUT		OUTPUT CAPABILITY				MAX. PROP. DELAY (s)	T E C H N	INPUT LOGIC LEVEL		RATED SUPPLY		MAX. OPERATE		OPER. TEMP.		DRAWINGS	
		A-DRIVER C-LATCH D-COUNT	B-DECODER	C-LCD L-LED G-GAS	L-LED G-GAS	OUTP. 3 CONN. No. LINES	MIN. CURRENT (A)	SINK CURRENT @ Vo (V)	ABS. MAX. VOLTS (V)			HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)	PWR. DISS. (W)	PWR. (-) (°C)	PWR. (+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No.	
		C-LATCH	D-COUNT	L-LED	G-GAS	No.	(A)	(V)	(V)			(min)	(max)	(V)	(V)	(W)	(-)	(°C)	(+)	No.	No.
1 #	M53245P	AB				OC	10	20m	.40	30	50n	TTL	2.0	.80	0.0	5.0	350m	0	75	AE26	DL30a
2 #	M53345P	AB				OC	10	20m	.40	7.0	50n	TTL	2.0	.80	0.0	5.0	350m	0	75	AE26	DL30a
3 #	MIC5445J	AB				OC	10	80m	.40	30	50n	TTL	2.0	.80	0.0	5.0	310m	55	125	AE26	DL17n
4 #	MIC7445J	AB				OC	10	80m	.40	30	50n	TTL	2.0	.80	0.0	5.0	350m	0	75	AE26	DL17n
5 #	MIC7445N	AB				OC	10	80m	.40	30	50n	TTL	2.0	.80	0.0	5.0	350m	0	75	AE26	DL96b
6 #	MIC54145J	AB				OC	10	80m	.40	15	50n	TTL	2.0	.80	0.0	5.0	310m	55	125	AE26	DL17n
7 #	MIC74145J	AB				OC	10	80m	.40	15	50n	TTL	2.0	.80	0.0	5.0	350m	0	75	AE26	DL17n
8 #	MIC74145N	AB				OC	10	80m	.40	15	50n	TTL	2.0	.80	0.0	5.0	350m	0	75	AE26	DL96b
9 #	N74LS145B	AB				OC	10	12m	.40	15	50n	TTL	2.0	.80	0.0	5.0	65m	0	70	AE26	DL4a
10	N74LS145F	AB				OC	10	12m	.40	15	50n	TTL	2.0	.80	0.0	5.0	65m	0	70	AE26	DL17h
11	N7445B	AB				OC	10	20m	.40	30	50n	TTL	2.0	.80	0.0	5.0	350m	0	70	AE26	DL4a
12	N7445F	AB				OC	10	20m	.40	30	50n	TTL	2.0	.80	0.0	5.0	350m	0	70	AE26	DL17h
13	N74145B	AB				OC	10	20m	.40	30	50n	TTL	2.0	.80	0.0	5.0	350m	0	70	AE26	DL4a
14	N74145F	AB				OC	10	20m	.40	30	50n	TTL	2.0	.80	0.0	5.0	350m	0	70	AE26	DL17h
15	S54LS145F	AB				OC	10	12m	.40	15	50n	TTL	2.0	.70	0.0	5.0	65m	55	125	AE26	DL17h
16	S54LS145W	AB				OC	10	12m	.40	15	50n	TTL	2.0	.70	0.0	5.0	65m	55	125	AE26	FP15
17	S5445F	AB				OC	10	20m	.40	30	50n	TTL	2.0	.80	0.0	5.0	310m	55	125	AE26	DL17h
18	S5445W	AB				OC	10	20m	.40	30	50n	TTL	2.0	.80	0.0	5.0	310m	55	125	AE26	FP15
19	S54145F	AB				OC	10	20m	.40	15	50n	TTL	2.0	.80	0.0	5.0	310m	55	125	AE26	DL17h
20	S54145W	AB				OC	10	20m	.40	15	50n	TTL	2.0	.80	0.0	5.0	310m	55	125	AE26	FP15
21 ▽	SN54LS145J	AB				OC	10	12m	.40	15	50n	TTL	2.0	.70	0.0	5.0	65m	55	125	AE26	DL25
22 ▽	SN54LS145W	AB				OC	10	12m	.40	15	50n	TTL	2.0	.70	0.0	5.0	65m	55	125	AE26	Δ004AG
23 ▽	SN74LS145J	AB				OC	10	80m	3.0	15	50n	TTL	2.0	.80	0.0	5.0	65m	0	70	AE26	DL25
24 ▽	SN74LS145N	AB				OC	10	80m	3.0	15	50n	TTL	2.0	.80	0.0	5.0	65m	0	70	AE26	DL26
25	SN5445J	AB				OC	10	20m	.40	30	50n	TTL	2.0	.80	0.0	5.0	310m	55	125	AE26	DL25
26	SN5445W	AB				OC	10	20m	.40	30	50n	TTL	2.0	.80	0.0	5.0	310m	55	125	AE26	Δ004AG
27	SN7445J	AB				OC	10	20m	.40	30	50n	TTL	2.0	.80	0.0	5.0	350m	0	70	AE26	DL25
28	SN7445N	AB				OC	10	20m	.40	30	50n	TTL	2.0	.80	0.0	5.0	350m	0	70	AE26	DL26
29	SN54145J	AB				OC	10	20m	.40	15	50n	TTL	2.0	.80	0.0	5.0	310m	55	125	AE26	DL25
30	SN54145W	AB				OC	10	20m	.40	15	50n	TTL	2.0	.80	0.0	5.0	310m	55	125	AE26	Δ004AG
31	SN74145J	AB				OC	10	20m	.40	15	50n	TTL	2.0	.80	0.0	5.0	350m	0	70	AE26	DL25
32	SN74145N	AB				OC	10	20m	.40	15	50n	TTL	2.0	.80	0.0	5.0	350m	0	70	AE26	DL26
33 #	PNB7445C	AB				OC	10	20m	.40	30	50n	TTL	2.0	.80	0.0	5.0	350m	0	70	AE26	Δ001AC
34	5916L	AB		IL	AH	7	30m	.40	.50	15	50n	TTL	2.4	.80	0.0	5.25	761m	0	70		MD69
35	DM5446AJ	AB		IL	OC	7	40m	.40	.40	30	100n	TTL	2.0	.80	0.0	5.0	425m	55	125	AE20	DL17d
36	DM5446AN	AB		IL	OC	7	40m	.40	.40	30	100n	TTL	2.0	.80	0.0	5.0	425m	55	125	AE20	DL56
37	DM5446AW	AB		IL	OC	7	40m	.40	.40	30	100n	TTL	2.0	.80	0.0	5.0	425m	55	125	AE20	FP7
38	DM5447AJ	AB		IL	OC	7	40m	.40	.40	15	100n	TTL	2.0	.80	0.0	5.0	425m	55	125	AE20	DL17d
39	DM5447AN	AB		IL	OC	7	40m	.40	.40	15	100n	TTL	2.0	.80	0.0	5.0	425m	55	125	AE20	DL56
40 ♦	DM5447AW	AB		IL	OC	7	40m	.40	.40	15	100n	TTL	2.0	.80	0.0	5.0	425m	55	125	AE20	FP7
41	DM5448J	AB		IL	RP	7	6.4m	.40	.40	5.5	100n	TTL	2.0	.80	0.0	5.0	380m	55	125	AE21	DL17d
42	DM5448N	AB		IL	OC	7	6.4m	.40	.40	5.5	100n	TTL	2.0	.80	0.0	5.0	380m	55	125	AE21	DL56
43	DM5448W	AB		IL	OC	7	6.4m	.40	.40	5.5	100n	TTL	2.0	.80	0.0	5.0	380m	55	125	AE21	FP7
44	DM7446AJ	AB		IL	OC	7	40m	.40	.40	30	100n	TTL	2.0	.80	0.0	5.0	515m	0	70	AE20	DL17d
45	DM7446AN	AB		IL	OC	7	40m	.40	.40	30	100n	TTL	2.0	.80	0.0	5.0	515m	0	70	AE20	DL56
46	DM7446AW	AB		IL	OC	7	40m	.40	.40	30	100n	TTL	2.0	.80	0.0	5.0	515m	0	70	AE20	FP7
47	DM7447AJ	AB		IL	OC	7	40m	.40	.40	15	100n	TTL	2.0	.80	0.0	5.0	515m	0	70	AE20	DL17d
48	DM7447AN	AB		IL	OC	7	40m	.40	.40	15	100n	TTL	2.0	.80	0.0	5.0	515m	0	70	AE20	DL56
49	DM7447AW	AB		IL	OC	7	40m	.40	.40	15	100n	TTL	2.0	.80	0.0	5.0	515m	0	70	AE20	FP7
50	DM7448J	AB		IL	RP	7	6.4m	.40	.40	5.5	100n	TTL	2.0	.80	0.0	5.0	450m	0	70	AE21	DL17d
51	DM7448N	AB		IL	OC	7	6.4m	.40	.40	5.5	100n	TTL	2.0	.80	0.0	5.0	450m	0	70	AE21	DL56
52	DM7448W	AB		IL	OC	7	6.4m	.40	.40	5.5	100n	TTL	2.0	.80	0.0	5.0	450m	0	70	AE21	FP7
53 ▽	8T04B	AB		L	OC	7	40m	.50	.50			TTL	2.0	.80	0.0	5.0	446m	0	70	AE95	DL4a
54 ▽	8T04F	AB		L	OC	7	40m	.50	.50			TTL	2.0	.80	0.0	5.0	446m	0	70	AE95	DL17h
55 ▽	8T04W	AB		L	OC	7	40m	.50	.50			TTL	2.0	.80	0.0	5.0	446m	0	70	AE95	FP15
56 ▽	8T05B	AB		L	RP	7	4.8m	.40	.40			TTL	2.0	.80	0.0	5.0	110m	0	70	AE96	DL4a
57 ▽	8T05F	AB		L	RP	7	4.8m	.40	.40			TTL	2.0	.80	0.0	5.0	110m	0	70	AE96	DL17h
58 ▽	8T05W	AB		L	RP	7	4.8m	.40	.40			TTL	2.0	.80	0.0	5.0	110m	0	70	AE96	FP15
59 ▽	8T06B	AB		L	OC	7	4.8m	.40	.40			TTL	2.0	.80	0.0	5.0	446m	0	70	AE95a	DL4a
60 ▽	8T06F	AB		L	OC	7	4.8m	.40	.40			TTL	2.0	.80	0.0	5.0	446m	0	70	AE95a	DL17h
61 ▽	8T06W	AB		L	OC	7	4.8m	.40	.40			TTL	2.0	.80	0.0	5.0	446m	0	70	AE95a	FP15
62 #	FZL111	AB		L	OC	7	20m	.70	.70	18		DTL	7.5	4.5	0.0	12	480m	0	70	AE73	DL96c
63 #	SN54L47J	AB		L	OC	7	20m	.40	.40	15	200n	TTL	2.0	.80	0.0	5.0	215m	55	125	AE20	DL25
64 ▽	SN54LS47J	AB		L	OC	7	12m	.40	.40	15	100n	TTL	2.0	.70	0.0	5.0	65m	55	125	AE20	DL25
65 ▽	SN54LS47W	AB		L	OC	7	12m	.40	.40	15	100n	TTL	2.0	.70	0.0	5.0	65m	55	125	AE20	Δ004AG
66 ▽	SN54LS48J	AB		L	RP	7	2.0m	.40	.40	5.5	100n	TTL	2.0	.70	0.0	5.0	190m	55	125	AE21	DL25
67 ▽	SN54LS48W	AB		L	RP	7	2.0m	.40	.40	5.5	100n	TTL	2.0	.70	0.0	5.0	190m	55	125	AE21	Δ004AG
68 ▽	SN54LS49J	AB		L	OC	7	4.0m	.40	.40	5.5	100n	TTL	2.0	.70	0.0	5.0	75m	55	125	AE22	DL23
69 ▽	SN54LS49W	AB		L	OC	7	4.0m	.40	.40	5.5	100n	TTL	2.0	.70	0.0	5.0	75m	55	125	AE22	Δ004AA
70 ▽	SN54LS247J	AB		L	OC	7	12m	.40	.40	15	100n	TTL	2.0	.70	0.0	5.0	65m	55	125	AE20	DL25
71 ▽	SN54LS247W	AB		L	OC	7	12m	.40	.40	15	100n	TTL	2.0	.70	0.0	5.0	65m	55	125	AE20	Δ004AG
72 ▽	SN54LS248J	AB		L	RP																

6. DISPLAY DRIVERS

IN ORDER OF: (1) FUNCTIONAL CAPABILITY CODE
(2) READOUT (3) No. OUTPUT LINES & (4) TYPE No.

LINE No.	TYPE NUMBER	1 A-DRIVER B-DECODER C-LATCH D-COUNT	2 READOUT C-LCD L-LED G-GAS I-INC	3 OUTP CONN No. LINES	4 OUTPUT CAPABILITY			T E C H N	INPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. OPERATE PWR. DISS.		OPER. TEMP.		DRAWINGS		
					MIN. CURRENT (A)	SINK @ V _o (V)	ABS. MAX. VOLT. (V)		MAX. PROP. DELAY tpd (s)	HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)	(-) (°C)	(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO		
																		3.4m	2.8m
1	CD4056BK	ABC	C	DC	7	3.4m	1.5	36	750n	CMS	11	4.0	0.0	15	500m	55	125	AE71	Δ004AG
2	HBC4056AD	ABC	C	DC	7	2.8m	.50	30	600n	CMS	14.9	.01%	0.0	15	200m	55	125	AE71	DL17u
3	HBC4056AF	ABC	C	DC	7	2.8m	.50	30	600n	CMS	14.9	.01%	0.0	15	200m	55	125	AE71	DL17u
4	HBC4056AK	ABC	C	DC	7	2.8m	.50	30	600n	CMS	14.9	.01%	0.0	15	200m	55	125	AE71	FP
5	HBF4056AE	ABC	C	DC	7	2.8m	.50	30	800n	CMS	14.9	.01%	0.0	15	200m	40	85	AE71	DL56b
6	HBF4056AF	ABC	C	DC	7	2.8m	.50	30	800n	CMS	14.9	.01%	0.0	15	200m	40	85	AE71	DL17u
7	MC14543BAL	ABC	C	DC	7	3.4m	1.5	18	1.6u	CMS	11	4.0	0.0	15	300u	55	125	AE18	DL17a
8	MC14543BCL	ABC	C	DC	7	3.0m	1.5	18	1.6u	CMS	11	4.0	0.0	15	1.2m	40	85	AE18	DL17a
9	MC14543BCP	ABC	C	DC	7	3.0m	1.5	18	1.6u	CMS	11	4.0	0.0	15	1.2m	40	85	AE18	DL30
10	MC14513BAL	ABC	CGIL	TP	8	3.0m	1.5	18	1.4u	CMS	11	4.0	0.0	15	300u	55	125	AE89	DL113
11	MC14513BCL	ABC	CGIL	TP	8	3.0m	1.5	18	1.4u	CMS	11	4.0	0.0	15	1.2m	40	85	AE89	DL113
12	MC14513BCP	ABC	CGIL	TP	8	3.0m	1.5	18	1.4u	CMS	11	4.0	0.0	15	1.2m	40	85	AE89	DL115
13	MC14511BAL	ABC	CLGI	EC	7	3.4m	1.5	18	1.4u	CMS	11	4.0	0.0	15	300u	55	125	AE17	DL17a
14	MC14511BCL	ABC	CLGI	EC	7	3.0m	1.5	18	1.4u	CMS	11	4.0	0.0	15	1.2m	40	85	AE17	DL17a
15	MC14511BCP	ABC	CLGI	EC	7	3.0m	1.5	18	1.4u	CMS	11	4.0	0.0	15	1.2m	40	85	AE17	DL30
16	DS8673J	ABC	L	AL	7	12m	3.0	10	140n	TTL	2.0	.80	0.0	5.0	250m	0	75	AE46	DL17d
17	DS8673N	ABC	L	AL	7	12m	3.0	10	140n	TTL	2.0	.80	0.0	5.0	250m	0	75	AE46	DL56
18	DS8674J	ABC	L	AL	7	12m	3.0	10	140n	TTL	2.0	.80	0.0	5.0	250m	0	75	AE46	DL17d
19	DS8674N	ABC	L	AL	7	12m	3.0	10	140n	TTL	2.0	.80	0.0	5.0	250m	0	75	AE46	DL56
20	HEF4511P	ABC	L	AH	7	2.0m	.50	15	15	CMS	7.0	3.0	0.0	10	400m	40	85	AE97	DL4g
21	SN74142J	ABCD	L	TP	11	8.0m	.40	7.0	55n	TTL	2.0	.80	0.0	5.0	510m	0	70	AE24	DL25
22	SN74142N	ABCD	G	TP	11	8.0m	.40	7.0	55n	TTL	2.0	.80	0.0	5.0	510m	0	70	AE24	DL26
23	5917L	ABD	IL	AH	7	30m	.50	15	15	TTL	2.4	.80	0.0	5.25	750m	0	70	MD69	MD70
24	5918L	ABD	IL	AH	7	30m	.50	15	15	TTL	2.4	.80	0.0	5.25	1.0	0	70	MD69	MD70
25	DS8655N	ABE	T	OC	12	40m	.50	6.0	100n	TTL	0.0	-15	0.0	10	560m	0	70	AE45	DL37
26	HBC4054AD	AC	C	DC	4	2.8m	.50	30	600n	CMS	14.9	.01%	0.0	15	200m	55	125	AE67	DL17u
27	HBC4054AF	AC	C	DC	4	2.8m	.50	30	600n	CMS	14.9	.01%	0.0	15	200m	55	125	AE67	DL17u
28	HBC4054AK	AC	C	DC	4	2.8m	.50	30	600n	CMS	14.9	.01%	0.0	15	200m	55	125	AE67	FP
29	HBF4054AE	AC	C	DC	4	2.8m	.50	30	800n	CMS	14.9	.01%	0.0	15	200m	40	85	AE67	DL56b
30	HBF4054AF	AC	C	DC	4	2.8m	.50	30	800n	CMS	14.9	.01%	0.0	15	200m	40	85	AE67	DL17u
31	BIP9501	AC	G	OC	10	3.5m	1.70	200	∅	TTL	0.0	-15	0.0	170	143m	0	55	AE77	MD121
32	BIP9502	AC	G	OC	13	8.0m	1.70	170	∅	TTL	0.0	-15	0.0	170	1.8	0	55	AE77a	MD121a
33	DS8859J	AC	L	OC	6	40m	2.0	5.5	150n	TTL	2.0	.80	0.0	5.0	250m	0	70	AE41	DL17d
34	DS8859N	AC	L	OC	6	40m	2.0	5.5	150n	TTL	2.0	.80	0.0	5.0	250m	0	70	AE41	DL56
35	DS8869J	AC	L	OC	6	40m	2.0	5.5	150n	TTL	2.0	.80	0.0	5.0	250m	0	70	AE41	DL17d
36	DS8869N	AC	L	OC	6	40m	2.0	5.5	150n	TTL	2.0	.80	0.0	5.0	250m	0	70	AE41	DL56
37	ZN1040E	ACD	GIL	AL	7	50m	.60	5.5	∅	TTL	2.0	.80	0.0	5.0	450m	20	70	AE69	DL36a
38	SN54143J	ACD	L	OC	12	11m	.40	7.0	90n	TTL	2.0	.80	0.0	5.0	465m	55	125	AE25	DL34
39	SN54143W	ACD	L	OC	12	11m	.40	7.0	90n	TTL	2.0	.80	0.0	5.0	465m	55	125	AE25	Δ019AA
40	SN74143J	ACD	L	OC	12	11m	.40	7.0	90n	TTL	2.0	.80	0.0	5.0	465m	0	70	AE25	DL34
41	SN74143N	ACD	L	OC	12	11m	.40	7.0	90n	TTL	2.0	.80	0.0	5.0	465m	0	70	AE25	DL35
42	SN54144J	ACD	LI	OC	12	11m	.40	7.0	90n	TTL	2.0	.80	0.0	5.0	465m	55	125	AE25	DL34
43	SN54144W	ACD	LI	OC	12	11m	.40	7.0	90n	TTL	2.0	.80	0.0	5.0	465m	55	125	AE25	Δ019AA
44	SN74144J	ACD	LI	OC	12	11m	.40	7.0	90n	TTL	2.0	.80	0.0	5.0	465m	0	70	AE25	DL34
45	SN74144N	ACD	LI	OC	12	11m	.40	7.0	90n	TTL	2.0	.80	0.0	5.0	465m	0	70	AE25	DL35
46	3020	AO	L	OC	3	100m	2.0	18	∅	DTL	2.0	.80	0.0	15	70m	25	85	AE83	DL
47	382AJ	B	G	OC	10	7.0m	2.5	70	∅	DTL	6.5Δ	5.0*	0.0	15	465m	30	70	AE6	DL15
48	382AL	B	G	OC	10	7.0m	2.5	70	∅	DTL	6.5Δ	5.0*	0.0	15	465m	30	70	AE6	DL17
49	382BL	B	G	OC	10	7.0m	2.5	18	∅	DTL	6.5Δ	5.0*	0.0	12	288m	55	125	AE7	DL17
50	382CJ	B	G	OC	10	7.0m	2.5	70	∅	DTL	6.5Δ	5.0*	0.0	12	288m	30	85	AE6	DL15
51	382CL	B	G	OC	10	7.0m	2.5	70	∅	DTL	6.5Δ	5.0*	0.0	12	288m	30	85	AE6	DL17
52	382ML	B	G	OC	10	7.0m	2.5	18	∅	DTL	6.5Δ	5.0*	0.0	15	465m	55	125	AE7	DL17
53	SN5448J	B	I	OC	7	6.4m	.40	7.0	100n	TTL	2.0	.80	0.0	5.0	380m	55	125	AE21	DL25
54	SN5448W	B	I	OC	7	6.4m	.40	7.0	100n	TTL	2.0	.80	0.0	5.0	380m	55	125	AE21	Δ004AG
55	SN5449W	B	I	OC	7	10m	.40	7.0	100n	TTL	2.0	.80	0.0	5.0	235m	55	125	AE22	Δ004AA
56	SN7448J	B	I	OC	7	6.4m	.40	7.0	100n	TTL	2.0	.80	0.0	5.0	450m	0	70	AE21	DL25
57	SN7448N	B	I	OC	7	6.4m	.40	7.0	100n	TTL	2.0	.80	0.0	5.0	450m	0	70	AE21	DL26
58	MC14558BAL	B	I	DC	8	3.4m	1.5	18	2.2u	CMS	11	4.0	0.0	15	300u	55	125	AE19	DL17a
59	MC14558BCL	B	I	DC	8	3.0m	1.5	18	2.2u	CMS	11	4.0	0.0	15	1.2m	40	85	AE19	DL17a
60	MC14558BCP	B	I	DC	8	3.0m	1.5	18	2.2u	CMS	11	4.0	0.0	15	1.2m	40	85	AE19	DL30
61	383AJ	B	L	OC	7	40m	1.2	18	∅	DTL	6.5Δ	5.0*	0.0	15	660m	30	70	AE7	DL15
62	383AL	B	L	OC	7	40m	1.2	18	∅	DTL	6.5Δ	5.0*	0.0	15	660m	30	70	AE7	DL17
63	383BL	B	L	OC	7	40m	1.2	18	∅	DTL	6.5Δ	5.0*	0.0	12	480m	55	125	AE7	DL17
64	383CJ	B	L	OC	7	40m	1.2	18	∅	DTL	6.5Δ	5.0*	0.0	12	480m	30	85	AE7	DL15
65	383CL	B	L	OC	7	40m	1.2	18	∅	DTL	6.5Δ	5.0*	0.0	12	480m	30	85	AE7	DL17
66	383ML	B	L	OC	7	40m	1.2	18	∅	DTL	6.5Δ	5.0*	0.0	15	660m	55	125	AE7	DL17
67	M004T1	BCF	G	OC	10				1.0u	MOS	3.5	.80	12	5.0	300m	0	70	AE68	DL94
68	M004T2	BCF	G	OC	10				1.0u	MOS	3.5	.80	12	5.0	300m	55	125	AE68	DL94

7. SWITCH DRIVERS

IN ORDER OF: (1)No. OF SWITCH CHANNELS
(2)MIN. I(SINK) (3)ABS.MAX.VOLT.&(4)TYPE No.

LINE No.	4	TYPE NUMBER	1	No. OF SW. CHAN.	OUTPUT			MAX. INPUT DRIVE CURR. (A)	MAX. tON (s)	MAX. tOFF (s)	FEATURES	T E C H N	INPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS		
					2	MIN. SINK @ Vo (V)	3						ABS. MAX. VOLT. (V)	HIGH (min) (V)	LOW (max) (V)	NEG. (V)		POS. (V)	(-) (°C)	(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO
1	4	ATF466#1	1		6.0m	12	15	5.8m	10n	10n	MW PIN	HYB	3.5f		12	12	350m	55	125	AF10	FP30	
2	4	ATF466#2	1		6.0m	12	15	14m	10n	10n	MW PIN	HYB	3.5f		12	5.0	200m	55	125	AF10	FP30	
3	4	ATF466A	1		7.0m		15	4.5m	10n	10n	MW PIN	HYB	2.4	80	12	5.0	260m	55	125	AF9	FP2b	
4	4	ATF467A	1		8.0m		18	4.6m	10n	10n	MW PIN	HYB	3.0	40	12	12	250m	55	125	AF11	FP31	
5	4	DHO035CG	1		100m	-7.0	30		15n	30n	MW PIN	HYB	1.5	40	10	10	1.5	0	85	AF17	CN10	
6	4	DHO035G	1		100m	-7.0	30		15n	30n	MW PIN	HYB	1.5	40	10	10	1.5	55	125	AF17	CN10	
7	4	D112CDD	2		1.0m	-19	33	1.5m	250n	1.5u		HYB	4.1f	40f	20	10	750m	0	70	AF7	DL74	
8	4	D112CFD	2		1.0m	-19	33	1.5m	250n	1.5u		HYB	4.1f	40f	20	10	750m	0	70	AF7	FP32	
9	4	D112IDD	2		1.0m	-19	33	1.5m	250n	1.5u		HYB	4.1f	40f	20	10	750m	20	85	AF7	DL74	
10	4	D112IFD	2		1.0m	-19	33	1.5m	250n	1.5u		HYB	4.1f	40f	20	10	750m	20	85	AF7	FP32	
11	4	D112MDD	2		1.0m	-19	33	1.5m	250n	1.5u		HYB	4.1f	40	20	10	750m	55	125	AF7	DL74	
12	4	D112MFD	2		1.0m	-19	33	1.5m	250n	1.5u		HYB	4.1f	40	20	10	750m	55	125	AF7	FP32	
13	4	D113CDD	2		1.0m	-19	33	1.0m	250n	1.5u		HYB	1.0f	40f	20	10	750m	0	70	AF8	DL74	
14	4	D113CFD	2		1.0m	-19	33	1.0m	250n	1.5u		HYB	1.0f	40f	20	10	750m	0	70	AF8	FP32	
15	4	D113IDD	2		1.0m	-19	33	1.0m	250n	1.5u		HYB	1.0f	40f	20	10	750m	20	85	AF8	DL74	
16	4	D113IFD	2		1.0m	-19	33	1.0m	250n	1.5u		HYB	1.0f	40f	20	10	750m	20	85	AF8	FP32	
17	4	D113MDD	2		1.0m	-19	33	1.0m	250n	1.5u		HYB	1.0f	40f	20	10	750m	55	125	AF8	DL74	
18	4	D113MFD	2		1.0m	-19	33	1.0m	250n	1.5u		HYB	1.0f	40f	20	10	750m	55	125	AF8	FP32	
19	4	D120CDD	2		1.0m	-19	33	1.5m	250n	600n		HYB	4.1f	40f	20	10	750m	0	70	AF7	DL74	
20	4	D120CFD	2		1.0m	-19	33	1.5m	250n	600n		HYB	4.1f	40f	20	10	750m	0	70	AF7	FP32	
21	4	D120IDD	2		1.0m	-19	33	1.5m	250n	600n		HYB	4.1f	40f	20	10	750m	20	85	AF7	DL74	
22	4	D120IFD	2		1.0m	-19	33	1.5m	250n	600n		HYB	4.1f	40f	20	10	750m	20	85	AF7	FP32	
23	4	D120MDD	2		1.0m	-19	33	1.5m	250n	600n		HYB	4.1f	40f	20	10	750m	55	125	AF7	DL74	
24	4	D120MFD	2		1.0m	-19	33	1.5m	250n	600n		HYB	4.1f	40f	20	10	750m	55	125	AF7	FP32	
25	4	D121CDD	2		1.0m	-19	33	1.0m	250n	600n		HYB	1.0f	40f	20	10	750m	0	70	AF8	DL74	
26	4	D121CFD	2		1.0m	-19	33	1.0m	250n	600n		HYB	1.0f	40f	20	10	750m	0	70	AF8	FP32	
27	4	D121IDD	2		1.0m	-19	33	1.0m	250n	600n		HYB	1.0f	40f	20	10	750m	20	85	AF8	DL74	
28	4	D121IFD	2		1.0m	-19	33	1.0m	250n	600n		HYB	1.0f	40f	20	10	750m	20	85	AF8	FP32	
29	4	D121MDD	2		1.0m	-19	33	1.0m	250n	600n		HYB	1.0f	40f	20	10	750m	55	125	AF8	DL74	
30	4	D121MFD	2		1.0m	-19	33	1.0m	250n	600n		HYB	1.0f	40f	20	10	750m	55	125	AF8	FP32	
31	4	D139AL	2		2.0m	1.5	30	500u	170n	200n			5.0f	0.0f	20	10	750m	55	125	AF16	FP5a	
32	4	D139AP	2		2.0m	1.5	30	500u	170n	200n			5.0f	0.0f	20	10	825m	55	125	AF16a	DL6a	
33	4	D139BL	2		2.0m	1.5	30	500u	170n	200n			5.0f	0.0f	20	10	750m	20	85	AF16	FP5a	
34	4	D139BP	2		2.0m	1.5	30	500u	170n	200n			5.0f	0.0f	20	10	825m	20	85	AF16a	DL6a	
35	4	D139CJ	2		2.0m	1.5	30	500u	170n	200n			5.0f	0.0f	20	10	470m	0	70	AF16a	DL54a	
36	4	D130AA	2		30m		30	1.0m	180n	270n			2.0	80	20	10	450m	55	125	AF14	CN4a	
37	4	D130AL	2		30m		30	1.0m	180n	270n			2.0	80	20	10	750m	55	125	AF14a	FP5a	
38	4	D130BA	2		30m		30	1.0m	300n	300n			2.0	80	20	10	450m	20	85	AF14	CN4a	
39	4	D130BL	2		30m		30	1.0m	300n	300n			2.0	80	20	10	750m	20	85	AF14a	FP5a	
40	4	ATF468	2		500m	12		4.0m	20u	20u	MW PIN	HYB	4.3	1.0f	12	12	700m	55	125	AF12	FP13c	
41	4	SP751AF	3		10m		7.0		30n	35n		TTL	-2.7	-80	0.0	30	160m	0	70	AA58	FP8	
42	4	SP751BF	3		10m		7.0		30n	35n		TTL	-2.7	-80	0.0	20	80m	0	70	AA58	FP8	
43	4	SP701BT	3		10m		20		30n	35n		TTL	-2.7	-80	0.0	20	80m	0	70	AA56	CN8	
44	4	SP701AT	3		10m		20		30n	35n		TTL	-2.7	-80	0.0	30	160m	0	70	AA56	CN8	
45	4	SP703AE	3		10m		30		30n	35n		TTL	-2.7	-80	0.0	30	135m	0	70	AF4	DL59	
46	4	SP703AF	3		10m		30		30n	35n		TTL	-2.7	-80	0.0	30	135m	0	70	AF4	FP9	
47	4	SP703BE	3		10m		30		30n	35n		TTL	-2.7	-80	0.0	20	55m	0	70	AF4	DL59	
48	4	SP703BF	3		10m		30		30n	35n		TTL	-2.7	-80	0.0	20	55m	0	70	AF4	FP9	
49	4	SP704AE	3		10m		30	1.0m	30n	35n		TTL	-2.7	-80	0.0	30	135m	0	70	AF5	DL59	
50	4	SP704AF	3		10m		30	1.0m	30n	35n		TTL	-2.7	-80	0.0	30	135m	0	70	AF5	FP9	
51	4	SP704BE	3		10m		30	1.0m	30n	35n		TTL	-2.7	-80	0.0	20	55m	0	70	AF5	DL59	
52	4	SP704BF	3		10m		30	1.0m	30n	35n		TTL	-2.7	-80	0.0	20	55m	0	70	AF5	FP9	
53	4	D129AL	4		10m	-19	50	200u	250n	1.0u	Decoder		5.0f	.70f	20	0.0	750m	55	125	AF13	FP5a	
54	4	D129AP	4		10m	-19	50	200u	250n	1.0u	Decoder		5.0f	.70f	20	0.0	825m	55	125	AF13a	DL6a	
55	4	D129BL	4		10m	-19	50	200u	300n	1.5u	Decoder		5.0f	.70f	20	0.0	750m	20	85	AF13	FP5a	
56	4	D129BP	4		10m	-19	50	200u	300n	1.5u	Decoder		5.0f	.70f	20	0.0	825m	20	85	AF13a	DL6a	
57	4	D129IDD	4		10m	-19	50	3.3m	300n	1.5u	Decoder	MOS	5.0f	0.0f	20	5.0	750m	20	85	AF13a	DL73	
58	4	D129IFD	4		10m	-19	50	3.3m	300n	1.5u	Decoder	MOS	5.0f	0.0f	20	5.0	750m	20	85	AF13	FP12	
59	4	D129MDD	4		10m	-19	50	3.0m	250n	1.0u	Decoder	MOS	5.0f	0.0f	20	5.0	750m	55	125	AF13a	DL73	
60	4	D129MFD	4		10m	-19	50	3.0m	250n	1.0u	Decoder	MOS	5.0f	0.0f	20	5.0	750m	55	125	AF13a	FP12	
61	4	D132AL	4		10m	-70	50	200u	250n	1.5u	Decoder		2.2	.70	0.0	5.0	750m	55	125	AF15	FP5a	
62	4	D132AP	4		10m	-70	50	200u	250n	1.5u	Decoder		2.2	.70	0.0	5.0	825m	55	125	AF15a	DL6a	

10. A/D CONVERTERS

IN ORDER OF: (1)RESOLUTION (2)MAX.LIN. ERROR (3)MAX.CONVERSION TIME & (4)TYPE NUMBER

LINE No.	4	TYPE NUMBER	1 RESOLUT ION bits	TYPE CONV -ERT	OUTPUT ARITH. CODE OPTIONS	2 MAX FSR LINEAR ERROR (%)	3 MAX CONV. TIME (s)	MAX GAIN TEMP. DRIFT (ppm/°C)	INPUT		MIN. OUTPUT DRIVE CURR. (A)	OUTPUT LEVEL		RATED PWR. SUPPLY SPAN		MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS		
									P-P	V-VOLT A-AMP		HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)		(-) (°C)	(+) (°C)	LOGIC DWG No.	OUTLINE DWG No. Δ=MO	
1▼	ADC-HU3BGC	3	T	AC	200m	20n	5.0	5.0	VB		2.4	40	5.0	5.0						MD57	
2▼	ADC-HU3BMC	3	T	AC	200m	20n	5.0	5.0	VB		2.4	40	5.0	5.0			0	70		MD10b	
3▼	ADC-HU3BMM	3	T	AC	200m	20n	5.0	5.0	VB		2.4	40	5.0	5.0			55	125		MD10b	
4▼	ADC-HU3BMR	3	T	AC	200m	20n	5.0	5.0	VB		2.4	40	5.0	5.0			25	85		MD10b	
5	ADC-SH4B	4	A	B	750u	400n	200	937m	VU	6T	2.4	.50	15	15	1.7		0	70	BA25	MD31	
6▲	NADC-1	4	A	A	3.0m	65nt	500u	5.0	VU				15	15	7.0	†	55	85			
7▲	NADC-3	4	A	A	3.0m	65nt	500u	5.0	VU				15	15	7.0	†	55	70			
8	ADC-UH4B2	4	T	A	3.0	40n	50	2.5	VB	4T	2.4	40	15	15	5.5		0	70	BA27	MD32c	
9	ADC-UH4B	4		B	3.0	40n	50	2.5	VB	4T	2.4	40	15	15	5.5		0	70	BA27	MD32a	
10	ADC-VH4B2	4		C	3.0	100n	50	2.5	VB	4T	2.4	40	15	15	5.5		0	70	BA27	MD32a	
11	ADC-VH4B	4		B	3.0	100n	50	2.5	VU	4T	2.4	40	15	15	5.5		0	70	BA27	MD32a	
12	A857-4	4	S	D	3.0	400n	50	20	VB	2T	2.0	40	15	15	1.4		25	85	BA41	MD86	
13	A857-H4B1A	4	S	A	3.0	400n	100	5.0	VU	2T	2.0	40	15	15	1.4		25	85	BA41	MD87	
14	A857-H4B2A	4	S	A	3.0	400n	100	10	VU	2T	2.0	40	15	15	1.4		25	85	BA41	MD87	
15	A857-H4B3B	4	S	C	3.0	400n	100	10	VB	2T	2.0	40	15	15	1.4		25	85	BA41	MD87	
16	A857-H4B3C	4	S	G	3.0	400n	100	10	VB	2T	2.0	40	15	15	1.4		25	85	BA41	MD87	
17	A857-H4B4B	4	S	C	3.0	400n	100	20	VB	2T	2.0	40	15	15	1.4		25	85	BA41	MD87	
18	A857-H4B4C	4	S	G	3.0	400n	100	20	VB	2T	2.0	40	15	15	1.4		25	85	BA41	MD87	
19	A857-H4B5A	4	S	A	3.0	400n	100	5.0	VU	2T	2.0	40	15	15	1.4		25	85	BA41	MD87	
20	A857-H4B6A	4	S	A	3.0	400n	100	10	VU	2T	2.0	40	15	15	1.4		25	85	BA41	MD87	
21	ADC-H6B1A	6	S	A	750m	100n	20	5.0	VU	6T	2.4	40	15	15	3.3		0	70	BA24	MD27	
22	ADC-H6B2A	6	S	A	750m	100n	20	10	VU	6T	2.4	40	15	15	3.3		0	70	BA24	MD27	
23	ADC-H6B3B	6	S	C	750m	100n	20	10	VB	6T	2.4	40	15	15	3.3		0	70	BA24	MD27	
24	ADC-H6B3C	6	S	G	750m	100n	20	10	VB	6T	2.4	40	15	15	3.3		0	70	BA24	MD27	
25	ADC-H6B4B	6	S	C	750m	100n	20	20	VB	6T	2.4	40	15	15	3.3		0	70	BA24	MD27	
26	ADC-H6B4C	6	S	G	750m	100n	20	20	VB	6T	2.4	40	15	15	3.3		0	70	BA24	MD27	
27	ADC-UH6B2	6	T	C	750m	100n	50	2.5	VB	4T	2.4	40	15	15	9.0		0	70	BA26a	MD32b	
28	ADC-UH6B	6	T	B	750m	100n	50	2.5	VU	4T	2.4	40	15	15	9.0		0	70	BA26a	MD32	
29	ADC-VH6B2	6	T	C	750m	200n	50	2.5	VB	4T	2.4	40	15	15	9.0		0	70	BA26a	MD32b	
30	ADC-VH6B	6	T	B	750m	200n	50	2.5	VU	4T	2.4	40	15	15	9.0		0	70	BA26a	MD32	
31	ADC-ECONVERTER	6	S	CM	A	750m	50u	100	10	VBU	6T	2.4	40	15	15	700m	0	70	BA16	MD29	
32▼	MN5110	8	S	H;16s	43m	20u	1.6	\$	10	VB	2T	2.4	40	15	15	965m	0	70	BA90	MD102b	
33	ADC-ER8D	8	D	J	43m	35	4.0		VB				0.0	5.0	1.2		0	70	BA20	MD9n	
34	ADC-ER8B	8	D	H	76m	35	2.0		VB				0.0	5.0	1.2		0	70	BA20	MD9g	
35	ADC-L8D1A2	8	S	E	52m	12u	10	5.0	VU	6T	2.4	.80	15	15	2.7		0	70	BA22a	MD30	
36	ADC-L8D1B2	8	S	E	52m	12u	10	5.0	VU	6T	2.4	.80	15	15	2.7		0	70	BA22a	MD30	
37	ADC-L8D2A2	8	S	E	52m	12u	10	5.0	VU	6T	2.4	.80	15	15	2.5		0	70	BA22	MD30	
38	ADC-L8D2B2	8	S	E	52m	12u	10	5.0	VU	6T	2.4	.80	15	15	2.5		0	70	BA22	MD30	
39▼	4110	8	T	AC	100m	32u	100		VBU	2T	2.4	.40	15	15	1.8		0	70	BA93	MD149	
40▲	VADC-A	8	A	A	200m		5.0		VU				15	15	20	†	0	50	BA105	PC9	
41▲	VADC-B	8	A	A	200m		5.0		VU				15	15	20	†	0	50	BA105	PC9	
42▼	ADC-TV8B	8	T	AC	200m	50n	60	10	VB		-85	-1.5	15	15			0	70	PC9	MD27b	
43▼	A8503	8	S	AC	200m	66n	50	2.0	VBU				15	15			0	60		MD27b	
44	ADC-G8B1A	8	S	A	200m	100n	50	5.0	VU	6T	2.4	40	15	15	3.1		0	70	BA21	MD27b	
45	ADC-G8B2A	8	S	A	200m	100n	50	10	VU	6T	2.4	40	15	15	3.1		0	70	BA21	MD27b	
46	ADC-G8B3B	8	S	C	200m	100n	50	10	VB	6T	2.4	40	15	15	3.1		0	70	BA21	MD27b	
47	ADC-G8B3C	8	S	G	200m	100n	50	5.0	VB	6T	2.4	40	15	15	3.1		0	70	BA21	MD27b	
48	ADC-G8B4B	8	S	C	200m	100n	50	20	VB	6T	2.4	40	15	15	3.1		0	70	BA21	MD27b	
49	ADC-G8B4C	8	S	G	200m	100n	50	20	VB	6T	2.4	40	15	15	3.1		0	70	BA21	MD27b	
50▼	4130-10	8	S	I	200m	750n	20	5.0	VU	8T	2.4	.50	15	15	2.4		0	70	BA95	MD124a	
51▼	4130-20	8	S	I	200m	750n	20	10	VU	8T	2.4	.50	15	15	2.4		0	70	BA95	MD124a	
52▼	4130-30	8	S	CGs	200m	750n	20	10	VB	8T	2.4	.50	15	15	2.4		0	70	BA95	MD124a	
53▼	4130-40	8	S	CGs	200m	750n	20	20	VB	8T	2.4	.50	15	15	2.4		0	70	BA95	MD124a	
54	A857-8	8	S	D	200m	800n	50	20	VB	2T	2.0	40	15	15	1.4		25	85	BA41	MD86	
55	A857-H8B1A	8	S	A	200m	800n	100	5.0	VU	2T	2.0	40	15	15	1.4		25	85	BA41	MD87	
56	A857-H8B2A	8	S	A	200m	800n	100	10	VU	2T	2.0	40	15	15	1.4		25	85	BA41	MD87	
57	A857-H8B3B	8	S	C	200m	800n	100	10	VB	2T	2.0	40	15	15	1.4		25	85	BA41	MD87	
58	A857-H8B3C	8	S	G	200m	800n	100	10	VB	2T	2.0	40	15	15	1.4		25	85	BA41	MD87	
59	A857-H8B4B	8	S	C	200m	800n	100	20	VB	2T	2.0	40	15	15	1.4		25	85	BA41	MD87	
60	A857-H8B4C	8	S	G	200m	800n	100	20	VB	2T	2.0	40	15	15	1.4		25	85	BA41	MD87	
61	A857-H8B5A	8	S	A	200m	800n	100	5.0	VU	2T	2.0	40	15	15	1.4		25	85	BA41	MD87	
62	A857-H8B6A	8	S	A	200m	800n	100	10	VU	2T	2.0	40	15	15	1.4		25	85	BA41	MD87	
63▼	ADC592-8	8	S	AC	200m	800n	20	\$	10	VBU	4T	2.5	40	15	15	2.4		0	70	BA80	MD137
64▼	ADC60-08-USB	8	S	ACG	200m	880u	40	10	VB	6T	2.4	.40	15	15	3.7		0	70	BA4	MD9b	
65▼	MN5101	8	S	BIO	200m	900n	400m	\$	20	VBU	5T	2.4	40	15	15	1.5		0	70	BA86	MD19d
66▼	MN5101H	8	S	BIO	200m	900n	400m	\$	20	VBU	5T	2.4	40	15	15	1.5		55	125	BA86	MD19d
67▼	ADC591-8	8	S	AC	200m	1.0u	20	\$	10	VBU	4T	2.5	.50	15	15	2.4		0	70	BA80	MD137
68▼	ADC1103-001	8	S	ACG	200m	1.0u	10	†	10	VB	5T	2.4	40	15	15	5.1		0	70	BA63b	MD113a
69▼	ADH-8512-8-1	8	S	AC	200m	1.0u	30	20	VBU	5T	2.4	.40	15	15	2.6		55	85	BA96	MD11f	
70▼	ADH-8512-8-3	8	S	AC	200m	1.0u	30	20	VBU	5T	2.4	.40	15	15	2.6		0	70	BA96	MD11f	
71▼	MN5100	8	S	BIO	200m	1.5u	400m	\$	20	VBU	5T	2.4	.40	15	15	1.5		0	70	BA86	MD19d
72▼	MN5100H	8	S	BIO	200m	1.5u	800m	\$	20	VBU	5T	2.4	.40	15	15	1.5		55	125	BA86	MD19d
73	ADC-EH8B2	8	S	ACG	200m	2.0u	50	10	VBU	4T	2.4	.80	15	15	1.3		0	70	BA17	MD25b	
74▼	MN5130	8	S	L	200m	2.5u	800m	\$	10	VU	1T	2.4	.40	15	15	1.0		0	70	BA84b	MD102b
75▼	MN5130H	8	S	L	200m	2.5u	800m	\$	10	VU	1T	2.4	.40	15	15	1.0		55	125	BA84b	MD102b
76▼	MN5131	8	S	C	200m	2.5u	800m	\$	10	VB	1T	2.4	.40	15	15	1.0		0	70	BA84b	MD102b
77▼	MN5131H	8	S	C	200m	2.5u	800m	\$	10	VB	1T	2.4	.40	15	15	1.0		55	125	BA84b	MD102b
78▼	MN5132	8	S	C	200m																

10. A/D CONVERTERS

IN ORDER OF: (1) RESOLUTION (2) MAX. LIN. ERROR
(3) MAX. CONVERSION TIME & (4) TYPE NUMBER

LINE No.	TYPE NUMBER	RESOLUTION bits	TYPE OF CONV-ERT	OUTPUT ARITH. CODE OPTIONS	2	MAX 3	MAX. GAIN DRIFT (ppm/°C)	INPUT		MIN. OUTPUT DRIVE CURR. (A)	OUTPUT LEVEL		LOGIC HIGH (min) (V)	LOGIC LOW (max) (V)	RATED SUPPLY SPAN		MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS	
					FSR LINEAR ERROR (%)	MAX. CONV. TIME (s)		P-P	V-VOLT A-AMP		NEG. (V)	POS. (V)			(-) (°C)	(+) (°C)		LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO		
1▼	MN502H	8	S	I	200m	12u	800ms	10	VU	6T	2.4	.40	15	15	900m	55	125	BA84	MD102b		
2▼	MN503	8	S	O	200m	12u	400ms	10	VB	6T	2.4	.40	15	15	900m	0	70	BA84	MD102b		
3▼	MN503H	8	S	O	200m	12u	800ms	10	VB	6T	2.4	.40	15	15	900m	55	125	BA84	MD102b		
4▼	MN504	8	S	B	200m	12u	400ms	10	VU	6T	2.4	.40	15	15	900m	0	70	BA84	MD102b		
5▼	MN504H	8	S	B	200m	12u	800ms	10	VU	6T	2.4	.40	15	15	900m	55	125	BA84	MD102b		
6▼	MN507	8	S	O	200m	12u	400ms	20	VB	6T	2.4	.40	15	15	900m	0	70	BA84	MD102b		
7▼	MN507H	8	S	O	200m	12u	800ms	20	VB	6T	2.4	.40	15	15	900m	55	125	BA84	MD102b		
8▼	MN508	8	S	I	200m	12u	400ms	10	VU	6T	2.4	.40	12	12	720m	0	70	BA84a	MD102b		
9▼	MN508H	8	S	I	200m	12u	800ms	10	VU	6T	2.4	.40	12	12	720m	55	125	BA84a	MD102b		
10▼	MN509	8	S	O	200m	12u	400ms	10	VB	6T	2.4	.40	12	12	720m	0	70	BA84	MD102b		
11▼	MN509H	8	S	O	200m	12u	800ms	10	VB	6T	2.4	.40	12	12	720m	55	125	BA84	MD102b		
12▼	MN510	8	S	O	200m	12u	400ms	10	VU	6T	2.4	.40	15	15	825m	0	70	BA84a	MD102b		
13▼	MN510H	8	S	O	200m	12u	800ms	10	VU	6T	2.4	.40	15	15	825m	55	125	BA84a	MD102b		
14▼	MN511	8	S	O	200m	12u	400ms	10	VU	6T	2.4	.40	15	15	825m	0	70	BA84a	MD102b		
15▼	MN511H	8	S	O	200m	12u	800ms	10	VB	6T	2.4	.40	15	15	825m	55	125	BA84a	MD102b		
16▼	ZD470	8	S	AG	200m	15u		20	VBU		2.4	.70	15	15	1.3	0	70	BA83	MD144		
17▼	ADC-80M	8	S	ACEG	200m	18u	7.0	20	VB		2.4	.40	15	15	1.9	0	70	BA40	MD78		
18▼	ADC-80M/ET	8	S	ACG	200m	18u	60	20	VB		2.4	.40	15	15	1.9	55	125	BA40	MD78		
19	AD7570J	8	S	B	200m	20u	10	50	VBU	1.6m	2.4	.40s	0.0	15	10m	0	75	BA38	DL80		
20	ADC30-08N-USB	8	S	A	200m	20u	40	10	VU		2.4	.40	15	15	2.3	0	70	BA1	MD8		
21	ADC30-08Z-USB	8	S	AK	200m	20u	40	10	VU		2.4	.40	15	15	2.3	0	70	BA1	MD8		
22	ADC40-08-BIN	8	S	ACGK	200m	20u	10	20	VB		2.4	.40	15	15	2.5	0	70	BA71	MD9		
23	170-8	8	S	ACG	200m	25u	30	20	VBU	1.6m	2.4	.40	15	15	1.7	25	85	BA2	MD58		
24	171-8	8	S	ACG	200m	25u	10	20	VBU	1.6m	2.4	.40	15	15	1.7	25	85	BA2	MD58		
25	MM4357D	8	S	A	200m	40u	10	10	VBU	1.6m	2.4	.40s	12	5.0	391m	55	125	BA52	DL57		
26	MM5357D	8	S	A	200m	40u	10	10	VBU	1.6m	2.4	.40s	12	5.0	391m	0	70	BA52	DL57		
27	MM5357N	8	S	A	200m	40u	10	10	VBU	1.6m	2.4	.40s	12	5.0	391m	0	70	BA52	DL58		
28	158	8	S	AC	200m	50u	50	11	VBU	6.4m	2.4	.40	0.0	5.0	500m	25	85	BA34	MD5h		
29	158A	8	S	AC	200m	50u	50	11	VBU	6.4m	2.4	.40	0.0	5.0	500m	25	85	BA34	MD5h		
30▼	ZD460	8	S	AG	200m	50u		20	VBU		2.4	.70	15	15	1.3	0	70	BA83	MD144		
31	ADC-89A8D	8	C	E	200m	100u	50	10	VBU	6T	2.4	.80	15	15	1.0	0	70	BA11	MD25		
32▼	MN5065	8	S	O	200m	100u	800ms	10	VB	200u	5.0	.05	0.0	12	70m	0	70	BA85	MD102c		
33▼	MN5065H	8	S	O	200m	100u	800ms	10	VB	200u	5.0	.05	0.0	12	70m	55	125	BA85	MD102c		
34▼	MN5066	8	S	B	200m	100u	800ms	10	VU	200u	5.0	.05	0.0	12	70m	0	70	BA85	MD102c		
35▼	MN5066H	8	S	B	200m	100u	800ms	10	VU	200u	5.0	.05	0.0	12	70m	55	125	BA85	MD102c		
36▼	ADC590-2-BCD	8	C	E	200ms	200u	30	10	VBU		2.5	.50	15	15	1.5	0	70	BA79	MD134		
37▼	ADC590-2-BCD-MIL	8	C	E	200ms	200u	30	10	VBU		2.5	.50	15	15	1.5	55	125	BA79	MD134		
38▼	ADC590-8	8	C	AC	200ms	200u	30	10	VBU		2.5	.50	15	15	1.5	0	70	BA79	MD134		
39▼	ADC590-8-MIL	8	C	AC	200ms	200u	30	10	VBU		2.5	.50	15	15	1.5	55	125	BA79	MD134		
40	ADC-89A8B	8	C	A	200m	200u	50	10	VBU	6T	2.4	.80	15	15	1.0	0	70	BA11	MD25		
41	ADC-89A8B-EX	8	C	A	200m	200u	50	10	VBU	6T	2.4	.80	15	15	1.0	25	85	BA11	MD25		
42	ADC-E8B2	8	D	A	200m	312u	50	2.0	VBU	6T	2.4	.80	15	15	2.2	0	71	BA15d	MD28		
43	ADC-E8B3	8	D	A	200m	312u	50	10	VBU	6T	2.4	.80	15	15	2.2	0	71	BA15d	MD28		
44	ADC-E8B4	8	D	A	200m	312u	50	20	VBU	6T	2.4	.80	15	15	2.2	0	71	BA15d	MD28		
45	ADC-CM8B2	8	S	G	200m	350u	30	20	VBU	2T	2.4	.40	15	15	100m	0	70	BA13	MD26		
46	ADC-CM8B2-EX	8	S	G	200m	350u	30	20	VBU	2T	2.4	.40	15	15	100m	25	85	BA13	MD26		
47	ADC-CM8B	8	S	AC	200m	350u	30	20	VBU	2T	2.4	.40	15	15	100m	0	70	BA13	MD26		
48	ADC-CM8B-EX	8	S	AC	200m	350u	30	20	VBU	6T	2.4	.40	15	15	100m	25	85	BA13	MD26		
49▼	ADC-MC8BC	8	C	AC	200m	500u		10	VU		2.4	.40	0.0	5.0		0	70	DL	DL		
50▼	ADC-MC8BM	8	C	AC	200m	500u		10	VU		2.4	.40	0.0	5.0		55	125	DL	DL		
51▼	ADC-8S	8	C	ACEG	200m	1.0m	60	10	VU		2.4	.40	15	15	1.4	0	70	BA60	MD114		
52	8700CJ	8	I	AH	200m	1.8m	75	10u	AU		3.5	1.5	5.0	5.0	50m	0	70	BA28	DL20		
53	8700CN	8	I	AH	200m	1.8m	75	10u	AU		3.5	1.5	5.0	5.0	25m	40	85	BA28	DL19		
54▼	8703CJ	8	I	A	200m	1.8m	75	10u	AU		2.4	.40	5.0	5.0	50m	0	70	BA68	DL20a		
55▼	8703CN	8	I	A	200m	1.8m	75	10u	AU		2.4	.40	5.0	5.0	50m	40	85	BA68	DL19		
56▼	ADC586-8	8	I	A	200m	1.8m	40	10	VU		2.4	.40	5.0	5.0	30m	40	85	BA78	DL19		
57▼	ADC-EK8B	8	I	AC	200m	1.8m	40	10u	VU	360u	2.4	.40	5.0	5.0	20m	0	70	BA72	DL20a		
58▼	4117	8	I	E	200m	5.0m	250	5.0	VU	6T	2.4	.40	15	15	1.4	0	70	BA94	MD149b		
59▼	4117-10	8	I	E	200m	5.0m	250	5.0	VU	6T	2.4	.40	15	15	1.4	0	70	BA94	MD149a		
60▼	4116	8	I	A	200m	6.0m	250	10	VU	6T	2.4	.40	15	15	1.4	0	70	BA94	MD149b		
61▼	4116-10	8	I	A	200m	6.0m	250	10	VU	6T	2.4	.40	15	15	1.4	0	70	BA94	MD149a		
62	ADC-L8B1A1	8	S	B	220ms	12u	10	5.0	VU	6T	2.4	.80	15	15	2.7	0	70	BA22a	MD30		
63	ADC-L8B1B1	8	S	B	220ms	12u	10	10	VB	6T	2.4	.80	15	15	2.7	0	70	BA22a	MD30		
64	ADC-L8B1C3	8	S	C	220ms	12u	10	10	VB	6T	2.4	.80	15	15	2.7	0	70	BA22a	MD30		
65	ADC-L8B1C4	8	S	G	220ms	12u	10	10	VB	6T	2.4	.80	15	15	2.7	0	70	BA22a	MD30		
66	ADC-L8B1D3	8	S	C	220ms	12u	10	20	VB	6T	2.4	.80	15	15	2.7	0	70	BA22a	MD30		
67	ADC-L8B1D4	8	S	G	220ms	12u	10	20	VB	6T	2.4	.80	15	15	2.7	0	70	BA22a	MD30		
68	ADC-L8B2A1	8	S	B	220ms	12u	10	5.0	VU	6T	2.4	.80	15	15	2.5	0	70	BA22	MD30		
69	ADC-L8B2B1	8	S	B	220ms	12u	10	10	VB	6T	2.4	.80	15	15	2.5	0	70	BA22	MD30		
70	ADC-L8B2C3	8	S	C	220ms	12u	10	10	VB	6T	2.4	.80	15	15	2.5	0	70	BA22	MD30		
71	ADC-L8B2C4	8	S	G	220ms	12u	10	10	VB	6T	2.4	.80	15	15	2.5	0	70	BA22	MD30		
72	ADC-L8B2D3	8	S	C	220ms	12u	10	20	VB	6T	2.4	.80	15	15	2.5	0	70	BA22	MD30		
73	ADC-L8B2D4	8	S	G	220ms	12u	10	20	VB	6T	2.4	.80	15	15	2.5	0	70	BA22	MD30		
74	ADC-UH8B2	8	T	C	400m	100n	50	2.5	VU	4T	2.4	.40	15	15	9.0	0	70	BA26	MD32b		
75	ADC-UH8B	8	T	B	400m	100n	50	2.5	VU	4T	2.4	.40	15	15	9.0	0	70	BA26	MD32		
76	ADC-VH8B2	8	T	C	400m	200n	50	2.5	VU	4T	2.4	.40	15	15	9.0	0	70	BA26	MD32b		
77	ADC-VH8B	8	T	B	400m	200n	50	2.5	VU	4T	2.4	.40	15	15	9.0	0	70	BA26	MD32		
78▼	ADH-8512-7-1	8	S	AC	400m	1.0u	60	20	VBU	5T			15	15	2.6	55	85	BA96	MD11f		

10. A/D CONVERTERS

IN ORDER OF: (1)RESOLUTION (2)MAX.LIN. ERROR
(3)MAX.CONVERSION TIME & (4)TYPE NUMBER

LINE No.	TYPE NUMBER	RESOLUTION bits	TYPE OF CONV	OUTPUT ARITH. CODE OPTIONS	MAX. FSR LINEAR ERROR (%)	MAX. CONV. TIME (s)	MAX. GAIN TEMP. DRIFT (ppm/°C)	INPUT RANGE P.P. V-VOLT A-AMP	MIN. OUTPUT DRIVE CURR. (A)	OUTPUT LEVEL		LOGIC HIGH (min) (V)	LOGIC LOW (max) (V)	RATED PWR. SUPPLY SPAN		MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS	
										NEG. (V)	POS. (V)			(-) (°C)	(+) (°C)		LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO		
1	ADC-G10B4B	10	S	C	50m	100n	50	20	VB	6T	2.4	.40	15	15	3.1	0	70	BA21	MD27c	
2	ADC-G10B4C	10	S	G	50m	100n	50	20	VB	6T	2.4	.40	15	15	3.1	0	70	BA21	MD27c	
3	ADC1103-002	10	S	ACG	50m	1.5u	10	20	VB	6T	2.4	.40	15	15	5.1	0	70	BA63a	MD113a	
4	ADC60-10-USB	10	S	ACG	50m	1.8u	40	20	VB	6T	2.4	.40	15	15	3.7	0	70	BA4a	MD9b	
5	ADC-EH10B2	10	S	ACG	50m	2.0u	30	10	VBU	4T	2.4	.80	15	15	975m	0	70	BA18	MD25c	
6	ADC1109	10	S	ACG	50m	4.0u	30	10	VBU	5T	2.4	.40	15	15	1.6	0	70	BA56	MD116	
7	ADC-EH10B1	10	S	ACG	50m	4.0u	30	10	VBU	4T	2.4	.80	15	15	975m	0	70	BA18	MD25c	
8	A859-10	10	S	D	50m	6.0u	10	20	VB	6T	2.4	.40	15	15	1.6	0	70	BA38	MD9w	
9	ADC-10QU	10	S	ACEG	50m	8.0u	7.0	20	VB	6T	2.4	.40	15	15	2.6	0	70	BA40	MD78	
10	ADC-H10-1	10	S	ACG	50m	8.0u	5.0	20	VBU	T	2.4	.40	15	15	2.6	55	85	BA97	MD9x	
11	ADC-H10-3	10	S	ACG	50m	8.0u	5.0	20	VBU	T	2.4	.40	15	15	2.6	0	70	BA97	MD9x	
12	161-10	10	S	ACG	50m	20u	20	20	VBU	6.4m	2.4	.40	15	15	1.7	25	85	BA35	MD64	
13	168-10	10	S	ACG	50m	20u	40	20	VBU	6.4m	2.4	.40	15	15	2.0	25	85	BA36	MD58a	
14	AD7570L	10	S	B	50m	20u	10	50	VBU	1.6m	2.4	.40	0.0	15	10m	0	75	BA38	DL80	
15	ADC-10Z	10	S	ACG	50m	20u	40	20	VBU	6.4m	2.4	.40	15	15	1.5	0	70	BA57	MD113	
16	ADC-MA10B2B	10	S	ACG	50m	20u	30	20	VBU	5T	2.4	.40	15	15	2.2	0	70	BA23	MD9h	
17	ZN432CE	10	S	C	50m	20u	10	5.0	VB	1.6m	2.4	.40	5.0	5.0	400m	0	70	BA75	DL7	
18	ADC80AG-10	10	S	BD	50m	21u	30	20	VB	2T	2.4	.40	15	15	950m	0	70	BA5	MD57c	
19	ADC-10QM	10	S	ACEG	50m	22u	7.0	20	VB	6T	2.4	.40	15	15	1.9	0	70	BA40	MD78	
20	ADC-10QM/ET	10	S	ACG	50m	22u	18	20	VB	6T	2.4	.40	15	15	1.9	55	125	BA40	MD78	
21	170-10	10	S	ACG	50m	25u	20	20	VBU	1.6m	2.4	.40	15	15	1.7	25	85	BA2	MD58	
22	171-10	10	S	ACG	50m	25u	10	20	VBU	1.6m	2.4	.40	15	15	1.7	25	85	BA2	MD58	
23	ADC30-10N-USB	10	S	A	50m	30u	20	10	VU	6T	2.4	.40	15	15	2.5	0	70	BA1	MD8	
24	ADC30-10Z-USB	10	S	AK	50m	30u	20	10	VU	6T	2.4	.40	15	15	2.5	0	70	BA1	MD8	
25	ZD471	10	S	AG	50m	30u	30	20	VBU	5T	2.4	.70	15	15	1.3	0	70	BA83	MD144	
26	ADC-MA10B2A	10	S	ACG	50m	40u	30	20	VBU	5T	2.4	.40	15	15	2.2	0	70	BA23	MD9h	
27	160-10	10	S	ACG	50m	75u	20	20	VBU	6.4m	2.4	.40	15	15	1.3	25	85	BA35	MD64	
28	ADC1123	10	S	BD	50m	100u	50	20	VB	6T	2.4	.01	0.0	15	600u	0	70	BA64	PC10	
29	ZD461	10	S	AG	50m	100u	30	20	VBU	6T	2.4	.70	15	15	1.3	0	70	BA83	MD144	
30	ADC-CM10B2	10	S	G	50m	350u	30	20	VBU	2T	2.4	.40	15	15	100m	0	70	BA13	MD26	
31	ADC-CM10B2-EX	10	S	G	50m	350u	30	20	VBU	2T	2.4	.40	15	15	100m	25	85	BA13	MD26	
32	ADC-CM10B	10	S	AC	50m	350u	30	20	VBU	2T	2.4	.40	15	15	100m	0	70	BA13	MD26	
33	ADC-CM10B-EX	10	S	AC	50m	350u	30	20	VBU	2T	2.4	.40	15	15	100m	25	85	BA13	MD26	
34	ADC-E10B2	10	D	A	50m	1.2m	50	2.0	VBU	6T	2.4	.80	15	15	2.2	0	71	BA15c	MD28	
35	ADC-E10B3	10	D	A	50m	1.2m	50	10	VBU	6T	2.4	.80	15	15	2.2	0	71	BA15c	MD28	
36	ADC-E10B4	10	D	A	50m	1.2m	50	20	VBU	6T	2.4	.80	15	15	2.2	0	71	BA15c	MD28	
37	8701CN	10	I	AH	50m	6.0m	75	10u	AU	6T	3.5	1.5	5.0	5.0	25m	40	85	BA28	DL19	
38	8704CJ	10	I	A	50m	6.0m	75	10u	AU	6T	2.4	.40	5.0	5.0	50m	40	85	BA68a	DL20a	
39	8704CN	10	I	A	50m	6.0m	75	10u	AU	6T	2.4	.40	5.0	5.0	50m	40	85	BA68a	DL19	
40	ADC586-10	10	I	A	50m	6.0m	40	10	VU	6T	2.4	.40	5.0	5.0	30m	40	85	BA78a	DL19	
41	ADC-EK10B	10	I	AC	50m	6.0m	40	10u	AU	6T	2.4	.40	5.0	5.0	20m	0	70	BA72	DL19	
42	ADC-L10B1A1	10	S	B	70m	16u	10	5.0	VU	6T	2.4	.80	15	15	2.7	0	70	BA22a	MD27d	
43	ADC-L10B1B1	10	S	B	70m	16u	10	10	VU	6T	2.4	.80	15	15	2.7	0	70	BA22a	MD27d	
44	ADC-L10B1C3	10	S	C	70m	16u	10	10	VB	6T	2.4	.80	15	15	2.7	0	70	BA22a	MD27d	
45	ADC-L10B1C4	10	S	C	70m	16u	10	10	VB	6T	2.4	.80	15	15	2.7	0	70	BA22a	MD27d	
46	ADC-L10B1D3	10	S	C	70m	16u	10	20	VB	6T	2.4	.80	15	15	2.7	0	70	BA22a	MD27d	
47	ADC-L10B1D4	10	S	C	70m	16u	10	20	VB	6T	2.4	.80	15	15	2.7	0	70	BA22a	MD27d	
48	ADC-L10B2A1	10	S	B	70m	16u	10	5.0	VU	6T	2.4	.80	15	15	2.5	0	70	BA22	MD27d	
49	ADC-L10B2B1	10	S	B	70m	16u	10	10	VU	6T	2.4	.80	15	15	2.5	0	70	BA22	MD27d	
50	ADC-L10B2C3	10	S	C	70m	16u	10	10	VB	6T	2.4	.80	15	15	2.5	0	70	BA22	MD27d	
51	ADC-L10B2C4	10	S	C	70m	16u	10	10	VB	6T	2.4	.80	15	15	2.5	0	70	BA22	MD27d	
52	ADC-L10B2D3	10	S	C	70m	16u	10	20	VB	6T	2.4	.80	15	15	2.5	0	70	BA22	MD27d	
53	ADC-L10B2D4	10	S	C	70m	16u	10	20	VB	6T	2.4	.80	15	15	2.5	0	70	BA22	MD27d	
54	RDC620-H-1	10	R	A	100m	1.0u	20	5.0	VU	8T	2.4	.50	15	15	3.2	0	70	BA95	MD124b	
55	RDC620-H-3	10	R	A	100m	1.0u	20	10	VU	8T	2.4	.50	15	15	3.2	0	70	BA95	MD124b	
56	RDC620-L-1	10	R	A	100m	1.0u	20	10	VB	8T	2.4	.50	15	15	3.2	0	70	BA95	MD124b	
57	RDC620-L-3	10	R	A	100m	1.0u	20	20	VB	8T	2.4	.50	15	15	3.2	0	70	BA95	MD124b	
58	RDC620-M-1	10	R	A	100m	1.0u	20	10	VBU	5T	2.4	.40	22	22	3.6	0	40		MD9	
59	RDC620-M-3	10	R	A	100m	1.0u	20	20	VBU	5T	2.4	.40	22	22	3.6	0	40		MD9	
60	RDC620-H-1	10	Y	A	100m	1.0u	20	5.0	VBU	5T	2.4	.40	22	22	3.6	0	40		MD9	
61	SDC620-H-3	10	Y	A	100m	1.0u	20	10	VBU	5T	2.4	.40	22	22	3.6	0	40		MD9	
62	SDC620-L-1	10	Y	A	100m	1.0u	20	10	VBU	5T	2.4	.40	22	22	3.6	0	40		MD9	
63	SDC620-L-3	10	Y	A	100m	1.0u	20	20	VBU	5T	2.4	.40	22	22	3.6	0	40		MD9	
64	SDC620-L-1	10	Y	A	100m	1.0u	20	10	VBU	5T	2.4	.40	22	22	3.6	0	40		MD9	
65	SDC620-L-3	10	Y	A	100m	1.0u	20	20	VBU	5T	2.4	.40	22	22	3.6	0	40		MD9	
66	4131-10	10	S	Is	100m	1.0u	20	5.0	VU	8T	2.4	.50	15	15	3.2	0	70	BA95	MD124b	
67	4131-20	10	S	Is	100m	1.0u	20	10	VU	8T	2.4	.50	15	15	3.2	0	70	BA95	MD124b	
68	4131-30	10	S	CGs	100m	1.0u	20	10	VB	8T	2.4	.50	15	15	3.2	0	70	BA95	MD124b	
69	4131-40	10	S	CGs	100m	1.0u	20	20	VB	8T	2.4	.50	15	15	3.2	0	70	BA95	MD124b	
70	770-755-2-10	10	S	ACGN	100m	5.0u	10	10	VBU	5T	2.4	.40	22	22	3.6	0	40		MD9	
71	770-755-2-20	10	S	ACGN	100m	5.0u	10	20	VBU	5T	2.4	.40	22	22	3.6	0	40		MD9	
72	770-755-2-05	10	S	ACGN	100m	7.5u	10	5.0	VBU	5T	2.4	.40	22	22	3.6	0	40		MD9	
73	ADC55-10-BIN	10	S	ACG	100m	8.0u	30	20	VBU	5T	2.0	.40	15	15	3.2	0	70	BA3	MD9a	
74	770-755-2-02	10	S	ACGN	100m	10u	30	2.0	VBU	5T	2.4	.40	22	22	3.6	0	40		MD9	
75	ADC30-10N-BTC	10	S	CG	100m	30u	30	20	VB	6T	2.4	.40	15	15	2.5	0	70	BA1	MD8	
76	ADC30-10Z-BTC	10	S	CGK	100m	30u	30	20	VB	6T	2.4	.40	15	15	2.5	0	70	BA1	MD8	
77	ADC50-10-BIN	10	S	ACGK	100m	30u	15	10	VBU	6T	2.4	.40	15	15	2.5	0	70	BA2	MD9	
78	ADC1105J	10	Δ	HJ	100m	15m	10	40	VB	10T	2.4	.40	15	15	1.8					

10. A/D CONVERTERS

IN ORDER OF: (1)RESOLUTION (2)MAX.LIN. ERROR (3)MAX.CONVERSION TIME & (4)TYPE NUMBER

LINE No.	TYPE NUMBER	RESOLUTION bits	TYPE OF CONV-ERT	OUTPUT ARITH. CODE OPTIONS	MAX. FSR LINEAR ERROR (%)	MAX. CONV. TIME (s)	MAX. GAIN TEMP. DRIFT (ppm/°C)	INPUT RANGE		MIN. OUTPUT DRIVE CURR. (A)	OUTPUT LEVEL		RATED SUPPLY SPAN		MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS	
								MAX. P-P V-VOLT A-AMP	V-VOLT A-AMP		HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)		(-) (°C)	(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO
1♦	876-U10-D1	11	S	C	100ms	12u		10	VU	8.0m	2.4	.40	15	15	1.4	55	125	BA10	MD20
2	MADC-9-1	11	S	GN	100ms	22u	75	20	VB				15	15	2.7	55	85	BA42	MD92
3	MADC-9-3	11	S	GN	100ms	22u	75	20	VB				15	15	2.7	0	70	BA42	MD92
4	MADC-8-1	11	S	GN	200ms	22u	100	20	VB				15	15	2.7	55	85	BA42	MD92
5	MADC-8-3	11	S	GN	200ms	22u	100	20	VB				15	15	2.7	0	70	BA42	MD92
6	ADC-ER12D	12	D	J	43m	35	4.0	VB					0.0	5.0	1.2	0	70	BA20	MD9p
7	ADC-ER12B	12	D	H	76m	35	2.0	VB					0.0	5.0	1.2	0	70	BA20	MD9m
8▼	A859-12	12	S	D	10m	8.0u	10	20	VB		2.4	.40	15	15		25	85	BA38	MD9w
9▼	161-12A	12	S	ACG	10m	30u	20	20	VBU		2.4	.40	15	15	1.8	25	85	BA35	MD64
10▼	ZD462	12	S	AG	10m	200u		20	VBU		2.4	.70	15	15	1.3	0	70	BA83	MD144
11	105-BCD-N	12	I	E	10m	750u	10	10	VU	12m	2.4	.40	15	15	1.7	0	70	BA31	MD60
12	105-BCD-P	12	I	E	10m	750u	10	10	VU	12m	2.4	.40	15	15	1.7	0	70	BA31	MD60
13	105-BIN-N	12	I	A	10m	2.0m	10	10	VU	12m	2.4	.40	15	15	1.7	0	70	BA31	MD60
14	105-BIN-P	12	I	A	10m	2.0m	10	10	VU	12m	2.4	.40	15	15	1.7	0	70	BA31	MD60
15	104-BCD-N	12	I	E	10m	8.0m	10	10	VU	12m	2.4	.40	15	15	1.2	0	70	BA30	MD59
16	104-BCD-P	12	I	E	10m	8.0m	10	10	VU	12m	2.4	.40	15	15	1.2	0	70	BA30	MD59
17	106-1	12	D	J	10m	10m	10	10	VB	1.6m	2.4	.40	15	15	1.0	0	70	BA31	MD61
18	104-BIN-N	12	I	A	10m	20m	10	10	VU	12m	2.4	.40	15	15	1.2	0	70	BA30	MD59
19	104-BIN-P	12	I	A	10m	20m	10	10	VU	12m	2.4	.40	15	15	1.2	0	70	BA30	MD59
20	ADC-EH12B3	12	S	ACG	12m	2.0u	30	20	VBU	4T	2.4	.80	15	15	1.9	0	70	BA18a	MD25d
21▼	ADC-HF12BGC	12	S	AC	12m	2.0u	25	20	VB		2.4	.40	15	15		0	70		MD57
22▼	ADC-HF12BMC	12	S	AC	12m	2.0u	25	20	VB		2.4	.40	15	15		0	70		MD10b
23▼	ADC-HF12BMM	12	S	AC	12m	2.0u	25	20	VB		2.4	.40	15	15		55	125		MD10b
24▼	ADC-HF12BMR	12	S	AC	12m	2.0u	25	20	VB		2.4	.40	15	15		25	85		MD10b
25▼	ADH-8516-12-1	12Δ	S	ACG	12m	2.0u	20	20	VBU	5T			15	15	1.4	25	85	BA99	MD111a
26▼	ADH-8516-12-3	12Δ	S	ACG	12m	2.0u	20	20	VBU	5T			15	15	1.4	0	70	BA99	MD111a
27▼	ADC591-12A	12Δ	S	AC	12ms	3.5u	25	20	VBU	4T	2.5	.50	15	15	2.5	0	70	BA81	MD137
28	ADC-EH12B2	12	S	ACG	12m	4.0u	30	10	VBU	4T	2.4	.80	15	15	1.9	0	70	BA18a	MD25d
29	ADC1102	12	S	ACG	12m	8.0u	10	20	VBU	1.6m	2.4	.50	15	15	1.7	0	70	BA39	MD9v
30	ADC-EH12B1	12	S	ACG	12m	8.0u	30	10	VBU	4T	2.4	.80	15	15	1.9	0	70	BA18a	MD25d
31▼	ADC-HS12BGC	12	S	BM	12m	8.0u	20	20	VB				15	15		0	70		MD57
32▼	ADC-HS12BMC	12	S	BM	12m	8.0u	20	20	VB				15	15		0	70		MD10b
33▼	ADC-HS12BMM	12	S	BM	12m	8.0u	20	20	VB				15	15		55	125		MD10b
34▼	ADC-HS12BMR	12	S	BM	12m	8.0u	20	20	VB				15	15		25	85		MD10b
35	ADC-HZ12BGC	12	S	BDM	12m	8.0u	20	20	VBU	2T	2.4	.40	15	15	2.0	0	70	BA6	MD57
36	ADC-HZ12BMM	12	S	BDM	12m	8.0u	20	20	VBU	2T	2.4	.40	15	15	2.0	55	125	BA6	MD10b
37	ADC-HZ12BMR	12	S	BDM	12m	8.0u	20	20	VBU	2T	2.4	.40	15	15	2.0	25	85	BA6	MD10b
38▼	ADC84KG-12	12	S	BDM	12m	10u	30	20	VB	2T	2.4	.40	15	15	1.5	0	70	BA6	MD10
39▼	ADC85-12-CSB	12	S	BDM	12m	10u	15	20	VB	2T	2.4	.40	15	15	1.8	25	85	BA6	MD10a
40▼	ADC85C-12-CSB	12	S	BDM	12m	10u	25	20	VB	2T	2.4	.40	15	15	1.8	0	70	BA6	MD10a
41▼	MNS210	12	S	I	12m	13u	400ms	10	VU	2T	2.4	.40	15	15	915m	0	70	BA87a	MD19d
42▼	MNS210H	12	S	I	12m	13u	400ms	10	VU	2T	2.4	.40	15	15	915m	55	125	BA87a	MD19d
43▼	MNS211	12	S	O	12m	13u	400ms	10	VB	2T	2.4	.40	15	15	915m	0	70	BA87a	MD19d
44▼	MNS211H	12	S	O	12m	13u	400ms	10	VB	2T	2.4	.40	15	15	915m	55	125	BA87a	MD19d
45▼	MNS212	12	S	O	12m	13u	400ms	20	VB	2T	2.4	.40	15	15	915m	0	70	BA87a	MD19d
46▼	MNS212H	12	S	O	12m	13u	400ms	20	VB	2T	2.4	.40	15	15	915m	55	125	BA87a	MD19d
47▼	MNS213	12	S	I	12m	13u	100ms	10	VU	2T	2.4	.40	15	15	744m	0	70	BA87a	MD19d
48▼	MNS213H	12	S	I	12m	13u	100ms	10	VU	2T	2.4	.40	15	15	744m	55	125	BA87a	MD19d
49▼	MNS214	12	S	O	12m	13u	100ms	10	VB	2T	2.4	.40	15	15	744m	0	70	BA87a	MD19d
50▼	MNS214H	12	S	O	12m	13u	100ms	10	VB	2T	2.4	.40	15	15	744m	55	125	BA87a	MD19d
51▼	MNS215	12	S	O	12m	13u	100ms	20	VB	2T	2.4	.40	15	15	744m	0	70	BA87a	MD19d
52▼	MNS215H	12	S	O	12m	13u	100ms	20	VB	2T	2.4	.40	15	15	744m	55	125	BA87a	MD19d
53▼	MNS216	12	S	B	12m	13u	400ms	10	VU	2T	2.4	.40	15	15	915m	0	70	BA87a	MD19d
54▼	MNS216H	12	S	B	12m	13u	400ms	10	VU	2T	2.4	.40	15	15	915m	55	125	BA87a	MD19d
55▼	ADC-H12-1	12	S	ACG	12m	15u	5.0	10	VU	T			15	15	2.6	55	85	BA97	MD9x
56▼	ADC-H12-3	12	S	ACG	12m	15u	5.0	10	VU	T			15	15	2.6	0	70	BA97	MD9x
57▼	ADC560-12A	12Δ	S	ACG	12ms	20u	15	20	VB	4T	2.4	.40	15	15	1.9	0	70	BA45	MD9t
58▼	ADC560-12A-E	12Δ	S	ACG	12ms	20u	35	20	VBU	4T	2.4	.40	15	15	1.9	0	70	BA45	MD9t
59▼	ADC560-12A-E-G	12Δ	S	ACG	12ms	20u	35	20	VB	4T	2.4	.40	15	15	1.9	0	70	BA45	MD9t
60♦	ADC560-12A-E-G-MIL	12Δ	S	ACG	12ms	20u	35	20	VB	4T	2.4	.40	15	15	1.9	55	125	BA45	MD9t
61♦	ADC560-12A-E-MIL	12Δ	S	ACG	12ms	20u	35	20	VB	4T	2.4	.40	15	15	1.9	55	125	BA45	MD9t
62♦	ADC560-12A-G	12Δ	S	ACG	12ms	20u	35	20	VB	4T	2.4	.40	15	15	1.9	0	70	BA45	MD9t
63♦	ADC560-12A-G-MIL	12Δ	S	ACG	12ms	20u	35	20	VB	4T	2.4	.40	15	15	1.9	55	125	BA45	MD9t
64♦	ADC560-12A-LD	12Δ	S	ACG	12ms	20u	8.0	20	VBU	4T	2.4	.40	15	15	1.9	0	70	BA45	MD9t
65♦	ADC560-12A-LD-G	12Δ	S	ACG	12ms	20u	8.0	20	VB	4T	2.4	.40	15	15	1.9	0	70	BA45	MD9t
66♦	ADC560-12A-LD-G-MIL	12Δ	S	ACG	12ms	20u	8.0	20	VB	4T	2.4	.40	15	15	1.9	55	125	BA45	MD9t
67♦	ADC560-12A-LD-MIL	12Δ	S	ACG	12ms	20u	8.0	20	VBU	4T	2.4	.40	15	15	1.9	55	125	BA45	MD9t
68♦	ADC560-12A-MIL	12Δ	S	ACG	12ms	20u	8.0	20	VBU	4T	2.4	.40	15	15	1.9	55	125	BA45	MD9t
69	ADC-HX12BGC	12	S	BDM	12m	20u	20	20	VBU	2T	2.4	.40	15	15	2.0	0	70	BA6	MD57
70	ADC-HX12BMM	12	S	BDM	12m	20u	20	20	VBU	2T	2.4	.40	15	15	2.0	55	125	BA6	MD10b
71	ADC-HX12BMR	12	S	BDM	12m	20u	20	20	VBU	2T	2.4	.40	15	15	2.0	25	85	BA6	MD10b
72	ADC-MA12B2B	12	S	ACG	12m	20u	30	20	VBU	5T	2.4	.40	15	15	2.2	0	70	BA23	MD9j
73▼	4129-100Z	12	S	ACG	12m	24u	30	20	VBU	6T	2.4	.40	15	15	2.6	0	70	BA46a	MD58a
74▼	41290Z	12	S	ACG	12m	24u	30	20	VBU	6T	2.4	.40	15	15	2.6	0	70	BA46a	MD58a
75	170-12	12	S	ACG	12m	25u	10	20	VBU	1.6m	2.4	.40	15	15	1.7	25	85	BA2	MD58
76	171-12	12	S	ACG	12m	25u	5.0	20	VBU	1.6m	2.4	.40	15	15	1.7	25	85	BA2	MD58
77▼	AD572AD	12	S	ACG	12m	25u	30	20	VB	2T	2.4	.40	15	15	925m	25	85	BA54	MD117
78▼	AD572BD	12	S	ACG	12m	25u	15	20	VB	2T	2.4	.40	15	15	925m	25	85	BA54	MD117
79▼	AD572SD	12	S	ACG	12m	25u	25	20	VB										

10. A/D CONVERTERS

IN ORDER OF: (1)RESOLUTION (2)MAX.LIN. ERROR
(3)MAX.CONVERSION TIME & (4)TYPE NUMBER

LINE No.	TYPE NUMBER	RESOLUTION bits	TYPE OF CONV	OUTPUT ARITH. CODE OPTIONS	MAX. GAIN			INPUT MAX. RANGE P-P V-VOLT A-AMP	MIN. OUTPUT DRIVE CURR. (A)	OUTPUT LEVEL		LOGIC		RATED PWR. SUPPLY SPAN		MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS	
					FSR LINEAR ERROR (%)	MAX. CONV. TIME (s)	TEMP. DRIFT (ppm/°C)			HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)	(-) (°C)	(+) (°C)		LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO		
1	ADC550-12-LD-MIL	12	S	ACG	12m	30u	8.0	10	VBU	4T	2.4	.40	15	15	1.9	55	125	BA76	MD137	
2	ADC550-12-S	12	S	ACG	12m	30u	15	10	VBU	4T	2.4	.40	15	15	1.9	0	70	BA76	MD137	
3	ADC550-12-S-G	12	S	ACG	12m	30u	15	20	VBU	4T	2.4	.40	15	15	1.9	0	70	BA76	MD137	
4	ADC550-12-S-G-MIL	12	S	ACG	12m	30u	15	20	VB	4T	2.4	.40	15	15	1.9	55	125	BA76	MD137	
5	ADC550-12-S-MIL	12	S	ACG	12m	30u	15	10	VBU	4T	2.4	.40	15	15	1.9	55	125	BA76	MD137	
6	168-12QZ	12	S	ACG	12m	40u	30	20	VBU	5T	2.4	.40	15	15	1.8	25	85	BA36	MD58a	
7	873-88B1-D1	12	S	BD	12m	40u	20	20	VB	2T	2.4	.40	15	15	1.1	25	85	BA9	MD18a	
8	873-88B5-D1	12	S	BD	12m	40u	20	10	VB	2T	2.4	.40	15	15	1.1	25	85	BA9	MD18a	
9	873-88U1-D1	12	S	BD	12m	40u	20	10	VU	2T	2.4	.40	15	15	1.1	25	85	BA9	MD18a	
10	ADC30-12N-USB	12	S	A	12m	40u	15	10	VU		2.4	.40	15	15	2.7	0	70	BA1	MD8	
11	ADC30-12Z-USB	12	S	AK	12m	40u	15	10	VU		2.4	.40	15	15	2.7	0	70	BA1	MD8	
12	ADC-12QZ	12	S	ACG	12m	40u	30	20	VB		2.4	.40	15	15	1.8	0	70	BA58	MD113	
13	ADC-MA12B2A	12	S	ACG	12m	40u	30	20	VBU	5T	2.4	.40	15	15	2.2	0	70	BA23	MD9	
14	873-78B1	12	S	BD	12m	50u	30	20	VB	2T	2.4	.40	15	15	1.1	0	70	BA9	MD19a	
15	873-78B5	12	S	BD	12m	50u	30	10	VB	2T	2.4	.40	15	15	1.1	0	70	BA9	md19a	
16	873-78U1	12	S	BD	12m	50u	30	10	VU	2T	2.4	.40	15	15	1.1	0	70	BA9	MD19a	
17	MN515	12	S	BD	12m	50u	100m	20	VBU	5T	2.0	.40	15	15	1.4	0	70	BA88	MD147	
18	MN515H	12	S	BD	12m	50u	100m	20	VBU	5T	2.0	.40	15	15	1.4	55	125	BA88	MD147	
19	MN516	12	S	AC	12m	50u	100m	20	VBU	5T	2.0	.40	15	15	1.8	0	70	BA88	MD147	
20	MN516H	12	S	AC	12m	50u	100m	20	VBU	5T	2.0	.40	15	15	1.8	55	125	BA88	MD147	
21	MN517	12	S	F	12m	50u	100m	10	VU	5T	2.0	.40	15	15	1.8	0	70	BA88	MD147	
22	MN517H	12	S	F	12m	50u	100m	10	VU	5T	2.0	.40	15	15	1.8	55	125	BA88	MD147	
23	MN5200	12	S	I	12m	50u	400m	10	VU	2T	2.4	.40	15	15	915m	0	70	BA87	MD19d	
24	MN5200H	12	S	I	12m	50u	400m	10	VU	2T	2.4	.40	15	15	915m	55	125	BA87	MD19d	
25	MN5201	12	S	O	12m	50u	400m	10	VB	2T	2.4	.40	15	15	915m	0	70	BA87	MD19d	
26	MN5201H	12	S	O	12m	50u	400m	10	VB	2T	2.4	.40	15	15	915m	55	125	BA87	MD19d	
27	MN5202	12	S	O	12m	50u	400m	20	VB	2T	2.4	.40	15	15	915m	0	70	BA87	MD19d	
28	MN5202H	12	S	O	12m	50u	400m	20	VB	2T	2.4	.40	15	15	915m	55	125	BA87	MD19d	
29	MN5203	12	S	I	12m	50u	100m	10	VU	2T	2.4	.40	15	15	744m	0	70	BA87	MD19d	
30	MN5203H	12	S	I	12m	50u	100m	10	VU	2T	2.4	.40	15	15	744m	55	125	BA87	MD19d	
31	MN5204	12	S	O	12m	50u	100m	10	VB	2T	2.4	.40	15	15	744m	0	70	BA87	MD19d	
32	MN5204H	12	S	O	12m	50u	100m	10	VB	2T	2.4	.40	15	15	744m	55	125	BA87	MD19d	
33	MN5205	12	S	O	12m	50u	100m	20	VB	2T	2.4	.40	15	15	744m	0	70	BA87	MD19d	
34	MN5205H	12	S	O	12m	50u	100m	20	VB	2T	2.4	.40	15	15	744m	55	125	BA87	MD19d	
35	MN5206	12	S	B	12m	50u	400m	10	VU	2T	2.4	.40	15	15	915m	0	70	BA87	MD19d	
36	MN5206H	12	S	B	12m	50u	400m	10	VU	2T	2.4	.40	15	15	915m	55	125	BA87	MD19d	
37	160-12	12	S	ACG	12m	100u	20	20	VB	6.4m	2.4	.40	15	15	1.3	25	85	BA35	MD64	
38	ADC-12QLJ	12	S	BD	12m	130u	50	20	VB		15	.01	0.0	15	600u	0	70	BA65	PC10	
39	ADC-12OLK	12	S	BD	12m	130u	20	20	VB		15	.01	0.0	15	600u	0	70	BA65	PC10	
40	MN5250	12	S	I	12m	175u	400m	10	VU	200u	5.0	.05	12	12	80m	0	70	BA87b	MD19d	
41	MN5250H	12	S	I	12m	175u	400m	10	VU	200u	5.0	.05	12	12	80m	55	125	BA87b	MD19d	
42	MN5251	12	S	O	12m	175u	400m	10	VB	200u	5.0	.05	12	12	80m	0	70	BA87b	MD19d	
43	MN5251H	12	S	O	12m	175u	400m	10	VB	200u	5.0	.05	12	12	80m	55	125	BA87b	MD19d	
44	MN5252	12	S	O	12m	175u	400m	20	VB	200u	5.0	.05	12	12	80m	0	70	BA87b	MD19d	
45	MN5252H	12	S	O	12m	175u	400m	20	VB	200u	5.0	.05	12	12	80m	55	125	BA87b	MD19d	
46	MN5253	12	S	B	12m	175u	400m	10	VU	200u	5.0	.05	12	12	80m	0	70	BA87b	MD19d	
47	MN5253H	12	S	B	12m	175u	400m	10	VU	200u	5.0	.05	12	12	80m	55	125	BA87b	MD19d	
48	ADC-HC12BGC	12	S	AC	12m	300u	20	20	VB		15	0.0	15	15		0	70	MD57		
49	ADC-HC12BMC	12	S	AC	12m	300u	20	20	VB		15	0.0	15	15		0	70	MD10b		
50	ADC-HC12BMM	12	S	AC	12m	300u	20	20	VB		15	0.0	15	15		55	125	MD10b		
51	ADC-HC12BMR	12	S	AC	12m	300u	20	20	VB		15	0.0	15	15		25	85	MD10b		
52	ADC-CM12B2	12	S	G	12m	350u	30	20	VBU	2T	2.4	.40	15	15	100m	0	70	BA13	MD26	
53	ADC-CM12B2-EX	12	S	G	12m	350u	30	20	VBU	2T	2.4	.40	15	15	100m	25	85	BA13	MD26	
54	ADC-CM12B	12	S	AC	12m	350u	30	20	VBU	2T	2.4	.40	15	15	100m	0	70	BA13	MD26	
55	ADC-CM12B-EX	12	S	AC	12m	350u	30	20	VBU	2T	2.4	.40	15	15	100m	25	85	BA13	MD26	
56	ADC-E12B2	12	D	A	12m	5.0m	50	2.0	VBU	6T	2.4	.80	15	15	2.2	0	71	BA15b	MD28	
57	ADC-E12B3	12	D	A	12m	5.0m	50	10	VBU	6T	2.4	.80	15	15	2.2	0	71	BA15b	MD28	
58	ADC-E12B4	12	D	A	12m	5.0m	50	20	VBU	6T	2.4	.80	15	15	2.2	0	71	BA15b	MD28	
59	4109	12	I	I	12m	6.0m	20	10	VU	6T	2.4	.60	15	15	1.6	0	70	BA92	MD148	
60	4109-10	12	I	A	12m	6.0m	20	10	VU	6T	2.4	.60	15	15	1.6	0	70	BA92	MD148	
61	8702CN	12	I	AH	12m	2.4m	75	10u	AU		3.5	1.5	5.0	5.0	25m	40	85	BA28	DL20	
62	8705CN	12	I	A	12m	2.4m	75	10u	AU		2.4	.40	5.0	5.0	50m	40	85	BA68	DL19	
63	ADC586-12	12	I	A	12m	2.4m	40	10	VU		2.4	.40	5.0	5.0	30m	40	85	BA78b	DL19	
64	ADC-EK12B	12	I	AC	12m	2.4m	40	10u	AU	360u	2.4	.40	5.0	5.0	20m	0	70	BA72	DL19	
65	ADC535-3-BCD	12	I	E	20m	35m	30	10	VU	8T			15	15	1.2	0	70	BA47	MD77	
66	ADC535-3-BCD-BP	12	I	J	20m	35m	30	20	VB	8T			15	15	1.4	0	70	BA48	MD9u	
67	ADC535-12A-E	12	I	A	20m	35m	30	10	VU	8T			15	15	1.2	0	70	BA47	MD77	
68	ADC575-12	12	I	AC	20m	100m	30	20	VB		12	3.0	0.0	15	30m	0	70	BA50	MD98	
69	ADC585-12	12	I	AC	20m	100m	30	20	VBU		2.0	.80	0.0	15	30m	0	70	BA50	MD98	
70	ADH-8516-11-1	12	Δ	ACG	24m	2.0u	30	20	VBU	5T			15	15	1.4	25	85	BA99	MD111a	
71	ADH-8516-11-3	12	Δ	ACG	24m	2.0u	30	20	VBU	5T			15	15	1.4	0	70	BA99	MD111a	
72	ADH-11/5	12	S	G	25m	2.5u	20	10	VU				5.2	0.0	9.0	55	85	BA98	PC6a	
73	4133-11	12	S	ACGI	25m	2.5u	20	5.0	VBU	8T	2.4	.50	15	15	3.2	0	70	BA95	MD151	
74	4133-22	12	S	ACGI	25m	2.5u	20	20	VBU	8T	2.4	.50	15	15	3.2	0	70	BA95	MD151	
75	4132-11	12	S	ACGI	25m	3.5u	20	5.0	VBU	8T	2.4	.50	15	15	3.2	0	70	BA95	MD151	
76	4132-22	12	S	ACGI	25m	3.5u	20	20	VBU	8T	2.4	.50	15	15	3.2	0	70	BA95	MD151	
77	ADC60-12-USB	12	S	ACG	25m	3.5u	30	20	VB	6T	2.4	.40	15	15	3.7	0	70	BA4b	MD9b	
78	ADC1103-003	12	S	ACG	25m	3.5u	10	20	VB		2.4	.40	15	15	5.1	0	70	BA63		

10. A/D CONVERTERS

IN ORDER OF: (1)RESOLUTION (2)MAX.LIN. ERROR
(3)MAX.CONVERSION TIME & (4)TYPE NUMBER

LINE No.	4	TYPE NUMBER	1	RESOLUTION OF CONV. ERR	TYPE OF ARITH. CODE OPTIONS	2			3		INPUT		MIN. OUTPUT DRIVE CURR. (A)	OUTPUT LEVEL		LOGIC		RATED PWR. SUPPLY SPAN		MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS	
						MAX. FSR LINEAR ERROR (%)	MAX. CONV. TIME (s)	TEMP. DRIFT (ppm/°C)	P-P	V-VOLT A-AMP	HIGH (min) (V)	LOW (max) (V)		NEG. (V)	POS. (V)	(-) (°C)	(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO					
1		ADC30-12N-BTC	12	S	CG	25m	40u	20	20	VB	2.4	.40	15	15	2.7	0	70	BA1	MD8					
2		ADC30-12Z-BTC	12	S	CGK	25m	40u	20	20	VB	2.4	.40	15	15	2.7	0	70	BA1	MD8					
3		770-750	12	S	ACEGN	25m	50u	20	20	VU	3.0	.50	22	22	2.7	0	70	BA1	MD8					
4		770-753	12	S	ACEGN	25m	50u	20	20	VU	3.0	.50	22	22	2.7	0	70	BA1	MD8					
5		ADC-L12B1A1	12	S	B	32m	20u	10	5.0	VU	6T	2.4	.80	15	15	2.7	0	70	BA22a	MD27d				
6		ADC-L12B1B1	12	S	B	32m	20u	10	10	VU	6T	2.4	.80	15	15	2.7	0	70	BA22a	MD27d				
7		ADC-L12B1C3	12	S	C	32m	20u	10	10	VB	6T	2.4	.80	15	15	2.7	0	70	BA22a	MD27d				
8		ADC-L12B1C4	12	S	G	32m	20u	10	10	VB	6T	2.4	.80	15	15	2.7	0	70	BA22a	MD27d				
9		ADC-L12B1D3	12	S	C	32m	20u	10	20	VB	6T	2.4	.80	15	15	2.7	0	70	BA22a	MD27d				
10		ADC-L12B1D4	12	S	G	32m	20u	10	20	VB	6T	2.4	.80	15	15	2.7	0	70	BA22a	MD27d				
11		ADC-L12B2A1	12	S	B	32m	20u	10	5.0	VU	6T	2.4	.80	15	15	2.5	0	70	BA22	MD27d				
12		ADC-L12B2B1	12	S	B	32m	20u	10	10	VU	6T	2.4	.80	15	15	2.5	0	70	BA22	MD27d				
13		ADC-L12B2C3	12	S	C	32m	20u	10	10	VB	6T	2.4	.80	15	15	2.5	0	70	BA22	MD27d				
14		ADC-L12B2C4	12	S	G	32m	20u	10	10	VB	6T	2.4	.80	15	15	2.5	0	70	BA22	MD27d				
15		ADC-L12B2D3	12	S	C	32m	20u	10	20	VB	6T	2.4	.80	15	15	2.5	0	70	BA22	MD27d				
16		ADC-L12B2D4	12	S	G	32m	20u	10	20	VB	6T	2.4	.80	15	15	2.5	0	70	BA22	MD27d				
17		ADH-10/1	12	S	G	50m	1.0u	10	10	VB	4T	2.5	.50	15	15	9.0	55	85	BA98	PC6a				
18		ADC591-12C	12	S	AC	50m	3.5u	25	10	VBU	4T	2.5	.50	15	15	2.5	0	70	BA81	MD137				
19		ADC560-3-BCD	12	S	E	50m	20u	15	10	VBU	4T	2.4	.40	15	15	1.9	0	70	BA45	MD9t				
20		ADC560-3-BCD-E	12	S	E	50m	20u	15	10	VBU	4T	2.4	.40	15	15	1.9	0	70	BA45	MD9t				
21		ADC560-3-BCD-E-MIL	12	S	E	50m	20u	35	10	VBU	4T	2.4	.40	15	15	1.9	55	125	BA45	MD9t				
22		ADC560-3-BCD-LD	12	S	E	50m	20u	8.0	10	VBU	4T	2.4	.40	15	15	1.9	0	70	BA45	MD9t				
23		ADC560-3-BCD-LD-MIL	12	S	E	50m	20u	8.0	10	VBU	4T	2.4	.40	15	15	1.9	55	125	BA45	MD9t				
24		ADC560-3-BCD-MIL	12	S	E	50m	20u	15	10	VBU	4T	2.4	.40	15	15	1.9	55	125	BA45	MD9t				
25		ADC560-12C	12	S	ACG	50m	20u	15	10	VBU	4T	2.4	.40	15	15	1.9	0	70	BA45	MD9t				
26		ADC560-12C-E	12	S	ACG	50m	20u	35	10	VBU	4T	2.4	.40	15	15	1.9	0	70	BA45	MD9t				
27		ADC560-12C-E-G	12	S	ACG	50m	20u	35	20	VB	4T	2.4	.40	15	15	1.9	0	70	BA45	MD9t				
28		ADC560-12C-E-G-MIL	12	S	ACG	50m	20u	35	20	VB	4T	2.4	.40	15	15	1.9	55	125	BA45	MD9t				
29		ADC560-12C-E-MIL	12	S	ACG	50m	20u	35	10	VBU	4T	2.4	.40	15	15	1.9	55	125	BA45	MD9t				
30		ADC560-12C-G	12	S	ACG	50m	20u	15	10	VBU	4T	2.4	.40	15	15	1.9	0	70	BA45	MD9t				
31		ADC560-12C-G-MIL	12	S	ACG	50m	20u	15	20	VB	4T	2.4	.40	15	15	1.9	55	125	BA45	MD9t				
32		ADC560-12C-LD	12	S	ACG	50m	20u	8.0	10	VBU	4T	2.4	.40	15	15	1.9	0	70	BA45	MD9t				
33		ADC560-12C-LD-G	12	S	ACG	50m	20u	8.0	10	VBU	4T	2.4	.40	15	15	1.9	55	125	BA45	MD9t				
34		ADC560-12C-LD-G-MIL	12	S	ACG	50m	20u	8.0	20	VB	4T	2.4	.40	15	15	1.9	55	125	BA45	MD9t				
35		ADC560-12C-LD-MIL	12	S	ACG	50m	20u	8.0	10	VBU	4T	2.4	.40	15	15	1.9	55	125	BA45	MD9t				
36		ADC560-12C-MIL	12	S	ACG	50m	20u	15	10	VBU	4T	2.4	.40	15	15	1.9	55	125	BA45	MD9t				
37		ADC30-12N-BCD	12	S	E	50m	30u	20	10	VU	2.4	.40	15	15	2.7	0	70	BA1	MD8					
38		ADC30-12Z-BCD	12	S	EK	50m	30u	20	10	VU	2.4	.40	15	15	2.7	0	70	BA1	MD8					
39		ADC50-12-BCD	12	S	EK	50m	30u	15	20	VBU	2.4	.40	15	15	2.5	0	70	BA2	MD9					
40		ADC550-10-E	12	S	ACG	50m	30u	35	10	VBU	4T	2.4	.40	15	15	1.9	0	70	BA76	MD137				
41		ADC550-10-E-G	12	S	ACG	50m	30u	35	20	VB	4T	2.4	.40	15	15	1.9	0	70	BA76	MD137				
42		ADC550-10-E-G-MIL	12	S	ACG	50m	30u	35	20	VB	4T	2.4	.40	15	15	1.9	55	125	BA76	MD137				
43		ADC550-10-E-MIL	12	S	ACG	50m	30u	35	10	VBU	4T	2.4	.40	15	15	1.9	55	125	BA76	MD137				
44		ADC550-10-LD	12	S	ACG	50m	30u	8.0	10	VBU	4T	2.4	.40	15	15	1.9	0	70	BA76	MD137				
45		ADC550-10-LD-G	12	S	ACG	50m	30u	8.0	10	VBU	4T	2.4	.40	15	15	1.9	55	125	BA76	MD137				
46		ADC550-10-LD-G-MIL	12	S	ACG	50m	30u	8.0	20	VB	4T	2.4	.40	15	15	1.9	55	125	BA76	MD137				
47		ADC550-10-LD-MIL	12	S	ACG	50m	30u	8.0	10	VBU	4T	2.4	.40	15	15	1.9	55	125	BA76	MD137				
48		ADC550-10-S	12	S	ACG	50m	30u	15	10	VBU	4T	2.4	.40	15	15	1.9	0	70	BA76	MD137				
49		ADC550-10-S-G	12	S	ACG	50m	30u	15	20	VB	4T	2.4	.40	15	15	1.9	0	70	BA76	MD137				
50		ADC550-10-S-G-MIL	12	S	ACG	50m	30u	15	20	VB	4T	2.4	.40	15	15	1.9	55	125	BA76	MD137				
51		ADC550-10-S-MIL	12	S	ACG	50m	30u	15	10	VBU	4T	2.4	.40	15	15	1.9	55	125	BA76	MD137				
52		ADC-E12D2	12	D	E	50m	5.0m	50	2.0	VBU	6T	2.4	.80	15	15	2.2	0	71	BA15b	MD28				
53		ADC-E12D3	12	D	E	50m	5.0m	50	10	VBU	6T	2.4	.80	15	15	2.2	0	71	BA15	MD28				
54		ADC-E12D4	12	D	E	50m	5.0m	50	20	VBU	6T	2.4	.80	15	15	2.2	0	71	BA15	MD28				
55		103	12	I	E	50m	40m	20	10	VU	10T	2.4	.80	15	5.0	9.0m	25	85	BA73	MD130				
56		ADC1100	12	D	J	50m	42m	50	40m	VB	2.4	.40	0.0	5.0	1.0	0	70	BA59	MD113					
57		ADC-L12D1A2	12	S	E	70m	20u	10	5.0	VU	6T	2.4	.80	15	15	2.7	0	70	BA22a	MD27d				
58		ADC-L12D1B2	12	S	E	70m	20u	10	10	VU	6T	2.4	.80	15	15	2.7	0	70	BA22a	MD27d				
59		ADC-L12D2A2	12	S	E	70m	20u	10	5.0	VU	6T	2.4	.80	15	15	2.5	0	70	BA22	MD27d				
60		ADC-L12D2B2	12	S	E	70m	20u	10	10	VU	6T	2.4	.80	15	15	2.5	0	70	BA22	MD27d				
61		ADH-9/1	12	S	G	100m	900n	10	10	VU	4T	2.4	.40	15	0.0	9.0	55	85	BA98	PC6a				
62		ADH-8/1	12	S	G	200m	800n	10	10	VB	4T	2.4	.40	15	5.0	9.0	55	85	BA98	PC6a				
63		AD02-883AW	12	S	ACG	200m	8.0u	120	20	VBU	3.2m	2.4	.40	15	15	572m	55	125	BA29	DL48				
64		AD02-883W	12	S	ACG	200m	8.0u	120	20	VBU	3.2m	2.4	.40	15	15	572m	55	125	BA29	DL48				
65		AD02AW	12	S	ACG	200m	8.0u	60	20	VBU	3.2m	2.4	.40	15	15	572m	55	125	BA29	DL48				
66		AD02CW	12	S	ACG	200m	8.0u	120	20	VBU	3.2m	2.4	.40	15	15	572m	0	70	BA29	DL48				
67		AD02EW	12	S	ACG	200m	8.0u	60	20	VBU	3.2m	2.4	.40	15	15	572m	0	70	BA29	DL48				
68		AD02W	12	S	ACG	200m	8.0u	120	20	VBU	3.2m	2.4	.40	15	15	572m	55	125	BA29	DL48				
69		PD855-3-BCD	12	P	E	200m	250u	30	10	VU	4T	2.4	.40	15	15	1.3	0	70	BA77	MD137				
70		PD855-12	12	P	A	200m	1.0m	30	10	VU	4T	2.4	.40	15	15	1.3	0	70	BA77	MD137				
71		A855-13	13	S	BDM	6.0m	25u	7.0	20	VBU	5T	2.4	.40	15	15	2.5	25	85	BA43	MD9s				
72		4111	13	I	F	6.0m	2.5m	20	10	VU	6T	2.4	.60	15	15	1.6	0	70	BA92	MD148				
73		4111-10	13	I	F	6.0m	2.5m	20	10	VU	6T	2.4	.60	15	15	1.6	0	70	BA92	MD148				
74		AD7550	13	Q	G	6.0m	40m	10	20	VBU	1.6m	2.4	.50	15	15	70m	-25	85	BA37	DL89				
75		ADC-EK12DC	13	I	E	12m	12m	40	10u	AU	360u	2.4	.40	5.0	5.0	20m	0	70	BA72	DL19				
76		ADC-EK																						

10. A/D CONVERTERS

IN ORDER OF: (1)RESOLUTION (2)MAX.LIN. ERROR
(3)MAX.CONVERSION TIME & (4)TYPE NUMBER

LINE No.	TYPE NUMBER	RESOLUTION bits	TYPE OF CONV	OUTPUT ARITH. CODE OPTIONS	MAX. LINEAR ERROR (%)		MAX. GAIN TEMP. DRIFT (ppm/°C)		INPUT MAX. RANGE		MIN. OUTPUT DRIVE CURR. (A)	OUTPUT LEVEL		LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. OPERATE. PWR. DISS. (W)	OPER. TEMP.		DRAWINGS	
					FSR	MAX. CONV. TIME (s)	P-P	V-VOLT	A-AMP	HIGH (min)		LOW (max)	NEG. (V)	POS. (V)	(-)	(+)	LOGIC DWG. No.		OUTLINE DWG. No.			
1▼	HMSDC-H4	14	SY	A	3.0m	150u	11	V∅s	90	V∅s					15	15	1.2	55	105	BA100	MD11g	
2▼	HMSDC-L4	14	SY	A	3.0m	150u	11	V∅s	90	V∅s					15	15	1.2	55	105	BA100	MD11g	
3	107-BCD	14	D	E	5.0m	40m	1.0	10	VB	1.6m	2.4	.40		15	15	1.2	0	70	BA32	MD62		
4	107-BIN	14	D	A	5.0m	40m	1.0	20	VB	1.6m	2.4	.40		15	15	1.2	0	70	BA32	MD62		
5▼	MN5260	14	S	O	6.0m	250u	400m	18m	20	VB	200u	5.0	.80		15	15	300m	0	70	BA89	PC13	
6▼	MN7200	14	R	A	9.0m	2.0m	5.0 †	11	V∅s	1.1	2.4	.40		15	15	4.6	0	70	BA89	PC13		
7▼	ADC141	14	D	H	10m	40m	5.0 †	20	VB	40	VB	10T	2.4	.40	15	15	1.8	0	70	BA62	MD115	
8▼	ADC1105K	14Δ	D	HJ	10m	150m	5.0 †	40	VB	10T	2.4	.40		15	15	1.8	0	70	BA61	MD113b		
9▼	SDC1602511	14	Y	A	18m	300m		12	V∅s	4T				15	15	2.8	0	70	BA67	MD120		
10▼	SDC1602512	14	Y	A	18m	300m		90	V∅s	4T				15	15	2.8	0	70	BA67	MD120		
11▼	SDC1602611	14	Y	A	18m	300m		12	V∅s	4T				15	15	2.8	55	105	BA67	MD120		
12▼	SDC1602612	14	Y	A	18m	300m		90	V∅s	4T				15	15	2.8	55	105	BA67	MD120		
13	HRDC-14-H-1	14	R	A	42m	200m		90	VB	4T				15	15	750m	55	125		MD111		
14	HRDC-14-H-3	14	R	A	42m	200m		90	VB	4T				15	15	750m	0	70		MD111		
15	HRDC-14-L-1	14	R	A	42m	200m		11	VB	4T				15	15	750m	55	125		MD111		
16	HRDC-14-L-3	14	R	A	42m	200m		11	VB	4T				15	15	750m	0	70		MD111		
17	HRDC-14-M-1	14	R	A	42m	200m		26	VB	4T				15	15	750m	55	125		MD111		
18	HRDC-14-M-3	14	R	A	42m	200m		26	VB	4T				15	15	750m	0	70		MD111		
19	HSDC-14-H-1	14	Y	A	42m	200m		90	VB	4T				15	15	750m	55	125	BA54	MD111		
20	HSDC-14-H-3	14	Y	A	42m	200m		90	VB	4T				15	15	750m	0	70	BA54	MD111		
21	HSDC-14-L-1	14	Y	A	42m	200m		11	VB	4T				15	15	750m	55	125	BA54	MD111		
22	HSDC-14-L-3	14	Y	A	42m	200m		11	VB	4T				15	15	750m	0	70	BA54	MD111		
23	HSDC-14-6-1	14	Y	A	42m	800m		90	VB	4T				15	15	750m	55	125	BA54	MD111		
24	HSDC-14-6-3	14	Y	A	42m	800m		90	VB	4T				15	15	750m	0	70	BA54	MD111		
25▼	ADC-M15	15	S	CG	3.0m	25u	3.0	20	VB	5T				15	15	6.7	0	70	BA106	PC15		
26	ADC-EP16D6	16	D	J		230m	8.0	4.0	VBU	1T	2.5	.40		15	15	1.0	0	70	BA19	MD		
27	ADC-EP16D5	16	D	J		260m	8.0	4.0	VBU	1T	2.5	.40		15	15	1.0	0	70	BA19	MD		
28	A856-16	16	S	D	760u	10u	7.0	20	V	1.6m	2.4	.40		15	15	6.0	0	50	BA44	PC5		
29▼	A858-16	16	S	ACG	1.5m	40u	7.0	20	VBU	20T	2.4	.40		15	15	4.2	25	85	BA74			
30▼	ADC-16Q	16	S	ACG	1.5m	400uf	8.0	20	VB		2.4	.40		15	15	2.6	0	70	BA66	PC10a		
31	109	16	D	AE	2.5m	21m	1.0	24	VB		2.4	.40		15	15	455m	25	85	BA33	MD63		
32▼	110	16	D	AE	2.5m	21m	1.0	24	VB	1T	2.4	.40		15	15	825m	25	85	BA33	MD63a		
33	ADC100-BCD	16	I	E	5.0m	30m	10	10	VU		2.4	.40		15	15	2.1	0	70	BA7	MD9c		
34	ADC100-SMD	16	I	J	5.0m	30m	5.0	20	VB		2.4	.40		15	15	2.1	0	70	BA7	MD9c		
35	ADC100-BOB	16Δ	I	C	5.0m	200m	10	20	VB		2.4	.40		15	15	2.1	0	70	BA8	MD9f		
36	ADC100-USB	16Δ	I	A	5.0m	200m	10	10	VU		2.4	.40		15	15	2.1	0	70	BA8	MD9f		
37▼	ADC171	16	D	J	10m	40m	5.0 †	24	VB		2.4	.40		15	15	1.9	0	70	BA62	MD115		
38	SDC501-1	16Δ	RY	A	10 s			90	V∅s		3.0			0.0	15	750m	55	105				
39	SDC501-3	16Δ	RY	A	10 s			90	V∅s		3.0			0.0	15	750m	0	70				

11. D/A CONVERTERS

IN ORDER OF: (1)RESOLUTION (2)MAX.LIN. ERROR
(3)MAX. SETTLING TIME & (4)TYPE NUMBER

LINE No.	4	TYPE NUMBER	1	RESOLUTION bits	TYPE OF CONV.	INPUT ARITH. CODE	2	MAX. FSR LINEAR ERROR (%)	3	MAX. SETTLING TIME (s)	MAX. GAIN ACCUR. (%)	MAX. TEMP. DRIFT (ppm/°C)	OUTPUT RANGE		INPUT LOGIC LEVEL		RATED SUPPLY SPAN		MAX. OPERATE PWR.		OPER. TEMP.		DRAWINGS	
													MAX. P.P.	V-VOLT A-AMP	HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)	PWR. DISS. (W)	(-) (°C)	(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO	
1▼		DAC101		5	L	A		100m\$	2.0u	100m			3.3	VU	2.4	.40	20	1.6	55	125	BB85	MD119		
2▼		DAC100		5	L	A		300m\$	2.0u	300m			3.3	VU	2.4	.40	20	1.6	55	125	BB85	MD119		
3#		uPC603D		6	L				3.0u								15	15	250m	20	80	BB93	DL7	
4▼		DAC01-883BY		6	L	BDGN		400m	3.0u	750m	120	20	VBU	2.1	.50	15	15	250m	55	125	BB33	DL45		
5▼		DAC01-883FY		6	L	BDGN		400m	3.0u	750m	80	10	VU	2.1	.50	15	15	250m	55	125	BB33	DL45		
6▼		DAC01-883Y		6	L	BDGN		400m	3.0u	750m	80	20	VBU	2.1	.50	15	15	250m	55	125	BB33	DL45		
7		DAC01BY		6	L	BDGN		400m	3.0u	750m	120	20	VBU	2.1	.50	15	15	250m	55	125	BB33	DL45		
8		DAC01CY		6	L	BDGN		400m	3.0u	750m	160	20	VBU	2.1	.50	15	15	250m	0	70	BB33	DL45		
9▼		DAC01DY		6	L	BDGN		400m	3.0u	750m	160	20	VBU	2.1	.50	15	15	250m	0	70	BB33	DL45		
10♦		DAC01FY		6	L	BDGN		400m	3.0u	750m	80	10	VU	2.1	.50	15	15	250m	55	125	BB33	DL45		
11		DAC01HY		6	L	BDGN		400m	3.0u	750m	160	10	VU	2.1	.50	15	15	250m	0	70	BB33	DL45		
12		DAC01Y		6	L	BDGN		400m	3.0u	750m	80	20	VBU	2.1	.50	15	15	250m	55	125	BB33	DL45		
13		DAC-HV8B100		6	L	A		750m	75n	400m	60	5.0	VU	2.0	.80	15	15	1.7	0	70	BB22	MD40		
14		DAC-HV8B100-EX		6	L	A		750m	75n	400m	60	5.0	VU	2.0	.80	15	15	1.7	25	85	BB22	MD40		
15		7581		6	L	A		750m	300n	750m	100	20	VBU	2.0	.80	15	15	1.3	♦	55	85	MD7		
16		MC1406L		6	M	E		780m\$	300n	750m	80	4.2m	AU	2.4	.80	15	5.0	240m	0	70	BB31	TO116		
17		MC1506L		6	M	E		780m\$	300n	750m	80	4.2m	AU	2.4	.80	15	5.0	240m	55	125	BB31	TO116		
18▼		MN301		6	L	LO		780m	23u	780m	800m\$	10	VBU	2.0	.80	15	15	400m	0	70	BB125	MD146		
19▼		MN301H		6	L	LO		780m	23u	780m	800m\$	10	VBU	2.0	.80	15	15	400m	55	125	BB125	MD146		
20		DAC02DDX1		7	L	H		400m	1.5u	400m	150	20	VB	2.0	.80	15	15	350m	0	70	BB34	DL46		
21		DAC02DDX2		7	L	H		400m	1.5u	400m	150	10	VB	2.0	.80	15	15	350m	0	70	BB34	DL46		
22		DAC04DDX2		7	L	CGN		400m	2.5u	400m	150	10	VB	2.0	.80	15	15	350m	0	70	BB36	DL46		
23▼		uPC610D		8	L				7.0u								15	15		20	80	BB94		
24▼		4021		8	L	AC		10m	25u	10m	40	10	VBU	2.0	.80	15	15	600m	0	70	BB122	MD150b		
25		DAC76BX		8\$	N	H;16\$		13m	500n	500m	250m	23	VB	2.0	.80	15	15	192m	55	125	BB40	DL46		
26		DAC76EX		8\$	N	H;16\$		13m	500n	500m	250m	23	VB	2.0	.80	15	15	192m	0	70	BB40	DL46		
27		DAC76CX		8\$	N	H;16\$		25m	500n	1.0	500m	23	VB	2.0	.80	15	15	192m	0	70	BB40	DL46		
28		DAC76X		8\$	N	H;16\$		25m	500n	1.0	500m	23	VB	2.0	.80	15	15	192m	55	125	BB40	DL46		
29▼		4020		8	L	AC		50m	300n	50m	40	2.0m	ABU	2.0	.80	15	15	450m	0	70	BB122a	MD150b		
30▼		2013		8	M	AC		100m	85n	200m	25	10m	ABU	2.0	.80	15	15	900m	0	70	BB90	MD127		
31▼		4060		8	L	AC		100m	135n	200m	50	4.2m	AU	2.0	.80	15	15	174m	55	125	BB123a	MD128a		
32▼		DAC08-883AQ		8	M	AB		100m	135n	200m	50	4.2m	AU	2.0	.80	15	15	174m	55	125	BB37	DL47		
33♦		DAC08AQ		8	M	AB		100m	135n	200m	50	4.2m	AU	2.0	.80	15	15	174m	55	125	BB37	DL47		
34▼		DAC08HQ		8	M	AB		100m	135n	200m	50	4.2m	AU	2.0	.80	15	15	174m	0	70	BB37	DL47		
35▼		DAC3721-8		8	L	AC		100m	300n	50m	35 \$	2.0m	ABU	2.5	.50	15	15	525m	♦	0	70	BB111	MD103	
36▼		DAC372WB-8		8	L	AG		100m	950n	50m	35 \$	10	VBU	2.5	.50	15	15	525m	♦	0	70	BB112	MD103	
37▼		DAC372-8		8	L	AG		100m	5.0u	50m	35 \$	10	VBU	2.5	.50	15	15	525m	♦	0	70	BB112	MD103	
38▼		DAC372-8-G		8	L	AG		100m	5.0u	50m	35 \$	20	VB	2.5	.50	15	15	525m	♦	0	70	BB112	MD103	
39▼		DAC372WB-8-G		8	L	AG		100m	5.0u	50m	15 \$	20	VB	2.5	.50	15	15	525m	♦	0	70	BB112	MD103	
40▼		DAC82BM		8	M	BDM		160m	2.5u	200m	50	1.6m	ABU#	2.0	.80	15	15	375m	25	85	BB87	MD123		
41▼		DAC82SM		8	M	BDM		160m	2.5u	200m	35	1.6m	ABU#	2.0	.80	15	15	375m	55	125	BB87	MD123		
42▼		DAC08-883Q		8	M	AB		190m	135n	200m	50	4.2m	AU	2.0	.80	15	15	174m	55	125	BB37	DL47		
43♦		DAC08Q		8	M	AB		190m	135n	200m	50	4.2m	AU	2.0	.80	15	15	174m	55	125	BB37	DL47		
44♦		DAC08EQ		8	M	AB		190m	150n	200m	50	4.2m	AU	2.0	.80	15	15	174m	0	70	BB37	DL47		
45		SSS1408A6Q		8	M	A		190m	250n	200m	20	2.1m	AU	2.0	.80	15	5.0	265m	0	75	BB32	DL47		
46		SSS1408A7Q		8	M	A		190m	250n	200m	20	2.1m	AU	2.0	.80	15	5.0	265m	0	75	BB32	DL47		
47		SSS1408A8Q		8	M	A		190m	250n	200m	20	2.1m	AU	2.0	.80	15	5.0	265m	0	75	BB32	DL47		
48		SSS1508A8Q		8	M	A		190m	250n	200m	20	2.1m	AU	2.0	.80	15	5.0	265m	55	125	BB32	DL47		
49▼		AD559KD/BIN		8	M	A		190m	300n	190m	20	2.0m	AU	2.0	.80	15	5.0	280m	0	75	BB73	DL103		
50▼		AD559SD/BIN		8	M	A		190m	300n	190m	20	2.0m	AU	2.0	.80	15	5.0	280m	55	125	BB73	DL103		
51		DAC-IC8BC		8	M	AC		190m	300n	200m	20	2.0m	ABU			5.0	5.0	175m	0	70	BB24	DL7		
52		DAC-IC8BM		8	M	AC		190m	300n	200m	20	2.0m	ABU			5.0	5.0	175m	55	125	BB24	DL7		
53		MC1408L-8		8	M	A		190m\$	300n	200m	20	4.2m	AU	2.0	.80	15	5.0	305m	0	75	BB32	DL17b		
54		MC1508L-8		8	M	A		190m\$	300n	200m	20	4.2m	AU	2.0	.80	15	5.0	305m	55	125	BB32	DL17b		
55▼		4070		8	M	C		192m	750n	200m	120	20	VB	2.0	.80	15.3	15.3	1.5	0	70	BB124a	MD153		
56▼		DAC-HF8BGC		8	L	AC		200m	25n		20	10m	ABU	2.0	.80	15	15		0	70		MD19a		
57▼		DAC-HF8BMC		8	L	AC		200m	25n		20	10m	ABU	2.0	.80	15	15		0	70		MD11d		
58▼		DAC-HF8BMM		8	L	AC		200m	25n		20	10m	ABU	2.0	.80	15	15		55	125		MD11d		
59▼		DAC-HF8BMR		8	L	AC		200m	25n		20	10m	ABU	2.0	.80	15	15		25	85		MD11d		
60		DAC-HI8B		8	L	ACG		200m	25n		15	5.0m	ABU	2.0	.80	15	15	1.4	0	70	BB18a	MD36a		
61		DAC1106-001		8	L	BC		200m	60n	50m	10	5.0m	ABU	2.0	.80	15	15	1.2	0	70	BB49	MD36		
62▼		MDA-8F		8	L	AC		200m	60n	50m	25	4.7m	ABU	2.0	.80	15	15	1.8	0	70	BB80a	MD113		
63		DAC-HV8B100		8	L	A		200m	75n	400m	60	5.0	VU	2.0	.80	15	15	1.7	0	70	BB22	MD40		
64		DAC-HV8B100-EX		8	L	A		200m	75n	400m	60	5.0	VU	2.0	.80	15	15	1.7	25	85	BB22	MD40		
65▼		DAC-08BC		8	L	AC		200m	85n		10	2.0m	AU	2.0	.80	15	15		0	70		DL7		
66▼		DAC-08BM		8	L	AC		200m	85n		10	2.0m	AU	2.0	.80	15	15		55	125		DL7		
67▼		MN333		8	L	B		200m	100n	200m	400m\$	10	VU	2.0	.80	15	15	400m	0	70	BB127	MD146		
68▼		MN3015		8	L	ACI		200m	135n		800m\$	20	VB	2.0	.80	15	15	570m	0	70	BB131a	MD101b		
69▼		MN3015H		8	L	ACI		200m	135n		800m\$	20	VB	2.0	.80	15	15	570m	55	125	BB131a	MD101b		
70		DAC-E8-BIN		8	L	A		200m	150n	25m	15	2.0m	AU	2.0	.80	15	15	600m	0	70		MD7		
71		DAC-18B		8	L	ACG		200m	150n	25m	15	2.0m	ABU	2.0	.80	15								

11. D/A CONVERTERS

IN ORDER OF: (1)RESOLUTION (2)MAX.LIN. ERROR (3)MAX. SETTLING TIME & (4)TYPE NUMBER

LINE No.	TYPE NUMBER	RESOLUTION bits	TYPE OF CONV-ERT	INPUT ARITH. CODE OPTIONS	MAX. FSR LINEAR ERROR (%)	MAX. SETTLING TIME (s)	MAX. GAIN @ ACCUR (%)	TEMP DRIFT ppm/°C	OUTPUT MAX. VOLTAGE		INPUT LOGIC LEVEL		RATED PWR. SUPPLY		MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS	
									V-VOLT A-AMP	HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)	(-) (°C)		(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No.	
1	MN3020	8	L	BID	200m	3.0u	200m	800ms	20	VB	2.0	.70	15	15	830m	0	70	BB132	MD102b
2	MN3020H	8	L	BID	200m	3.0u	200m	800ms	20	VB	2.0	.70	15	15	830m	55	125	BB132	MD102b
3	DAC40-08U-CBI	8	L	B	200m	5.0u	10m	10	20	VBU	2.0	.80	15	15	1.3	0	70	BB3	MD5b
4	DAC50-08U-CBI	8	L	B	200m	5.0u	10m	15	20	VBU	2.0	.80	15	15	1.3	0	70	BB3	MD5b
5	DAC-8QM	8	L	AC	200m	5.0u	10m	7.0	20	VB	2.0	.80	15	15	1.6	0	70	BB77b	MD113
6	DAC-8QS	8	L	BD	200m	5.0u	10m	7.0	20	VB	2.0	.80	15	15	1.0	0	70	BB78b	MD112
7	DAC-8QS/ET	8	L	BD	200m	5.0u	10m	60	20	VB	2.0	.80	15	15	1.0	55	125	BB78b	MD112
8	DAC-29-8B	8	L	AG	200m	5.0u	200m	50	10	VBU	3.2	.80	15	15	375m	0	70	BB15b	MD33a
9	DAC-R8B	8	L	BD	200m	5.0u	10m	30	20	VBU	2.0	.80	15	15	1.3	0	70	BB27a	MD5e
10	DAC-TR8B	8	L	BD	200m	5.0u	10m	7.0	20	VBU	2.0	.80	15	15	1.3	0	70	BB27a	MD5e
11	DAC-8M	8	M	AC	200m	10u	200m	25	20	VB	2.0	.80	15	15	555m	0	70	BB81	MD112
12	411-8-BIN-V	8	L	A	200m	20u	200m	40	20	VBU	2.4	.80	15	15	600m	25	85	BB41	MD7
13	DAC-19-8B	8	L	AG	200m	20u	200m	50	10	VBU	3.2	.80	15	15	375m	0	70	BB15b	MD33a
14	MN328	8	L	A	200m	23u	200m	400ms	10	VU	2.0	.80	15	15	1.1	0	70	BB126	MD101b
15	MN328B	8	L	O	200m	23u	200m	400ms	10	VB	2.0	.80	15	15	1.1	0	70	BB126	MD101b
16	MN328BH	8	L	O	200m	23u	200m	400ms	10	VB	2.0	.80	15	15	1.1	55	125	BB126	MD101b
17	MN328H	8	L	A	200m	23u	200m	400ms	10	VU	2.0	.80	15	15	1.1	55	125	BB126	MD101b
18	MN3000	8	L	B	200m	23u	200m	400ms	10	VU	2.0	.80	15	15	585m	0	70	BB128a	MD146
19	MN3000H	8	L	B	200m	23u	200m	400ms	10	VU	2.0	.80	15	15	585m	55	125	BB128a	MD146
20	MN3001	8	L	O	200m	23u	200m	400ms	10	VB	2.0	.80	15	15	585m	0	70	BB128a	MD146
21	MN3001H	8	L	O	200m	23u	200m	400ms	10	VB	2.0	.80	15	15	585m	55	125	BB128a	MD146
22	MN3002	8	L	A	200m	23u	200m	400ms	10	VU	2.0	.80	15	15	585m	0	70	BB128a	MD146
23	MN3002H	8	L	A	200m	23u	200m	400ms	10	VU	2.0	.80	15	15	585m	55	125	BB128a	MD146
24	MN3010	8	L	F	200m	23u	200m	500ms	9.9	VU	2.0	.80	15	15	630m	0	70	BB130	MD146
25	MN3010H	8	L	F	200m	23u	200m	1.0 s	9.9	VU	2.0	.80	15	15	630m	55	125	BB130	MD146
26	MN3013	8	L	ACL	200m	30u	200m	800ms	20	VB	2.0	.80	15	15	570m	0	70	BB131	MD101b
27	MN335	8	L	O	200m	45u	200m	400ms	20	VB	2.0	.80	15	15	750m	0	70	BB128a	MD146
28	MN335H	8	L	O	200m	45u	200m	400ms	20	VB	2.0	.80	15	15	750m	55	125	BB128a	MD146
29	MN3006	8	L	O	200m	45u	200m	400ms	20	VB	2.0	.80	15	15	585m	0	70	BB128a	MD146
30	MN3006H	8	L	O	200m	45u	200m	400ms	20	VB	2.0	.80	15	15	585m	55	125	BB128a	MD146
31	DAC20-883AQ	8	M	E	250m	135n	500m	50	4.2m	AU	2.0	.80	15	15	194m	55	125	BB100	DL47
32	DAC20AQ	8	M	E	250m	135n	500m	50	4.2m	AU	2.0	.80	15	15	194m	55	125	BB100	DL47
33	DAC20EQ	8	M	E	250m	135n	500m	50	4.2m	AU	2.0	.80	15	15	194m	0	70	BB100	DL47
34	DAC08CQ	8	M	AB	390m	150n	200m	80	4.2m	AU	2.0	.80	15	15	174m	0	70	BB37	DL47
35	MC1408L-7	8	M	A	390ms	300nt	200m	20	4.2m	AU	2.0	.80	15	5.0	305m	0	75	BB32	DL17b
36	H11-1085	8	L	A	400ms	1.5u	200m	10	VBU	2.0	.80	15	5.0	200m	0	75	BB44	DL79	
37	H19-1085	8	L	A	400ms	1.5u	200m	10	VBU	2.0	.80	15	5.0	200m	0	75	BB44	FP20	
38	DAC20-08B-BOB	8	L	CK	400m	3.0u	400m	60	20	VB	2.0	.80	15	15	2.5	0	70	BB1	MD7
39	DAC20-08B-BTC	8	L	GK	400m	3.0u	400m	60	20	VB	2.0	.80	15	15	2.5	0	70	BB1	MD7
40	DAC20-08U-BOB	8	L	C	400m	3.0u	400m	60	20	VB	2.0	.80	15	15	2.5	0	70	BB1	MD7
41	DAC40-08B-BIN	8	L	AK	400m	7.0u	10m	10	20	VBU	2.0	.80	15	15	1.9	0	70	BB3	MD9d
42	DAC40-08B-BTC	8	L	GK	400m	7.0u	10m	10	20	VBU	2.0	.80	15	15	1.9	0	70	BB3	MD9d
43	DAC50-08B-BIN	8	L	AK	400m	7.0u	10m	15	20	VBU	2.0	.80	15	15	1.9	0	70	BB3	MD9d
44	DAC50-08B-BTC	8	L	GK	400m	7.0u	10m	15	20	VBU	2.0	.80	15	15	1.9	0	70	BB3	MD9d
45	DAC20-883Q	8	M	E	500m	150n	500m	80	4.2m	AU	2.0	.80	15	15	194m	55	125	BB100	DL47
46	DAC20CQ	8	M	E	500m	150n	500m	80	4.2m	AU	2.0	.80	15	15	194m	0	70	BB100	DL47
47	DAC20Q	8	M	E	500m	150n	500m	80	4.2m	AU	2.0	.80	15	15	194m	55	125	BB100	DL47
48	DAC-E8-BCD	8	L	E	500m	150n	25	15	1.2m	AU	2.0	.80	15	15	600m	0	70	BB20a	MD41
49	DAC-18D	8	L	E	500m	150n	25	15	1.2m	AU	2.0	.80	15	15	600m	0	70	BB15c	MD33a
50	DAC-19-8D1	8	L	A	500m	300n	200m	50	1.5m	AU	3.2	.80	15	5.0	305m	0	70	BB32	DL17b
51	MC3408L	8	M	A	500ms	300nt	500m	30	5.7	VB	2.0	.80	15	5.0	305m	0	70	BB32	DL17b
52	DAC371-2-BCD	8	L	E	500m	950nt	200m	20	2.0m	AU#	2.5	.50	0.0	15	150m	0	70	BB67	MD101
53	DAC-9-8D1	8	L	E	500m	1.0u	200m	100	2.6m	AU	3.2	.80	15	15	300m	0	70	BB15a	MD33b
54	DAC-9-8D1R	8	L	E	500m	1.0u	200m	100	2.6m	AU	3.2	.80	15	15	300m	0	70	BB15b	MD33b
55	DAC-29-8D	8	L	E	500m	5.0u	200m	50	10	VU	3.2	.80	15	15	375m	0	70	BB15c	MD33a
56	DAC-R8D	8	L	F	500m	5.0u	10m	30	10	VU	2.0	.80	15	15	1.3	0	70	BB27a	MD5e
57	DAC-TR8D	8	L	F	500m	5.0u	10m	7.0	10	VU	2.0	.80	15	15	1.3	0	70	BB27a	MD5e
58	DAC-19-8D	8	L	E	500m	20u	200m	50	10	VU	3.2	.80	15	15	375m	0	70	BB15c	MD33a
59	845-U5	8	L	A	500ms	26u	200m	80	5.0	VU	2.0	.50	15	15	1.1	20	85	BB13	MD22
60	845-B5	8	L	A	500ms	51u	200m	80	10	VB	2.0	.50	15	15	1.1	20	85	BB13	MD22
61	845-U10	8	L	A	500ms	51u	200m	80	10	VU	2.0	.50	15	15	1.1	20	85	BB13	MD22
62	845-B10	8	L	A	500ms	101u	200m	80	20	VB	2.0	.50	15	15	1.1	20	85	BB13	MD22
63	MC1408L-6	8	M	A	780ms	300nt	200m	20	4.2m	AU	2.0	.80	15	5.0	305m	0	75	BB32	DL17b
64	AD7530KD	9	M	B	100m	500nt	50m	10	20	VBU#	2.4	.80	0.0	15	20m	0	75	BB39	DL85
65	AD7530KN	9	M	B	100m	500nt	50m	10	20	VBU#	2.4	.80	0.0	15	20m	0	75	BB39	DL4b
66	DAC02BCX1	9	L	H	100m	1.5u	100m	60	20	VB	2.0	.80	15	15	300m	0	70	BB34	DL46
67	DAC02BCX2	9	L	H	100m	1.5u	100m	60	10	VB	2.0	.80	15	15	300m	0	70	BB34	DL46
68	DAC03BDX1	9	L	B	100m	1.5u	100m	60	10	VU	2.0	.80	15	15	350m	0	70	BB35	DL46
69	DAC03BDX2	9	L	B	100m	1.5u	100m	60	5	VU	2.0	.80	15	15	350m	0	70	BB35	DL46
70	DAC04BCX2	9	L	CGN	100m	1.5u	100m	90	10	VB	2.0	.80	15	15	350m	0	70	BB36	DL46
71	MN380	9	M	H	100m	23u	100m	200ms	13	VB	2.5	.80	15	15	750m	0	70	BB139	MD102c
72	MN380H	9	M	H	100m	23u	100m	300ms	13	VB	2.5	.80	15	15	750m	55	125	BB139	MD102c
73	2400	10	L	AC	25m	25n	50m	20	10m	ABU	2.0	.80	15	15	1.1	0	70	BB91	MD128
74	4023	10	L	AC	25m	25n	50m	40	10	VBU	2.0	.80	15	15	600m	0	70	BB122	MD150c
75	4061	10	L	AC	25m	85n	50m	25	10m	ABU	2.0	.80	15	15	1.0	0	70	BB123	MD128b
76	AD561K	10	L	A	25m	250nt	50m	30	2.4m	AUB	2.0	.80	15	5.0	280m	0	70	BB74	DL104
77	AD561T	10	L	A	25m	250nt	50m	30	2.4m	AUB	2.0	.80	15	5.0					

11. D/A CONVERTERS

IN ORDER OF: (1)RESOLUTION (2)MAX.LIN. ERROR
(3)MAX. SETTLING TIME & (4)TYPE NUMBER

LINE No.	TYPE NUMBER	RESOLUT-ION bits	TYPE OF CONV-ERT	INPUT ARITH. CODE OPTIONS	MAX. FSR LINEAR ERROR (%)	MAX. SETT-LING TIME (s)	MAX. GAIN @ ACCUR (%)	TEMP. DRIFT ppm/°C	OUTPUT RANGE		INPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. OPERATE. PWR. DISS. (W)		OPER. TEMP.		DRAWINGS	
									P-P	V-VOLT A-AMP	HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)	(-) (°C)	(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO		
1	DAC100ABQ2	10A	L	BD	50m	375n	50m	30	5.0	VBU	2.1	70	15	15	250m	25	85	BB38	DL47	
2	DAC100ACN9	10A	L	BD	50m	375n	50m	60	10	VBU	2.1	70	15	15	250m	25	85	BB101	FP20a	
3	DAC100ACQ1	10A	L	BD	50m	375n	50m	60	10	VBU	2.1	70	15	15	250m	25	85	BB38	DL47	
4	DAC100ACQ2	10A	L	BD	50m	375n	50m	60	5.0	VBU	2.1	70	15	15	250m	25	85	BB38	DL47	
5	DAC100ACQ3	10A	L	BD	50m	375n	50m	60	10	VBU	2.1	70	15	15	300m	0	70	BB38	DL47	
6	DAC100ACQ4	10A	L	BD	50m	375n	50m	60	5.0	VBU	2.1	70	15	15	300m	0	70	BB38	DL47	
7	AD7520LD	10	M	A	50m	500nt	50m	10	20	VBU	2.4	80	0.0	15	20mt	0	75	BB39	DL85	
8	AD7520UD	10	M	A	50m	500nt	50m	10	20	VBU	2.4	80	0.0	15	20mt	0	75	BB39	DL4b	
9	AD7520UD	10	M	A	50m	500nt	50m	10	20	VBU	2.4	80	0.0	15	20mt	55	125	BB39	DL85	
10	AD7522LD	10	M	BK	50m	500nt	50m	10	20	VBU	2.4	80	0.0	15	40m	0	75	BB47	DL12a	
11	AD7522LN	10	M	BK	50m	500nt	50m	10	20	VBU	2.4	80	0.0	15	40m	0	75	BB47	DL84	
12	AD7522UD	10	M	BK	50m	500nt	50m	10	20	VBU	2.4	80	0.0	15	40m	55	125	BB47	DL12a	
13	AD7530LD	10	M	B	50m	500nt	50m	10	20	VBU#	2.4	80	0.0	15	20mt	0	75	BB39	DL85	
14	AD7530LN	10	M	B	50m	500nt	50m	10	20	VBU#	2.4	80	0.0	15	20mt	0	75	BB39	DL4b	
15	DAC-10DF-48	10	L	CG	50m	500n	50m	50	†	VB	2.0	80	15	15	4.4	0	70	BB84	PC10a	
16	DAC-HA10BC	10	M	AC	50m	500nt		65	2.0m	AB	2.0	80	0.0	15		0	70		DL	
17	DAC-HA10BM	10	M	AC	50m	500nt		65	2.0m	AB	2.0	80	0.0	15		55	125		DL	
18	DAC-HA10BR	10	M	AC	50m	500nt		65	2.0m	AB	2.0	80	0.0	15		25	85		DL	
19	DAC372WB-10	10	L	AG	50m	950n	50m	15	†	VBU	2.5	50	15	15	525m†	0	70	BB112	MD103	
20	DAC372WB-10-G	10	L	AG	50m	950n	50m	15	†	VB	2.5	50	15	15	525m†	0	70	BB112	MD103	
21	DAC20-10B-USB	10	L	AK	50m	1.5u	50m	20	20	VU	2.0	80	15	15	2.5	0	70	BB1	MD7	
22	DAC20-10U-USB	10	L	A	50m	1.5u	50m	20	20	VU	2.0	80	15	15	2.5	0	70	BB1	MD7	
23	DAC331-10B-1	10	M	AC	50m	1.5u	50m	10	400u	AU	2.5	80	0.0	5.0	20m	55	125	BB39	DL61c	
24	DAC331-10B-2	10	M	AC	50m	1.5u	50m	10	400u	AU	2.5	80	0.0	15	20m	55	125	BB39	DL61c	
25	DAC331-10C-1	10	M	AC	50m	1.5u	50m	10	400u	AU	2.5	80	0.0	5.0	20m	55	125	BB39	DL61c	
26	DAC331-10C-2	10	M	AC	50m	1.5u	50m	10	400u	AU	2.5	80	0.0	15	20m	55	125	BB39	DL61c	
27	DAC316-10	10	M	AG	50m	2.0u	50m	15	20	VB	2.5	80	15	15	600m	0	70	BB62	MD99	
28	DAC40-10U-CBI	10	L	B	50m	5.0u	10m	10	20	VBU	2.0	80	15	15	1.3	0	70	BB3	MD5b	
29	DAC50-10U-CBI	10	L	B	50m	5.0u	10m	15	20	VBU	2.0	80	15	15	1.3	0	70	BB3	MD5b	
30	DAC372-10	10	L	AG	50m	5.0u	50m	15	†	VBU	2.5	50	15	15	525m†	0	70	BB112	MD103	
31	DAC372-10-G	10	L	AG	50m	5.0u	50m	15	†	VB	2.5	50	15	15	525m†	0	70	BB112	MD103	
32	DAC-10QM	10	L	AC	50m	5.0u	10m	7.0	20	VB	2.0	80	15	15	1.6	0	70	BB77a	MD113	
33	DAC-10QS	10	L	BD	50m	5.0u	10m	7.0	20	VB	2.0	80	15	15	1.0	0	70	BB78a	MD112	
34	DAC-10QS/ET	10	L	BD	50m	5.0u	10m	18	20	VB	2.0	80	15	15	1.0	55	125	BB78a	MD112	
35	DAC-10Z-1	10	L	B	50m	5.0ut	50m	30	10	VB	2.4	80	15	15	450m	0	70	BB48	MD75c	
36	DAC-10Z-3	10	L	B	50m	5.0ut	50m	30	20	VU	2.4	80	15	15	450m	0	70	BB48	MD75c	
37	DAC-49-10B	10	L	AG	50m	5.0u	100m	50	10	VBU	3.2	80	15	15	600m	0	70	BB15d	MD33	
38	DAC-R10B	10	L	BD	50m	5.0u	10m	30	20	VBU	2.0	80	15	15	1.3	0	70	BB27b	MD5f	
39	DAC-TR10B	10	L	BD	50m	5.0u	10m	7.0	20	VBU	2.0	80	15	15	1.3	0	70	BB27b	MD5f	
40	DAC347-10	10	L	B	50m	10u	10m	10	10	VU	2.0	80	15	15	405m	0	70	BB105	MD123a	
41	DAC347-10-G	10	L	D	50m	10u	10m	10	10	VB	2.0	80	15	15	405m	0	70	BB105a	MD123a	
42	DAC347-10-G-M/B	10	L	BD	50m	10u	10m	7.0	†	VB	2.0	80	15	15	405m	55	125	BB105a	MD123a	
43	DAC347-10-G-M/C	10	L	BD	50m	10u	10m	7.0	†	VB	2.0	80	15	15	405m	55	125	BB105a	MD123a	
44	DAC347-10-M/B	10	L	BD	50m	10u	10m	7.0	†	VU	2.0	80	15	15	405m	55	125	BB105	MD123a	
45	DAC347-10-M/C	10	L	BD	50m	10u	10m	7.0	†	VU	2.0	80	15	15	405m	55	125	BB105	MD123a	
46	DAC348-10	10	M	AG	50m	15u	10m	10	†	VB	2.0	80	15	15	155m	0	70	BB106	MD123a	
47	DAC348-10-M/B	10	M	AG	50m	15u	10m	7.0	†	VB	2.0	80	15	15	155m	55	125	BB106	MD123a	
48	DAC348-10-M/C	10	M	AG	50m	15u	10m	7.0	†	VB	2.0	80	15	15	155m	55	125	BB106	MD123a	
49	MN411	10	M	H	50m	15ut	50m	50ms	20	VB	2.0	80	15	5.0	550mt	0	70		MD57d	
50	MN411H	10	M	H	50m	15ut	50m	100ms	20	VB	2.0	80	15	5.0	550mt	55	125		MD57d	
51	411-10-BIN-V	10	L	A	50m	20u	50m	30	20	VBU	2.4	80	15	15	600m	25	85	BB41	MD7	
52	DAC347-LP-10	10	L	A	50m	20u	10m	30	10	VU	2.0	80	15	15	150m	0	70	BB105	MD123a	
53	DAC347-LP-10-G	10	L	D	50m	20u	10m	10	20	VB	2.0	80	15	15	150m	0	70	BB105a	MD123a	
54	DAC347-LP-10-G-M/B	10	L	BD	50m	20u	10m	7.0	†	VB	2.0	80	15	15	150m	55	125	BB105a	MD123a	
55	DAC347-LP-10-G-M/C	10	L	BD	50m	20u	10m	7.0	†	VB	2.0	80	15	15	150m	55	125	BB105a	MD123a	
56	DAC347-LP-10-M/B	10	L	BD	50m	20u	10m	7.0	†	VB	2.0	80	15	15	150m	55	125	BB105	MD123a	
57	DAC347-LP-10-M/C	10	L	BD	50m	20u	10m	7.0	†	VU	2.0	80	15	15	150m	55	125	BB105	MD123a	
58	MN3003	10	L	L	50m	23ut	50m	400ms	10	VU	2.0	80	15	15	585m	55	125	BB128	MD101b	
59	MN3003H	10	L	L	50m	23ut	50m	400ms	10	VU	2.0	80	15	15	585m	55	125	BB128	MD101b	
60	MN3004	10	L	O	50m	23ut	50m	400ms	10	VB	2.0	80	15	15	585m	0	70	BB128	MD101b	
61	MN3004H	10	L	O	50m	23ut	50m	400ms	10	VB	2.0	80	15	15	585m	55	125	BB128	MD101b	
62	MN3005	10	L	A	50m	23ut	50m	400ms	10	VU	2.0	80	15	15	585m	0	70	BB128	MD101b	
63	MN3005H	10	L	A	50m	23ut	50m	400ms	10	VU	2.0	80	15	15	585m	55	125	BB128	MD101b	
64	MN410	10	M	H	50m	45ut	50m	100ms	20	VB	2.0	80	15	15	600m	0	70	BB140	MD57d	
65	MN410H	10	M	H	50m	45ut	50m	100ms	20	VB	2.0	80	15	15	600m	55	125	BB140	MD57d	
66	MN3007	10	L	O	50m	45ut	50m	400ms	20	VB	2.0	80	15	15	585m	0	70	BB128	MD101b	
67	MN3007H	10	L	O	50m	45ut	50m	400ms	20	VB	2.0	80	15	15	585m	55	125	BB128	MD101b	
68	DAC380-10	10	L	A	50m	50u	20m	35	50m	AU	2.0	50	12	12	1.1	†	55	125	BB114	MD77
69	DAC380-10-MIL	10	L	A	50m	50u	20m	35	50m	AU	2.0	50	12	12	1.1	†	55	125	BB114	MD77
70	MC3410L	10	M	AE	50ms	50m	50m	20	5.0m	AU	2.0	80	0.0	18	380m	0	70	BB30	DL33	
71	MC3410P	10	M	AE	50ms	50m	50m	20	5.0m	AU	2.0	80	0.0	18	380m	0	70	BB30	DL33	
72	MC3510L	10	M	AE	50ms	50m	50m	20	5.0m	AU	2.0	80	0.0	18	380m	55	125	BB30	DL33	
73	MC3510P	10	M	AE	50ms	50m	50m	20	5.0m	AU	2.0	80	0.0	18	380m	55	125	BB30	DL33	
74	MN3100	10	M	H	50m	50m	50m	100ms	20	VB	3.5	1.0	15	15	230m	0	70	BB142	MD102b	
75	DAC-V10	10	L	AC	50ms	20	†	100m	15	15m	ABU		15	15	2.0	20	75	BB147	MD160b	
76	DA1201CD	10	L	A	97m	3.0u	97m	3.0u	20	VBU#	2.0	80	15	15	800m	55	125	BB72	MD110	
77	DA1201CN																			

11. D/A CONVERTERS

IN ORDER OF: (1)RESOLUTION (2)MAX.LIN. ERROR
(3)MAX. SETTLING TIME & (4)TYPE NUMBER

LINE No.	TYPE NUMBER	RESOLUTION bits	TYPE OF CONV-ERT	INPUT ARITH. CODE OPTIONS	MAX. FSR LINEAR ERROR (%)	MAX. SETTLING TIME (s)	MAX. GAIN @ ACCUR (%)	TEMP. DRIFT ppm/°C	OUTPUT V-RANGE		INPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS	
									P-P	V-A-AMP	HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)		(-) (°C)	(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO
1	DAC03ADX2	10	L	B	100m	1.5u	50m	60	5	VU	2.0	.80	15	15	350m	0	70	BB35	DL46
2	DAC04ACX2	10	L	CGN	100m	1.5u	50m	90	10	VB	2.0	.80	15	15	350m	0	70	BB36	DL46
3	DAC20-10B-BOB	10	L	CK	100m	3.0u	100m	30	20	VB	2.0	.80	15	15	2.5	0	70	BB1	MD7
4	DAC20-10B-BTC	10	L	GK	100m	3.0u	100m	30	20	VB	2.0	.80	15	15	2.5	0	70	BB1	MD7
5	DAC20-10U-BOB	10	L	C	100m	3.0u	100m	30	20	VB	2.0	.80	15	15	2.5	0	70	BB1	MD7
6	DAC40-10B-BIN	10	L	AK	100m	7.0u	10m	10	20	VBU	2.0	.80	15	15	1.9	0	70	BB3	MD9d
7	DAC40-10B-BTC	10	L	GK	100m	7.0u	10m	10	20	VBU	2.0	.80	15	15	1.9	0	70	BB3	MD9d
8	DAC50-10B-BIN	10	L	AK	100m	7.0u	10m	15	20	VBU	2.0	.80	15	15	1.9	0	70	BB3	MD9d
9	DAC50-10B-BTC	10	L	GK	100m	7.0u	10m	15	20	VBU	2.0	.80	15	15	1.9	0	70	bb3	MD9d
10	DAC371V-10	10	L	AC	100m	10u	50m	80	10	VBU	2.5	.50	15	15	525m	0	70	BB110	MD139
11	DAC371V-10-BCD	10	L	E	100m	10u	50m	80	10	VBU	2.5	.50	15	15	525m	0	70	BB110	MD139
12	MC3410CL	10	M	AE	100m	50m	100m	20	5.0m	AU	2.0	.80	0.0	18	380m	0	70	BB30	DL33
13	MC3410CP	10	M	AE	100m	50m	100m	20	5.0m	AU	2.0	.80	0.0	18	380m	0	70	BB30	DL30
14	NDAC-8-1	10	L		200m	75n	100m	10m	5.0	VU			15	15	7.6	55	85	BB56	MD96
15	NDAC-8-3	10	L		200m	75n	100m	10m	5.0	VU			15	15	7.6	0	70	BB56	MD96
16	DAC100CCN9	10	L	BD	200m	375n	50m	60	10	VBU	2.1	.70	15	15	250m	25	85	BB101	FP20a
17	DAC100CCQ1	10	L	BD	200m	375n	200m	60	10	VBU	2.1	.70	15	15	250m	25	85	BB38	DL47
18	DAC100CCQ2	10	L	BD	200m	375n	200m	60	5.0	VBU	2.1	.70	15	15	250m	25	85	BB38	DL47
19	DAC100CCQ3	10	L	BD	200m	375n	200m	60	10	VBU	2.1	.70	15	15	300m	0	70	BB38	DL47
20	DAC100CCQ4	10	L	BD	200m	375n	200m	60	5.0	VBU	2.1	.70	15	15	300m	0	70	BB38	DL47
21	AD7520JD	10	M	A	200m	500n	50m	10	20	VBU	2.4	.80	0.0	15	20m	0	75	BB39	DL85
22	AD7520JN	10	M	A	200m	500n	50m	10	20	VBU	2.4	.80	0.0	15	20m	0	75	BB39	DL4b
23	AD7520SD	10	M	A	200m	500n	50m	10	20	VBU	2.4	.80	0.0	15	20m	55	125	BB39	DL85
24	AD7522JD	10	M	BK	200m	500n	50m	10	20	VBU	2.4	.80	0.0	15	40m	0	75	BB47	DL12a
25	AD7522JN	10	M	BK	200m	500n	50m	10	20	VBU	2.4	.80	0.0	15	40m	0	75	BB47	DL84
26	AD7522SD	10	M	BK	200m	500n	50m	10	20	VBU	2.4	.80	0.0	15	40m	55	125	BB47	DL12a
27	DAC06-883AX	10	L	G	200m	1.5u	50m	60	10	VBU	2.0	.80	15	15	350m	55	125	BB99	DL46
28	DAC06AX	10	L	G	200m	1.5u	50m	60	10	VBU	2.0	.80	15	15	350m	55	125	BB99	DL46
29	DAC06EX	10	L	G	200m	1.5u	50m	100	10	VBU	2.0	.80	15	15	350m	0	70	BB99	DL46
30	DAC-V8	10	L	AC	200m	15	100m	30	15m	ABU			15	15	2.0	20	75	BB147	MD160b
31	DAC100DDN9	10	L	BD	300m	375n	50m	120	10	VBU	2.1	.70	15	15	250m	25	85	BB101	FP20a
32	DAC100DDQ1	10	L	BD	300m	375n	300m	120	10	VBU	2.1	.70	15	15	250	25	85	BB38	DL47
33	DAC100DDQ2	10	L	BD	300m	375n	300m	120	5.0	VBU	2.1	.70	15	15	250	25	85	BB38	DL47
34	DAC100DDQ3	10	L	BD	300m	375n	300m	120	10	VBU	2.1	.70	15	15	300	0	70	BB38	DL47
35	DAC100DDQ4	10	L	BD	300m	375n	300m	120	5.0	VBU	2.1	.70	15	15	300	0	70	BB38	DL47
36	DAC06-883BX	10	L	G	300m	1.5u	50m	90	10	VBU	2.0	.80	15	15	350m	55	125	BB99	DL46
37	DAC06BX	10	L	G	300m	1.5u	50m	90	10	VBU	2.0	.80	15	15	350m	55	125	BB99	DL46
38	DAC06FX	10	L	G	300m	1.5u	50m	100	10	VBU	2.0	.80	15	15	350m	0	70	BB99	DL46
39	DAC03DDX1	10	L	B	400m	1.5u	50m	60	10	VU	2.0	.80	15	15	350m	0	70	BB35	DL46
40	DAC03DDX2	10	L	B	400m	1.5u	50m	60	5.0	VU	2.0	.80	15	15	350m	0	70	BB35	DL46
41	DAC06-883CX	10	L	G	500m	1.5u	50m	120	10	VBU	2.0	.80	15	15	350m	55	125	BB99	DL46
42	DAC06CX	10	L	G	500m	1.5u	50m	120	10	VBU	2.0	.80	15	15	350m	55	125	BB99	DL46
43	DAC06GX	10	L	G	500m	1.5u	50m	100	10	VBU	2.0	.80	15	15	350m	0	70	BB99	DL46
44	ZD401	10	L	A	500m	2.0u		100	2.0m	AU	2.4	.70	0.0	15	150m	0	70	BB119	MD143
45	DAC3721-11	11	L	AC	25m	300n	50m	35	2.0m	ABU	2.5	.50	15	15	525m	0	70	BB111	MD103
46	DAC372WB-11	11	L	AG	25m	950n	50m	15	10	VBU	2.5	.50	15	15	525m	0	70	BB112	MD103
47	DAC372WB-11-G	11	L	AG	25m	950n	50m	15	20	VB	2.5	.50	15	15	525m	0	70	BB112	MD113
48	DAC316-11	11	M	AG	25m	2.0u	50m	15	20	VB	2.5	.80	15	15	600m	0	70	BB62	MD99
49	DAC372-11	11	L	AG	25m	5.0u	50m	15	10	VBU	2.5	.50	15	15	525m	0	70	BB112	MD103
50	DAC372-11-G	11	L	AG	25m	5.0u	50m	15	20	VB	2.5	.50	15	15	525m	0	70	BB112	MD103
51	EDAC-11-1	11	L	GN	25m	10u	25m	25	19	VB#			15	15	1.6	55	85		MD95
52	EDAC-11-3	11	L	GN	25m	10u	25m	25	19	VB#			15	15	1.6	0	70		MD95
53	DAC380-11	11	L	A	25m	50u	20m	35	5.0m	AU	2.0	.50	12	12	1.1	25	85	BB114	MD77
54	DAC380-11-MIL	11	L	A	25m	50u	20m	35	5.0m	AU	2.0	.50	12	12	1.1	55	125	BB114	MD77
55	MDA-11MF	11	M	AC	30m	1.0u	10m	25	4.0m	ABU	2.0	.80	15	15	600m	0	70	BB82	MD113
56	EDAC-10-1	11	L	GN	50m	10u	25m	50	19	VB#			15	15	1.6	55	85		MD95
57	EDAC-10-3	11	L	GN	50m	10u	25m	50	19	VB#			15	15	1.6	0	70		MD95
58	EDAC-9-1	11	L	GN	100m	10u	25m	75	19	VB#			15	15	1.6	55	85		MD95
59	EDAC-9-3	11	L	GN	100m	10u	25m	75	19	VB#			15	15	1.6	0	70		MD95
60	DAC05-883AX1	11	L	H	200m	1.5u	25m	60	20	VB	2.0	.80	15	15	350m	55	125	BB98	DL46
61	DAC05-883AX2	11	L	H	200m	1.5u	25m	60	10	VB	2.0	.80	15	15	350m	55	125	BB98	DL46
62	DAC05AX1	11	L	H	200m	1.5u	25m	60	20	VB	2.0	.80	15	15	350m	55	125	BB98	DL46
63	DAC05AX2	11	L	H	200m	1.5u	25m	60	10	VB	2.0	.80	15	15	350m	55	125	BB98	DL46
64	DAC05EX1	11	L	H	200m	1.5u	25m	100	20	VB	2.0	.80	15	15	350m	0	70	BB98	DL46
65	DAC05EX2	11	L	H	200m	1.5u	25m	100	10	VB	2.0	.80	15	15	350m	0	70	BB98	DL46
66	EDAC-8-1	11	L	GN	200m	10u	25m	100	19	VB#			15	15	1.6	55	85		MD95
67	EDAC-8-3	11	L	GN	200m	10u	25m	100	19	VB#			15	15	1.6	0	70		MD95
68	848-B5	11	L	C	250m	3.2u	50m	20	10	VB	2.0	.50	15	15	1.1	55	125	BB86	MD17
69	848-B10	11	L	C	250m	4.5u	50m	20	20	VB	2.0	.50	15	15	1.1	55	125	BB86	MD17
70	848-U10	11	L	C	250m	4.5u	50m	20	10	VU	2.0	.50	15	15	1.1	55	125	BB86	MD17
71	DAC05-883BX1	11	L	H	300m	1.5u	25m	90	20	VB	2.0	.80	15	15	350m	55	125	BB98	DL46
72	DAC05-883BX2	11	L	H	300m	1.5u	25m	90	10	VB	2.0	.80	15	15	350m	55	125	BB98	DL46
73	DAC05BX1	11	L	H	300m	1.5u	25m	90	20	VB	2.0	.80	15	15	350m	55	125	BB98	DL46
74	DAC05BX2	11	L	H	300m	1.5u	25m	90	10	VB	2.0	.80	15	15	350m	55	125	BB98	DL46
75	DAC05FX1	11	L	H	300m	1.5u	25m	100	20	VB	2.0	.80	15	15	350m	0	70	BB98	DL46
76	DAC05FX2	11	L	H	300m	1.5u	25m	100	10	VB	2.0	.80	15	15	350m	0	70	BB98	DL46
77	DAC05-883CX1	11	L	H	500m	1.5u	25m	120	20	VB	2.0	.80	15	15	350m	55	125	BB98	DL46
78	DAC05-883CX2	11	L	H	5														

11. D/A CONVERTERS

IN ORDER OF: (1)RESOLUTION (2)MAX.LIN. ERROR (3)MAX. SETTLING TIME & (4)TYPE NUMBER

LINE No.	TYPE NUMBER	RESOLUTION bits	TYPE OF CONV-ERT	INPUT ARITH. CODE OPTIONS	MAX. FSR LINEAR ERROR (%)	MAX. SETTLING TIME (s)	MAX. GAIN ACCUR (%)	TEMP. DRIFT ppm/°C	OUTPUT MAX. RANGE		INPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. OPERATE PWR. DISS. (W)		OPER. TEMP.		DRAWINGS	
									P-P V-VOLT	A-VOLT	HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)	(-) (°C)	(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No.		
																			Δ=MO	
1▼	ADH-030-12-1	12	L	BD	12m	50n	100m	25	16	ABU	.96	1.65	15	15	1.6	0	70	BB117	MD11f	
2▼	ADH-030-12-3	12	L	BD	12m	50n	100m	25	16	ABU	.96	1.65	15	15	1.6	55	70	BB117	MD11f	
3▼	DAC395-12A	12	L	AC	12m	50n	50m	15	5.0m	ABU	2.5	.50	15	15	900m	0	70	BB116	MD135	
4▼	DAC395-12A-MIL	12	L	AC	12m	50n	50m	15	5.0m	ABU	2.5	.50	15	15	900m	55	125	BB116	MD135	
5▼	DAC-HF12BGC	12	L	AC	12m	50n	20	10m	ABU	2.0	.80	0.0	15		0	70		MD19a		
6▼	DAC-HF12BMC	12	L	AC	12m	50n	20	10m	ABU	2.0	.80	0.0	15		0	70		MD11d		
7▼	DAC-HF12BMM	12	L	AC	12m	50n	20	10m	ABU	2.0	.80	0.0	15		55	125		MD11d		
8▼	DAC-HF12BMR	12	L	AC	12m	50n	20	10m	ABU	2.0	.80	0.0	15		25	85		MD11d		
9	DAC-HI12B	12	L	ACG	12m	50n	25m	20	5.0m	ABU	2.0	.80	15	15	900m	0	70	BB20	MD38	
10▼	DAC-LGI-12-1	12	L	AC	12m	50n	100m	100	16m	ABU	2.0	.80	15	15	5.9	55	85	BB144a	MD160	
11▼	DAC-LGI-12-3	12	L	AC	12m	50n	100m	100	16m	ABU	2.0	.80	15	15	5.9	0	70	BB144a	MD160	
12	DAC1108	12	L	BC	12m	150n	10m	30	5.0m	ABU	2.5	.50	15	15	780m	0	70	BB50	MD74	
13	DAC-E12-BIN	12	L	A	12m	150n	25m	15	2.0m	AU	2.0	.80	15	15	600m	0	70		MD7	
14	DAC-112B	12	L	ACG	12m	150n	25m	15	2.0m	ABU	2.0	.80	15	15	600m	0	70	BB20a	MD41	
15	411-12-BIN-I	12	L	A	12m	300n	12m	20	2.0m	ABU	2.4	.80	15	15	450m	25	85	BB41	MD7	
16	DAC80-CBI-I	12	L	B	12m	300n	12m	30	2.0m	ABU	2.0	.80	15	15	850m	0	70	BB7	MD12	
17	DAC85-CBI-I	12	L	B	12m	300n	12m	20	2.0m	ABU	2.0	.80	15	15	850m	25	85	BB7	MD11	
18	DAC85C-CBI-I	12	L	B	12m	300n	12m	20	2.0m	ABU	2.0	.80	15	15	850m	0	70	BB7	MD11	
19	DAC85LD-CBI-I	12	L	B	12m	300n	12m	10	2.0m	ABU	2.0	.80	15	15	850m	25	85	BB7	MD11	
20	DAC372I-3-BCD	12	L	E	12m	300n	50m	15	2.0m	ABU	2.5	.50	15	15	525m	0	70	BB111	MD103	
21	DAC372I-12	12	L	AC	12m	300n	50m	15	2.0m	ABU	2.5	.50	15	15	525m	0	70	BB111	MD103	
22	DAC-69-12B1	12	L	AG	12m	300n	25m	50	2.5m	ABU	3.2	.80	15	15	600m	0	70	BB15f	MD33	
23	DAC-HA12BC	12	M	AC	12m	500n	10	2.0m	AB	2.0	.80	0.0	15		0	70		DL7		
24	DAC-HA12BM	12	M	AC	12m	500n	10	2.0m	AB	2.0	.80	0.0	15		55	125		DL7		
25	DAC-HA12BR	12	M	AC	12m	500n	10	2.0m	AB	2.0	.80	0.0	15		25	85		DL7		
26	DAC-LG-12-1	12	L	AC	12m	500n	50m	25	10	VBU	15	.50	15	15	5.9	55	85	BB144	MD160	
27	DAC-LG-12-3	12	L	AC	12m	500n	50m	25	10	VBU	15	.50	15	15	5.9	0	70	BB144	MD160	
28	DAC-S-C-CBI-I	12	L	BD	12m	500n	10m	15	2.0m	ABU	2.0	.80	15	15	850m	0	70	BB7	MD11f	
29	DAC-S-C-CCD-I	12	L	F	12m	500n	10m	15	2.0m	AU	2.0	.80	15	15	850m	0	70	BB7	MD11f	
30	DAC-S-CBI-I	12	L	BD	12m	500n	10m	20	2.0m	ABU	2.0	.80	15	15	850m	25	85	BB7	MD11f	
31	DAC-S-CCD-I	12	L	F	12m	500n	10m	20	2.0m	AU	2.0	.80	15	15	850m	25	85	BB7	MD11f	
32	DAC-S-C-CCD-I	12	L	F	12m	500n	10m	20	2.0m	AU	2.0	.80	15	15	850m	25	85	BB7	MD11f	
33	DAC-SC-CBI-I	12	L	F	12m	500n	10m	15	2.0m	AU	2.0	.80	15	15	850m	0	70	BB7	MD11f	
34	DAC-SC-CCD-I	12	L	F	12m	500n	10m	20	2.0m	AU	2.0	.80	15	15	850m	25	85	BB7	MD11f	
35	DAC-DG12B1	12	L	AC	12m	600n		35	20	VB	2.0	.80	15	15	0	70		MD7		
36	DAC-DG12B2	12	L	G	12m	600n		35	20	VB	2.0	.80	15	15	0	70		MD7		
37	4072	12	M	C	12m	750n	12m	30	20	VB	2.0	.80	15.3	15.3	1.5	0	70	BB124	MD153	
38	DAC372WB-3-BCD	12	L	E	12m	950n	50m	15	10	VU	2.5	.50	15	15	525m	0	70	BB112	MD103	
39	DAC372WB-3-BCD-G	12	L	E	12m	950n	50m	15	10	VU	2.5	.50	15	15	525m	0	70	BB112	MD103	
40	DAC372WB-12	12	L	AG	12m	950n	50m	15	10	VBU	2.5	.50	15	15	525m	0	70	BB112	MD103	
41	DAC372WB-12-G	12	L	AG	12m	950n	50m	15	10	VBU	2.5	.50	15	15	525m	0	70	BB112	MD103	
42	877-801	12	L	BDM	12m	1.0u	10m	30	2.0m	ABU	2.0	.40	15	15	850m	0	70	BB11a	MD19	
43	877-851-D1	12	L	BDM	12m	1.0u	10m	20	2.0m	ABU	2.0	.40	15	15	850m	25	85	B11a	MD18a	
44	AD563J/BIN	12	L	A	12m	1.2u	12m	30	5.0m	ABU	2.0	.80	15	15	675m	0	70	BB46	DL82	
45	AD563K/BIN	12	L	A	12m	1.2u	12m	20	5.0m	ABU	2.0	.80	15	15	675m	0	70	BB46	DL82	
46	AD563S/BIN	12	L	A	12m	1.2u	12m	30	5.0m	ABU	2.0	.80	15	15	675m	55	125	BB46	DL82	
47	AD563T/BIN	12	L	A	12m	1.2u	12m	10	5.0m	ABU	2.0	.80	15	15	675m	55	125	BB46	DL82	
48	A862-12	12	L	BD	12m	1.5u	10m	10	2.0m	AU	2.0	.80	15	15	1.2	25	85	BB97	MD133	
49	DAC391-12	12	M	AC	12m	1.5u	10m	20	5.0m	ABU	2.0	.80	15	15	1.2	0	70	BB115	MD11e	
50	DAC391B-12	12	M	AC	12m	1.5u	10m	20	5.0m	ABU	2.0	.80	15	15	1.2	55	100	BB115	MD11e	
51	DAC391C-12	12	M	AC	12m	1.5u	10m	20	5.0m	ABU	2.0	.80	15	15	1.2	25	85	BB115	MD11e	
52	877-151	12	L	BDM	12m	2.0u	10m	10	2.0m	ABU	2.4	.40	15	15	950m	55	125	B11a	MD18a	
53	DAC20-12B-BCD	12	L	EK	12m	2.0u	12m	20	20	VU	2.0	.80	15	15	2.5	0	70	BB1	MD7	
54	DAC20-12U-BCD	12	L	E	12m	2.0u	12m	20	20	VU	2.0	.80	15	15	2.5	0	70	BB1	MD7	
55	DAC316-12	12	M	AG	12m	2.0u	50m	15	20	VB	2.5	.80	15	15	600m	0	70	BB62	MD99	
56	DAC345I-12-BP	12	L	D	12m	2.0u	10m	2.0	2.0m	AB	2.0	.80	15	15	675m	0	70	BB68	MD101a	
57	DAC345I-12-UP	12	L	B	12m	2.0u	10m	2.0	2.0m	AB	2.0	.80	15	15	675m	0	70	BB68	MD101a	
58	MN311	12	L	E	12m	2.0u	12m	1.0	1.0	VU	3.0	1.0	15	15	275m	0	70	BB133	MD101b	
59	MN311H	12	L	E	12m	2.0u	12m	1.0	1.0	VU	3.0	1.0	15	15	275m	55	125	BB133	MD101b	
60	MN312	12	L	A	12m	2.0u	12m	1.0	1.0	VU	3.0	1.0	15	15	275m	0	70	BB133	MD101b	
61	MN312H	12	L	A	12m	2.0u	12m	1.0	1.0	VU	3.0	1.0	15	15	275m	55	125	BB133	MD101b	
62	MN312R	12	L	A	12m	2.0u	12m	1.0	1.0	VU	3.0	1.0	15	15	275m	0	55	BB133	MD101b	
63	DAC20-12U-USB	12	L	A	12m	2.5u	12m	15	20	VU	2.0	.80	15	15	2.5	0	70	BB1	MD7	
64	DA1200CN	12	L	A	12m	3.0u	12m	30	20	VBU	2.0	.80	15	15	800m	55	125	BB72	DL101	
65	DAC80-CBI-V	12	L	B	12m	3.0u	12m	30	20	VB	2.0	.80	15	15	850m	0	70	BB7	MD12	
66	DAC85-CBI-V	12	L	B	12m	3.0u	12m	20	20	VB	2.0	.80	15	15	850m	25	85	BB7	MD11	
67	DAC85C-CBI-V	12	L	B	12m	3.0u	12m	20	20	VB	2.0	.80	15	15	850m	0	70	BB7	MD11	
68	DAC85C																			

11. D/A CONVERTERS

IN ORDER OF: (1)RESOLUTION (2)MAX.LIN. ERROR
(3)MAX. SETTLING TIME & (4)TYPE NUMBER

LINE No.	TYPE NUMBER	RESOLUTION bits	TYPE OF CONV.	INPUT ARITH. CODE OPTIONS	MAX. FSR LINEAR ERROR (%)	MAX. SETTLING TIME @ ACCUR. (%)	MAX. GAIN DRIFT ppm/°C	OUTPUT RANGE		INPUT LOGIC LEVEL		RATED PWR. SUPPLY		MAX. OPERATE PWR. DISS.		OPER. TEMP.		DRAWINGS	
								P-P V-VOLT A-AMP	HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)	(-) (°C)	(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO			
1	DAC85-CCD-V	12	L	F	12m	5.0u	12m	20	VU	2.0	.80	15	15	850m	25	85	BB7	MD11	
2	DAC85-CCD-V#	12	L	F	12m	5.0u	10m	20	VU	2.0	.80	15	15	850m	55	125	BB7	MD19d	
3	DAC85C-CBI-I#	12	L	BD	12m	5.0u	10m	20	2.0m	ABU	2.0	.80	15	15	850m	25	85	BB7	MD19d
4	DAC85C-CBI-V#	12	L	BD	12m	5.0u	10m	20	VB	2.0	.80	15	15	850m	25	85	BB7	MD19d	
5	DAC85C-CCD-I#	12	L	F	12m	5.0u	10m	20	1.2m	AU	2.0	.80	15	15	850m	25	85	BB7	MD19d
6	DAC85C-CCD-V#	12	L	F	12m	5.0u	10m	20	10	VU	2.0	.80	15	15	850m	25	85	BB7	MD19d
7	DAC335-3D	12	L	F	12m	5.0u	10m	20	10	VU	2.0	.80	15	15	300mt	55	125	BB104	MD11e
8	DAC335-12	12	L	BD	12m	5.0u	10m	20	10	VB	2.0	.80	15	15	300mt	55	125	BB104	MD11e
9	DAC335B-3D	12	L	F	12m	5.0u	10m	20	10	VU	2.0	.80	15	15	300mt	55	125	BB104	MD11e
10	DAC335B-12	12	L	BD	12m	5.0u	10m	20	10	VB	2.0	.80	15	15	300mt	55	125	BB104	MD11e
11	DAC346V-12-BP	12	L	D	12m	5.0u	10m	2.0	10	VB	2.0	.80	15	15	625m	0	70	BB69	MD102
12	DAC346V-12-BP-G	12	L	D	12m	5.0u	10m	2.0	10	VB	2.0	.80	15	15	625m	0	70	BB69	MD102
13	DAC346V-12-UP	12	L	D	12m	5.0u	10m	2.0	10	VU	2.0	.80	15	15	625m	0	70	BB69	MD102
14	DAC372-3-BCD	12	L	E	12m	5.0u	50m	15	15	VU	2.5	.50	15	15	525m	0	70	BB112	MD103
15	DAC372-3-BCD-G	12	L	E	12m	5.0u	50m	15	15	VU	2.5	.50	15	15	525m	0	70	BB112	MD103
16	DAC372-12	12	L	AG	12m	5.0u	50m	15	15	VBU	2.5	.50	15	15	525m	0	70	BB112	MD103
17	DAC372-12-G	12	L	AG	12m	5.0u	50m	15	15	VBU	2.5	.50	15	15	525m	0	70	BB112	MD103
18	DAC-120Z/BIN	12	L	BC	12m	5.0u	10m	30	20	VBU	2.0	.80	15	15	1.3	0	70	BB2	MD5f
19	DAC-R12B	12	L	BD	12m	5.0u	10m	30	20	VBU	2.0	.80	15	15	1.3	0	70	BB27	MD5g
20	DAC-S-CBI-V	12	L	BD	12m	5.0u	10m	15	10	VBU	2.0	.80	15	15	850m	0	70	BB7	MD11f
21	DAC-S-C-CCD-V	12	L	F	12m	5.0u	10m	15	10	VU	2.0	.80	15	15	850m	0	70	BB7	MD11f
22	DAC-S-CBI-V	12	L	F	12m	5.0u	10m	20	10	VBU	2.0	.80	15	15	850m	25	85	BB7	MD11f
23	DAC-S-CCD-V	12	L	F	12m	5.0u	10m	20	10	VU	2.0	.80	15	15	850m	25	85	BB7	MD11f
24	DAC-SC-CCD-V	12	L	F	12m	5.0u	10m	15	10	VU	2.0	.80	15	15	850m	0	70	BB7	MD11f
25	DAC-SC-CBI-V	12	L	BD	12m	5.0u	10m	20	10	VBU	2.0	.80	15	15	850m	25	85	BB7	MD11f
26	DAC-SC-CCD-V	12	L	BD	12m	5.0u	10m	20	10	VU	2.0	.80	15	15	850m	25	85	BB7	MD11f
27	DAC-TR12B	12	L	F	12m	5.0u	10m	7.0	20	VBU	2.0	.80	15	15	1.3	0	70	BB27	MD5a
28	DAC-TR12D	12	L	F	12m	5.0u	10m	7.0	10	VU	2.0	.80	15	15	1.3	0	70	BB27	MD5a
29	MN3850	12	L	BD	12m	5.0u	10m	300m	20	VB	2.0	.80	15	15	525mt	0	70	BB96a	MD19d
30	MN3850E	12	L	BD	12m	5.0u	10m	300m	20	VB	2.0	.80	15	15	525mt	25	85	BB96a	MD19d
31	MN3850H	12	L	BD	12m	5.0u	10m	300m	20	VB	2.0	.80	15	15	525mt	55	125	BB96a	MD19d
32	MN3860	12	L	BD	12m	5.0u	10m	300m	20	VB	2.0	.80	15	15	675mt	0	70	BB96a	MD19d
33	MN3860E	12	L	BD	12m	5.0u	10m	300m	20	VB	2.0	.80	15	15	675mt	25	85	BB96a	MD19d
34	MN3860H	12	L	BD	12m	5.0u	10m	300m	20	VB	2.0	.80	15	15	675mt	55	125	BB96a	MD19d
35	4039QZ	12	L	BD	12m	7.0u	12m	30	20	VBU	2.0	.80	15	15	900m	0	70	BB78	MD150
36	MN360	12	L	D	12m	7.0u	12m	100m	20	VB	2.5	.40	15	15	870m	0	70	BB134	MD102b
37	MN360H	12	L	D	12m	7.0u	12m	250m	20	VB	2.5	.40	15	15	870m	55	125	BB134	MD102b
38	MN362	12	L	B	12m	7.0u	12m	100m	10	VU	2.5	.40	15	15	870m	0	70	BB134	MD102b
39	MN362H	12	L	B	12m	7.0u	12m	250m	10	VU	2.5	.40	15	15	870m	55	125	BB134	MD102b
40	MN415	12	L	BP	12m	7.0u	12m	100m	20	VB	2.4	.80	15	15	750m	0	70	BB136a	MD147
41	MN415H	12	L	BP	12m	7.0u	12m	100m	20	VB	2.4	.80	15	15	750m	55	125	BB136a	MD147
42	MN416	12	L	AO	12m	7.0u	12m	100m	20	VB	2.4	.80	15	15	1.1	0	70	BB136	MD147
43	MN416H	12	L	AO	12m	7.0u	12m	100m	20	VB	2.4	.80	15	15	1.1	55	125	BB136	MD147
44	DAC347-12	12	L	A	12m	10u	10m	10	VU	2.0	.80	15	15	405m	0	70	BB105a	MD123a	
45	DAC347-12-G	12	L	D	12m	10u	10m	10	VU	2.0	.80	15	15	405m	0	70	BB105a	MD123a	
46	DAC347-12-G-M/B	12	L	BD	12m	10u	10m	.35	20	VB	2.0	.80	15	15	405m	55	125	BB105a	MD123a
47	DAC347-12-G-M/C	12	L	BD	12m	10u	10m	.35	20	VB	2.0	.80	15	15	405m	55	125	BB105a	MD123a
48	DAC347-12-M/B	12	L	BD	12m	10u	10m	.35	10	VU	2.0	.80	15	15	405m	55	125	BB105	MD123a
49	DAC347-12-M/C	12	L	BD	12m	10u	10m	.35	10	VU	2.0	.80	15	15	405m	55	125	BB105	MD123a
50	DAC1125	12	M	BCG	12m	10u	10m	10	22	VBU#	2.0	.70	15	15	405m	0	70	BB51	MD75
51	DAC348-12	12	M	AG	12m	15u	10m	8.0	20	VB	2.0	.80	15	15	155m	0	70	BB106	MD123a
52	DAC348-12-M/B	12	M	AG	12m	15u	10m	.35	20	VB	2.0	.80	15	15	155m	55	125	BB106	MD123a
53	DAC348-12-M/C	12	M	AG	12m	15u	10m	.35	20	VB	2.0	.80	15	15	155m	55	125	BB106	MD123a
54	DAC349-3D	12	L	E	12m	15u	10m	25	10	VU	2.5	.80	15	15	300mt	0	70	BB107	MD19c
55	DAC349-12	12	L	AC	12m	15u	10m	25	20	VB	2.5	.80	15	15	300mt	0	70	BB107	MD19c
56	DAC349B-3D	12	L	E	12m	15u	10m	25	10	VU	2.5	.80	15	15	300mt	55	125	BB107	MD19c
57	DAC349B-12	12	L	AC	12m	15u	10m	25	20	VB	2.5	.80	15	15	300mt	55	125	BB107	MD19c
58	DAC349C-3D	12	L	E	12m	15u	10m	25	10	VU	2.5	.80	15	15	300mt	25	85	BB107	MD19c
59	DAC349C-12	12	L	AC	12m	15u	10m	25	20	VB	2.5	.80	15	15	300mt	25	85	BB107	MD19c
60	DAC347-LP-12	12	L	B	12m	20u	10m	10	VU	2.0	.80	15	15	150m	0	70	BB105	MD123a	
61	DAC347-LP-12-G	12	L	D	12m	20u	10m	10	VU	2.0	.80	15	15	150m	0	70	BB105	MD123a	
62	DAC347-LP-12-G-M/B	12	L	BD	12m	20u	10m	.35	20	VB	2.0	.80	15	15	150m	55	125	BB105a	MD123a
63	DAC347-LP-12-G-M/C	12	L	BD	12m	20u	10m	.35	20	VB	2.0	.80	15	15	150m	55	125	BB105a	MD123a
64	DAC347-LP-12-M/B	12	L	BD	12m	20u	10m	.35	10	VU	2.0	.80	15	15	150m	55	125	BB105	MD123a
65	DAC347-LP-12-M/C	12	L	BD	12m	20u	10m	.35	10	VU	2.0	.80	15	15	150m	55	125	BB105	MD123a
66	DAC-69-12B	12	L	AG	12m	20u	25m	50	10	VBU	3.2	.80	15	15	600m	0	70	BB15f	MD33
67	411-12-BIN-V	12	L	A	12m	25u	12m	20	20	VBU	2.4	.80	15	15	600m	25	85	BB41	MDZ
68	DAC365-12	12	M	AC	12m	25u	100m	2.0	20	VB	2.0	.80	15	15	1.3	55	125	BB65	MD75g
69	MN371	12	L	B	12m	35u	12m	500m	10	VU	2.0	.80	15	15	90m	0	70	BB135	MD102b
70	MN371H	12	L	B	12m	35u	12m	500m	10	VU	2.0	.80	15	15	90m	55	125	BB135	MD102b
71	MN3210	12	L	BI	12m	35u	12m	300m	10	VU	2.0	.80	15	15	1.1	0	70	BB137	MD102b
72	MN3211	12	L	O	12m	35u	12m	300m	20	VB	2.0	.80	15	15	1.1	0	70	BB137	MD102b
73	MN3212	12	L	FS	12m	35u	12m	300m	10	VU	2.0	.80	15	15	1.1	0	70	BB137	MD102b
74	MN412	12	M	H	12m	45u	12m	24m	20	VB	2.5	.80	15	15	700m	0	70	BB141	MD57e
75	MN412H	12	M	H	12m	45u	12m	30m	20	VB	2.5	.80	15	15	700m	55	125	BB141	MD57e
76	MN370	12	L	D	12m	70u	12m	500m	20	VB	2.0	.80	15	15	90m	0	70	BB135	MD102b
77	MN370H	12	L	D															

11. D/A CONVERTERS

IN ORDER OF: (1)RESOLUTION (2)MAX.LIN. ERROR
(3)MAX. SETTLING TIME & (4)TYPE NUMBER

LINE No.	4	TYPE NUMBER	1 RESOLUTION bits	TYPE OF CONV	INPUT ARITH. CODE OPTIONS	2 MAX. FSR LINEAR ERROR (%)	3 MAX. SETTLING TIME @ ACCUR (%)	MAX. GAIN TEMP. DRIFT ppm/°C	OUTPUT MAX. RANGE		INPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. OPERATE PWR. DISS.		OPER. TEMP.		DRAWINGS	
									P-P V-VOLT	A-AMP	HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)	(-)	(+)	LOGIC DWG. No.	OUTLINE DWG. No.		
1		ADH-030-11-1	12	L	BD	25m	50n	100m	25	16	ABU	.96	1.65	15	15	1.6	0	70	BB117	MD11f
2		ADH-030-11-3	12	L	BD	25m	50n	100m	25	16	ABU	.96	1.65	15	15	1.6	55	85	BB117	MD11f
3		DAC395-12B	12	L	AC	25m	50n	50m	15	5.0m	ABU	2.5	.50	15	15	900m	0	70	BB116	MD135
4		DAC395-12B-MIL	12	L	AC	25m	50n	50m	15	5.0m	ABU	2.5	.50	15	15	900m	55	125	BB116	MD135
5		DAC-LG-11-1	12	L	AC	25m	50n	100m	100	16m	ABU			15	15	5.9	55	85	BB144a	MD160
6		DAC-LG-11-3	12	L	AC	25m	50n	100m	100	16m	ABU			15	15	5.9	0	70	BB144a	MD160
7		DAC85E-CBI-1	12	L	BDM	25m	300n	10m	20	2.0m	ABU	2.0	.80	15	15	850m	55	125	BB7c	MD11
8		DAC-LG-11-1	12	L	AC	25m	500n	50m	25	10	VBU			15	15	5.9	55	85	BB144	MD160
9		DAC-LG-11-3	12	L	AC	25m	500n	50m	25	10	VBU			15	15	5.9	0	70	BB144	MD160
10		877-851-D2	12	L	BDM	25m	1.0u	10m	20	2.0m	ABU	2.0	.40	15	15	850m	25	85	BB11a	MD18a
11		2012	12	M	AC	25m	1.0u	17	20	VB	2.0	.80	15	15	2.6	0	70	BB89	MD126	
12		DAC3731-12	12	L	A	25m	2.0u	50m	30	2.0m	AU	2.5	.50	15	15	450m	0	70	BB113	MD57b
13		DAC20-12U-B0B	12	L	C	25m	2.5u	25m	20	20	VB	2.0	.80	15	15	2.5	0	70	BB1	MD7
14		877-85V-D2	12	L	BDM	25m	5.0u	10m	20	20	VBU	2.0	.40	15	15	850m	25	85	BB11	MD18a
15		DAC20-12B-B0B	12	L	CK	25m	5.0u	25m	20	20	VB	2.0	.80	15	15	2.5	0	70	BB1	MD7
16		DAC20-12B-BTC	12	L	GK	25m	5.0u	25m	20	20	VB	2.0	.80	15	15	2.5	0	70	BB1	MD7
17		DAC85E-CBI-V	12	L	BDM	25m	5.0u	10m	20	20	VBU	2.0	.80	15	15	850m	55	125	BB7a	MD11
18		DAC40-12B-BIN	12	L	AK	25m	7.0u	10m	7.0	20	VBU	2.0	.80	15	15	1.9	0	70	BB3	MD9d
19		DAC40-12B-BTC	12	L	GK	25m	7.0u	10m	7.0	20	VBU	2.0	.80	15	15	1.9	0	70	BB3	MD9d
20		DAC50-12B-BIN	12	L	AK	25m	7.0u	10m	12	20	VBU	2.0	.80	15	15	1.9	0	70	BB3	MD9d
21		DAC50-12B-BTC	12	L	GK	25m	7.0u	10m	12	20	VBU	2.0	.80	15	15	1.9	0	70	BB3	MD9d
22		770-712	12	M	ACGN	25m	1.0u	25m	2.0m	20	VB	2.0	.60	22	22	2.6	0	50	BB120	MD145
23		ADH-030-10-1	12	L	BD	50m	50n	100m	50	16	ABU	.96	1.65	15	15	1.6	0	70	BB117	MD11f
24		ADH-030-10-3	12	L	BD	50m	50n	100m	50	16	ABU	.96	1.65	15	15	1.6	55	85	BB117	MD11f
25		DAC395-12C	12	L	AC	50m	50n	50m	15	5.0m	ABU	2.5	.50	15	15	900m	0	70	BB116	MD135
26		DAC395-12C-MIL	12	L	AC	50m	50n	50m	15	5.0m	ABU	2.5	.50	15	15	900m	0	70	BB116	MD135
27		DAC921LG	12	L	M	50m	50n	50m	15	5.0m	ABU	2.5	.50	15	15	900m	55	125	BB116	MD135
28		DAC921TG	12	M	B	50m	50n	12m	10	2.0m	ABU	2.0	.80	0.0	15	30m	0	75	BB88	DL110
29		DAC-LGI-10-1	12	L	AC	50m	50n	100m	100	16m	ABU			15	15	5.9	55	85	BB144a	MD160
30		DAC-LGI-10-3	12	L	AC	50m	50n	100m	100	16m	ABU			15	15	5.9	0	70	BB144a	MD160
31		DAC-E12-BCD	12	L	E	50m	150n	25m	15	1.2m	AU	2.0	.80	15	15	600m	0	70	BB20a	MD41
32		DAC-112D	12	L	E	50m	150n	25m	15	1.2m	AU	2.0	.80	15	15	600m	0	70	BB20a	MD41
33		411-12-BCD-I	12	L	E	50m	300n	12m	30	1.2m	AU	2.4	.80	15	15	450m	25	85	BB41	MD7
34		DAC80-CCD-I	12	L	F	50m	300n	12m	30	2.0m	ABU	2.0	.80	15	15	850m	0	70	BB7	MD12
35		DAC85-CCD-I	12	L	F	50m	300n	12m	20	2.0m	ABU	2.0	.80	15	15	850m	25	85	BB7	MD11
36		DAC85C-CCD-I	12	L	F	50m	300n	12m	20	2.0m	ABU	2.0	.80	15	15	850m	0	70	BB7	MD11
37		DAC-49-12D1	12	L	E	50m	300n	100m	50	2.5m	AU	3.2	.80	15	15	600m	0	70	BB15e	MD33
38		AD7521LD	12	M	A	50m	500n	50m	10	20	VBU	2.4	.80	0.0	15	20m	0	75	BB39a	DL86
39		AD7521LN	12	M	A	50m	500n	50m	10	20	VBU	2.4	.80	0.0	15	20m	0	75	BB39a	DL5b
40		AD7521UD	12	M	A	50m	500n	50m	10	20	VBU	2.4	.80	0.0	15	20m	55	125	BB39a	DL86
41		DAC-HA12DC	12	M	E	50m	500n	10	2.0m	AB	2.0	.80	0.0	15		0	70		DL7	
42		DAC-HA12DM	12	M	E	50m	500n	10	2.0m	AB	2.0	.80	0.0	15		55	125		DL7	
43		DAC-HA12DR	12	M	E	50m	500n	10	2.0m	AB	2.0	.80	0.0	15		25	85		DL7	
44		DAC-LG-10-1	12	L	AC	50m	500n	50m	50	10	VBU			15	15	5.9	55	85	BB144	MD160
45		DAC-LG-10-3	12	L	AC	50m	500n	50m	50	10	VBU			15	15	5.9	0	70	BB144	MD160
46		AD563/BCD	12	L	E	50m	1.2u	12m	30	5.0m	ABU	2.0	.80	15	15	675m	0	70	BB46	DL82
47		AD563K/BCD	12	L	E	50m	1.2u	12m	20	5.0m	ABU	2.0	.80	15	15	675m	0	70	BB46	DL82
48		AD563S/BCD	12	L	E	50m	1.2u	12m	30	5.0m	ABU	2.0	.80	15	15	675m	55	125	BB46	DL82
49		AD563T/BCD	12	L	E	50m	1.2u	12m	10	5.0m	ABU	2.0	.80	15	15	675m	55	125	BB46	DL82
50		DAC316-3-BCD	12	M	E	50m	2.0u	50m	10	2.0m	VB	2.5	.80	15	15	600m	0	70	BB62	MD99
51		DAC345I-10-BP	12	L	D	50m	2.0u	10m	2.0	1.0m	IB	2.0	.80	15	15	675m	0	70	BB68	MD101a
52		DAC345I-10-UP	12	L	D	50m	2.0u	10m	2.0	1.0m	AU	2.0	.80	15	15	675m	0	70	BB68	MD101a
53		DAC3731-3-BCD	12	L	E	50m	2.0u	50m	30	1.2m	AU	2.5	.50	15	15	450m	0	70	BB113	MD57b
54		DAC80-CCD-V	12	L	F	50m	3.0u	12m	30	10	VU	2.0	.80	15	15	850m	0	70	BB7	MD12
55		AD562KD/BCD	12	M	E	50m	3.5u	12m	3.0	20	VBU	2.0	.80	15	15	525m	0	70	BB45	DL81
56		DAC40-12U-CCD	12	L	F	50m	5.0u	10m	7.0	10	VU	2.0	.80	15	15	1.3	0	70	BB3	MD5b
57		DAC50-12U-CCD	12	L	F	50m	5.0u	10m	12	10	VU	2.0	.80	15	15	1.3	0	70	BB3	MD5b
58		DAC346V-10-BP	12	L	D	50m	5.0u	10m	2.0	10	VB	2.0	.80	15	15	625m	0	70	BB69	MD102
59		DAC346V-10-BP-G	12	L	D	50m	5.0u	10m	2.0	10	VB	2.0	.80	15	15	625m	0	70	BB69	MD102
60		DAC346V-10-UP	12	L	D	50m	5.0u	10m	2.0	10	VB	2.0	.80	15	15	625m	0	70	BB69	MD102
61		DAC-12QZ/BCD	12	L	F	50m	5.0u	10m	30	20	VBU			15	15	1.0	0	70	BB2	MD5i
62		DAC-49-12D	12	L	F	50m	5.0u	100m	50	10	VU	3.2	.80	15	15	600m	0	70	BB15e	MD33
63		DAC-R12D	12	L	F	50m	5.0u	10m	30	10	VU	2.0	.80	15	15	1.3	0	70	BB27	MD5g
64		DAC40-12B-BCD	12	L	EK	50m	7.0u	10m	10	10	VU	2.0	.80	15	15	1.9	0	70	BB3	MD9d
65		DAC50-12B-BCD	12	L	EK	50m	7.0u	10m	15	10	VU	2.0	.80	15	15	1.9	0	70	BB3	MD9d
66		411-12-BCD-V	12	L	E	50m	2.0u													

11. D/A CONVERTERS

IN ORDER OF: (1)RESOLUTION (2)MAX.LIN. ERROR
(3)MAX. SETTLING TIME & (4)TYPE NUMBER

LINE No.	TYPE NUMBER	RESOLUTION bits	TYPE OF CONV-ERT	INPUT ARITH. CODE OPTIONS	MAX. FSR LINEAR ERROR (%)	MAX. SETTLING TIME (s)	MAX. GAIN @ ACCUR (%)	TEMP. DRIFT ppm/°C	OUTPUT MAX. RANGE		INPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. OPER. PWR. DISS. (W)	OPER. TEMP.		DRAWINGS	
									P-P V-VOLT A-AMP	HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)	(-) (°C)		(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO	
1▼	RDAC-12-3	13	M	GN	12m	4.0u	10m	2.0m	20	VB			15	15	2.5	0	70	BB149	MD160a
2▼	DAC-M-12-1	13	M	GN	12m	10u	10m	1.0m	20	VB			15	15	2.8	55	85	BB145	MD160a
3▼	DAC-M-12-3	13	M	GN	12m	10u	10m	1.0m	20	VB			15	15	2.8	0	70	BB145	MD160a
4	UDAC-12-1	13	L	A	12m	10u		10	20	VB#			15	15	1.6	55	85	BB57	MD97
5	UDAC-12-3	13	L	A	12m	10u		10	20	VB#			15	15	1.6	0	70	BB57	MD97
6▼	DAC-M-11-1	13	M	GN	24m	10u	10m	2.0m	20	VB			15	15	2.8	55	85	BB145	MD160a
7▼	DAC-M-11-3	13	M	GN	24m	10u		2.0m	20	VB			15	15	2.8	0	70	BB145	MD160a
8	UDAC-11-1	13	L	A	24m	10u		20	20	VB#			15	15	1.6	55	85	BB57	MD97
9	UDAC-11-3	13	L	A	24m	10u		20	20	VB#			15	15	1.6	0	70	BB57	MD97
10	ADAC-3BCD	13	M	E	25m			2.0	80	VB			15	15	1.6	0	50	BB61	MD93a
11	HDAC-11-1	13	L	GN	25m	1.0u	6.0m	25	19	VB#			15	15	2.8	55	85		MD95a
12	HDAC-11-3	13	L	GN	25m	1.0u	6.0m	25	19	VB#			15	15	2.8	0	70		MD95a
13♦	SDAC-11-1	13	L	G	25m	1.6u		15	20	VB			15	15	1.2	55	85		DL17
14♦	SDAC-11-3	13	L	G	25m	1.6u		15	20	VB			15	15	1.2	0	70		DL17
15▼	DDAC-11-1-2CM	13	L	G	25m	1.8u	6.0m	15	20	VB			15	15	6.9	55	85	BB148	PC14
16▼	DDAC-11-3-2CM	13	L	G	25m	1.8u	6.0m	15	20	VB			15	15	6.9	0	70	BB148	PC14
17▼	RDAC-11-1	13	M	GN	25m	4.0u	10m	2.0m	20	VB			15	15	2.5	55	85	BB149	MD160a
18▼	RDAC-11-3	13	M	GN	25m	4.0u	10m	2.0m	20	VB			15	15	2.5	0	70	BB149	MD160a
19	BDAC-H-1	13	L	E	25m	10u	12m	20	20	VBU#			15	15	2.0	55	85	BB55	MD94
20	BDAC-H-3	13	L	E	25m	10u	12m	20	20	VBU#			15	15	2.0	0	70	BB55	MD94
21♦	877-69C-D1	13	M	CG	25m	20u	100m	20	20	VBU#	2.0	.80	15	15	575m	55	125	BB12	MD17
22♦	877-69M-D1	13	M	CG	25m	20u	100m	20	20	VBU#	2.0	.80	15	15	575m	55	125	BB12	MD17
23	HDAC-10-1	13	L	GN	50m	1.0u	6.0m	50	19	VB#			15	15	2.8	55	85		MD95a
24	HDAC-10-3	13	L	GN	50m	1.0u	6.0m	50	19	VB#			15	15	2.8	0	70		MD95a
25♦	SDAC-10-1	13	L	G	50m	1.6u		15	20	VB			15	15	1.2	55	85		DL17
26♦	SDAC-10-3	13	L	G	50m	1.6u		15	20	VB			15	15	1.2	0	70		DL17
27▼	DDAC-10-1-2CM	13	L	G	50m	1.8u	6.0m	15	20	VB			15	15	6.9	55	85	BB148	PC14
28▼	DDAC-10-3-2CM	13	L	G	50m	1.8u	6.0m	15	20	VB			15	15	6.9	0	70	BB148	PC14
29▼	RDAC-10-1	13	M	GN	50m	4.0u	10m	6.0m	20	VB			15	15	2.5	55	85	BB149	MD160a
30▼	RDAC-10-3	13	M	GN	50m	4.0u	10m	6.0m	20	VB			15	15	2.5	0	70	BB149	MD160a
31	BDAC-L-1	13	L	E	50m	10u	12m	20	20	VBU#			15	15	2.0	55	85	BB55	MD94
32	BDAC-L-3	13	L	E	50m	10u	12m	20	20	VBU#			15	15	2.0	0	70	BB55	MD94
33	HDAC-9-1	13	L	GN	100m	1.0u	6.0m	75	19	VB#			15	15	2.8	55	85		MD95a
34	HDAC-9-3	13	L	GN	100m	1.0u	6.0m	75	19	VB#			15	15	2.8	0	70		MD95a
35♦	877-69C-D2	13	M	CG	100m	20u	100m	20	20	VBU#	2.0	.80	15	15	575m	55	125	BB12	MD17
36♦	877-69M-D2	13	M	CG	100m	20u	100m	20	20	VBU#	2.0	.80	15	15	575m	55	125	BB12	MD17
37▼	2470	14	L	BD	700n	3.0m	14	2.0m	ABU	2.0	.80		15	15	925m	0	70	BB92	MD129
38▼	2471	14	L	BD	700n	3.0m	10	2.0m	ABU	2.0	.80		15	15	925m	0	70	BB92	MD129
39	DAC-HR14B	14	L	ACG	3.0m	1.0u	1.5m	5.0	2.0m	ABU	2.0	.80	15	15	975m	0	70	BB21	MD39
40▼	DAC355-14	14	L	AC	3.0m	10u	10m	7.0	20	VB#	2.4	.80	15	15	540m	0	70	BB108	MD137
41	A867-14	14	L	BDG	3.0m	30u	1.5m	3.0	8.0m	VB#	2.5	.80	15	15	1.1	25	85	BB58	MD9q
42	414-BIN	14	L	AC	3.0m	100u	2.0m	7.0	20	VB#			15	15	750m	25	85	BB43	MD68
43▼	DAC-14QM	14	L	BDF	3.0m	250u	1.5m	7.0	20	VB#	2.0	.80	15	15	950m	0	70	BB79	MD113
44▼	DAC-M-14-1	14	M	GN	3.1m	10u	10m	500u	20	VB			15	15	2.8	55	85	BB145	MD160a
45▼	DAC-M-14-3	14	M	GN	3.1m	10u	10m	500u	20	VB			15	15	2.8	0	70	BB145	MD160a
46▼	UDAC-14-1	14	L	A	3.1m	10u		5.0	20	VB#			15	15	1.6	55	85	BB57a	MD97a
47	UDAC-14-3	14	L	A	3.1m	10u		5.0	20	VB#			15	15	1.6	0	70	BB57a	MD97a
48▼	DAC-HA14BC	14	M	AC	6.0m	500nt		10	2.0m	AB	2.0	.80	0.0	15	0	0	70		DL17
49▼	DAC-HA14BM	14	M	AC	6.0m	500nt		10	2.0m	AB	2.0	.80	0.0	15	0	0	70		DL17
50▼	DAC-HA14BR	14	M	AC	6.0m	500nt		10	2.0m	AB	2.0	.80	0.0	15	0	0	70		DL17
51▼	DAC-U-11-1	14	M	AC	100m	20u	10m	1.5m	20	VB			15	15	900m	55	125	BB146	MD11f
52▼	DAC-U-11-3	14	M	AC	100m	20u	10m	1.5m	20	VB			15	15	900m	0	70	BB146	MD11f
53▼	DAC-U-12-1	14	M	AC	100m	20u	10m	1.0m	20	VB			15	15	900m	55	125	BB146	MD11f
54▼	DAC-U-12-3	14	M	AC	100m	20u	10m	1.0m	20	VB			15	15	900m	0	70	BB146	MD11f
55	DAC-HR15B	15	L	ACG	1.5m	10u	1.5m	5.0	2.0m	ABU	2.0	.80	15	15	975m	0	70	BB21	MD39
56	DAC-HR16B	16	L	ACG	750u	10u	1.5m	5.0	2.0m	ABU	2.0	.80	15	15	975m	0	70	BB21	MD39
57▼	MN3300	16	L	EF	750u	35u	750u	300m	10	VU	2.0	.80	15	15	420m	0	70	BB138	DL20b
58▼	DAC355-4-BCD	16	L	E	1.5m	10u	10m	5.0	10	VB#	2.4	.80	15	15	540m	0	70	BB108	MD137
59▼	DAC355-16	16	L	AC	1.5m	10u	10m	5.0	10	VB#	2.4	.80	15	15	540m	0	70	BB108	MD137
60	A867-16	16	L	BDG	1.5m	30u	1.5m	1.0	8.0m	VB#	2.5	.80	15	15	1.1	25	85	BB58	MD9a
61▼	DAC-16QM	16	L	BDF	1.5m	250u	1.5m	7.0	20	VB#	2.0	.80	15	15	950m	0	70	BB79	MD113
62	418-BIN	16	L	AC	2.0m	100u	2.0m	7.0	20	VB#			15	15	750m	25	85	BB43	MD68
63▼	DAC-HP16BMC	16	L	BD	3.0m	35u		15	10	VBU	2.0	.80	15	15		55	125		MD11d
64▼	DAC-HP16BMM	16	L	BD	3.0m	35u		15	10	VBU	2.0	.80	15	15		25	85		MD11d
65▼	DAC-HP16BMR	16	L	BD	3.0m	35u		15	10	VBU	2.0	.80	15	15		25	85		MD11d
66	DAC45-CBI	16	L	F	3.0m	50u		3.0m	7.0	20	VBU		15	15	1.9	0	70	BB4	MD9e
67	DAC45-CCD	16	L	F	3.0m	50u		3.0m	7.0	10	VU		15	15	1.9	0	70	BB4	MD9e
68♦	DAC70-CBI	16	L	BD	3.0m	50u	750u	7.0	2.0m	ABU	2.0	.80	15	15	1.0	25	85	BB6	MD11
69♦	DAC70-CCD	16	L	F	3.0m	50u	750u	7.0	2.0m	ABU	2.0	.80	15	15	1.0	25	85	BB6	MD11
70	DAC-169-16B1	16	L	AG	5.0m	750u	5.0m	10	2.0m	ABU	2.0	.80	15	15	750m	0	70	BB16	MD34
71	DAC-169-16D1	16	L	E	5.0m	750u	5.0m	10	1.2m	AU	2.0	.80	15	15	750m	0	70	BB16a	MD34a
72▼	DAC-HP16DMC	16	L	F	5.0m	15u		15	10	VU	2.0	.80	15	15		0	70		MD11d
73▼	DAC-HP16DMM	16	L	F	5.0m	15u		15	10	VU	2.0	.80	15	15		55	125		MD11d
74▼	DAC-HP16DMR	16	L	F	5.0m	15u		15	10	VU	2.0	.80	15	15		25	85		MD11d
75	DAC-169-16B	16	L	AG	5.0m	30u	5.0m	15	10	VBU	2.0	.80	15	15	750m	0	70	BB16	MD34
76	DAC-169-16D	16	L	E	5.0m	30u	5.0m	15	10	VU	2.0	.80	15	15	750m	0	70	BB16a	MD34a
77▼	DAC70C-CBI	16	L	BD	5.0m	50u	750u	14	2.0m	ABU	2.0	.80	15	15	1.0	0	70	BB6	MD11
78▼	DAC70C-CCD	16	L	F	5.0m	50u	750u	14	2.0m	ABU	2.0	.80	15	15	1.0	0	70	BB6	MD11
79	418-BCD	16	L	E	5.0m	100u	2.0m	7.0	10	VU#			15	15	750m	25	85	BB43	MD68
80</																			

12. LOGIC LEVEL CONVERTERS/LEVEL TRANSLATORS

IN ORDER OF: (1)FROM LOGIC (2)TO LOGIC
(3)CKTS. PER DEVICE & (4)TYPE NUMBER

LINE No.	TYPE NUMBER	CONVERTS		LOGIC FUNCT CODE	No. LOG INP CKT	MIN. OUTPUT SINK CURRENT	T E C H N	INPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. PROP. DELAY tpd (s)	MAX. OPERATE. PWR. DISS. (W)	OPER. TEMP.		DRAWINGS			
		FROM	TO					HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)			(-) (°C)	(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO		
																		CKTS per DEV	LOGIC INP CKT
1▼	CM4041AD	C	DT	4	NIV	1	8.0m	.50	CMS	9.99	.01%	0.0	10	75n	200m	55	125	BC29	DL16j
2▼	CM4041AE	C	DT	4	NIV	1	8.0m	.50	CMS	9.99	.01%	0.0	10	100n	200m	40	85	BC29	DL16j
3▼	HEF4041P	C	DT	4	NIV	1	2.0m	.50	CMS	7.0	3.0	0.0	10	20nt	400m	40	85	BC29	DL3e
4▼	CD4009UBD	C	DT	6	INV	1	24m	1.5	CMS	12	3.0	0.0	15	60n	500m	55	125	BC27	Δ001AE
5▼	CD4009UBE	C	DT	6	INV	1	24m	1.5	CMS	12	3.0	0.0	15	60n	500m	40	85	BC27	Δ001AC
6▼	CD4009UBF	C	DT	6	INV	1	24m	1.5	CMS	12	3.0	0.0	15	60n	500m	55	125	BC27	Δ001AC
7▼	CD4009UBK	C	DT	6	INV	1	24m	1.5	CMS	12	3.0	0.0	15	60n	500m	55	125	BC27	CH8p
8▼	CD4010BD	C	DT	6	INV	1	24m	1.5	CMS	12	3.0	0.0	15	60n	500m	55	125	BC27	Δ004AG
10▼	CD4010BE	C	DT	6	INV	1	24m	1.5	CMS	11	4.0	0.0	15	70n	500m	55	125	BC28	Δ001AE
11▼	CD4010BF	C	DT	6	INV	1	24m	1.5	CMS	11	4.0	0.0	15	70n	500m	40	85	BC28	Δ001AC
12▼	CD4010BH	C	DT	6	INV	1	24m	1.5	CMS	11	4.0	0.0	15	70n	500m	55	125	BC28	Δ001AC
13▼	CD4010BK	C	DT	6	INV	1	24m	1.5	CMS	11	4.0	0.0	15	70n	500m	55	125	BC28	CH8p
14▼	CD4049UBD	C	DT	6	INV	1	24m	1.5	CMS	11	4.0	0.0	15	70n	500m	55	125	BC28	Δ001AG
15▼	CD4049UBE	C	DT	6	INV	1	24m	1.5	CMS	12	3.0	0.0	15	50n	500m	55	125	AA5	Δ001AE
16▼	CD4049UBF	C	DT	6	INV	1	24m	1.5	CMS	12	3.0	0.0	15	50n	500m	40	85	AA5	Δ001AC
17▼	CD4049UBH	C	DT	6	INV	1	24m	1.5	CMS	12	3.0	0.0	15	50n	500m	55	125	AA5	Δ001AC
18▼	CD4049UBK	C	DT	6	INV	1	24m	1.5	CMS	12	3.0	0.0	15	50n	500m	55	125	AA5	CH8q
19▼	CD4050BD	C	DT	6	INV	1	24m	1.5	CMS	11	4.0	0.0	15	60n	500m	55	125	AA6	Δ004AG
20▼	CD4050BE	C	DT	6	INV	1	24m	1.5	CMS	11	4.0	0.0	15	60n	500m	40	85	AA6	Δ001AE
21▼	CD4050BF	C	DT	6	INV	1	24m	1.5	CMS	11	4.0	0.0	15	60n	500m	55	125	AA6	Δ001AC
22▼	CD4050BH	C	DT	6	INV	1	24m	1.5	CMS	11	4.0	0.0	15	60n	500m	55	125	AA6	CH8q
23▼	CD4050BK	C	DT	6	INV	1	24m	1.5	CMS	11	4.0	0.0	15	60n	500m	55	125	AA6	Δ004AG
24▼	CM4009AD	C	DT	6	INV	1	8.0m	.50	CMS	9.99	.01%	0.0	10	55n	200m	55	125	BC27	DL47d
25▼	CM4009AE	C	DT	6	INV	1	8.0m	.50	CMS	9.99	.01%	0.0	10	55n	200m	40	85	BC27	DL47d
26▼	CM4010AD	C	DT	6	INV	1	8.0m	.50	CMS	9.99	.01%	0.0	10	70n	200m	55	125	BC28	DL47d
27▼	CM4010AE	C	DT	6	INV	1	8.0m	.50	CMS	9.99	.01%	0.0	10	70n	200m	40	85	BC28	DL47d
28▼	CM4049AD	C	DT	6	INV	1	8.0m	.50	CMS	9.99	.01%	0.0	10	55n	200m	55	125	AA5	DL47d
29▼	CM4049AE	C	DT	6	INV	1	8.0m	.50	CMS	9.99	.01%	0.0	10	55n	200m	40	85	AA5	DL47d
30▼	CM4050AD	C	DT	6	INV	1	8.0m	.50	CMS	9.99	.01%	0.0	10	85n	200m	55	125	AA6	DL47d
31▼	CM4050AE	C	DT	6	INV	1	8.0m	.50	CMS	9.99	.01%	0.0	10	85n	200m	40	85	AA6	DL47d
32▼	HEF4049P	C	DT	6	INV	1	2.0m	.50	CMS	7.0	3.0	0.0	10	55n	400m	40	85	BC57	DL4g
33▼	HEF4050P	C	DT	6	INV	1	2.0m	.50	CMS	7.0	3.0	0.0	10	55n	400m	40	85	BC58	DL4g
34	SCL4009AC	C	DT	6	INV	1	35m	1.5	CMS	15t	0.01%	0.0	15	28nt	300m	55	125	BC27	DL87
35	SCL4009AD	C	DT	6	INV	1	35m	1.5	CMS	15t	0.01%	0.0	15	28nt	300m	55	125	BC27	DL87a
36	SCL4009AE	C	DT	6	INV	1	35m	1.5	CMS	15t	0.01%	0.0	15	28nt	300m	40	85	BC27	DL87b
37	SCL4009AF	C	DT	6	INV	1	35m	1.5	CMS	15t	0.01%	0.0	15	28nt	300m	55	125	BC27	FP23
38	SCL4009AH	C	DT	6	INV	1	35m	1.5	CMS	15t	0.01%	0.0	15	28nt	300m	55	125	BC27	CHZ
39	SCL4010AC	C	DT	6	INV	1	35m	1.5	CMS	15t	0.01%	0.0	15	28nt	300m	55	125	BC28	DL87
40	SCL4010AD	C	DT	6	INV	1	35m	1.5	CMS	15t	0.01%	0.0	15	28nt	300m	55	125	BC28	DL87a
41	SCL4010AE	C	DT	6	INV	1	35m	1.5	CMS	15t	0.01%	0.0	15	28nt	300m	40	85	BC28	DL87b
42	SCL4010AF	C	DT	6	INV	1	35m	1.5	CMS	15t	0.01%	0.0	15	28nt	300m	55	125	BC28	FP23
43	SCL4010AH	C	DT	6	INV	1	35m	1.5	CMS	15t	0.01%	0.0	15	28nt	300m	55	125	BC28	CHZ
44	SCL4049AC	C	DT	6	INV	1	40m	1.5	CMS	15t	0.01%	0.0	15	28nt	300m	55	125	AA5	DL87
45	SCL4049AD	C	DT	6	INV	1	40m	1.5	CMS	15t	0.01%	0.0	15	28nt	300m	55	125	AA5	DL87a
46	SCL4049AE	C	DT	6	INV	1	40m	1.5	CMS	15t	0.01%	0.0	15	28nt	300m	40	85	AA5	DL87b
47	SCL4049AF	C	DT	6	INV	1	40m	1.5	CMS	15t	0.01%	0.0	15	28nt	300m	55	125	AA5	FP23
48	SCL4049AH	C	DT	6	INV	1	40m	1.5	CMS	15t	0.01%	0.0	15	28nt	300m	55	125	AA5	CHZ
49	SCL4050AC	C	DT	6	INV	1	40m	1.5	CMS	15t	0.01%	0.0	15	30nt	300m	55	125	AA6	DL87
50	SCL4050AD	C	DT	6	INV	1	40m	1.5	CMS	15t	0.01%	0.0	15	30nt	300m	55	125	AA6	DL87a
51	SCL4050AE	C	DT	6	INV	1	40m	1.5	CMS	15t	0.01%	0.0	15	30nt	300m	40	85	AA6	DL87b
52	SCL4050AF	C	DT	6	INV	1	40m	1.5	CMS	15t	0.01%	0.0	15	30nt	300m	55	125	AA6	FP23
53	SCL4050AH	C	DT	6	INV	1	40m	1.5	CMS	15t	0.01%	0.0	15	30nt	300m	55	125	AA6	CHZ
54▼	#uPD4049C	C	DT	6	INV	1	16m	.50	CMS	9.9	.01%	0.0	10	55n	200m	40	85	BC27	Δ001AC
55▼	#uPD4050C	C	DT	6	INV	1	16m	.50	CMS	9.9	.01%	0.0	10	85n	200m	40	85	BC28	Δ001AC
56▼	CD4041UBD	C	T	4	NIV	1	19m	1.5	CMS	12	3.0	0.0	15	50n	500m	55	125	BC29	Δ001AD
57▼	CD4041UBE	C	T	4	NIV	1	19m	1.5	CMS	12	3.0	0.0	15	50n	500m	40	85	BC29	Δ001AB
58▼	CD4041UBF	C	T	4	NIV	1	19m	1.5	CMS	12	3.0	0.0	15	50n	500m	55	125	BC29	Δ001AB
59▼	CD4041UBH	C	T	4	NIV	1	19m	1.5	CMS	12	3.0	0.0	15	50n	500m	55	125	BC29	CH8r
60▼	CD4041UBK	C	T	4	NIV	1	19m	1.5	CMS	12	3.0	0.0	15	50n	500m	55	125	BC29	Δ004AF
61▼	MC691L.P%	CDT	H	6	INV	1	10m	.50	DTL	2.0t	1.0t	0.0	20	500n	500m	30	75	BC43	T0116
62▼	I413	D	B	6	NAIV	1	50m	4.5	DTL	4.5	0.01%	0.0	5.0	150nt	550m	0	70	PCZ	PCZ
63▼	I416	D	H	24	INV	1	20m	1.0	TTL	30Δ	0.01%	0.0	5.0	5.0	450m	0	70	PCZ	PCZ
64▼	MC1017P	D	K	2	AND	4	2.5m	-.70	ECL	1.9t	1.0t	5.2	5.0	20n	105m	0	75	BC44	T0116
65▼	MC1217F	D	K	2	AND	4	2.5m	-.70	ECL	2.0t	1.0t	5.2	5.0	20n	105m	55	125	BC44	T086
66▼	MC1217L	D	K	2	AND	4	2.5m	-.70	ECL	2.0t	1.0t	5.2	5.0	20n	105m	55	125	BC44	T0116
67▼	I403	D	M	5	INV	1	20m	.30	DTL	6.0	0.0%	0.0	5.0	75nt	100m	0	70	BC37a	PCZ
68▼	I404	D	M	5	INV	1	20m	.30	DTL	20Δ	0.0%	0.0	5.0	60nt	125m	0	70	BC37	PCZ
69▼	MC666L.P%	DRT	H	3	NAIV	3	12m	1.5	DTL	1.9t	1.1t	0.0	15	200n	105m	30	75	BC42	T0116
70▼	DH0034CD	DT	CIM	2	NAND	2	100m	-.25	MOS	2.0	.80	25	5.5	75n	264m	0	85	BC52	DL124
71▼	DH0034CH	DT	CIM	2	NAND	2	100m	-.25	MOS	2.0	.80	25	5.5	75n	264m	0	85	BC52	CN11
72▼	DH0034D	DT	CIM	2	NAND	2	100m	-.25	MOS	2.0	.80	25	5.5	60n	264m	55	125	BC52	DL124
73▼	DH0034H	DT	CIM	2	NAND	2	100m	-.25	MOS	2.0	.80	25	5.5	60n	264m	55	125	BC52	CN11
74▼	#FZH181	DT	H	4	NAND	2	16m	.40	DTL	2.0	.80	0.0	5.0	300n	240m	0	70	BC34	DL54b
75▼	#FZH185	DT	H	4	NAND	2	16m	.40	DTL	2.0	.80	0.0	5.0	300n	240m	25	85	BC34	DL54b
76▼	MC1067P	DT	K	4	NAAD	1	2.5m	-.70	ECL	-.85	-1.5%	5.2	5.0	8.0n	350m	0	75	BC35	DL30
77▼	MC1267F	DT	K	4	NAAD	1	2.5m	-.70	ECL	-.85	-1.5%	5.2	5.0	8.0n	350m	55	125	BC35	FP11
78▼	MC1267L	DT	K	4	NAAD	1	2.5m	-.70	ECL	-.85	-1.5%	5.2	5.0	8.0n	350m	55	12		

12. LOGIC LEVEL CONVERTERS/LEVEL TRANSLATORS

IN ORDER OF: (1) FROM LOGIC (2) TO LOGIC
(3) CKTS. PER DEVICE & (4) TYPE NUMBER

LINE No.	TYPE NUMBER	CONVERTS			LOGIC FUNCT CODE	No. LOG INP per CKT	MIN. OUTPUT SINK CURRENT		T E C H N	INPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. PROP. DELAY (s)	MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS	
		1	2	CKTS per DEV			I (A)	@ Vo (V)		HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)			(-) (°C)	(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No.
1	8T90F	DT	M	6	INV	1	7.2m	.35	TTL	2.0	.60	0.0	5.0	55n	120m	0	70	BC56	DL16D
2	8T90W	DT	M	6	INV	1	7.2m	.35	TTL	2.0	.60	0.0	5.0	55n	120m	0	70	BC56a	FP2d
3	SN75368J	E	MT	2	NIIV	3	30m	.40	TTL	1.5	.55	5.2	24	56n	516m	0	70	BC9	DL23
4	SN75368N	E	MT	2	NIIV	3	30m	.40	TTL	1.5	.55	5.2	24	56n	516m	0	70	BC9	DL24
5	361AJ	H	DRT	2	NAND	2	6.4m	.40	DTL	6.5Δ	5.0*	0.0	15	325n	165m	30	70	BC2	DL15
6	361AL	H	DRT	2	NAND	2	6.4m	.40	DTL	6.5Δ	5.0*	0.0	15	325n	165m	30	70	BC2	DL17
7	361BL	H	DRT	2	NAND	2	6.4m	.40	DTL	6.5Δ	5.0*	0.0	12	325n	96m	55	125	BC2	DL17
8	361CJ	H	DRT	2	NAND	2	6.4m	.40	DTL	6.5Δ	5.0*	0.0	12	325n	96m	30	85	BC2	DL15
9	361CL	H	DRT	2	NAND	2	6.4m	.40	DTL	6.5Δ	5.0*	0.0	12	325n	96m	30	85	BC2	DL17
10	361ML	H	DRT	2	NAND	2	6.4m	.40	DTL	6.5Δ	5.0*	0.0	15	325n	165m	55	125	BC2	DL17
11	MC665L.P%	H	DRT	3	NAND	2	12m†	.40	DTL	8.5†	6.5†	0.0	15	175n	104m†	30	75	BC41	TO116
12	#FZH161	H	DT	4	NAND	2	20m	.40	DTL	7.5	4.5	0.0	12	500n	288m	0	70	BC33	DL96c
13	#FZH165	H	DT	4	NAND	2	20m	.40	DTL	7.5	4.5	0.0	12	500n	288m	25	85	BC33	DL96c
14	8T18A	H	T	2	NAND	2			TTL	3.4	.35%	0.0	24	20n	88m	0	75	BC54a	DL3a
15	8T18F	H	T	2	NAND	2			TTL	3.4	.35%	0.0	24	20n	88m	0	75	BC54a	DL16d
16	8T18W	H	T	2	NAND	2			TTL	3.4	.35%	0.0	24	20n	88m	0	75	BC54	FP2d
17	10190F	L	L	4	NIIV	2	20m		ECL	-1.1	-1.4	5.2	5.0	3.5n	234m	30	85	BC31	DL17h
18	MC10190L	L	L	4	NIIV	2	6.5m	-1.6	ECL	-.44†	-.49†	5.2	1.25	2.5n†	215m†	30	85	BC48	DL17b
19	SN10185J	I	L	6	NIV	1	50m		ECL	-.40	-.40	5.2	1.25	2.9n	197m†	0	85	BC17	DL25
20	SN10185N	I	L	6	NIV	1	50m		ECL	-.40	-.40	5.2	1.25	2.9n	197m†	0	85	BC17	DL26
21	MC1018P	K	D	1	ORNO	4	12m†	.45	ECL	-1.0	-1.3	5.2	5.0	25n	55m†	0	75	BC45	TO116
22	MC1218F	K	D	1	ORNO	4	12m	.40	ECL	-1.0	-1.3	5.2	5.0	25n	55m†	55	125	BC45	TO86
23	MC1218L	K	D	1	ORNO	4	12m†	.40	ECL	-1.0	-1.3	5.2	5.0	25n	55m†	55	125	BC45	TO116
24	MC1039P	K	D	4	OR	2	12m†	.40	ECL	-1.0	-1.3	5.2	5.0	16n	200m†	0	75	BC46	DL30
25	MC1239L	K	D	4	OR	2	12m†	.40	ECL	-1.0	-1.3	5.2	5.0	16n	200m†	55	125	BC46	TO116
26	#SP1039	K	D	4	OR	2	2.5m	-1.5	ECL	-1.0	-1.3	5.2	0.0	12n†	200m†	0	75	BC22	DL17e
27	#SP1239	K	D	4	OR	2	2.5m	-1.5	ECL	-1.0	-1.3	5.2	0.0	12n†	200m†	55	125	BC22	DL17e
28	MC1068P	K	DT	4	NOR	2	20m	.50	ECL	-1.0	-1.3	5.2	5.0	5.0n†	468m	0	75	BC47	DL30
29	MC1268F	K	DT	4	NOR	2	20m	.50	ECL	-1.0	-1.3	5.2	5.0	5.0n†	468m†	55	125	BC47	FP11
30	MC1268L	K	DT	4	NOR	2	20m	.50	ECL	-1.0	-1.3	5.2	5.0	5.0n†	468m	55	125	BC47	DL116
31	SN10184J	L	L	5	OR	1	50m		ECL	-.98	-1.6	5.2	1.25	3.5n	124m†	0	85	BC16	DL25
32	SN10184N	L	L	5	OR	1	50m		ECL	-.98	-1.6	5.2	1.25	3.5n	124m†	0	85	BC16	DL26
33	10191F	L	L	6	AND	1	20m		ECL	-1.1	-1.4	5.2	5.0	3.3n	197m	30	85	BC32	DL17h
34	MC10191L	L	L	6	NIIV	2			ECL	-.81Δ	-1.8*	5.2	1.25	3.3n†	145m†	30	85	BC49	DL17b
35	MC75358L	L	MT	2	NONI	3	10m	.30	TTL	-1.5	-1.6	5.2	20	56n	1.0	0	70	BC9	TO116
36	MC75358P	L	MT	2	NONI	3	10m	.30	TTL	-1.5	-1.6	5.2	20	56n	830m	0	70	BC9	DL29
37	MC75368L	L	MT	2	NONI	3	10m	.30	TTL	-1.5	-1.6	5.2	24	57n	1.0	0	70	BC9	TO116
38	MC75368P	L	MT	2	NONI	3	10m	.30	TTL	-1.5	-1.6	5.2	24	57n	830m	0	70	BC9	DL29
39	10125B	L	T	4	NIV	1	20m		ECL	-1.1	-1.4	5.2	5.0	6.0n	360m†	30	85	BC15	DL4a
40	10125F	L	T	4	NIV	1	20m		ECL	-1.1	-1.4	5.2	5.0	6.0n	360m†	30	85	BC15	DL17h
41	#GXB10125	L	T	4	NIV	2			ECL	2.5	.50%	5.2	5.0	5.0n†	380m†	0	75	BC61	DL17k
42	#MB10125	L	T	4	NAAD	2			ECL	2.5	.50	5.2	0.0		380m†	30	85	BC36	DL17r
43	#MB10125M	L	T	4	NAAD	2			ECL	2.5	.50	5.2	0.0		380m†	30	85	BC36	DL17q
44	MC10125L	L	T	4	NIIV	2	20m	.50	ECL	-.81Δ	-1.8*	5.2	5.0	6.0n	380m†	30	85	BC24	DL17b
45	MC10125P	L	T	4	NIIV	2	20m	.50	ECL	-.81Δ	-1.8*	5.2	5.0	6.0n	380m†	30	85	BC24	DL30
46	MC10525F	L	T	4	DIF	1	12m	.50	ECL	-.78Δ	-1.8*	5.2	5.0	6.0n	380m†	55	125	BC24	FP11
47	MC10525L	L	T	4	DIF	1	12m	.50	ECL	-.78Δ	-1.8*	5.2	5.0	6.0n	380m†	55	125	BC24	DL17b
48	SN10125J	L	T	4	NIIV	2	50m		ECL	-1.1	-1.4	5.2	5.0	3.5n†	468m	0	85	BC15	DL25
49	SN10125N	L	T	4	NIIV	2	50m		ECL	-1.1	-1.4	5.2	5.0	3.5n†	468m	0	85	BC15	DL26
50	1408	M	D	5	INV	1			RTL	-1.0	-6.0	0.0	5.0	75n†	100m	0	70	BC38	PCZ
51	1409	M	D	5	INV	1			RTL	6.0	1.0	0.0	5.0	75n†	75m	0	70	BC39	PCZ
52	9625DC	M	T	2	NIV	1	1.5m	.50	TTL	-3.0Δ	-9.0*	0.0	5.0	150n	24m	0	70	BC26	DL16c
53	9625DM	M	T	2	NIV	1	1.5m	.50	TTL	-3.0Δ	-9.0*	0.0	5.0	150n	24m	55	125	BC26	DL16c
54	9625FM	M	T	2	NIV	1	1.5m	.50	TTL	-3.0Δ	-9.0*	0.0	5.0	150n	24m	55	125	BC26	TO86
55	9625PC	M	T	2	NIV	1	1.5m	.50	TTL	-3.0Δ	-9.0*	0.0	5.0	150n	24m	0	70	BC26	DL68
56	MC54468F	M	T	2	INV	1	16m	.40	TTL	2.4	.40	0.0	5.0	30n	150m†	55	125	BC50	TO86
57	MC54468L	M	T	2	INV	1	16m	.40	TTL	2.4	.40	0.0	5.0	30n	150m†	55	125	BC50	TO116
58	MC74468F	M	T	2	INV	1	16m	.40	TTL	2.5	.40	0.0	5.0	30n	150m†	0	75	BC50	TO86
59	MC74468L	M	T	2	INV	1	16m	.40	TTL	2.5	.40	0.0	5.0	30n	150m†	0	75	BC50	TO116
60	MC74468P	M	T	2	INV	1	16m	.40	TTL	2.5	.40	0.0	5.0	30n	150m†	0	75	BC50	DL29
61	SN75370J	M	T	2	NAND	4	50m	.40	TTL	2.0	.80	0.0	20	190n	500m	0	70	BC12	DL25
62	SN75370N	M	T	2	NAND	4	50m	.40	TTL	2.0	.80	0.0	20	190n	500m	0	70	BC12	DL26
63	SN75270J	M	T	7	INV	1	3.2m	.40	TTL	2.4	.40%	0.0	5.0	30n†	175m	0	70	BC13	DL25
64	SN75270N	M	T	7	INV	1	3.2m	.40	TTL	2.4	.40%	0.0	5.0	30n†	175m	0	70	BC13	DL26
65	CM4104AD	T	C	4	NIIV	1	2.0m	.50	CMS	9.99	.01%	0.0	10	700n	200m	55	125	BC40	DL47d
66	CM4104AE	T	C	4	NIIV	1	2.0m	.50	CMS	9.99	.01%	0.0	10	900n	200m	40	85	BC40	DL47
67	CM4104AF	T	C	4	NIIV	1	2.0m	.50	CMS	9.99	.01%	0.0	10	700n	200m	55	125	BC40	DL47d
68	CM4104AH	T	C	4	NIIV	1	2.0m	.50	CMS	9.99	.01%	0.0	10	700n	200m	55	125	BC40	CHZ
69	#HEF4104P	T	C	4	NIIV	1	2.0m	.50	CMS	7.0	3.0%	0.0	10	75n	14m†	40	85	BC59	DL4g
70	CH1102	T	E	1	NIV	1			HYB	2.5	1.5	12	12	1.0u	440m	25	75	BC1	MD3b
71	363AL	T	H	4	NAND	3	13m	1.8	DTL	2.0	.80	0.0	15	600n	960m	30	70	BC4	DL17
72	363BL	T	H	4	NAND	3	10m	1.5	DTL	2.0	.80	0.0	12	600n	612m	55	125	BC4	DL17
73	363CJ	T	H	4	NAND	3	10m	1.5	DTL	2.0	.80	0.0	12	600n	612m	30	85	BC4	DL15
74	363CL	T	H	4	NAND	3	10m	1.5	DTL	2.0	.80	0.0	12	600n	612m	30	85	BC4	DL17
75	363ML	T	H	4	NAND	3	13m	1.8	DTL	2.0	.80	0.0	15	600n	960m	55	125	BC4	DL17
76	10124B	T	L	4	AND	1	20m		ECL	-1.1	-1.4	5.2	5.0	6.8n	340m†	30	85	BC30	DL4a
77	10124F	T	L	4	AND	1	20m		ECL	-1.1	-1.4	5.2	5.0	6.8n	340m†	30	85	BC30	DL17h
78	#GXB10124	T	L	4	NAAD	1	50m		ECL	-.88†	-1.71%	5.2	5.0	6.0n	380m†	0	75	BC60	DL17k
79	#MB10124	T	L	4	NAAD														

12. LOGIC LEVEL CONVERTERS/LEVEL TRANSLATORS

IN ORDER OF: (1)FROM LOGIC (2)TO LOGIC
(3)CKTS. PER DEVICE & (4)TYPE NUMBER

LINE No.	TYPE NUMBER	CONVERTS			LOGIC FUNCT CODE	No. LOG INP per CKT	MIN. OUTPUT SINK CURRENT		T E C H N	INPUT LOGIC LEVEL		RATED SUPPLY SPAN		MAX. PROP. DELAY tpd (s)	MAX. OPERATE. PWR. DISS. (W)	OPER. TEMP.		DRAWINGS	
		1	2	3			I (A)	@ Vo (V)		HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)			(-)	(+)	LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO
		FROM	TO	CKTS per DEV															
1	DS8819J	T	M	4	AND	2	18m	.40	TTL	2.0	.80	0.0	5.0	32n	165m	0	70	BC10	DL16b
2	DS8819N	T	M	4	AND	2	18m	.40	TTL	2.0	.80	0.0	5.0	32n	165m	0	70	BC10	DL54
3	DS75365J	T	M	4	NAND	4	40m	.50	TTL	2.0	.80	0.0	24	48n	583m	0	70	BC8	DL17d
4	DS75365N	T	M	4	NAND	4	40m	.50	TTL	2.0	.80	0.0	24	48n	583m	0	70	BC8	DL56
5	DS78L12J	T	M	6	INV	1	3.6m	.40	TTL	2.0	.70	0.0	5.0	100n	15m	55	125	BC19	DL16b
6	DS78L12W	T	M	6	INV	1	3.6m	.40	TTL	2.0	.70	0.0	5.0	100n	15m	55	125	BC19	FP6
7	DS88L12J	T	M	6	INV	1	3.6m	.40	TTL	2.0	.70	0.0	5.0	100n	15m	0	70	BC19	DL16b
8	DS88L12N	T	M	6	INV	1	3.6m	.40	TTL	2.0	.70	0.0	5.0	100n	15m	0	70	BC19	DL54
9	DS78L12J	T	M	6	NAND	1	18m	.40	TTL	2.0	.80	0.0	5.0	45n	153m	55	125	BC18a	DL16b
10	DS78L12W	T	M	6	NAND	1	18m	.40	TTL	2.0	.80	0.0	5.0	45n	153m	55	125	BC18a	FP6
11	DS88L12J	T	M	6	NAND	1	18m	.40	TTL	2.0	.80	0.0	5.0	45n	153m	0	70	BC18a	DL16b
12	DS88L12N	T	M	6	NAND	1	18m	.40	TTL	2.0	.80	0.0	5.0	45n	153m	0	70	BC18a	DL54
13	362AJ	TR	H	2	NAND	4	13m	1.8	DTL	2.0	.80	0.0	15	400n	195m	30	70	BC3	DL15
14	362AL	TR	H	2	NAND	4	13m	1.8	DTL	2.0	.80	0.0	15	400n	195m	30	70	BC3	DL17
15	362BL	TR	H	2	NAND	4	10m	1.5	DTL	2.0	.80	0.0	12	400n	120m	55	125	BC3	DL17
16	362CJ	TR	H	2	NAND	4	10m	1.5	DTL	2.0	.80	0.0	12	400n	120m	30	85	BC3	DL15
17	362CL	TR	H	2	NAND	4	10m	1.5	DTL	2.0	.80	0.0	12	400n	120m	30	85	BC3	DL17
18	362ML	TR	H	2	NAND	4	13m	1.8	DTL	2.0	.80	0.0	15	400n	195m	55	125	BC3	DL17

15. ANALOG GATE SWITCHES: BILATERAL, MULTIPLE

IN ORDER OF: (1) SWITCH FORM (2) SWTS PER CKT (3) CKTS PER DEV (4) PP SW V (5) Rds @ Is (6) TYPE No.

LINE No.	TYPE NUMBER	1 SW-FORM		3 CKT PER DEV	4 MAXIMUM SW. VOLT. P-P			5 MAXIMUM DRAIN/SOURCE ON RESISTANCE			T E C H	CONTROL LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. ON TIME tON (s)	MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO
		A-SSNO	B-SSNT		SW. VOLT. P-P	SW. CURR. P-P	Rds @ VD	@ Is	HIGH (min)	LOW (max)		NEG. (V)	POS. (V)	(-)	(+)						
		C-SPDT	SWS PER CKT		(V)	(A)	(Ω)	(V)	(V)	(V)		(V)	(V)	(°C)	(°C)						
1	CAG10A	A	1	1	9.0	100m	6.0	6.0	1.0m	HYB	2.4	.60	15	15	50n	55	125	CA3	TO100		
2	CAG10C	A	1	1	9.0	60m	10	6.0	1.0m	HYB	2.4	.60	15	15	50n	55	125	CA3	TO100		
3	CAG10	A	1	1	10	10m	30	6.0	1.0m	HYB	2.4	.60	15	15	50n	55	125	CA3	TO100		
4	CAG10B	A	1	1	14	10m	50	6.0	1.0m	HYB	2.4	.60	15	15	50n	55	125	CA3	TO100		
5	CAG6	A	1	1	15	100m	6.0	0.0	10m	HYB	15	15	700n	15	400m	55	125	CA1	CN2		
6	CAG6-10	A	1	1	15	100m	10	0.0	10m	HYB	15	15	700n	15	400m	55	125	CA1	CN2		
7	CAG10D	A	1	1	15	15m	15	6.0	1.0m	HYB	2.4	.60	15	15	100n	55	125	CA3	TO100		
8	IH5001CPA	A	1	1	16	30m	30	8.0	1.0m	MOS	2.5	1.0	18	12	700n	50	70	CA143	DL67		
9	IH5002CPA	A	1	1	16	30m	50	8.0	1.0m	MOS	2.5	1.0	18	12	700n	50	70	CA143	DL67		
10	CAG30	A	1	1	20	20m	60	2.0	1.0m	HYB	2.0	1.0	18	18	1.0u	55	125	CA7	TO100		
11	IH5037CPA	A	1	1	20	25m	160	1.0	1.0m	MOS	14	1.5	0.0	15	200n	50	70	CA152	DL63		
12	IH5037MFA	A	1	1	20	25m	160	1.0	1.0m	MOS	14	1.5	0.0	15	200n	50	70	CA152	DL67		
13	IH5038CPA	A	1	1	20	25m	200	1.0	1.0m	MOS	14	1.5	0.0	15	200n	50	70	CA152	DL63		
14	IH5038MFA	A	1	1	20	25m	200	1.0	1.0m	MOS	14	1.5	0.0	15	200n	50	70	CA152	DL67		
15	TL610IJG	A	1	1	30	10m	80	10	1.0m	PMS	2.0	8.0	20	10	150n	25	85	CA23	DL27		
16	TL610IP	A	1	1	30	10m	80	10	1.0m	PMS	2.0	8.0	20	10	150n	25	85	CA23	DL28		
17	TL610MJG	A	1	1	30	10m	80	10	1.0m	PMS	2.0	8.0	20	10	150n	25	85	CA23	DL27		
18	TL610CJG	A	1	1	30	10m	100	10	1.0m	PMS	2.0	8.0	20	10	150n	25	85	CA23	DL27		
19	TL610CP	A	1	1	30	10m	100	10	1.0m	PMS	2.0	8.0	20	10	150n	25	85	CA23	DL28		
20	IH5041BCTW	A	1	2	15	20m	80	7.5	1.0m	CMS	3.0	8.0	15	15	500n	50	70	CA35e	TO100		
21	IH5041BMTW	A	1	2	15	20m	80	7.5	1.0m	CMS	3.0	8.0	15	15	500n	50	70	CA35e	TO100		
22	CAG27	A	1	2	16	100m	6.0			HYB	2.4	.60	18	15	3.0u	55	125	CA5a	CN1b		
23	CAG27-10	A	1	2	16	100m	10			HYB	2.4	.60	18	15	3.0u	55	125	CA5a	CN1b		
24	CAG24	A	1	2	16	10m	30			HYB	2.4	.60	18	15	10u	55	125	CA5a	CN1b		
25	IH5005CDD	A	1	2	20	30m	10	10	1.0m	MOS	2.5	1.0	18	12	1.0u	55	125	CA145	DL73		
26	IH5005CFD	A	1	2	20	30m	10	10	1.0m	MOS	2.5	1.0	18	12	1.0u	55	125	CA145	FP12a		
27	IH5005IDD	A	1	2	20	30m	10	10	1.0m	MOS	2.5	1.0	18	12	1.0u	55	125	CA145	DL73		
28	IH5005IFD	A	1	2	20	30m	10	10	1.0m	MOS	2.5	1.0	18	12	1.0u	55	125	CA145	FP12a		
29	IH5005MDD	A	1	2	20	30m	10	10	1.0m	MOS	2.5	1.0	18	12	1.0u	55	125	CA145	DL73		
30	IH5005MFD	A	1	2	20	30m	10	10	1.0m	MOS	2.5	1.0	18	12	1.0u	55	125	CA145	FP12a		
31	CDA2-3	A	1	2	20		30		1.0m	HYB	3.0	.50	20	0.0	1.0u	55	125	CA13	T099		
32	IH181MDD	A	1	2	20	30m	30	7.5	10m	CMS	2.4	.80	15	15	250n	55	125	CA34b	DL62		
33	IH181MFD	A	1	2	20	30m	30	7.5	10m	CMS	2.4	.80	15	15	250n	55	125	CA34a	FP12		
34	IH181MTW	A	1	2	20	30m	30	7.5	10m	CMS	2.4	.80	15	15	250n	55	125	CA34	TO100		
35	IH5003MDD	A	1	2	20	30m	30	10	1.0m	MOS	2.5	1.0	18	12	300n	55	125	CA144	DL73		
36	IH5003MFD	A	1	2	20	30m	30	10	1.0m	MOS	2.5	1.0	18	12	300n	55	125	CA144	FP12a		
37	IH5006CDD	A	1	2	20	30m	30	10	1.0m	MOS	2.5	1.0	18	12	500n	50	70	CA145	DL73		
38	IH5006CFD	A	1	2	20	30m	30	10	1.0m	MOS	2.5	1.0	18	12	500n	50	70	CA145	FP12a		
39	IH5006IDD	A	1	2	20	30m	30	10	1.0m	MOS	2.5	1.0	18	12	500n	50	70	CA145	DL73		
40	IH5006IFD	A	1	2	20	30m	30	10	1.0m	MOS	2.5	1.0	18	12	500n	50	70	CA145	FP12a		
41	IH5006MDD	A	1	2	20	30m	30	10	1.0m	MOS	2.5	1.0	18	12	500n	50	70	CA145	DL73		
42	IH5006MFD	A	1	2	20	30m	30	10	1.0m	MOS	2.5	1.0	18	12	500n	50	70	CA145	FP12a		
43	CAG13	A	1	2	20	10m	50	0.0	10m	HYB	2.4	.60	18	15	500n	55	125	CA4	TO100		
44	CAG13A	A	1	2	20	10m	50			hyb	2.4	.60	18	15	500n	55	125	CA4	TO100		
45	CAG13C	A	1	2	20	10m	50			HYB	2.4	.60	18	15	500n	55	125	CA5	T087		
46	CAG13D	A	1	2	20	10m	50			HYB	2.4	.60	18	15	500n	55	125	CA5a	CN1b		
47	CAG42	A	1	2	20	10m	50			HYB	2.4	.60	18	15	1.0u	55	125	CA4	TO100		
48	CAG45A	A	1	2	20	10m	50			HYB	2.4	.80	18	15	1.0u	55	125	CA8	TO116		
49	IH181CDD	A	1	2	20	30m	50	7.5	10m	CMS	2.4	.80	15	15	300n	45	85	CA34b	DL62		
50	IH181CFD	A	1	2	20	30m	50	7.5	10m	CMS	2.4	.80	15	15	300n	45	85	CA34a	FP12		
51	IH181CTW	A	1	2	20	30m	50	7.5	10m	CMS	2.4	.80	15	15	300n	45	85	CA34	TO100		
52	IH5004MDD	A	1	2	20	30m	50	10	1.0m	MOS	2.5	1.0	18	12	300n	55	125	CA144	DL73		
53	IH5004MFD	A	1	2	20	30m	50	10	1.0m	MOS	2.5	1.0	18	12	300n	55	125	CA144	FP12a		
54	CSH101A	A	1	2	20		60			HYB	2.4	.80	15	15	1.2u	300m	55	125	CA11	DL11	
55	IH182MDD	A	1	2	20	30m	75	10	10m	CMS	2.4	.80	15	15	250n	45	85	CA34b	DL62		
56	IH182MFD	A	1	2	20	30m	75	10	10m	CMS	2.4	.80	15	15	250n	45	85	CA34a	FP12		
57	IH182MTW	A	1	2	20	30m	75	10	10m	CMS	2.4	.80	15	15	250n	45	85	CA34	TO100		
58	IH200BA	A	1	2	20	10m	80	10	1.0m	CMS	2.4	.80	15	15	1.0u	45	85	CA115	TO100		
59	IH200CDE	A	1	2	20	10m	80	10	1.0m	CMS	2.4	.80	15	15	1.0u	45	85	CA115a	DL61a		
60	IH200CFE	A	1	2	20	10m	80	10	1.0m	CMS	2.4	.80	15	15	1.0u	45	85	CA115a	DL66		
61	IH5007CDD	A	1	2	20	30m	80	10	1.0m	MOS	2.5	1.0	18	12	500n	50	70	CA145	DL73		
62	IH5007CFD	A	1	2	20	30m	80	10	1.0m	MOS	2.5	1.0	18	12	500n	50	70	CA145	FP12a		
63	IH5007IDD	A	1	2	20	30m	80	10	1.0m	MOS	2.5	1.0	18	12	500n	50	70	CA145	DL73		
64	IH5007IFD	A	1	2	20	30m	80	10	1.0m	MOS	2.5	1.0	18	12	500n	50	70	CA145	FP12a		
65	IH5007MDD	A	1	2	20	30m	80	10	1.0m	MOS	2.5	1.0	18	12	500n	50	70	CA145	DL73		
66	IH5007MFD	A	1	2	20	30m	80	10	1.0m	MOS	2.5	1.0	18	12	500n	50	70	CA145	FP12a		
67	IH182CDD	A	1	2	20	30m	100	10	10m	CMS	2.4	.80	15	15	300n	45	85	CA34b	DL62		
68	IH182CFD	A	1	2	20	30m	100	10	10m	CMS	2.4	.80	15	15	300n	45	85	CA34a	FP12		
69	IH182CTW	A	1	2	20	30m	100	10	10m	CMS	2.4	.80	15	15	300n	45	85	CA34	TO100		
70	IH5035CDD	A	1	2	20	25m	160	1.0	1.0m	MOS	14	1.5	0.0	15	200n	50	70	CA151	DL73		
71	IH5035CFD	A	1	2	20	25m	160	1.0	1.0m	MOS	14	1.5	0.0	15	200n	50	70	CA151a	DL61d		
72	IH5035CPD	A	1	2	20	25m	160	1.0	1.0m	MOS	14	1.5	0.0	15	200n	50	70	CA151	DL63		
73	IH5035CFE	A	1	2	20	25m	160	1.0	1.0m	MOS	14	1.5	0.0	15	200n	50	70	CA151a	DL64		
74	IH5035MDD	A	1	2	20	25m	160	1.0	1.0m	MOS	14	1.5	0.0	15	200n	50	70	CA151	DL73		
75	IH5035MDE	A	1	2	20	25m	160	1.0	1.0m	MOS	14	1.5	0.0	15	200n	50	70	CA151a	DL61d		
76	IH5035MPD	A	1	2	20	25m	160	1.0	1.0m	MOS	14	1.5	0.0	15	200n	50	70	CA151	DL63		
77	IH5035MPE	A	1	2	20	25m	160	1.0	1.0m	MOS	14	1.5	0								

15. ANALOG GATE SWITCHES: BILATERAL MULTIPLE

IN ORDER OF: (1) SWITCH FORM (2) SWTS PER CKT (3) CKTS PER DEV (4) PP SW V (5) Rds & (6) TYPE No.

LINE No.	TYPE NUMBER	SW-FORM		MAXIMUM SW. VOLT. (V)	MAXIMUM SW. CURR. (A)	MAXIMUM DRAIN/SOURCE ON RESISTANCE Rds @ V _D @ I _s (Ω)	T E C H N	CONTROL LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. ON TIME t _{ON} (s)	MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS				
		A-SSNO B-SSNC C-SPDT	2 SWS PER CKT					3 CKT PER DEV	1 HIGH (min) (V)	2 LOW (max) (V)	NEG. (V)			POS. (V)	(-) (°C)	(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO		
1	H13-200-4	A	1	2	30	70	10	1.0m	CMS	3.0	80	15	15	500n	15m†	20	85	CA58a	TO100	
2	H19-200-2	A	1	2	30	70	10	1.0m	CMS	3.0	80	15	15	500n	15m†	55	125	CA58	TO86	
3	H19-200-4	A	1	2	30	70	10	1.0m	CMS	3.0	80	15	15	500n	15m†	20	85	CA58	TO86	
4	AH0134CD	A	1	2	30	30m	80	10	1.0m	TTL	2.5	80	18	12	800n	500m	25	85	CA120	DL124
5	AH0134CN	A	1	2	30	30m	80	10	1.0m	TTL	2.5	80	18	12	800n	500m	25	85	CA120	DL54
6	AH0134D	A	1	2	30	30m	80	10	1.0m	TTL	2.5	80	18	12	800n	500m	55	125	CA121	DL124
7	H11-200-5	A	1	2	30	80	10	1.0m	CMS	3.0	80	15	15	240n†	15m†	0	75	CA58	DL45b	
8	H13-200-5	A	1	2	30	80	10	1.0m	CMS	3.0	80	15	15	240n†	15m†	0	75	CA58a	TO100	
9	H19-200-5	A	1	2	30	80	10	1.0m	CMS	3.0	80	15	15	240n†	15m†	0	75	CA58	TO86	
10	IH5031CDD	A	1	3	20	25m	160	1.0	1.0m	MOS	14	1.5	0.0	15	200n	500m	0	70	CA149	DL73
11	IH5031CPD	A	1	3	20	25m	160	1.0	1.0m	MOS	14	1.5	0.0	15	200n	500m	0	70	CA149	DL63
12	IH5031MDD	A	1	3	20	25m	160	1.0	1.0m	MOS	14	1.5	0.0	15	200n	500m	55	125	CA149	DL73
13	IH5031MPD	A	1	3	20	25m	160	1.0	1.0m	MOS	14	1.5	0.0	15	200n	500m	55	125	CA149	DL73
14	IH5032CDD	A	1	3	20	25m	200	1.0	1.0m	MOS	14	1.5	0.0	15	200n	500m	0	70	CA149	DL73
15	IH5032CPD	A	1	3	20	25m	200	1.0	1.0m	MOS	14	1.5	0.0	15	200n	500m	0	70	CA149	DL63
16	IH5032MDD	A	1	3	20	25m	200	1.0	1.0m	MOS	14	1.5	0.0	15	200n	500m	55	125	CA149	DL73
17	IH5032MPD	A	1	3	20	25m	200	1.0	1.0m	MOS	14	1.5	0.0	15	200n	500m	55	125	CA149	DL63
18	MM455FD	A	1	3	20	600	-10	1.0m	PMS			20	10	200m	55	125	CA112	FP12a		
19	MM455TW	A	1	3	20	600	-10	1.0m	PMS			20	10	200m	55	125	CA112	TO100		
20	MM555FD	A	1	3	20	600	-10	1.0m	PMS			20	10	200m	25	70	CA112	FP12a		
21	MM555TW	A	1	3	20	600	-10	1.0m	PMS			20	10	200m	25	70	CA112	TO100		
22	SFF155	A	1	3	20	800	-10	1.0m	PMS	5.0Δ	5	20	10	200m	0	70	CA33	TO100		
23	SFF155M	A	1	3	20	800	-10	1.0m	PMS	5.0Δ	5	20	10	200m	55	125	CA33	TO100		
24	MB84016	A	1	4					MOS			0.0	10	5.0u†	40	85	CA78	DL16g		
25	MB84016M	A	1	4					MOS			0.0	10	5.0u†	40	85	CA78	DL16f		
26	G1340IFD	A	1	4	10†	50m	10	0.0	0.0	NMS	0.0	-20†	20	0.0	500m	20	85	CA109	FP12a	
27	G1340MFD	A	1	4	10†	50m	10	0.0	0.0	NMS	0.0	-20†	20	0.0	500m	55	125	CA109	FP12a	
28	CAG49	A	1	4	15	15m	50	3.5	1.0m	HYB	3.5	50	15	5.0	20n	30m	55	125	CA10	MD23
29	CM4066AD	A	1	4	15	150†	10	1.0m	CMS	10†	0.0†	0.0	10	20n	200m	55	125	CA27	DL16j	
30	CM4066AE	A	1	4	15	150†	10	1.0m	CMS	10†	0.0†	0.0	10	20n	200m	40	85	CA27	DL16i	
31	CM4066AF	A	1	4	15	150†	10	1.0m	CMS	10†	0.0†	0.0	10	20n	200m	55	125	CA27	CH8y	
32	CM4066AH	A	1	4	15	150†	10	1.0m	CMS	10†	0.0†	0.0	10	20n	200m	55	125	CA27	Δ001AD	
33	CD4066AD	A	1	4	15	150†	10	1.0m	CMS	10	0.0	0.0	10	25n	500m	55	125	CA27	Δ001AB	
34	CD4066AE	A	1	4	15	150†	10	1.0m	CMS	10	0.0	0.0	10	25n	500m	40	85	CA27	Δ001AB	
35	CD4066AF	A	1	4	15	150†	10	1.0m	CMS	10	0.0	0.0	10	25n	500m	55	125	CA27	CH8y	
36	CD4066AH	A	1	4	15	150†	10	1.0m	CMS	10	0.0	0.0	10	25n	500m	55	125	CA27	Δ004AF	
37	CD4066AK	A	1	4	15	150†	10	1.0m	CMS	10	0.0	0.0	10	25n	500m	40	85	CA27	Δ001AB	
38	CD4066AJ	A	1	4	15	150†	10	1.0m	CMS	10	0.0	0.0	10	25n	500m	40	85	CA27	DL3e	
39	HEF4066P	A	1	4	15	500	10	1.0m	CMS	7.0	3.0	0.0	10	4.0n†	300u†	40	85	CA155	Δ001AD	
40	CD4016AD	A	1	4	15	15m†	660	10	1.0m	CMS	2.7Δ	50*	0.0	10	25n	500m	55	125	CA27	Δ001AB
41	CD4016AE	A	1	4	15	15m†	660	10	1.0m	CMS	2.7Δ	50*	0.0	10	25n	500m	40	85	CA27	Δ001AB
42	CD4016AF	A	1	4	15	15m†	660	10	1.0m	CMS	2.7Δ	50*	0.0	10	25n	500m	55	125	CA27	Δ001AB
43	CD4016AH	A	1	4	15	15m†	660	10	1.0m	CMS	2.7Δ	50*	0.0	10	25n	500m	55	125	CA27	CH8v
44	CD4016AJ	A	1	4	15	15m†	660	10	1.0m	CMS	2.7Δ	50*	0.0	10	25n	500m	55	125	CA27	Δ004AF
45	CD4016AY	A	1	4	15	15m†	660	10	1.0m	CMS	2.7Δ	50*	0.0	10	25n	500m	40	85	CA27	Δ001AB
46	CM4016AD	A	1	4	15	660	10	1.0m	CMS	10†	0.0†	0.0	10	20n	200m	55	125	CA29	DL16j	
47	CM4016AE	A	1	4	15	660	10	1.0m	CMS	10†	0.0†	0.0	10	20n	200m	40	85	CA29	DL16j	
48	CM4116AD	A	1	4	15	660	10	1.0m	CMS	10†	0.0†	0.0	10	20n	200m	55	125	CA29	DL16j	
49	CM4116AE	A	1	4	15	660	10	1.0m	CMS	10†	0.0†	0.0	10	20n	200m	40	85	CA29	DL16j	
50	HEF4016P	A	1	4	15	660	10	1.0m	CMS	7.0	3.0	0.0	10	16n†	80u†	40	85	CA155	DL3e	
51	TF4016AJ	A	1	4	15	660	10	1.0m	CMS	4.0	90	0.0	10	75n	200m	55	125	CA27	DL23	
52	TF4016AN	A	1	4	15	660	10	1.0m	CMS	4.0	90	0.0	10	75n	200m	55	125	CA27	DL24	
53	TP4016AJ	A	1	4	15	660	10	1.0m	CMS	4.0	90	0.0	10	115n	200m	40	85	CA27	DL23	
54	TP4016AN	A	1	4	15	660	10	1.0m	CMS	4.0	90	0.0	10	115n	200m	40	85	CA27	DL24	
55	SFF24016AEV	A	1	4	15	850	9.3	200n	CMS	2.7Δ	50*	0.0	15	20n	200m	40	85	CA29	TO116	
56	SFF24016AKM	A	1	4	15	850	9.3	200n	CMS	2.7Δ	50*	0.0	15	20n	200m	55	125	CA29	TO116	
57	MC14066BAL	A	1	4	16	10m	280	15	600n	CMS	11.2	3.75	0.0	15	10n	15u†	55	125	CA57	DL16a
58	MC14066BCL	A	1	4	16	10m	280	15	600n	CMS	11.2	3.75	0.0	15	20n	60u†	40	85	CA57	DL16a
59	MC14066BCP	A	1	4	16	10m	280	15	600n	CMS	11.2	3.75	0.0	15	20n	60u†	40	85	CA57	DL29
60	MC14016BAL	A	1	4	16	10m	400	15	200n	CMS	11.0	90	0.0	15	23n	15u†	55	125	CA56	DL16a
61	MC14016BCL	A	1	4	16	10m	400	15	600n	CMS	11.0	90	0.0	15	35n	60u†	40	85	CA56	DL16a
62	MC14016BCP	A	1	4	16	10m	400	15	600n	CMS	11.0	90	0.0	15	35n	60u†	40	85	CA56	DL29
63	AD7516BJ	A	1	4	17	10m	100†	15	1.5m	CMS	2.7Δ	50*	7.5	7.5	20n†	7.5m	0	70	CA79a	DL3a
64	AD7516KN	A	1	4	17	10m	100†	15	1.5m	CMS	2.7Δ	50*	7.5	7.5	20n†	7.5m	0	70	CA79a	DL3a
65	AD7516SD	A	1	4	17	10m	100†	15	1.5m	CMS	2.7Δ	50*	7.5	7.5	20n†	7.5m	55	125	CA79a	DL6b
66	AD7516TD	A	1	4	17	10m	100†	15	1.5m	CMS	2.7Δ	50*	7.5	7.5	20n†	7.5m	55	125	CA79a	DL6b
67	uPD4066C	A	1	4	18	500	10k	0.0	0.0	NMS	0.0	-20†	20	0.0	500m	20	85	CA109	Δ001AA	
68	G1330IFD	A	1	4	20†	50m	20	0.0	0.0	NMS	0.0	-20†	20	0.0	500m	55	125	CA109	FP12a	
69	G1330MFD	A	1	4	20†	50m	20	0.0	0.0	NMS	0.0	-20†	20	0.0	500m	55	125	CA109	FP12a	
70	G128IFD	A	1	4	20†	50m	45	0.0	0.0	NMS	0.0	-20†	20	0.0	500m	20	85	CA109	FP12a	
71	G128MFD	A	1	4	20†	50m	45	0.0	0.0	NMS	0.0	-20†	20	0.0	500m	55	125	CA109	FP12a	
72	G127IFD	A	1	4	20†	50m	90	0.0	0.0	NMS	0.0	-20†	20	0.0	500m	20	85	CA109	FP12a	
73	G127MFD	A	1	4	20†	50m	90	0.0	0.0	NMS	0.0	-20†	20	0.0	500m	55	125	CA109	FP12a	
74	IH5027CDE	A	1	4	20	25m	160	1.0	1.0m	MOS	14	1.5	0.0	15	200n	500m	0	70	CA147	DL61d
75	IH5027CPE	A	1	4	20	25m	160	1.0	1.0m	MOS	14	1.5	0.0	15	200n</					

15. ANALOG GATE SWITCHES: BILATERAL, MULTIPLE

IN ORDER OF: (1) SWITCH FORM (2) SWTS PER CKT (3) CKTS PER DEV (4) PP SW V(S) Rds & (6) TYPE No.

LINE No.	TYPE NUMBER	1 SW-FORM		3	4 SW.		5 MAXIMUM		T E C H N	CONTROL LOGIC LEVEL		RATED PWR. SUPPLY		MAX. ON TIME (s)	MAX. OPERATE PWR. DISS. (W)		OPER. TEMP.		LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO		
		A-SSNO	B-SSNC		2 SWS PER CKT	SW. P-P (V)	SW. CURR. P-P (A)	DRAIN/SOURCE Rds @ VD (Ω)		ON RESISTANCE @ Is (Ω)	HIGH (min) (V)	LOW (max) (V)	NEG. (V)		POS. (V)	(°C)	(°C)					
1	IH184MDE	A	A	2	2	2	20	30mZ	30	7.5	10m	CMS	2.4	.80	15	15	250n	450mZ	55	125	CA34d	DL61b
2	IH184MFD	A	A	2	2	2	20	30mZ	30	7.5	10m	CMS	2.4	.80	15	15	250n	450mZ	55	125	CA34c	FP12
3	CAG48A	A	A	2	2	2	20	10m	50	.80	1.0m	HYB	2.4	.80	18	15	2.0u	65mZ	55	125	CA9	DL11
4	IH184CDE	A	A	2	2	2	20	30mZ	50	7.5	10m	CMS	2.4	.80	15	15	300n	450mZ	20	85	CA34d	DL61b
5	IH184CFD	A	A	2	2	2	20	30mZ	50	7.5	10m	CMS	2.4	.80	15	15	300n	450mZ	20	85	CA34c	FP12
6	IH185MDE	A	A	2	2	2	20	30mZ	75	10	10m	CMS	2.4	.80	15	15	250n	450mZ	55	125	CA34d	DL61b
8	IH185CFD	A	A	2	2	2	20	30mZ	100	10	10m	CMS	2.4	.80	15	15	250n	450mZ	55	125	CA34c	FP12
9	IH185CFD	A	A	2	2	2	20	30mZ	100	10	10m	CMS	2.4	.80	15	15	300n	450mZ	20	85	CA34d	DL61b
10	DGM122AL	A	A	2	2	2	20	30mZ	450	10	1.0m	PMS	1.3	.40†	20	10	300n	750mZ	55	125	CA62	DL6a
11	DGM122AP	A	A	2	2	2	20	30mZ	450	10	1.0m	PMS	1.3	.40†	20	10	300n	825mZ	55	125	CA62	DL6a
12	DGM122BL	A	A	2	2	2	20	30mZ	500	10	1.0m	PMS	1.3	.40†	20	10	500n	750mZ	55	125	CA62	FP5a
13	DGM122BP	A	A	2	2	2	20	30mZ	500	10	1.0m	PMS	1.3	.40†	20	10	500n	825mZ	20	85	CA62	DL6a
14	AH0153CD	A	A	2	2	2	25	30mZ	15	7.5	1.0m	TTL	2.5	.80	15	15	1.0u	500mZ	25	85	CA119	DL12a
15	AH0153D	A	A	2	2	2	25	30mZ	15	7.5	1.0m	TTL	2.5	.80	15	15	1.0u	500mZ	55	125	CA119	DL12a
16	AH0154CD	A	A	2	2	2	25	30mZ	50	7.5	1.0m	TTL	2.5	.80	15	15	800n	500mZ	25	85	CA119	DL12a
17	AH0154D	A	A	2	2	2	25	30mZ	50	7.5	1.0m	TTL	2.5	.80	15	15	800n	500mZ	55	125	CA119	DL12a
18	AH0140CD	A	A	2	2	2	30	30mZ	10	10	1.0m	TTL	2.5	.80	18	12	1.0u	500mZ	25	85	CA119	DL12a
19	AH0140D	A	A	2	2	2	30	30mZ	10	10	1.0m	TTL	2.5	.80	18	12	1.0u	500mZ	55	125	CA119	DL12a
20	AH0129CD	A	A	2	2	2	30	30mZ	30	10	1.0m	TTL	2.5	.80	18	12	800n	500mZ	25	85	CA119	DL12a
21	AH0129D	A	A	2	2	2	30	30mZ	30	10	1.0m	TTL	2.5	.80	18	12	800n	500mZ	55	125	CA119	DL12a
22	AH0126CD	A	A	2	2	2	30	30mZ	80	10	1.0m	TTL	2.5	.80	18	12	800n	500mZ	25	85	CA119	DL12a
23	AH0126D	A	A	2	2	2	30	30mZ	80	10	1.0m	TTL	2.5	.80	18	12	800n	500mZ	55	125	CA119	DL12a
24	H11-1800A2	A	A	2	2	2	30	30mZ	200	10	100u	CMS	4.0	.40	15	15	500n	10m†	55	125	CA60	DL77
25	H11-1800A5	A	A	2	2	2	30	30mZ	200	10	100u	CMS	4.0	.40	15	15	500n	10m†	0	75	CA60	DL77
26	AH5015CN	A	A	3	3	3	20	30mZ	100	1.5	2.0m	TTL	0.0†	15†	0.0	15	500n	500mZ	25	85	CA126	DL56
27	AH5016CN	A	A	3	3	3	20	30mZ	150	3.5	2.0m	TTL	0.0†	5.0†	0.0	15	500n	500mZ	25	85	CA126	DL56
28	AH5011CN	A	A	4	4	4	20	30mZ	100	1.5	2.0m	TTL	0.0†	15†	0.0	15	500n	500mZ	25	85	CA124	DL56
29	AH97C11CN	A	A	4	4	4	20	30mZ	100	0.0	2.0m	CMS	0.0†	15	0.0	15	500n	500mZ	25	85	CA124	DL56
30	AH9711CN	A	A	4	4	4	20	30mZ	100	1.5	2.0m	TTL	0.0†	15†	0.0	15	500n	500mZ	25	85	CA124	DL56
31	AH5012CN	A	A	4	4	4	20	30mZ	150	3.5	2.0m	TTL	0.0†	5.0†	0.0	15	500n	500mZ	25	85	CA124	DL56
32	AH97C12CN	A	A	4	4	4	20	30mZ	150	0.0	2.0m	CMS	0.0†	10	0.0	15	500n	500mZ	25	85	CA124	DL56
33	AH9712CN	A	A	4	4	4	20	30mZ	150	3.5	2.0m	TTL	0.0†	5.0†	0.0	15	500n	500mZ	25	85	CA124	DL56
34	SFF1115KM	A	A	6	1	1	20	100mZ	450	2.0	1.0m	PMS	5.0	-.0†	30	30	750mZ	55	125	CA48	DL47a	
35	UC6410D	A	A	6	1	1	40	50mZ	250	20	100u	PMS	0.0†	-.20†	20	0.0	15n	900mZ	55	125	CA114	DL7c
36	UC6410F	A	A	6	1	1	40	50mZ	250	20	100u	PMS	0.0†	-.20†	20	0.0	15n	900mZ	55	125	CA114	FP2c
37	UC7410D	A	A	6	1	1	40	50mZ	250	20	100u	PMS	0.0†	-.20†	20	0.0	15n	900mZ	0	70	CA114	DL7e
38	UC7410F	A	A	6	1	1	40	50mZ	250	20	100u	PMS	0.0†	-.20†	20	0.0	15n	900mZ	0	70	CA114	FP2c
39	MX01C	A	A	8	1	1	30	10u	500	†	10m	MOS	6.0	0.0	30	0.0			55	125	CA83	FP7
40	DG171AA	A	A	1	1	1	20	20mZ	100	10	10m	PMS	2.0†	.80†	20	10	200n	450mZ	55	125	CA66	CN4a
41	DG171BA	A	A	1	1	1	20	20mZ	125	10	10m	PMS	2.0†	.80†	20	10	200n	450mZ	20	85	CA66	CN4a
42	DG151AL	A	A	1	2	15	30m	15	7.5	10m	NMS	2.5	.80	15	15	1.0u	750mZ	55	125	CA92	FP5a	
43	DG151AP	A	A	1	2	15	30m	15	7.5	10m	NMS	2.5	.80	15	15	1.0u	825mZ	55	125	CA92a	DL6a	
44	DG151BL	A	A	1	2	15	30m	20	5.5	10m	NMS	2.5	.80	15	15	1.5u	750mZ	20	85	CA92	FP5a	
45	DG151BP	A	A	1	2	15	30m	20	5.5	10m	NMS	2.5	.80	15	15	1.5u	825mZ	20	85	CA92a	DL6a	
46	DG152AL	A	A	1	2	15	30m	50	7.5	10m	NMS	2.5	.80	15	15	600n	750mZ	55	125	CA92	FP5a	
47	DG152AP	A	A	1	2	15	30m	50	7.5	10m	NMS	2.5	.80	15	15	600n	825mZ	55	125	CA92a	DL6a	
48	DG152BL	A	A	1	2	15	30m	100	5.5	10m	NMS	2.5	.80	15	15	1.0u	750mZ	20	85	CA92	FP5a	
49	DG152BP	A	A	1	2	15	30m	100	5.5	10m	NMS	2.5	.80	15	15	1.0u	825mZ	20	85	CA92a	DL6a	
50	DG141AL	A	A	1	2	20	30m	10	10	10m	NMS	2.5	.80	18	12	1.0u	750mZ	55	125	CA92	FP5a	
51	DG141AP	A	A	1	2	20	30m	10	10	10m	NMS	2.5	.80	18	12	1.0u	825mZ	55	125	CA92a	DL6a	
52	DG180AA	A	A	1	2	20	30mZ	10	-7.5	10m	NMS	2.0†	.80†	15	15	300n	450mZ	55	125	CA95	TO100	
53	DG180AAΔ	A	A	1	2	20	200mZ	10	7.5	10m	NMS	2.0	.80	15	15	300n	450mZ	55	125	CA95	CN4a	
54	DG180AL	A	A	1	2	20	30mZ	10	-7.5	10m	NMS	2.0†	.80†	15	15	300n	750mZ	55	125	CA95a	FP12	
55	DG180ALΔ	A	A	1	2	20	200mZ	10	7.5	10m	NMS	2.0	.80	15	15	300n	750mZ	55	125	CA95a	FP5a	
56	DG180AP	A	A	1	2	20	30mZ	10	-7.5	10m	NMS	2.0†	.80†	15	15	300n	825mZ	55	125	CA95b	DL73	
57	DG180APΔ	A	A	1	2	20	200mZ	10	7.5	10m	NMS	2.0	.80	15	15	300n	825mZ	55	125	CA95b	DL6a	
58	DG141BL	A	A	1	2	20	30m	15	8.0	10m	NMS	2.5	.80	18	12	1.5u	750mZ	20	85	CA92	FP5a	
59	DG141BP	A	A	1	2	20	30m	15	8.0	10m	NMS	2.5	.80	18	12	1.5u	825mZ	20	85	CA92a	DL6a	
60	DG180BA	A	A	1	2	20	30mZ	15	-7.5	10m	NMS	2.0†	.80†	15	15	350n	450mZ	20	85	CA95	TO100	
61	DG180BAΔ	A	A	1	2	20	200mZ	15	7.5	10m	NMS	2.0	.80	15	15	350n	450mZ	20	85	CA95	CN4a	
62	DG180BL	A	A	1	2	20	30mZ	15	-7.5	10m	NMS	2.0†	.80†	15	15	350n	750mZ	20	85	CA95a	FP12	
63	DG180BLΔ	A	A	1	2	20	200mZ	15	7.5	10m	NMS	2.0	.80	15	15	350n	750mZ	20	85	CA95a	FP5a	
64	DG180BP	A	A	1	2	20	30mZ	15	-7.5	10m	NMS	2.0†	.80†	15	15	350n	825mZ	20	85	CA95b	DL73	
65	DG180BPΔ	A	A	1	2	20	200mZ	15	7.5	10m	NMS	2.0	.80	15	15	350n	825mZ	20	85	CA95b	DL6a	
66	DG133AL	A	A	1	2	20	30m	30	10	10m	NMS	2.5†	.80†	18	12	600n	750mZ	55	125	CA92	FP5a	
67	DG133AP	A	A	1	2	20	30m	30	10	10m	NMS	2.5†	.80†	18	12	600n	825mZ	55	125	CA92a	DL6a	
68	DG181AA	A	A	1	2	20	30mZ	30	-7.5	10m	NMS	2.0†	.80†	15	15	300n	450mZ	55	125	CA95	TO100	
69	DG181AAΔ	A	A	1	2	20	30mZ	30	7.5	10m	NMS	2.0	.80	15	15	150n	450mZ	55	125	CA95	CN4a	
70	DG181AL	A	A	1	2	20	30mZ	30														

15. ANALOG GATE SWITCHES: BILATERAL MULTIPLE

IN ORDER OF: (1) SWITCH FORM (2) SWTS PER CKT (3) CKTS PER DEV (4) PP SW V (5) Rds & (6) TYPE No.

LINE No.	TYPE NUMBER	SW-FORM		CKT PER DEV	MAXIMUM			T E C H	CONTROL LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. ON TIME (s)	MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS				
		A-SSNO	B-SSNC		SW. VOLT. P-P	SW. CURR. P-P	DRAIN/SOURCE ON RESISTANCE		HIGH (min)	LOW (max)	NEG. (V)	POS. (V)			(-)	(+)	LOGIC DWG. No.	OUTLINE DWG. No.			
		C-SPDT	SWS PER CKT		(V)	(A)	Rds (Ω)		@ VD (V)	@ Is (A)							Δ=MO				
1	DG112IFD	A	1	2	20	30m	450	-10	100u	MOS	1.0Δ	.40	20	10	300n	750m	55	20	85	CA131	FP12a
2	DG112MDD	A	1	2	20	30m	450	-10	100u	MOS	1.0Δ	.40	20	10	300n	750m	55	125	125	CA131	DL73
3	DG112MFD	A	1	2	20	30m	450	-10	100u	MOS	1.0Δ	.40	20	10	300n	750m	55	125	125	CA131	FP12a
4	DG141ADD	A	1	2	30	30m	10	10	1.0m	MOS	2.5	1.0	18	12		750m	55	125	125	CA92a	DL73
5	DG141AFD	A	1	2	30	30m	10	10	1.0m	MOS	2.5	1.0	18	12		750m	55	125	125	CA92	FP12a
6	DG141BDD	A	1	2	30	30m	10	10	1.0m	MOS	2.5	1.0	18	12		750m	25	85	85	CA92a	DL73
7	DG141BFD	A	1	2	30	30m	10	10	1.0m	MOS	2.5	1.0	18	12		750m	25	85	85	CA92	FP12a
8	DG151ADD	A	1	2	30	30m	15	7.5	1.0m	MOS	2.5	1.0	15	15		750m	55	125	125	CA92a	DL73
9	DG151AFD	A	1	2	30	30m	15	7.5	1.0m	MOS	2.5	1.0	15	15		750m	55	125	125	CA92	FP12a
10	DG151BDD	A	1	2	30	30m	15	7.5	1.0m	MOS	2.5	1.0	15	15		750m	25	85	85	CA92a	DL73
11	DG151BFD	A	1	2	30	30m	15	7.5	1.0m	MOS	2.5	1.0	15	15		750m	25	85	85	CA92	FP12a
12	DG133ADD	A	1	2	30	30m	30	10	1.0m	MOS	2.5	1.0	18	12		750m	55	125	125	CA92a	DL73
13	DG133AFD	A	1	2	30	30m	30	10	1.0m	MOS	2.5	1.0	18	12		750m	55	125	125	CA92	FP12a
14	DG133BDD	A	1	2	30	30m	30	10	1.0m	MOS	2.5	1.0	18	12		750m	25	85	85	CA92a	DL73
15	DG133BFD	A	1	2	30	30m	30	10	1.0m	MOS	2.5	1.0	18	12		750m	25	85	85	CA92	FP12a
16	DG152ADD	A	1	2	30	30m	50	7.5	1.0m	MOS	2.5	1.0	15	15		750m	55	125	125	CA92a	DL73
17	DG152AFD	A	1	2	30	30m	50	7.5	1.0m	MOS	2.5	1.0	15	15		750m	55	125	125	CA92	FP12a
18	DG152BDD	A	1	2	30	30m	50	7.5	1.0m	MOS	2.5	1.0	15	15		750m	25	85	85	CA92a	DL73
19	DG152BFD	A	1	2	30	30m	50	7.5	1.0m	MOS	2.5	1.0	15	15		750m	25	85	85	CA92	FP12a
20	DG200AA	A	1	2	30	20m	70	10	1.0m	CMS	2.4	.80	15	15	1.0u	450m	55	125	125	CA71	CN4a
21	DG200AL	A	1	2	30	20m	70	10	1.0m	CMS	2.4	.80	15	15	1.0u	750m	55	125	125	CA71a	FP5a
22	DG200APΔ	A	1	2	30	20m	70	10	1.0m	CMS	2.4	.80	15	15	1.0u	825m	55	125	125	CA71b	DL6a
23	DG134ADD	A	1	2	30	30m	80	10	1.0m	MOS	2.5	1.0	18	12		750m	55	125	125	CA92a	DL73
24	DG134AFD	A	1	2	30	30m	80	10	1.0m	MOS	2.5	1.0	18	12		750m	55	125	125	CA92	FP12a
25	DG134BDD	A	1	2	30	30m	80	10	1.0m	MOS	2.5	1.0	18	12		750m	25	85	85	CA92a	DL73
26	DG134BFD	A	1	2	30	30m	80	10	1.0m	MOS	2.5	1.0	18	12		750m	25	85	85	CA92	FP12a
27	DG200BA	A	1	2	30	20m	80	10	1.0m	CMS	2.4	.80	15	15	1.0u	450m	20	85	85	CA71	CN4a
28	DG200BL	A	1	2	30	20m	80	10	1.0m	CMS	2.4	.80	15	15	1.0u	750m	20	85	85	CA71a	FP5a
29	DG200BPΔ	A	1	2	30	20m	80	10	1.0m	CMS	2.4	.80	15	15	1.0u	825m	20	85	85	CA71b	DL6a
30	DG200CJ	A	1	2	30	20m	80	10	1.0m	CMS	2.4	.80	15	15	1.0u	470m	0	70	70	CA71b	DL54a
31	DG201AL	A	1	4	30	20m	175	10	1.0m	CMS	2.4	.80	15	15	1.0u	750m	55	125	125	CA69a	FP17
32	DG201AP	A	1	4	30	20m	175	10	1.0m	CMS	2.4	.80	15	15	1.0u	900m	55	125	125	CA69	DL88
33	DG201BL	A	1	4	30	20m	200	10	1.0m	CMS	2.4	.80	15	15	580n	750m	20	85	85	CA69a	FP17
34	DG201BP	A	1	4	30	20m	200	10	1.0m	CMS	2.4	.80	15	15	580n	900m	20	85	85	CA69	DL88
35	DG201CJ	A	1	4	30	20m	200	10	1.0m	CMS	2.4	.80	15	15	580n	470m	0	70	70	CA69	DL77b
36	DG153AL	A	2	2	15	30m	15	7.5	10m	NMS	2.5	.80	15	15	1.0u	750m	55	125	125	CA91	FP5a
37	DG153BL	A	2	2	15	30m	20	5.5	10m	NMS	2.5	.80	15	15	1.5u	750m	20	85	85	CA91	FP5a
38	DG154AL	A	2	2	15	30m	50	7.5	10m	NMS	2.5	.80	15	15	600n	750m	55	125	125	CA91	FP5a
39	DG154AP	A	2	2	15	30m	50	7.5	10m	NMS	2.5	.80	15	15	600n	825m	55	125	125	CA91a	DL6a
40	DG154BL	A	2	2	15	30m	100	5.5	10m	NMS	2.5	.80	15	15	1.0u	750m	20	85	85	CA91	FP5a
41	DG154BP	A	2	2	15	30m	100	5.5	10m	NMS	2.5	.80	15	15	1.0u	825m	20	85	85	CA91a	DL6a
42	DG140ADD	A	2	2	20	30m	10	10	1.0m	MOS	2.5	1.0	18	12		750m	55	125	125	CA91a	DL73
43	DG140AFD	A	2	2	20	30m	10	10	1.0m	NMS	2.5	.80	18	12	1.0u	750m	55	125	125	CA91	FP5a
44	DG140AL	A	2	2	20	30m	10	10	1.0m	NMS	2.5	.80	18	12	1.0u	750m	25	85	85	CA91a	DL73
45	DG140BDD	A	2	2	20	30m	10	10	1.0m	MOS	2.5	1.0	18	12		750m	25	85	85	CA91a	DL73
46	DG140BFD	A	2	2	20	30m	10	10	1.0m	MOS	2.5	1.0	18	12		750m	25	85	85	CA91	FP12a
47	DG183AL	A	2	2	20	30m	10	-7.5	10m	NMS	2.0	.80	15	15	350n	750m	55	125	125	CA96	FP12a
48	DG183ALΔ	A	2	2	20	30m	10	7.5	10m	NMS	2.0	.80	15	15	300n	750m	55	125	125	CA96	FP5a
49	DG183AP	A	2	2	20	30m	10	-7.5	10m	NMS	2.0	.80	15	15	350n	825m	55	125	125	CA96a	DL61b
50	DG183APΔ	A	2	2	20	30m	10	7.5	10m	NMS	2.0	.80	15	15	300n	825m	55	125	125	CA96a	DL88
51	DG140BL	A	2	2	20	30m	15	8.0	10m	NMS	2.5	.80	18	12	1.5u	750m	20	85	85	CA91	FP5a
52	DG153ADD	A	2	2	20	30m	15	7.5	1.0m	MOS	2.5	1.0	15	15		750m	55	125	125	CA91a	DL73
53	DG153AFD	A	2	2	20	30m	15	7.5	1.0m	MOS	2.5	1.0	15	15		750m	55	125	125	CA91	FP12a
54	DG153BDD	A	2	2	20	30m	15	7.5	1.0m	MOS	2.5	1.0	15	15		750m	25	85	85	CA91a	DL73
55	DG153BFD	A	2	2	20	30m	15	7.5	1.0m	MOS	2.5	1.0	15	15		750m	25	85	85	CA91	FP12a
56	DG183BL	A	2	2	20	30m	15	-7.5	10m	NMS	2.0	.80	15	15	350n	750m	20	85	85	CA96	FP12a
57	DG183BLΔ	A	2	2	20	30m	15	7.5	10m	NMS	2.0	.80	15	15	350n	750m	20	85	85	CA96	FP5a
58	DG183BP	A	2	2	20	30m	15	-7.5	10m	NMS	2.0	.80	15	15	350n	825m	20	85	85	CA96a	DL61b
59	DG183BPΔ	A	2	2	20	30m	15	7.5	10m	NMS	2.0	.80	15	15	350n	825m	20	85	85	CA96a	DL88
60	DG129ADD	A	2	2	20	30m	30	10	1.0m	MOS	2.5	1.0	18	12		750m	55	125	125	CA91a	DL73
61	DG129AFD	A	2	2	20	30m	30	10	1.0m	MOS	2.5	1.0	18	12		750m	55	125	125	CA91	FP12a
62	DG129BDD	A	2	2	20	30m	30	10	1.0m	MOS	2.5	1.0	18	12		750m	25	85	85	CA91a	DL73
63	DG129BFD	A	2	2	20	30m	30	10	1.0m	MOS	2.5	1.0	18	12		750m	25	85	85	CA91	FP12a
64	DG184AL	A	2	2	20	30m	30	7.5	10m	CMS	2.4	.80	15	15	150n	450m	55	125	125	CA96	FP12a
65	DG184ALΔ	A	2	2	20	30m	30	7.5	10m	NMS	2.0	.80	15	15	150n	750m	55	125	125	CA96	FP5a
66	DG184AP	A	2	2	20	30m	30	7.5	10m	NMS	2.0	.80	15	15	150n	825m	20	85	85	CA96a	DL88
67	DG184AP#1	A	2	2	20	30m	30	7.5	10m	CMS	2.4	.80	15	15	250n	450m	55	125	125	CA96a	DL61
68	DG184AP#2	A	2	2	20	30m	30	7.5	10m	CMS	2.4	.80	15	15	250n	450m	55	125	125	CA96a	DL70
69	DG154ADD	A	2	2	20	30m	50	7.5	1.0m	MOS	2.5	1.0	15	15		750m	55	125	125	CA91a	DL73
70	DG154AFD	A	2	2	20	30m	50	7.5	1.0m	MOS	2.5	1.0	15	15		750m	55	125	125	CA91	FP12a
71	DG154BDD	A	2	2	20	30m	50	7.5	1.0m	MOS	2.5	1.0	15	15		750m	25	85	85	CA91a	DL73
72	DG154																				

15. ANALOG GATE SWITCHES: BILATERAL MULTIPLE

IN ORDER OF: (1) SWITCH FORM (2) SWTS PER CKT (3) CKTS PER DEV (4) P SW V (5) Rds & (6) TYPE No.

LINE No.	TYPE NUMBER	1 SW-FORM		3 SW PER DEV	4 MAXIMUM SW. VOLT. CURR. P-P			5 MAXIMUM DRAIN/SOURCE ON RESISTANCE			T E C H N	CONTROL LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. ON TIME tON (s)	MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO
		A-SSNO	B-SSNC		VOLT. (V)	CURR. (A)	Rds (Ω)	@ VD (V)	@ Is (A)	HIGH (min) (V)		LOW (max) (V)	NEG. (V)	POS. (V)	(-)			(+)			
		C-SPDT	CKT PER DEV		P-P (V)	P-P (A)	Ω	V	A	(min)		(max)	(V)	(V)	(°C)			(°C)			
1▼	IH5033CPD	A0	2	1	20	25m	160	1.0	1.0m	MOS	14	1.5	0.0	15	200n	500m	0	70	CA150a	DL63	
2▼	IH5033MDD	A0	2	1	20	25m	160	1.0	1.0m	MOS	14	1.5	0.0	15	200n	500m	55	125	CA150a	DL73	
3▼	IH5033MPA	A0	2	1	20	25m	160	1.0	1.0m	MOS	14	1.5	0.0	15	200n	500m	55	125	CA150	DL67	
4▼	IH5033MPD	A0	2	1	20	25m	160	1.0	1.0m	MOS	14	1.5	0.0	15	200n	500m	55	125	CA150a	DL63	
5▼	IH5034CDD	A0	2	1	20	25m	200	1.0	1.0m	MOS	14	1.5	0.0	15	200n	500m	0	70	CA150a	DL73	
6▼	IH5034CPA	A0	2	1	20	25m	200	1.0	1.0m	MOS	14	1.5	0.0	15	200n	500m	0	70	CA150	DL67	
7▼	IH5034CPD	A0	2	1	20	25m	200	1.0	1.0m	MOS	14	1.5	0.0	15	200n	500m	0	70	CA150a	DL63	
8▼	IH5034MDD	A0	2	1	20	25m	200	1.0	1.0m	MOS	14	1.5	0.0	15	200n	500m	55	125	CA150a	DL73	
9▼	IH5034MPA	A0	2	1	20	25m	200	1.0	1.0m	MOS	14	1.5	0.0	15	200n	500m	55	125	CA150	DL67	
10▼	IH5034MPD	A0	2	1	20	25m	200	1.0	1.0m	MOS	14	1.5	0.0	15	200n	500m	55	125	CA150a	DL63	
11▼	MM450H	A0	2	1	20	600	600	-10	1.0m	PMS	0.0†	-10	20	10	200n	200m	55	125	CA132	TO100	
12▼	MM550H	A0	2	1	20	600	600	-10	1.0m	PMS	0.0†	-10	20	10	200m	200m	25	70	CA132	TO100	
13▼	DG129AL	A0	2	2	20	30m	30	10	10m	NMS	2.5†	80†	18	12	600nt	750m	55	125	CA91	FP5a	
14▼	DG129AP	A0	2	2	20	30m	30	10	10m	NMS	2.5†	80†	18	12	600nt	825m	55	125	CA91a	DL8a	
15	MEM780D	A0	2	2	20	50m	30	6.0	1.0m	NMS	6.0†	-6.0†	6.0	0.0	600m	600m	65	125	CA72	DL7c	
16	MEM780F	A0	2	2	20	50m	30	6.0	1.0m	NMS	6.0†	-6.0†	6.0	0.0	600m	600m	65	125	CA72	FP24a	
17	MEM780P	A0	2	2	20	50m	30	6.0	1.0m	NMS	6.0†	-6.0†	6.0	0.0	600m	600m	65	85	CA72	DL24a	
18▼	DG129BL	A0	2	2	20	30m	50	10	10m	NMS	2.5†	80†	18	12	1.0u	750m	20	85	CA91	FP5a	
19▼	DG129BP	A0	2	2	20	30m	50	10	10m	NMS	2.5†	80†	18	12	1.0u	825m	20	85	CA91a	DL6a	
20#	SFF1122KM	A0	2	2	20	100m	450	-20	1.0m	PMS	-5.0Δs	-1.0*	30	30†	750m	750m	55	125	CA55	TO116	
21#	SFF1122PM	A0	2	2	20	100m	450	-20	1.0m	PMS	-5.0Δs	-1.0*	30	30†	750m	750m	55	125	CA55	TO86	
22#	SFF1122KT	A0	2	2	20	100m	500	-20	1.0m	PMS	-5.0Δs	-1.0*	30	30†	750m	750m	25	85	CA55	TO116	
23#	SFF1122PT	A0	2	2	20	100m	500	-20	1.0m	PMS	-5.0Δs	-1.0*	30	30†	750m	750m	25	85	CA55	TO86	
24▼	G122AL	A0	2	2	30	100m	450	20	1.0m	PMS	0.0†	-20†	20	0.0	750m	750m	55	125	CA107	FP5a	
25▼	G122BL	A0	2	2	30	100m	500	20	1.0m	PMS	0.0†	-20†	20	0.0	750m	750m	20	85	CA107	FP5a	
26#	SFF157E	A0	2	3	20	4.0k	4.0k	-10	1.0m	PMS	-5.0Δs	-2.8	20	10	300m	300m	0	70	CA54	DL47a	
27#	SFF157K	A0	2	3	20	4.0k	4.0k	-10	1.0m	PMS	-5.0Δs	-2.8	20	10	300m	300m	0	70	CA54	DL47a	
28#	SFF157KM	A0	2	3	20	4.0k	4.0k	-10	1.0m	PMS	-5.0Δs	-2.8	20	10	300m	300m	55	125	CA54	DL47a	
29▼	IH5029CDD	A0	3	1	20	25m	160	1.0	1.0m	MOS	14	1.5	0.0	15	200n	500m	0	70	CA148	DL73	
30▼	IH5029CPD	A0	3	1	20	25m	160	1.0	1.0m	MOS	14	1.5	0.0	15	200n	500m	0	70	CA148	DL63	
31▼	IH5029MDD	A0	3	1	20	25m	160	1.0	1.0m	MOS	14	1.5	0.0	15	200n	500m	55	125	CA148	DL73	
32▼	IH5029MPD	A0	3	1	20	25m	160	1.0	1.0m	MOS	14	1.5	0.0	15	200n	500m	55	125	CA148	DL63	
33▼	IH5030CDD	A0	3	1	20	25m	200	1.0	1.0m	MOS	14	1.5	0.0	15	200n	500m	0	70	CA148	DL73	
34▼	IH5030CPD	A0	3	1	20	25m	200	1.0	1.0m	MOS	14	1.5	0.0	15	200n	500m	0	70	CA148	DL63	
35▼	IH5030MDD	A0	3	1	20	25m	200	1.0	1.0m	MOS	14	1.5	0.0	15	200n	500m	55	125	CA148	DL73	
36▼	IH5030MPD	A0	3	1	20	25m	200	1.0	1.0m	MOS	14	1.5	0.0	15	200n	500m	55	125	CA148	DL63	
37▼	MM455H	A0	3	1	20	600	600	-10	1.0m	PMS	0.0†	-10	20	10	200m	200m	55	125	CA133	TO100	
38▼	MM555H	A0	3	1	20	600	600	-10	1.0m	PMS	0.0†	-10	20	10	200m	200m	25	70	CA133	TO100	
39▼	DG120CDD	A0	3	2	20	30m	100	10	100u	MOS	1.0Δ	40†	20	10	300n	750m	0	70	CA141	DL73	
40▼	DG120CFD	A0	3	2	20	30m	100	10	100u	MOS	1.0Δ	40†	20	10	300n	750m	0	70	CA141	FP12a	
41▼	DG120IFD	A0	3	2	20	30m	100	10	100u	MOS	1.0Δ	40†	20	10	300n	750m	20	85	CA141	DL73	
42▼	DG120IFD	A0	3	2	20	30m	100	10	100u	MOS	1.0Δ	40†	20	10	300n	750m	20	85	CA141	FP12a	
43▼	DG120MDD	A0	3	2	20	30m	100	10	100u	MOS	1.0Δ	40†	20	10	300n	750m	55	125	CA141	DL73	
44▼	DG120MFD	A0	3	2	20	30m	100	10	100u	MOS	1.0Δ	40†	20	10	300n	750m	55	125	CA141	FP12a	
45▼	DG121CDD	A0	3	2	20	30m	100	10	100u	MOS	4.1†	50†	20	10	300n	750m	0	70	CA142	DL73	
46▼	DG121CFD	A0	3	2	20	30m	100	10	100u	MOS	4.1†	50†	20	10	300n	750m	0	70	CA142	FP12a	
47▼	DG121IFD	A0	3	2	20	30m	100	10	100u	MOS	4.1†	50†	20	10	300n	750m	20	85	CA142	DL73	
48▼	DG121IFD	A0	3	2	20	30m	100	10	100u	MOS	4.1†	50†	20	10	300n	750m	20	85	CA142	FP12a	
49▼	DG121MDD	A0	3	2	20	30m	100	10	100u	MOS	4.1†	50†	20	10	300n	750m	55	125	CA142	DL73	
50▼	DG121MFD	A0	3	2	20	30m	100	10	100u	MOS	4.1†	50†	20	10	300n	750m	55	125	CA142	FP12a	
51#	SFF1119KM	A0	3	2	20	100m	450	-20	1.0m	PMS	-5.0Δs	-1.0*	30	30†	750m	750m	55	125	CA47	TO116	
52#	SFF1119PM	A0	3	2	20	100m	450	-20	1.0m	PMS	-5.0Δs	-1.0*	30	30†	750m	750m	55	125	CA47	TO116	
53#	SFF1119KT	A0	3	2	20	100m	500	-20	1.0m	PMS	-5.0Δs	-1.0*	30	30†	750m	750m	25	85	CA47	TO116	
54#	SFF1119PT	A0	3	2	20	100m	500	-20	1.0m	PMS	-5.0Δs	-1.0*	30	30†	750m	750m	25	85	CA47	TO116	
55#	SFF156E	A0	3	2	20	4.0k	4.0k	-10	1.0m	PMS	-5.0Δs	-2.8	20	10	300m	300m	0	70	CA53	DL47a	
56#	SFF156K	A0	3	2	20	4.0k	4.0k	-10	1.0m	PMS	-5.0Δs	-2.8	20	10	300m	300m	0	70	CA53	DL47a	
57#	SFF156KM	A0	3	2	20	4.0k	4.0k	-10	1.0m	PMS	-5.0Δs	-2.8	20	10	300m	300m	55	125	CA53	DL47a	
58▼	G119CDD	A0	3	2	30	100m	250	10	100u	PMS	0.0†	-20†	20	0.0	750m	750m	0	70	CA47	DL73	
59▼	G119CFD	A0	3	2	30	100m	250	10	100u	PMS	0.0†	-20†	20	0.0	750m	750m	0	70	CA47	FP12a	
60▼	G119IFD	A0	3	2	30	100m	250	10	100u	PMS	0.0†	-20†	20	0.0	750m	750m	20	85	CA47	DL73	
61▼	G119IFD	A0	3	2	30	100m	250	10	100u	PMS	0.0†	-20†	20	0.0	750m	750m	20	85	CA47	FP12a	
62▼	G119MDD	A0	3	2	30	100m	250	10	100u	PMS	0.0†										

15. ANALOG GATE SWITCHES: BILATERAL, MULTIPLE

IN ORDER OF: (1) SWITCH FORM (2) SWTS PER CKT
(3) CKTS PER DEV (4) PP SW V (5) Rds & (6) TYPE No.

LINE No.	TYPE NUMBER	1 SW-FORM		3 CKT PER DEV	4 MAXIMUM SW. VOLT. P-P		5 MAXIMUM DRAIN/SOURCE ON RESISTANCE		T E C H N	CONTROL LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. ON TIME tON (s)	MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS		
		A-SSNO	B-SSNC		VOLT. P-P	CURR. P-P (A)	Rds (Ω)	@ VD (V)		@ Is (A)	HIGH (min) (V)	LOW (max) (V)	NEG. (V)			POS. (V)	(-)	(+)	LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO
1▼	MM454F	A0	4	1	20		600	-10	PMS	0.0	12t	24	12		200m	55	125	CA136	FP40	
2▼	MM550FD	A0	4	1	20		600	-10	PMS	0.0		20	10		200m	25	70	CA153	FP12a	
3▼	MM550TW	A0	4	1	20		600	-10	PMS	0.0		20	10		200m	25	70	CA153	TO100	
4▼	MM551FD	A0	4	1	20		600	-10	PMS	0.0		20	10		200m	25	70	CA154	FP12a	
5▼	MM551H	A0	4	1	20		600	-10	PMS	0.0t	-10	20	10		200m	25	70	CA137	TO100	
6▼	MM551TW	A0	4	1	20		600	-10	PMS	0.0		20	10		200m	25	70	CA154	TO100	
7▼	MM552D	A0	4	1	20		600	-10	PMS	0.0t	-10	20	10		200m	25	70	CA134	DL124	
8▼	MM552F	A0	4	1	20		600	-10	PMS	0.0t	-10	20	10		200m	25	70	CA134	FP40	
9▼	MM554F	A0	4	1	20		600	-10	PMS	0.0	12t	24	12		200m	25	70	CA136	FP40	
10▼	G124AL	A0	4	1	30	100m	450	20	1.0m	PMS	0.0t	-20t	20	0.0	750m	55	125	CA108	FP5a	
11▼	G124BL	A0	4	1	30	100m	500	20	1.0m	PMS	0.0t	-20t	20	0.0	750m	20	85	CA108	FP5a	
12▼	G132IFD	A0	4	1	45t	50m	45	0.0	0.0	NMS	0.0	-20t	20	0.0	500m	20	85	CA110	FP12a	
13▼	G132MFD	A0	4	1	45t	50m	45	0.0	0.0	NMS	0.0	-20t	20	0.0	500m	55	125	CA110	FP12a	
14▼	G131IFD	A0	4	1	90t	50m	90	0.0	0.0	NMS	0.0	-20t	20	0.0	500m	20	85	CA110	FP12a	
15▼	G131MFD	A0	4	1	90t	50m	90	0.0	0.0	NMS	0.0	-20t	20	0.0	500m	55	125	CA110	FP12a	
16▼	G123AL	A0	4	2	20	100m	450	20	1.0m	PMS	0.0t	-20t	20	0.0	750m	55	125	CA49	FP5a	
17▼	G123AP	A0	4	2	20	100m	450	20	1.0m	PMS	0.0t	-20t	20	0.0	825m	55	125	CA49	DL6a	
18▼	G123BL	A0	4	2	20	100m	500	20	1.0m	PMS	0.0t	-20t	20	0.0	750m	20	85	CA49	FP5a	
19▼	G123BP	A0	4	2	20	100m	500	20	1.0m	PMS	0.0t	-20t	20	0.0	825m	20	85	CA49	DL6a	
20▼	AH5009CN	A0	5	1	20	30m	100	1.5	2.0m	TTL	0.0t	15t	0.0	15	500m	500m	25	85	CA123	DL54
21▼	AM97C09CN	A0	5	1	20	30m	100	0.0	2.0m	CMS	0.0t	15	0.0	15	500m	500m	25	85	CA123	DL54
22▼	AM9709CN	A0	5	1	20	30m	100	1.5	2.0m	TTL	0.0t	15t	0.0	15	500m	500m	25	85	CA123	DL54
23▼	DG123CDD	A0	5	1	20	30m	100	10	100u	PMS	1.0Δ	.40t	20	20	300m	750m	0	70	CA139	DL73
24▼	DG123CFD	A0	5	1	20	30m	100	10	100u	PMS	1.0Δ	.40t	20	20	300m	750m	0	70	CA139	FP12a
25▼	DG123IDD	A0	5	1	20	30m	100	10	100u	PMS	1.0Δ	.40t	20	20	300m	750m	20	85	CA139	DL73
26▼	DG123IFD	A0	5	1	20	30m	100	10	100u	PMS	1.0Δ	.40t	20	20	300m	750m	20	85	CA139	FP12a
27▼	DG123MDD	A0	5	1	20	30m	100	10	100u	PMS	1.0Δ	.40t	20	20	300m	750m	55	125	CA139	DL73
28▼	DG123MFD	A0	5	1	20	30m	100	10	100u	PMS	1.0Δ	.40t	20	20	300m	750m	55	125	CA139	FP12a
29▼	DG125CDD	A0	5	1	20	30m	100	10	100u	PMS	4.1t	.50t	20	20	300m	750m	0	70	CA140	DL73
30▼	DG125CFD	A0	5	1	20	30m	100	10	100u	PMS	4.1t	.50t	20	20	300m	750m	0	70	CA140	FP12a
31▼	DG125IDD	A0	5	1	20	30m	100	10	100u	PMS	4.1t	.50t	20	20	300m	750m	20	85	CA140	DL73
32▼	DG125IFD	A0	5	1	20	30m	100	10	100u	PMS	4.1t	.50t	20	20	300m	750m	20	85	CA140	FP12a
33▼	DG125MDD	A0	5	1	20	30m	100	10	100u	PMS	4.1t	.50t	20	20	300m	750m	55	125	CA140	DL73
34▼	DG125MFD	A0	5	1	20	30m	100	10	100u	PMS	4.1t	.50t	20	20	300m	750m	55	125	CA140	FP12a
35▼	AH5010CN	A0	5	1	20	30m	150	.35	2.0m	TTL	0.0t	5.0t	0.0	15	500m	500m	25	85	CA123	DL54
36▼	AM97C10CN	A0	5	1	20	30m	150	0.0	2.0m	CMS	0.0t	10	0.0	15	500m	500m	25	85	CA123	DL54
37▼	AM9710CN	A0	5	1	20	30m	150	.35	2.0m	TTL	0.0t	5.0t	0.0	15	500m	500m	25	85	CA123	DL54
38▼	DG123AL	A0	5	1	20	30m	450	10	1.0m	PMS	1.0	.40	20	10	300m	750m	55	125	CA63	FP5a
39▼	DG123AP	A0	5	1	20	30m	450	10	1.0m	PMS	1.0	.40	20	10	300m	825m	55	125	CA63	DL6a
40▼	DG125AL	A0	5	1	20	30m	450	10	1.0m	PMS	4.1t	.50t	20	10	300m	750m	55	125	CA64	FP5a
41▼	DG125AP	A0	5	1	20	30m	450	10	1.0m	PMS	4.1t	.50t	20	10	300m	825m	55	125	CA64	DL6a
42#	SFF1116KM	A0	5	1	20	100m	450	-20	1.0m	PMS	-5.0Δ	-1.0*	30	30	750m	750m	55	125	CA44	TO116
43#	SFF1116PM	A0	5	1	20	100m	450	-20	1.0m	PMS	-5.0Δ	-1.0*	30	30	750m	750m	55	125	CA44	TO86
44▼	DG123BL	A0	5	1	20	30m	500	10	1.0m	PMS	1.0	.40	20	10	500m	750m	20	85	CA63	FP5a
45▼	DG123BP	A0	5	1	20	30m	500	10	1.0m	PMS	1.0	.40	20	10	500m	825m	20	85	CA63	DL6a
46▼	DG125BL	A0	5	1	20	30m	500	10	1.0m	PMS	4.1t	.50t	20	10	500m	750m	20	85	CA64	FP5a
47▼	DG125BP	A0	5	1	20	30m	500	10	1.0m	PMS	4.1t	.50t	20	10	500m	825m	20	85	CA64	DL6a
48#	SFF1116KT	A0	5	1	20	100m	500	-20	1.0m	PMS	-5.0Δ	-1.0*	30	30	750m	750m	25	85	CA44	TO116
49#	SFF1116PT	A0	5	1	20	100m	500	-20	1.0m	PMS	-5.0Δ	-1.0*	30	30	750m	750m	25	85	CA44	TO86
50#	G116CDD	A0	5	1	30	100m	250	10	100u	PMS	0.0	-20t	20	0.0	750m	0	70	CA44	DL73	
51#	G116CFD	A0	5	1	30	100m	250	10	100u	PMS	0.0	-20t	20	0.0	750m	0	70	CA44	FP12a	
52#	G116IDD	A0	5	1	30	100m	250	10	100u	PMS	0.0	-20t	20	0.0	750m	20	85	CA44	DL73	
53#	G116IFD	A0	5	1	30	100m	250	10	100u	PMS	0.0	-20t	20	0.0	750m	20	85	CA44	FP12a	
54#	G116MDD	A0	5	1	30	100m	250	10	100u	PMS	0.0	-20t	20	0.0	750m	55	125	CA44	DL73	
55#	G116MFD	A0	5	1	30	100m	250	10	100u	PMS	0.0	-20t	20	0.0	750m	55	125	CA44	FP12a	
56▼	G116AL	A0	5	1	30	100m	450	20	1.0m	PMS	0.0t	-20t	20	0.0	750m	55	125	CA44	FP5a	
57▼	G116AP	A0	5	1	30	100m	450	20	1.0m	PMS	0.0t	-20t	20	0.0	825m	55	125	CA44	DL6a	
58▼	G116BL	A0	5	1	30	100m	500	20	1.0m	PMS	0.0t	-20t	20	0.0	750m	20	85	CA44	FP5a	
59▼	AM2009CD	A0	6	1	20	50m	250	-20	100u	PMS			20	0.0	900m	55	125	CA128	DL124	
60▼	AM2009CF	A0	6	1	20	50m	250	-20	100u	PMS			20	0.0	900m	55	125	CA128	FP40	
61▼	AM2009D	A0	6	1	20	50m	250	-20	100u	PMS			20	0.0	900m	55	125	CA128	DL124	
62▼	AM2009F	A0	6	1	20	50m	250	-20	100u	PMS			20	0.0	900m	55	125	CA128	FP40	
63▼	MM4504D	A0	6	1	20	50m	250	-20	100u	PMS			20	0.0	900m	25	85	CA128a	DL124	
64▼	MM4504F	A0	6	1	20	50m	250	-20	100u	PMS			20	0.0	900m	25	85	CA128a	FP40	
65▼	MM5504D	A0	6	1	20	50m	250	-20	100u	PMS			20	0.0	900m	25	85	CA128a	DL124	
66▼	MM5504F	A0	6	1	20	50m	250	-20	100u	PMS			20	0.0	900m	25	85	CA128a	FP40	
67▼	G117AL	A0	6	1	20	100m	450	20	1.0m	PMS	0.0t	-20t	20	0.0	750m	55	125	CA45	FP5a	
68▼	G117BL	A0	6	1	20	100m	450	20	1.0m	PMS	0.0t	-20t	20	0.0	750m	55	125	CA46	FP5a	
69▼	G117AP	A0	6	1	20	100m	450	20	1.0m	PMS	0.0t	-20t	20	0.0	825m	55	125	CA46	DL6a	
70#	SFF1117PM	A0	6	1	20	100m	450	-20	1.0m	PMS	-5.0Δ	-1.0*	30	30	750m	55	125	CA48	FP10	
71#	SFF1117KM	A0	6	1	20	100m	450	-20	1.0m	PMS	-5.0Δ	-1.0*	30	30	750m	55	125	CA45	TO116	
72#	SFF1117PM	A0	6	1	20	100m	450	-20	1.0m	PMS	-5.0Δ	-1.0*	30	30	750m	55	125	CA45	TO86	
73#	SFF1118KM	A0	6	1	20	100m	450	-20	1.0m	PMS	-5.0Δ	-1.0*	30	30	750m	55	125	CA46	TO116	
74#	SFF1118PM	A0	6	1	20	100m	450	-20	1.0m	PMS	-5.0Δ	-1.0*	30	30	750m	55	125	CA46	TO86	
75▼	G117BL	A0	6	1	20															

15. ANALOG GATE SWITCHES: BILATERAL MULTIPLE

IN ORDER OF: (1) SWITCH FORM (2) SWTS PER CKT
(3) CKTS PER DEV (4) PP SW V (5) Rds & (6) TYPE No.

LINE No.	TYPE NUMBER	1 SW-FORM A-SSNO B-SSNC C-SPDT	2 SWTS PER CKT	3 CKT PER DEV	4 MAXIMUM			5 MAXIMUM			T E C H N	CONTROL LOGIC LEVEL		RATED SUPPLY SPAN		MAX. ON TIME TON (s)	MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS	
					VOLT. P-P (V)	CURR. P-P (A)	RDS (Ω)	@ VD (V)	@ Is (A)	ON RESISTANCE (Ω)		HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)			(-) (°C)	(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No.
1	G118MFD	A0	6	1	30	100m	250	10	100u	10m	PMS	0.0	-20t	20	0.0	750m	55	125	CA46	FP12a	
2	MX02D	A0	6	1	30	10u	500			10m	MOS	-6.0s	0.0	30	0.0		55	125	CA84	DL7z	
3	MX52D	A0	6	1	30	10u	500			10m	MOS	-6.0s	0.0	30	0.0		55	125	CA87	FP3c	
4	MEM856D	A0	6	1	40	1.0m	1.0k	20	100u	10m	PMS	0.0t	-20t			300m	65	125	CA75	DL7c	
5	MEM856F	A0	6	1	40	1.0m	1.0k	20	100u	10m	PMS	0.0t	-20t			300m	65	125	CA75	FP24a	
6	MEM856P	A0	6	1	40	1.0m	1.0k	20	100u	10m	PMS	0.0t	-20t			300m	65	85	CA75	DL24a	
7	MX03C	A0	10	1	30	10u	500			10m	MOS	-6.0s	0.0	30	0.0		55	125	CA85	FP2	
8	MX53C	A0	10	1	30	10u	500			10m	MOS	-6.0s	0.0	30	0.0		55	125	CA86	FP34	
9	DG187AAA	AA	2	1	20	30m	30	7.5	10m	NMS	2.0	.80		15	15	150n	55	125	CA97	CN4a	
10	DG187ALA	AA	2	1	20	30m	30	7.5	10m	NMS	2.0	.80	15	15	150n	55	125	CA97a	FP5a		
11	DG187AP	AA	2	1	20	30m	30	7.5	10m	NMS	2.0	.80	15	15	150n	55	125	CA97b	DL6a		
12	DG187BA	AA	2	1	20	30m	30	7.5	10m	NMS	2.0	.80	15	15	180n	50	85	CA97	CN4a		
13	DG187BLA	AA	2	1	20	30m	50	7.5	10m	NMS	2.0	.80	15	15	180n	750m	20	85	CA97a	FP5a	
14	DG187BP	AA	2	1	20	30m	50	7.5	10m	NMS	2.0	.80	15	15	180n	825m	20	85	CA97b	DL6a	
15	LF11333D	AB	1	4	20	20m	200	0.0	1.0m	MOS	2.0	.80	15	15	500n	900m	55	125	CA135b	DL125	
16	LF12333D	AB	1	4	20	20m	250	0.0	1.0m	MOS	2.0	.80	15	15	500n	900m	25	85	CA135b	DL125	
17	LF12333N	AB	1	4	20	20m	250	0.0	1.0m	MOS	2.0	.80	15	15	500n	500m	25	85	CA135b	DL126	
18	LF13333D	AB	1	4	20	20m	250	0.0	1.0m	MOS	2.0	.80	15	15	500n	900m	0	70	CA135b	DL125	
19	LF13333N	AB	1	4	20	20m	250	0.0	1.0m	MOS	2.0	.80	15	15	500n	500m	0	70	CA135b	DL126	
20	DG161AL	AB	2	1	15	30m	15	7.5	10m	NMS	3.0	2.0	15	15	1.0u	750m	55	125	CA94	FP5a	
21	DG161AP	AB	2	1	15	30m	15	7.5	10m	NMS	3.0	2.0	15	15	1.0u	825m	55	125	CA94a	DL6a	
22	DG161BL	AB	2	1	15	30m	20	5.5	10m	NMS	3.0	2.0	15	15	1.5u	750m	20	85	CA94	FP5a	
23	DG161BP	AB	2	1	15	30m	20	5.5	10m	NMS	3.0	2.0	15	15	1.5u	825m	20	85	CA94a	DL6a	
24	DG162AL	AB	2	1	15	30m	50	7.5	10m	NMS	3.0	2.0	15	15	800n	750m	55	125	CA94	FP5a	
25	DG162AP	AB	2	1	15	30m	50	7.5	10m	NMS	3.0	2.0	15	15	800n	825m	55	125	CA94a	DL6a	
26	IHS042BCDE	AB	2	1	15	20m	80	7.5	1.0m	CMS	3.0	.80	15	15	500n	450m	0	70	CA35g	DL66	
27	IHS042BCPE	AB	2	1	15	20m	80	7.5	1.0m	CMS	3.0	.80	15	15	500n	450m	0	70	CA35g	DL61a	
28	IHS042BCTW	AB	2	1	15	20m	80	7.5	1.0m	CMS	3.0	.80	15	15	500n	450m	0	70	CA35h	TO100	
29	IHS042BMDE	AB	2	1	15	20m	80	7.5	1.0m	CMS	3.0	.80	15	15	500n	450m	55	125	CA35g	DL66	
30	IHS042BMFD	AB	2	1	15	20m	80	7.5	1.0m	CMS	3.0	.80	15	15	500n	450m	55	125	CA35f	FP12	
31	IHS042BMTW	AB	2	1	15	20m	80	7.5	1.0m	CMS	3.0	.80	15	15	500n	450m	55	125	CA35h	TO100	
32	DG162BL	AB	2	1	15	30m	100	5.5	10m	NMS	3.0	2.0	15	15	1.0u	750m	20	85	CA94	FP5a	
33	DG162BP	AB	2	1	15	30m	100	5.5	10m	NMS	3.0	2.0	15	15	1.0u	825m	20	85	CA94a	DL6a	
34	DG146ADD	AB	2	1	20	30m	10	10	1.0m	MOS	2.5	1.0	18	12		750m	55	125	CA94a	DL7c	
35	DG146AFD	AB	2	1	20	30m	10	10	1.0m	MOS	2.5	1.0	18	12		750m	55	125	CA94	FP12a	
36	DG146AL	AB	2	1	20	30m	10	10	1.0m	NMS	3.0	2.0	18	12	1.0u	750m	55	125	CA94	FP5a	
37	DG146AP	AB	2	1	20	30m	10	10	1.0m	NMS	3.0	2.0	18	12	1.0u	825m	55	125	CA94a	DL6a	
38	DG146BDD	AB	2	1	20	30m	10	10	1.0m	MOS	2.5	1.0	18	12		750m	25	85	CA94a	DL7c	
39	DG146BFD	AB	2	1	20	30m	10	10	1.0m	MOS	2.5	1.0	18	12		750m	25	85	CA94	FP12a	
40	DG186AA	AB	2	1	20	30m	10	-7.5	10m	NMS	2.0t	.80t	15	15	300n	450m	55	125	CA97	TO100	
41	DG186AAΔ	AB	2	1	20	200m	10	7.5	10m	NMS	2.0	.80	15	15	300n	450m	55	125	CA97	CN4a	
42	DG186AL	AB	2	1	20	30m	10	-7.5	10m	NMS	2.0t	.80t	15	15	300n	750m	55	125	CA97a	FP12	
43	DG186ALΔ	AB	2	1	20	200m	10	7.5	10m	NMS	2.0	.80	15	15	300n	750m	55	125	CA97a	FP5a	
44	DG186AP	AB	2	1	20	30m	10	-7.5	10m	NMS	2.0t	.80t	15	15	300n	825m	55	125	CA97b	DL7c	
45	DG186APΔ	AB	2	1	20	200m	10	7.5	10m	NMS	2.0	.80	15	15	300n	825m	55	125	CA97b	DL6a	
46	DG146BL	AB	2	1	20	30m	15	8.0	10m	NMS	3.0	2.0	18	12	1.5u	750m	20	85	CA94	FP5a	
47	DG146BP	AB	2	1	20	30m	15	8.0	10m	NMS	3.0	2.0	18	12	1.5u	825m	20	85	CA94a	DL6a	
48	DG161ADD	AB	2	1	20	30m	15	7.5	10m	MOS	2.5	1.0	15	15		750m	55	125	CA94a	DL7c	
49	DG161AFD	AB	2	1	20	30m	15	7.5	10m	MOS	2.5	1.0	15	15		750m	55	125	CA94	FP12a	
50	DG161BDD	AB	2	1	20	30m	15	7.5	10m	MOS	2.5	1.0	15	15		750m	25	85	CA94a	DL7c	
51	DG161BFD	AB	2	1	20	30m	15	7.5	10m	MOS	2.5	1.0	15	15		750m	25	85	CA94	FP12a	
52	DG186BA	AB	2	1	20	30m	15	-7.5	10m	NMS	2.0t	.80t	15	15	350n	450m	20	85	CA97	TO100	
53	DG186BAΔ	AB	2	1	20	200m	15	7.5	10m	NMS	2.0	.80	15	15	350n	450m	20	85	CA97	CN4a	
54	DG186BL	AB	2	1	20	30m	15	-7.5	10m	NMS	2.0t	.80t	15	15	350n	750m	20	85	CA97a	FP12	
55	DG186BLΔ	AB	2	1	20	200m	15	7.5	10m	NMS	2.0	.80	15	15	350n	750m	20	85	CA97a	FP5a	
56	DG186BP	AB	2	1	20	30m	15	-7.5	10m	NMS	2.0t	.80t	15	15	350n	825m	20	85	CA97b	DL7c	
57	DG186BPA	AB	2	1	20	200m	15	7.5	10m	NMS	2.0	.80	15	15	350n	825m	20	85	CA97b	DL6a	
58	DG144ADD	AB	2	1	20	30m	30	10	1.0m	MOS	2.5	1.0	18	12		750m	55	125	CA94a	DL7c	
59	DG144AFD	AB	2	1	20	30m	30	10	1.0m	MOS	2.5	1.0	18	12		750m	55	125	CA94	FP12a	
60	DG144AL	AB	2	1	20	30m	30	10	1.0m	NMS	3.0	2.0	18	12	800n	750m	55	125	CA94	FP5a	
61	DG144AP	AB	2	1	20	30m	30	10	1.0m	NMS	3.0	2.0	18	12	800n	825m	55	125	CA94a	DL6a	
62	DG144BDD	AB	2	1	20	30m	30	10	1.0m	MOS	2.5	1.0	18	12		750m	25	85	CA94a	DL7c	
63	DG144BFD	AB	2	1	20	30m	30	10	1.0m	MOS	2.5	1.0	18	12		750m	25	85	CA94	FP12a	
64	DG187AA	AB	2	1	20	30m															

15. ANALOG GATE SWITCHES: BILATERAL MULTIPLE

IN ORDER OF: (1) SWITCH FORM (2) SWTS PER CKT
(3) CKTS PER DEV (4) PP SW V (5) Rds & (6) TYPE No.

LINE No.	TYPE NUMBER	1 SW-FORM		3 CKT PER DEV	4 MAXIMUM			5 MAXIMUM			CONTROL LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. TIME tON (s)	MAX. PWR. DISS. (W)	MAX. OPERATE. TEMP. (°C)	DRAWINGS LOGIC DWG. No.	OUTLINE DWG. No.		
		A-SSNC	B-SSNC		SW VOLT. P-P (V)	SW CURR. P-P (A)	DRAIN/SOURCE ON RESISTANCE Rds (Ω)	VD (V)	Is (A)	HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)								
1	DG188BA	AB	Z	2	1	20	30m	100	10	10m	CMS	2.4	.80	15	15	280n	450m	20	85	CA97	TO100
2	DG188BAΔ	AB	Z	2	1	20	30m	100	10	10m	NMS	2.0	.80	15	15	300n	450m	20	85	CA97	CN4a
3	DG188BL	AB	Z	2	1	20	30m	100	10	10m	CMS	2.4	.80	15	15	280n	450m	20	85	CA97a	FP12
4	DG188BLΔ	AB	Z	2	1	20	30m	100	10	10m	NMS	2.0	.80	15	15	300n	750m	20	85	CA97a	FP5a
5	DG188BP	AB	Z	2	1	20	30m	100	10	10m	NMS	2.0	.80	15	15	300n	825m	20	85	CA97b	DL6a
6	DG188BP#1	AB	Z	2	1	20	30m	100	10	10m	CMS	2.4	.80	15	15	280n	450m	20	85	CA97b	DL69
7	DG188BP#2	AB	Z	2	1	20	30m	100	10	10m	CMS	2.4	.80	15	15	280n	450m	20	85	CA97b	DL71
8	IH188CDD	AB	Z	2	1	20	30m	100	10	10m	CMS	2.4	.80	15	15	300n	450m	20	85	CA34g	DL62
9	IH188CFD	AB	Z	2	1	20	30m	100	10	10m	CMS	2.4	.80	15	15	300n	450m	20	85	CA34f	FP12
10	IH188CTW	AB	Z	2	1	20	30m	100	10	10m	CMS	2.4	.80	15	15	300n	450m	20	85	CA34e	TO100
11	TL188CL	AB	Z	2	1	20		100	-10	1.0m	MOS	2.0	.80	15	15	175nf	120m	0	70	CA26	CN4
12	TL188CN	AB	Z	2	1	20		100	-10	1.0m	MOS	2.0	.80	15	15	175nf	120m	0	70	CA26	DL24
13	TL188IL	AB	Z	2	1	20		100	-10	1.0m	MOS	2.0	.80	15	15	175nf	120m	25	85	CA26	CN4
14	TL188IN	AB	Z	2	1	20		100	-10	1.0m	MOS	2.0	.80	15	15	175nf	120m	25	85	CA26	DL24
15	DG175AA	AB	Z	2	1	20	20m	200	10	1.0m	PMS	2.0†	.80†	20	10	200n	450m	55	125	CA68	CN4a
16	SH3003HC	AB	Z	2	1	20	10m	200	100u	1.0	TTL	1.9	1.1	22	11	400n	231m	0	75	CA51	TO100
17	SH3003HM	AB	Z	2	1	20	10m	200	100u	1.0	TTL	1.9	1.1	22	11	350n	231m	55	125	CA51	TO100
18	DG175BA	AB	Z	2	1	20	20m	250	10	1.0m	PMS	2.0†	.80†	20	10	200n	450m	20	85	CA68	CN4a
19	IHS042MDE	AB	Z	2	1	22	20m	75	10	1.0m	CMS	2.4	.80	15	15	500n	450m	55	125	CA35g	DL66
20	IHS042MFD	AB	Z	2	1	22	20m	75	10	1.0m	CMS	2.4	.80	15	15	500n	450m	55	125	CA35f	FP12
21	IHS042MTW	AB	Z	2	1	22	20m	75	10	1.0m	CMS	2.4	.80	15	15	500n	450m	55	125	CA35h	TO100
22	CAG7	AB	Z	2	1	25	100m	6.0	10	1.0m	HYB	3.0	.60	15	15	2.0u	1.4	55	125	CA2	CN1b
23	CAG7-10	AB	Z	2	1	25	100m	10	10	1.0m	HYB	3.0	.60	15	15	2.0u	1.4	55	125	CA2	CN1b
24	AH0161CD	AB	Z	2	1	25	30m	15	7.5	1.0m	TTL	2.5	.80	15	15	1.0u	500m	55	125	CA122	DL124
25	AH0161D	AB	Z	2	1	25	30m	15	7.5	1.0m	TTL	2.5	.80	15	15	800n	500m	55	125	CA122	DL124
26	AH0162CD	AB	Z	2	1	25	30m	50	7.5	1.0m	TTL	2.5	.80	15	15	800n	500m	55	125	CA122	DL124
27	AH0162D	AB	Z	2	1	25	30m	50	7.5	1.0m	TTL	2.5	.80	15	15	800n	500m	55	125	CA122	DL124
28	AH0146CD	AB	Z	2	1	30	30m	10	10	1.0m	TTL	2.5	.80	18	12	1.0u	500m	55	125	CA122	DL124
29	AH0146D	AB	Z	2	1	30	30m	10	10	1.0m	TTL	2.5	.80	18	12	1.0u	500m	55	125	CA122	DL124
30	AH0144CD	AB	Z	2	1	30	30m	30	10	1.0m	TTL	2.5	.80	18	12	800n	500m	55	125	CA122	DL124
31	AH0144D	AB	Z	2	1	30	30m	30	10	1.0m	TTL	2.5	.80	18	12	800n	500m	55	125	CA122	DL124
32	AH0143CD	AB	Z	2	1	30	30m	80	10	1.0m	TTL	2.5	.80	18	12	800n	500m	25	85	CA122	DL124
33	AH0143D	AB	Z	2	1	30	30m	80	10	1.0m	TTL	2.5	.80	18	12	800n	500m	55	125	CA122	DL124
34	TL604JG	AB	Z	2	1	30	10m	100	10	1.0m	PMS	2.0	.80	20	10	150n	150m	25	85	CA21	DL27
35	TL604IP	AB	Z	2	1	30	10m	100	10	1.0m	PMS	2.0	.80	20	10	150n	150m	25	85	CA21	DL28
36	TL604MJG	AB	Z	2	1	30	10m	100	10	1.0m	PMS	2.0	.80	20	10	150n	150m	55	125	CA21	DL27
37	TL604CJG	AB	Z	2	1	30	10m	200	10	1.0m	PMS	2.0	.80	20	10	150n	150m	0	70	CA21	DL27
38	TL604CP	AB	Z	2	1	30	10m	200	10	1.0m	PMS	2.0	.80	20	10	150n	150m	0	70	CA21	DL28
39	DG301AA	AB	Z	2	1	32	30m	50	10	1.0m	CMS	4.0	.80	15	15	300n	450m	55	125	CA101	CN4a
40	DG301AL	AB	Z	2	1	32	30m	50	10	1.0m	CMS	4.0	.80	15	15	300n	750m	55	125	CA102	FP38
41	DG301AP	AB	Z	2	1	32	30m	50	10	1.0m	CMS	4.0	.80	15	15	300n	825m	55	125	CA102	DL6a
42	DG301BA	AB	Z	2	1	32	30m	50	10	1.0m	CMS	4.0	.80	15	15	300n	450m	20	85	CA101	CN4a
43	DG301BL	AB	Z	2	1	32	30m	50	10	1.0m	CMS	4.0	.80	15	15	300n	750m	20	85	CA102	FP38
44	DG301BP	AB	Z	2	1	32	30m	50	10	1.0m	CMS	4.0	.80	15	15	300n	825m	20	85	CA102	DL6a
45	DG301CJ	AB	Z	2	1	32	30m	50	10	1.0m	CMS	4.0	.80	15	15	150nf	470m	0	70	CA102	DL54a
46	DG305AA	AB	Z	2	1	32	30m	50	10	1.0m	CMS	1.1	3.5	15	15	250n	450m	55	125	CA101	CN4a
47	DG305AL	AB	Z	2	1	32	30m	50	10	1.0m	CMS	1.1	3.5	15	15	250n	750m	55	125	CA102	FP38
48	DG305AP	AB	Z	2	1	32	30m	50	10	1.0m	CMS	1.1	3.5	15	15	250n	825m	55	125	CA102	DL6a
49	DG305BA	AB	Z	2	1	32	30m	50	10	1.0m	CMS	1.1	3.5	15	15	250n	450m	20	85	CA101	CN4a
50	DG305BL	AB	Z	2	1	32	30m	50	10	1.0m	CMS	1.1	3.5	15	15	250n	750m	20	85	CA102	FP38
51	DG305BP	AB	Z	2	1	32	30m	50	10	1.0m	CMS	1.1	3.5	15	15	250n	825m	20	85	CA102	DL6a
52	DG305CJ	AB	Z	2	1	32	30m	50	10	1.0m	CMS	1.1	3.5	15	15	110nf	470m	0	70	CA102	DL54a
53	IHS043BCDE	AB	Z	2	2	15	20m	80	7.5	1.0m	CMS	3.0	.80	15	15	500n	450m	0	70	CA35j	DL66
54	IHS043BCPE	AB	Z	2	2	15	20m	80	7.5	1.0m	CMS	3.0	.80	15	15	500n	450m	0	70	CA35j	DL61a
55	IHS043BMDE	AB	Z	2	2	15	20m	80	7.5	1.0m	CMS	3.0	.80	15	15	500n	450m	55	125	CA35j	DL66
56	IHS043BMFD	AB	Z	2	2	15	20m	80	7.5	1.0m	CMS	3.0	.80	15	15	500n	450m	55	125	CA35i	FP12
57	DG189AL	AB	Z	2	2	20	30m	10	-7.5	1.0m	NMS	2.0†	.80†	15	15	300n	750m	55	125	CA98	FP12
58	DG189ALΔ	AB	Z	2	2	20	30m	10	-7.5	1.0m	NMS	2.0	.80	15	15	300n	750m	55	125	CA98a	FP5a
59	DG189AP	AB	Z	2	2	20	30m	10	-7.5	1.0m	NMS	2.0†	.80†	15	15	300n	825m	55	125	CA98a	DL88
60	DG189APΔ	AB	Z	2	2	20	30m	10	-7.5	1.0m	NMS	2.0	.80	15	15	300n	825m	55	125	CA98a	DL88
61	DG189BL	AB	Z	2	2	20	30m	15	-7.5	1.0m	NMS	2.0†	.80†	15	15	350n	750m	20	85	CA98	FP12
62	DG189BLΔ	AB	Z	2	2	20	30m	15	-7.5	1.0m	NMS	2.0	.80	15	15	350n	750m	20	85	CA98	FP5a
63	DG189BP	AB	Z	2	2	20	30m	15	-7.5	1.0m	NMS	2.0†	.80†	15	15	350n	825m	20	85	CA98a	DL61b
64	DG189BPΔ	AB	Z	2	2	20	30m	15	-7.5	1.0m	NMS	2.0	.80	15	15	350n	825m	20	85	CA98a	DL88
65	DG190AL	AB	Z	2	2	20	30m	30	7.5	1.0m	CMS	2.4	.80	15	15	250n	450m	55	125	CA98	FP12
66	DG190ALΔ	AB	Z	2	2	20	30m	30	7.5	1.0m	NMS	2.0	.80	15	15	150n	750m	55	125	CA98	FP5a
67	DG190AP	AB	Z	2	2	20	30m	30	7.5	1.0m	NMS	2.0	.80	15	15	150n	900m	55	125	CA98a	DL88
68	DG190AP#1	AB	Z	2	2	20	30m	30	7.5	1.0m	CMS	2.4	.80	15	15	250n	450m	55	125	CA98a	DL61
69	DG190AP#2	AB	Z	2	2	20	30m	30	7.5	1.0m	CMS	2.4	.80	15	15	250n	450m	55	125	CA98a	DL70
70	IH190MDE	AB	Z	2	2	20	30m	30	7.5	1.0m	CMS	2.4	.80	15	15	250n	450m	55	125	CA34i	DL61b
71	IH190MFD	AB	Z	2	2	20	30m	30	7.5	1.0m	CMS	2.4	.80	15	15	250n	450m	55	125	CA34h	FP12
72	IHS051MDE	AB	Z																		

15. ANALOG GATE SWITCHES-BILATERAL,MULTIPLE

IN ORDER OF:(1)SWITCH FORM(2)SWts PER CKT (3)CKTS PER DEV(4)PP SW V(5)Rds &(6)TYPE No.

Table with columns: LINE No., TYPE NUMBER, SW-FORM, A-SSNC, SWs PER CKT, CKT PER DEV, MAXIMUM SW. VOLT., MAXIMUM SW. CURR., DRAIN/SOURCE Rds, @ VD, @ Is, T E C H N, CONTROL LOGIC LEVEL, HIGH, LOW, RATED PWR. SUPPLY SPAN, MAX. ON TIME, MAX. OPERATE PWR. DISS., OPER. TEMP., LOGIC DWG. No., OUTLINE DWG. No.

15. ANALOG GATE SWITCHES: BILATERAL, MULTIPLE

IN ORDER OF: (1) SWITCH FORM (2) SWTs PER CKT
(3) CKTS PER DEV (4) PP SW (V) (5) Rds & (6) TYPE No.

LINE No.	TYPE NUMBER	1 SW-FORM		3 MAXIMUM		5 MAXIMUM			T E C H	CONTROL LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. ON TIME (s)	MAX. OPERATE PWR. DISS. (W)	OPER. TEMP. (°C)	DRAWINGS			
		A-SSNO	2 SW/CKT	4 SW. VOLT. P-P (V)	SW. CURR. P-P (A)	DRAIN/SOURCE Rds (Ω)	@ Vd (V)	@ Is (A)		HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)				LOGIC DWG. No.	OUTLINE DWG. No.		
		B-SSNC C-SPDT	PER CKT	PER DEV	PER DEV															
1	AD7513JN	B	1	2	25	50m	80	10	1.0m	CMS	3.0	.80	15	15	700n	30m	0	70	CA81	DL3a
2	AD7513KH	B	1	2	25	50m	80	10	1.0m	CMS	2.4	.80	15	15	1.0u	30m	0	70	CA81a	TO100
3	AD7513KN	B	1	2	25	50m	80	10	1.0m	CMS	2.4	.80	15	15	1.0u	30m	0	70	CA81	DL3a
4	AD7513SH	B	1	2	25	50m	80	10	1.0m	CMS	3.0	.80	15	15	700n	30m	55	125	CA81a	TO100
5	AD7513TH	B	1	2	25	50m	80	10	1.0m	CMS	2.4	.80	15	15	1.0u	30m	55	125	CA81a	TO100
6	H11-5048-2	B	1	2	30	80m	25 t	10	1.0m	CMS	3.0	.80	15	15	1.0u	1.5mt	55	125	CA35d	DL77a
7	H11-5048-5	B	1	2	30	80m	25 t	10	1.0m	CMS	3.0	.80	15	15	370n	1.5mt	0	75	CA35d	DL77a
8	H19-5048-2	B	1	2	30	80m	25 t	10	1.0m	CMS	3.0	.80	15	15	1.0u	1.5mt	55	125	CA35c	TO86
9	H19-5048-5	B	1	2	30	80m	25 t	10	1.0m	CMS	3.0	.80	15	15	370n	1.5mt	0	75	CA35c	TO86
10	H11-5041-2	B	1	2	30	80m	50 t	10	1.0m	CMS	3.0	.80	15	15	1.0u	1.5mt	55	125	CA35d	DL77a
11	H11-5041-5	B	1	2	30	80m	50 t	10	1.0m	CMS	3.0	.80	15	15	370n	1.5mt	0	75	CA35d	DL77a
12	H19-5041-2	B	1	2	30	80m	50 t	10	1.0m	CMS	3.0	.80	15	15	1.0u	1.5mt	55	125	CA35c	TO86
13	H19-5041-5	B	1	2	30	80m	50 t	10	1.0m	CMS	3.0	.80	15	15	370n	1.5mt	0	75	CA35c	TO86
14	LF11201D	B	1	4	20	20m	200	0.0	1.0m	MOS	2.0	.80	15	15	500n	900m	55	125	CA135c	DL125
15	LF11332D	B	1	4	20	20m	200	0.0	1.0m	MOS	2.0	.80	15	15	500n	900m	55	125	CA135a	DL125
16	LF12201D	B	1	4	20	20m	250	0.0	1.0m	MOS	2.0	.80	15	15	500n	900m	25	85	CA135c	DL125
17	LF12201N	B	1	4	20	20m	250	0.0	1.0m	MOS	2.0	.80	15	15	500n	500m	25	85	CA135c	DL126
18	LF12332D	B	1	4	20	20m	250	0.0	1.0m	MOS	2.0	.80	15	15	500n	900m	25	85	CA135a	DL125
19	LF12332N	B	1	4	20	20m	250	0.0	1.0m	MOS	2.0	.80	15	15	500n	500m	25	85	CA135a	DL126
20	LF13201D	B	1	4	20	20m	250	0.0	1.0m	MOS	2.0	.80	15	15	500n	900m	0	70	CA135c	DL125
21	LF13201N	B	1	4	20	20m	250	0.0	1.0m	MOS	2.0	.80	15	15	500n	500m	0	70	CA135c	DL126
22	LF13332D	B	1	4	20	20m	250	0.0	1.0m	MOS	2.0	.80	15	15	500n	900m	0	70	CA135a	DL125
23	LF13332N	B	1	4	20	20m	250	0.0	1.0m	MOS	2.0	.80	15	15	500n	500m	0	70	CA135a	DL126
24	AH0015CD	B	1	4	20		600	-10	1.0m	MOS	2.0	.80	22	10	150n	35m	25	85	CA117	DL125
25	AH0015CN	B	1	4	20		600	-10	1.0m	MOS	2.0	.80	22	10	150n	35m	25	85	CA117	DL56
26	AH0015D	B	1	4	20		600	-10	1.0m	MOS	2.0	.80	22	10	150n	35m	55	125	CA117	DL125
27	AD7511JD	B	1	4	25	50m	100	10	1.0m	CMS	3.0	.80	15	15	1.2u	30u	0	75	CA79	DL85
28	AD7511JN	B	1	4	25	50m	100	10	1.0m	CMS	3.0	.80	15	15	1.2u	30u	0	75	CA79	DL4b
29	AD7511KD	B	1	4	25	50m	100	10	1.0m	CMS	2.4	.80	15	15	1.2u	30u	0	75	CA79	DL85
30	AD7511KN	B	1	4	25	50m	100	10	1.0m	CMS	2.4	.80	15	15	1.2u	30u	0	75	CA79	DL4b
31	AD7511SD	B	1	4	25	50m	100	10	1.0m	CMS	3.0	.80	15	15	1.2u	30u	55	125	CA79	DL85
32	AD7511TD	B	1	4	25	50m	100	10	1.0m	CMS	2.4	.80	15	15	1.2u	30u	55	125	CA79	DL85
33	G128AF	B	1	4	30		45	10		NMS			0.0	10		375m	55	125	CA109	FP5d
34	G128AP	B	1	4	30		45	10		NMS			0.0	10		825m	55	125	CA109	DL6a
35	G128AF	B	1	4	30		45	10		NMS			0.0	10		375m	55	125	CA110	FP5d
36	G128BF	B	1	4	30		50	10		NMS			0.0	10		375m	20	85	CA109	FP5d
37	G128BP	B	1	4	30		50	10		NMS			0.0	10		825m	20	85	CA109	DL6a
38	G127AF	B	1	4	30		90	10		NMS			0.0	10		375m	55	125	CA109	FP5d
39	G131AF	B	1	4	30		90	10		NMS			0.0	10		375m	55	125	CA110	FP5d
40	G126AF	B	1	4	30		250	10		NMS			0.0	10		375m	55	125	CA109	FP5d
41	G130AF	B	1	4	30		250	10		NMS			0.0	10		375m	55	125	CA110	FP5d
42	G125AF	B	1	4	30		500	10		NMS			0.0	10		375m	55	125	CA109	FP5d
43	G129AF	B	1	4	30		500	10		NMS			0.0	10		375m	55	125	CA110	FP5d
44	IH5044BCDE	B	2	1	15	20m	80	7.5	1.0m	CMS	3.0	.80	15	15	500n	450m	0	70	CA351	DL66
45	IH5044BCPE	B	2	1	15	20m	80	7.5	1.0m	CMS	3.0	.80	15	15	500n	450m	0	70	CA351	DL61a
46	IH5044BCFTW	B	2	1	15	20m	80	7.5	1.0m	CMS	3.0	.80	15	15	500n	450m	0	70	CA35m	TO100
47	IH5044BMDE	B	2	1	15	20m	80	7.5	1.0m	CMS	3.0	.80	15	15	500n	450m	55	125	CA351	DL66
48	IH5044BMFD	B	2	1	15	20m	80	7.5	1.0m	CMS	3.0	.80	15	15	500n	450m	55	125	CA35k	FP12
49	IH5044BMTW	B	2	1	15	20m	80	7.5	1.0m	CMS	3.0	.80	15	15	500n	450m	55	125	CA35m	TO100
50	IH5044CDE	B	2	1	20	20m	80	10	1.0m	CMS	2.4	.80	15	15	500n	450m	0	70	CA351	DL66
51	IH5044CPE	B	2	1	20	20m	80	10	1.0m	CMS	2.4	.80	15	15	500n	450m	0	70	CA351	DL61a
52	IH5044CTW	B	2	1	20	20m	80	10	1.0m	CMS	2.4	.80	15	15	500n	450m	0	70	CA35m	TO100
53	IH5044MDE	B	2	1	22	20m	75	10	1.0m	CMS	2.4	.80	15	15	500n	450m	55	125	CA351	DL66
54	IH5044MFD	B	2	1	22	20m	75	10	1.0m	CMS	2.4	.80	15	15	500n	450m	55	125	CA35k	FP12
55	IH5044MTW	B	2	1	22	20m	75	10	1.0m	CMS	2.4	.80	15	15	500n	450m	55	125	CA35m	TO100
56	H11-5044-2	B	2	1	30	80m	50 t	10	1.0m	CMS	3.0	.80	15	15	1.0u	1.5mt	55	125	CA351	DL77a
57	H11-5044-5	B	2	1	30	80m	50 t	10	1.0m	CMS	3.0	.80	15	15	370n	1.5mt	0	75	CA351	DL77a
58	H19-5044-2	B	2	1	30	80m	50 t	10	1.0m	CMS	3.0	.80	15	15	1.0u	1.5mt	55	125	CA35k	TO86
59	H19-5044-5	B	2	1	30	80m	50 t	10	1.0m	CMS	3.0	.80	15	15	370n	1.5mt	0	75	CA35k	TO86
60	IH5045BCDE	B	2	2	15	20m	80	7.5	1.0m	CMS	3.0	.80	15	15	500n	450m	0	70	CA35o	DL66
61	IH5045BCPE	B	2	2	15	20m	80	7.5	1.0m	CMS	3.0	.80	15	15	500n	450m	0	70	CA35o	DL61a
62	IH5045BMDE	B	2	2	15	20m	80	7.5	1.0m	CMS	3.0	.80	15	15	500n	450m	55	125	CA35o	DL66
63	IH5045BMFD	B	2	2	15	20m	80	7.5	1.0m	CMS	3.0	.80	15	15	500n	450m	55	125	CA35n	FP12
64	IH5049MDE	B	2	2	20	20m	35	10	1.0m	CMS	2.4	.80	15	15	250n	450m	55	125	CA35o	DL66
65	IH5049MFD	B	2	2	20	20m	35	10	1.0m	CMS	2.4	.80	15	15	250n	450m	55	125	CA35n	DL66
66	IH5049CDE	B	2	2	20	20m	45	10	1.0m	CMS	2.4	.80	15	15	300n	450m	0	70	CA35o	DL66
67	IH5045CDE	B	2	2	20	20m	80	10	1.0m	CMS	2.4	.80	15	15	500n	450m	0	70	CA35o	DL66
68	IH5045CPE	B	2	2	20	20m	80	10	1.0m	CMS	2.4	.80	15	15	500n	450m	0	70	CA35o	DL61a
69	TL185MJ	B	2	2	20		125	-10	1.0m	MOS	2.0	.80	15	15	175n	120m	55	125	CA25	DL25
70	TL185CJ	B	2	2	20		150	-10	1.0m	MOS	2.0	.80	15	15	175n	120m	0	70	CA25	DL25
71	TL185CN	B	2	2	20		150	-10	1.0m	MOS	2.0	.80	15	15	175n	120m	0	70	CA25	DL26
72	TL185IJ	B	2	2	20		150	-10	1.0m	MOS	2.0	.80	15	15	175n	120m	25	85	CA25	DL25
73	TL185IN	B	2	2	20		150	-10	1.0m	MOS	2.0	.80	15	15	175n	120m	25	85	CA25	DL26
74	AH0019CD	B	2	2	20		600	-10	1.0m	MOS	2.0	.80	22	10	150n	17m	25	85	CA118	DL124
75	AH0019CN	B	2	2	20	</														

15. ANALOG GATE SWITCHES: BILATERAL, MULTIPLE

IN ORDER OF: (1) SWITCH FORM (2) SWTS PER CKT (3) CKTS PER DEV (4) PP SW V (5) Rds & (6) TYPE No.

LINE No.	TYPE NUMBER	SW-FORM		MAXIMUM SW. CURR.		MAXIMUM DRAIN/SOURCE ON RESISTANCE		T E C H N I C A L	CONTROL LOGIC LEVEL		RATED SUPPLY SPAN		MAX. ON TIME (s)	MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS			
		A-SSNO	B-SSNC	SW. PER DEV	SW. P-P (V)	SW. P-P (A)	Rds (Ω)		@ V _D (V)	@ I _s (A)	HIGH (min) (V)	LOW (max) (V)			NEG. (V)	POS. (V)	(-) (°C)	(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No.
		C-SPDT	SWTS PER CKT	SW. PER DEV	P-P (V)	P-P (A)	(Ω)		(V)	(A)	(min) (V)	(max) (V)			(V)	(V)	(°C)	(°C)	No.	Δ=Mo
1	DG304AL	B	1	2	32	30m	50	10	10m	CMS	11	3.5	15	15	250n	750m	55	125	CA100	FP38
2	DG304AP	B	1	2	32	30m	50	10	10m	CMS	11	3.5	15	15	250n	825m	55	125	CA100	DL6a
3	DG304BA	B	1	2	32	30m	50	10	10m	CMS	11	3.5	15	15	250n	450m	20	85	CA99	CN4a
4	DG304BL	B	1	2	32	30m	50	10	10m	CMS	11	3.5	15	15	250n	750m	20	85	CA100	FP38
5	DG304BP	B	1	2	32	30m	50	10	10m	CMS	11	3.5	15	15	250n	825m	20	85	CA100	DL6a
6	DG304CJ	B	1	2	32	30m	50	10	10m	CMS	11	3.5	15	15	110n	470m	0	70	CA100	DL54a
7	DG302AL	B	2	2	32	30m	50	10	10m	CMS	4.0	.80	15	15	300n	750m	55	125	CA103	FP38
8	DG302AP	B	2	2	32	30m	50	10	10m	CMS	4.0	.80	15	15	300n	825m	55	125	CA103	DL6a
9	DG302BL	B	2	2	32	30m	50	10	10m	CMS	4.0	.80	15	15	300n	750m	20	85	CA103	FP38
10	DG302BP	B	2	2	32	30m	50	10	10m	CMS	4.0	.80	15	15	300n	825m	20	85	CA103	DL6a
11	DG302CJ	B	2	2	32	30m	50	10	10m	CMS	4.0	.80	15	15	150n	470m	0	70	CA103	DL54a
12	DG306AL	B	2	2	32	30m	50	10	10m	CMS	11	3.5	15	15	250n	750m	55	125	CA103	FP38
13	DG306AP	B	2	2	32	30m	50	10	10m	CMS	11	3.5	15	15	250n	825m	55	125	CA103	DL6a
14	DG306BL	B	2	2	32	30m	50	10	10m	CMS	11	3.5	15	15	250n	750m	20	85	CA103	FP38
15	DG306BP	B	2	2	32	30m	50	10	10m	CMS	11	3.5	15	15	250n	825m	20	85	CA103	DL6a
16	DG306CJ	B	2	2	32	30m	50	10	10m	CMS	11	3.5	15	15	110n	470m	0	70	CA103	DL54a
17	VMUX	B	6	1	10		60		400u	MOS			15	15	50n	2.6	55	85	CA156	FP41
18	IH5021CPA	BC	2	1	20		100		2.0m	MOS	0.0	15	10	10	500n	500m	0	70	CA42	DL67
19	IH5022CPA	BC	2	1	20		150		2.0m	MOS	0.0	15	10	10	500n	500m	0	70	CA42	DL67
20	IH5017CPA	BC	3	1	20		100		2.0m	MOS	0.0	15	10	10	500n	500m	0	70	CA40	DL67
21	IH5018CPA	BC	3	1	20		150		2.0m	MOS	0.0	15	10	10	500n	500m	0	70	CA40	DL67
22	IH5013CPD	BC	4	1	20		100		2.0m	MOS	0.0	15	10	10	500n	500m	0	70	CA38	DL63
23	IH5014CPD	BC	4	1	20		150		2.0m	MOS	0.0	15	10	10	500n	500m	0	70	CA38	DL63
24	IH5009CPD	BC	5	1	20		100		2.0m	MOS	0.0	15	10	10	500n	500m	0	70	CA36	DL63
25	IH5010CPD	BC	5	1	20		150		2.0m	MOS	0.0	15	10	10	500n	500m	0	70	CA36	DL63
26	CDA18	C	1	1	15		50			HYB	3.5	.50			30n	30m	55	125	CA17	TO100
27	CDA23	C	1	1	15		10			HYB	3.5	.50	15	5.0	50n	50m	55	125	CA18	TO100
28	CDA18A	C	1	1	15		50			HYB	3.5	.50			30n	30m	55	125	CA17a	TO87
29	IH5023CPA	C	1	1	20		100		2.0m	MOS	0.0	15	10	10	500n	500m	0	70	CA43	DL67
30	IH5024CPA	C	1	1	20		150		2.0m	MOS	0.0	15	10	10	500n	500m	0	70	CA43	DL67
31	SH3002HC	C	1	1	20	10m	200		100u	TTL	1.9	1.1	22	11	400n	231m	0	75	CA50	TO100
32	SH3002HM	C	1	1	20	10m	200		100u	TTL	1.9	1.1	22	11	350n	231m	55	125	CA50	TO100
33	TL601JG	C	1	1	30	10m	100	10	1.0m	PMS	2.0	.80	20	10	150n	150m	25	85	CA28	DL27
34	TL601IP	C	1	1	30	10m	100	10	1.0m	PMS	2.0	.80	20	10	150n	150m	25	85	CA28	DL28
35	TL607JG	C	1	1	30	10m	100	10	1.0m	PMS	2.0	.80	20	10	150n	200m	25	85	CA22	DL27
36	TL607IP	C	1	1	30	10m	100	10	1.0m	PMS	2.0	.80	20	10	150n	200m	25	85	CA22	DL28
37	TL607MJG	C	1	1	30	10m	100	10	1.0m	PMS	2.0	.80	20	10	150n	200m	55	125	CA22	DL27
38	TL601CJG	C	1	1	30	10m	200	10	1.0m	PMS	2.0	.80	20	10	150n	150m	0	70	CA28	DL27
39	TL601CP	C	1	1	30	10m	200	10	1.0m	PMS	2.0	.80	20	10	150n	150m	0	70	CA28	DL28
40	TL607CJG	C	1	1	30	10m	200	10	1.0m	PMS	2.0	.80	20	10	150n	200m	0	70	CA22	DL27
41	TL607CP	C	1	1	30	10m	200	10	1.0m	PMS	2.0	.80	20	10	150n	200m	0	70	CA22	DL28
42	TL601MJG	C	1	1	31	10m	100	10	1.0m	PMS	2.0	.80	20	10	150n	150m	55	125	CA28	DL27
43	CDA29A	C	1	2	20		100			HYB	2.0	1.0	15	15	3.0u	510m	55	125	CA20	TO101
44	AD7512JD	C	1	2	25	50m	100	10	1.0m	CMS	3.0	.80	15	15	1.2u	30u	0	75	CA80	DL6b
45	AD7512JN	C	1	2	25	50m	100	10	1.0m	CMS	3.0	.80	15	15	1.2u	30u	0	75	CA80	DL3a
46	AD7512KD	C	1	2	25	50m	100	10	1.0m	CMS	2.4	.80	15	15	1.2u	30u	0	75	CA80	DL6a
47	AD7512KN	C	1	2	25	50m	100	10	1.0m	CMS	2.4	.80	15	15	1.2u	30u	0	75	CA80	DL3a
48	AD7512SD	C	1	2	25	50m	100	10	1.0m	CMS	3.0	.80	15	15	1.2u	30u	55	125	CA80	DL6b
49	AD7512TD	C	1	2	25	50m	100	10	1.0m	CMS	2.4	.80	15	15	1.2u	30u	55	125	CA80	DL6b
50	IH5011CPE	C	1	4	20		100		2.0m	MOS	0.0	15	10	10	500n	500m	0	70	CA37	DL64
51	IH5012CPE	C	1	4	20		150		2.0m	MOS	0.0	15	10	10	500n	500m	0	70	CA37	DL64
52	AH0014CD	C	2	1	20		600	-10	1.0m	MOS	2.0	.80	22	10	425n	16m	25	85	CA116	DL124
53	AH0014CN	C	2	1	20		600	-10	1.0m	MOS	2.0	.80	22	10	425n	16m	25	85	CA116	DL54
54	AH0014D	C	2	1	20		600	-10	1.0m	MOS	2.0	.80	22	10	425n	16m	55	125	CA116	DL124
55	H11-5050-2	C	2	1	30	80m	25	10	1.0m	CMS	3.0	.80	15	15	1.0u	1.5m	55	125	CA35g	DL77a
56	H11-5050-5	C	2	1	30	80m	25	10	1.0m	CMS	3.0	.80	15	15	370n	1.5m	0	75	CA35g	DL77a
57	H19-5050-2	C	2	1	30	80m	25	10	1.0m	CMS	3.0	.80	15	15	1.0u	1.5m	55	125	CA35f	TO86
58	H19-5050-5	C	2	1	30	80m	25	10	1.0m	CMS	3.0	.80	15	15	370n	1.5m	0	75	CA35f	TO86
59	H11-5042-2	C	2	1	30	80m	50	10	1.0m	CMS	3.0	.80	15	15	1.0u	1.5m	55	125	CA35g	DL77a
60	H11-5042-5	C	2	1	30	80m	50	10	1.0m	CMS	3.0	.80	15	15	370n	1.5m	0	75	CA35g	DL77a
61	H19-5042-2	C	2	1	30	80m	50	10	1.0m	CMS	3.0	.80	15	15	1.0u	1.5m	55	125	CA35f	TO86
62	H19-5042-5	C	2	1	30	80m	50	10	1.0m	CMS	3.0	.80	15	15	370n	1.5m	0	75	CA35f	TO86
63	IH5019CPA	C	2	2	20		100		2.0m	MOS	0.0	15	10	10	500n	500m	0	70	CA41	DL67
64	IH5020CPA	C	2	2	20		150		2.0m	MOS	0.0	15	10	10	500n	500m	0	70	CA41	DL67
65	H19-5043-2	C	2	2	30	80m	50	10	1.0m	CMS	3.0	.80	15	15	1.0u	1.5m	55	125	CA35i	TO86
66	H19-5043-5	C	2	2	30	80m	50	10	1.0m	CMS	3.0	.80	15	15	370n	1.5m	0	75	CA35i	TO86
67	IH5015CPE	C	3	3	20		100		2.0m	MOS	0.0	15	10	10	500n	500m	0	70	CA39	DL64
68	IH5016CPE	C	3	3	20		150		2.0m	MOS	0.0	15	10	10	500n	500m	0	70	CA39	DL64
69	AD7519JN	C	4	1	12	5.0m	100	0.0	1.0m	CMS	7.0	.40	0.0	8.0	20n	8.0u	0	75	CA82	DL3a
70	SI3002AA	C	1	1	20	30m	400	10	1.0m	PMS	2.0	.80	20	10	1.0u	450m	55	125	CA70	CN4a
71	SI3002BP	C	1	1	20	30m	400	10	1.0m	PMS	2.0	.80	20	10	1.0u	825m	20	85	CA70a	DL6a
72	DG170AP	C	1	3	20	12m	800	10	100u	PMS	2.0	.80	20	10	300n	825m	55	125	CA65	DL88
73	DG170BP	C	1	3	20	12m	850	10	100u	PMS	2.0	.80	20	10	300n	825m	20	85	CA65	DL88
74	DG170CJ	C	1	3	20	12m	850	10	100u	P										

16. ANALOG MULTIPLEXERS

IN ORDER OF: (1) CKTS. PER DEVICE
(2) INPUT CHAN./CKT (3) MAX.SW.V. & (4) TYPE No.

LINE No.	TYPE NUMBER	1 CKTS. PER DEV.	2 No. INPUT CHAN PER CKT.	3 MAXIMUM SW. VOLT. P-P (V)	4 MAXIMUM SW. CURR. P-P (A)	MAXIMUM DRAIN/SOURCE ON RESISTANCE			T E C H N	CONTROL LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. PROP. DELAY (tpd)	MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS	
						Rds (Ω)	@ VD (V)	@ Is (A)		HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)			(-) (°C)	(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO
1	H11-1828A-2	1	4	30		400	10	1.0m	CMS	4.0	.40	15	15	350ms†	5.0m†	55	125	CB22	DL77
2	H11-1828A-5	1	4	30		400	10	1.0m	CMS	4.0	.40	15	15	350ms†	5.0m†	0	75	CB22	DL77
3	H11-509A-2	1	4	30		1.5k	10	100u	CMS	4.0	.80	15	15	1.0u‡	7.5m†	55	125	CB20	DL13
4	H11-509A-5	1	4	30		1.8k	10	100u	CMS	4.0	.80	15	15	500ns†	7.5m†	0	75	CB20	DL13
5	CAM601A	1	6	20		120								3.0u‡	162m	55	125	CB4	CN3
6	#MB84051	1	8						CMS	4.6	2.6	0.0	10	200m†	200m†	55	125	CB30	DL17r
7	#MB84051M	1	8						CMS			0.0	10	200m†	200m†	40	85	CB30	DL17q
8	SI3705143P	1	8	5.0	20m‡	150	5.0	1.0m	PMS	3.5	.60	20	5.0	1.2u‡	900m‡	55	85	CB37	DL88
9	SI3705193P	1	8	5.0	20m‡	150	5.0	1.0m	PMS	3.5	.60	20	5.0	1.2u‡	900m‡	0	70	CB37	DL88
10	AM3705CD	1	8	10	60m‡	250	5.0	100u	MOS	3.0	1.0	15	5.0	300ns†	175m	25	85	CB44	DL125
11	AM3705CF	1	8	10	60m‡	250	5.0	100u	MOS	3.0	1.0	15	5.0	300ns†	175m	25	85	CB44	FP7a
12	AM3705CN	1	8	10	60m‡	250	5.0	100u	MOS	3.0	1.0	15	5.0	300ns†	175m	55	125	CB44	DL56
13	AM3705D	1	8	10	60m‡	250	5.0	100u	MOS	3.0	1.0	15	5.0	300ns†	175m	55	125	CB44	DL125
14	AM3705F	1	8	10	60m‡	250	5.0	100u	MOS	3.0	1.0	15	5.0	300ns†	175m	55	125	CB44	FP7a
15	DG501AP	1	8	10	20m‡	250	-5.0	1.0m	PMS	3.5	.60	20	5.0	1.2u‡	900m‡	55	125	CB37	DL88
16	DG501BP	1	8	10	20m‡	250	-5.0	1.0m	PMS	3.5	.60	20	5.0	1.2u‡	900m‡	20	85	CB37	DL88
17	DG501CJ	1	8	10	20m‡	250	-5.0	1.0m	PMS	3.5	.60	20	5.0	1.2u‡	470m‡	0	70	CB37	DL77b
18	SFF160K	1	8	10		300	-15	100u	PMS	3.0	2.8	24	7.0	175m	0	70	CB19	DL47a	
19	SFF160KM	1	8	10		300	-15	100u	PMS	3.0	2.8	24	7.0	175m	55	125	CB19	DL47a	
20	SFF160KT	1	8	10		300	-15	100u	PMS	3.0	2.8	24	7.0	175m	25	85	CB19	DL47a	
21	SI3705142P	1	8	10	20m‡	400	-5.0	1.0m	PMS	3.5	.60	20	5.0	1.2u‡	900m‡	55	85	CB37	DL88
22	SI3705192P	1	8	10	20m‡	400	-5.0	1.0m	PMS	3.5	.60	20	5.0	1.2u‡	900m‡	0	70	CB37	DL88
23	#HEF4051P	1	8	15		65	10		CMS	7.0	3.0	0.0	10	7.0n†	14m†	40	85	CB49	DL4g
24	CD4051BD	1	8	15	25m	280	15		CMS	11	4.0	0.0	15	11n†	500m‡	55	125	CB24	Δ001AE
25	CD4051BE	1	8	15	25m	280	15		CMS	11	4.0	0.0	15	11n†	500m‡	40	85	CB24	Δ001AC
26	CD4051BF	1	8	15	25m	280	15		CMS	11	4.0	0.0	15	11n†	500m‡	55	125	CB24	Δ001AC
27	CD4051BH	1	8	15	25m	280	15		CMS	11	4.0	0.0	15	11n†		55	125	CB24	CH8w
28	CD4051BK	1	8	15	25m	280	15		CMS	11	4.0	0.0	15	11n†	500m‡	55	125	CB24	Δ004AG
29	MC14051BAL	1	8	15		280	15		CMS	11	4.0	0.0	15	18n	300u‡	55	125	CB11	DL17a
30	MC14051BCL	1	8	15		280	15		CMS	11	4.0	0.0	15	30n	1.2m†	40	85	CB11	DL17a
31	MC14051BCP	1	8	15		280	15		CMS	11	4.0	0.0	15	30n	1.2m†	40	85	CB11	DL30
32	MS504#1	1	8	16	15m‡	100	15		CMS	12.8	3.2	0.0	16	15u†	55	125	CB29	DL7	
33	MS504#2	1	8	16	15m‡	100	15		CMS	12.8	3.2	0.0	16	15u†	55	125	CB29	FP7	
34	MS504#3	1	8	16	15m‡	100	15		CMS	12.8	3.2	0.0	16	15u†	55	125	CB29	DL7	
35	MS504#4	1	8	16	15m‡	100	15		CMS	12.8	3.2	0.0	16	15u†	55	125	CB29	FP7	
36	MMUX-1	1	8	20	10m							15	15			55	85	CA157	MD164
37	MMUX-2	1	8	20	10m							15	15			25	70	CA157	MD164
38	MMUX-3	1	8	20	10m							15	15			0	50	CA157	MD164
39	DG503AP	1	8	20	20m‡	150	10	1.0m	PMS	8.5	.60	20	10	1.2u‡	900m‡	55	125	CB37	DL88
40	DG503BP	1	8	20	20m‡	150	10	1.0m	PMS	8.5	.60	20	10	1.2u‡	900m‡	20	85	CB37	DL88
41	MUX201	1	8	20		500			MOS	2.0	.80	15	15	1.3u†	95m†	0	70	CB43	
42	MUX201-MIL	1	8	20		500			MOS	2.0	.80	15	15	1.3u†	95m†	55	125	CB43	
43	MPM8S	1	8	20	10m	1.0k			MOS	2.0	.80	15	15	200n‡	815m	0	70	CB1	MD5d
44	MMD-8	1	8	20		2.0k†			MOS	4.0	.80	15	15	300n†	600m	0	70	CB8	MD48
45	AD7501JD	1	8	25	35m‡	300	10	1.0m	CMS	3.0	.80	15	15	800ns	30u†	0	75	CB33	DL85
46	AD7501JN	1	8	25	35m‡	300	10	1.0m	CMS	3.0	.80	15	15	800ns	30u†	0	75	CB33	DL4b
47	AD7501KD	1	8	25	35m‡	300	10	1.0m	CMS	2.4	.80	15	15	800ns	30u†	0	75	CB33	DL85
48	AD7501KN	1	8	25	35m‡	300	10	1.0m	CMS	2.4	.80	15	15	800ns	30u†	0	75	CB33	DL4b
49	AD7501SD	1	8	25	35m‡	300	10	1.0m	CMS	2.4	.80	15	15	800ns	30u†	55	125	CB33	DL85
50	AD7503JD	1	8	25	35m‡	300	10	1.0m	CMS	3.0	.80	15	15	800ns	30u†	0	75	CB33	DL85
51	AD7503JN	1	8	25	35m‡	300	10	1.0m	CMS	3.0	.80	15	15	800ns	30u†	0	75	CB33	DL4b
52	AD7503KD	1	8	25	35m‡	300	10	1.0m	CMS	2.4	.80	15	15	800ns	30u†	0	75	CB33	DL4b
53	AD7503KN	1	8	25	35m‡	300	10	1.0m	CMS	2.4	.80	15	15	800ns	30u†	0	75	CB33	DL4b
54	AD7503SD	1	8	25	35m‡	300	10	1.0m	CMS	2.4	.80	15	15	800ns	30u†	55	125	CB33	DL85
55	H11-507-2	1	8	30		300	10	1.0m	CMS	2.4	.80	15	15	1.0u‡	60m	55	125	CB17	DL10
56	DG508AL	1	8	30	20m‡	400	10	200u	CMS	2.4	.80	15	15	1.0u‡	750m‡	55	125	CB40	FP17
57	DG508AP	1	8	30	20m‡	400	10	200u	CMS	2.4	.80	15	15	1.0u‡	900m‡	55	125	CB40	DL17v
58	H11-507-5	1	8	30		400	10	1.0m	CMS	2.4	.80	15	15	300ns	105m	0	75	CB17	DL10
59	H11-1818A-2	1	8	30		400	10	1.0m	CMS	4.0	.40	15	15	350ns†	5.0m†	55	125	CB21	DL77
60	H11-1818A-5	1	8	30		400	10	1.0m	CMS	4.0	.40	15	15	350ns†	5.0m†	0	75	CB21	DL77
61	DG508BL	1	8	30	20m‡	450	10	200u	CMS	2.4	.80	15	15	600ns†	750m‡	20	85	CB40	FP17
62	DG508BP	1	8	30	20m‡	450	10	200u	CMS	2.4	.80	15	15	600ns†	900m‡	20	85	CB40	DL17v
63	DG508CJ	1	8	30	20m‡	450	10	200u	CMS	2.4	.80	15	15	600ns†	470m‡	0	70	CB40	DL77b
64	H11-507A-2	1	8	30		1.5k	10	100u	CMS	4.0	.80	15	15	1.0u‡	7.5m†	55	125	CB17a	DL10
65	H11-508A-2	1	8	30		1.5k	10	100u	CMS	4.0	.80	15	15	1.0u‡	7.5m†	55	125	CB18	DL13
66	MUX202-M/B	1	8	30		1.5k	10	100u	CMS	4.0	.80	15	15	4.0u†	37m†	55	125	CB40	DL13a
67	MUX202-M/C	1	8	30		1.5k	10	100u	CMS	4.0	.80	15	15	4.0u†	37m†	55	125	CB40	DL13a
68	MX-808	1	8	30		1.5k	10	100u	CMS	4.0	.80	15	15	300n†	725m	0	70	CB9	DL13
69	H11-507A-5	1	8	30		1.8k	10	100u	CMS	4.0	.80	15	15	500ns†	7.5m†	0	75	CB17a	DL10
70	H11-508A-5	1	8	30		1.8k	10	100u	CMS	4.0	.80	15	15	500ns†	7.5m†	0	75	CB18	DL13
71	MUX203	1	8	30		1.8k	10	100u	CMS	4.0	.80	15	15	4.0u†	37m†	0	70	CB40	DL13a
72	CM4108AD	1	16	5.0	100u†	1.2k	-5.0	17u	CMS	-1.5	-4.2	15	0.0	200n	600m‡	55	125	CB42	DL7
73	CM4108AE	1	16	5.0	100u†	1.2k	-5.0	17u	CMS	-1.5	-4.2	15	0.0	200n	600m‡	40	85	CB42	DL7
74	CM4108AF	1	16	5.0	100u†	1.2k	-5.0	17u	CMS	-1.5	-4.2	15	0.0	200n	600m‡	55	125	CB42	DL7
75	#HEF4067P	1	16	15		120	10		CMS	7.0	3.0	0.0	10	7.0n†	14m†	40	85	CB52	DL35c
76	CD4067BD	1	16	15	25m	280	15		CMS	11	4.0	0.0	15	11n†	500m‡	55	125	CB27	Δ015AG
77	CD4067BE	1	16	15	25m	280	15		CMS	11	4.0	0.0	15	11n†	500m‡				

16. ANALOG MULTIPLEXERS

IN ORDER OF: (1)CKTS. PER DEVICE
(2)INPUT CHAN./CKT (3)MAX.SV.V.&(4)TYPE No.

LINE No.	TYPE NUMBER	1 CKTS. PER DEV-ICE	2 No. INPUT CHAN PER CKT.	3 MAXIMUM SW. P.P.			4 MAXIMUM DRAIN/SOURCE ON RESISTANCE			T E C H N I C A L	CONTROL LOGIC LEVEL		RATED SUPPLY SPAN		MAX. PROP. DELAY tpd (s)	MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS		
				SW. VOLT. (V)	SW. CURR. P.P. (A)	SW. P.P. (A)	Rds @ VD (Ω)	@ VD (V)	@ Is (A)		HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)			(-)	(+)	LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO	
1	MC14529BAL	2	4	15			270	15			CMS	14.9	.05	0.0	15	600n	30u+	55	125	CB15	DL17a
2	MC14529BCL	2	4	15			270	15			CMS	14.9	.05	0.0	15	600n	150u+	40	85	CB15	DL17a
3	MC14529BCP	2	4	15			270	15			CMS	14.9	.05	0.0	15	600n	150u+	40	85	CB15	DL30
4	CD4052BD	2	4	15	25m		280	15			CMS	11	4.0	0.0	15	11n	500m	55	125	CB25	Δ001AE
5	CD4052BE	2	4	15	25m		280	15			CMS	11	4.0	0.0	15	11n	500m	40	85	CB25	Δ001AC
6	CD4052BF	2	4	15	25m		280	15			CMS	11	4.0	0.0	15	11n	500m	55	125	CB25	Δ001AC
7	CD4052BH	2	4	15	25m		280	15			CMS	11	4.0	0.0	15	11n		55	125	CB25	CH8w
8	CD4052BK	2	4	15	25m		280	15			CMS	11	4.0	0.0	15	11n	500m	55	125	CB25	Δ004AG
9	MC14052BAL	2	4	15			280	15			CMS	11	4.0	0.0	15	15n	300u+	55	125	CB12	DL17a
10	MC14052BCL	2	4	15			280	15			CMS	11	4.0	0.0	15	25n	1.2m+	40	85	CB12	DL17a
11	MC14052BCP	2	4	15			280	15			CMS	11	4.0	0.0	15	25n	1.2m+	40	85	CB12	DL30
12	192	2	4	20	10m		100				TTL	3.5	1.5	15	15	2.0u		0	70	CB16	MD67
13	AD7502JD	2	4	25	35m		300	10	1.0m		CMS	3.0	.80	15	15	800n	30u+	0	75	CB34	DL85
14	AD7502JN	2	4	25	35m		300	10	1.0m		CMS	3.0	.80	15	15	800n	30u+	0	75	CB34	DL4b
15	AD7502KD	2	4	25	35m		300	10	1.0m		CMS	3.0	.80	15	15	800n	30u+	0	75	CB34	DL85
16	AD7502KN	2	4	25	35m		300	10	1.0m		CMS	3.0	.80	15	15	800n	30u+	0	75	CB34	DL4b
17	AD7502SD	2	4	25	35m		300	10	1.0m		CMS	2.4	.80	15	15	800n	30u+	55	125	CB34	FP17
18	DG509AL	2	4	30	20m		400	10	200u		CMS	2.4	.80	15	15	1.0u	750m	55	125	CB41	DL17v
19	DG509AP	2	4	30	20m		400	10	200u		CMS	2.4	.80	15	15	1.0u	900m	55	125	CB41	FP17
20	DG509BP	2	4	30	20m		450	10	200u		CMS	2.4	.80	15	15	600n	900m	20	85	CB41	FP17
21	DG509BP	2	4	30	20m		450	10	200u		CMS	2.4	.80	15	15	600n	900m	20	85	CB41	DL17v
22	DG509CJ	2	4	30	20m		450	10	200u		CMS	2.4	.80	15	15	600n	470m	0	70	CB41	DL77b
23	MXD-409	2	4	30			4.5k				CMS	4.0	.80	15	15	300n	725m	0	70	CB9a	DL13
24	CD4097BD	2	8	15	25m		280	15			CMS	11	4.0	0.0	15	11n	500m	55	125	CB27	Δ015AG
25	CD4097BE	2	8	15	25m		280	15			CMS	11	4.0	0.0	15	11n	500m	40	85	CB27	Δ015AA
26	CD4097BH	2	8	15	25m		280	15			CMS	11	4.0	0.0	15	11n		55	125	CB27	CH8z
27	CD4097BK	2	8	15	25m		280	15			CMS	11	4.0	0.0	15	11n	500m	55	125	CB27	FP33
28	AD7507SD	2	8	25	20m		400	10	1.0m		CMS	3.0	.80	15	15	800n	30m	55	125	CB36	
29	AD7507TD	2	8	25	20m		400	10	1.0m		CMS	2.4	.80	15	15	1.5u	30m	55	125	CB36	
30	AD7507JD	2	8	25	20m		450	10	1.0m		CMS	3.0	.80	15	15	800n	30m	0	75	CB36	
31	AD7507JN	2	8	25	20m		450	10	1.0m		CMS	3.0	.80	15	15	800n	30m	0	75	CB36	
32	AD7507KD	2	8	25	20m		450	10	1.0m		CMS	2.4	.80	15	15	1.5u	30m	0	75	CB36	
33	AD7507KN	2	8	25	20m		450	10	1.0m		CMS	2.4	.80	15	15	1.5u	30m	0	75	CB36	
34	4551	2	8	30	10m						CMS	6.8	.80	15	15	500n	1.2	0	75	CB17a	DL10a
35	MVD-807	2	8	30			270				CMS	2.0	.80	15	15	300n		0	70		DL17
36	MVD-807M	2	8	30			270				CMS	2.0	.80	15	15	300n		55	125		DL17
37	DG507AR	2	8	30	20m		400	10	200u		CMS	2.4	.80	15	15	1.0u	1.2	55	125	CB39	DL12b
38	IH507OMDI	2	8	30	30m		400	10	10m		CMS	3.0	.80	15	15	1.5u	1.2	55	125	CB48	DL129
39	DG507BR	2	8	30	20m		450	10	200u		CMS	2.4	.80	15	15	600n	1.2	20	85	CB39	DL12b
40	DG507CJ	2	8	30	20m		450	10	200u		CMS	2.4	.80	15	15	600n	625m	0	70	CB39	DL36c
41	IH507OCDI	2	8	30	30m		450	10	10m		CMS	3.0	.80	15	15	1.5u	1.2	0	70	CB48	DL129
42	MXD-807	2	8	30			1.5k				CMS	4.0	.80	15	15	300n	1.2	0	70	CB9c	DL12
43	MPC8D	2	8	30	36m	1.8k					CMS	4.0	.80	15	15	500n	90m	0	75	CB3	DL10
44	#MB84053	2	2								CMS			0.0	10		200m	55	125	CB32	DL17r
45	#MB84053M	2	2								CMS			0.0	10		200m	40	85	CB32	DL17q
46	HEF4053P	2	2	15			120	10			CMS	7.0	3.0	0.0	10	7.0n	14m	40	85	CB51	DL4g
47	CD4053BD	2	2	15	25m		280	15			CMS	11	4.0	0.0	15	11n	500m	55	125	CB26	Δ001AE
48	CD4053BE	2	2	15	25m		280	15			CMS	11	4.0	0.0	15	11n	500m	40	85	CB26	Δ001AC
49	CD4053BF	2	2	15	25m		280	15			CMS	11	4.0	0.0	15	11n	500m	55	125	CB26	Δ001AC
50	CD4053BH	2	2	15	25m		280	15			CMS	11	4.0	0.0	15	11n		55	125	CB26	CH8w
51	CD4053BK	2	2	15	25m		280	15			CMS	11	4.0	0.0	15	11n	500m	55	125	CB26	Δ004AG
52	MC14053BAL	2	2	15			280	15			CMS	11	4.0	0.0	15	9.0n	300u+	55	125	CB13	DL17a
53	MC14053BCL	2	2	15			280	15			CMS	11	4.0	0.0	15	15n	1.2m+	40	85	CB13	DL17a
54	MC14053BCP	2	2	15			280	15			CMS	11	4.0	0.0	15	15n	1.2m+	40	85	CB13	DL30
55	CAM804A	4	1	20			20	10			CMS	2.4	.50	18	0.0	6.0u	90m	55	125	CB5	CN3
56	MPC4D	4	2	30	36	1.8k					CMS	4.0	.80	15	15	500n	90m	0	75	CB3a	DL13
57	MPC8S	8	1	30	36	1.8k					CMS	4.0	.80	15	15	500n	90m	0	75	CB2a	DL13

17. DIGITAL MULTIPLEXERS/SELECTORS

IN ORDER OF: (1)CKTS/DEVICE
(2)INPUT CHAN./CKT (3)MIN. I(SINK)&(4)TYPE No

LINE No.	4	TYPE NUMBER	1	2	3	T	MIN. OUTPUT SINK CURRENT		INPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. PROP. DELAY tpd (s)	MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS		
							CKTS. PER DEV	INPUT CHANN PER CKT.	No. OF ADDRESS LINES	E	C	H			N	I (A)	@ Vo (V)	HIGH (min) (V)	LOW (max) (V)
1▼	MB445	1	8	3	TTL			2.0	.80	0.0	5.0	120m	0	70	CC11a	DL17r			
2▼	MB445M	1	8	3	TTL			2.0	.80	0.0	5.0	120m	0	70	CC11a	DL17q			
3▼	MB10164	1	8	3	ECL			.96	-1.6%	5.2	0.0	310m	30	85	CC19	DL17r			
4▼	MB10164M	1	8	3	ECL			.96	-1.6%	5.2	0.0	310m	30	85	CC19	DL17q			
5▼	UPD4512C	1	8	3	CMS			300u	.40	3.5	1.5%	0.0	5.0	1.0u	200m	40	85	CC14	A001AC
6	TP4512AJ	1	8	3	CMS			300u	.40	3.5	1.5%	0.0	5.0	1.0u	200m	40	85	CC14	DL25
7	TF4512AN	1	8	3	CMS			400u	.40	3.5	1.5%	0.0	5.0	750n	200m	55	125	CC14	DL26
8	TF4512AJ	1	8	3	CMS			400u	.40	3.5	1.5%	0.0	5.0	750n	200m	55	125	CC14	DL25
9	TF4512AN	1	8	3	CMS			400u	.40	3.5	1.5%	0.0	5.0	750n	200m	55	125	CC14	DL26
10	MC14512CL	1	8	3	CMS			1.5m	1.5	11	4.0	0.0	15	750n	1.2m	40	85	CC14	DL17a
11	MC14512CP	1	8	3	CMS			1.5m	1.5	11	4.0	0.0	15	750n	1.2m	40	85	CC14	DL30
12	MC14512AL	1	8	3	CMS			3.4m	1.5	11	4.0	0.0	15	750n	300u	55	125	CC14	DL17a
13▼	25LS151JC	1	8	3	TTL			4.0m	.40	2.0	.70	0.0	5.0	41n	52m	0	70	CC11a	DL17w
14▼	25LS151JM	1	8	3	TTL			4.0m	.40	2.0	.70	0.0	5.0	41n	55m	55	125	CC11a	DL17w
15▼	25LS151WC	1	8	3	TTL			4.0m	.40	2.0	.80	0.0	5.0	41n	52m	0	70	CC11a	FP13b
16▼	25LS151WM	1	8	3	TTL			4.0m	.40	2.0	.70	0.0	5.0	41n	55m	55	125	CC11a	FP13b
17▼	25LS251JC	1	8	3	TTL			4.0m	.40	2.0	.80s	0.0	5.0	44n	52m	0	70	CC11c	DL17w
18▼	25LS251JM	1	8	3	TTL			4.0m	.40	2.0	.70s	0.0	5.0	44n	55m	55	125	CC11c	DL17w
19▼	25LS251WC	1	8	3	TTL			4.0m	.40	2.0	.80s	0.0	5.0	44n	52m	0	70	CC11c	FP13b
20▼	25LS251WM	1	8	3	TTL			4.0m	.40	2.0	.70s	0.0	5.0	44n	55m	55	125	CC11c	FP13b
21	54LS151DM	1	8	3	TTL			4.0m	.40	2.0	.70	0.0	5.0	41n	50m	55	125	CC11a	DL17f
22	54LS151FM	1	8	3	TTL			4.0m	.40	2.0	.70	0.0	5.0	41n	50m	55	125	CC11a	FP13
23	54LS151J	1	8	3	TTL			4.0m	.40	2.0	.70	0.0	5.0	43n	50m	55	125	CC11a	DL17j
24	54LS151W	1	8	3	TTL			4.0m	.40	2.0	.70	0.0	5.0	43n	50m	55	125	CC11a	FP13b
25	54LS152FM	1	8	3	TTL			4.0m	.40	2.0	.70	0.0	5.0	32n	45m	55	125	CC12a	TO86
26	54LS152J	1	8	3	TTL			4.0m	.40	2.0	.70	0.0	5.0	32n	45m	55	125	CC12a	DL16e
27	54LS152W	1	8	3	TTL			4.0m	.40	2.0	.70	0.0	5.0	32n	45m	55	125	CC12a	FP21
28	54LS251DM	1	8	3	TTL			4.0m	.40	2.0	.70s	0.0	5.0	45n	60m	55	125	CC11c	DL17f
29	54LS251FM	1	8	3	TTL			4.0m	.40	2.0	.70s	0.0	5.0	45n	60m	55	125	CC11c	FP13
30	54LS251J	1	8	3	TTL			4.0m	.40	2.0	.70s	0.0	5.0	45n	60m	55	125	CC11c	DL17j
31	54LS251W	1	8	3	TTL			4.0m	.40	2.0	.70s	0.0	5.0	45n	60m	55	125	CC11c	FP13b
32	74LS151DC	1	8	3	TTL			4.0m	.40	2.0	.80	0.0	5.0	41n	50m	0	75	CC11a	DL17f
33	74LS151FC	1	8	3	TTL			4.0m	.40	2.0	.80	0.0	5.0	41n	50m	0	75	CC11a	FP13
34	74LS151PC	1	8	3	TTL			4.0m	.40	2.0	.80	0.0	5.0	41n	50m	0	75	CC11a	DL52
35	74LS152FC	1	8	3	TTL			4.0m	.40	2.0	.80	0.0	5.0	32n	45m	0	75	CC12a	TO86
36	74LS251DC	1	8	3	TTL			4.0m	.40	2.0	.80s	0.0	5.0	45n	60m	0	75	CC11c	DL17f
37	74LS251FC	1	8	3	TTL			4.0m	.40	2.0	.80s	0.0	5.0	45n	60m	0	75	CC11c	FP13
38	74LS251PC	1	8	3	TTL			4.0m	.40	2.0	.80s	0.0	5.0	45n	60m	0	75	CC11c	DL52
39	N74LS151B	1	8	3	TTL			4.0m	.50	2.0	.80	0.0	5.0	50n	50m	0	70	CC11a	DL4a
40	N74LS151F	1	8	3	TTL			4.0m	.50	2.0	.80	0.0	5.0	50n	50m	0	70	CC11a	DL17h
41	N74LS251B	1	8	3	TTL			4.0m	.40	2.0	.80s	0.0	5.0	45n	60m	0	70	CC11c	DL4a
42	S54LS151F	1	8	3	TTL			4.0m	.40	2.0	.70	0.0	5.0	50n	50m	55	125	CC11a	DL17h
43	S54LS151W	1	8	3	TTL			4.0m	.40	2.0	.70	0.0	5.0	50n	50m	55	125	CC11a	FP15
44	S54LS251F	1	8	3	TTL			4.0m	.40	2.0	.70s	0.0	5.0	45n	60m	55	125	CC11c	DL17h
45	S54LS251W	1	8	3	TTL			4.0m	.40	2.0	.70s	0.0	5.0	45n	60m	55	125	CC11c	FP15
46#	SFC4151LSEM	1	8	3	TTL			4.0m	.40	2.0	.80	0.0	5.0	50n	50m	55	125	CC11a	DL47a
47#	SFC4251LSEM	1	8	3	TTL			4.0m	.40	2.0	.80	0.0	5.0	45n	60m	55	125	CC25	DL47a
48	SN54LS151J	1	8	3	TTL			4.0m	.40	2.0	.60	0.0	5.0	50n	50m	55	125	CC11a	DL25
49	SN54LS151W	1	8	3	TTL			4.0m	.40	2.0	.60	0.0	5.0	50n	50m	55	125	CC11a	A004AG
50	SN54LS151X	1	8	3	TTL			4.0m	.40	2.0	.70	0.0	5.0	43n	50m	55	125	CC11a	CH8b
51	SN54LS152W	1	8	3	TTL			4.0m	.40	2.0	.60	0.0	5.0	50n	45m	55	125	CC12a	A004AA
52	SN54LS251J	1	8	3	TTL			4.0m	.40	2.0	.70s	0.0	5.0	45n	60m	55	125	CC11c	DL25
53	SN54LS251W	1	8	3	TTL			4.0m	.40	2.0	.70s	0.0	5.0	45n	60m	55	125	CC11c	A004AG
54	SN54LS251X	1	8	3	TTL			4.0m	.40	2.0	.70s	0.0	5.0	45n	60m	55	125	CC11c	CH8b
55	SN74LS151X	1	8	3	TTL			4.0m	.40	2.0	.80	0.0	5.0	43n	50m	0	70	CC11a	CH8b
56	SN74LS251X	1	8	3	TTL			4.0m	.40	2.0	.80s	0.0	5.0	45n	60m	0	70	CC11c	CH8b
57▼	ITT74LS151N	1	8	3	TTL			8.0m	.50	2.0	.80	0.0	5.0	43n	50m	0	70	CC1	DL4c
58#	SFC4151LSE	1	8	3	TTL			8.0m	.50	2.0	.80	0.0	5.0	50n	50m	0	70	CC11a	DL47a
59#	SFC4251LSE	1	8	3	TTL			8.0m	.50	2.0	.80	0.0	5.0	45n	60m	0	70	CC25	DL47a
60	SN74LS151J	1	8	3	TTL			8.0m	.50	2.0	.80	0.0	5.0	50n	50m	0	70	CC11a	DL25
61	SN74LS151N	1	8	3	TTL			8.0m	.50	2.0	.80	0.0	5.0	50n	50m	0	70	CC11a	DL26
62	SN74LS251J	1	8	3	TTL			8.0m	.50	2.0	.80s	0.0	5.0	45n	60m	0	70	CC11c	DL25
63	SN74LS251N	1	8	3	TTL			8.0m	.50	2.0	.80s	0.0	5.0	45n	60m	0	70	CC11c	DL26
64	MC10664F	1	8	3	ECL			10m	-.95	-7.8A	-1.8*	5.2	0.0	6.0n	390m	55	125	CC19	FP11
65	MC10664L	1	8	3	ECL			10m	-.95	-7.8A	-1.8*	5.2	0.0	6.0n	390m	55	125	CC19	DL17b
66▼	MC9312L	1	8	3	TTL			11m	.40	1.71	.90†	0.0	5.0	36n	135m†	55	125	CC46	DL17b
67▼	MC8312L	1	8	3	TTL			12m†	.45	1.8†	.85†	0.0	5.0	36n	135m†	0	75	CC46	DL30
68▼	MC8312P	1	8	3	TTL			12m†	.45	1.8†	.85†	0.0	5.0	36n	135m†	0	75	CC46	DL95
69#	T163D2	1	8	3	TTL			12m	.40	2.0	.80	0.0	5.0	36n	200m	55	125	CC35	DL95
70#	T163B1	1	8	3	TTL			14m	.45	1.9	.85	0.0	5.0	36n	215m	0	75	CC35	DL95
71#	T163D1	1	8	3	TTL			14m	.45	1.9	.85	0.0	5.0	36n	215m	0	75	CC35	DL95
72	350BL	1	8	3	DTL			16m	1.5	6.5Δ	5.0*	0.0	12	450n	396m	55	125	CC1	DL17
73	350C	1	8	3	DTL			16m	1.5	6.5Δ	5.0*	0.0	12	450n	396m	30	85	CC1	DL15
74	EL50C	1	8	3	DTL			16m	1.5	6.5Δ	5.0*	0.0	12	450n	396m	30	85	CC1	DL17
75#	FLY121-74151A	1	8	3	TTL			16m	.40	2.0	.80	0.0	5.0	38n	240m	0	70	CC11	DL97
76#	FLY125-84151A	1	8	3	TTL			16m	.40	2.0	.80	0.0	5.0	38n	240m	25	85	CC11	DL97
77#	GBF74151D	1	8	3	TTL			16m	.40	2.0	.80	0.0	5.0	40n	240m	0	70	CC37	DL47c
78▼	ITT9312-1D	1	8	3	TTL			16m	.40	2.0	.80	0.0	5.0	36n	200m	55	125	CC35	DL4e
79▼	ITT9312-5D	1	8	3	TTL			16m	.45	1.9	.85	0.0	5.0	36n	215m	0	75	CC35	DL4e</

17. DIGITAL MULTIPLEXERS/SELECTORS

IN ORDER OF: (1)CKTS/DEVICE
(2)INPUT CHAN/CKT (3)MIN. I(SINK)&(4)TYPE No

LINE No.	TYPE NUMBER	1 CKTS. PER DEV-ICE	2 No. INPUT CHANN PER CKT.	No. OF ADDRESS LINES	T E C H N I C A L	3 MIN. OUTPUT SINK CURRENT		INPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. PROP. DELAY tpd (s)	MAX. OPERATE. PWR. DISS. (W)	OPER. TEMP. (°C)	DRAWINGS			
						I (A)	@ Vo (V)	HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)				LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO		
1	N8230W	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	30n	250m	0	75	CC28	FP15	
2	N8231B	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	30n	250m	0	75	CC28a	DL4a	
3	N8231F	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	30n	250m	0	75	CC28a	DL17h	
4	N8231W	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	30n	250m	0	75	CC28a	FP15	
5	N8232B	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	30n	262m	0	75	CC29	DL4a	
6	N8232F	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	30n	262m	0	75	CC29	DL17h	
7	N8232W	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	30n	262m	0	75	CC29	FP15	
8	N9312B	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	30n	250m	0	75	CC11b	DL4a	
9	N9312F	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	30n	250m	0	75	CC11b	DL17h	
10	N74151B	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	52n	240m	0	70	CC11	DL4a	
11	N74151F	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	52n	240m	0	70	CC11	DL17h	
12	N74152A	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	35n	215m	0	70	CC12	DL13a	
13	N74152F	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	35n	215m	0	70	CC12	DL16d	
14	S82S30B	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	17n	250m	55	125	CC28	DL4a	
15	S82S30F	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	17n	250m	55	125	CC28	DL17h	
16	S82S31B	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	19n	250m	55	125	CC28a	DL4a	
17	S82S31F	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	19n	250m	55	125	CC28a	DL17h	
18	S82S32B	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	17n	262m	55	125	CC29	DL4a	
19	S82S32F	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	17n	262m	55	125	CC29	DL17h	
20	S8230B	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	30n	250m	55	125	CC28	DL4a	
21	S8230F	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	30n	250m	55	125	CC28	DL17h	
22	S8230W	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	30n	250m	55	125	CC28	FP15	
23	S8231B	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	30n	250m	55	125	CC28a	DL4a	
24	S8231F	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	30n	250m	55	125	CC28a	DL17h	
25	S8231W	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	30n	250m	55	125	CC28a	FP15	
26	S8232B	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	30n	262m	55	125	CC29	DL4a	
27	S8232F	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	30n	262m	55	125	CC29	DL17h	
28	S8232W	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	30n	262m	55	125	CC29	DL4a	
29	S9312F	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	30n	250m	55	125	CC11b	DL17h	
30	S9312W	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	30n	250m	55	125	CC11b	FP15	
31	S54151F	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	52n	240m	55	125	CC11	DL17h	
32	S54151W	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	52n	240m	55	125	CC11	FP15	
33	S54152F	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	35n	215m	55	125	CC12	DL16d	
34	S54152W	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	35n	215m	55	125	CC12	FP14	
35#	SFC4151E	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	52n	240m	0	70	CC11a	DL47a	
36#	SFC4151EM	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	52n	240m	55	125	CC11a	DL47a	
37#	SFC4151ET	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	52n	240m	25	85	CC11a	DL47a	
38#	SFC4151JM	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	52n	240m	55	125	CC11a	DL47a	
39#	SFC4151KM	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	52n	240m	55	125	CC11a	DL47a	
40	SN29312J	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	35n	235m	0	75	CC11b	DL25	
41	SN29312N	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	35n	235m	0	75	CC11b	DL26	
42	SN39312J	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	35n	235m	55	125	CC11b	DL25	
43	SN54151AJ	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	38n	240m	55	125	CC11	DL25	
44	SN54151AW	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	38n	240m	55	125	CC11	Δ004AG	
45	SN54152AW	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	38n	215m	55	125	CC12	Δ004AA	
46	SN54251J	1	8	3	TTL	16m	40	2.0	80 ⁵	0.0	5.0	45n	310m	55	125	CC11c	DL25	
47	SN54251W	1	8	3	TTL	16m	40	2.0	80 ⁵	0.0	5.0	45n	310m	55	125	CC11c	Δ004AG	
48	SN74151AJ	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	38n	240m	0	70	CC11	DL25	
49	SN74151AN	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	38n	240m	0	70	CC11	DL26	
50	SN74251J	1	8	3	TTL	16m	40	2.0	80 ⁵	0.0	5.0	45n	310m	0	70	CC11c	DL25	
51	SN74251N	1	8	3	TTL	16m	40	2.0	80 ⁵	0.0	5.0	45n	310m	0	70	CC11c	DL26	
52▼	T9312F	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	36n	220m	0	75	CC46	FP39	
53▼	T9312FM	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	36n	220m	55	125	CC46	FP39	
54▼	T9312J	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	36n	220m	0	75	CC46	DL77c	
55▼	T9312JM	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	36n	220m	55	125	CC46	DL77c	
56#	TL74151N	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	38n	240m	0	70	CC11	DL7	
57#	uPB74151C	1	8	3	TTL	16m	40	2.0	80	0.0	5.0	38n	240m	0	70	CC11	Δ001AC	
58	350AJ	1	8	3	DTL	20m	1.8	6.5Δ	5.0*	0.0	15	450n	600m	30	70	CC1	DL15	
59	350AL	1	8	3	DTL	20m	1.8	6.5Δ	5.0*	0.0	15	450n	600m	30	70	CC1	DL17	
60	350ML	1	8	3	DTL	20m	1.8	6.5Δ	5.0*	0.0	15	450n	600m	55	125	CC1	DL17	
61#	M5S151P	1	8	3	TTL	20m	50	2.0	80	0.0	5.0	18n	350m	0	75	CC11a	DL30a	
62#	M5S251P	1	8	1	TTL	20m	50	2.0	80 ⁵	0.0	5.0	19n	500m	0	75	CC11c	DL30a	
63▼	JANM38510/07901BEA	1	8	3	TTL	20m	50	2.0	80	0.0	5.5	26n	385m	55	125	CC11a	DL99	
64▼	JANM38510/07901BEB	1	8	3	TTL	20m	50	2.0	80	0.0	5.5	26n	385m	55	125	CC11a	DL99	
65▼	JANM38510/07901BFA	1	8	3	TTL	20m	50	2.0	80	0.0	5.5	26n	385m	55	125	CC11a	FP28	
66▼	JANM38510/07901BFB	1	8	3	TTL	20m	50	2.0	80	0.0	5.5	26n	385m	55	125	CC11a	FP28	
67▼	JANM38510/07901CEA	1	8	3	TTL	20m	50	2.0	80	0.0	5.5	26n	385m	55	125	CC11a	DL99	
68▼	JANM38510/07901CEB	1	8	3	TTL	20m	50	2.0	80	0.0	5.5	26n	385m	55	125	CC11a	DL99	
69▼	JANM38510/07901CFA	1	8	3	TTL	20m	50	2.0	80	0.0	5.5	26n	385m	55	125	CC11a	FP28	
70▼	JANM38510/07901CFB	1	8	3	TTL	20m	50	2.0	80	0.0	5.5	26n	385m	55	125	CC11a	FP28	
71	MC10164L	1	8	3	ECL	20m	∅	.96	.81Δ	1.85*	5.2	0.0	6.0n	390m	30	85	CC19	DL17b
72	MC10164P	1	8	3	ECL	20m	∅	.96	.81Δ	1.85*	5.2	0.0	6.0n	390m	30	85	CC19	DL30
73	N74S151B	1	8	3	TTL	20m	50	2.0	80	0.0	5.0	18n	350m	0	70	CC11a	DL4a	
74	N74S151F	1	8	3	TTL	20m	50	2.0	80	0.0	5.0	18n	350m	0	70	CC11a	DL17h	
75	N74S251B	1	8	3	TTL	20m	50	2.0	80 ⁵	0.0	5.0	19n	425m	0	70	CC11c	DL4a	
76	S54S151F	1	8	3	TTL	20m	50	2.0	80	0.0	5.0	18n	350m	55	125	CC11a	DL17h	
77	S54S151W	1	8	3	TTL	20m	50	2.0	80	0.0	5.0	18n	350m	55	125	CC11a	FP15	
78	S54S251F	1	8	3	TTL	20m	50	2.0	80 ⁵	0.0	5.0	19n	425m	55	125	CC11c	DL17h	
79	S54S251W	1	8	3	TTL	20m	50	2.0	80 ⁵	0.0	5.0	19n	425m	0	70	CC11c	FP15	
80	SN54S151J	1	8	3	TTL	20m	50	2.0	80	0.0	5.0	18n	350m	55	125	CC11a	DL25	
81	SN54S151W	1	8	3	TTL	20m	50	2.0	80	0.0	5.0	18n	350m	55	125	CC11a	Δ004AG	
82	SN54S151X	1	8	3	TTL	20m	50	2.0	80	0.0	5.0	18n	350m	55	125	CC11a	CH8c	
83	SN54S251J	1	8	3	TTL	20m	50	2.0	80 ⁵	0.0	5.0	19n	425m	55	125	CC11c	DL25	
84	SN54S251W																	

17. DIGITAL MULTIPLEXERS/SELECTORS

IN ORDER OF: (1)CKTS/DEVICE
(2)INPUT CHAN/CKT (3)MIN. I(SINK)&(4)TYPE No

LINE No.	TYPE NUMBER	CKTS. PER DEV. ICE	No. OF INPUT CHANN PER CKT.	No. OF ADDRESS LINES	TECHN	MIN. OUTPUT CURRENT		INPUT LOGIC LEVEL		RATED SUPPLY SPAN		MAX. PROP. DELAY tpd (s)	MAX. OPERATE PWR. DISS. (W)	OPER. TEMP. (°C)	DRAWINGS LOGIC DWG. No.	OUTLINE DWG. No. $\Delta = MO$	
						I (A)	@ V _o (V)	HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)						
1	JANM38510/01401BLB	1	16	4	TTL	16m	40	2.0	.80	0.0	5.0	43n	340m	55	125	CC10	FP29
2	JANM38510/01401CJB	1	16	4	TTL	16m	40	2.0	.80	0.0	5.0	43n	340m	55	125	CC10	DL100
3	JANM38510/01401CJC	1	16	4	TTL	16m	40	2.0	.80	0.0	5.0	43n	340m	55	125	CC10	DL100
4	JANM38510/01401CLB	1	16	4	TTL	16m	40	2.0	.80	0.0	5.0	43n	340m	55	125	CC10	FP29
5#	M53350P	1	16	4	TTL	16m	40	2.4	.40%	0.0	5.0	35n	340m	0	75	CC10	DL43
6#	MC54150L	1	16	4	TTL	16m	40	2.41	.401	0.0	5.0	35n	200m↑	0	75	CC10	DL38c
7#	MC74150P	1	16	4	TTL	16m	40	2.41	.401	0.0	5.0	35n	200m↑	55	125	CC10	DL39
8#	MC83150P	1	16	4	TTL	16m	40	2.41	.401	0.0	5.0	35n	200m↑	55	125	CC10	DL39
9#	MC93150L	1	16	4	TTL	16m	40	2.41	.401	0.0	5.0	35n	200m↑	0	75	CC10	DL38c
10#	MIC54150J	1	16	4	TTL	16m	40	2.0	.80	0.0	5.0	35n	340m	55	125	CC10	DL34b
11#	MIC74150J	1	16	4	TTL	16m	40	2.0	.80	0.0	5.0	35n	340m	0	75	CC10	DL34b
12	N74150F	1	16	4	TTL	16m	40	2.0	.80	0.0	5.0	52n	340m	0	70	CC10	DL38a
13	N74150N	1	16	4	TTL	16m	40	2.0	.80	0.0	5.0	52n	340m	0	70	CC10	DL20a
14	S54150F	1	16	4	TTL	16m	40	2.0	.80	0.0	5.0	52n	340m	55	125	CC10	DL38a
15	S54150Q	1	16	4	TTL	16m	40	2.0	.80	0.0	5.0	52n	340m	55	125	CC10	FP16
16#	SFC4150E	1	16	4	TTL	16m	40	2.0	.80	0.0	5.0	35n	340m	0	70	CC10	DL50
17#	SFC4150EM	1	16	4	TTL	16m	40	2.0	.80	0.0	5.0	35n	340m	55	125	CC10	DL50
18#	SFC4150ET	1	16	4	TTL	16m	40	2.0	.80	0.0	5.0	35n	340m	25	85	CC10	DL50
19#	SFC4150JM	1	16	4	TTL	16m	40	2.0	.80	0.0	5.0	35n	340m	55	125	CC10	DL50
20#	SFC4150KM	1	16	4	TTL	16m	40	2.0	.80	0.0	5.0	35n	340m	55	125	CC10	DL50
21	SN54150J	1	16	4	TTL	16m	40	2.0	.80	0.0	5.0	35n	340m	55	125	CC10	DL34
22	SN54150W	1	16	4	TTL	16m	40	2.0	.80	0.0	5.0	35n	340m	55	125	CC10	Δ019AA
23	SN74150J	1	16	4	TTL	16m	40	2.0	.80	0.0	5.0	35n	340m	0	70	CC10	DL34
24	SN74150N	1	16	4	TTL	16m	40	2.0	.80	0.0	5.0	35n	340m	0	70	CC10	DL35
25#	TL74150N	1	16	4	TTL	16m	40	2.0	.80	0.0	5.0	35n	340m	0	70	CC10	DL27
26#	UPB74150C	1	16	4	TTL	16m	40	2.0	.80	0.0	5.0	35n	340m	0	70	CC10	DL93
27	MC10132L	2	2	2	ECL	20m∅	-.96	.81Δ	1.85*	5.2	0.0	4.6n	286m	30	85	CC17	DL17b
28	MC10132P	2	2	2	ECL	20m∅	-.96	.81Δ	1.85*	5.2	0.0	4.6n	286m	30	85	CC17	DL30
29	MC10134L	2	2	2	ECL	20m∅	-.96	.81Δ	1.85*	5.2	0.0	4.6n	286m	30	85	CC18	DL17b
30	MC10134P	2	2	2	ECL	20m∅	-.96	.81Δ	1.85*	5.2	0.0	4.6n	286m	30	85	CC18	DL30
31#	GXB10132	2%	2	2	ECL	50m∅	-.81Δ	-.18*	1.8*	5.2	0.0	4.5n↑	286m	0	75	CC38	DL17k
32#	GXB10134	2%	2	2	ECL	50m∅	-.81Δ	-.18*	1.8*	5.2	0.0	4.5n↑	286m	0	75	CC39	DL17k
33#	MB446	2	4	2	TTL	2.0	2.0	.80	0.0	5.0	5.0	135m↑	0	70	CC41	DL17r	
34#	MB446M	2	4	2	TTL	2.0	2.0	.80	0.0	5.0	5.0	135m↑	0	70	CC41	DL17q	
35#	MB10174	2	4	2	ECL	2.0	2.0	.80	0.0	5.0	5.0	305m↑	30	85	CC24	DL17r	
36#	MB10174M	2	4	2	ECL	2.0	2.0	.80	0.0	5.0	5.0	305m↑	30	85	CC24	DL17q	
37#	UPD4539C	2	4	2	CMS	2.0m	.50	1.1	.01%	0.0	10	285n	400m∅	40	85	CC16	Δ001AC
38#	HEF4539P	2	4	2	CMS	2.5m∅	-.70	1.0	3.0	0.0	10	61n	170m↑	40	85	CC2a	DL4g
39#	MC1028P	2	4	2	ECL	2.5m∅	-.70	1.0	1.3	5.2	0.0	9.0n	170m↑	0	75	CC51	DL30
40#	MC1228F	2	4	2	ECL	2.5m∅	-.70	1.0	1.3	5.2	0.0	9.0n	170m↑	55	125	CC51	FP11
41#	MC1228L	2	4	2	ECL	2.5m∅	-.70	1.0	1.3	5.2	0.0	9.0n	170m↑	55	125	CC51	DL116
42	MC14539BCL	2	4	2	CMS	3.0m	1.5	11	4.0	0.0	15	645n	1.2m↑	40	85	CC16	DL17a
43	MC14539BCP	2	4	2	CMS	3.0m	1.5	11	4.0	0.0	15	645n	1.2m↑	40	85	CC16	DL30
44	MC14539BAL	2	4	2	CMS	3.4m	1.5	11	4.0	0.0	15	645n	300m↑	55	125	CC16	DL17a
45#	25LS153JC	2	4	2	TTL	4.0m	4.0	2.0	.80	0.0	5.0	25n	52m	0	70	CC26	DL17w
46#	25LS153JM	2	4	2	TTL	4.0m	4.0	2.0	.80	0.0	5.0	25n	55m	55	125	CC26	DL17w
47#	25LS153WC	2	4	2	TTL	4.0m	4.0	2.0	.80	0.0	5.0	25n	52m	0	70	CC26	FP13b
48#	25LS153WM	2	4	2	TTL	4.0m	4.0	2.0	.80	0.0	5.0	25n	55m	55	125	CC26	FP13b
49#	25LS253JC	2	4	2	TTL	4.0m	4.0	2.0	.80	0.0	5.0	30n	63m	0	70	CC26a	DL17w
50#	25LS253JM	2	4	2	TTL	4.0m	4.0	2.0	.80	0.0	5.0	30n	66m	55	125	CC26a	DL17w
51#	25LS253WC	2	4	2	TTL	4.0m	4.0	2.0	.80	0.0	5.0	30n	63m	0	70	CC26a	FP13b
52#	25LS253WM	2	4	2	TTL	4.0m	4.0	2.0	.80	0.0	5.0	30n	66m	55	125	CC26a	FP13b
53	54LS153CH	2	4	2	TTL	4.0m	4.0	2.0	.70	0.0	5.0	29n	50m	55	125	CC26	CH17f
54	54LS153DM	2	4	2	TTL	4.0m	4.0	2.0	.70	0.0	5.0	29n	50m	55	125	CC26	DL17f
55	54LS153FM	2	4	2	TTL	4.0m	4.0	2.0	.70	0.0	5.0	29n	50m	55	125	CC26	FP13b
56	54LS153J	2	4	2	TTL	4.0m	4.0	2.0	.70	0.0	5.0	29n	50m	55	125	CC26	DL17j
57	54LS153W	2	4	2	TTL	4.0m	4.0	2.0	.70	0.0	5.0	29n	50m	55	125	CC26	DL17j
58	54LS253CH	2	4	2	TTL	4.0m	4.0	2.0	.70s	0.0	5.0	29n	70m	55	125	CC26a	CH17f
59	54LS253DM	2	4	2	TTL	4.0m	4.0	2.0	.70s	0.0	5.0	29n	70m	55	125	CC26a	DL17f
60	54LS253FM	2	4	2	TTL	4.0m	4.0	2.0	.70s	0.0	5.0	29n	70m	55	125	CC26a	FP13
61	54LS253J	2	4	2	TTL	4.0m	4.0	2.0	.70s	0.0	5.0	29n	70m	55	125	CC26a	DL17j
62	54LS253W	2	4	2	TTL	4.0m	4.0	2.0	.70s	0.0	5.0	29n	70m	55	125	CC26a	FP13b
63	74LS153DC	2	4	2	TTL	4.0m	4.0	2.0	.80	0.0	5.0	29n	50m	0	75	CC12a	DL17f
64	74LS153FC	2	4	2	TTL	4.0m	4.0	2.0	.80	0.0	5.0	29n	50m	0	75	CC12a	FP13
65	74LS153PC	2	4	2	TTL	4.0m	4.0	2.0	.80	0.0	5.0	29n	50m	0	75	CC12a	DL52
66	74LS253DC	2	4	2	TTL	4.0m	4.0	2.0	.80s	0.0	5.0	29n	70m	0	75	CC26a	DL17f
67	74LS253FC	2	4	2	TTL	4.0m	4.0	2.0	.80s	0.0	5.0	29n	70m	0	75	CC26a	FP13
68	74LS253PC	2	4	2	TTL	4.0m	4.0	2.0	.80s	0.0	5.0	29n	70m	0	75	CC26a	DL52
69	N74LS153B	2	4	2	TTL	4.0m	4.0	2.0	.80	0.0	5.0	38n	50m	0	70	CC26	DL4a
70	N74LS153F	2	4	2	TTL	4.0m	4.0	2.0	.80	0.0	5.0	38n	50m	0	70	CC26	DL17h
71	S54LS153F	2	4	2	TTL	4.0m	4.0	2.0	.70	0.0	5.0	38n	50m	55	125	CC26	DL17h
72	S54LS153W	2	4	2	TTL	4.0m	4.0	2.0	.70	0.0	5.0	38n	50m	55	125	CC26	FP15
73#	SFC4153LSE	2	4	2	TTL	4.0m	4.0	2.0	.80	0.0	5.0	38n	50m	0	70	CC26	DL47a
74#	SFC4153LSEM	2	4	2	TTL	4.0m	4.0	2.0	.80	0.0	5.0	38n	50m	55	125	CC26	DL47a
75#	SFC4253LSEM	2	4	2	TTL	4.0m	4.0	2.0	.80	0.0	5.0	32n	70m	55	125	CC2b	DL47a
76	SN54LS153J	2	4	2	TTL	4.0m	4.0	2.0	.60	0.0	5.0	38n	50m	0	70	CC26	DL25
77	SN54LS153W	2	4	2	TTL	4.0m	4.0	2.0	.60	0.0	5.0	38n	50m	0	70	CC26	Δ004AG
78	SN54LS153X	2	4	2	TTL	4.0m	4.0	2.0	.70	0.0	5.0	38n	50m	55	125	CC26	CH8c
79	SN54LS253J	2	4	2	TTL	4.0m	4.0	2.0	.60s	0.0	5.0	32n	70m	55	125	CC26a	DL25
80	SN54LS253W	2	4	2	TTL	4.0m	4.0	2.0	.60s	0.0	5.0	32n	70m	55	125	CC26a	Δ004AG
81	SN54LS253X	2	4	2	TTL	4.0m	4.0	2.0	.70s	0.0	5.0	35n	60m	55	125	CC26a	CH8c
82	SN54LS352J	2	4	2	TTL	4.0m	4.0	2.0	.70	0.0	5.0	38n	50m	55	125	CC2a	DL25
83	SN54LS352W	2	4	2	TTL	4.0m	4.0	2.0	.80	0.0</							

17. DIGITAL MULTIPLEXERS/SELECTORS

IN ORDER OF: (1)CKTS/DEVICE (2)INPUT CHAN/CKT (3)MIN. I(SINK)&(4)TYPE No

LINE No.	TYPE NUMBER	1] CKTS PER DEV	2] No. INPUT CHANN PER CKT.	No. OF ADDRESS LINES	T E C H N	3] MIN. OUTPUT SINK CURRENT			INPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. PROP. DELAY tpd (s)	MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO
						I (A)	@ (Vo) (V)	HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)	(-) (°C)			(+) (°C)			
1▼	ITT9309-5D	2	4	2	TTL	16m	.45	1.9	.85	0.0	5.0	36n	215m	0	75	CC13	DL4e	
2▼	ITT9309-5N	2	4	2	TTL	16m	.45	1.9	.85	0.0	5.0	36n	215m	0	75	CC13	DL4c	
3▼	JANN38510/01403AFA	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	44n	260m	55	125	CC26	DL99	
4▼	JANN38510/01403AEB	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	44n	260m	55	125	CC26	DL99	
5▼	JANN38510/01403AEC	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	44n	260m	55	125	CC26	DL99	
6▼	JANN38510/01403BEA	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	44n	260m	55	125	CC26	DL99	
7▼	JANN38510/01403BEB	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	44n	260m	55	125	CC26	DL99	
8▼	JANN38510/01403BEC	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	44n	260m	55	125	CC26	DL99	
9▼	JANN38510/01403BFA	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	44n	260m	55	125	CC26	FP28	
10▼	JANN38510/01403BFB	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	44n	260m	55	125	CC26	FP28	
11▼	JANN38510/01403CEA	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	44n	260m	55	125	CC26	DL99	
12▼	JANN38510/01403CEB	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	44n	260m	55	125	CC26	DL99	
13▼	JANN38510/01403CEC	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	44n	260m	55	125	CC26	FP28	
14▼	JANN38510/01403CFA	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	44n	260m	55	125	CC26	FP28	
15▼	JANN38510/01403CFB	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	44n	260m	55	125	CC26	FP28	
16▼	JANN38510/01404BEA	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	51n	225m	55	125	CC13	DL99	
17▼	JANN38510/01404BEB	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	51n	225m	55	125	CC13	DL99	
18▼	JANN38510/01404BEC	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	51n	225m	55	125	CC13	DL99	
19▼	JANN38510/01404BFA	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	51n	225m	55	125	CC13	FP28	
20▼	JANN38510/01404BFB	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	51n	225m	55	125	CC13	FP28	
21▼	JANN38510/01404BFC	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	51n	225m	55	125	CC13	FP28	
22▼	JANN38510/01404CEA	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	51n	225m	55	125	CC13	DL99	
23▼	JANN38510/01404CEB	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	51n	225m	55	125	CC13	DL99	
24▼	JANN38510/01404CEC	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	51n	225m	55	125	CC13	DL99	
25▼	JANN38510/01404CFA	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	51n	225m	55	125	CC13	FP28	
26▼	JANN38510/01404CFB	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	44n	225m	55	125	CC13	FP28	
27▼	JANN38510/01404CFC	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	44n	225m	55	125	CC13	FP28	
28#	M53353P	2	4	2	TTL	16m	.40	2.4	40%	0.0	5.0	34n	300m	0	75	CC2a	DL30a	
29#	MIC54153J	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	34n	260m	55	125	CC26	DL17n	
30#	MIC74153J	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	34n	300m	0	75	CC26	DL17n	
31#	MIC74153N	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	34n	300m	0	75	CC26	DL96b	
32	N9309B	2	4	2	TTL	16m	.45	2.0	.80	0.0	5.0	36n	175m	0	75	CC13	DL4a	
33	N9309F	2	4	2	TTL	16m	.45	2.0	.80	0.0	5.0	36n	175m	0	75	CC13	DL17h	
34	N74153B	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	34n	300m	0	70	CC26	DL4a	
35	N74153F	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	34n	300m	0	70	CC26	DL17h	
36	S9309F	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	36n	175m	55	125	CC13	DL17h	
37	S9309W	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	36n	175m	55	125	CC13	FP15	
38	S54153F	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	34n	260m	55	125	CC26	DL17h	
39	S54153W	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	34n	260m	55	125	CC26	FP15	
40#	SFC4153E	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	34n	300m	0	70	CC26	DL47a	
41#	SFC4153EM	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	34n	260m	55	125	CC26	DL47a	
42#	SFC4153ET	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	34n	300m	25	85	CC26	DL47a	
43#	SFC4153JM	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	34n	300m	55	125	CC26	DL47a	
44#	SFC4153KM	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	34n	260m	55	125	CC26	DL47a	
45	SN29309J	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	36n	175m	0	75	CC13	DL25	
46	SN29309N	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	36n	175m	0	75	CC13	DL26	
47	SN39309J	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	36n	175m	55	125	CC13	DL25	
48	SN54153J	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	34n	260m	55	125	CC26	DL25	
49	SN54153W	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	34n	260m	55	125	CC26	Δ004AG	
50	SN74153J	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	34n	300m	0	70	CC26	DL25	
51	SN74153N	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	34n	300m	0	70	CC26	DL26	
52#	T164B1	2	4	2	TTL	16m	.45	1.9	.85	0.0	5.0	32n	215m	0	75	CC13	DL96	
53#	T164D1	2	4	2	TTL	16m	.45	1.9	.85	0.0	5.0	32n	215m	0	75	CC13	DL95	
54#	T164D2	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	32n	200m	55	125	CC13	DL95	
55▼	T9309F	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	36n	220m	0	75	CC13	FP39	
56▼	T9309FM	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	32n	220m	55	125	CC13	FP39	
57▼	T9309J	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	36n	220m	0	75	CC13	DL77c	
58▼	T9309JM	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	32n	220m	55	125	CC13	DL77c	
59#	TL74153N	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	34n	300m	0	70	CC26	DL2	
60#	uPB74153C	2	4	2	TTL	16m	.40	2.0	.80	0.0	5.0	34n	300m	0	70	CC26	Δ001AC	
61	351AJ	2	4	2	DTL	20m	1.8	6.5Δ	5.0*	0.0	15	500n	600m	30	70	CC2	DL15	
62	351AL	2	4	2	DTL	20m	1.8	6.5Δ	5.0*	0.0	15	500n	600m	30	70	CC2	DL17	
63	351ML	2	4	2	DTL	20m	1.8	6.5Δ	5.0*	0.0	15	500n	600m	55	125	CC2	DL17	
64▼	JANN38510/07902BEA	2	4	2	TTL	20m	.50	2.0	.80	0.0	5.5	26n	385m	55	125	CC26	DL99	
65▼	JANN38510/07902BEB	2	4	2	TTL	20m	.50	2.0	.80	0.0	5.5	26n	385m	55	125	CC26	DL99	
66▼	JANN38510/07902BFA	2	4	2	TTL	20m	.50	2.0	.80	0.0	5.5	26n	385m	55	125	CC26	FP28	
67▼	JANN38510/07902BFB	2	4	2	TTL	20m	.50	2.0	.80	0.0	5.5	26n	385m	55	125	CC26	FP28	
68▼	JANN38510/07902CEA	2	4	2	TTL	20m	.50	2.0	.80	0.0	5.5	26n	385m	55	125	CC26	DL99	
69▼	JANN38510/07902CEB	2	4	2	TTL	20m	.50	2.0	.80	0.0	5.5	26n	385m	55	125	CC26	DL99	
70▼	JANN38510/07902CFA	2	4	2	TTL	20m	.50	2.0	.80	0.0	5.5	26n	385m	55	125	CC26	FP28	
71▼	JANN38510/07902CFB	2	4	2	TTL	20m	.50	2.0	.80	0.0	5.5	26n	385m	55	125	CC26	FP28	
72	MC10174L	2	4	2	ECL	20m	.96	.81Δ	1.85*	5.2	0.0	6.0n	379m	30	85	CC24	DL17b	
73	N74S153B	2	4	2	TTL	20m	.50	2.0	.80	0.0	5.0	18n	350m	0	70	CC26	DL4a	
74	N74S153F	2	4	2	TTL	20m	.50	2.0	.80	0.0	5.0	18n	350m	0	70	CC26	DL17h	
75	S54S153F	2	4	2	TTL	20m	.50	2.0	.80	0.0	5.0	18n	350m	55	125	CC26	DL17h	
76	S54S153W	2	4	2	TTL	20m	.50	2.0	.80	0.0	5.0	18n	350m	55	125	CC26	FP15	
77#	SFC4153SE	2	4	2	TTL	20m	.50	2.0	.80	0.0	5.25	18n	367m	0	70	CC26	DL47a	
78#	SFC4153SJ	2	4	2	TTL	20m	.50	2.0	.80	0.0	5.25	18n	367m	55	125	CC26	DL47a	
79#	SFC4153SKM	2	4	2	TTL	20m	.50	2.0	.80	0.0	5.25	18n	367m	55	125	CC26	DL47a	
80	SN54S153J	2	4	2	TTL	20m	.50	2.0	.80	0.0	5.0	18n	350m	55	125	CC26	DL25	
81	SN54S153W	2	4	2	TTL	20m	.50	2.0	.80	0.0	5.0	18n	350m	55	125	CC26	Δ004AG	
82	SN54S153X	2	4	2	TTL	20m	.50	2.0	.80	0.0	5.0	18						

17. DIGITAL MULTIPLEXERS/SELECTORS

IN ORDER OF: (1)CKTS/DEVICE
(2)INPUT CHAN./CKT (3)MIN. I(SINK)&(4)TYPE No

LINE No.	TYPE NUMBER	CKTS. PER DEV -ICE	No. OF INPUT CHANN PER CKT.	No. OF ADDRESS LINES	TECHN	MIN. OUTPUT SINK CURRENT		INPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		PROP. DELAY tpd (s)	MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		LOGIC DWG. No.	DRAWINGS OUTLINE DWG. No. Δ=MO
						I (A)	@ Vo (V)	HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)			(-) (°C)	(+) (°C)		
1	MC14519BCP	4	2	2	CMS	3.0m	1.5	11	4.0	0.0	15	500n	1.2m*	40	85	CC15	DL30
2	CD40257BD	4	2	1	CMS	3.4m	1.5	11	4.0	0.0	15	100n	500m	55	125	CC6	A001AE
3	CD40257BE	4	2	1	CMS	3.4m	1.5	11	4.0	0.0	15	100n	500m	40	85	CC6	A001AC
4	CD40257BF	4	2	1	CMS	3.4m	1.5	11	4.0	0.0	15	100n	500m	55	125	CC6	A001AC
5	CD40257BH	4	2	1	CMS	3.4m	1.5	11	4.0	0.0	15	100n	500m	55	125	CC6	CH8ab
6	CD40257BK	4	2	1	CMS	3.4m	1.5	11	4.0	0.0	15	100n	500m	55	125	CC6	A004AG
7	MC14519BAL	4	2	2	CMS	3.4m	1.5	11	4.0	0.0	15	500n	300u*	55	125	CC15	DL17a
8	SN74L98J	4	2	1	TTL	3.6m	.40	2.0	.70	0.0	5.0	200n	45m	0	70	CC22	DL25
9	SN74L98N	4	2	1	TTL	3.6m	.40	2.0	.70	0.0	5.0	200n	45m	0	70	CC22	DL26
10	25LS157JC	4	2	1	TTL	4.0m	.40	2.0	.80	0.0	5.0	20n	84m	0	70	CC4	DL17w
11	25LS157JM	4	2	1	TTL	4.0m	.40	2.0	.70	0.0	5.0	20n	88m	55	125	CC4	DL17w
12	25LS157WC	4	2	1	TTL	4.0m	.40	2.0	.80	0.0	5.0	20n	84m	0	70	CC4	FP13b
13	25LS157WM	4	2	1	TTL	4.0m	.40	2.0	.70	0.0	5.0	20n	88m	55	125	CC4	FP13b
14	25LS158JC	4	2	1	TTL	4.0m	.40	2.0	.80	0.0	5.0	20n	42m	0	70	CC5	DL17w
15	25LS158JM	4	2	1	TTL	4.0m	.40	2.0	.70	0.0	5.0	20n	44m	55	125	CC5	DL17w
16	25LS158WC	4	2	1	TTL	4.0m	.40	2.0	.80	0.0	5.0	20n	42m	0	70	CC5	FP13b
17	25LS158WM	4	2	1	TTL	4.0m	.40	2.0	.70	0.0	5.0	20n	44m	55	125	CC5	FP13b
18	25LS257JC	4	2	1	TTL	4.0m	.40	2.0	.80	0.0	5.0	18n	80m	0	70	CC6	DL17w
19	25LS257JM	4	2	1	TTL	4.0m	.40	2.0	.70	0.0	5.0	18n	84m	55	125	CC6	DL17w
20	25LS257WC	4	2	1	TTL	4.0m	.40	2.0	.80	0.0	5.0	18n	80m	0	70	CC6	FP13b
21	25LS257WM	4	2	1	TTL	4.0m	.40	2.0	.70	0.0	5.0	18n	84m	55	125	CC6	FP13b
22	25LS258JC	4	2	1	TTL	4.0m	.40	2.0	.80	0.0	5.0	18n	58m	0	70	CC7	DL17w
23	25LS258JM	4	2	1	TTL	4.0m	.40	2.0	.70	0.0	5.0	18n	61m	55	125	CC7	DL17w
24	25LS258WC	4	2	1	TTL	4.0m	.40	2.0	.80	0.0	5.0	18n	58m	0	70	CC7	FP13b
25	25LS258WM	4	2	1	TTL	4.0m	.40	2.0	.70	0.0	5.0	18n	61m	55	125	CC7	FP13b
26	54LS157CH	4	2	1	TTL	4.0m	.40	2.0	.70	0.0	5.0	23n	80m	55	125	CC4	CH
27	54LS157DM	4	2	1	TTL	4.0m	.40	2.0	.70	0.0	5.0	26n	80m	55	125	CC4	DL17f
28	54LS157FM	4	2	1	TTL	4.0m	.40	2.0	.70	0.0	5.0	26n	80m	55	125	CC4	FP13
29	54LS157J	4	2	1	TTL	4.0m	.40	2.0	.70	0.0	5.0	23n	80m	55	125	CC4	DL17j
30	54LS157W	4	2	1	TTL	4.0m	.40	2.0	.70	0.0	5.0	23n	80m	55	125	CC4	FP13b
31	54LS158CH	4	2	1	TTL	4.0m	.40	2.0	.70	0.0	5.0	22n	40m	55	125	CC5	CH
32	54LS158DM	4	2	1	TTL	4.0m	.40	2.0	.70	0.0	5.0	24n	40m	55	125	CC5	DL17f
33	54LS158FM	4	2	1	TTL	4.0m	.40	2.0	.70	0.0	5.0	24n	40m	55	125	CC5	FP13
34	54LS158J	4	2	1	TTL	4.0m	.40	2.0	.70	0.0	5.0	24n	40m	55	125	CC5	DL17j
35	54LS158W	4	2	1	TTL	4.0m	.40	2.0	.70	0.0	5.0	22n	40m	55	125	CC5	FP13b
36	54LS257CH	4	2	1	TTL	4.0m	.40	2.0	.70s	0.0	5.0	18n	85m	55	125	CC6	CH
37	54LS257DM	4	2	1	TTL	4.0m	.40	2.0	.70	0.0	5.0	21n	85m	55	125	CC6	DL17f
38	54LS257FM	4	2	1	TTL	4.0m	.40	2.0	.70	0.0	5.0	21n	85m	55	125	CC6	FP13
39	54LS257J	4	2	1	TTL	4.0m	.40	2.0	.70s	0.0	5.0	18n	85m	55	125	CC6	DL17j
40	54LS257W	4	2	1	TTL	4.0m	.40	2.0	.70s	0.0	5.0	18n	85m	55	125	CC6	FP13b
41	54LS258CH	4	2	1	TTL	4.0m	.40	2.0	.70s	0.0	5.0	18n	60m	55	125	CC7	CH
42	54LS258DM	4	2	1	TTL	4.0m	.40	2.0	.70	0.0	5.0	21n	60m	55	125	CC7	DL17f
43	54LS258FM	4	2	1	TTL	4.0m	.40	2.0	.70	0.0	5.0	21n	60m	55	125	CC7	FP13
44	54LS258J	4	2	1	TTL	4.0m	.40	2.0	.70s	0.0	5.0	18n	60m	55	125	CC7	DL17j
45	54LS258W	4	2	1	TTL	4.0m	.40	2.0	.70s	0.0	5.0	18n	60m	55	125	CC7	FP13b
46	74LS157DC	4	2	1	TTL	4.0m	.40	2.0	.80	0.0	5.0	26n	80m	0	75	CC4	DL17f
47	74LS157FC	4	2	1	TTL	4.0m	.40	2.0	.80	0.0	5.0	26n	80m	0	75	CC4	FP13
48	74LS157PC	4	2	1	TTL	4.0m	.40	2.0	.80	0.0	5.0	26n	80m	0	75	CC4	DL52
49	74LS158DC	4	2	1	TTL	4.0m	.40	2.0	.80	0.0	5.0	24n	40m	0	75	CC5	DL17f
50	74LS158FC	4	2	1	TTL	4.0m	.40	2.0	.80	0.0	5.0	24n	40m	0	75	CC5	FP13
51	74LS158PC	4	2	1	TTL	4.0m	.40	2.0	.80	0.0	5.0	24n	40m	0	75	CC5	DL52
52	74LS257DC	4	2	1	TTL	4.0m	.40	2.0	.80	0.0	5.0	21n	85m	0	75	CC6	DL17f
53	74LS257FC	4	2	1	TTL	4.0m	.40	2.0	.80	0.0	5.0	21n	85m	0	75	CC6	FP13
54	74LS257PC	4	2	1	TTL	4.0m	.40	2.0	.80	0.0	5.0	21n	85m	0	75	CC6	DL52
55	74LS258DC	4	2	1	TTL	4.0m	.40	2.0	.80	0.0	5.0	21n	60m	0	75	CC7	DL17f
56	74LS258FC	4	2	1	TTL	4.0m	.40	2.0	.80	0.0	5.0	21n	60m	0	75	CC7	FP13
57	74LS258PC	4	2	1	TTL	4.0m	.40	2.0	.80	0.0	5.0	21n	60m	0	75	CC7	DL52
58	N74LS157B	4	2	1	TTL	4.0m	.40	2.0	.80	0.0	5.0	27n	80m	0	70	CC4	DL4a
59	N74LS157F	4	2	1	TTL	4.0m	.40	2.0	.80	0.0	5.0	27n	80m	0	70	CC4	DL17h
60	N74LS158B	4	2	1	TTL	4.0m	.40	2.0	.80	0.0	5.0	24n	40m	0	70	CC5	DL4a
61	N74LS158F	4	2	1	TTL	4.0m	.40	2.0	.80	0.0	5.0	24n	40m	0	70	CC5	DL17h
62	N74LS258B	4	2	1	TTL	4.0m	.40	2.0	.80	0.0	5.0	21n	60m	0	70	CC7	DL4a
63	S54LS157F	4	2	1	TTL	4.0m	.40	2.0	.70	0.0	5.0	27n	80m	55	125	CC4	DL17h
64	S54LS157W	4	2	1	TTL	4.0m	.40	2.0	.70	0.0	5.0	27n	80m	55	125	CC4	FP15
65	S54LS158F	4	2	1	TTL	4.0m	.40	2.0	.70	0.0	5.0	24n	40m	55	125	CC5	DL17h
66	S54LS158W	4	2	1	TTL	4.0m	.40	2.0	.70	0.0	5.0	24n	40m	55	125	CC5	FP15
67	S54LS258F	4	2	1	TTL	4.0m	.40	2.0	.70	0.0	5.0	21n	60m	55	125	CC7	DL17h
68	S54LS258W	4	2	1	TTL	4.0m	.40	2.0	.70	0.0	5.0	21n	60m	55	125	CC7	FP15
69	SFC4157LSEM	4	2	1	TTL	4.0m	.40	2.0	.80	0.0	5.0	27n	80m	55	125	CC4	DL47a
70	SN54LS157J	4	2	1	TTL	4.0m	.40	2.0	.70	0.0	5.0	27n	80m	55	125	CC4	DL25
71	SN54LS157W	4	2	1	TTL	4.0m	.40	2.0	.70	0.0	5.0	27n	80m	55	125	CC4	A004AG
72	SN54LS158J	4	2	1	TTL	4.0m	.40	2.0	.70	0.0	5.0	54n	120m	55	125	CC5	DL25
73	SN54LS158W	4	2	1	TTL	4.0m	.40	2.0	.70	0.0	5.0	54n	120m	55	125	CC5	A004AG
74	SN54LS257J	4	2	1	TTL	4.0m	.40	2.0	.70	0.0	5.0	21n	50m	55	125	CC6	DL25
75	SN54LS257W	4	2	1	TTL	4.0m	.40	2.0	.70	0.0	5.0	21n	50m	55	125	CC6	A004AG
76	SN54LS257X	4	2	1	TTL	4.0m	.40	2.0	.70s	0.0	5.0	21n	85m	55	125	CC6	CH8b
77	SN54LS258J	4	2	1	TTL	4.0m	.40	2.0	.70	0.0	5.0	21n	35m	55	125	CC7	DL25
78	SN54LS258W	4	2	1	TTL	4.0m	.40	2.0	.70	0.0	5.0	21n	35m	55	125	CC7	A004AG
79	SN54LS258X	4	2	1	TTL	4.0m	.40	2.0	.70s	0.0	5.0	21n	60m	55	125	CC7	CH8b
80	SN54LS298J	4	2	1	TTL	4.0m	.40	2.0	.70	0.0	5.0	32n	105m	55	125	CC8	DL25
81	SN54LS298W	4	2	1	TTL	4.0m	.40	2.0	.70	0.0	5.0	32n	105m	55	125	CC8	A004AG
82	SN54LS398J	4	2	1	TTL	4.0m	.40	2.0	.70	0.0	5.0	32n	65m	55	125	CC8a	DL
83	SN54LS399J	4	2	1	TTL	4.0m	.40	2.0	.70	0.0	5.0	32n	65m	55	125	CC8b	DL25
84	SN54LS399W	4	2	1	TTL	4.0m	.40	2.0	.70	0.0	5.0	32n	65m	55	125	CC8b	A004AG
85	SN74LS257X	4	2	1													

17. DIGITAL MULTIPLEXERS/SELECTORS

IN ORDER OF: (1)CKTS/DEVICE
(2)INPUT CHAN/CKT (3)MIN. I(SINK)&(4)TYPE No

LINE No.	TYPE NUMBER	1 CKTS. PER DEV -ICE	2 No. INPUT CHANN PER CKT.	No. OF ADDRESS LINES	T E C H N	3 MIN. OUTPUT SINK CURRENT		INPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. PROP. DELAY tpd (s)	MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO
						I (A)	@ Vo (V)	HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)			(-) (°C)	(+) (°C)		
1▼	ITT9322-1D	4	2	1	TTL	16m	.40	2.0	.80	0.0	5.0	27n	215m	55	125	CC36	DL4e
2▼	ITT9322-5D	4	2	1	TTL	16m	.45	1.9	.85	0.0	5.0	31n	225m	0	75	CC36	DL4e
3▼	ITT9322-5N	4	2	1	TTL	16m	.45	1.9	.85	0.0	5.0	31n	225m	0	75	CC36	DL4c
4	JANM38510/01405BEA	4	2	1	TTL	16m	.40	2.0	.80	0.0	5.0	49n	250m	55	125	CC36	DL99
5	JANM38510/01405BEB	4	2	1	TTL	16m	.40	2.0	.80	0.0	5.0	49n	250m	55	125	CC36	DL99
6	JANM38510/01405BEC	4	2	1	TTL	16m	.40	2.0	.80	0.0	5.0	49n	250m	55	125	CC36	DL99
7▼	JANM38510/01405BFA	4	2	1	TTL	16m	.40	2.0	.80	0.0	5.0	49n	250m	55	125	CC36	FP28
8	JANM38510/01405BFB	4	2	1	TTL	16m	.40	2.0	.80	0.0	5.0	49n	250m	55	125	CC36	FP28
9	JANM38510/01405BFC	4	2	1	TTL	16m	.40	2.0	.80	0.0	5.0	49n	250m	55	125	CC36	FP28
10	JANM38510/01405CEA	4	2	1	TTL	16m	.40	2.0	.80	0.0	5.0	49n	250m	55	125	CC36	DL99
11	JANM38510/01405CEB	4	2	1	TTL	16m	.40	2.0	.80	0.0	5.0	49n	250m	55	125	CC36	DL99
12	JANM38510/01405CEC	4	2	1	TTL	16m	.40	2.0	.80	0.0	5.0	49n	250m	55	125	CC36	DL99
13▼	JANM38510/01405CFA	4	2	1	TTL	16m	.40	2.0	.80	0.0	5.0	49n	250m	55	125	CC36	FP28
14	JANM38510/01405CFB	4	2	1	TTL	16m	.40	2.0	.80	0.0	5.0	49n	250m	55	125	CC36	FP28
15	JANM38510/01405CFC	4	2	1	TTL	16m	.40	2.0	.80	0.0	5.0	49n	250m	55	125	CC36	FP28
16#	M53357P	4	2	1	TTL	16m	.40	2.0	.80	0.0	5.0	27n	240m	0	75	CC3	DL30a
17#	M53358P	4	2	1	TTL	16m	.40	2.0	.80	0.0	5.0	27n	190m	0	75	CC27	DL30a
18▼	MC7266L	4	2	1	TTL	16m	.40	4.5†	.40†	0.0	5.0	30n	271m	0	75	CC48	DL17b
19▼	MC7266P	4	2	1	TTL	16m	.40	4.5†	.40†	0.0	5.0	30n	271m	55	125	CC48	DL30
20▼	MC7267L	4	2	1	TTL	16m	.40	4.5†	.40†	0.0	5.0	36n	271m	0	75	CC48	DL17b
21▼	MC7267P	4	2	1	TTL	16m	.40	4.5†	.40†	0.0	5.0	36n	271m	55	125	CC48	DL30
22▼	MC8266L	4	2	1	TTL	16m	.40	4.5†	.40†	0.0	5.0	30n	271m	0	75	CC48	DL17b
23▼	MC8267L	4	2	1	TTL	16m	.40	4.5†	.40†	0.0	5.0	36n	271m	0	75	CC48	DL17b
24▼	MC8322F	4	2	1	TTL	16m	.40	2.4†	.40†	0.0	5.0	27n	150m†	0	75	CC36	DL30
25▼	MC8322L	4	2	1	TTL	16m	.40	2.4†	.40†	0.0	5.0	27n	150m†	0	75	CC36	DL17b
26▼	MC8322P	4	2	1	TTL	16m	.40	2.4†	.40†	0.0	5.0	27n	150m†	0	75	CC36	FP11
27▼	MC9322F	4	2	1	TTL	16m	.40	2.4†	.40†	0.0	5.0	27n	150m†	55	125	CC36	FP11
28▼	MC9322L	4	2	1	TTL	16m	.40	2.4†	.40†	0.0	5.0	27n	150m†	55	125	CC36	DL17b
29▼	MC54157F	4	2	1	TTL	16m	.40	2.4†	.40†	0.0	5.0	27n	150m†	55	125	CC36	FP11
30▼	MC54157L	4	2	1	TTL	16m	.40	2.4†	.40†	0.0	5.0	27n	150m†	55	125	CC36	DL17b
31▼	MC74157F	4	2	1	TTL	16m	.40	2.4†	.40†	0.0	5.0	27n	150m†	0	75	CC36	FP11
32▼	MC74157L	4	2	1	TTL	16m	.40	2.4†	.40†	0.0	5.0	27n	150m†	0	75	CC36	DL17b
33▼	MC74157P	4	2	1	TTL	16m	.40	2.4†	.40†	0.0	5.0	27n	150m†	0	75	CC36	DL30
34▼#	MIC54157J	4	2	1	TTL	16m	.40	2.0	.80	0.0	5.0	27n	240m	55	125	CC3	DL4f
35▼#	MIC74157J	4	2	1	TTL	16m	.40	2.0	.80	0.0	5.0	27n	240m	0	75	CC3	DL4f
36▼#	MIC74157N	4	2	1	TTL	16m	.40	2.0	.80	0.0	5.0	27n	240m	0	75	CC3	DL4f
37	N82S33B	4	2	2	TTL	16m	.40	2.0	.80	0.0	5.0	18n\$	252m	0	75	CC30	DL4a
38	N82S33F	4	2	2	TTL	16m	.40	2.0	.80	0.0	5.0	18n\$	252m	0	75	CC30	DL17h
39	N82S34B	4	2	2	TTL	16m	.40	2.0	.80	0.0	5.0	18n\$	210m	0	75	CC31	DL4a
40	N82S34F	4	2	2	TTL	16m	.40	2.0	.80	0.0	5.0	18n\$	210m	0	75	CC31	DL17h
41	N8233B	4	2	2	TTL	16m	.40	2.0	.80	0.0	5.0	38n\$	252m	0	75	CC30	DL4a
42	N8233F	4	2	2	TTL	16m	.40	2.0	.80	0.0	5.0	38n\$	252m	0	75	CC30	DL17h
43	N8233W	4	2	2	TTL	16m	.40	2.0	.80	0.0	5.0	38n\$	252m	0	75	CC30	FP15
44	N8234B	4	2	2	TTL	16m	.40	2.0	.80	0.0	5.0	38n\$	210m	0	75	CC31	DL4a
45	N8234F	4	2	2	TTL	16m	.40	2.0	.80	0.0	5.0	38n\$	210m	0	75	CC31	DL17h
46	N8234W	4	2	2	TTL	16m	.40	2.0	.80	0.0	5.0	38n\$	210m	0	75	CC31	FP15
47	N8235B	4	2	2	TTL	16m	.40	2.0	.80	0.0	5.0	38n\$	310m	0	75	CC32	DL4a
48	N8235F	4	2	2	TTL	16m	.40	2.0	.80	0.0	5.0	38n\$	310m	0	75	CC32	DL17h
49	N8235W	4	2	2	TTL	16m	.40	2.0	.80	0.0	5.0	38n\$	310m	0	75	CC32	FP15
50	N74157B	4	2	1	TTL	16m	.40	2.0	.80	0.0	5.0	27n	240m	0	70	CC3	DL4a
51	N74157F	4	2	1	TTL	16m	.40	2.0	.80	0.0	5.0	27n	240m	0	70	CC3	DL17h
52	N74158B	4	2	1	TTL	16m	.40	2.0	.80	0.0	5.0	27n	240m	0	70	CC5	DL4a
53	N74158F	4	2	1	TTL	16m	.40	2.0	.80	0.0	5.0	27n	240m	0	70	CC5	DL17h
54	N74298B	4	2	1	TTL	16m	.40	2.0	.80	0.0	5.0	32n	325m	0	70	CC8	DL4a
55	S82S33B	4	2	2	TTL	16m	.40	2.0	.80	0.0	5.0	18n\$	252m	55	125	CC30	DL4a
56	S82S33F	4	2	2	TTL	16m	.40	2.0	.80	0.0	5.0	18n\$	252m	55	125	CC30	DL17h
57	S82S34B	4	2	2	TTL	16m	.40	2.0	.80	0.0	5.0	18n\$	210m	55	125	CC31	DL4a
58	S82S34F	4	2	2	TTL	16m	.40	2.0	.80	0.0	5.0	18n\$	210m	55	125	CC31	DL17h
59	S8233B	4	2	2	TTL	16m	.40	2.0	.80	0.0	5.0	38n\$	252m	55	125	CC30	DL4a
60	S8233F	4	2	2	TTL	16m	.40	2.0	.80	0.0	5.0	38n\$	252m	55	125	CC30	DL17h
61	S8233W	4	2	2	TTL	16m	.40	2.0	.80	0.0	5.0	38n\$	252m	55	125	CC30	FP15
62	S8234B	4	2	2	TTL	16m	.40	2.0	.80	0.0	5.0	38n\$	210m	55	125	CC31	DL4a
63	S8234F	4	2	2	TTL	16m	.40	2.0	.80	0.0	5.0	38n\$	210m	55	125	CC31	DL17h
64	S8234W	4	2	2	TTL	16m	.40	2.0	.80	0.0	5.0	38n\$	210m	55	125	CC31	FP15
65	S8235B	4	2	2	TTL	16m	.40	2.0	.80	0.0	5.0	38n\$	310m	55	125	CC32	DL4a
66	S8235F	4	2	2	TTL	16m	.40	2.0	.80	0.0	5.0	38n\$	310m	55	125	CC32	DL17h
67	S8235W	4	2	2	TTL	16m	.40	2.0	.80	0.0	5.0	38n\$	310m	55	125	CC32	FP15
68	S54157F	4	2	1	TTL	16m	.40	2.0	.80	0.0	5.0	27n	240m	55	125	CC3	DL17h
69	S54157W	4	2	1	TTL	16m	.40	2.0	.80	0.0	5.0	27n	240m	55	125	CC3	FP15
70	S54158F	4	2	1	TTL	16m	.40	2.0	.80	0.0	5.0	27n	240m	55	125	CC5	DL17h
71	S54158W	4	2	1	TTL	16m	.40	2.0	.80	0.0	5.0	27n	240m	55	125	CC5	FP15
72	S54298F	4	2	1	TTL	16m	.40	2.0	.80	0.0	5.0	32n	325m	55	125	CC8	DL17h
73	S54298W	4	2	1	TTL	16m	.40	2.0	.80	0.0	5.0	32n	325m	55	125	CC8	FP15
74#	SFC4157E	4	2	1	TTL	16m	.40	2.0	.80	0.0	5.0	27n	240m	0	70	CC3	DL47a
75#	SFC4157EM	4	2	1	TTL	16m	.40	2.0	.80	0.0	5.0	27n	240m	55	125	CC3	DL47a
76#	SFC4157ET	4	2	1	TTL	16m	.40	2.0	.80	0.0	5.0	27n	240m	25	85	CC3	DL47a
77#	SFC4157JM	4	2	1	TTL	16m	.40	2.0	.80	0.0	5.0	27n	240m	55	125	CC3	DL47a
78#	SFC4157KM	4	2	1	TTL	16m	.40	2.0	.80	0.0	5.0	27n	240m	55	125	CC3	DL47a
79	SN29322J	4	2	1	TTL	16m	.40	2.0	.80	0.0	5.0	27n	240m	0	75	CC3	DL25
80	SN29322N	4	2	1	TTL	16m	.40	2.0	.80	0.0	5.0	27n	240m	0	75	CC3	DL26
81	SN39322J	4	2	1	TTL	16m	.40	2.0	.80	0.0	5.0	27n	240m	55	125	CC3	DL25
82	SN54157J	4	2	1	TTL	16m	.40	2.0	.80	0.0	5.0	27n	240m	55	125	CC3	DL25
83	SN54157W	4	2	1	TTL	16m	.40	2.0	.80	0.0	5.0	27n	240m	55	125	CC3	A004AG
84	SN5																

17. DIGITAL MULTIPLEXERS/SELECTORS

IN ORDER OF: (1)CKTS/DEVICE
(2)INPUT CHAN./CKT (3)MIN. I(SINK)&(4)TYPE No

LINE No.	TYPE NUMBER	1 CKTS. PER DEV -ICE	2 No. INPUT CHANN PER CKT.	No. OF ADDRESS LINES	T E C H N	3 MIN. OUTPUT SINK CURRENT		INPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. PROP. DELAY tpd (s)	MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS	
						I (A)	@ Vo (V)	HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)			(-) (°C)	(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO
1▼	JANM38510/07903CEA	4	2	1	TTL	20m	.50	2.0	.80	0.0	5.5	18n	430m	55	125	CC4	DL99
2▼	JANM38510/07903CEB	4	2	1	TTL	20m	.50	2.0	.80	0.0	5.5	18n	430m	55	125	CC4	DL99
3▼	JANM38510/07903CEA	4	2	1	TTL	20m	.50	2.0	.80	0.0	5.5	18n	430m	55	125	CC4	FP28
4▼	JANM38510/07903CFB	4	2	1	TTL	20m	.50	2.0	.80	0.0	5.5	18n	430m	55	125	CC4	FP28
5	MC10173L	4	2	1	ECL	20m∅	-.96	.81Δ	1.85*	5.2	0.0	6.2n	343m	30	85	CC23	DL17b
6	MC10173P	4	2	1	ECL	20m∅	-.96	.81Δ	1.85*	5.2	0.0	3.5n†	343m	30	85	CC23	DL30
7	N74S157B	4	2	1	TTL	20m	.50	2.0	.80	0.0	5.0	15n	390m	0	70	CC4	DL4a
8	N74S157F	4	2	1	TTL	20m	.50	2.0	.80	0.0	5.0	15n	390m	0	70	CC4	DL17h
9	N74S158B	4	2	1	TTL	20m	.50	2.0	.80	0.0	5.0	12n	305m	0	70	CC5	DL14a
10	N74S158F	4	2	1	TTL	20m	.50	2.0	.80	0.0	5.0	12n	305m	0	70	CC5	DL17h
11	N74S258B	4	2	1	TTL	20m	.50	2.0	.80	0.0	5.0	12n	435m	0	70	CC7	DL4a
12	S54S157F	4	2	1	TTL	20m	.50	2.0	.80	0.0	5.0	15n	390m	55	125	CC4	DL17h
13	S54S157W	4	2	1	TTL	20m	.50	2.0	.80	0.0	5.0	15n	390m	55	125	CC4	FP15
14	S54S158F	4	2	1	TTL	20m	.50	2.0	.80	0.0	5.0	12n	305m	55	125	CC5	DL17h
15	S54S158W	4	2	1	TTL	20m	.50	2.0	.80	0.0	5.0	12n	305m	55	125	CC5	FP15
16	S54S258F	4	2	1	TTL	20m	.50	2.0	.80	0.0	5.0	12n	405m	55	125	CC7	DL17h
17	S54S258W	4	2	1	TTL	20m	.50	2.0	.80	0.0	5.0	12n	405m	55	125	CC7	FP15
18#	SFC4157SE	4	2	1	TTL	20m	.50	2.0	.80	0.0	5.0	15n	390m	0	70	CC4	DL47a
19#	SFC4157SJM	4	2	1	TTL	20m	.50	2.0	.80	0.0	5.0	15n	390m	55	125	CC4	DL47a
20#	SFC4157SKM	4	2	1	TTL	20m	.50	2.0	.80	0.0	5.0	15n	390m	55	125	CC4	DL47a
21#	SFC4158SE	4	2	1	TTL	20m	.50	2.0	.80	0.0	5.0	12n	305m	0	70	CC5	DL47a
22#	SFC4158SJM	4	2	1	TTL	20m	.50	2.0	.80	0.0	5.0	12n	305m	55	125	CC5	DL47a
23#	SFC4158SKM	4	2	1	TTL	20m	.50	2.0	.80	0.0	5.0	12n	305m	55	125	CC5	DL47a
24	SN54S157J	4	2	1	TTL	20m	.50	2.0	.80	0.0	5.0	15n	390m	55	125	CC4	DL25
25	SN54S157W	4	2	1	TTL	20m	.50	2.0	.80	0.0	5.0	15n	390m	55	125	CC4	Δ004AG
26	SN54S158J	4	2	1	TTL	20m	.50	2.0	.80	0.0	5.0	12n	305m	55	125	CC5	DL25
27	SN54S158W	4	2	1	TTL	20m	.50	2.0	.80	0.0	5.0	12n	305m	55	125	CC5	Δ004AG
28	SN54S257J	4	2	1	TTL	20m	.50	2.0	.80	0.0	5.0	15n	495m	55	125	CC6	DL25
29	SN54S257W	4	2	1	TTL	20m	.50	2.0	.80	0.0	5.0	15n	495m	55	125	CC6	Δ004AG
30	SN54S257X	4	2	1	TTL	20m	.50	2.0	.80s	0.0	5.0	15n	495m	55	125	CC6	CH8f
31	SN54S258J	4	2	1	TTL	20m	.50	2.0	.80	0.0	5.0	12n	435m	55	125	CC7	DL25
32	SN54S258W	4	2	1	TTL	20m	.50	2.0	.80	0.0	5.0	12n	435m	55	125	CC7	Δ004AG
33	SN54S258X	4	2	1	TTL	20m	.50	2.0	.80s	0.0	5.0	12n	435m	55	125	CC7	CH8f
34	SN74S157J	4	2	1	TTL	20m	.50	2.0	.80	0.0	5.0	15n	390m	0	70	CC4	DL25
35	SN74S157N	4	2	1	TTL	20m	.50	2.0	.80	0.0	5.0	15n	390m	0	70	CC4	DL26
36	SN74S158J	4	2	1	TTL	20m	.50	2.0	.80	0.0	5.0	12n	305m	0	70	CC5	DL25
37	SN74S158N	4	2	1	TTL	20m	.50	2.0	.80	0.0	5.0	12n	305m	0	70	CC5	DL26
38	SN74S257J	4	2	1	TTL	20m	.50	2.0	.80	0.0	5.0	15n	495m	0	70	CC6	DL25
39	SN74S257N	4	2	1	TTL	20m	.50	2.0	.80	0.0	5.0	15n	495m	0	70	CC6	DL26
40	SN74S257X	4	2	1	TTL	20m	.50	2.0	.80s	0.0	5.0	15n	495m	0	70	CC6	CH8f
41	SN74S258J	4	2	1	TTL	20m	.50	2.0	.80	0.0	5.0	12n	435m	0	70	CC7	DL25
42	SN74S258N	4	2	1	TTL	20m	.50	2.0	.80	0.0	5.0	12n	435m	0	70	CC7	DL26
43	SN74S258X	4	2	1	TTL	20m	.50	2.0	.80s	0.0	5.0	12n	435m	0	70	CC7	CH8f
44▼	T54S157F	4	2	1	TTL	20m	.50	2.0	.80	0.0	5.0	15n	390m	55	125	CC3	FP39a
45▼	T54S157J	4	2	1	TTL	20m	.50	2.0	.80	0.0	5.0	15n	390m	55	125	CC3	DL30d
46▼	T54S158F	4	2	1	TTL	20m	.50	2.0	.80	0.0	5.0	12n	305m	55	125	CC45	FP39a
47▼	T54S158J	4	2	1	TTL	20m	.50	2.0	.80	0.0	5.0	12n	305m	55	125	CC45	DL30d
48▼	T74S157F	4	2	1	TTL	20m	.50	2.0	.80	0.0	5.0	15n	390m	0	70	CC3	FP39a
49▼	T74S157J	4	2	1	TTL	20m	.50	2.0	.80	0.0	5.0	15n	390m	0	70	CC3	DL30d
50▼	T74S158F	4	2	1	TTL	20m	.50	2.0	.80	0.0	5.0	12n	305m	0	70	CC45	FP39a
51▼	T74S158J	4	2	1	TTL	20m	.50	2.0	.80	0.0	5.0	12n	305m	0	70	CC45	DL30d
52▼	SN74LS257AJ	4	2	1	TTL	24m	.50	2.0	.80s	0.0	5.0	18n	95m♦	0	70	CC6	DL25
53▼	SN74LS257AN	4	2	1	TTL	24m	.50	2.0	.80s	0.0	5.0	18n	95m♦	0	70	CC6	DL26
54▼	SN74LS258AJ	4	2	1	TTL	24m	.50	2.0	.80s	0.0	5.0	18n	95m♦	0	70	CC7	DL25
55▼	SN74LS258AN	4	2	1	TTL	24m	.50	2.0	.80s	0.0	5.0	18n	95m♦	0	70	CC7	DL26
56#	GXB10173	4%	2	3	ECL	50m∇		-.81Δ	-1.8*	5.2	0.0	4.5n†	405m	0	75	CC40	DL17k
57	N8263F	4	3	2	TTL	9.6m	.40	2.0	.80	0.0	5.0	36n	420m	0	75	CC33	DL38a
58	N8263N	4	3	2	TTL	9.6m	.40	2.0	.80	0.0	5.0	36n	420m	0	75	CC33	DL20a
59	N8263Q	4	3	2	TTL	9.6m	.40	2.0	.80	0.0	5.0	36n	420m	0	75	CC33	FP16
60	S8263F	4	3	2	TTL	9.6m	.40	2.0	.80	0.0	5.0	36n	420m	55	125	CC33	DL38a
61	S8263N	4	3	2	TTL	9.6m	.40	2.0	.80	0.0	5.0	36n	420m	55	125	CC33	DL20a
62	S8263Q	4	3	2	TTL	9.6m	.40	2.0	.80	0.0	5.0	36n	420m	55	125	CC33	FP16
63	N8264F	4	3	2	TTL	16m	.40	2.0	.80	0.0	5.0	36n	475m	0	75	CC34	DL38a
64	N8264N	4	3	2	TTL	16m	.40	2.0	.80	0.0	5.0	36n	475m	0	75	CC34	DL20a
65	N8264Q	4	3	2	TTL	16m	.40	2.0	.80	0.0	5.0	36n	475m	0	75	CC34	FP16
66	S8264F	4	3	2	TTL	16m	.40	2.0	.80	0.0	5.0	36n	475m	55	125	CC34	DL38a
67	S8264N	4	3	2	TTL	16m	.40	2.0	.80	0.0	5.0	36n	475m	55	125	CC34	DL20a
68	S8264Q	4	3	2	TTL	16m	.40	2.0	.80	0.0	5.0	36n	475m	55	125	CC34	FP16
69▼	5567	6	4	2		14m	.40	2.0	.90	0.0	5.0	32n	425m†	0	70	CC43	PC12

18. DIGITAL DEMULTIPLEXERS/DECODERS

IN ORDER OF: (1)CKTS/DEV (2)OUTPUT CHAN/CKT. (3)MIN.OUTPUT SINK CURR. & (4)TYPE NUMBER

LINE No.	TYPE NUMBER	DEMULTIPLEX		DECODER		T E C H N I C A L	3 MIN. OUTPUT SINK CURRENT		INPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. PROP. DELAY tpd (s)	MAX. OPERATE PWR. DISSIP. (W)		OPER. TEMP.		LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO
		CKTS. PER DEV.	2. NO. OUTPUT CHAN/CKT.	LINES FROM	LINES TO		I (A)	Vo (V)	HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)		PWR. (W)	PWR. (W)	(-) (°C)	(+) (°C)		
1▼	MB444	1	4	4	4	TTL			2.0	.80	0.0	5.0		200m1	0	70		CD14	DL17f
2▼	MB444M	1	4	4	4	TTL			2.0	.80	0.0	5.0		200m1	0	70		CD14	DL17q
3▼	25LS138JC	1	8	3	8	TTL	4.0m	.40	2.0	.80	0.0	5.0	27n	52m	0	70		CD8	DL17w
4▼	25LS138JM	1	8	3	8	TTL	4.0m	.40	2.0	.70	0.0	5.0	27n	55m	55	125		CD8	DL17w
5▼	25LS138WC	1	8	3	8	TTL	4.0m	.40	2.0	.80	0.0	5.0	27n	52m	0	70		CD8	FP13b
6▼	25LS138WM	1	8	3	8	TTL	4.0m	.40	2.0	.70	0.0	5.0	27n	55m	55	125		CD8	FP13b
7	54LS138CH	1	8	3	8	TTL	4.0m	.40	2.0	.70	0.0	5.0	28n	50m	55	125		CD8	CHI2
8	54LS138DM	1	8	3	8	TTL	4.0m	.40	2.0	.70	0.0	5.0	27n	50m	55	125		CD8	DL17f
9	54LS138FM	1	8	3	8	TTL	4.0m	.40	2.0	.70	0.0	5.0	27n	50m	55	125		CD8	FP13
10	54LS138J	1	8	3	8	TTL	4.0m	.40	2.0	.70	0.0	5.0	28n	50m	55	125		CD8	DL17j
11	54LS138W	1	8	3	8	TTL	4.0m	.40	2.0	.70	0.0	5.0	28n	50m	55	125		CD8	FP13b
12	74LS138DC	1	8	3	8	TTL	4.0m	.40	2.0	.80	0.0	5.0	27n	50m	0	75		CD8	DL17f
13	74LS138FC	1	8	3	8	TTL	4.0m	.40	2.0	.80	0.0	5.0	27n	50m	0	75		CD8	FP13
14	74LS138PC	1	8	3	8	TTL	4.0m	.40	2.0	.80	0.0	5.0	27n	50m	0	75		CD8	DL52
15	AM25LS138DC	1	8	3	8	TTL	4.0m	.40	2.0	.80	0.0	5.0	27n	50m	0	70		CD8	DL76
16	AM25LS138DM	1	8	3	8	TTL	4.0m	.40	2.0	.70	0.0	5.0	27n	50m	55	125		CD8	DL76
17	AM25LS138FM	1	8	3	8	TTL	4.0m	.40	2.0	.70	0.0	5.0	27n	50m	55	125		CD8	FP18
18	AM25LS138PC	1	8	3	8	TTL	4.0m	.40	2.0	.80	0.0	5.0	27n	50m	0	70		CD8	DL77
19	AM25LS138XC	1	8	3	8	TTL	4.0m	.40	2.0	.80	0.0	5.0	27n	50m	0	70		CD8	CH8g
20	AM25LS138XM	1	8	3	8	TTL	4.0m	.40	2.0	.70	0.0	5.0	27n	50m	55	125		CD8	CH8g
21▼	ITT74LS138N	1	8	3	8	TTL	4.0m	.40	2.0	.80	0.0	5.0	39n	50m	0	70		CD8	DL4c
22	N74LS138B	1	8	3	8	TTL	4.0m	.40	2.0	.80	0.0	5.0	41n	50m	0	70		CD8	DL4a
23	N74LS138F	1	8	3	8	TTL	4.0m	.40	2.0	.80	0.0	5.0	41n	50m	0	70		CD8	DL17h
24	S54LS138F	1	8	3	8	TTL	4.0m	.40	2.0	.70	0.0	5.0	41n	50m	55	125		CD8	DL17h
25	S54LS138W	1	8	3	8	TTL	4.0m	.40	2.0	.70	0.0	5.0	41n	50m	55	125		CD8	FP15
26	SFC4138LSEM	1	8	3	8	TTL	4.0m	.40	2.0	.80	0.0	5.0	37n	55m	55	125		CD8	DL47a
27	SN54LS138J	1	8	3	8	TTL	4.0m	.40	2.0	.70	0.0	5.0	41n	50m	55	125		CD8	DL25
28	SN54LS138W	1	8	3	8	TTL	4.0m	.40	2.0	.70	0.0	5.0	41n	50m	55	125		CD8	Δ004AG
29	SN54LS138X	1	8	3	8	TTL	4.0m	.40	2.0	.80	0.0	5.0	41n	50m	55	125		CD8	CH8g
30	SN74LS138J	1	8	3	8	TTL	4.0m	.40	2.0	.70	0.0	5.0	41n	50m	0	70		CD8	DL25
31	SN74LS138N	1	8	3	8	TTL	4.0m	.40	2.0	.80	0.0	5.0	41n	50m	0	70		CD8	DL26
32	SN74LS138X	1	8	3	8	TTL	4.0m	.40	2.0	.80	0.0	5.0	41n	50m	0	70		CD8	CH8g
33	SFC4138LSE	1	8	3	8	TTL	8.0m	.50	2.0	.80	0.0	5.0	37n	55m	0	70		CD8	DL47a
34	10161	1	8	1	8	ECL	20m		-1.1	-1.4	5.2	0.0	6.0n	295m1	30	85		CD10	DL17h
35	10162F	1	8	1	8	ECL	20m		-1.1	-1.4	5.2	0.0	6.0n	295m1	30	85		CD11	DL17h
36	N74LS138B	1	8	3	8	TTL	20m	50	2.0	.80	0.0	5.0	12n	450m	0	70		CD8	DL17h
37	N74LS138F	1	8	3	8	TTL	20m	50	2.0	.80	0.0	5.0	12n	450m	0	70		CD8	DL17h
38	RSN54H149H	1	8	3	8	TTL	20m	40	2.0	.80	0.0	5.0	20n	300m	55	125		CD4	FP4
39	S54LS138F	1	8	3	8	TTL	20m	50	2.0	.80	0.0	5.0	12n	370m	55	125		CD8	DL17h
40	S54LS138W	1	8	3	8	TTL	20m	50	2.0	.80	0.0	5.0	12n	370m	55	125		CD8	FP15
41	SN54LS138J	1	8	3	8	TTL	20m	50	2.0	.80	0.0	5.0	12n	370m	55	125		CD8	DL25
42	SN54LS138W	1	8	3	8	TTL	20m	50	2.0	.80	0.0	5.0	12n	370m	55	125		CD8	Δ004AG
43	SN54LS138X	1	8	3	8	TTL	20m	50	2.0	.80	0.0	5.0	12n	370m	55	125		CD8	CH8h
44	SN74LS138J	1	8	3	8	TTL	20m	50	2.0	.80	0.0	5.0	12n	370m	0	70		CD8	DL25
45	SN74LS138N	1	8	3	8	TTL	20m	50	2.0	.80	0.0	5.0	12n	370m	0	70		CD8	DL26
46	SN74LS138X	1	8	3	8	TTL	20m	50	2.0	.80	0.0	5.0	12n	370m	0	70		CD8	CH8h
47	SN10161AJ	1	8	3	8	ECL	50m		-1.98	-1.6	5.2	0.0	6.0n	130m1	0	85		CD7	DL25
48	SN10161AN	1	8	3	8	ECL	50m		-1.98	-1.6	5.2	0.0	6.0n	130m1	0	85		CD7	DL26
49▼	HEF4514P	1	16	4	16	CMS	2.0m	50	7.0	3.0	0.0	10	135n	400m	40	85		CD17	DL35c
50▼	HEF4515P	1	16	4	16	CMS	2.0m	50	7.0	3.0	0.0	10	135n	400m	40	85		CD17a	DL35c
51▼	SN54L154J	1	16	4	16	TTL	8.0m	40	2.0	.80	0.0	5.0	72n	125m	55	125		CD1	DL34
52▼	SN74L154J	1	16	4	16	TTL	8.0m	40	2.0	.80	0.0	5.0	72n	140m	0	70		CD1	DL34
53▼	SN74L154N	1	16	4	16	TTL	8.0m	40	2.0	.80	0.0	5.0	72n	140m	0	70		CD1	DL35
54	M53354P	1	16	4	16	TTL	16m	40	2.4	40%	0.0	5.0	36n	280m	0	75		CD1	DL43
55	MIC54154J	1	16	4	16	TTL	16m	40	2.0	.80	0.0	5.0	36n	245m	55	125		CD1	DL34b
56	MIC74154J	1	16	4	16	TTL	16m	40	2.0	.80	0.0	5.0	36n	280m	0	75		CD1	DL34b
57	MIC74155J	1	16	4	16	TTL	16m	40	2.0	.80	0.0	5.0	32n	200m	0	75		CD2	DL17n
58	N74154F	1	16	4	16	TTL	16m	40	2.0	.80	0.0	5.0	36n	280m	0	70		CD1	DL38a
59	N74154N	1	16	4	16	TTL	16m	40	2.0	.80	0.0	5.0	36n	280m	0	70		CD1	DL20a
60	S54154F	1	16	4	16	TTL	16m	40	2.0	.80	0.0	5.0	36n	245m	55	125		CD1	DL38a
61	S54154O	1	16	4	16	TTL	16m	40	2.0	.80	0.0	5.0	36n	245m	55	125		CD1	FP16
62	SFC4154E	1	16	4	16	TTL	16m	40	2.0	.80	0.0	5.0	36n	280m	0	70		CD1	DL50
63	SFC4154EM	1	16	4	16	TTL	16m	40	2.0	.80	0.0	5.0	36n	245m	55	125		CD1	DL50
64	SFC4154ET	1	16	4	16	TTL	16m	40	2.0	.80	0.0	5.0	36n	280m	25	85		CD1	DL50
65	SFC4154JM	1	16	4	16	TTL	16m	40	2.0	.80	0.0	5.0	36n	245m	55	125		CD1	DL50
66	SFC4154KM	1	16	4	16	TTL	16m	40	2.0	.80	0.0	5.0	36n	245m	55	125		CD1	DL50
67	SN29311J	1	16	4	16	TTL	16m	40	2.0	.80	0.0	5.0		170m	0	75		CD1	DL34
68	SN29311N	1	16	4	16	TTL	16m	40	2.0	.80	0.0	5.0		170m	0	75		CD1	DL35
69	SN39311J	1	16	4	16	TTL	16m	40	2.0	.80	0.0	5.0		170m	55	125		CD1	DL34
70	SN54154J	1	16	4	16	TTL	16m	40	2.0	.80	0.0	5.0	36n	245m	55	125		CD1	DL34
71	SN54154W	1	16	4	16	TTL	16m	40	2.0	.80	0.0	5.0	36n	245m	55	125		CD1	Δ019AA
72	SN54159J	1	16	4	16	TTL	16m	40	2.0	.80	0.0	5.0	36n	280m	55	125		CD1	DL34
73	SN54159W	1	16	4	16	TTL	16m	40	2.0	.80	0.0	5.0	36n	280m	55	125		CD1	Δ019AA
74	SN74154J	1	16	4	16	TTL	16m	40	2.0	.80	0.0	5.0	36n	280m	0	70		CD1	DL34
75	SN74154N	1	16	4	16	TTL	16m	40	2.0	.80	0.0	5.0	36n	280m	0	70		CD1	DL35
76	SN74159J	1	16	4	16	TTL	16m	40	2.0	.80	0.0	5.0	36n	280m	0	70		CD1	DL34
77	SN74159N	1	16	4	16	TTL	16m	40	2.0	.80	0.0	5.0	36n	280m	0	70		CD1	DL35
78	uPB74154C	1	16	4	16	TTL	16m	40	2.0	.80	0.0	5.0	36n	280m	0	70		CD1	DL93
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18. DIGITAL DEMULTIPLEXERS/DECODERS

IN ORDER OF: (1)CKTS/DEV (2)OUTPUT CHAN/CKT. (3)MIN.OUTPUT SINK CURR. & (4)TYPE NUMBER

LINE No.	TYPE NUMBER	DEMULTIPLEX		DECODES		T E C H N I C A L	3 MIN. OUTPUT SINK CURRENT		INPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. PROP. DELAY tpd (s)	MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS	
		1 CKTS PER DEV.	2 No. OUTPUT CHAN/CKT.	FROM	TO		I (A)	@ V _o (V)	HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)			(-) (°C)	(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO
1	54LS255W	2	4	2	4	TTL	4.0m	40	2.0	.70 _s	0.0	5.0	26n	85m	55	125	CD2	FP13b
2	74LS139DC	2	4	2	4	TTL	4.0m	40	2.0	.80	0.0	5.0	27n	55m	0	75	CD9	DL17f
3	74LS139FC	2	4	2	4	TTL	4.0m	40	2.0	.80	0.0	5.0	27n	55m	0	75	CD9	FP13
4	74LS139PC	2	4	2	4	TTL	4.0m	40	2.0	.80	0.0	5.0	27n	55m	0	75	CD9	DL52
5	74LS155DC	2	4	2	4	TTL	4.0m	40	2.0	.80	0.0	5.0	28n	50m	0	75	CD2	DL17f
6	74LS155FC	2	4	2	4	TTL	4.0m	40	2.0	.80	0.0	5.0	28n	50m	0	75	CD2	FP13
7	74LS155PC	2	4	2	4	TTL	4.0m	40	2.0	.80	0.0	5.0	28n	50m	0	75	CD2	DL52
8	74LS156DC	2	4	2	4	TTL	4.0m	40	2.0	.80	0.0	5.0	34n	50m	0	75	CD2	DL17f
9	74LS156FC	2	4	2	4	TTL	4.0m	40	2.0	.80	0.0	5.0	34n	50m	0	75	CD2	FP13
10	74LS156PC	2	4	2	4	TTL	4.0m	40	2.0	.80	0.0	5.0	34n	50m	0	75	CD2	DL52
11	AM25LS139DC	2	4	2	4	TTL	4.0m	40	2.0	.80	0.0	5.0	21n	55m	0	75	CD9	DL76
12	AM25LS139DM	2	4	2	4	TTL	4.0m	40	2.0	.70	0.0	5.0	21n	55m	55	125	CD9	DL76
13	AM25LS139FM	2	4	2	4	TTL	4.0m	40	2.0	.70	0.0	5.0	21n	55m	55	125	CD9	FP18
14	AM25LS139PC	2	4	2	4	TTL	4.0m	40	2.0	.80	0.0	5.0	21n	55m	0	70	CD9	DL77
15	AM25LS139XC	2	4	2	4	TTL	4.0m	40	2.0	.80	0.0	5.0	21n	55m	0	70	CD9	CH8g
16	AM25LS139XM	2	4	2	4	TTL	4.0m	40	2.0	.70	0.0	5.0	21n	55m	55	125	CD9	CH8g
17	ITT74LS139N	2	4	2	4	TTL	4.0m	40	2.0	.80	0.0	5.0	38n	55m	0	70	CD6	DL4c
18	N74LS139B	2	4	2	4	TTL	4.0m	40	2.0	.80	0.0	5.0	38n	55m	0	70	CD6	DL4a
19	N74LS139F	2	4	2	4	TTL	4.0m	40	2.0	.80	0.0	5.0	38n	55m	0	70	CD6	DL17h
20	S54LS139F	2	4	2	4	TTL	4.0m	40	2.0	.70	0.0	5.0	38n	55m	55	125	CD6	DL17h
21	S54LS139W	2	4	2	4	TTL	4.0m	40	2.0	.70	0.0	5.0	38n	55m	55	125	CD6	FP15
22#	SFC4139LSEM	2	4	3	4	TTL	4.0m	40	2.0	.80	0.0	5.0	37n	55m	55	125	CD9	DL47a
23#	SFC4155LSEM	2	4	2	4	TTL	4.0m	40	2.0	.80	0.0	5.0	30n	50m	55	125	CD2	DL47a
24#	SN54LS139J	2	4	2	4	TTL	4.0m	40	2.0	.70	0.0	5.0	38n	55m	55	125	CD9	DL25
25#	SN54LS139W	2	4	2	4	TTL	4.0m	40	2.0	.70	0.0	5.0	38n	55m	55	125	CD9	Δ004AG
26	SN54LS139X	2	4	2	4	TTL	4.0m	40	2.0	.70	0.0	5.0	38n	55m	55	125	CD9	CH8g
27	SN54LS155J	2	4	2	4	TTL	4.0m	40	2.0	.70	0.0	5.0	30n	50m	55	125	CD2	DL25
28	SN54LS155W	2	4	2	4	TTL	4.0m	40	2.0	.70	0.0	5.0	30n	50m	55	125	CD2	Δ004AG
29	SN54LS156J	2	4	2	4	TTL	4.0m	40	2.0	.70	0.0	5.0	51n	50m	55	125	CD2	DL25
30	SN54LS156W	2	4	2	4	TTL	4.0m	40	2.0	.70	0.0	5.0	51n	50m	55	125	CD2	Δ004AG
31#	SN54S139J	2	4	2	4	TTL	4.0m	40	2.0	.70	0.0	5.0	38n	55m	55	125	CD9	DL25
32#	SN54S139W	2	4	2	4	TTL	4.0m	40	2.0	.70	0.0	5.0	38n	55m	55	125	CD9	Δ004AG
33	SN54S139X	2	4	2	4	TTL	4.0m	40	2.0	.70	0.0	5.0	38n	55m	55	125	CD9	CH8i
34#	SN74LS139J	2	4	2	4	TTL	4.0m	40	2.0	.80	0.0	5.0	38n	55m	0	70	CD9	DL25
35#	SN74LS139N	2	4	2	4	TTL	4.0m	40	2.0	.80	0.0	5.0	38n	55m	0	70	CD9	DL26
36	SN74LS139X	2	4	2	4	TTL	4.0m	40	2.0	.80	0.0	5.0	38n	55m	0	70	CD9	CH8g
37#	SN74S139J	2	4	2	4	TTL	4.0m	40	2.0	.80	0.0	5.0	38n	55m	0	70	CD9	DL25
38#	SN74S139N	2	4	2	4	TTL	4.0m	40	2.0	.80	0.0	5.0	38n	55m	0	70	CD9	DL26
39	SN74S139X	2	4	2	4	TTL	4.0m	40	2.0	.80	0.0	5.0	38n	55m	0	70	CD9	CH8i
40#	SFC4139LSE	2	4	3	4	TTL	8.0m	50	2.0	.80	0.0	5.0	37n	55m	0	70	CD9	DL47a
41#	SFC4155LSE	2	4	2	4	TTL	8.0m	50	2.0	.80	0.0	5.0	30n	50m	0	70	CD2	DL47a
42	SN74LS155J	2	4	2	4	TTL	8.0m	50	2.0	.80	0.0	5.0	30n	50m	0	70	CD2	DL25
43	SN74LS155N	2	4	2	4	TTL	8.0m	50	2.0	.80	0.0	5.0	30n	50m	0	70	CD2	DL26
44	SN74LS156J	2	4	2	4	TTL	8.0m	50	2.0	.80	0.0	5.0	51n	50m	0	70	CD2	DL25
45	SN74LS156N	2	4	2	4	TTL	8.0m	50	2.0	.80	0.0	5.0	51n	50m	0	70	CD2	DL26
46#	FLY151-74155	2	4	2	4	TTL	16m	40	2.0	.80	0.0	5.0	32n	200m	0	70	CD2	DL97
47#	FLY155-84155	2	4	2	4	TTL	16m	40	2.0	.80	0.0	5.0	32n	200m	25	85	CD2	DL97
48#	FLY156-74156	2	4	2	4	TTL	16m	40	2.0	.80	0.0	5.0	34n	200m	0	70	CD2	DL97
49#	FLY155-84156	2	4	2	4	TTL	16m	40	2.0	.80	0.0	5.0	34n	200m	25	85	CD2	DL97
50#	M53355F	2	4	2	4	TTL	16m	40	2.4	40%	0.0	5.0	32n	200m	0	75	CD2	DL30a
51#	M53356P	2	4	2	4	TTL	16m	40	2.4	40%	0.0	5.0	34n	200m	0	75	CD2	DL30a
52#	MC54155F	2	4	2	4	TTL	16m	40	2.4†	40†	0.0	5.0	32n	125m†	55	125	CD16	FP11
53	MC54155L	2	4	2	4	TTL	16m	40	2.4†	40†	0.0	5.0	32n	125m†	55	125	CD16	DL17b
54	MC54156F	2	4	2	4	TTL	16m	40	2.4†	40†	0.0	5.0	34n	125m†	55	125	CD16	FP11
55	MC54156L	2	4	2	4	TTL	16m	40	2.4†	40†	0.0	5.0	34n	125m†	55	125	CD16	DL17b
56	MC74155F	2	4	2	4	TTL	16m	40	2.4†	40†	0.0	5.0	32n	125m†	0	70	CD16	FP11
57	MC74155L	2	4	2	4	TTL	16m	40	2.4†	40†	0.0	5.0	32n	125m†	0	70	CD16	DL17b
58	MC74156F	2	4	2	4	TTL	16m	40	2.4†	40†	0.0	5.0	34n	125m†	0	70	CD16	FP11
59	MC74156L	2	4	2	4	TTL	16m	40	2.4†	40†	0.0	5.0	34n	125m†	0	70	CD16	DL17b
60	MC74158L	2	4	2	4	TTL	16m	40	2.4†	40†	0.0	5.0	34n	125m†	0	70	CD16	DL30
61	MC74156P	2	4	2	4	TTL	16m	40	2.4†	40†	0.0	5.0	34n	125m†	0	70	CD16	DL30
62#	MIC54155J	2	4	2	4	TTL	16m	40	2.0	.80	0.0	5.0	32n	175m	55	125	CD2	DL17n
63#	MIC54156J	2	4	2	4	TTL	16m	40	2.0	.80	0.0	5.0	32n	175m	55	125	CD2	DL17n
64#	MIC74155N	2	4	2	4	TTL	16m	40	2.0	.80	0.0	5.0	32n	200m	0	75	CD2	DL96b
65#	MIC74156J	2	4	2	4	TTL	16m	40	2.0	.80	0.0	5.0	34n	200m	0	75	CD2	DL17n
66#	MIC74156N	2	4	2	4	TTL	16m	40	2.0	.80	0.0	5.0	34n	200m	0	75	CD2	DL96b
67	N74155B	2	4	2	4	TTL	16m	40	2.0	.80	0.0	5.0	32n	200m	0	70	CD2	DL4a
68	N74155F	2	4	2	4	TTL	16m	40	2.0	.80	0.0	5.0	32n	200m	0	70	CD2	DL17h
69	N74156B	2	4	2	4	TTL	16m	40	2.0	.80	0.0	5.0	32n	200m	0	70	CD2	DL4a
70	N74156F	2	4	2	4	TTL	16m	40	2.0	.80	0.0	5.0	34n	200m	0	70	CD2	DL17h
71	S54155F	2	4	2	4	TTL	16m	40	2.0	.80	0.0	5.0	32n	175m	55	125	CD2	DL17h
72	S54155W	2	4	2	4	TTL	16m	40	2.0	.80	0.0	5.0	32n	175m	55	125	CD2	FP15
73	S54156F	2	4	2	4	TTL	16m	40	2.0	.80	0.0	5.0	34n	175m	55	125	CD2	DL17h
74	S54156W	2	4	2	4	TTL	16m	40	2.0	.80	0.0	5.0	34n	175m	55	125	CD2	FP15
75#	SFC4155E	2	4	2	4	TTL	16m	40	2.0	.80	0.0	5.0	32n	200m	0	70	CD2	DL47a
76#	SFC4155EM	2	4	2	4	TTL	16m	40	2.0	.80	0.0	5.0	32n	175m	55	125	CD2	DL47a
77#	SFC4155ET	2	4	2	4	TTL	16m	40	2.0	.80	0.0	5.0	32n	200m	25	85	CD2	DL47a
78#	SFC4155JM	2	4	2	4	TTL	16m	40	2.0	.80	0.0	5.0	32n	175m	55	125	CD2	DL47a
79#	SFC4155KM	2	4	2	4	TTL	16m	40	2.0	.80	0.0	5.0	32n	175m	55	125	CD2	DL47a
80#	SFC4156E	2	4	2	4	TTL	16m	40	2.0	.80	0.0	5.0	34n	200m	0	70	CD2	DL47a
81#	SFC4156EM	2	4	2	4	TTL	16m	40	2									

20. LINE RECEIVERS

IN ORDER OF: (1) INPUT MODE (2) CKTS/DEVICE
(3) HIGH INPUT THRESHOLD VOLT.& (4) TYPE No.

LINE No.	TYPE NUMBER	INPUT MODE	2 CKTS PER DEV.	THRESHOLD VOLT.-INPUT		MAX. INPUT RESIS (Ω)	MIN. OUTPUT SINK CURRENT		T E C H N	OUTPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. PROP. DELAY tpd (s)	MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS	
				3 HIGH (V)	LOW (V)		I (A)	@ Vo (V)		HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)			(-) (°C)	(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO
1#	SP722BE	D	1	.009	0.0		16m	.40	TTL	2.4	.40	5.0	5.0	20nt	145m	0	70	DA28	DL59
2#	SP722BF	D	1	.009	0.0		16m	.40	TTL	2.4	.40	5.0	5.0	20nt	145m	0	70	DA28	FP8
3#	SP722BT	D	1	.009	0.0		16m	.40	TTL	2.4	.40	5.0	5.0	20nt	145m	0	70	DA28	CN8
4#	SP723BE	D	1	.014	.005		16m	.40	TTL	2.4	.40	5.0	5.0	20nt	155m	0	70	DA29	DL59
5#	SP723BF	D	1	.014	.005		16m	.40	TTL	2.4	.40	5.0	5.0	20nt	155m	0	70	DA29	FP8
6#	ZN1005E	D	1	.02*	.35		2.5m	.40	TTL	3.0	.40	9.0	4.5	19n	250 t	0	70	DA44	DL45e
7#	MB428	D	2						TTL	2.4	.40	0.0	5.0		150m†	0	70	DA45	DL17r
8#	MB428M	D	2						TTL	2.4	.40	0.0	5.0		150m†	0	70	DA45	DL17q
9#	MB429	D	2						TTL	2.4	.40	0.0	5.0		150m†	0	70	DA45	DL17r
10#	MB429M	D	2						TTL	2.4	.40	0.0	5.0		150m†	0	70	DA45	DL17q
11	DS3604J	D	2	.01	-.03		16m	.40	TTL	2.4	.40s	5.0	5.0	35n	275m	0	70	DA37	DL16b
12	DS3604N	D	2	.01	-.03		16m	.40	TTL	2.4	.40s	5.0	5.0	35n	275m	0	70	DA37	DL54
13	DS75207J	D	2	.01	-.03		16m	.40	TTL	2.4	.40s	5.0	5.0	35n	225m	0	70	DA5	DL16b
14	DS75207N	D	2	.01	-.03		16m	.40	TTL	2.4	.40s	5.0	5.0	35n	225m	0	70	DA5	DL54
15	DS75208J	D	2	.01	-.03		16m	.40	TTL	2.4	.40s	5.0	5.0	35n	225m	0	70	DA5	DL16b
16	DS75208N	D	2	.01	-.03		16m	.40	TTL	2.4	.40s	5.0	5.0	35n	225m	0	70	DA5	DL54
17#	SP724BE	D	2	.014	.005		16m	.40	TTL	2.4	.40	5.0	5.0	20nt	230m	0	70	DA30	DL59
18#	SP724BF	D	2	.014	.005		16m	.40	TTL	2.4	.40	5.0	5.0	20nt	230m	0	70	DA30	FP9
19	DS1603J	D	2	.10	-.10		16m	.40	TTL	2.4	.40	5.0	5.0	25n	275m	55	125	DA37	DL16b
20	DS1603W	D	2	.10	-.10		16m	.40	TTL	2.4	.40	5.0	5.0	25n	275m	55	125	DA37	FP6
21	DS3603J	D	2	.10	-.10		16m	.40	TTL	2.4	.40	5.0	5.0	25n	275m	0	70	DA37	DL16b
22	DS3603N	D	2	.10	-.10		16m	.40	TTL	2.4	.40	5.0	5.0	25n	275m	0	70	DA37	DL54
23	DS55107J	D	2	.10	-.10		16m	.40	TTL	2.4	.40	5.0	5.0	25n	225m	55	125	DA5	DL16b
24	DS55107W	D	2	.10	-.10		16m	.40	TTL	2.4	.40	5.0	5.0	25n	225m	55	125	DA5	FP6
25	DS55108J	D	2	.10	-.10		16m	.40	TTL	2.4	.40	5.0	5.0	25n	225m	55	125	DA5	DL16b
26	DS55108W	D	2	.10	-.10		16m	.40	TTL	2.4	.40	5.0	5.0	25n	225m	55	125	DA5	FP6
27	DS75107J	D	2	.10	-.10		16m	.40	TTL	2.4	.40	5.0	5.0	25n	225m	0	70	DA5	DL16b
28	DS75107N	D	2	.10	-.10		16m	.40	TTL	2.4	.40	5.0	5.0	25n	225m	0	70	DA5	DL54
29	DS75108J	D	2	.10	-.10		16m	.40	TTL	2.4	.40	5.0	5.0	25n	225m	0	70	DA5	DL16b
30	DS75108N	D	2	.10	-.10		16m	.40	TTL	2.4	.40	5.0	5.0	25n	225m	0	70	DA5	DL54
31	DS78LS20J	D	2	.20	-.20		4.0m	.40	TTL	2.5	.40	0.0	5.0	30nt	22m†	55	125	DA4	DL16b
32	DS78LS20W	D	2	.20	-.20		4.0m	.40	TTL	2.5	.40	0.0	5.0	30nt	22m†	55	125	DA4	FP6
33	DS88LS20J	D	2	.20	-.20		4.0m	.40	TTL	2.5	.40	0.0	5.0	30nt	22m†	0	70	DA4	DL16b
34	DS88LS20N	D	2	.20	-.20		4.0m	.40	TTL	2.5	.40	0.0	5.0	30nt	22m†	0	70	DA4	DL54
35	9620DC	D	2	.50Δ	.12		15m	.50	TTL	2.8	.50	0.0	12	75n	169m	0	70	DA31	DL16c
36	9620DM	D	2	.50Δ	.12		15m	.45	TTL	2.8	.45	0.0	12	50n	161m	55	125	DA31	DL16c
37	9620FM	D	2	.50Δ	.12		15m	.45	TTL	2.8	.45	0.0	12	50n	161m	55	125	DA31	TO86
38	9620PC	D	2	.50Δ	.12		15m	.50	TTL	2.8	.50	0.0	12	75n	169m	0	70	DA31	DL68
39	DS7820AJ	D	2	.50	-.50	2.5k†	16m	.40	TTL	2.5	.40	0.0	5.0	45n	70m	55	125	DA4	DL16b
40	DS7820AW	D	2	.50	-.50	2.5k†	16m	.40	TTL	2.5	.40	0.0	5.0	45n	70m	55	125	DA4	FP6
41	DS7820J	D	2	.50	-.50	2.5k†	3.5m	.40	TTL	2.5	.40	0.0	5.0	150nt	75m	55	125	DA4	DL16b
42	DS7820W	D	2	.50	-.50	2.5k†	3.5m	.40	TTL	2.5	.40	0.0	5.0	150nt	75m	55	125	DA4	FP6
43	DS8820AJ	D	2	.50	-.50	2.5k†	16m	.40	TTL	2.5	.40	0.0	5.0	45n	70m	0	70	DA4	DL16b
44	DS8820AN	D	2	.50	-.50	2.5k†	16m	.40	TTL	2.5	.40	0.0	5.0	45n	70m	0	70	DA4	DL54
45	DS8820AW	D	2	.50	-.50	2.5k†	16m	.40	TTL	2.5	.40	0.0	5.0	45n	70m	0	70	DA4	FP6
46	DS8820J	D	2	.50	-.50	2.5k†	3.5m	.40	TTL	2.5	.40	0.0	5.0	150nt	75m	0	70	DA4	DL16b
47	DS8820N	D	2	.50	-.50	2.5k†	3.5m	.40	TTL	2.5	.40	0.0	5.0	150nt	75m	0	70	DA4	DL54
48	DS8820W	D	2	.50	-.50	2.5k†	3.5m	.40	TTL	2.5	.40	0.0	5.0	150nt	75m	0	70	DA4	FP6
49#	ITT9615-1J	D	2	.50	-.50	167	15m	.40	DTL	2.4	.40	0.0	5.0	50n‡	250m	55	125	DA43	DL4d
50#	ITT9615-5J	D	2	.50	-.50	179	15m	.45	DTL	2.4	.40	0.0	5.0	75n‡	250m	0	75	DA43	DL4d
51	JANM38510/10404BEA	D	2	.50Δ	-.50*	167	16m	.40	TTL	2.4	.40	0.0	5.0	75n	250m	55	125	DA43	DL99
52	JANM38510/10404BEB	D	2	.50Δ	-.50*	167	16m	.40	TTL	2.4	.40	0.0	5.0	75n	250m	55	125	DA43	DL99
53	JANM38510/10404BEC	D	2	.50Δ	-.50*	167	16m	.40	TTL	2.4	.40	0.0	5.0	75n	250m	55	125	DA43	DL99
54	JANM38510/10404BFA	D	2	.50Δ	-.50*	167	16m	.40	TTL	2.4	.40	0.0	5.0	75n	250m	55	125	DA43	FP28
55	JANM38510/10404BFB	D	2	.50Δ	-.50*	167	16m	.40	TTL	2.4	.40	0.0	5.0	75n	250m	55	125	DA43	FP28
56	JANM38510/10404BFC	D	2	.50Δ	-.50*	167	16m	.40	TTL	2.4	.40	0.0	5.0	75n	250m	55	125	DA43	FP28
57	JANM38510/10404CEA	D	2	.50Δ	-.50*	167	16m	.40	TTL	2.4	.40	0.0	5.0	75n	250m	55	125	DA43	DL99
58	JANM38510/10404CEB	D	2	.50Δ	-.50*	167	16m	.40	TTL	2.4	.40	0.0	5.0	75n	250m	55	125	DA43	DL99
59	JANM38510/10404CEC	D	2	.50Δ	-.50*	167	16m	.40	TTL	2.4	.40	0.0	5.0	75n	250m	55	125	DA43	DL99
60	JANM38510/10404CFA	D	2	.50Δ	-.50*	167	16m	.40	TTL	2.4	.40	0.0	5.0	75n	250m	55	125	DA43	FP28
61	JANM38510/10404CFB	D	2	.50Δ	-.50*	167	16m	.40	TTL	2.4	.40	0.0	5.0	75n	250m	55	125	DA43	FP28
62	JANM38510/10404CFC	D	2	.50Δ	-.50*	167	16m	.40	TTL	2.4	.40	0.0	5.0	75n	250m	55	125	DA43	FP28
63	SN55115J	D	2	.50Δ	-.50Δ	167	15m	.40	TTL	2.4	.40	0.0	5.0	50n	250m	55	125	DA3	DL25
64	SN55182J	D	2	.50Δ	-.50Δ	5.0k†	16m	.40	TTL	2.5	.40	0.0	5.0	45n	70m	55	125	DA4	DL23
65	SN75115J	D	2	.50Δ	-.50Δ	179	15m	.45	TTL	2.4	.45	0.0	5.0	75n	250m	0	70	DA3	DL25
66	SN75115N	D	2	.50Δ	-.50Δ	179	15m	.45	TTL	2.4	.45	0.0	5.0	75n	250m	0	70	DA3	DL26
67	SN75182J	D	2	.50Δ	-.50Δ	5.0k†	16m	.40	TTL	2.5	.40	0.0	5.0	45n	70m	0	70	DA4	DL23
68	SN75182N	D	2	.50Δ	-.50Δ	5.0k†	16m	.40	TTL	2.5	.40	0.0	5.0	45n	70m	0	70	DA4	DL24
69	9627DC	D	2	.60Δ	-.60*	7.0k	6.4m	.40	TTL	2.4	.40	12	12	250n	408m	0	70	DA35	DL17f
70	9627DM	D	2	.60Δ	-.60*	7.0k	6.4m	.40	TTL	2.4	.40	12	12	250n	408m	55	125	DA35	DL17f
71	9627FM	D	2	.60Δ	-.60*	7.0k	6.4m	.40	TTL	2.4	.40	12	12	250n	408m	55	125	DA35	FP13
72	9627PC	D	2	.60Δ	-.60*	7.0k	6.4m	.40	TTL	2.4	.40	12	12	250n	408m	0	70	DA35	DL52
73	9613HC	D	2	1.0*	-.10Δ	4.2k†	16m	.40	TTL	2.4	.40	0.0	5.0	40n	250m	0	70	DA39	TO99
74	9613HM	D	2	1.0*	-.10Δ	4.2k†	16m	.40	TTL	2.4	.40	0.0	5.0	40n	250m	55	125	DA39	TO99
75	9613RC	D	2	1.0*	-.10Δ	4.2k†	16m	.40	TTL	2.4	.40	0.0	5.0	40n	250m	0	70	DA39	DL27a
76	9613RM	D	2	1.0*	-.10Δ	4.2k†	16m	.40	TTL	2.4	.40	0.0	5.0	40n	250m	55	125	DA39	DL27a
77	9613TC	D	2	1.0*	-.10Δ	4.2k†													

20. LINE RECEIVERS

IN ORDER OF: (1)INPUT MODE (2)CKTS/DEVICE (3)HIGH INPUT THRESHOLD VOLT.& (4)TYPE No.

Table with columns: LINE No., TYPE, INPUT, CKTS PER DEV., THRESHOLD VOLT.-INPUT, MAX. INPUT RESIS, MIN. OUTPUT SINK CURRENT, T E C H N, OUTPUT LEVEL, LOGIC, RATED PWR. SUPPLY SPAN, MAX. PROP. DELAY, MAX. OPERATE PWR. DISS., OPER. TEMP., LOGIC DWG. No., DRAWINGS DWG. No. Includes rows 1-96 with various part numbers and specifications.

20. LINE RECEIVERS

IN ORDER OF: (1) INPUT MODE (2) CKTS/DEVICE
(3) HIGH INPUT THRESHOLD VOLT. & (4) TYPE No.

LINE No.	TYPE NUMBER	INPUT MODE	CKTS PER DEV.	THRESHOLD VOLT. INPUT		MAX. INPUT RESIS (Ω)	MIN. OUTPUT SINK CURRENT		T E C H N I C A N	OUTPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. PROP. DELAY tpd (s)	MAX. OPERATE PWR. DISS. (W)	OPER. TEMP. (°C)	DRAWINGS		
				HIGH (V)	LOW (V)		I (A)	@ V _o		HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)				LOGIC DWG. No.	OUTLINE DWG. Δ=MO	
1	GXB10114	D	3	-1.1	-1.4		50m		ECL	-88†	-1.7†	5.2	0.0	2.0n†	145m†	0	75	DA58	DL17k
2	GXB10116	D	3	-1.1	-1.4		50m		ECL	-88†	-1.7†	5.2	0.0	2.0n†	85m†	0	75	DA59	DL17k
3	MC10114L	D	3	-1.4	-1.1*		23m	-.81	ECL	-96	-1.6	5.2	0.0	4.0n	182m	30	85	DA13	DL17b
4	MC10114P	D	3	-1.4	-1.1*		23m	-.81	ECL	-96	-1.6	5.2	0.0	4.0n	182m	30	85	DA13	DL30
5	MC10116L	D	3	-1.4	-1.1*		23m	-.81	ECL	-96	-1.6	5.2	0.0	2.9n	109m	30	85	DA19	DL17b
6	MC10116P	D	3	-1.4	-1.1*		23m	-.81	ECL	-96	-1.6	5.2	0.0	2.9n	109m	30	85	DA19	DL30
7	MC10216L	D	3	-1.4	-1.1*		23m	-.81	ECL	-96	-1.6	5.2	0.0	2.5n	130m	30	85	DA19	DL17b
8	MC10216P	D	3	-1.4	-1.1*		23m	-.81	ECL	-96	-1.6	5.2	0.0	2.5n	130m	30	85	DA19	DL30
9	MC10514F	D	3	-1.4	-1.1*		12m	-.78	ECL	-93	-1.6	5.2	0.0	4.0n	182m	55	125	DA13	FP11
10	MC10514L	D	3	-1.4	-1.1*		12m	-.78	ECL	-93	-1.6	5.2	0.0	4.0n	182m	55	125	DA13	DL17b
11	MC10516F	D	3	-1.4	-1.1*		12m	-.78	ECL	-93	-1.6	5.2	0.0	2.9n	109m	55	125	DA20	FP11
12	MC10516L	D	3	-1.4	-1.1*		12m	-.78	ECL	-93	-1.6	5.2	0.0	2.9n	109m	55	125	DA20	DL17b
13	MC10616F	D	3	-1.4	-1.1*		12m	-.78	ECL	-93	-1.6	5.2	0.0	2.5n	130m	55	125	DA20	DL30
14	MC10616L	D	3	-1.4	-1.1*		12m	-.78	ECL	-93	-1.6	5.2	0.0	2.5n	130m	55	125	DA20	DL17b
15	GXB10115	D	4	.18	-.18	50 Ω	50m		ECL	-96	-1.6	5.2	0.0	2.0n†	130m	0	75	DA17	DL17k
16	DS1689J	D	4	20	-20		4.0m	.40	TTL	2.5	.40	0.0	5.0	30n†	22m†	55	125	DA23	DL17d
17	DS1690J	D	4	20	-20		4.0m	.40	TTL	2.5	.40	0.0	5.0	30n†	22m†	55	125	DA24	DL57
18	DS3689J	D	4	20	-20		4.0m	.40	TTL	2.5	.40	0.0	5.0	30n†	22m†	0	70	DA23	DL17d
19	DS3689N	D	4	20	-20		4.0m	.40	TTL	2.5	.40	0.0	5.0	30n†	22m†	0	70	DA23	DL56
20	DS3690J	D	4	20	-20		4.0m	.40	TTL	2.5	.40	0.0	5.0	30n†	22m†	0	70	DA24	DL57
21	DS3690N	D	4	20	-20		4.0m	.40	TTL	2.5	.40	0.0	5.0	30n†	22m†	0	70	DA24	DL58
22	MC3486L	D	4	20Δ	-20Δ		50m		TTL	2.7	.50*	0.0	5.0	25n	446m	0	70	DA51	DL17b
23	MC3486P	D	4	20Δ	-20Δ		50m		TTL	2.7	.50*	0.0	5.0	25n	446m	0	70	DA51	DL30
24	SN10115J	D	4	-.98	-.16		50m		ECL	-96	-1.6	5.2	0.0	2.9n	93m†	0	85	DA17	DL25
25	SN10115N	D	4	-.98	-.16		50m		ECL	-96	-1.6	5.2	0.0	2.9n	93m†	0	85	DA17	DL26
26	8T110F	D	4	2.0	.80		20m	.50	TTL	2.4	.40	0.0	5.0	30n		0	75	DA56	DL17h
27	8T111F	D	4	2.0	.80		20m	.50	TTL	2.4	.40	0.0	5.0	30n		0	75	DA56a	DL17h
28	DS3650J	D	4	5.0Δ	-5.0*		16m	.40	TTL	2.4	.40	5.0	5.0	9.0n†	450m	0	70	DA25	DL17d
29	DS3650N	D	4	5.0Δ	-5.0*		16m	.40	TTL	2.4	.40	5.0	5.0	9.0n†	450m	0	70	DA25	DL56
30	DS3652J	D	4	5.0Δ	-5.0*		16m	.40	TTL	2.4	.40	5.0	5.0	10n†	450m	0	70	DA25	DL17d
31	DS3652N	D	4	5.0Δ	-5.0*		16m	.40	TTL	2.4	.40	5.0	5.0	10n†	450m	0	70	DA25	DL56
32	MC3450L	D	4	5.0Δ	-5.0*		16m	.40	TTL	2.4	.40	5.0	5.0	29n	300m	0	70	DA34	DL17b
33	MC3450P	D	4	5.0Δ	-5.0*		16m	.40	TTL	2.4	.40	5.0	5.0	29n	300m	0	70	DA34	DL30
34	MC3452L	D	4	5.0Δ	-5.0*		16m	.40	TTL	2.4	.40	5.0	5.0	25n	300m	0	70	DA34	DL17b
35	MC3452P	D	4	5.0Δ	-5.0*		16m	.40	TTL	2.4	.40	5.0	5.0	25n	300m	0	70	DA34	DL30
36	MC1020P	D	4	-1.0*	-1.3		2.5m	-.70	ECL	-85	-1.5	5.2	0.0	7.0n	115m†	0	75	DA48	T0116
37	MC1220F	D	4	-1.0*	-1.3		2.5m	-.70	ECL	-85	-1.5	5.2	0.0	7.0n	115m†	55	125	DA48	T086
38	MC1220L	D	4	-1.0*	-1.3		2.5m	-.70	ECL	-85	-1.5	5.2	0.0	7.0n	115m†	55	125	DA48	T0116
39	MC1692F	D	4	-1.0*	-1.4				ECL	-96	-1.6	5.2	0.0	1.7n	220m†	30	85	DA50a	FP11
40	MC1692L	D	4	-1.0*	-1.4				ECL	-96	-1.6	5.2	0.0	1.7n	220m†	30	85	DA50	DL17b
41	MC10115L	D	4	-1.4	-1.1*		23m	-.81	ECL	-96	-1.6	5.2	0.0	2.9n	135m	30	85	DA14	DL17b
42	MC10115P	D	4	-1.4	-1.1*		23m	-.81	ECL	-96	-1.6	5.2	0.0	2.9n	135m	30	85	DA14	DL30
43	MC10515F	D	4	-1.4	-1.1*		12m	-.78	ECL	-93	-1.6	5.2	0.0	2.9n	135m	55	125	DA14	FP11
44	MC10515L	D	4	-1.4	-1.1*		12m	-.78	ECL	-93	-1.6	5.2	0.0	2.9n	135m	55	125	DA14	DL17b
45	5551	D	8	50	-50		16m	.40	TTL	2.5	.40	0.0	5.0	150n	600m	0	70	DA47	PC12
46	5551A	D	8	50	-50		3.2m	.40	TTL	2.5	.40	0.0	5.0	150n	600m	0	70	DA47	PC12
47	5551B	D	8	50	-50		3.2m	.40	TTL	2.5	.40	0.0	5.0	150n	600m	0	70	DA47	PC12
48	5551C	D	8	50	-50		3.2m	.40	TTL	2.5	.40	0.0	5.0	150n	600m	0	70	DA47	PC12
49	1415	D	8	1.0	-1.0	170 Ω			TTL	2.4	.40	0.0	5.0	150n	205m	0	70	DA9	PC
50	MC75140P1	S	2	.16*	3.4Δ		16m	.40	TTL	2.4	.40	0.0	5.0	35n	175m	0	70	DA9	DL40
51	CM1160	S	2	.80	2.1	7.0k	1.6m	.40	TTL	4.0	.40	12	5.0	200n	270m	0	70	DA1	T0116
52	CM1161	S	2	.80	2.1	7.0k	1.6m	.40	TTL	4.0	.40	12	5.0	200n	270m	0	70	DA1	T0116
53	DS7822J	S	2	2.0	-2.0	7.0k	3.5m	.40	TTL	2.5	.40	0.0	5.0	125n	120m	55	125	DA36	DL16b
54	DS8822N	S	2	2.0	-2.0	7.0k	3.5m	.40	TTL	2.5	.40	0.0	5.0	125n	120m	0	70	DA36	DL54
55	SN55140JG	S	2	3.4	1.6		16m	.40	TTL	2.4	.40	0.0	5.0	35n	175m	0	70	DA9	DL27
56	SN75140JG	S	2	3.4	1.6		16m	.40	TTL	2.4	.40	0.0	5.0	35n	175m	0	70	DA9	DL27
57	SN75140P	S	2	3.4	1.6		16m	.40	TTL	2.4	.40	0.0	5.0	35n	175m	0	70	DA9	DL28
58	8T16A	S	2	4.5	.40	7.0k	9.6m	.40	TTL	2.6	.40	0.0	5.0	150n	150m	0	75	DA54	DL3a
59	8T16F	S	2	4.5	.40	7.0k	9.6m	.40	TTL	2.6	.40	0.0	5.0	150n	150m	0	75	DA54	DL16d
60	MB438	S	3						TTL	2.4	.40	0.0	5.0	200m†	200m†	0	70	DA46	DL17r
61	MB438M	S	3						TTL	2.4	.40	0.0	5.0	200m†	200m†	0	70	DA46	DL17q
62	DS75124J	S	3	1.4	1.0		16m	.40	TTL	2.6	.40	0.0	5.0	30n	360m	0	75	DA2	DL17d
63	DS75124N	S	3	1.4	1.0		16m	.40	TTL	2.6	.40	0.0	5.0	30n	360m	0	75	DA2	DL56
64	55122DM	S	3	1.5	.60		16m	.40	TTL	2.6	.40	0.0	5.0	30n	360m	55	125	DA2	DL17f
65	55122FM	S	3	1.5	.60		16m	.40	TTL	2.6	.40	0.0	5.0	30n	360m	55	125	DA2	FP13
66	75122DC	S	3	1.5	.60		16m	.40	TTL	2.6	.40	0.0	5.0	30n	360m	0	70	DA2	DL17f
67	75122PC	S	3	1.5	.60		16m	.40	TTL	2.6	.40	0.0	5.0	30n	360m	0	70	DA2	DL52
68	75124DC	S	3	1.5	.40		16m	.40	TTL	2.6	.40	0.0	5.0	30n	360m	0	70	DA2	DL17f
69	75124PC	S	3	1.5	.40		16m	.40	TTL	2.6	.40	0.0	5.0	30n	360m	0	70	DA2	DL52
70	uA8T14DC	S	3	1.5	.50	30k	16m	.40	TTL	2.6	.40	0.0	5.0	30n	380m	0	70	DA2	DL17f
71	uA8T14DM	S	3	1.5	.50	30k	16m	.40	TTL	2.6	.40	0.0	5.0	30n	380m	55	125	DA2	DL17f
72	uA8T14FM	S	3	1.5	.50	30k	16m	.40	TTL	2.6	.40	0.0	5.0	30n	380m	55	125	DA2	FP13
73	uA8T14PC	S	3	1.5	.50	30k	16m	.40	TTL	2.6	.40	0.0	5.0	30n	380m	0	70	DA2	DL52
74	uA8T24DC	S	3	1.5	.40	18k†	16m	.40	TTL	2.6	.40	0.0	5.0	30n	380m	0	70	DA10	DL17f
75	uA8T24PC	S	3	1.5	.40	18k†	16m	.40	TTL	2.6	.40	0.0	5.0	30n	380m	0	70	DA10	DL52
76	8T24B	S	3	1.7	.70		16m	.40	TTL	2.6	.40	0.0	5.0	30n	380m	0	75	DA10	DL4a
77	8T24F	S	3	1.7	.70		16m	.40	TTL	2.6	.40	0.0	5.0	30n	380m				

20. LINE RECEIVERS

IN ORDER OF: (1)INPUT MODE (2)CKTS/DEVICE
(3)HIGH INPUT THRESHOLD VOLT.& (4)TYPE No.

LINE No.	4 TYPE NUMBER	1 INPUT MODE	2 CKTS PER DEV.	THRESHOLD VOLT.-INPUT		3 HIGH (V)	LOW (V)	MAX. INPUT RESIS (Ω)	MIN. OUTPUT SINK CURRENT		T E C H N	OUTPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. PROP. DELAY tpd (s)	MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS	
				10m	@ Vo (V)				HIGH (min) (V)	LOW (max) (V)		NEG. (V)	POS. (V)	(-)	(+)			LOGIC DWG. No.	OUTLINE DWG. No.		
				(A)	(V)				(V)	(V)		(V)	(V)	(°C)	(°C)						
1	AM1489APC	S	4	1.75*	1.25Δ	10m	.45	TTL	2.6	.45	0.0	5.0	85n	130m	0	75	DA21	DL63b			
2	AM1489AXC	S	4	1.75*	1.25Δ	10m	.45	TTL	2.6	.45	0.0	5.0	85n	130m	0	75	DA21	CH8a			
3	HD1-1489A	S	4	1.75*	1.25Δ	10m	.45	TTL	2.6	.45	0.0	5.0	85n	130m	0	75	DA21	DL45a			
4▼	MC1489AF	S	4	1.75	1.25Δ	10m	.45	DTL	2.6	.45	0.0	5.0	85n	1.0	0	75	DA21a	DL16d			
5▼	MC1489F	S	4	1.75	1.25Δ	10m	.45	DTL	2.6	.45	0.0	5.0	85n	1.0	0	75	DA21b	DL16d			
6▼	SG1489J	S	4	1.75*	1.25Δ	10m	.45	TTL	2.6	.45	0.0	5.0	85n	130m	0	75	da21b	DL23a			
7▼	XR1489AN	S	4	1.75*	1.25Δ	10m	.45	TTL	2.6	.45	0.0	5.0	85n	130m	0	75	DA21	DL16h			
8▼	XR1489AP	S	4	1.75*	1.25Δ	10m	.45	TTL	2.6	.45	0.0	5.0	85n	130m	0	75	DA21	DL16h			
9	SN75189AJ	S	4	1.9	.97	10m	.45	TTL	2.6	.45	0.0	5.0	85n	130m	0	75	DA8	DL23			
10	SN75189AN	S	4	1.9	.97	10m	.45	TTL	2.6	.45	0.0	5.0	85n	130m	0	75	DA8	DL24			
11	MC1489AL	S	4	1.95	.80	7.0k	10m	3.0	DTL	2.6	.45	0.0	5.0	85n	130m	0	75	DA21	TO116		
12	MC1489AP	S	4	1.95	.80	7.0k	10m	3.0	DTL	2.6	.45	0.0	5.0	85n	130m	0	75	DA21	DL29		
13	RC1489ADC	S	4	1.95	.80	7.0k	10m	.45	TTL	2.6	.45	0.0	5.0	85n	130m	0	75	DA21	DL1		
14	75154DC	S	4	2.2	-1.1	7.0k	16m	.40	TTL	2.4	.40	0.0	5.0	20nf	376mf	0	70	DA7	DL17f		
15	75154PC	S	4	2.2	-1.1	7.0k	16m	.40	TTL	2.4	.40	0.0	5.0	20nf	376mf	0	70	DA7	DL52		
16	DS75154J	S	4	2.2	-1.1	7.0k	16m	.40	TTL	2.4	.40	0.0	5.0	22nf	175m	0	70	DA7	DL17d		
17	DS75154N	S	4	2.2	-1.1	7.0k	16m	.40	TTL	2.4	.40	0.0	5.0	22nf	175m	0	70	DA7	DL56		
18	SN75154J	S	4	2.2	-1.1	7.0k	16m	.40	TTL	2.4	.40	0.0	5.0	22nf	376mf	0	70	DA7	DL25		
19	SN75154N	S	4	2.2	-1.1	7.0k	16m	.40	TTL	2.4	.40	0.0	5.0	22nf	376mf	0	70	DA7	DL26		
20▼	8T380A	S	4	2.25	1.30	16m	.40	TTL	2.4	.40	0.0	5.0	35n	210m	0	75	DA55	DL3a			
21	DS1489AJ	S	4	2.25Δ	.75*	10m	.45	TTL	2.6	.45	0.0	5.0	85n	130m	0	75	DA8	DL16b			
22	DS7836J	S	4	2.25	1.3	16m	.40	TTL	2.4	.40	0.0	5.0	30n	200m	55	125	DA27	DL16b			
23	DS7836W	S	4	2.25	1.3	16m	.40	TTL	2.4	.40	0.0	5.0	30n	200m	55	125	DA27	FP6			
24	DS8836J	S	4	2.25	1.3	16m	.40	TTL	2.4	.40	0.0	5.0	30n	200m	0	70	DA27	DL16b			
25	DS8836N	S	4	2.25	1.3	16m	.40	TTL	2.4	.40	0.0	5.0	30n	200m	0	70	DA27	DL54			
26▼	ITT1489A-1J	S	4	2.25Δ	.75*	7.0k	10m	.45	RTL	2.6	.45	0.0	5.0	85n	130m	55	125	DA8b	DL3d		
27▼	ITT1489A-5J	S	4	2.25Δ	.75*	7.0k	10m	.45	RTL	2.6	.45	0.0	5.0	85n	130m	0	75	DA8b	DL3d		
28#	T172B1	S	4	2.6*	1.5	20m	.40	TTL	2.6	.40	0.0	5.0	12n	250m	0	75	DA41	DL24b			
29	MC10129L	S	4	-1.4Δ	-1.1*	23m	∅	ECL	-.96	-1.6	5.2	0.0	27n	894m	30	85	DA15	DL30			
30▼	8T37A	S	6	2.25	1.30	16m	.40	TTL	2.4	.40	0.0	5.0	30n	315m	0	75	DA60	DL7			
31	DS7837J	S	6	2.25	1.3	16m	.40	TTL	2.4	.40	0.0	5.0	30n	300m	55	125	DA28	DL17d			
32	DS7837W	S	6	2.25	1.3	16m	.40	TTL	2.4	.40	0.0	5.0	30n	300m	55	125	DA28	FP7			
33	DS8837J	S	6	2.25	1.3	16m	.40	TTL	2.4	.40	0.0	5.0	30n	300m	0	70	DA28	DL17d			
34	DS8837N	S	6	2.25	1.3	16m	.40	TTL	2.4	.40	0.0	5.0	30n	300m	0	70	DA28	DL56			
35	MC3437L	S	6	2.25	1.3	16m	.40	TTL	2.4	.40	0.0	5.0	30n	325m	0	70	DA22	DL17b			
36	MC3437P	S	6	2.25	1.3	16m	.40	TTL	2.4	.40	0.0	5.0	30n	325m	0	70	DA22	DL30			

21. LINE TRANSCEIVERS

IN ORDER OF: (1)INP/OUTPUT MODE (2)CKTS/DEV (3)MIN.DRIVER SINK CURR. &(4)TYPE NUMBER

LINE No.	TYPE NUMBER	INPUT-OUTPUT MODE	2 CKTS PER DEV.	3 DRIVER MIN. SINK CURR.		RECVR.INPUT THRESHOLD VOLTAGE		MAX. RECVR. INPUT CURR. (A)	T E C H N	OUTPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. PROP. DELAY tpd (s)	MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO
				(A)	@ V _o (V)	HIGH (V)	LOW (V)			HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)			(-)	(+)		
1	SN55116J	D	1	40m	.40	1.0Δ	-1.0Δ	5.0u	TTL	2.4	.40s	0.0	5.0	35n	300m	55	125	DB2	DL25
2	SN55117JG	D	1	40m	.40	1.0Δ	-1.0Δ	5.0u	TTL	2.4	.40s	0.0	5.0	35n	300m	55	125	DB3	DL27
3	SN55118J	D	1	40m	.40	1.0Δ	-1.0Δ	1.0m	TTL	2.4	.40s	0.0	5.0	35n	300m	55	125	DB4	DL25
4	SN55119JG	D	1	40m	.40	1.0Δ	-1.0Δ	1.0m	TTL	2.4	.40s	0.0	5.0	35n	300m	55	125	DB5	DL27
5	SN75116J	D	1	40m	.40	1.0Δ	-1.0Δ	5.0u	TTL	2.4	.40s	0.0	5.0	40n	300m	0	70	DB2	DL25
6	SN75116N	D	1	40m	.40	1.0Δ	-1.0Δ	5.0u	TTL	2.4	.40s	0.0	5.0	40n	300m	0	70	DB2	DL26
7	SN75117JG	D	1	40m	.40	1.0Δ	-1.0Δ	5.0u	TTL	2.4	.40s	0.0	5.0	40n	300m	0	70	DB3	DL27
8	SN75117P	D	1	40m	.40	1.0Δ	-1.0Δ	5.0u	TTL	2.4	.40s	0.0	5.0	40n	300m	0	70	DB3	DL28
9	SN75118J	D	1	40m	.40	1.0Δ	-1.0Δ	1.0m	TTL	2.4	.40s	0.0	5.0	40n	300m	0	70	DB4	DL25
10	SN75118N	D	1	40m	.40	1.0Δ	-1.0Δ	1.0m	TTL	2.4	.40s	0.0	5.0	40n	300m	0	70	DB4	DL26
11	SN75119JG	D	1	40m	.40	1.0Δ	-1.0Δ	1.0m	TTL	2.4	.40s	0.0	5.0	40n	300m	0	70	DB5	DL27
12	SN75119P	D	1	40m	.40	1.0Δ	-1.0Δ	1.0m	TTL	2.4	.40s	0.0	5.0	40n	300m	0	70	DB5	DL28
13▼	MC10194L	D	2	6.9m	-1.6	-1.1*	-1.4Δ	330u	ECL	-96	-1.6	5.2	0.0	2.5n	405m	30	85	DB31	DL17b
14▼	MC696L	D	2	12m	1.5	25	1.5*		DTL	8.5	1.5	0.0	15	1.0u	750m	30	75	DB29	DL116
15▼	MC696P	D	2	12m	1.5	25	1.5*		DTL	8.5	1.5	0.0	15	1.0u	750m	30	75	DB29	DL30
16	SN55138J	D	4	100m	.45	3.2	1.5Δ	300u	TTL	2.4	.40s	0.0	5.0	32n	325m	55	125	DB6	DL25
17	SN75138J	D	4	100m	.45	2.9	1.8Δ	300u	TTL	2.4	.40s	0.0	5.0	32n	325m	0	70	DB6	DL25
18	SN75138N	D	4	100m	.45	2.9	1.8Δ	300u	TTL	2.4	.40s	0.0	5.0	32n	325m	0	70	DB6	DL26
19▼	MC14412VP	S	1	4.0m	.45	3.5	1.5		CMS	4.95	.05	0.0	5.0	15n	20m	40	85	DB33	DL30
20▼	SN545226J	S	1	20m	.50	2.0	.80	1.0m	TTL	2.4	.50s	0.0	5.0	14n	625m	55	125	DB35	DL25
21▼	SN545226W	S	1	20m	.50	2.0	.80	1.0m	TTL	2.4	.50s	0.0	5.0	14n	625m	55	125	DB35	Δ004AG
22▼	SN745226J	S	1	20m	.50	2.0	.80	1.0m	TTL	2.4	.50s	0.0	5.0	14n	625m	0	70	DB35	DL25
23▼	SN745226N	S	1	20m	.50	2.0	.80	1.0m	TTL	2.4	.50s	0.0	5.0	14n	625m	0	70	DB35	DL26
24▼	MC14412FP	S	1	35m	1.5	8.25	6.75		CMS	14.9	.05	0.0	15	4.0n	375m	40	85	DB33	DL30
25▼	BT30A	S	2	60m	.40	2.0	.80	80u	TTL	3.0	.40	0.0	5.0	70n	370m	0	70	DB36	DL3a
26▼	BT30P	S	2	60m	.40	2.0	.80	80u	TTL	3.0	.40	0.0	5.0	70n	370m	0	70	DB36	DL16d
27▼	MB424	S	4						TTL	2.6	.50	0.0	5.0		240m	0	70	DB27	DL17r
28▼	MB424M	S	4						TTL	2.6	.50	0.0	5.0		240m	0	70	DB27	DL17q
29	MC3438L	S	4	20u	4.0	2.25	1.30		TTL	2.4	.40	0.0	5.0	30n	350m	0	70	DB13	DL17b
30	MC3438P	S	4	20u	4.0	2.25	1.30		TTL	2.4	.40	0.0	5.0	30n	350m	0	70	DB13	DL30
31	DS7641J	S	4	16m	.40	1.8*	1.2Δ	100u	TTL	2.0	.80	0.0	5.0	30n	350m	55	125	DB14	DL17d
32	DS7833J	S	4	16m	.40	1.75	1.35	80u	TTL	2.0	.80s	0.0	5.0	45n	475m	55	125	DB16	DL17d
33	DS7833W	S	4	16m	.40	1.75	1.35	80u	TTL	2.0	.80s	0.0	5.0	45n	475m	55	125	DB16	FP7
34	DS7834J	S	4	16m	.40	1.75	1.35	80u	TTL	2.0	.80s	0.0	5.0	35n	475m	55	125	DB18	DL17d
35	DS7834W	S	4	16m	.40	1.75	1.35	80u	TTL	2.0	.80s	0.0	5.0	35n	475m	55	125	DB18	FP7
36	DS7835J	S	4	16m	.40	1.75	1.35	80u	TTL	2.0	.80s	0.0	5.0	35n	475m	55	125	DB17	DL17d
37	DS7835W	S	4	16m	.40	1.75	1.35	80u	TTL	2.0	.80s	0.0	5.0	35n	475m	55	125	DB17	FP7
38	DS7838J	S	4	16m	.40	1.65	1.63	100u	TTL	2.0	.80	0.0	5.0	30n	350m	55	125	DB20	DL17d
39	DS7838W	S	4	16m	.40	1.65	1.63	100u	TTL	2.0	.80	0.0	5.0	30n	350m	55	125	DB20	FP7
40	DS7839J	S	4	16m	.40	1.75	1.35	80u	TTL	2.0	.80s	0.0	5.0	45n	475m	55	125	DB19	DL17d
41	DS7839W	S	4	16m	.40	1.75	1.35	80u	TTL	2.0	.80s	0.0	5.0	45n	475m	55	125	DB19	FP7
42	DS8641J	S	4	16m	.40	1.7*	1.3Δ	100u	TTL	2.0	.80	0.0	5.0	30n	350m	0	70	DB14	DL17d
43	DS8641N	S	4	16m	.40	1.7*	1.3Δ	100u	TTL	2.0	.80	0.0	5.0	30n	350m	0	70	DB14	DL56
44	DS8642J	S	4	16m	.45	3.1*	1.4Δ	450u	TTL	2.0	.80	0.0	5.0	55n	320m	0	70	DB15	DL17d
45	DS8642N	S	4	16m	.45	3.1*	1.4Δ	450u	TTL	2.0	.80	0.0	5.0	55n	320m	0	70	DB15	DL56
46	DS8833J	S	4	16m	.40	1.75	1.35	80u	TTL	2.0	.80s	0.0	5.0	45n	475m	0	70	DB16	DL17d
47	DS8833N	S	4	16m	.40	1.75	1.35	80u	TTL	2.0	.80s	0.0	5.0	45n	475m	0	70	DB16	DL56
48	DS8834J	S	4	16m	.40	1.75	1.35	80u	TTL	2.0	.80s	0.0	5.0	35n	475m	0	70	DB18	DL17d
49	DS8834N	S	4	16m	.40	1.75	1.35	80u	TTL	2.0	.80s	0.0	5.0	35n	475m	0	70	DB18	DL56
50	DS8835J	S	4	16m	.40	1.75	1.35	80u	TTL	2.0	.80s	0.0	5.0	35n	475m	0	70	DB17	DL17d
51	DS8835N	S	4	16m	.40	1.75	1.35	80u	TTL	2.0	.80s	0.0	5.0	35n	475m	0	70	DB17	DL56
52	DS8838J	S	4	16m	.40	1.8	1.55	100u	TTL	2.0	.80	0.0	5.0	30n	350m	0	70	DB20	DL17d
53	DS8838N	S	4	16m	.40	1.8	1.55	100u	TTL	2.0	.80	0.0	5.0	30n	350m	0	70	DB20	DL56
54	DS8839J	S	4	16m	.40	1.75	1.35	80u	TTL	2.0	.80s	0.0	5.0	45n	475m	0	70	DB19	DL17d
55	DS8839N	S	4	16m	.40	1.75	1.35	80u	TTL	2.0	.80s	0.0	5.0	45n	475m	0	70	DB19	DL56
56▼	MC54460L	S	4	16m	.40	2.0	.80	2.0m	TTL	2.4	.40s	0.0	5.0	33n	250m	55	125	DB32	DL17b
57▼	MC54460P	S	4	16m	.40	2.0	.80	2.0m	TTL	2.4	.40s	0.0	5.0	33n	250m	0	75	DB32	DL30
58	MC8T26L	S	4	40m	.50	2.0*	.85Δ	25u	TTL	2.6	.50s	0.0	5.25	43n	456m	0	75	DB8	DL17a
59	MC8T26P	S	4	40m	.50	2.0*	.80Δ	25u	TTL	2.6	.50s	0.0	5.25	43n	456m	0	75	DB8	DL30
60▼	BT26AB	S	4	48m	.50	2.0*	.85Δ	25u	TTL	2.4	.50s	0.0	5.0	14n	457m	0	70	DB8	DL4a
61▼	BT26AF	S	4	48m	.50	2.0*	.85Δ	25u	TTL	2.4	.50s	0.0	5.0	14n	457m	0	70	DB8	DL17h
62▼	BT26B	S	4	48m	.50	2.0*	.85Δ	25u	TTL	2.4	.50s	0.0	5.0	17n	578m	0	70	DB9	DL4a
63▼	BT26F	S	4	48m	.50	2.0*	.85Δ	25u	TTL	2.4	.50s	0.0	5.0	17n	578m	0	70	DB9	DL17h
64▼	MC8T26AL	S	4	48m	.50	2.0*	.85Δ	200u	DTL	2.4	.50s	0.0	5.0	25n	456m	0	75	DB8	DL17b
65▼	MC8T26AP	S	4	48m	.50	2.0*	.85Δ	200u	DTL	2.4	.50s	0.0	5.0	25n	456m	0	75	DB8	DL30
66▼	MC8T28L	S	4	48m	.50	2.0*	.85Δ	200u	DTL	2.4	.50s	0.0	5.0	28n	456m	0	75	DB9	DL17b
67▼	MC8T28P	S	4	48m	.50	2.0*	.85Δ	200u	DTL	2.4	.50s	0.0	5.0	28n	456m	0	75	DB9	DL30
68	MC3440P	S	4	48m	.40	2.0Δ	.80*		TTL	2.4	.40	0.0	5.0	40n	375m	0	70	DB10	DL30
69	MC3441P	S	4	48m	.40	2.0Δ	.80*		TTL	2.4	.40	0.0	5.0	40n	375m	0	70	DB11	DL30
70	MC3443P	S	4	48m	.40	2.0Δ	.80*		TTL	2.4	.40	0.0	5.0	40n	375m	0	70	DB10	DL30
71▼	MC3446P	S	4	48m	.40	2.0Δ	.80*		TTL	2.4	.40	0.0	5.0	32n	375m	0	70	DB12	DL30
72	XC8T28L	S	4	48m	.50	2.0*	.85Δ	25u	TTL	2.4	.50s	0.0	5.25	28n	204m	0	75	DB9	DL17a
73	XC8T28P	S	4	48m	.50	2.0*	.85Δ	25u	TTL	2.4	.50s	0.0	5.25	28n	456m	0	75	DB9	DL30
74	XC3448	S	4	48m	.40	1.75	1.1	40u	TTL	2.5	.40	0.0	5.0	40n	600m	0	70	DB7	DL30
75▼	BT34A	S	4	50m	.70	2.2	1.3		TTL	2.4	.40s	0.0	5.0	40n	315m	0	70	DB37	DL3a

21. LINE TRANSCEIVERS

IN ORDER OF: (1)INP/OUTPUT MODE (2)CKTS/DEV
(3)MIN.DRIVER SINK CURR. &(4)TYPE NUMBER

LINE No.	4 TYPE NUMBER	1 INPUT-OUTPUT MODE	2 CKTS PER DEV.	3 DRIVER MIN. SINK CURR.		RECVR.INPUT THRESHOLD VOLTAGE		MAX. INPUT CURR. (A)	T E C H N	OUTPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. PROP. DELAY tpd (s)	MAX. OPERATE. PWR. DISS. (W)	OPER. TEMP.		DRAWINGS	
				(A)	@ Vo (V)	HIGH (V)	LOW (V)			HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)			(-)	(+)	LOGIC DWG. No.	OUTLINE DWG. No.
1	AM2906FM	S	4	100m	80	2.4*	1.6Δ	360u	TTL	2.4	.50	0.0	5.0	21nt	360mt	55	125	DB25	FP22
2	AM2906PC	S	4	100m	80	2.25*	1.75Δ	360u	TTL	2.4	.50	0.0	5.0	21nt	360mt	0	70	DB25	DL83
3	AM2906XC	S	4	100m	80	2.25*	1.75Δ	360u	TTL	2.4	.50	0.0	5.0	21nt	360mt	0	70	DB25	CHZ
4	AM2906XM	S	4	100m	80	2.4*	1.6Δ	360u	TTL	2.4	.50	0.0	5.0	21nt	360mt	55	125	DB25	CHZ
5	AM2907DC	S	4	100m	80	2.25*	1.75Δ	360u	TTL	2.4	.50s	0.0	5.0	21nt	345mt	0	70	DB26	DLZ
6	AM2907DM	S	4	100m	80	2.4*	1.6Δ	360u	TTL	2.4	.50s	0.0	5.0	21nt	345mt	55	125	DB26	DLZ
7	AM2907FM	S	4	100m	80	2.4*	1.6Δ	360u	TTL	2.4	.50s	0.0	5.0	21nt	345mt	55	125	DB26	FPZ
8	AM2907PC	S	4	100m	80	2.25*	1.75Δ	360u	TTL	2.4	.50s	0.0	5.0	21nt	345mt	0	70	DB26	DLZ
9	AM2907XC	S	4	100m	80	2.25*	1.75Δ	360u	TTL	2.4	.50s	0.0	5.0	21nt	345mt	0	70	DB26	CHZ
10	AM2907XM	S	4	100m	80	2.4*	1.6Δ	360u	TTL	2.4	.50s	0.0	5.0	21nt	345mt	55	125	DB26	CHZ
11	ITT55138J	S	4	100m	45	3.2Z	1.5Δ	300u	TTL	2.4	.40	0.0	5.0	32n	325m	55	125	DB6	DLZ
12	ITT55138N	S	4	100m	45	3.2Z	1.5Δ	300u	TTL	2.4	.40	0.0	5.0	32n	325m	55	125	DB6	DLZ
13	ITT75138J	S	4	100m	45	2.9Z	1.8Δ	300u	TTL	2.4	.40	0.0	5.0	32n	325m	0	70	DB6	DLZ
14	ITT75138N	S	4	100m	45	2.9Z	1.8Δ	300u	TTL	2.4	.40	0.0	5.0	32n	325m	0	70	DB6	DLZ
15	SN54LS245J	S	8	12m	40	2.0Z	.80	100u	TTL	2.4	.40s	0.0	5.0	18n	505m♦	55	125	DB34	DL127
16	SN74LS245J	S	8	24m	50	2.0Z	.80	100u	TTL	2.4	.40s	0.0	5.0	18n	505m♦	0	70	DB34	DL127
17	SN74LS245N	S	8	24m	50	2.0Z	.80	100u	TTL	2.4	.40s	0.0	5.0	18n	505m♦	0	70	DB34	DL31

22. SENSE AMPLIFIERS

IN ORDER OF: (1)CKTS/DEV. (2)TYPE OF MEMORY
(3)MIN.INPUT THRESHOLD VOLT. & (4)TYPE No.

LINE No.	TYPE NUMBER	1 CKTS PER DEV.	2 TYPE OF MEM. ORY	INPUT THRESHOLD VOLTAGE (V)		No. INP CHAN PER CKT.	COMM. MODE FIRING V. P-P (V)	T E C H N	OUTPUT LOGIC LEVEL		RATED PWR SUPPLY SPAN		ADDIT FUNCT-IONS AVAIL ABLE	MAX. PROP. DELAY tpd (s)	MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS	
				3 MIN	MAX.				HIGH (min)	LOW (max)	NEG. (V)	POS. (V)				(-) (°C)	(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No.
				Δ=MO															
1	MC1440F	1	COR	12m	24m	1	10	TTL	5.8	.40	6.0	6.0		50n	250m	55	75	DC11	TO91
2	MC1440G	1	COR	12m	24m	1	10	TTL	5.8	.40	6.0	6.0		50n	250m	55	75	DC11	CN6
3	MC1440L	1	COR	12m	24m	1	10	TTL	5.8	.40	6.0	6.0		50n	250m	55	75	DC11	TO116
4	MC1440P	1	COR	12m	24m	1	10	TTL	5.8	.40	6.0	6.0		50n	250m	55	75	DC11	DL29
5	MC1540F	1	COR	14m	20m	1	10	TTL	5.9	.35	6.0	6.0		30n	180m	0	75	DC11	TO91
6	MC1540G	1	COR	14m	20m	1	10	TTL	5.9	.35	6.0	6.0		30n	180m	0	75	DC11	CN6
7	MC1540L	1	COR	14m	20m	1	10	TTL	5.9	.35	6.0	6.0		30n	180m	0	75	DC11	TO116
8	MC1540P	1	COR	14m	20m	1	10	TTL	5.9	.35	6.0	6.0		30n	180m	0	75	DC11	DL29
9 #	ZN1030E	1	COR	14m	22m	1	10	TTL	2.6	.50	6.0	4.5		35n	225m	0	70	DC28	DL45e
10	DS5521J	1	COR	33m	47m	2	5.0	TTL	2.4	.40	5.0	5.0		55n	265m	55	125	DC2	DL17d
11	DS5523J	1	COR	33m	47m	2	5.0	TTL	2.4	.40	5.0	5.0		45n	270m	55	125	DC3	DL17d
12	DS7521J	1	COR	33m	47m	2	5.0	TTL	2.4	.40	5.0	5.0		55n	265m	0	70	DC2	DL17d
13	DS7521N	1	COR	33m	47m	2	5.0	TTL	2.4	.40	5.0	5.0		55n	265m	0	70	DC2	DL56
14	DS7523J	1	COR	33m	47m	2	5.0	TTL	2.4	.40	5.0	5.0		45n	270m	0	70	DC3	DL17d
15	DS7523N	1	COR	33m	47m	2	5.0	TTL	2.4	.40	5.0	5.0		45n	270m	0	70	DC3	DL56
16	ITT5521J	1	COR	33m	47m	2	5.0	TTL	2.4	.40	5.0	5.0		55n	265m	55	125	DC2	DL17d
17	ITT5521N	1	COR	33m	47m	2	5.0	TTL	2.4	.40	5.0	5.0		55n	265m	55	125	DC2	DL17d
18	ITT5523J	1	COR	33m	47m	2	5.0	TTL	2.4	.40	5.0	5.0		45n	270m	55	125	DC3	DL17d
19	ITT5523N	1	COR	33m	47m	2	5.0	TTL	2.4	.40	5.0	5.0		45n	270m	55	125	DC3	DL17d
20	ITT7521J	1	COR	33m	47m	2	5.0	TTL	2.4	.40	5.0	5.0		55n	265m	0	70	DC2	DL17d
21	ITT7521N	1	COR	33m	47m	2	5.0	TTL	2.4	.40	5.0	5.0		55n	265m	0	70	DC2	DL17d
22	ITT7523J	1	COR	33m	47m	2	5.0	TTL	2.4	.40	5.0	5.0		45n	270m	0	70	DC3	DL17d
23	ITT7523N	1	COR	33m	47m	2	5.0	TTL	2.4	.40	5.0	5.0		45n	270m	0	70	DC3	DL17d
24	ITT5520J	1	COR	35m	45m	2	5.0	TTL	2.4	.40	5.0	5.0		55n	265m	55	125	DC2	DL17d
25	ITT5520N	1	COR	35m	45m	2	5.0	TTL	2.4	.40	5.0	5.0		55n	265m	55	125	DC2	DL17d
26	ITT5522J	1	COR	35m	45m	2	5.0	TTL	2.4	.40	5.0	5.0		45n	270m	55	125	DC3	DL17d
27	ITT5522N	1	COR	35m	45m	2	5.0	TTL	2.4	.40	5.0	5.0		45n	270m	55	125	DC3	DL17d
28	SN5520J	1	COR	35m	45m	2	5.0	TTL	2.4	.40	5.0	5.0		55n	300m	55	125	DC2	DL25
29	SN5522J	1	COR	35m	45m	2	5.0	TTL	2.4	.40	5.0	5.0		45n	300m	55	125	DC3	DL25
30	SN5526J	1	COR	35m	45m	2	5.0	TTL	2.4	.40	5.0	5.0		45n	300m	55	125	DC5	DL25
31	DS5520J	1	COR	36m	44m	2	5.0	TTL	2.4	.40	5.0	5.0		55n	265m	55	125	DC2	DL17d
32	DS5522J	1	COR	36m	44m	2	5.0	TTL	2.4	.40	5.0	5.0		45n	270m	55	125	DC3	DL17d
33	DS7520J	1	COR	36m	44m	2	5.0	TTL	2.4	.40	5.0	5.0		55n	265m	0	70	DC2	DL17d
34	DS7520N	1	COR	36m	44m	2	5.0	TTL	2.4	.40	5.0	5.0		55n	265m	0	70	DC2	DL56
35	DS7522J	1	COR	36m	44m	2	5.0	TTL	2.4	.40	5.0	5.0		45n	270m	0	70	DC3	DL17d
36	DS7522N	1	COR	36m	44m	2	5.0	TTL	2.4	.40	5.0	5.0		45n	270m	0	70	DC3	DL56
37	ITT7520J	1	COR	36m	44m	2	5.0	TTL	2.4	.40	5.0	5.0		55n	265m	0	70	DC2	DL17d
38	ITT7520N	1	COR	36m	44m	2	5.0	TTL	2.4	.40	5.0	5.0		55n	265m	0	70	DC2	DL17d
39	ITT7522J	1	COR	36m	44m	2	5.0	TTL	2.4	.40	5.0	5.0		45n	270m	0	70	DC3	DL17d
40	ITT7522N	1	COR	36m	44m	2	5.0	TTL	2.4	.40	5.0	5.0		45n	270m	0	70	DC3	DL17d
41	SN7520J	1	COR	36m	44m	2	5.0	TTL	2.4	.40	5.0	5.0		55n	300m	0	70	DC2	DL25
42	SN7520N	1	COR	36m	44m	2	5.0	TTL	2.4	.40	5.0	5.0		55n	300m	0	70	DC2	DL25
43	SN7522J	1	COR	36m	44m	2	5.0	TTL	2.4	.40	5.0	5.0		45n	300m	0	70	DC3	DL25
44	SN7522N	1	COR	36m	44m	2	5.0	TTL	2.4	.40	5.0	5.0		45n	300m	0	70	DC3	DL25
45	SN7526J	1	COR	36m	44m	2	5.0	TTL	2.4	.40	5.0	5.0		45n	300m	0	70	DC5	DL25
46	SN7528N	1	COR	36m	44m	2	5.0	TTL	2.4	.40	5.0	5.0		45n	300m	0	70	DC5	DL25
47	DS5520AJ	1	COR	38m	42m	2	5.0	TTL	2.4	.40	5.0	5.0		55n	265m	55	125	DC2	DL17d
48	DS5522AJ	1	COR	38m	42m	2	5.0	TTL	2.4	.40	5.0	5.0		45n	270m	55	125	DC3	DL17d
49	DS7520AJ	1	COR	38m	42m	2	5.0	TTL	2.4	.40	5.0	5.0		55n	265m	0	70	DC2	DL17d
50	DS7520AN	1	COR	38m	42m	2	5.0	TTL	2.4	.40	5.0	5.0		55n	265m	0	70	DC2	DL56
51	DS7522AJ	1	COR	38m	42m	2	5.0	TTL	2.4	.40	5.0	5.0		45n	270m	0	70	DC3	DL17d
52	DS7522AN	1	COR	38m	42m	2	5.0	TTL	2.4	.40	5.0	5.0		45n	270m	0	70	DC3	DL17d
53	MC1444L	1	PLW	300u	2.3m	4	11	TTL	2.4	.50	6.0	5.0		25n	180m	0	75	DC14	DL17b
54	MC1544L	1	PLW	500u	1.5m	4	11	TTL	2.4	.50	6.0	5.0		25n	180m	55	125	DC14	DL17b
55	SN55244J	1	PLW	700m1		4	5.0	TTL	2.4	.50	6.0	5.0		25n	330m	55	125	DC10	DL25
56	SN55244JA	1	PLW	700m1		4	5.0	TTL	2.4	.50	6.0	5.0		25n	330m	55	125	DC10	DL32
57	SN55244N	1	PLW	700m1		4	5.0	TTL	2.4	.50	6.0	5.0		25n	330m	55	125	DC10	DL26
58	SN75244J	1	PLW	700m1		4	5.0	TTL	2.4	.50	6.0	5.0		25n	330m	0	70	DC10	DL25
59	SN75244JA	1	PLW	700m1		4	5.0	TTL	2.4	.50	6.0	5.0		25n	330m	0	70	DC10	DL32
60	SN75244N	1	PLW	700m1		4	5.0	TTL	2.4	.50	6.0	5.0		25n	330m	0	70	DC10	DL26
61	SN75236W	2	COR	4.0m	10m	1	3.0	TTL	2.4	.40	5.0	5.0		200n	365m	0	70	DC9	Δ019AA
62	SN55236W	2	COR	5.0m	9.0m	1	3.0	TTL	2.4	.40	5.0	5.0		200n	365m	55	125	DC9	Δ019AA
63	5525FM	2	COR	33m	47m	1	5.0	TTL	2.4	.40	5.0	5.0		40n	300m	55	125	DC4	FP13
64	5529DM	2	COR	33m	47m	1	5.0	TTL	2.4	.40	5.0	5.0		40n	300m	55	125	DC6	DL17f
65	5529FM	2	COR	33m	47m	1	5.0	TTL	2.4	.40	5.0	5.0		40n	300m	55	125	DC6	FP13
66	5529FM	2	COR	33m	47m	1	5.0	TTL	2.4	.40	5.0	5.0		40n	300m	55	125	DC6	FP13
67	5535DM	2	COR	33m	47m	1	5.0	TTL	2.4	.40	5.0	5.0		40n	280m	55	125	DC26	DL17f
68	5535FM	2	COR	33m	47m	1	5.0	TTL	2.4	.40	5.0	5.0		40n	280m	55	125	DC26	FP13
69	5539DM	2	COR	33m	47m	1	5.0	TTL	2.4	.40	5.0	5.0		40n	300m	55	125	DC8	DL17f
70	5539FM	2	COR	33m	47m	1	5.0	TTL	2.4	.40	5.0	5.0		40n	300m	55	125	DC8	FP13
71	7525DC	2	COR	33m	47m	1	5.0	TTL	2.4	.40	5.0	5.0		40n	300m	0	70	DC4	DL17f
72	7525PC	2	COR	33m	47m	1	5.0	TTL	2.4	.40	5.0	5.0		40n	300m	0	70	DC4	DL52
73	7529DC	2	COR	33m	47m	1	5.0	TTL	2.4	.40	5.0	5.0		40n	300m	0	70	DC6	DL17f
74	7529PC	2	COR	33m	47m	1	5.0	TTL	2.4	.40	5.0	5.0		40n	300m	0	70	DC6	DL52
75	7535DC	2	COR	33m	47m	1	5.0	TTL	2.4	.40	5.0	5.0		40n	280m	0	70	DC26	DL17f
76	7535PC	2	COR	33m	47m	1	5.0	TTL	2.4	.40	5.0	5.0		40n	280m	0	70	DC26	DL52
77	7539DC	2	COR	33m	47m	1	5.0	TTL	2.4	.40	5.0	5.0		40n	300m	0	70	DC8	DL17f
78	7539PC	2	COR	33m	47m	1	5.0	TTL	2.4	.40	5.0	5.0		40n					

22. SENSE AMPLIFIERS

IN ORDER OF: (1)CKTS/DEV. (2)TYPE OF MEMORY
(3)MIN.INPUT THRESHOLD VOLT. & (4)TYPE NO.

LINE No.	TYPE NUMBER	1 CKTS PER DEV.	2 TYPE OF MEMORY	INPUT THRESHOLD VOLTAGE		No. INP CHAN PER CKT.	COMM. MODE FIRING V. P-P (V)	T E C H N I C A L	OUTPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		ADDIT. FUNCT. IONS AVAIL ABLE	MAX. PROP. DELAY tpd (s)	MAX. OPERATE PWR. DISS. (W)		OPER. TEMP.		DRAWINGS	
				3	4				HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)			(-)	(+)	LOGIC DWG. No.	OUTLINE DWG. No.		
				MIN (V)	MAX. (V)				(min) (V)	(max) (V)					(°C)	(°C)				
1	ITT7525J	2	COR	33m	47m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	290m	0	70	DC4	DL2		
2	ITT7525N	2	COR	33m	47m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	290m	0	70	DC4	DL2		
3	ITT7529J	2	COR	33m	47m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	290m	0	70	DC6	DL2		
4	ITT7529N	2	COR	33m	47m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	290m	0	70	DC6	DL2		
5	ITT55235J	2	COR	33m	47m	1	5.0	TTL	2.4	.40	5.0	5.0	50n	290m	55	125	DC7	DL4b		
6	ITT75235J	2	COR	33m	47m	1	5.0	TTL	2.4	.40	5.0	5.0	50n	290m	0	70	DC7	DL4b		
7	MC5525L	2	COR	33m	47m	2	6.0	TTL	2.4	.40	5.0	5.0	40n	200m	55	125	DC16	DL17b		
8	MC5529L	2	COR	33m	47m	2	5.0	TTL	2.4	.40	5.0	5.0	40n	200m	55	125	DC17	DL17b		
9	MC5535L	2	COR	33m	47m	2	5.0	TTL	2.4	.40	5.0	5.0	40n	190m	55	125	DC18	DL17b		
10	MC5539L	2	COR	33m	47m	2	5.0	TTL	2.4	.40	5.0	5.0	40n	190m	55	125	DC19	DL17b		
11	MC7525L	2	COR	33m	47m	2	6.0	TTL	2.4	.40	5.0	5.0	40n	200m	0	70	DC16	DL17b		
12	MC7525P	2	COR	33m	47m	2	6.0	TTL	2.4	.40	5.0	5.0	40n	200m	0	70	DC16	DL30		
13	MC7529L	2	COR	33m	47m	2	5.0	TTL	2.4	.40	5.0	5.0	40n	200m	0	70	DC17	DL17b		
14	MC7529P	2	COR	33m	47m	2	5.0	TTL	2.4	.40	5.0	5.0	40n	200m	0	70	DC17	DL30		
15	MC7535L	2	COR	33m	47m	2	5.0	TTL	2.4	.40	5.0	5.0	40n	190m	0	70	DC18	DL17b		
16	MC7535P	2	COR	33m	47m	2	5.0	TTL	2.4	.40	5.0	5.0	40n	190m	0	70	DC18	DL30		
17	MC7539L	2	COR	33m	47m	2	5.0	TTL	2.4	.40	5.0	5.0	40n	190m	0	70	DC19	DL17b		
18	MC7539P	2	COR	33m	47m	2	5.0	TTL	2.4	.40	5.0	5.0	40n	190m	0	70	DC19	DL30		
19	5524DM	2	COR	35m	45m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	300m	55	125	DC4	DL17f		
20	5524FM	2	COR	35m	45m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	300m	55	125	DC4	FP13		
21	5528DM	2	COR	35m	45m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	200m	55	125	DC6	DL17f		
22	5528FM	2	COR	35m	45m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	300m	55	125	DC6	FP13		
23	5534DM	2	COR	35m	45m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	280m	55	125	DC26	DL17f		
24	5534FM	2	COR	35m	45m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	280m	55	125	DC26	FP13		
25	5538DM	2	COR	35m	45m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	300m	55	125	DC8	DL17f		
26	5538FM	2	COR	35m	45m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	300m	55	125	DC8	FP13		
27	55224DM	2	COR	35m	45m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	300m	55	125	DC27	DL17f		
28	55224FM	2	COR	35m	45m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	300m	55	125	DC27	FP13		
29	55232DM	2	COR	35m	45m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	300m	55	125	DC7	DL17f		
30	55232FM	2	COR	35m	45m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	300m	55	125	DC7	FP13		
31	55234DM	2	COR	35m	45m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	300m	55	125	DC7	DL17f		
32	55234FM	2	COR	35m	45m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	300m	55	125	DC7	FP13		
33	55238DM	2	COR	35m	45m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	300m	55	125	DC8	DL17f		
34	55238FM	2	COR	35m	45m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	300m	55	125	DC8	FP13		
35	ITT5524J	2	COR	35m	45m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	290m	55	125	DC4	DL2		
36	ITT5524N	2	COR	35m	45m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	290m	55	125	DC4	DL2		
37	ITT5528J	2	COR	35m	45m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	290m	55	125	DC6	DL2		
38	ITT5528N	2	COR	35m	45m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	290m	55	125	DC6	DL2		
39	ITT55234J	2	COR	35m	45m	1	5.0	TTL	2.4	.40	5.0	5.0	50n	290m	55	125	DC7	DL4b		
40	MC5524L	2	COR	35m	45m	2	6.0	TTL	2.4	.40	5.0	5.0	40n	200m	55	125	DC16	DL17b		
41	MC5528L	2	COR	35m	45m	2	5.0	TTL	2.4	.40	5.0	5.0	40n	200m	55	125	DC17	DL17b		
42	MC5534L	2	COR	35m	45m	2	5.0	TTL	2.4	.40	5.0	5.0	40n	190m	55	125	DC18	DL17b		
43	MC5538L	2	COR	35m	45m	2	5.0	TTL	2.4	.40	5.0	5.0	40n	190m	55	125	DC19	DL17b		
44	SN5524J	2	COR	35m	45m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	300m	55	125	DC4	DL25		
45	SN5528J	2	COR	35m	45m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	300m	55	125	DC6	DL25		
46	SN55232J	2	COR	35m	45m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	300m	55	125	DC7	DL25		
47	SN55234J	2	COR	35m	45m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	300m	55	125	DC7	DL25		
48	SN55238J	2	COR	35m	45m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	300m	55	125	DC8	DL25		
49	7520B	2	COR	36m	44m	2	5.0	TTL	2.4	.40	5.0	5.0	40n	500m	0	70	DC2a	DL4a		
50	7521B	2	COR	36m	44m	2	5.0	TTL	2.4	.40	5.0	5.0	40n	500m	0	70	DC2a	DL4a		
51	7522B	2	COR	36m	44m	2	5.0	TTL	2.4	.40	5.0	5.0	45n	500m	0	70	DC3a	DL4a		
52	7523B	2	COR	36m	44m	2	5.0	TTL	2.4	.40	5.0	5.0	45n	500m	0	70	DC3a	DL4a		
53	7524B	2	COR	36m	44m	2	5.0	TTL	2.4	.40	5.0	5.0	40n	500m	0	70	DC4a	DL4a		
54	7524DC	2	COR	36m	44m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	300m	0	70	DC4	DL17f		
55	7524PC	2	COR	36m	44m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	300m	0	70	DC4	DL52		
56	7525B	2	COR	36m	44m	2	5.0	TTL	2.4	.40	5.0	5.0	40n	500m	0	70	DC4a	DL4a		
57	7528DC	2	COR	36m	44m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	300m	0	70	DC6	DL17f		
58	7528PC	2	COR	36m	44m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	300m	0	70	DC6	DL52		
59	7534DC	2	COR	36m	44m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	280m	0	70	DC26	DL17f		
60	7534PC	2	COR	36m	44m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	280m	0	70	DC26	DL52		
61	7538DC	2	COR	36m	44m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	300m	0	70	DC8	DL17f		
62	7538PC	2	COR	36m	44m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	300m	0	70	DC8	DL52		
63	75224DC	2	COR	36m	44m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	300m	0	70	DC27	DL17f		
64	75224PC	2	COR	36m	44m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	300m	0	70	DC27	DL52		
65	75232DC	2	COR	36m	44m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	300m	0	70	DC7	DL17f		
66	75232PC	2	COR	36m	44m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	300m	0	70	DC7	DL52		
67	75234DC	2	COR	36m	44m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	300m	0	70	DC7	DL17f		
68	75234PC	2	COR	36m	44m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	300m	0	70	DC7	DL52		
69	75238DC	2	COR	36m	44m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	300m	0	70	DC8	DL17f		
70	75238PC	2	COR	36m	44m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	300m	0	70	DC8	DL52		
71	DS5524J	2	COR	36m	44m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	290m	55	125	DC4	DL17d		
72	DS5528J	2	COR	36m	44m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	290m	55	125	DC6	DL17d		
73	DS5534J	2	COR	36m	44m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	280m	55	125	DC7	DL17d		
74	DS5538J	2	COR	36m	44m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	280m	55	125	DC8	DL17d		
75	DS7524J	2	COR	36m	44m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	290m	0	70	DC4	DL17d		
76	DS7524N	2	COR	36m	44m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	290m	0	70	DC4	DL56		
77	DS7528J	2	COR	36m	44m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	290m	0	70	DC6	DL17d		
78	DS7528N	2	COR	36m	44m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	290m	0	70	DC6	DL56		
79	DS7534J	2	COR	36m	44m	1	5.0	TTL	2.4	.40	5.0	5.0	40n	280m	0	70	DC7	DL17d		
80	DS7534N	2	COR</																	

22. SENSE AMPLIFIERS

IN ORDER OF: (1)CKTS/DEV. (2)TYPE OF MEMORY
(3)MIN.INPUT THRESHOLD VOLT. & (4)TYPE No.

LINE No.	TYPE NUMBER	CKTS PER DEV.	TYPE OF MEM-ORY	INPUT THRESHOLD VOLTAGE		No. INP. CHAN. PER CKT.	COMM. MODE FIRING V. P-P (V)	T E C H N I C A L	OUTPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		ADDITIONAL FUNCTIONS AVAILABLE	MAX. PROP. DELAY tpd (s)	MAX. OPERATE. PWR. DISS. (W)	OPER. TEMP.		DRAWINGS	
				3 MIN (V)	MAX. (V)				HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)				(-)	(+)	LOGIC DWG. No.	OUTLINE DWG. No.
																Δ=MO			
1	DS7524AN	2	COR	38m	42m	1	5.0	TTL	2.4	.40	5.0	5.0		40n	290m	0	70	DC4	DL56
2	DS7528AJ	2	COR	38m	42m	1	5.0	TTL	2.4	.40	5.0	5.0		40n	290m	0	70	DC6	DL17d
3	DS7528AN	2	COR	38m	42m	1	5.0	TTL	2.4	.40	5.0	5.0		40n	290m	0	70	DC6	DL56
4	DS7534AJ	2	COR	38m	42m	1	5.0	TTL	2.4	.40	5.0	5.0		40n	280m	0	70	DC7	DL17d
5	DS7534AN	2	COR	38m	42m	1	5.0	TTL	2.4	.40	5.0	5.0		40n	280m	0	70	DC7	DL56
6	DS7538AJ	2	COR	38m	42m	1	5.0	TTL	2.4	.40	5.0	5.0		40n	280m	0	70	DC8	DL17d
7	DS7538AN	2	COR	38m	42m	1	5.0	TTL	2.4	.40	5.0	5.0		40n	280m	0	70	DC8	DL56
8	55207DM	2	MOS	10m	5.0	1	6.0	TTL	2.4	.40	5.0	5.0		35n	225m	55	125	DC1	DL6c
9	55207FM	2	MOS	10m	5.0	1	6.0	TTL	2.4	.40	5.0	5.0		35n	225m	55	125	DC1	TO86
10	55208DM	2	MOS	10m	5.0	1	6.0	TTL	2.4	.40	5.0	5.0		35n	225m	55	125	DC1b	DL16c
11	55208FM	2	MOS	10m	5.0	1	6.0	TTL	2.4	.40	5.0	5.0		35n	225m	55	125	DC1b	TO86
12	75207DC	2	MOS	10m	5.0	1	6.0	TTL	2.4	.40	5.0	5.0		35n	225m	0	70	DC1	DL16c
13	75207PC	2	MOS	10m	5.0	1	6.0	TTL	2.4	.40	5.0	5.0		35n	225m	0	70	DC1	DL68
14	75208DC	2	MOS	10m	5.0	1	6.0	TTL	2.4	.40	5.0	5.0		35n	225m	0	70	DC1b	DL16c
15	75208PC	2	MOS	10m	5.0	1	6.0	TTL	2.4	.40	5.0	5.0		35n	225m	0	70	DC1b	DL68
16	SN75207BJ	2	MOS	10m	5.0	1	6.0	TTL	2.4	.40	5.0	5.0		35n	225m	0	70	DC1a	DL23
17	SN75207BN	2	MOS	10m	5.0	1	6.0	TTL	2.4	.40	5.0	5.0		35n	225m	0	70	DC1a	DL24
18	SN75207J	2	MOS	10m	5.0	1	6.0	TTL	2.4	.40	5.0	5.0		35n	225m	0	70	DC1a	DL23
19	SN75207N	2	MOS	10m	5.0	1	6.0	TTL	2.4	.40	5.0	5.0		35n	225m	0	70	DC1	DL24
20	SN75208BJ	2	MOS	10m	5.0	1	6.0	TTL	2.4	.40	5.0	5.0		35n	225m	0	70	DC1a	DL23
21	SN75208BN	2	MOS	10m	5.0	1	6.0	TTL	2.4	.40	5.0	5.0		35n	225m	0	70	DC1a	DL24
22	SN75208J	2	MOS	10m	5.0	1	6.0	TTL	2.4	.40	5.0	5.0		35n	225m	0	70	DC1	DL23
23	SN75208N	2	MOS	10m	5.0	1	6.0	TTL	2.4	.40	5.0	5.0		35n	225m	0	70	DC1	DL24
24	8T25V	2	MOS	2.0	.80	1	1	TTL	2.8	.40	0.0	5.0	L	25n	210m	0	75	DC31	DL75
25	75S207A	2	MOS	2.0	.80	1	1	TTL	2.7	.50	5.0	5.0		17n	600m	0	70	DC1b	DL3a
26	75S207F	2	MOS	2.0	.80	1	1	TTL	2.7	.50	5.0	5.0		17n	600m	0	70	DC1b	DL16d
27	75S208A	2	MOS	2.0	.80	1	1	TTL	2.7	.50	5.0	5.0		17n	600m	0	70	DC1b	DL3a
28	75S208F	2	MOS	2.0	.80	1	1	TTL	2.7	.50	5.0	5.0		17n	600m	0	70	DC1b	DL16d
29	DS3625N	2	MOS	2.0	.80	1	1	TTL	2.8	.40	0.0	5.0		25n	200m	55	125	DC24	DL53
30	DS7802J	2	MOS	2.0	.80	1	1	TTL	2.4	.40	0.0	5.0		32n	200m	55	125	DC25	DL17d
31	DS7806J	2	MOS	2.0	.80	1	1	TTL	2.4	.40	0.0	5.0		32n	200m	55	125	DC25a	DL16b
32	DS7806W	2	MOS	2.0	.80	1	1	TTL	2.4	.40	0.0	5.0		32n	200m	55	125	DC25a	FP6
33	DS8802J	2	MOS	2.0	.80	1	1	TTL	2.4	.40	0.0	5.0		32n	200m	0	70	DC25	DL17d
34	DS8802N	2	MOS	2.0	.80	1	1	TTL	2.4	.40	0.0	5.0		32n	200m	0	70	DC25	DL56
35	DS8806J	2	MOS	2.0	.80	1	1	TTL	2.4	.40	0.0	5.0		32n	200m	0	70	DC25a	DL16b
36	DS8806N	2	MOS	2.0	.80	1	1	TTL	2.4	.40	0.0	5.0		32n	200m	0	70	DC25a	DL54
37	MC3461L	2	NMS	1.1	1.4	2	2	TTL	.96	1.65	5.2	7.5		10n	450m	0	75	DC20	DL17b
38	HD103461	2	NMS	1.4	1.1	2	2	TTL	.96	1.6	5.2	7.5		10n	724m	0	75	DC20	DL17s
39	HRA16.4	4	ARM	2.0	.80	4	4	TTL			0.0	5.0		300n	150m	0	70	DC30	MD122
40	DS3651J	4	MOS	7.0m	5.0	1	10	TTL	2.4	.40	5.0	5.0		15n	450m	0	70	DC22	DL17d
41	DS3651N	4	MOS	7.0m	5.0	1	10	TTL	2.4	.40	5.0	5.0		15n	450m	0	70	DC22	DL56
42	DS3653J	4	MOS	7.0m	5.0	1	10	TTL	2.4	.40	5.0	5.0		18n	450m	0	70	DC22	DL17d
43	DS3653N	4	MOS	7.0m	5.0	1	10	TTL	2.4	.40	5.0	5.0		18n	450m	0	70	DC22	DL56
44	DS1605J	6	MOS	1.0m	1.5m	1	1	TTL	2.4	.40	0.0	5.0		22n	575m	55	125	DC23	DL17d
45	DS1606J	6	MOS	1.0m	1.5m	1	1	TTL	2.4	.40	0.0	5.0		39n	575m	55	125	DC23	DL17d
46	DS1607J	6	MOS	1.0m	1.5m	1	1	TTL	2.4	.40	0.0	5.0		35n	575m	55	125	DC23	DL17d
47	DS1608J	6	MOS	1.0m	1.5m	1	1	TTL	2.4	.40	0.0	5.0		30n	575m	55	125	DC23	DL17d
48	DS3605J	6	MOS	1.0m	1.5m	1	1	TTL	2.4	.40	0.0	5.0		22n	575m	0	70	DC23	DL17d
49	DS3605N	6	MOS	1.0m	1.5m	1	1	TTL	2.4	.40	0.0	5.0		22n	575m	0	70	DC23	DL56
50	DS3606J	6	MOS	1.0m	1.5m	1	1	TTL	2.4	.40	0.0	5.0		39n	650m	0	70	DC23	DL17d
51	DS3606N	6	MOS	1.0m	1.5m	1	1	TTL	2.4	.40	0.0	5.0		39n	650m	0	70	DC23	DL56
52	DS3607J	6	MOS	1.0m	1.5m	1	1	TTL	2.4	.40	0.0	5.0		35n	650m	0	70	DC23	DL17d
53	DS3607N	6	MOS	1.0m	1.5m	1	1	TTL	2.4	.40	0.0	5.0		35n	650m	0	70	DC23	DL56
54	DS3608J	6	MOS	1.0m	1.5m	1	1	TTL	2.4	.40	0.0	5.0		30n	575m	0	70	DC23	DL17d
55	DS3608N	6	MOS	1.0m	1.5m	1	1	TTL	2.4	.40	0.0	5.0		30n	650m	0	70	DC23	DL56
56	P3408A	6	MOS	140m	200m	1	1	TTL	2.0	.85	0.0	5.0	L	25n	625m	0	70	DC29	DL5a
57	P3208A	6	MOS	150m	200m	1	1	TTL	2.0	.85	0.0	5.0		20n	600m	0	70	DC21	DL5a

23. SAMPLE/HOLD

IN ORDER OF: (1)MIN. P-P INPUT VOLT.
(2)MIN. P-P Vo (3)MAX.ACC.TIME & (4)TYPE No.

LINE No.	TYPE NUMBER	INPUT		OUTPUT				SAMPLE			MODE CNTRL		RATED PWR. SUPPLY SPAN		MAX. OPERATE PWR. DISS.		OPER. TEMP.		DRAWINGS		
		1 MIN. VOLT. P-P (V)	IMPEDANCE (Ω)	2 MIN. VOLT. P-P (V)	MIN. CURR. P-P (A)	SLEW RATE (V/us)	3 MAX. ACQUISITION TIME (s)	MAX. APER @OUTP (%)	SMALL SIGNAL BW (Hz)	HIGH VOLTAGE (min)	LOW VOLTAGE (max)	NEG. (V)	POS. (V)	(-)	(+)	LOGIC DWG. No.	OUTLINE DWG. No.				
														(°C)	(°C)						
1	SHM-HUGC	5.0		5.0			25n	6.0n	50M		15	15							MD19a		
2	SHM-HUMC	5.0		5.0			25n	6.0n	50M		15	15							MD11d		
3	SHM-HUMM	5.0		5.0			25n	6.0n	50M		15	15							MD11d		
4	SHM-HUMR	5.0		5.0			25n	6.0n	50M		15	15							MD11d		
5	ADH-050	5.0	1.0k	6.0	10m	60	120u	5.0	15M	.80t	1.8t	15	15	2.2	55	110		DD46	MD11f		
6	ADH-051	5.0	1.0k	6.0	10m	60	600u	5.0	3.5M	.80t	1.8t	15	15	2.2	55	110		DD46	MD11f		
7	SH85 18-1	5.0	10G	7.0	10m	600	30n	100m	10n	100M		15	15	1.6 t	55	85		DD49	MD11h		
8	SH85 18-3	5.0	10G	7.0	10m	600	30n	100m	10n	100M		15	15	1.6 t	55	85		DD49	MD11h		
9	5032s	10	1.0k*	10 t	50m		20n	30n	20M	2.0	.80	15	15	450m t	55	85		DD41	MD156		
10	VSSH-F-1	10	100G	10	20	300	20n	300p	70			15	15	2.8	55	85		DD28	MD91		
11	VSSH-F-3	10	100G	10	20	300	20n	300p	70			15	15	2.8	55	85		DD28	MD91		
12	5030A	10	1.0k*	10	10m		30n			2.0	.80	15	15	240m t	55	85					
13	SHM-UH	10	100M	10	60m	500	35n	200p	10M			15	15	2.0	55	85		DD15	MD54		
14	VSSH-S-1	10	100G	10	20	200	50n	300p	25			15	15	2.8	55	85		DD28	MD91		
15	VSSH-S-3	10	100G	10	20	200	50n	300p	25			15	15	2.8	55	85		DD28	MD91		
16	5902	10	1.0M*	10	20m		100n	100n	300k	2.0	.40	15	15	270m t	65	125					
17	SH740	10	1.0k*	10 t	10m	200	200n	100m	10n	300M	2.0	.80	15	15	300m t	55	85		DD31	MD106	
18	5893s	10	1.0k*	10 t	3.0m		250n	1.2u	5.0M	2.0	.40	15	15	540m t	55	85		DD42	MD157		
19	5031	10	100G*	10	10m		10u					15	15	300m t	55	85					
20	750	10	100kΔ	10	10m	250m	40u					15	15	2.4	0	70		DD32	MD107		
21	755	10	100kΔ	10	10m	250m	40u					15	15	2.4	0	70		DD32a	MD107		
22	SHM-4	20	100M		10m	5.0	6.0u	50m	45n	200k	2.0	.80	15	15	390m	0	70		DD12	MD52	
23	VADC-150-1	20	10G	5.0	5.0m	500	30n	100m	9.0n	100M		15	15	2.2	55	85		DD50	MD160c		
24	VADC-150-3	20	10G	5.0	5.0m	500	30n	100m	9.0n	100M		15	15	2.2	55	85		DD50	MD160c		
25	5025	20	5.0k*	20	60m	600	30n	30n	3.0n		2.0	.80	15	15	2.7	55	85				
26	SHM-2	20	1.0k*	20	10m	30	200n	100m	10n	10M	2.0	.80	15	15	1.0	0	70		DD10	MD50	
27	SHM-2E	20	1.0k*	20	20m	30	200n	100m	10n	10M	2.0	.80	15	15	1.0	0	70		DD10	MD50	
28	SHM-5	20	100M	20	80m	25	350n	10m	750p	5.0M	2.0	.80	15	15	2.2	0	70		DD13	MD48a	
29	4855	20	100G	20	80m	150	400n	10m	2.0n	6.0M	2.0	.80	15	15	2.7	55	85		DD42	MD154a	
30	A881	20	1.0G*	20	10m	60	500n	10m	5.0n	15M	2.0	.80	15	15	1.5	0	60		DD26	MD89	
31	SHA-2A	20	100G	20	40m	100	500n	10m	10n	1.5M	2.0	.80	15	15	300m	0	70		DD21	MD80	
32	5021	20	100kΔ	20	60m	15	1.0u	3.0n	3.0n		2.0	.80	15	15	900m t	55	85				
33	SH730	20	100M	20	20m	20	1.0u	10m	50n	5.0M	2.0	.80	15	15	900m	0	70		DD30	MD105	
34	SHM60	20	100G	20	40m	25	1.0u	10m	12n	400k	2.0	.80	10	10	400m	0	70		DD5	MD5	
35	SHM-6GC	20		20	1.0u		1.0u	20n	5.0M			15	15		0	70					
36	SHM-6MC	20		20	1.0u		1.0u	20n	5.0M			15	15		0	70					
37	SHM-6MM	20		20	1.0u		1.0u	20n	5.0M			15	15		55	125					
38	SHM-6MR	20		20	1.0u		1.0u	20n	5.0M			15	15		25	85					
39	A880	20	1.0G*	20	40m	40	1.4u	10m	5.0n	10M	3.0	.40	15	15	1.8	55	85		DD25	MD88	
40	4853	20	2.0kΔ	20	15m	30	1.5u	10m	4.0n	20k	2.0	.80	15	15	900m t	0	70		DD40	MD154	
41	MN346	20	3.0k	20	3.0m	50	2.0u	10m	60n	1.4M	2.0	.80	15	15	795m	0	70		DD24a	MD146	
42	MN346H	20	3.0k	20	3.0m	50	2.0u	10m	60n	1.4M	2.0	.80	15	15	795m	55	125		DD24a	MD146	
43	ZD452	20	1.0T	20	2.0m	40	2.0u	10m	5.0n	600k	2.5	.70	18	18	1.0	0	70		DD39a	MD146	
44	MN347	20	3.0k	20	3.0m	50	2.5u	50m	60n	1.4M	2.0	.80	15	15	795m	0	70		DD24a	MD146	
45	MN347H	20	3.0k	20	3.0m	50	2.5u	50m	60n	1.4M	2.0	.80	15	15	795m	55	125		DD24a	MD146	
46	1404	20	10G	20	40m		3.0u	10m	10n	5.0M	2.0	.80	15	15	1.0	0	70		DD37	MD125	
47	1405	20	10G	20	40m		3.0u	10m	10n	5.0M	2.0	.80	15	15	1.0	0	70		DD37	MD125	
48	4856	20	10M	20	20m	5.0	4.0u	100m	50n	70k	2.0	.80	15	15	300m	0	75		DD9	DL78	
49	SHM40	20	100M*	20	6.0m	8.0	4.0u	10m	40n	400k	2.0	.80	15	15	750m	0	70		DD7	MD5a	
50	SHM41	20	100M*	20	20m	10	4.0u	5.0m	40n	500k	2.0	.80	15	15	450m	0	70		DD7	MD5a	
51	SHM-1C-1	20	100M	20	20m	5.0	4.0u	100m	50n	2.0M	2.0	.80	15	15	150m	0	75		DD9	TO116	
52	SHC85	20	100M	20	20m	20	4.5u	15m	30n	2.0M	2.0	.80	15	15	390m	0	70		DD6	MD4a	
53	SHC85ET	20	100M	20	20m	20	4.5u	10m	30n	3.0M	2.0	.80	15	15	390m	55	125		DD6	MD4a	
54	770-715	20	10M*	20	20m		5.0u		50k			22	22								
55	SH725WB	20		20	10m	3.0	5.0u	100n	1.0M	2.0	.80	15	15	300m t	0	70		DD29a	MD104		
56	SHAIA	20	1.0T	20	20m	4.0	5.0u	10m	40n	500k	2.0	.80	15	15	375m	0	70		DD20	MD75b	
57	SHM-1	20	100MΔ	20	10m	30	5.0u	25m	50n			15	15	600m	0	70		DD8	MD49		
58	191	20	1.0G	20	10m	5.0	10u	10m	50n	500k	2.0	.80	15	15	600m	25	85		DD16	MD66	
59	LH0053G	20	9.0k	20	10m	20	10u	200m	25n	200k	4.5	.50	15	15	540m	55	125		DD36	CN1c	
60	MN343	20	3.0k	20	6.0m	3.0	10u	10m	100n	80k	2.0	.80	15	15	435m	0	70		DD24	MD146	
61	MN343H	20	3.0k	20	6.0m	3.0	10u	10m	100n	80k	2.0	.80	15	15	435m	55	125		DD24	MD146	
62	MN344	20	3.0k	20	6.0m	3.0	10u	50m	100n	80k	2.0	.80	15	15	435m	0	70		DD24	MD146	
63	MN344H	20	3.0k	20	6.0m	3.0	10u	50m	100n	80k	2.0	.80	15	15	435m	55	125		DD24	MD146	
64	MSSH-01	20	40k*	20	20m		10u	100n		2.0	.80	15	15	900m	55	85		DD27	MD90		
65	MSSH-02	20	40k*	20	20m		10u	100n		2.0	.80	15	15	900m	55	85		DD27	MD90		
66	MSSH-05	20	40k*	20	20m		10u	100n		2.0	.80	15	15	900m	55	85		DD27	MD90		
67	SH725LH	20		20	10m	1.5	10u	100n	400k	2.0	.80	15	15	300m t	0	70		DD29	MD104		
68	SHC80BM	20	100M	20	10m	5.0	10u	10m	40n	750k	5.5	3.5	15	15	600m	25	85		DD4	MD4	
69	SHC80KP	20	100M	20	10m	5.0	10u	10m	40n	750k	2.0	.80	15	15	600m	0	70		DD4	MD3	
70	LH0053CG	20	9.0k	20	10m	20	15u	300m	25n	200k	4.5	.50	15	15	540m	25	85		DD36	CN1c	
71	ZD451	20	1.0T	20	2.0m	2.0	15u	20m	50n	20k	2.5	.70	18	18	504m	0	70		DD39	MD143	
72	4854	20	1.0G	20	10m	1.5	18u	10m	10n	30k	2.0	.80	15	15	600m t	0	70		DD41	MD154	
73	4013-1/25	20	10k	20	40m		20u	50m	100n	50k	2.0	.50	15	15	540m	0	60		DD2	MD2	
74	4013/25	20	10k	20	40m		20u	50m	100n	50k	2.										

24. SCHMITT TRIGGERS

IN ORDER OF: (1)HYSTERESIS VOLT.
(2)-GOING INP.THRSV.(3)CKTS/DEV &(4)TYPE No

LINE No.	TYPE NUMBER	HYST-ERES VOLT. (V)	INPUT THRESHOLD VOLT			3 CKTS PER DEV.	LOGIC CODE	NOISE IMMUN -ITY (V)	MAX. PROP. DELAY tpd (s)	T E C H N	OUTPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS	
			2 POS. GOING (V)	NEG. GOING (V)	MAX. CURR (A)						HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)		(-) (°C)	(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No. Δ=Mo
1▼	MCC102-1	190m	1.6	1.4	5.0n	1	NIV		2.0u	TTL			0.0	2.7	10m	20	70	DE18	DL27c
2▼	MCC102 #1	190m	1.6	1.4	50n	1	NIV		2.0u	TTL			0.0	2.7	27m	20	70	DE17	T072
3▼	MCC102 #2	190m	1.6	1.4	50n	1	NIV		2.0u	TTL			0.0	2.7	27m	20	70	DE17a	DL27c
4▼	MCC9041	190m	1.6	1.4	50n	1	NIV		2.0u	TTL			0.0	2.7	27m	20	70	DE23	CHZ
5▼	MCC122	245m	2.1	1.8	50n	2	NIV		2.0u	TTL			0.0	3.5	140m	20	70	DE19	DL27c
6#	SFC4132E	300m	1.4	1.1	1.0m	4	NAND	300m	35n	TTL	2.4	40	0.0	5.0	360m	55	125	DE12	TO116
7#	SFC4132EM	300m	1.4	1.1	1.0m	4	NAND	300m	35n	TTL	2.4	40	0.0	5.0	360m	55	85	DE12	TO116
8#	SFC4132ET	300m	1.4	1.1	1.0m	4	NAND	300m	35n	TTL	2.4	40	0.0	5.0	360m	55	125	DE12	TO116
9#	SFC4132JM	300m	1.4	1.1	1.0m	4	NAND	300m	35n	TTL	2.4	40	0.0	5.0	360m	55	125	DE12	TO116
10#	SFC4132KM	300m	1.4	1.1	1.0m	4	NAND	300m	35n	TTL	2.4	40	0.0	5.0	360m	55	125	DE12	TO116
11#	SFC4132PM	300m	1.4	1.1	1.0m	4	NAND	300m	35n	TTL	2.4	40	0.0	5.0	360m	55	125	DE12	TO85
12#	ULN3303M	420m	3.7	3.3	50n	1	NIIV		2.0u	TTL			0.0	5.0	80m	40	100	DE1	DL8
13▼	ULN3304M	420m	3.7	3.3	50n	1	NIV		2.0u	TTL			0.0	5.0	80m	40	100	DE2	DL8
14▼	ULN3305M	420m	3.7	3.3	50n	2	NIIV		2.0u	TTL			0.0	6.0	150m	40	100	DE16	DL8
15▼	ULN3306M	420m	3.7	3.3	50n	2	NIV		2.0u	TTL			0.0	6.0	150m	40	100	DE16a	DL8
16▼	MCC560	500m	2.9	1.4	1.0m	1	NIV			TTL			0.0	4.5	120m	0	60	DE20	T072
17▼	MCC9016	500m	2.9	1.4	1.0m	1	NIV			TTL			0.0	4.5	120m	0	60	DE22	CHZ
18	SN54S132J	550m	1.7	1.2	1.0m	4	NAND		13n	TTL	2.5	50	0.0	5.0	340m	55	125	DE6	DL23
19	SN54S132W	550m	1.7	1.2	1.0m	4	NAND		13n	TTL	2.5	50	0.0	5.0	340m	55	125	DE6	Δ004AA
20	SN74S132J	550m	1.7	1.2	1.0m	4	NAND		13n	TTL	2.7	50	0.0	5.0	340m	0	70	DE6	DL23
21	SN74S132N	550m	1.7	1.2	1.0m	4	NAND		13n	TTL	2.7	50	0.0	5.0	340m	0	70	DE6	DL24
22	MC14093BAL	650m	8.6	8.0	100u	4	NAND	6.7	250n	CMS	14.9	05	0.0	15	15u+	55	125	DE7	DL16a
23	MC14093BCL	650m	8.6	8.0	300u	4	NAND	6.7	250n	CMS	14.9	05	0.0	15	60u+	40	85	DE7	DL16a
24	MC14093BCL	650m	8.6	8.0	300u	4	NAND	6.7	250n	CMS	14.9	05	0.0	15	60u+	40	85	DE7	DL19
25▼	ITT74LS13N	800m	1.6	.80	180nt	2	NAND		27n	TTL	2.7	50	0.0	5.0	35m	0	70	DE4	DL3c
26	54LS132DM	800m	1.6	.80		4	NAND	500m	20n	TTL	2.5	40	0.0	5.0	70m	55	125	DE11	DL16c
27	54LS132EM	800m	1.6	.80		4	NAND	500m	20n	TTL	2.5	40	0.0	5.0	70m	55	125	DE11	TO86
28	74LS132DC	800m	1.6	.80		4	NAND	500m	20n	TTL	2.7	40	0.0	5.0	70m	0	75	DE11	DL16c
29	74LS132FC	800m	1.6	.80		4	NAND	500m	20n	TTL	2.7	40	0.0	5.0	70m	0	75	DE11	TO86
30	74LS132PC	800m	1.6	.80		4	NAND	500m	20n	TTL	2.7	40	0.0	5.0	70m	0	75	DE11	DL68
31	54LS14DM	800m	1.6	.80		6	INV	500m	20n	TTL	2.5	40	0.0	5.0	105m	55	125	DE10a	DL16c
32	54LS14FM	800m	1.6	.80		6	INV	500m	20n	TTL	2.5	40	0.0	5.0	105m	55	125	DE10a	TO86
33	54LS14DC	800m	1.6	.80		6	INV	500m	20n	TTL	2.7	40	0.0	5.0	105m	0	75	DE10a	DL16c
34	74LS14FC	800m	1.6	.80		6	INV	500m	20n	TTL	2.7	40	0.0	5.0	105m	0	75	DE10a	TO86
35	74LS14PC	800m	1.6	.80		6	INV	500m	20n	TTL	2.7	40	0.0	5.0	105m	0	75	DE10a	DL68
36▼	ITT74LS14N	800m	1.6	.80	180nt	6	INV		22n	TTL	2.7	50	0.0	5.0	105m	0	70	DE5	DL3c
37#	FLH351-7413	800m	1.7	.90	1.0m	2	NAND	1.1	27n	TTL	2.4	40	0.0	5.0	160m	0	70	DE4	DL24d
38#	FLH355-8413	800m	1.7	.90	1.0m	2	NAND	1.1	27n	TTL	2.4	40	0.0	5.0	160m	25	85	DE4	DL24d
39#	ITTS413J	800m	1.7	.90	850nt	2	NAND		35n	TTL	2.4	40	0.0	5.0	180m	55	125	DE4	DL3d
40▼	ITT7413J	800m	1.7	.90	850nt	2	NAND		35n	TTL	2.4	40	0.0	5.0	180m	0	70	DE4	DL3d
41▼	ITT7413N	800m	1.7	.90	850nt	2	NAND		35n	TTL	2.4	40	0.0	5.0	180m	0	70	DE4	DL3c
42#	M53213P	800m	1.7	.90	1.6m	2	NAND		27n	TTL	2.4	40	0.0	5.0	160m	0	75	DE4	TO116
43#	MIC5413J	800m	1.7	.90	1.6m	2	NAND	400m	35n	TTL	2.0	80	0.0	5.0	180m	0	75	DE4	DL59a
44#	MIC7413J	800m	1.7	.90	1.6m	2	NAND	400m	35n	TTL	2.0	80	0.0	5.0	180m	0	75	DE4	DL59a
45#	MIC7413N	800m	1.7	.90	1.6m	2	NAND	400m	35n	TTL	2.0	80	0.0	5.0	180m	0	75	DE4	DL24c
46	N7413A	800m	1.7	.90	1.0m	2	NAND	400m	27n	TTL	2.4	40	0.0	5.0	160m	0	70	DE4	DL3
47	N7413F	800m	1.7	.90	1.0m	2	NAND	400m	27n	TTL	2.4	40	0.0	5.0	160m	0	70	DE4	DL16d
48	S5413F	800m	1.7	.90	1.0m	2	NAND	400m	27n	TTL	2.4	40	0.0	5.0	160m	55	125	DE4	DL16d
49	S5413W	800m	1.7	.90	1.0m	2	NAND	400m	27n	TTL	2.4	40	0.0	5.0	160m	55	125	DE4	FP14
50	SN54LS13J	800m	1.7	.90	1.0m	2	NAND		27n	TTL	2.5	40	0.0	5.0	35m	55	125	DE10	DL23
51▲	SN54LS13W	800m	1.7	.90	1.0m	2	NAND		27n	TTL	2.5	40	0.0	5.0	35m	55	125	DE10	Δ004AA
52	SN74LS13J	800m	1.7	.90	1.0m	2	NAND		27n	TTL	2.7	50	0.0	5.0	35m	0	70	DE10	DL23
53	SN74LS13N	800m	1.7	.90	1.0m	2	NAND		27n	TTL	2.7	50	0.0	5.0	35m	0	70	DE10	DL24
54	SN5413J	800m	1.7	.90	1.0m	2	NAND		27n	TTL	2.4	40	0.0	5.0	160m	55	125	DE4	DL23
55	SN5413W	800m	1.7	.90	1.0m	2	NAND		27n	TTL	2.4	40	0.0	5.0	160m	55	125	DE4	Δ004AA
56	SN7413J	800m	1.7	.90	1.0m	2	NAND		27n	TTL	2.4	40	0.0	5.0	160m	0	70	DE4	DL23
57	SN7413N	800m	1.7	.90	1.0m	2	NAND		27n	TTL	2.4	40	0.0	5.0	160m	0	70	DE4	DL24
58#	TL7413N	800m	1.7	.90	1.0m	2	NAND		27n	TTL	2.4	40	0.0	5.0	160m	0	70	DE4	DL2
59#	FLH601-74132	800m	1.7	.90	1.0m	4	NAND	1.1	27n	TTL	2.4	40	0.0	5.0	200m	0	70	DE5a	DL24d
60#	FLH605-84132	800m	1.7	.90	1.0m	4	NAND	1.1	27n	TTL	2.4	40	0.0	5.0	200m	25	85	DE5a	DL24d
61#	M53332P	800m	1.7	.90	1.2m	4	NAND		22n	TTL	2.4	40	0.0	5.0	200m	0	75	DE5a	TO116
62▼	MIC54135J	800m	1.7	.90	97ut	4	NAND	700m	37n	TTL	2.4	40	0.0	5.0	90m	55	125	DE5a	TO116
63▼	MIC74135J	800m	1.7	.90	97ut	4	NAND	700m	37n	TTL	2.4	40	0.0	5.0	90m	0	75	DE5a	TO116
64▼	MIC74135N	800m	1.7	.90	97ut	4	NAND	700m	37n	TTL	2.4	40	0.0	5.0	90m	0	75	DE5a	TO116
65	N74132A	800m	1.7	.90	1.0m	4	NAND	400m	22n	TTL	2.4	40	0.0	5.0	200m	0	70	DE5a	DL3a
66	N74132F	800m	1.7	.90	1.0m	4	NAND	400m	22n	TTL	2.4	40	0.0	5.0	200m	0	70	DE5a	DL16d
67	N74232A	800m	1.7	.90	1.0m	4	NOR	400m	22n	TTL	2.4	40	0.0	5.0	220m	0	70	DE13	DL3a
68	S54132F	800m	1.7	.90	1.0m	4	NAND	400m	22n	TTL	2.4	40	0.0	5.0	200m	55	125	DE5a	DL16d
69	S54132W	800m	1.7	.90	1.0m	4	NAND	400m	22n	TTL	2.4	40	0.0	5.0	200m	55	125	DE5a	FP14
70	S54232F	800m	1.7	.90	1.0m	4	NOR	400m	22n	TTL	2.4	40	0.0	5.0	220m	55	125	DE13	DL16d
71	S54232W	800m	1.7	.90	1.0m	4	NOR	400m	22n	TTL	2.4	40	0.0	5.0	220m	55	125	DE13	FP14
72	SN54LS132J	800m	1.7	.90	1.0m	4	NAND		22n	TTL	2.5	40	0.0	5.0	70m	55	125	DE11	DL23
73	SN54LS132W	800m	1.7	.90	1.0m	4	NAND		22n	TTL	2.5	40	0.0	5.0	70m	55	125	DE11	Δ004AG
74	SN74LS132J	800m	1.7	.90	1.0m	4	NAND		22n	TTL	2.7	50	0.0	5.0	70m	0	70	DE11	DL23
75	SN74LS132N	800m	1.7	.90	1.0m	4	NAND		22n	TTL	2.7								

24. SCHMITT TRIGGERS

IN ORDER OF: (1)HYSTERESIS VOLT.
(2)+GOING INP.THR.V.(3)CKTS/DEV &(4)TYPE No

LINE No.	TYPE NUMBER	HYST. RES. VOLT. (V)	INPUT THRESHOLD VOLT			CKTS PER DEV.	LOGIC CODE	NOISE IMMUNITY (V)	MAX. PROP. DELAY tpd (s)	T E C H N	OUTPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS	
			2 POS. GOING (V)	NEG. GOING (V)	MAX. CURR. (A)						HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)		(-) (°C)	(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO
1▼	JANM38510/15	103BCB	2.0Δ	.60*	100u	4	NAND		40n	TTL	2.4	.40	0.0	5.5	220m	55	125	DE25	DL98
2▼	JANM38510/15	103BDA	2.0Δ	.60*	100u	4	NAND		40n	TTL	2.4	.40	0.0	5.5	220m	55	125	DE25	FP27
3▼	JANM38510/15	103BDB	2.0Δ	.60*	100u	4	NAND		40n	TTL	2.4	.40	0.0	5.5	220m	55	125	DE25	FP27
4▼	JANM38510/15	103CCA	2.0Δ	.60*	100u	4	NAND		40n	TTL	2.4	.40	0.0	5.5	220m	55	125	DE25	DL98
5▼	JANM38510/15	103CCB	2.0Δ	.60*	100u	4	NAND		40n	TTL	2.4	.40	0.0	5.5	220m	55	125	DE25	DL98
6▼	JANM38510/15	103CDA	2.0Δ	.60*	100u	4	NAND		40n	TTL	2.4	.40	0.0	5.5	220m	55	125	DE25	FP27
7▼	JANM38510/15	103CDB	2.0Δ	.60*	100u	4	NAND		40n	TTL	2.4	.40	0.0	5.5	220m	55	125	DE25	FP27
8▼	JANM38510/15	102BAA	2.0Δ	.60*	100u	6	INV		40n	TTL	2.4	.40	0.0	5.5	330m	55	125	DE24	FP26
9▼	JANM38510/15	102BAB	2.0Δ	.60*	100u	6	INV		40n	TTL	2.4	.40	0.0	5.5	330m	55	125	DE24	FP26
10▼	JANM38510/15	102BAC	2.0Δ	.60*	100u	6	INV		40n	TTL	2.4	.40	0.0	5.5	330m	55	125	DE24	FP26
11▼	JANM38510/15	102BCA	2.0Δ	.60*	100u	6	INV		40n	TTL	2.4	.40	0.0	5.5	330m	55	125	DE24	DL98
12▼	JANM38510/15	102BCB	2.0Δ	.60*	100u	6	INV		40n	TTL	2.4	.40	0.0	5.5	330m	55	125	DE24	DL98
13▼	JANM38510/15	102BDA	2.0Δ	.60*	100u	6	INV		40n	TTL	2.4	.40	0.0	5.5	330m	55	125	DE24	FP27
14▼	JANM38510/15	102BDB	2.0Δ	.60*	100u	6	INV		40n	TTL	2.4	.40	0.0	5.5	330m	55	125	DE24	FP27
15▼	JANM38510/15	102CAA	2.0Δ	.60*	100u	6	INV		40n	TTL	2.4	.40	0.0	5.5	330m	55	125	DE24	FP26
16▼	JANM38510/15	102CAB	2.0Δ	.60*	100u	6	INV		40n	TTL	2.4	.40	0.0	5.5	330m	55	125	DE24	FP26
17▼	JANM38510/15	102CAC	2.0Δ	.60*	100u	6	INV		40n	TTL	2.4	.40	0.0	5.5	330m	55	125	DE24	FP26
18▼	JANM38510/15	102CCA	2.0Δ	.60*	100u	6	INV		40n	TTL	2.4	.40	0.0	5.5	330m	55	125	DE24	DL98
19▼	JANM38510/15	102CCB	2.0Δ	.60*	100u	6	INV		40n	TTL	2.4	.40	0.0	5.5	330m	55	125	DE24	DL98
20▼	JANM38510/15	102CDA	2.0Δ	.60*	100u	6	INV		40n	TTL	2.4	.40	0.0	5.5	330m	55	125	DE24	FP27
21▼	JANM38510/15	102CDB	2.0Δ	.60*	100u	6	INV		40n	TTL	2.4	.40	0.0	5.5	330m	55	125	DE24	FP27
22▼#	FZH241	900m	6.5	5.6		2	NAND		310n	DTL	7.5	4.5	0.0	12	151m	0	70	DE15	DL96c
23▼#	FZH245	900m	6.5	5.6		2	NAND		310n	DTL	7.5	4.5	0.0	12	151m	25	85	DE15	DL96c
24	MC14584BAL	1.1	8.0	6.9	100n	6	INV	6.7	250n	CMS	14.9	.05	0.0	15	15u	55	125	DE8	DL16a
25	MC14584BCL	1.1	8.0	6.9	300n	6	INV	6.7	250n	CMS	14.9	.05	0.0	15	60u	40	85	DE8	DL16a
26	MC14584BCP	1.1	8.0	6.9	300n	6	INV	6.7	250n	CMS	14.9	.05	0.0	15	60u	40	85	DE8	DL29
27	MC14583BAL	1.4	8.2	6.8	100n	2	NIIV	6.7	2.7u	CMS	14.9	.05	0.0	15	3.0u	55	125	DE9	DL17a
28	MC14583BCL	1.4	8.2	6.8	300n	2	NIIV	6.7	2.7u	CMS	14.9	.05	0.0	15	60u	40	85	DE9	DL17a
29	MC14583BCP	1.4	8.2	6.8	300n	2	NIIV	6.7	2.7u	CMS	14.9	.05	0.0	15	60u	40	85	DE9	DL17a
30▼#	HEF4093P	2.0	5.9	3.9		4	NAND	4.5	40n	CMS	9.99	.01	0.0	10	400m	40	85	DE7	DL3e
31▼	CD4093BD	3.5	9.4	7.3	100n	4	NAND		240n	CMS	14.9	.05	0.0	15	500m	55	125	DE14	Δ001AD
32▼	CD4093BE	3.5	9.4	7.3	100n	4	NAND		240n	CMS	14.9	.05	0.0	15	500m	40	85	DE14	Δ001AB
33▼	CD4093BF	3.5	9.4	7.3	100n	4	NAND		240n	CMS	14.9	.05	0.0	15	500m	55	125	DE14	Δ001AB
34▼	CD4093BH	3.5	9.4	7.3	100n	4	NAND		240n	CMS	14.9	.05	0.0	15	55	125	DE14	CH8aa	
35▼	CD4093BK	3.5	9.4	7.3	100n	4	NAND		240n	CMS	14.9	.05	0.0	15	500m	55	125	DE14	Δ004AF
36	367AJ	4.5	6.5Δ	5.0*	1.5m	4	NAND	5.5	360n	DTL	13	1.8	0.0	15	810m	30	70	DE3	DL15
37	367AL	4.5	6.5Δ	5.0*	1.5m	4	NAND	5.5	360n	DTL	13	1.8	0.0	15	810m	30	70	DE3	DL17
38	367BL	4.5	6.5Δ	5.0*	1.0m	4	NAND	5.5	360n	DTL	10	1.5	0.0	12	432m	55	125	DE3	DL17
39	367CJ	4.5	6.5Δ	5.0*	1.0m	4	NAND	5.5	360n	DTL	10	1.5	0.0	12	432m	30	85	DE3	DL15
40	367CL	4.5	6.5Δ	5.0*	1.0m	4	NAND	5.5	360n	DTL	10	1.5	0.0	12	432m	30	85	DE3	DL17
41	367ML	4.5	6.5Δ	5.0*	1.0m	4	NAND	5.5	360n	DTL	13	1.8	0.0	15	810m	55	125	DE3	DL17
42	368AJ	4.5	6.5Δ	5.0*	1.5m	4	NAND	5.5	600n	DTL	13	1.8	0.0	15	750m	30	70	DE3a	DL15
43	368AL	4.5	6.5Δ	5.0*	1.5m	4	NAND	5.5	600n	DTL	13	1.8	0.0	15	750m	30	70	DE3a	DL17
44	368BL	4.5	6.5Δ	5.0*	1.0m	4	NAND	5.5	600n	DTL	10	1.5	0.0	12	396m	55	125	DE3a	DL17
45	368CJ	4.5	6.5Δ	5.0*	1.0m	4	NAND	5.5	600n	DTL	10	1.5	0.0	12	396m	30	85	DE3a	DL15
46	368CL	4.5	6.5Δ	5.0*	1.0m	4	NAND	5.5	600n	DTL	10	1.5	0.0	12	396m	30	85	DE3a	DL17
47	368ML	4.5	6.5Δ	5.0*	1.0m	4	NAND	5.5	600n	DTL	13	1.8	0.0	15	750m	55	125	DE3a	DL17
48	HD1-54C14	5.0	10	5.0		6	INV	700m	400n	CMS	9.0	1.0	0.0	15	225u	55	125	DE5	DL45b
49	HD1-74C14	5.0	10	5.0		6	INV	700m	400n	CMS	9.0	1.0	0.0	15	225u	40	85	DE5	DL45b
50	HD9-54C14	5.0	10	5.0		6	INV	700m	400n	CMS	9.0	1.0	0.0	15	225u	55	125	DE5	T086
51	HD9-74C14	5.0	10	5.0		6	INV	700m	400n	CMS	9.0	1.0	0.0	15	225u	40	85	DE5	T088

25. SPECIAL DEVICES

IN ORDER OF: (1)TYPE CODE &(2)TYPE NUMBER

LINE No.	TYPE NUMBER	TYPE CODE	TECHN	INPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		GENERAL DESCRIPTION	DRAWINGS	
				HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)		(-) (°C)	(+) (°C)		LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO
1▼	CD4532BD	1	CMS	11	4.0	0.0	15	500m	55	125	8 Input,3 Output,tpd45ns Typ	E1-4	Δ001AE
2▼	CD4532BE	1	CMS	11	4.0	0.0	15	500m	40	85	8 Input,3 Output,tpd45ns Typ	E1-4	Δ001AC
3▼	CD4532BF	1	CMS	11	4.0	0.0	15	500m	55	125	8 Input,3 Output,tpd45ns Typ	E1-4	Δ001AC
4▼	CD4532BH	1	CMS	11	4.0	0.0	15	500m	55	125	8 Input,3 Output,tpd45ns Typ	E1-4	CH8ac
5▼	CD4532BK	1	CMS	11	4.0	0.0	15	500m	55	125	8 Input,3 Output,tpd45ns Typ	E1-4	Δ004AG
6▼	MC8318L	1	TTL	1.8†	.85†	0.0	5.0	225m†	0	75	8 inp,3 out,VOH 2.4min,VOL .45max	E1-6	DL17b
7▼	MC8318P	1	TTL	1.8†	.85†	0.0	5.0	225m†	0	75	8 inp,3 out,VOH 2.4min,VOL .45max	E1-6	DL30
8▼	MC9318L	1	TTL	1.7†	.90†	0.0	5.0	225m†	55	125	8 inp,3 out,VOH 2.4min,VOL .40max	E1-6	DL17b
9▼	MC10165P	1	ECL	-1.8†	-1.8†	5.2	0.0	681m	30	85	8-Input,VolH min .96v,Vol max 1.65v	E1-1	DL17b
10	MC10165P	1	ECL	-1.8†	-1.8†	5.2	0.0	681m	30	85	8-Input,VolH min .96v,Vol max 1.65v	E1-1	DL30
11	N74147B	1	TTL	2.0	.80	0.0	5.0	350m	0	70	10 Line To 4 Line;Tpd 19ns max	E1-2	DL4a
12	N74147B	1	TTL	2.0	.80	0.0	5.0	350m	0	70	10 Line To 4 Line;Tpd 19ns max	E1-2	DL17h
13	N74148B	1	TTL	2.0	.80	0.0	5.0	300m	0	70	8 Line To 8 Line;Tpd 21ns max	E1-3	DL4a
14	N74148F	1	TTL	2.0	.80	0.0	5.0	300m	0	70	8 Line To 8 Line;Tpd 21ns max	E1-3	DL17h
15	S54147F	1	TTL	2.0	.80	0.0	5.0	350m	55	125	10 Line To 4 Line;Tpd 19ns max	E1-2	DL17h
16	S54147W	1	TTL	2.0	.80	0.0	5.0	350m	55	125	10 Line To 4 Line;Tpd 19ns max	E1-2	FP15
17	S54148F	1	TTL	2.0	.80	0.0	5.0	300m	55	125	8 Line To 8 Line;Tpd 21ns max	E1-3	DL17h
18	S54148W	1	TTL	2.0	.80	0.0	5.0	300m	55	125	8 Line To 8 Line;Tpd 21ns max	E1-3	FP15
19#	SFCA148E	1	TTL	2.0	.80	0.0	5.25	420m	0	70	8 input,3 output,tpd 40ns max	E1-3	DL47a
20#	SFCA148E	1	TTL	2.0	.80	0.0	5.5	440m	55	125	8 input,3 output,tpd 40ns max	E1-3	DL47a
21#	SFCA148E	1	TTL	2.0	.80	0.0	5.25	420m	25	85	8 input,3 output,tpd 40ns max	E1-3	DL47a
22#	SFCA148JM	1	TTL	2.0	.80	0.0	5.5	440m	55	125	8 input,3 output,tpd 40ns max	E1-3	DL46
23#	SFCA148KM	1	TTL	2.0	.80	0.0	5.5	440m	55	125	8 input,3 output,tpd 40ns max	E1-3	DL47a
24#	SFCA148JM	1	TTL	2.0	.70	0.0	5.0	100m	55	125	10 Line To 4 Line,tpd 36ns max	E1-5	DL25
25	SN54LS147W	1	TTL	2.0	.70	0.0	5.0	100m	55	125	10 Line To 4 Line,tpd 36ns max	E1-5	Δ004AG
26	SN54LS148J	1	TTL	2.0	.70	0.0	5.0	100m	55	125	8 Line To 3 Line,tpd 36ns max	E1-3	DL25
27	SN54LS148W	1	TTL	2.0	.70	0.0	5.0	100m	55	125	8 Line To 3 Line,tpd 36ns max	E1-3	Δ004AG
28	SN54LS348J	1	TTL	2.0	.70	0.0	5.0	125m	55	125	8 Line To 3 Line,tpd 36ns max	E1-7	DL25
29	SN54LS348W	1	TTL	2.0	.70	0.0	5.0	125m	55	125	8 Line To 3 Line,tpd 36ns max	E1-7	Δ004AG
30	SN74ALS147J	1	TTL	2.0	.80	0.0	5.0	100m	0	70	10 Line To 4 Line,tpd 36ns max	E1-5	DL26
31	SN74ALS147N	1	TTL	2.0	.80	0.0	5.0	100m	0	70	10 Line To 4 Line,tpd 36ns max	E1-5	DL26
32	SN74ALS148J	1	TTL	2.0	.80	0.0	5.0	100m	0	70	8 Line To 3 Line,tpd 36ns max	E1-3	DL25
33	SN74ALS148N	1	TTL	2.0	.80	0.0	5.0	100m	0	70	8 Line To 3 Line,tpd 36ns max	E1-3	DL25
34	SN74ALS348J	1	TTL	2.0	.80	0.0	5.0	125m	0	70	8 Line To 3 Line,tpd 36ns max	E1-7	DL25
35	SN74ALS348N	1	TTL	2.0	.80	0.0	5.0	125m	0	70	8 Line To 3 Line,tpd 36ns max	E1-7	DL26
36	SN54147J	1	TTL	2.0	.80	0.0	5.0	350m	55	125	10 Line To 4 Line;tpd 19ns max	E1-5	DL25
37	SN54147W	1	TTL	2.0	.80	0.0	5.0	350m	55	125	10 Line To 4 Line;tpd 19ns max	E1-5	Δ004AG
38	SN54148J	1	TTL	2.0	.80	0.0	5.0	350m	55	125	8 Line To 3 Line;tpd 30ns max	E1-3	DL25
39	SN54148W	1	TTL	2.0	.80	0.0	5.0	350m	55	125	8 Line To 3 Line;tpd 30ns max	E1-3	Δ004AG
40	SN54278J	1	TTL	2.0	.80	0.0	5.0	400m	55	125	8 Bit Cascadable Priority Registers	E1-8	DL23
41	SN54278W	1	TTL	2.0	.80	0.0	5.0	400m	55	125	8 Bit Cascadable Priority Registers	E1-8	Δ004AA
42	SN74147J	1	TTL	2.0	.80	0.0	5.0	350m	0	70	10 Line To 4 Line;tpd 19ns max	E1-5	DL25
43	SN74147N	1	TTL	2.0	.80	0.0	5.0	350m	0	70	10 Line To 4 Line;tpd 19ns max	E1-5	DL26
44	SN74148J	1	TTL	2.0	.80	0.0	5.0	350m	0	70	8 Line To 3 Line;tpd 30ns max	E1-3	DL25
45	SN74148N	1	TTL	2.0	.80	0.0	5.0	350m	0	70	8 Line To 3 Line;tpd 30ns max	E1-3	DL26
46	SN74278J	1	TTL	2.0	.80	0.0	5.0	400m	0	70	8 Bit Cascadable Priority Registers	E1-8	DL23
47	SN74278N	1	TTL	2.0	.80	0.0	5.0	400m	0	70	8 Bit Cascadable Priority Registers	E1-8	DL24
48#	UPB74147C	1	TTL	2.0	.80	0.0	5.0	225m†	0	70	10 Line To 4 Line;tpd 10ns typ	E1-5	Δ001AC
49#	UPB74148C	1	TTL	2.0	.80	0.0	5.0	190m†	0	70	8 Line To 3 Line;tpd 10ns typ	E1-3	Δ001AC
50	AY5-1012	2	PMS	3.5	.80	12	5.0	224m†	0	70	Full Duplex;20k Baud;(320kHz Clock)/min	E2-5	DL90a
51	S1757	2	MOS	4.0	.50	19	30	370m	0	70	Clock Freq: 160kHz max;td:DL 200ns max	E2-3	DL107
52	S1883	2	MOS	4.0	.80	20	30	630m	0	70	Clock Freq: 200kHz max;tCDS, DH 200ns max	E2-4	DL107
53	TR1863A	2	TTL	2.4	.60	5.0	175m	0	70	Clock Freq: 1.0MHz max;tpd 250ns max	E2-1	DL90	
54	TR1863B	2	TTL	2.4	.60	5.0	175m	0	70	Clock Freq: 1.0MHz max;tpd 250ns max	E2-1	DL91	
55	UC1671B	2	TTL	2.4	.80	5.0	12	525m	0	70	Imp. Outp Leakage Cur: 10uAmax	E2-2	DL90
56	DAS400	3	HYB	15	15	15	15	1.6	0	70	8 Channel;Acc.025%;Thruput Rate 30 kHz	E3-11	PC7
57	DAS401	3	HYB	15	15	15	15	1.6	0	70	8 Channel;Acc.060%;Thruput Rate 50 kHz	E3-11	PC7
58	DAS450	3	HYB	2.0	.80	15	15	5.9	0	70	2 PCB 16 Channel;Linear± 1/2LSB;Acc.0.13%	E3-12	PC8
59	DAS450HP	3	HYB	2.0	.80	15	15	5.9	0	70	2 PCB 16 Channel;Linear± 1/2LSB;Acc.0.13%	E3-12	PC8
60	DAS-250	3	TTL	15	15	15	15	1.5	0	70	16 Chan,12 Bit;10V±5V Inp;Acc Time: 2.0us	E3-1	PC8
61	DV600	3	CMS	15	0.0	0.0	15	15	0	70	Deltaverta Sys Clock:2.0kHz to 150kHz		MD142
62	DV610	3	CMS	4.5	1.0	15	15	225m†	0	70	Deltaverta Sys Encoder;0 to 10 Volts Inp		MD138
63	DV611	3	CMS	4.5	1.0	15	15	225m†	0	70	Deltaverta Sys Decoder;0 to 10 Volts Inp		MD138c
64	HDAS-8MC	3	TTL	15	15	15	15	1.5	0	70	8 Chan,12 Bit;±10V Diff Inp;Acc Time 10us		
65	HDAS-8MM	3	TTL	15	15	15	15	1.5	100	8 Chan,12 Bit;±10V Diff Inp;Acc Time 10us			
66	HDAS-8MR	3	TTL	15	15	15	15	1.5	85	8 Chan,12 Bit;±10V Diff Inp;Acc Time 10us			
67	HDAS-16MC	3	TTL	15	15	15	15	1.5	0	70	16 Chan,12 Bit;±10V Inp;Acc Time 10us		
68	HDAS-16MM	3	TTL	15	15	15	15	1.5	100	16 Chan,12 Bit;±10V Inp;Acc Time 10us			
69	HDAS-16MR	3	TTL	15	15	15	15	1.5	85	16 Chan,12 Bit;±10V Inp;Acc Time 10us			
70	MDAS-8D	3	TTL	2.0	.80	15	15	2.8	0	70	8Chan;0-5.0-10V±2.5±.5±10V Inp;	E3-6a	MD45
71	MDAS-16	3	TTL	2.0	.80	15	15	2.8	0	70	16Chan;0-5.0-10V±2.5±.5±10V Inp;	E3-6	MD45
72	MDAS-PG8D	3	TTL	15	15	15	15	1.5	0	70	8 Chan,12 Bit Differential;Prog Gain		
73	MDAS-PG16D	3	TTL	15	15	15	15	1.5	0	70	16 Chan,12 Bit Single Ended;Prog Gain		
74	MDXP-32	3	TTL	15	15	15	15	1.5	0	70	Expander Modules:32SE Chan;Sequence Logic	E3-7	MD
75	MDXP-32-1	3	TTL	15	15	15	15	1.5	0	70	Expander Modules:32SE Chan;Ton 500ns	E3-8	MD
76	MN7000	3	TTL	2.4	.80	15	15	3.0	0	70	12 Bit,16 Channel;Linear± 0.24%;Vi 20Vpp	E3-10	PC3
77	MN7000H	3	TTL	2.4	.80	15	15	3.0	55	125	12 Bit,16 Chan;Linear± 0.24%;Vi 20Vp-p	E3-10	PC3
78	MN7002	3	TTL	2.4	.80	15	15	3.0	0	70	12 Bit,16 Chan,Exp to 256;Linear± 0.24%	E3-10a	PC4
79	MN7002H	3	TTL	2.4	.80	15	15	3.0	55	125	12 Bit,16 Chan,Exp to 256;Linear± 0.24%	E3-10a	PC4
80	MN7100	3	TTL	4.0	.40	15	15	1.1	0	70	8 Bit 8 Chan,Exp to 256;Linear± 1/2 LSB	E3-9	MD57a
81	MN7100H	3	TTL	4.0	.40	15	15	1.1	55	125	8Bit;8Chan,Exp To 256;Linear± 1/2 LSB	E3-9	MD57a
82	MN7120	3	TTL	4.0	.40	15	15	1.1	0	70	8Ch 8Bit;±10V Inp;Sequen Or Random Addr	E3-16	MD57a
83	MN7120H	3	TTL	4.0	.40	15	15	1.1	55	125	8Ch 8Bit;±10V Inp;Sequen Or Random Addr	E3-16	MD57a
84	SDM850	3	CMS	4.0	.80	15	15	3.5	0	70	16 Ch MUX,Diff Amp,Sample/Hold,A/D Conv	E3-1	MD14
85	SDM851	3	CMS	4.0	.80	15	15	3.5	0	70	8 Ch MUX,Diff Amp,Sample/Hold,A/D Conv	E3-2	MD14
86	SDM853	3	HYB	15	15	15	15	3.3	0	70	16 Or 8 Ch MUX,Inst,Amp,Sample/Hold,A/D	E3-3	MD15
87	CH1070	4		28	0.0	500m	25	75			Blanking;Blank Vo 8.0V max;Res 15Ω;tpd50ns	E4-1	MD3a
88	CH1071	4		28	0.0	500m	25	75			Quad;Clock Volt:28V;Res 15Ω;Cap 100pF	E4-2	MD3a
89	770-316	5	TTL	5	5	1.1	0	50			64Channel Sequencer;Transit Time200ns max		MD
90	770-317	5	TTL	5	5	1.3	0	50			512Channel Sequencer Expander w/770-316		MD
91	DV640	6	CMS	15	0.0	0.0	15	15	0	70	Deltaverta Sys 8 Chan Multiplexer		MD142
92	DV641	6	CMS	15	0.0	0.0	15	15	0	70	Deltaverta Sys 8 Chan De-Multiplexer	E6-8	MD142
93	M1024B5	6	CMS	4.5†	4.1†	0.0	9.0	200m	25	70	30 Ch Ultrasonic Transmitter	E6-5	DL56b
94	M1025B5	6	MOS	-1.0	-4.0	18	0.0	1.0	25	70	30 Ch Ultrasonic Receiver	E6-6	DL56b
95	MC3449L	6	DTL	2.0	.80	0.0	5.25	367m	0	70	Triple Bi-Direct. Bus Switch;tpd30ns typ	E6-9	DL17b
96	MC3449P	6	DTL	2.0	.80	0.0	5.25	367m	0	70	Triple Bi-Direct. Bus Switch;tpd30ns typ	E6-9	DL30
97	MC8507L	6	TTL	2.4	.50	0.0	5.0	585m	0	75	Priority,VOH,4-7.0V,IIL -1.3uA max	E6-1	DL38</

25. SPECIAL DEVICES

IN ORDER OF: (1)TYPE CODE &(2)TYPE NUMBER

LINE No.	TYPE NUMBER	TYPE CODE	T E C H N	INPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		GENERAL DESCRIPTION	DRAWINGS		
				HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)		(-) (°C)	(+) (°C)		LOGIC DWG. No.	OUTLINE DWG. No.	
														Δ=MO
1▼	816-55-B1	7						20	100m	55	125	12 bit Volt Sum Network;Max Error .012%	E7-7	DL109
2▼	816-55-B2	7						20	100m	55	125	12 bit Volt Sum Network;Max Error .05%	E7-7	DL109
3▼	2502C/D	7	TTL	2.0	.80	0.0	5.0		475m	0	75	8Bit Successive Approx. Registers	E7-18	CH12
4▼	2502CJE	7	TTL	2.0	.80	0.0	5.0		475m	0	75	8Bit Successive Approx. Registers	E7-18	DL76a
5▼	2502CPE	7	TTL	2.0	.80	0.0	5.0		475m	0	75	8Bit Successive Approx. Registers	E7-18	DL64a
6▼	2502M/D	7	TTL	2.0	.80	0.0	5.0		425m	55	125	8Bit Successive Approx. Registers	E7-18	CH12
7▼	2502MJE	7	TTL	2.0	.80	0.0	5.0		425m	55	125	8Bit Successive Approx. Registers	E7-18	DL76a
8▼	2503C/D	7	TTL	2.0	.80	0.0	5.0		450m	0	75	8Bit Successive Approx. Registers	E7-18a	CH12
9▼	2503CJE	7	TTL	2.0	.80	0.0	5.0		450m	0	75	8Bit Successive Approx. Registers	E7-18a	DL76a
10▼	2503CPE	7	TTL	2.0	.80	0.0	5.0		450m	0	75	8Bit Successive Approx. Registers	E7-18a	DL64a
11▼	2503M/D	7	TTL	2.0	.80	0.0	5.0		400m	55	125	8Bit Successive Approx. Registers	E7-18a	CH12
12▼	2503MJE	7	TTL	2.0	.80	0.0	5.0		400m	55	125	8Bit Successive Approx. Registers	E7-18a	DL76a
13▼	2504C/D	7	TTL	2.0	.80	0.0	5.0		625m	0	75	12Bit Successive Approx. Registers	E7-18b	CH12
14▼	2504CJG	7	TTL	2.0	.80	0.0	5.0		625m	0	75	12Bit Successive Approx. Registers	E7-18b	DL117
15▼	2504CPE	7	TTL	2.0	.80	0.0	5.0		625m	0	75	12Bit Successive Approx. Registers	E7-18b	DL83a
16▼	2504M/D	7	TTL	2.0	.80	0.0	5.0		550m	55	125	12Bit Successive Approx. Registers	E7-18b	CH12
17▼	2504MJG	7	TTL	2.0	.80	0.0	5.0		550m	55	125	12Bit Successive Approx. Registers	E7-18b	DL117
18▼	A90-1	7	TTL	2.0	.80	15	15		240m	0	70	Sign-Bit Ampl;Digital Control Gain of ±1		MD141
19▼	AD550JD	7	TTL	2.0	.80	15	5.0		195m	0	70	Quad Curr Sw For DAC;Accuracy 1.0%max		TO116
20▼	AD550JF	7	TTL	2.0	.80	15	5.0		195m	0	70	Quad Curr Sw For DAC;Accuracy 1.0%max		TO87
21▼	AD550KD	7	TTL	2.0	.80	15	5.0		195m	0	70	Quad Curr Sw For DAC;Accuracy .10%max		TO116
22▼	AD550KF	7	TTL	2.0	.80	15	5.0		195m	0	70	Quad Curr Sw For DAC;Accuracy .10%max		TO87
23▼	AD550LD	7	TTL	2.0	.80	15	5.0		195m	0	70	Quad Curr Sw For DAC;Accuracy .01%max		TO116
24▼	AD550LF	7	TTL	2.0	.80	15	5.0		195m	0	70	Quad Curr Sw For DAC;Accuracy .01%max		TO87
25▼	AD550SD	7	TTL	2.0	.80	15	5.0		195m	55	125	Quad Curr Sw For DAC;Accuracy 1.0%max		TO116
26▼	AD550SF	7	TTL	2.0	.80	15	5.0		195m	55	125	Quad Curr Sw For DAC;Accuracy 1.0%max		TO87
27▼	AD550TD	7	TTL	2.0	.80	15	5.0		195m	55	125	Quad Curr Sw For DAC;Accuracy .10%max		TO116
28▼	AD550TF	7	TTL	2.0	.80	15	5.0		195m	55	125	Quad Curr Sw For DAC;Accuracy .10%max		TO87
29▼	AD550UD	7	TTL	2.0	.80	15	5.0		195m	55	125	Quad Curr Sw For DAC;Accuracy .01%max		TO116
30▼	AD550UF	7	TTL	2.0	.80	15	5.0		195m	55	125	Quad Curr Sw For DAC;Accuracy .01%max		TO87
31▼	AD553JD	7	TTL	2.0	.80	15	5.0		210m	0	70	Quad Curr Sw for DAC;Accuracy 1.0% max	E7-5	TO116
32▼	AD553JF	7	TTL	2.0	.80	15	5.0		210m	0	70	Quad Curr Sw for DAC;Accuracy 1.0% max	E7-5	TO116
33▼	AD553LD	7	TTL	2.0	.80	15	5.0		210m	0	70	Quad Curr Sw for DAC;Accuracy .01% max	E7-5	TO116
34▼	AD553LF	7	TTL	2.0	.80	15	5.0		210m	55	125	Quad Curr Sw for DAC;Accuracy 1.0% max	E7-5	TO116
35▼	AD553SF	7	TTL	2.0	.80	15	5.0		210m	55	125	Quad Curr Sw for DAC;Accuracy 1.0% max	E7-5	TO87
36▼	AD553TF	7	TTL	2.0	.80	15	5.0		210m	55	125	Quad Curr Sw for DAC;Accuracy .10% max	E7-5	TO116
37▼	AD553UD	7	TTL	2.0	.80	15	5.0		210m	55	125	Quad Curr Sw for DAC;Accuracy .10% max	E7-5	TO87
38▼	AD553UF	7	TTL	2.0	.80	15	5.0		210m	55	125	Quad Curr Sw for DAC;Accuracy .01% max	E7-5	TO116
39▼	AD553JF	7	TTL	2.0	.80	15	5.0		210m	55	125	Quad Curr Sw for DAC;Accuracy .01% max	E7-5	TO87
40▼	AD555JD	7	TTL	2.0	.80	15	15		200m	0	70	Quad Volt Sw for DAC;On Resis 100 ohms	E7-4	TO116
41▼	AD555JF	7	TTL	2.0	.80	15	15		200m	0	70	Quad Volt Sw for DAC;On Resis 100 ohms	E7-4	TO87
42▼	AD555KD	7	TTL	2.0	.80	15	15		200m	0	70	Quad Volt Sw for DAC;On Resis 40 ohms	E7-4	TO116
43▼	AD555KF	7	TTL	2.0	.80	15	15		200m	0	70	Quad Volt Sw for DAC;On Resis 40 ohms	E7-4	TO87
44▼	AD555LD	7	TTL	2.0	.80	15	15		200m	0	70	Quad Volt Sw for DAC;On Resis 25 ohms	E7-4	TO116
45▼	AD555LF	7	TTL	2.0	.80	15	15		200m	0	70	Quad Volt Sw for DAC;On Resis 25 ohms	E7-4	TO87
46▼	AD555SD	7	TTL	2.0	.80	15	15		200m	55	125	Quad Volt Sw for DAC;On Resis 100 ohms	E7-4	TO116
47▼	AD555SF	7	TTL	2.0	.80	15	15		200m	55	125	Quad Volt Sw for DAC;On Resis 100 ohms	E7-4	TO87
48▼	AD555TD	7	TTL	2.0	.80	15	15		200m	55	125	Quad Volt Sw for DAC;On Resis 40 ohms	E7-4	TO116
49▼	AD555TF	7	TTL	2.0	.80	15	15		200m	55	125	Quad Volt Sw for DAC;On Resis 40 ohms	E7-4	TO87
50▼	AD555UD	7	TTL	2.0	.80	15	15		200m	55	125	Quad Volt Sw for DAC;On Resis 25 ohms	E7-4	TO116
51▼	AD555UF	7	TTL	2.0	.80	15	15		200m	55	125	Quad Volt Sw for DAC;On Resis 25 ohms	E7-4	TO87
52▼	DGL-13-1	7				15	15		2	55	85	Deglitcher;part of DDAC-X-1-2CM Card Assy	BB148	PC14
53▼	DGL-13-3	7				15	15		1.0	0	70	Deglitcher;part of DDAC-X-3-2CM Card Assy	BB148	PC14
54▼	HCD-13	7				15	15		1.2	55	105	Coax Cable Driver;part of DDAC-X-X-2CM	BB148	PC14
55▼	ICL7101CDL	7	TTL	2.4	.40%	15	5.0		500m	0	70	3-1/2 Digit A/D Pair w/ICL 8052 CDD	E7-22	DL122
56▼	ICL7101CPL	7	TTL	2.4	.40%	15	5.0		500m	0	70	3-1/2 Digit A/D Pair w/ICL 8052 CPD	E7-22	DL121
57▼	ICL7103ACDI	7	TTL	2.4	.40%	15	5.0		500m	0	70	4-1/2 Digit A/D Pair w/ICL 8052 ACDD	E7-23	DL119
58▼	ICL7103ACPI	7	TTL	2.4	.40%	15	5.0		500m	0	70	4-1/2 Digit A/D Pair w/ICL 8052 ACPD	E7-23	DL123
59▼	ICL7103CDD	7	TTL	2.4	.40%	15	5.0		500m	0	70	3-1/2 Digit A/D Pair w/icl 8052 CDD	E7-23	DL119
60▼	ICL7103CPI	7	TTL	2.4	.40%	15	5.0		500m	0	70	3-1/2 Digit A/D Pair w/ICL 8052 CPD	E7-23	DL123
61▼	ICL8018ACPD	7	DTL	2.0	.80	15	20		260m	0	70	Quad Curr. Switch;Accuracy 0.1%	E7-20	DL120
62▼	ICL8018AMDD	7	DTL	2.0	.80	15	20		260m	55	125	Quad Curr. Switch;Accuracy 0.1%	E7-20	DL120
63▼	ICL8019ACPD	7	DTL	2.0	.80	15	20		260m	0	70	Quad Curr. Switch;Accuracy 0.1%	E7-20	DL120
64▼	ICL8019AMDD	7	DTL	2.0	.80	15	20		260m	55	125	Quad Curr. Switch;Accuracy 0.1%	E7-20	DL120
65▼	ICL8020ACPD	7	DTL	2.0	.80	15	20		260m	0	70	Quad Curr. Switch;Accuracy 1.0%	E7-20	DL120
66▼	ICL8020AMDD	7	DTL	2.0	.80	15	20		260m	55	125	Quad Curr. Switch;Accuracy 1.0%	E7-20	DL120
67▼	ICL8052ACDD	7	MOS	14		15	15		500m	0	70	4-1/2 Digit A/D Pair w/ICL7103ACDI	E7-23a	DL73
68▼	ICL8052ACPD	7	MOS	14		15	15		500m	0	70	4-1/2 Digit A/D Pair w/ICL7103ACPI	E7-23a	DL64
69▼	ICL8052CDD	7	MOS	14		15	15		500m	0	70	3-1/2 Digit A/D Pair w/ICL7101CDL	E7-22a	DL73
70▼	ICL8052CPD	7	MOS	14		15	15		500m	0	70	3-1/2 Digit A/D Pair w/ICL7101CPL	E7-22a	DL64
71▼	ICL8053ACDD	7	MOS			15	5.0		500m	0	70	4-1/2 Digit A/D Pair w/ICL 8052 ACDD	E7-23a	DL73
72▼	ICL8053ACPD	7	MOS			15	5.0		500m	0	70	4-1/2 Digit A/D Pair w/ICL 8052 ACPD	E7-23a	DL64
73▼	ICL8053CDD	7	MOS			15	5.0		500m	0	70	3-1/2 Digit A/D Pair w/ICL 8052 CDD	E7-23a	DL73
74▼	ICL8053CPD	7	MOS			15	5.0		500m	0	70	3-1/2 Digit A/D Pair w/ICL 8052 CPD	E7-23a	DL64
75▼	LD110CJ	7	MOS	2.4	.40%	12	5.0		750m	0	70	9Bit A/D Converter Set w/LD111CJ	E7-19a	DL66
76▼	LD110CJΔ	7	PMS	2.4	.40%	12	12		750m	0	70	A/D 3-1/2 Digit;17 Latches	E7-8a	DL77b
77▼	LD110CP	7	MOS	2.4	.40%	12	5.0		750m	0	70	9Bit A/D Converter Set w/LD111CP	E7-19a	DL61a
78▼	LD111ACJ	7	PMS	2.4	.40%	12	12		750m	0	70	A/D 3-1/2 Digit;17 Latches	E7-8	DL77b
79▼	LD111CJ	7	PMS	2.4	.40%	12	12		750m	0	70	9 Bit A/D Converter Set w/110CJ	E7-19	DL66
80▼	LD111CJΔ	7	PMS	2.4	.40%	12	12		750m	0	70	A/D 3-1/2 Digit;17 Latches	E7-9a	DL77b
81▼	LD111CP	7	PMS	2.4	.40%	12	12		750m	0	70	9Bit A/D Converter Set w/110CP	E7-19	DL61a
82▼	LD114CR	7	PMS	2.4	.40%	12	5.0		1.2	0	70	10 Bit A/D Converter Set w/LD111	E7-19b	DL119
83▼	LD114CRΔ	7	PMS	2.4	.40%	12	12		1.2	0	70	A/D 3-1/2 Digit;17 Latches	E7-9	DL122
84▼	LD120CJ	7	PMS	2.4	.40%	12	12		750m	0	70	A/D 4-1/2 Digit;5 Samples/Sec max	E7-10a	DL77b
85▼	LD121CJ	7	PMS	2.4	.50%	12	12		750m	0	70	A/D 4-1/2 Digit;5 Samples/Sec max	E7-10	DL5d
86▼	LD130BP	7	CMS	2.4	.40%	5.0	5.0		1.0	20	85	A/D ±3 Digit;60 Samples/Sec max	E7-11	DL57a
87▼	LD130CJ	7	CMS	2.4	.40%	5.0	5.0		450m	0	70	A/D ±3 Digit;60 Samples/Sec max	E7-11	DL5d
88▼	LD131CJ	7	CMS	2.4	.40%	5.0	5.0		450m	0	70	A/D ±3-1/3 Digit;60 Samples/Sec max	E7-12	DL5d
89	MC1405L	7	TTL	13.5	.50%	0.0	15		195m	0	70	A/D Converter;Dual Ramp	E7-1	DL17b
90▼	MC1407L	7		4.0	.50%	15	15		1.0	0	75	A/D Control Ckt;Op-Amp,Comparator	E7-27	DL116
91	MC1505L	7	TTL	13.5	.50%	0.0	15		195m	0	70	A/D Converter;Dual Ramp	E7-1	DL17b
92▼	MC1507L	7		4.0	.50%	15	15		1.0	-55	125	A/D Control Ckt;Op-Amp,Comparator	E7-27	DL116
93▼	MC1650F	7	ECL	-81Δ	-1.8*	5.2	5.0		330m	30	85	Dual A/D Comparator;tpd 3.5ns typ	E7-21b	FP11
94▼	MC1650L	7	ECL	-81Δ	-1.8*	5.2	5.0		330m	30	85	Dual A/D Comparator;tpd 3.5ns typ	E7-21	DL17b
95▼	MC1651F	7	ECL	-81Δ	-1.8*	5.2	5.0		3					

26. 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/
M38510/00105BAA	ITT MOTA NSC	1B AMEND 2	M38510/00108CAB	FSC ITT MOTA	1B AMEND 2	M38510/00301CDC	none	3B AMEND 3	M38510/00303CAA	MOTA	3B AMEND 3	M38510/00802BDB	TII	8B AMEND 3
M38510/00105BAB	FSC ITT MOTA	1B AMEND 2	M38510/00108CAC	FSC MOTA NSC	1B AMEND 2	M38510/00302ACA	NSC	3B AMEND 3	M38510/00303CAB	FSC MOTA	3B AMEND 3	M38510/00802CAA	ITT MOTA	8B AMEND 3
M38510/00105BAC	FSC ITT MOTA NSC	1B AMEND 2	M38510/00108CBB	ITT	1B AMEND 2	M38510/00302ACB	NSC	3B AMEND 3	M38510/00303CAC	FSC MOTA NSC	3B AMEND 3	M38510/00802CAB	FSC ITT MOTA	8B AMEND 3
M38510/00105BBB	ITT	1B AMEND 2	M38510/00108CCA	ITT MOTA SIC	1B AMEND 2	M38510/00302ACC	NSC	3B AMEND 3	M38510/00303CCA	MOTA SIC	3B AMEND 3	M38510/00802CAC	FSC ITT MOTA	8B AMEND 3
M38510/00105BCA	ITT MOTA SIC	1B AMEND 2	M38510/00108CCB	FSC ITT MOTA NSC	1B AMEND 2	M38510/00302BAA	ITT MOTA	3B AMEND 3	M38510/00303CCB	MOTA SIC TII	3B AMEND 3	M38510/00802CBA	ITT	8B AMEND 3
M38510/00105BCB	FSC ITT MOTA NSC SIC TII	1B AMEND 2	M38510/00108CCC	ITT	1B AMEND 2	M38510/00302BAB	ITT MOTA	3B AMEND 3	M38510/00303CCD	SIC	3B AMEND 3	M38510/00802CBB	ITT MOTA	8B AMEND 3
M38510/00105BCC	ITT SIC	1B AMEND 2	M38510/00108CDB	SIC TII	1B AMEND 2	M38510/00302BAC	ITT MOTA	3B AMEND 3	M38510/00303CDB	SIC TII	3B AMEND 3	M38510/00802CCB	ITT MOTA	8B AMEND 3
M38510/00105BDA	SIC	1B AMEND 2	M38510/00108CDA	SIC	1B AMEND 2	M38510/00302BBB	ITT	3B AMEND 3	M38510/00801ACB	NSC	8B AMEND 3	M38510/00802CCD	ITT	8B AMEND 3
M38510/00105BDB	SIC TII	1B AMEND 2	M38510/00108CDB	SIC TII	1B AMEND 2	M38510/00302BCA	ITT MOTA SIC	3B AMEND 3	M38510/00801BAA	ITT MOTA	8B AMEND 3	M38510/00802CDB	TII	8B AMEND 3
M38510/00105CAA	ITT MOTA NSC	1B AMEND 2	M38510/00301ACA	NSC	3B AMEND 3	M38510/00302BCB	ITT MOTA SIC	3B AMEND 3	M38510/00801BAB	FSC ITT MOTA	8B AMEND 3	M38510/00803ACB	NSC	8B AMEND 3
M38510/00105CAB	FSC ITT MOTA NSC	1B AMEND 2	M38510/00301ACB	NSC	3B AMEND 3	M38510/00302BCC	ITT SIC	3B AMEND 3	M38510/00801BAC	FSC ITT MOTA	8B AMEND 3	M38510/00803ACA	ITT MOTA	8B AMEND 3
M38510/00105CAC	FSC ITT MOTA NSC	1B AMEND 2	M38510/00301ACC	NSC	3B AMEND 3	M38510/00302BDB	SIC TII	3B AMEND 3	M38510/00801BBA	ITT MOTA	8B AMEND 3	M38510/00803ACB	NSC	8B AMEND 3
M38510/00105CBB	ITT	1B AMEND 2	M38510/00301BAA	ITT MOTA	3B AMEND 3	M38510/00302CAA	ITT MOTA	3B AMEND 3	M38510/00801BAB	FSC ITT MOTA	8B AMEND 3	M38510/00803BAA	ITT MOTA	8B AMEND 3
M38510/00105CCA	ITT MOTA SIC	1B AMEND 2	M38510/00301BAB	FSC ITT MOTA	3B AMEND 3	M38510/00302CBA	ITT MOTA	3B AMEND 3	M38510/00801BAC	FSC ITT MOTA	8B AMEND 3	M38510/00803BAB	FSC ITT MOTA	8B AMEND 3
M38510/00105CCB	FSC ITT MOTA NSC SIC TII	1B AMEND 2	M38510/00301BAC	FSC ITT MOTA	3B AMEND 3	M38510/00302CAB	ITT MOTA	3B AMEND 3	M38510/00801BBA	ITT MOTA	8B AMEND 3	M38510/00803BAC	FSC ITT MOTA	8B AMEND 3
M38510/00105CCC	ITT SIC	1B AMEND 2	M38510/00301BBA	SIC TII	3B AMEND 3	M38510/00302CBB	ITT	3B AMEND 3	M38510/00801BBA	ITT MOTA	8B AMEND 3	M38510/00803BAC	FSC ITT MOTA	8B AMEND 3
M38510/00105CDA	SIC	1B AMEND 2	M38510/00301BDB	FSC ITT MOTA	3B AMEND 3	M38510/00302CBB	ITT	3B AMEND 3	M38510/00801BBA	ITT MOTA	8B AMEND 3	M38510/00803BAC	FSC ITT MOTA	8B AMEND 3
M38510/00105CDB	SIC TII	1B AMEND 2	M38510/00301BCC	ITT	3B AMEND 3	M38510/00302CBB	ITT	3B AMEND 3	M38510/00801BBA	ITT MOTA	8B AMEND 3	M38510/00803BAC	FSC ITT MOTA	8B AMEND 3
M38510/00108BAA	ITT MOTA NSC	1B AMEND 2	M38510/00301BDA	SIC	3B AMEND 3	M38510/00302CBB	ITT	3B AMEND 3	M38510/00801CAA	ITT MOTA	8B AMEND 3	M38510/00803BAC	FSC ITT MOTA	8B AMEND 3
M38510/00108BAB	FSC ITT MOTA	1B AMEND 2	M38510/00301BDB	SIC TII	3B AMEND 3	M38510/00302CBB	ITT	3B AMEND 3	M38510/00801CAB	ITT MOTA	8B AMEND 3	M38510/00803BAC	FSC ITT MOTA	8B AMEND 3
M38510/00108BAC	FSC ITT MOTA NSC	1B AMEND 2	M38510/00301BDC	none	3B AMEND 3	M38510/00302CCA	ITT MOTA SIC	3B AMEND 3	M38510/00801CAB	FSC ITT MOTA	8B AMEND 3	M38510/00803BAC	FSC ITT MOTA	8B AMEND 3
M38510/00108BBB	ITT	1B AMEND 2	M38510/00301CAA	ITT MOTA	3B AMEND 3	M38510/00302CCB	ITT MOTA SIC	3B AMEND 3	M38510/00801CAB	FSC ITT MOTA	8B AMEND 3	M38510/00803BAC	FSC ITT MOTA	8B AMEND 3
M38510/00108BCA	ITT MOTA SIC	1B AMEND 2	M38510/00301CAB	FSC ITT MOTA	3B AMEND 3	M38510/00302CCB	ITT MOTA SIC	3B AMEND 3	M38510/00801CAB	FSC ITT MOTA	8B AMEND 3	M38510/00803BAC	FSC ITT MOTA	8B AMEND 3
M38510/00108BCB	FSC ITT MOTA NSC SIC TII	1B AMEND 2	M38510/00301CAC	FSC ITT MOTA	3B AMEND 3	M38510/00302CCB	ITT MOTA SIC	3B AMEND 3	M38510/00801CAB	FSC ITT MOTA	8B AMEND 3	M38510/00803BAC	FSC ITT MOTA	8B AMEND 3
M38510/00108BCC	ITT	1B AMEND 2	M38510/00301CAB	FSC ITT MOTA	3B AMEND 3	M38510/00302CCB	ITT MOTA SIC	3B AMEND 3	M38510/00801CAB	FSC ITT MOTA	8B AMEND 3	M38510/00803BAC	FSC ITT MOTA	8B AMEND 3
M38510/00108BDA	SIC	1B AMEND 2	M38510/00301CACC	ITT	3B AMEND 3	M38510/00302CCB	ITT MOTA SIC	3B AMEND 3	M38510/00801CAB	FSC ITT MOTA	8B AMEND 3	M38510/00803BAC	FSC ITT MOTA	8B AMEND 3
M38510/00108BDB	SIC TII	1B AMEND 2	M38510/00301CDA	SIC	3B AMEND 3	M38510/00302CCB	ITT MOTA SIC	3B AMEND 3	M38510/00801CAB	FSC ITT MOTA	8B AMEND 3	M38510/00803BAC	FSC ITT MOTA	8B AMEND 3
M38510/00108CAA	ITT MOTA NSC	1B AMEND 2	M38510/00301CDB	SIC TII	3B AMEND 3	M38510/00302CCB	ITT MOTA SIC	3B AMEND 3	M38510/00801CAB	FSC ITT MOTA	8B AMEND 3	M38510/00803BAC	FSC ITT MOTA	8B AMEND 3

26. 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/
M38510/05301ADA	RCA	53A AMEND 2	M38510/05502AEA	RCA	55C AMEND 1	M38510/05503CFB	NSC	55C AMEND 1	M38510/07201BCB	SIC	72 AMEND 1	M38510/07902CFB	SIC	79 AMEND 1
M38510/05301BAA	NSC	53A AMEND 2	M38510/05502AFA	none	55C AMEND 1	M38510/05503CFC	NSC	55C AMEND 1	M38510/07201BDA	SIC	72 AMEND 1	M38510/07903BEA	SIC	79 AMEND 1
M38510/05301BAB	NSC	53A AMEND 2	M38510/05502BEA	RCA	55C AMEND 1	M38510/05504AEA	RCA	55C AMEND 1	M38510/07201BDB	SIC	72 AMEND 1	M38510/07903BEB	SIC	79 AMEND 1
M38510/05301BAC	NSC	53A AMEND 2	M38510/05502BEB	NSC	55C AMEND 1	M38510/05504AEB	NSC	55C AMEND 1	M38510/07201CCA	SIC	72 AMEND 1	M38510/07903BFA	SIC	79 AMEND 1
M38510/05301BCA	RCA	53A AMEND 2	M38510/05502BEC	NSC	55C AMEND 1	M38510/05504AEC	NSC	55C AMEND 1	M38510/07201CCB	SIC	72 AMEND 1	M38510/07903BFB	SIC	79 AMEND 1
M38510/05301BCB	RCA	53A AMEND 2	M38510/05502BFA	NSC	55C AMEND 1	M38510/05504AFA	none	55C AMEND 1	M38510/07201CDA	SIC	72 AMEND 1	M38510/07903CEA	SIC	79 AMEND 1
M38510/05301BCC	NSC	53A AMEND 2	M38510/05502BFB	NSC	55C AMEND 1	M38510/05504BEA	RCA	55C AMEND 1	M38510/07201CEA	SIC	72 AMEND 1	M38510/07903CEB	SIC	79 AMEND 1
M38510/05301BDA	RCA	53A AMEND 2	M38510/05502BFC	NSC	55C AMEND 1	M38510/05504BEB	NSC	55C AMEND 1	M38510/07201CDB	SIC	72 AMEND 1	M38510/07903CEB	SIC	79 AMEND 1
M38510/05301CAA	NSC	53A AMEND 2	M38510/05502CEA	RCA	55C AMEND 1	M38510/05504BEC	NSC	55C AMEND 1	M38510/07901BEA	SIC	79 AMEND 1	M38510/07903CFA	SIC	79 AMEND 1
M38510/05301CAB	NSC	53A AMEND 2	M38510/05502CEB	NSC	55C AMEND 1	M38510/05504BFA	NSC	55C AMEND 1	M38510/07901BEB	SIC	79 AMEND 1	M38510/07903CFB	SIC	79 AMEND 1
M38510/05301CAC	NSC	53A AMEND 2	M38510/05502CEC	NSC	55C AMEND 1	M38510/05504BFB	NSC	55C AMEND 1	M38510/07901BFA	SIC	79 AMEND 1	M38510/08101BCA	SIC	81 AMEND 1
M38510/05301CCA	RCA	53A AMEND 2	M38510/05502CFA	NSC	55C AMEND 1	M38510/05504BFC	NSC	55C AMEND 1	M38510/07901BFA	SIC	79 AMEND 1	M38510/08101BCA	SIC	81 AMEND 1
M38510/05301CCB	RCA	53A AMEND 2	M38510/05502CFB	NSC	55C AMEND 1	M38510/05504CEA	RCA	55C AMEND 1	M38510/07901BFB	SIC	79 AMEND 1	M38510/08101BCB	SIC	81 AMEND 1
M38510/05301CDA	RCA	53A AMEND 2	M38510/05502CFC	NSC	55C AMEND 1	M38510/05504CEB	NSC	55C AMEND 1	M38510/07901CEA	SIC	79 AMEND 1	M38510/08101BDA	SIC	81 AMEND 1
M38510/05501AEA	RCA	55C AMEND 1	M38510/05503AEA	RCA	55C AMEND 1	M38510/05504CEC	NSC	55C AMEND 1	M38510/07901CEB	SIC	79 AMEND 1	M38510/08101BDB	SIC	81 AMEND 1
M38510/05501AFA	none	55C AMEND 1	M38510/05503AEB	NSC	55C AMEND 1	M38510/05504CFA	NSC	55C AMEND 1	M38510/07901CFB	SIC	79 AMEND 1	M38510/08101CCB	SIC	81 AMEND 1
M38510/05501BEA	RCA	55C AMEND 1	M38510/05503AEC	NSC	55C AMEND 1	M38510/05504CFB	NSC	55C AMEND 1	M38510/07901CFA	SIC	79 AMEND 1	M38510/08101CCA	SIC	81 AMEND 1
M38510/05501BEB	NSC	55C AMEND 1	M38510/05503AFA	none	55C AMEND 1	M38510/05504CFC	NSC	55C AMEND 1	M38510/07901CFB	SIC	79 AMEND 1	M38510/08101CCB	SIC	81 AMEND 1
M38510/05501BEC	NSC	55C AMEND 1	M38510/05503BEA	RCA	55C AMEND 1	M38510/07003BCA	SIC	70	M38510/07902BEA	SIC	79	M38510/08101CDA	SIC	81
M38510/05501BFA	NSC	55C AMEND 1	M38510/05503BEB	NSC	55C AMEND 1	M38510/07003BCB	SIC	70	M38510/07902BEB	SIC	79	M38510/08101CDB	SIC	81
M38510/05501BFB	NSC	55C AMEND 1	M38510/05503BEC	NSC	55C AMEND 1	M38510/07003BDA	SIC	70	M38510/07902BFA	SIC	79	M38510/10401BAA	FSC	104A
M38510/05501BFC	NSC	55C AMEND 1	M38510/05503BEC	NSC	55C AMEND 1	M38510/07003BDB	SIC	70	M38510/07902BFB	SIC	79	M38510/10401BAB	FSC	104A
M38510/05501CEA	RCA	55C AMEND 1	M38510/05503BFA	NSC	55C AMEND 1	M38510/07003CBA	SIC	70	M38510/07902BFA	SIC	79	M38510/10401BAC	FSC	104A
M38510/05501CEB	NSC	55C AMEND 1	M38510/05503BFB	NSC	55C AMEND 1	M38510/07003CDB	SIC	70	M38510/07902BFA	SIC	79	M38510/10401BCA	FSC	104A
M38510/05501CEC	NSC	55C AMEND 1	M38510/05503BFC	NSC	55C AMEND 1	M38510/07003BCA	SIC	70	M38510/07902BFB	SIC	79	M38510/10401BCB	FSC	104A
M38510/05501CFA	NSC	55C AMEND 1	M38510/05503BFA	NSC	55C AMEND 1	M38510/07003BCB	SIC	70	M38510/07902BFA	SIC	79	M38510/10401BCB	FSC	104A
M38510/05501CFB	NSC	55C AMEND 1	M38510/05503BFB	NSC	55C AMEND 1	M38510/07003BDA	SIC	70	M38510/07902BFA	SIC	79	M38510/10401BCB	FSC	104A
M38510/05501CFC	NSC	55C AMEND 1	M38510/05503BFC	NSC	55C AMEND 1	M38510/07003BDB	SIC	70	M38510/07902BFA	SIC	79	M38510/10401BCB	FSC	104A
			M38510/05503CEA	RCA	55C AMEND 1	M38510/07003CBA	SIC	70	M38510/07902BFA	SIC	79	M38510/10401BCA	FSC	104A
			M38510/05503CEB	NSC	55C AMEND 1	M38510/07003BCB	SIC	70	M38510/07902BFB	SIC	79	M38510/10401BCB	FSC	104A
			M38510/05503CEC	NSC	55C AMEND 1	M38510/07003BDA	SIC	70	M38510/07902BFA	SIC	79	M38510/10401BCB	FSC	104A
			M38510/05503CFA	NSC	55C AMEND 1	M38510/07003BDB	SIC	70	M38510/07902BFA	SIC	79	M38510/10401BCB	FSC	104A
			M38510/05503CFA	RCA	55C AMEND 1	M38510/07003CBA	SIC	70	M38510/07902BFA	SIC	79	M38510/10401BCB	FSC	104A

26. 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/
M38510/10401CAC	FSC	104A	M38510/10404FC	FSC	104A	M38510/15103CDA	SIC	151	M38510/30003BCB	MOTA	150B	M38510/30004BDC	NSC	300
		AMEND 3			AMEND 3			AMEND 5		NSC	AMEND 3			AMEND 4
M38510/10401CCA	FSC	104A	M38510/10405BEB	none	104A			USAF 151	M38510/30003BCC	NSC	300	M38510/30004CAA	NSC	300
		AMEND 3			AMEND 3	M38510/15103CDB	SIC	AMEND 5			AMEND 4			AMEND 4
M38510/10401CCB	FSC	104A	M38510/10405CEB	none	104A			USAF 153	M38510/30003BDA	NSC	300	M38510/30004CAB	NSC	300
		AMEND 3			AMEND 3	M38510/15103BCA	SIC	AMEND 5			AMEND 4			AMEND 4
M38510/10402BCA	FSC	104A	M38510/15102BAA	MOTA	151			AMEND 2	M38510/30003BDB	NSC	300	M38510/30004CAC	NSC	300
		AMEND 3			AMEND 3	M38510/15103BCB	SIC	USAF 153			AMEND 3			AMEND 4
M38510/10402BCB	TII	104A	M38510/15102BAB	MOTA	151			AMEND 2	M38510/30003BDD	NSC	300	M38510/30004CACC	NSC	300
		AMEND 3			AMEND 3	M38510/15103BDA	SIC	AMEND 2			AMEND 3			AMEND 4
M38510/10402CCA	FSC	104A	M38510/15102BAC	MOTA	151			USAF 153	M38510/30003BDC	NSC	300	M38510/30004CCA	NSC	300
		AMEND 3			AMEND 3	M38510/15103BDB	SIC	AMEND 2			AMEND 4			AMEND 4
M38510/10403BEA	FSC	104A	M38510/15102BCA	MOTA	151			AMEND 2	M38510/30003CAA	NSC	300	M38510/30004CCB	MOTA	150B
		AMEND 3			AMEND 3	M38510/15103CCA	SIC	AMEND 2			AMEND 4			AMEND 3
M38510/10403BEB	FSC	104A	M38510/15102BCB	MOTA	151			USAF 153	M38510/30003CAB	NSC	300	M38510/30004CCC	NSC	300
		AMEND 3			AMEND 3	M38510/15103CCB	SIC	AMEND 2			AMEND 4			AMEND 4
M38510/10403BEC	none	104A	M38510/15102BDA	SIC	151			AMEND 2	M38510/30003CAC	NSC	300	M38510/30004CDA	NSC	300
		AMEND 3			AMEND 3	M38510/15103CDB	SIC	AMEND 2			AMEND 4			AMEND 4
M38510/10403BFA	FSC	104A	M38510/15102BDB	SIC	151			USAF 153	M38510/30003CCA	MOTA	300	M38510/30004CDB	NSC	150B
		AMEND 3			AMEND 3	M38510/15103CDA	SIC	AMEND 2			AMEND 4			AMEND 3
M38510/10403BFB	FSC	104A	M38510/15102CAA	MOTA	151			AMEND 2	M38510/30003CCB	MOTA	NSC	M38510/30004CDC	NSC	300
		AMEND 3			AMEND 3	M38510/15103CDB	SIC	AMEND 2			AMEND 3			AMEND 4
M38510/10403BFC	FSC	104A	M38510/15102CAB	MOTA	151			USAF 153	M38510/30003CCD	NSC	300	M38510/30201BAA	NSC	302A
		AMEND 3			AMEND 3	M38510/15103CDB	SIC	AMEND 2			AMEND 4			AMEND 1
M38510/10403BCE	none	104A	M38510/15102CAC	MOTA	151			AMEND 2	M38510/30003CDA	NSC	300	M38510/30201BAB	NSC	302A
		AMEND 3			AMEND 3	M38510/15103CDB	SIC	AMEND 2			AMEND 4			AMEND 1
M38510/10403CFA	FSC	104A	M38510/15102CCA	MOTA	151			USAF 153	M38510/30003CDB	NSC	150B	M38510/30201BAC	NSC	302A
		AMEND 3			AMEND 3	M38510/15103CDB	SIC	AMEND 2			AMEND 3			AMEND 1
M38510/10403CFB	FSC	104A	M38510/15102CCB	MOTA	151			USAF 153	M38510/30003CDC	NSC	300	M38510/30201BCA	NSC	302A
		AMEND 3			AMEND 3	M38510/15103CDB	SIC	AMEND 2			AMEND 4			AMEND 1
M38510/10403CFC	FSC	104A	M38510/15102CAB	MOTA	151			AMEND 2	M38510/30003CDD	NSC	300	M38510/30201BCB	NSC	302A
		AMEND 3			AMEND 3	M38510/15103CDB	SIC	AMEND 2			AMEND 4			AMEND 1
M38510/10404BEA	FSC	104A	M38510/15102CDA	SIC	151			USAF 153	M38510/30004BAA	NSC	300	M38510/30201BCD	NSC	302A
		AMEND 3			AMEND 3	M38510/15103CDB	SIC	AMEND 2			AMEND 4			AMEND 1
M38510/10404BEB	FSC	104A	M38510/15102CDB	SIC	151			AMEND 2	M38510/30004BAB	none	300	M38510/30201BCE	NSC	302A
		AMEND 3			AMEND 3	M38510/15103CDB	SIC	AMEND 2			AMEND 4			AMEND 1
M38510/10404BEC	none	104A	M38510/15103CA	SIC	151			USAF 153	M38510/30004BAC	NSC	300	M38510/30201BCD	NSC	302A
		AMEND 3			AMEND 3	M38510/15103CDB	SIC	AMEND 2			AMEND 4			AMEND 1
M38510/10404BFA	FSC	104A	M38510/15103CBA	SIC	151			AMEND 2	M38510/30004BBD	NSC	300	M38510/30201BCD	NSC	302A
		AMEND 3			AMEND 3	M38510/15103CDB	SIC	AMEND 2			AMEND 4			AMEND 1
M38510/10404BFB	FSC	104A	M38510/15103CBB	SIC	151			USAF 153	M38510/30004BCA	MOTA	NSC	M38510/30201BDB	NSC	302A
		AMEND 3			AMEND 3	M38510/15103CDB	SIC	AMEND 2			AMEND 4			AMEND 1
M38510/10404BFC	FSC	104A	M38510/15103CDB	SIC	151			AMEND 2	M38510/30004BCB	MOTA	NSC	M38510/30201BDC	NSC	302A
		AMEND 3			AMEND 3	M38510/15103CDB	SIC	AMEND 2			AMEND 4			AMEND 1
M38510/10404CEA	FSC	104A	M38510/15103CDA	SIC	151			USAF 300	M38510/30004BCD	MOTA	NSC	M38510/30201BDD	NSC	302A
		AMEND 3			AMEND 3	M38510/15103CDB	SIC	AMEND 4			AMEND 3			AMEND 1
M38510/10404CEB	FSC	104A	M38510/15103CDB	SIC	151			USAF 300	M38510/30004BCE	NSC	300	M38510/30201BDE	NSC	302A
		AMEND 3			AMEND 3	M38510/15103CDB	SIC	AMEND 4			AMEND 4			AMEND 1
M38510/10404CEC	none	104A	M38510/15103CCA	SIC	151			USAF 300	M38510/30004BCD	NSC	300	M38510/30201BDE	NSC	302A
		AMEND 3			AMEND 3	M38510/15103CDB	SIC	AMEND 4			AMEND 4			AMEND 1
M38510/10404CFA	FSC	104A	M38510/15103CCB	SIC	151			AMEND 4	M38510/30004BDB	NSC	150B	M38510/30201CAC	NSC	302A
		AMEND 3			AMEND 3	M38510/15103CDB	SIC	AMEND 4			AMEND 3			AMEND 1
M38510/10404CFB	FSC	104A			AMEND 5			USAF			AMEND 3			USAF

26. 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/
M38510/30201CCA	NSC SIC	302A AMEND 1	M38510/30202CDB	NSC SIC TII	302A AMEND 1									
M38510/30201CCB	NSC RTN TII	USAF 302A AMEND 1	M38510/30202CDC	NSC	USAF 302A AMEND 1									
M38510/30201CCC	NSC	USAF 302A AMEND 1	M38510/30203BAA	NSC	USAF 302A AMEND 1									
M38510/30201CDA	NSC SIC	USAF 302A AMEND 1	M38510/30203BAB	NSC	USAF 302A AMEND 1									
M38510/30201CDB	NSC SIC TII	USAF 302A AMEND 1	M38510/30203BAC	NSC	USAF 302A AMEND 1									
M38510/30201CDC	NSC	USAF 302A AMEND 1	M38510/30203BCA	NSC	USAF 302A AMEND 1									
M38510/30202BAA	NSC	USAF 302A AMEND 1	M38510/30203BCB	NSC RTN TII	USAF 302A AMEND 1									
M38510/30202BAB	NSC	USAF 302A AMEND 1	M38510/30203BCC	NSC	USAF 302A AMEND 1									
M38510/30202BAC	NSC	USAF 302A AMEND 1	M38510/30203BDA	NSC	USAF 302A AMEND 1									
M38510/30202BCA	NSC SIC	USAF 302A AMEND 1	M38510/30203BDB	NSC TII	USAF 302A AMEND 1									
M38510/30202BCB	NSC RTN TII	USAF 302A AMEND 1	M38510/30203BDC	NSC	USAF 302A AMEND 1									
M38510/30202BCC	NSC	USAF 302A AMEND 1	M38510/30203CAA	NSC	USAF 302A AMEND 1									
M38510/30202BDA	NSC SIC	USAF 302A AMEND 1	M38510/30203CAB	NSC	USAF 302A AMEND 1									
M38510/30202BDB	NSC SIC TII	USAF 302A AMEND 1	M38510/30203CAC	NSC	USAF 302A AMEND 1									
M38510/30202BDC	NSC	USAF 302A AMEND 1	M38510/30203CCA	NSC	USAF 302A AMEND 1									
M38510/30202CAA	NSC	USAF 302A AMEND 1	M38510/30203CCB	NSC RTN TII	USAF 302A AMEND 1									
M38510/30202CAB	NSC	USAF 302A AMEND 1	M38510/30203CCC	NSC	USAF 302A AMEND 1									
M38510/30202CAC	NSC	USAF 302A AMEND 1	M38510/30203CDA	NSC	USAF 302A AMEND 1									
M38510/30202CCA	NSC SIC	USAF 302A AMEND 1	M38510/30203CDB	NSC TII	USAF 302A AMEND 1									
M38510/30202CCB	NSC RTN TII	USAF 302A AMEND 1	M38510/30203CDC	NSC	USAF 302A AMEND 1									
M38510/30202CCC	NSC	USAF 302A AMEND 1												
M38510/30202CDA	NSC SIC	USAF 302A AMEND 1 USAF												

COMMERCIAL TYPE No.	MILITARY TYPE No.
54H04	M38510/02305
54H40	M38510/02401
54L04	M38510/02005
54LS04	M38510/30003
54LS05	M38510/30004
54LS37	M38516/30202
54LS38	M38510/30203
54LS40	M38510/30201
54S04	M38510/07003
54S05	M38510/07004
54S40	M38510/07201
54S140	M38510/08101
54S151	M38510/07901
54S153	M38510/07902
54S157	M38510/07903
935	M38510/03002
936	M38510/03003
940	M38510/03002
4007A	M38510/05301
4009A	M38510/05501
4010A	M38510/05502
4049A	M38510/05503
4050A	M38510/05504
5404	M38510/00105
5405	M38510/00108
5406	M38510/00801
5416	M38510/00802
5417	M38510/00804
5426	M38510/00805
5437	M38510/00302
5438	M38510/00303
5440	M38510/00301
5445	M38510/01004
5448	M38510/01008
5449	M38510/01009
7414	M38510/15102
9309	M38510/01404
9312	M38510/01402
9322	M38510/01405
9614	M38510/10403
9615	M38510/10404
54125	M38510/15301
54126	M38510/15302
54132	M38510/15103
54145	M38510/01005
54150	M38510/01401
54153	M38510/01403
55107	M38510/01401/10401
55108	M38510/10402
55113	M38510/01405/10405
55114	M38510/01404/10403
55115	M38510/01404/10404

MILITARY DOCUMENTS

Department of Defense Index of Specifications and Standards dated 1 July 1972, Supplement dated 1 November 1976.

Device Manufacturers Qualifications on Test Reference Letter.

MIL-M-0038510B (USAF) Military Specification, General Specification for Microcircuits, dated 1 October 1973, Supplement 1B, dated 3 May 1976, used in lieu of MIL-M-38510C, Military Specification, dated 1 March 1976, Supplement 1B, dated 10 December 1976.

QPL-38510-28 Qualified Products List (Part I) of Products Qualified Under Military Specification MIL-M-38510, dated 1 April 1977. Qualified Products List (Part II) of Products Qualified Under Military Specification MIL-M-38510, dated 1 April 1977, Amendment 1, dated April 4, 1977. 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-STD-883A Military Standard; Test Methods and Procedures for Microelectronics, dated 15 November 1974, Notice 2, dated 1 March 1976.

MIL-STD-1562 Military Standard; List of Standard microcircuits, dated 5 November 1974.

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	case	lead material
class	outline	and finish

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

DRAWING PREFIX ASSIGNMENTS

LOGIC DRAWINGS (Section No.)

- AA: LOGIC BUFFERS/DRIVERS (2)
- AB: LINE DRIVERS/TRANSMITTERS (3)
- AC: MEMORY/CLOCK DRIVERS (4)
- AD: PERIPHERAL/POWER DRIVERS (5)
- AE: DISPLAY DRIVERS (6)
- AF: SWITCH DRIVERS (7)
- BA: A/D CONVERTERS (10)
- BB: D/A CONVERTERS (11)
- BC: LOGIC LEVEL CONVERTERS/
LEVEL TRANSLATORS (12)
- CA: ANALOG GATE SWITCHES: BILATERAL,
MULTIPLE (15)
- CB: ANALOG MULTIPLEXERS (16)
- CC: DIGITAL MULTIPLEXERS/SELECTORS (17)
- CD: DIGITAL DEMULTIPLEXERS/DECODERS (18)
- DA: LINE RECEIVERS (20)
- DB: LINE TRANSCEIVERS (21)
- DC: SENSE AMPLIFIERS (22)
- DD: SAMPLE/HOLD (23)
- DE: SCHMITT TRIGGERS (24)
- E_* SPECIAL DEVICES (25)

* No. following E indicates Type Code

OUTLINE DRAWINGS

- CH: CHIP PACKAGE
- CN: CAN
- DL: DUAL IN LINE
- FP: FLAT PACKAGE
- MD: MODULAR PACKAGE
- MO: STANDARD JEDEC OUTLINE
- PC: PRINTED CIRCUIT BOARD
- TO: STANDARD JEDEC OUTLINE

- : BASIC CONFIGURATION
- △: MO STANDARD JEDEC OUTLINE

NOTES

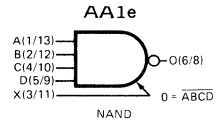
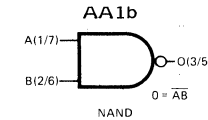
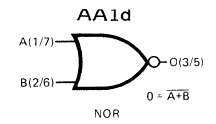
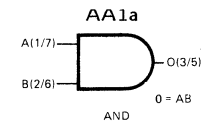
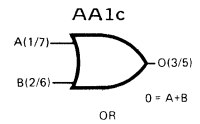
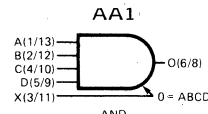
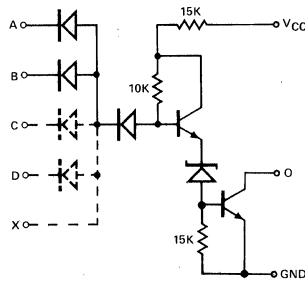
These outline drawings are intended as a guide for the user. They should not be used for construction purposes without first checking with the appropriate manufacturer.

These drawings are referenced in the Technical Sections of this D.A.T.A. BOOK in accordance with information supplied by the manufacturers.

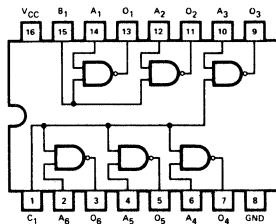
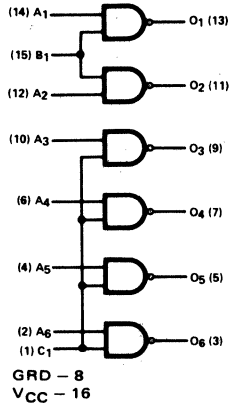
The MO and TO drawings have been reproduced from JEDEC Registration Data Files with the permission of the National Electrical Manufacturer's Association — Electronic Industries Association. JEDEC designations are assigned only to outlines submitted by the JC-11 Committee on Mechanical Standardization. The procedure of assigning and announcing the JEDEC designation constitutes registration.

Since presentations may vary, the sources of information should be consulted before critical connections are made to the device.

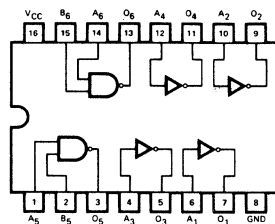
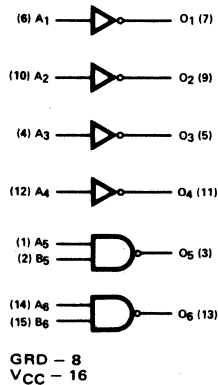
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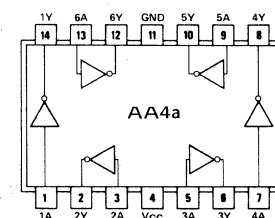
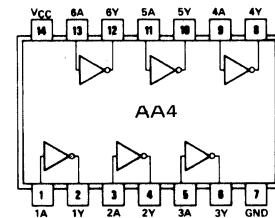
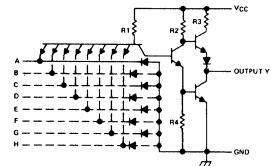
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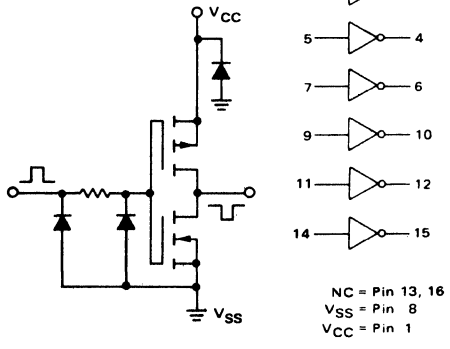
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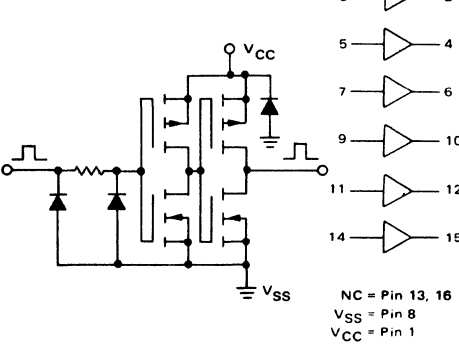
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

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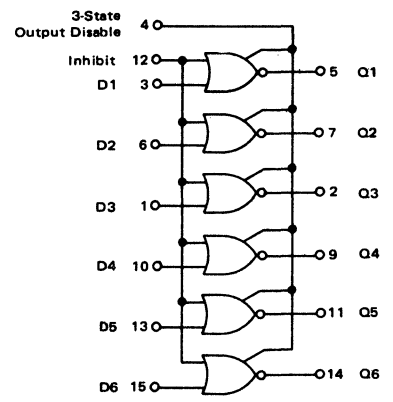
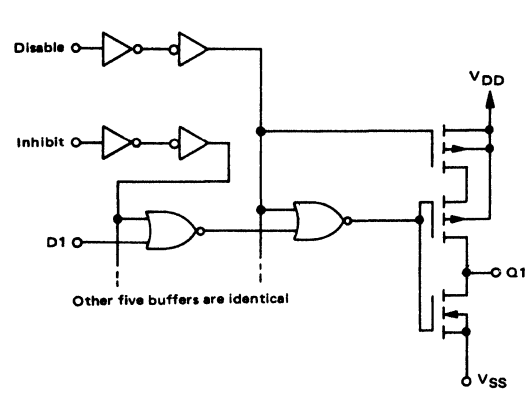


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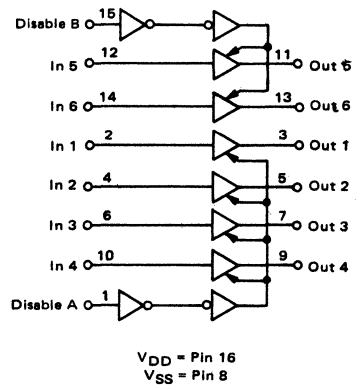
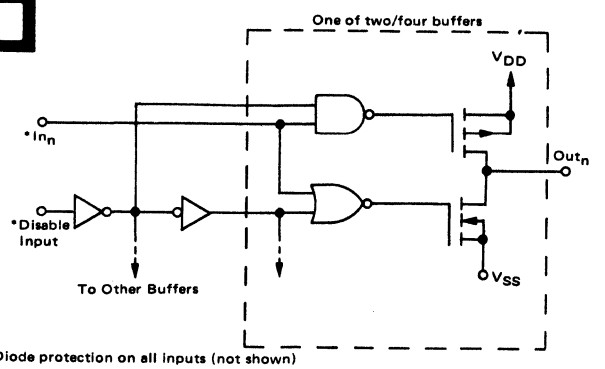


[Empty Box]

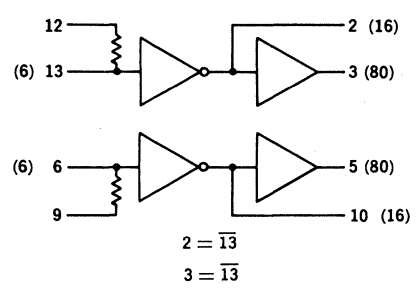
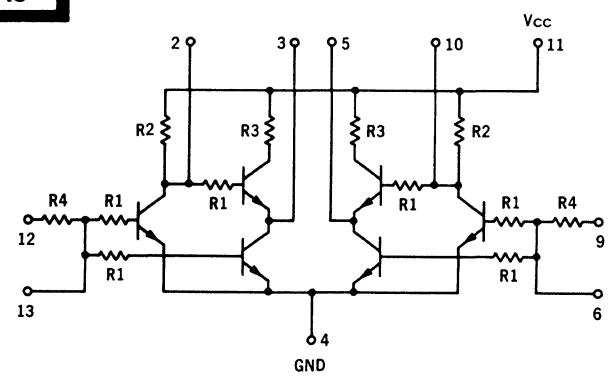
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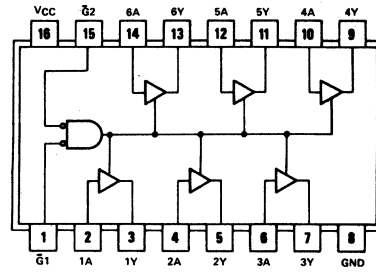
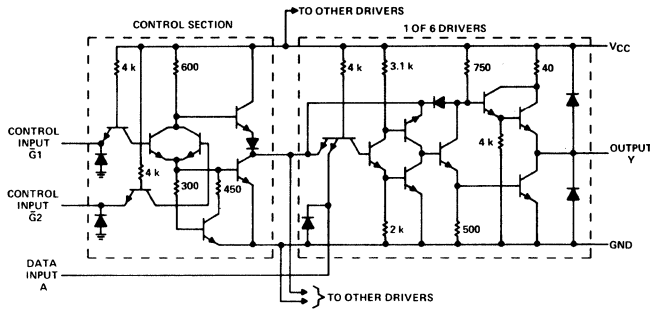
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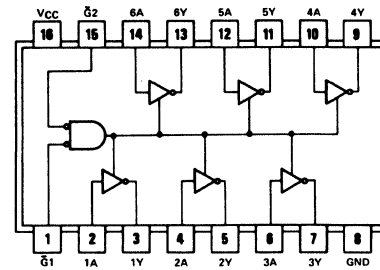
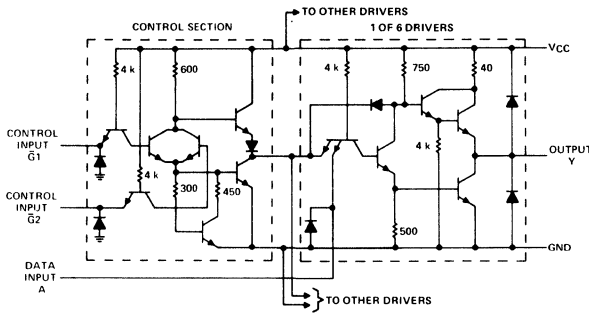
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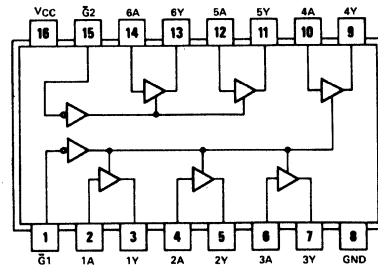
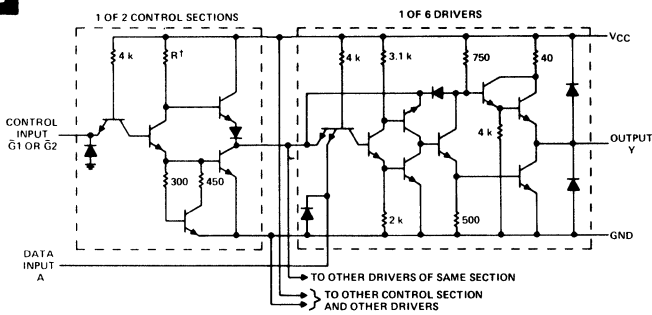
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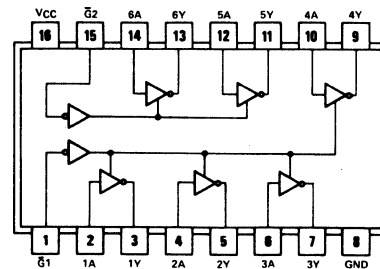
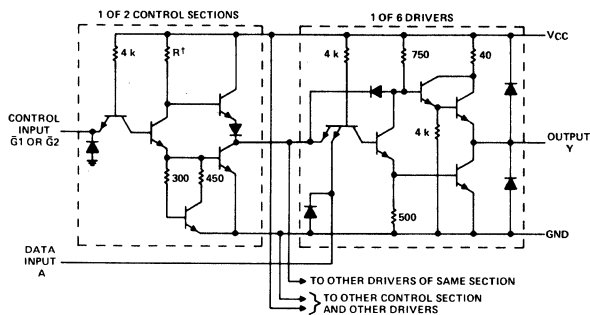
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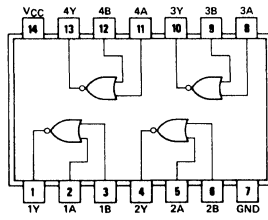
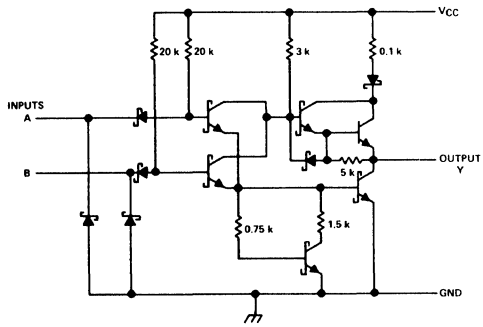
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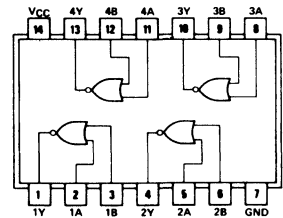
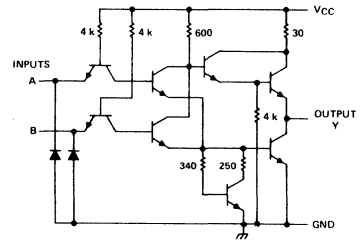
27. LOGIC/BLOCK DRAWINGS

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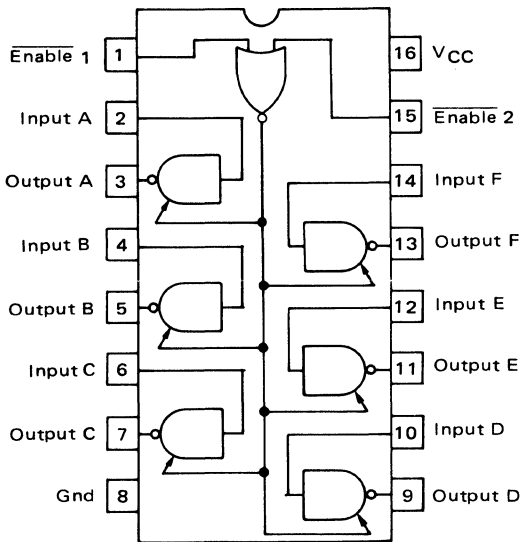
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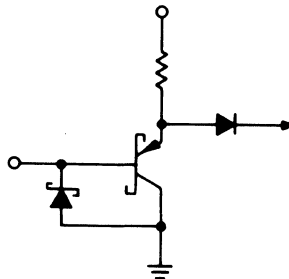
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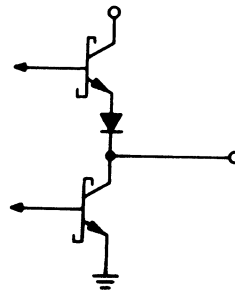
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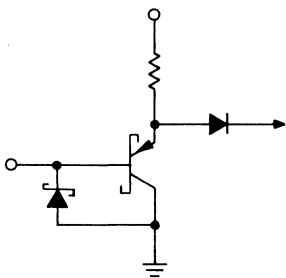
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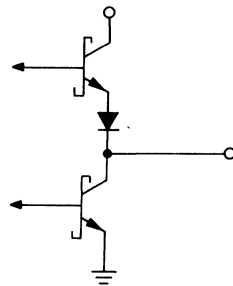
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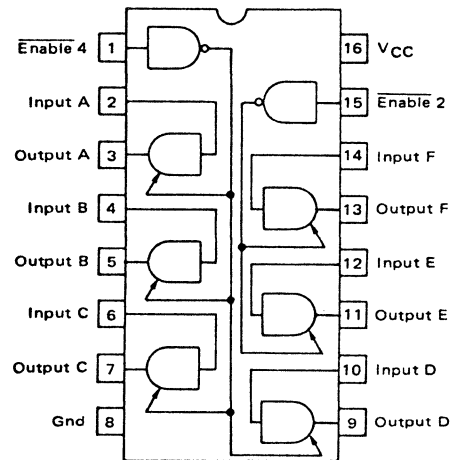
INPUT EQUIVALENT CIRCUIT



OUTPUT EQUIVALENT CIRCUIT



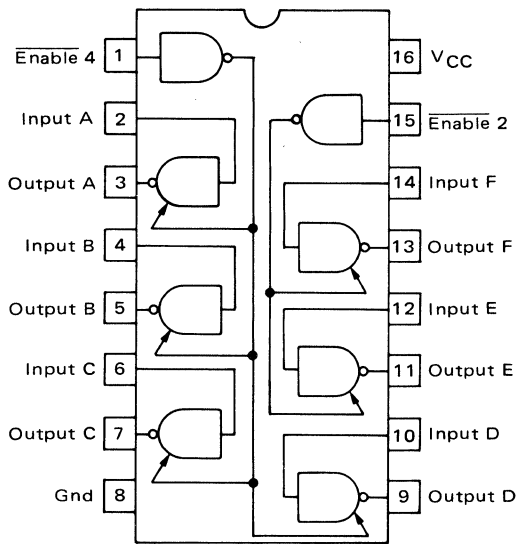
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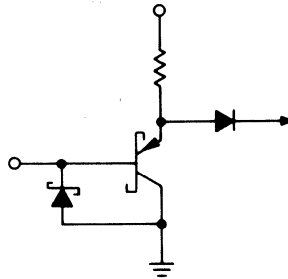
27. LOGIC/BLOCK DRAWINGS

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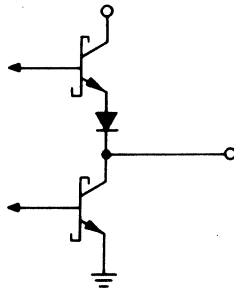
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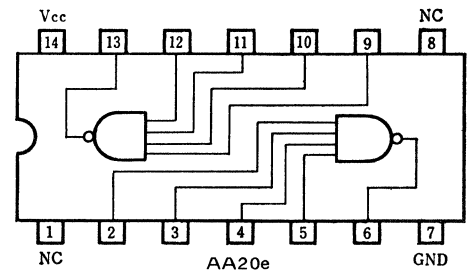
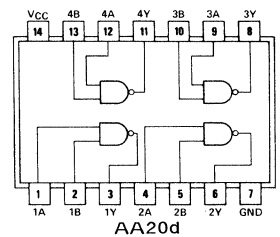
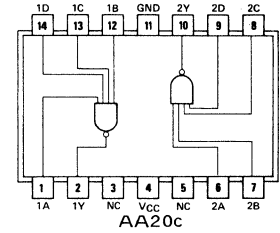
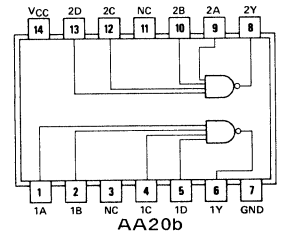
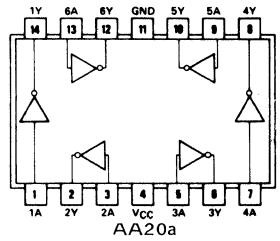
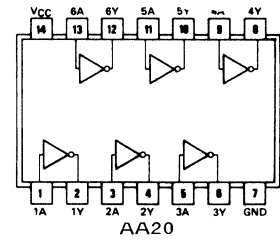
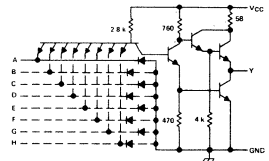
INPUT EQUIVALENT CIRCUIT



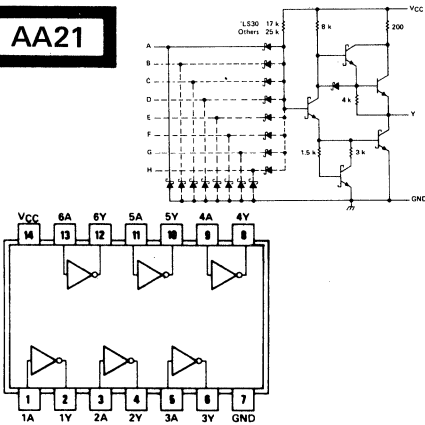
OUTPUT EQUIVALENT CIRCUIT



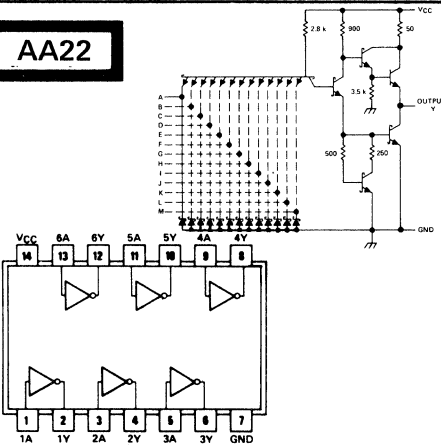
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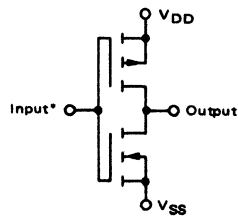
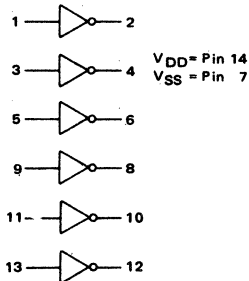
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AA22



AA23

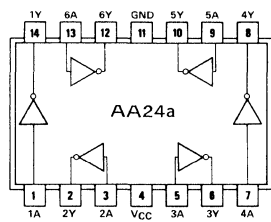
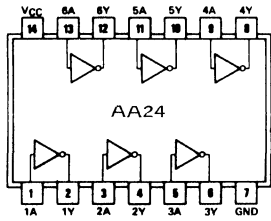
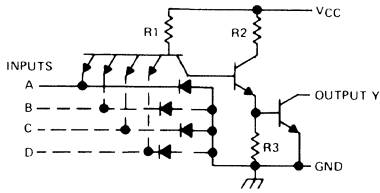


*Double diode protection on all inputs not shown.

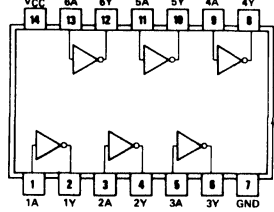
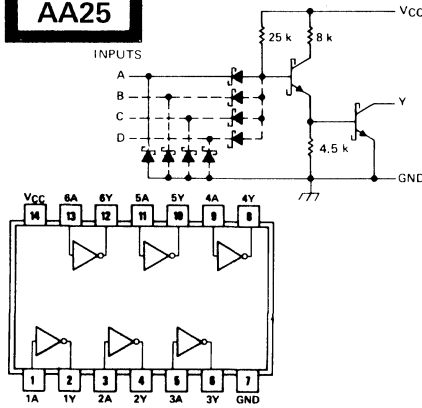
27. LOGIC/BLOCK DRAWINGS

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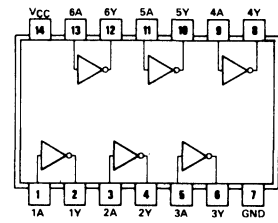
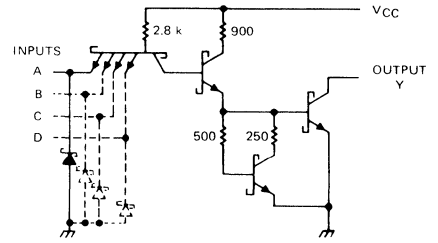
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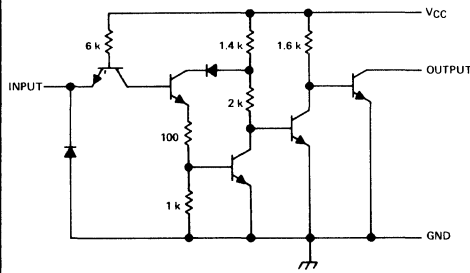
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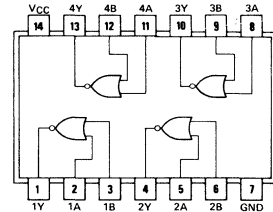
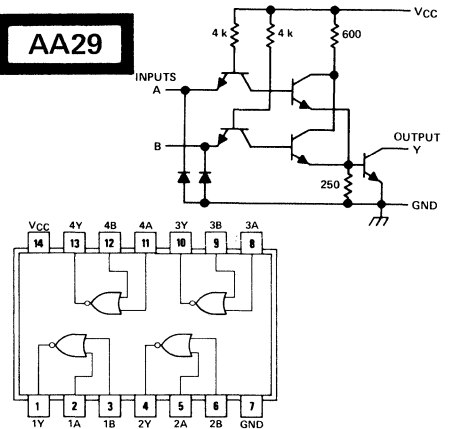
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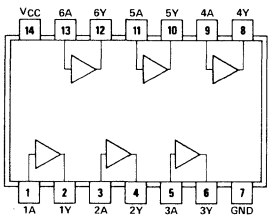
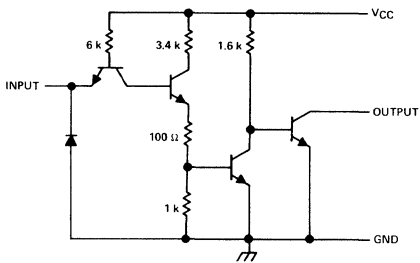
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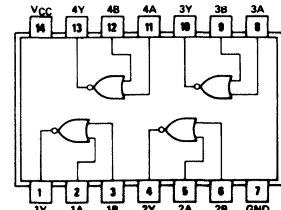
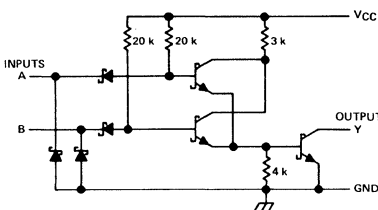
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AA28



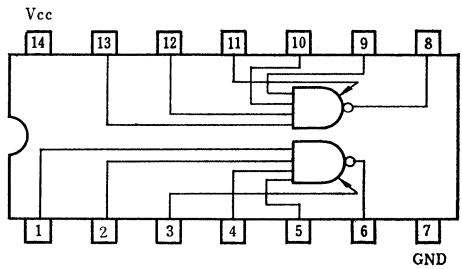
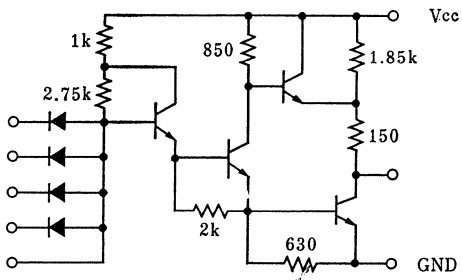
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27. LOGIC/BLOCK DRAWINGS

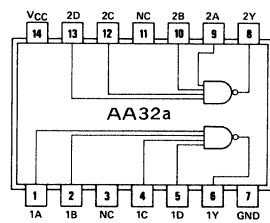
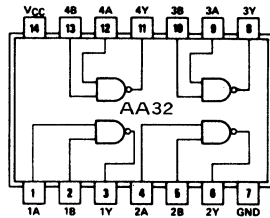
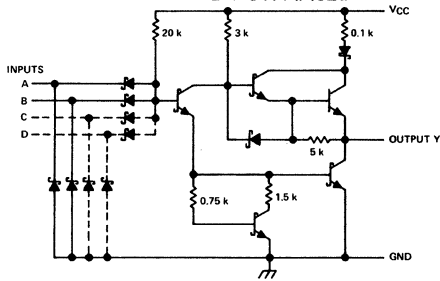
IN DRAWING NUMBER SEQUENCE

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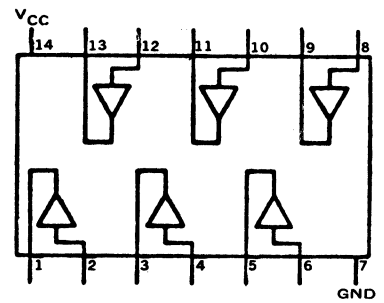


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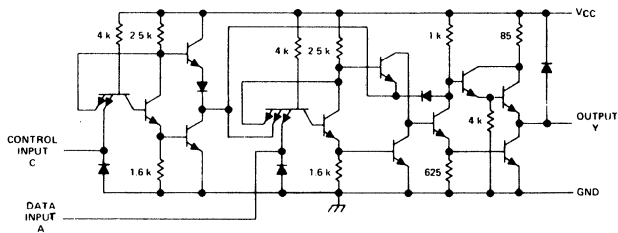
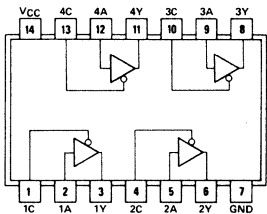
SCHMATIC DRAWING OMITTED FOR AA32a



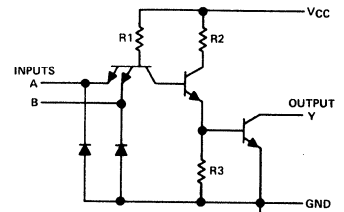
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AA34

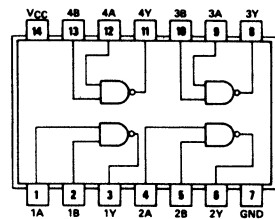


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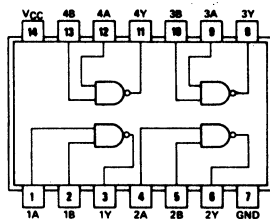
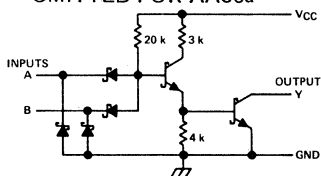
VARIATION I OR II

AA35a — VARIATION I — HAS CLAMPING DIODES
VARIATION II — OMIT CLAMPING DIODES



AA36

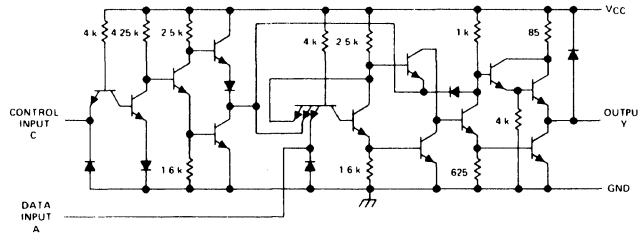
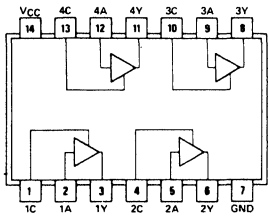
SCHMATIC DRAWING OMITTED FOR AA36a



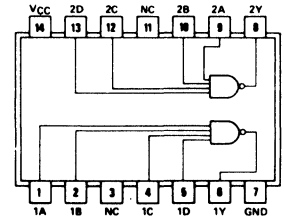
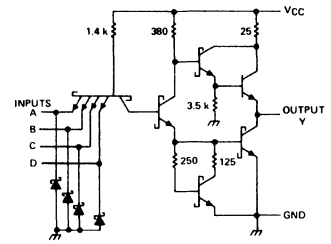
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

AA37

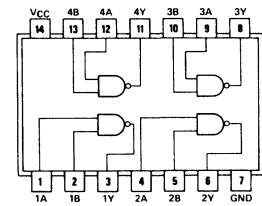


AA38



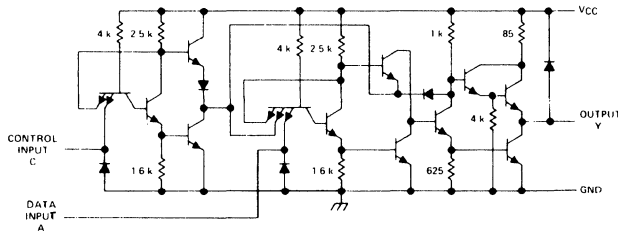
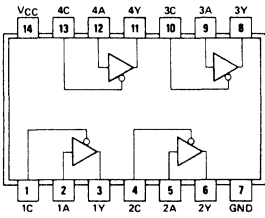
AA38

OMIT SCHEMATIC FOR AA38a

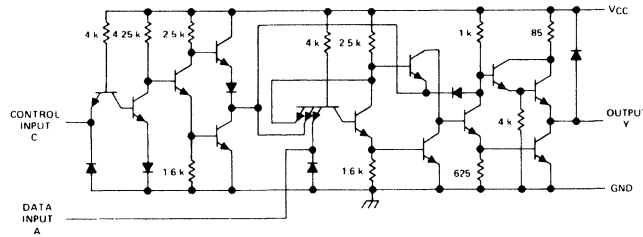
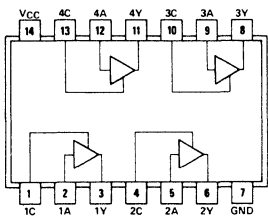


AA38b

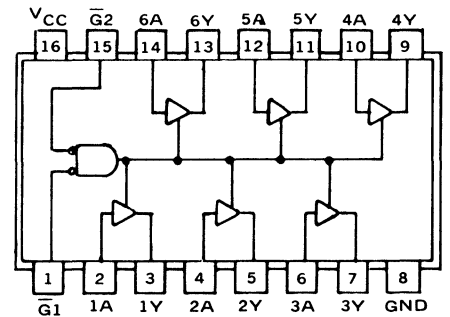
AA39



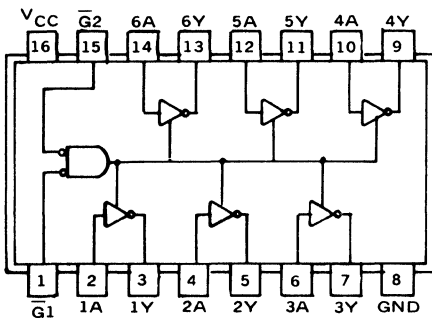
AA40



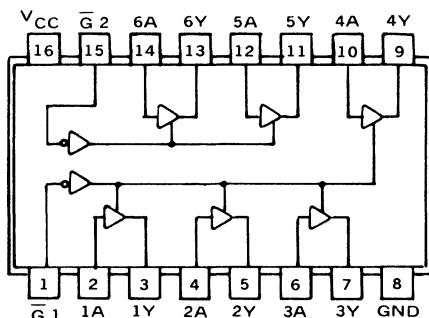
AA41



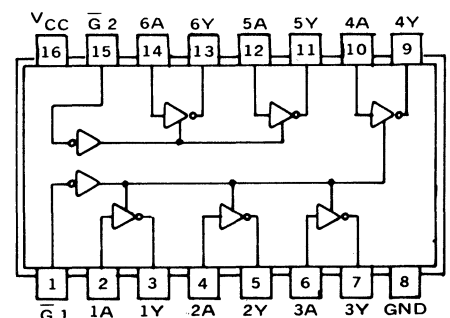
AA42



AA43



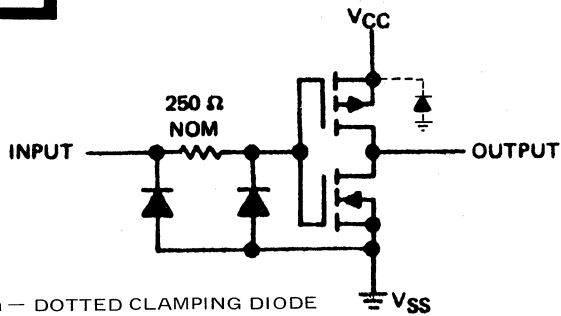
AA44



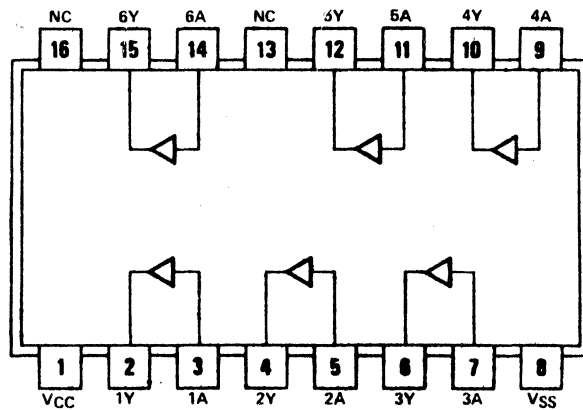
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

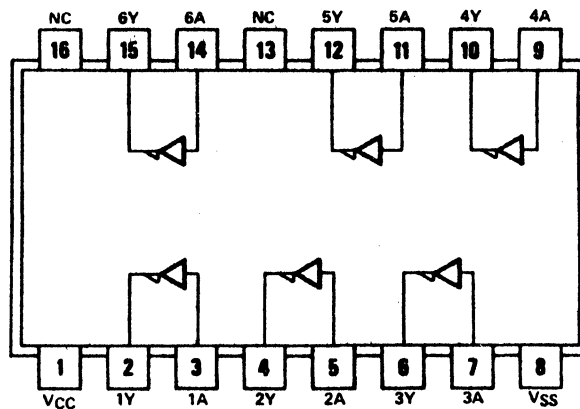
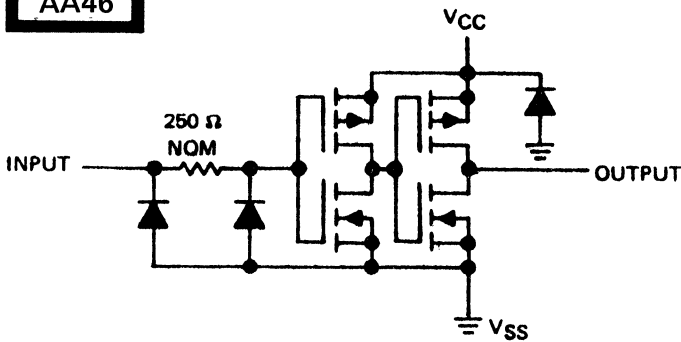
AA45



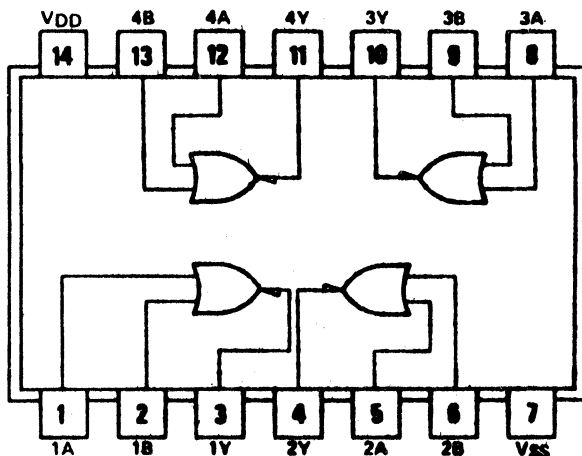
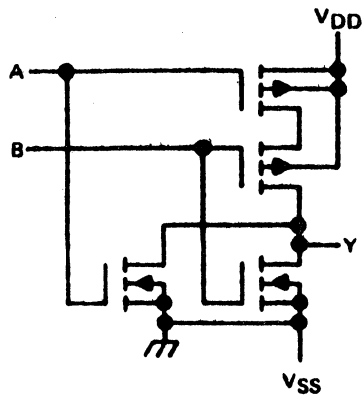
AA45a — DOTTED CLAMPING DIODE
FOR AA45a ONLY.



AA46



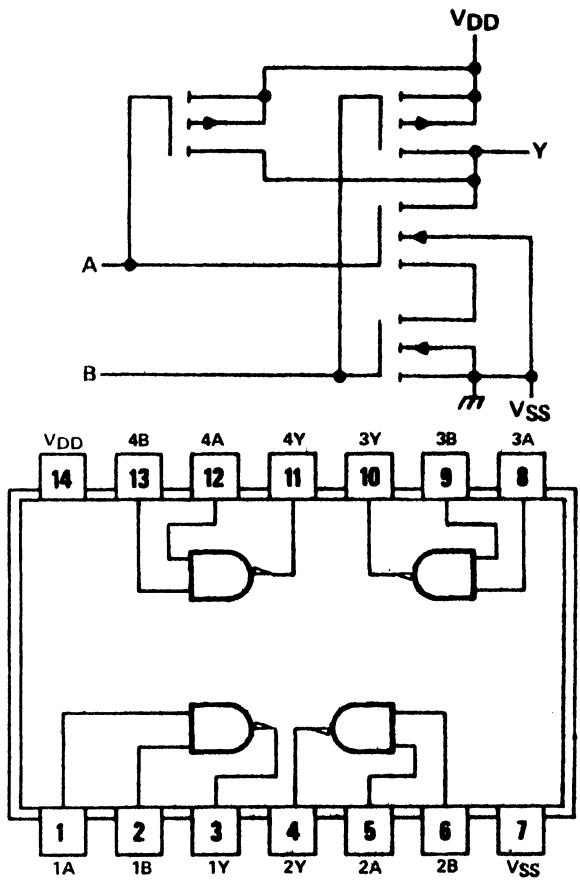
AA47



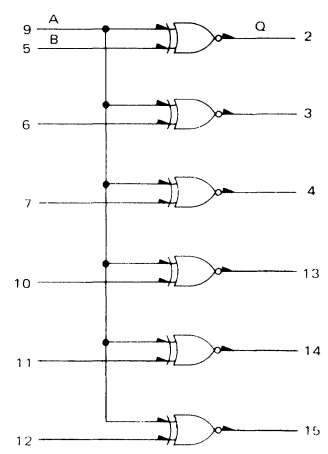
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

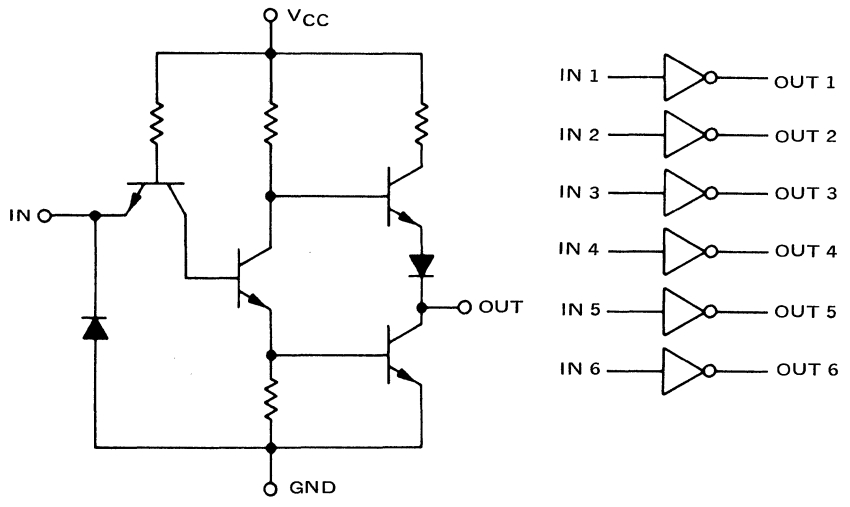
AA48



AA49

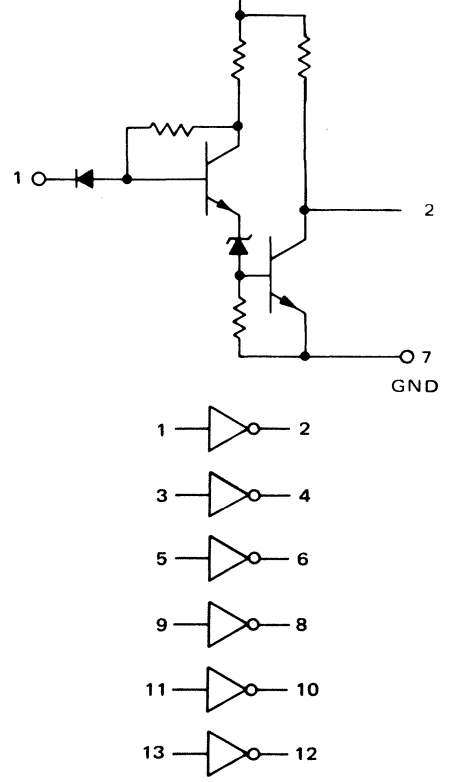


AA50



	In1	In2	In3	In4	In5	In6	Out1	Out2	Out3	Out4	Out5	Out6	Vcc	Gnd
AA50	1	3	5	9	11	13	2	4	6	8	10	12	14	7
AA50a	1	3	5	7	9	13	14	2	6	8	10	12	4	11
AA50b	1	3	6	8	11	13	2	5	7	9	12	14	4	10

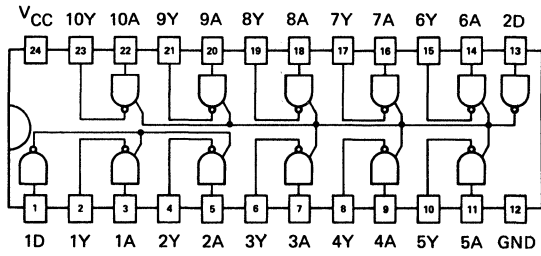
AA51



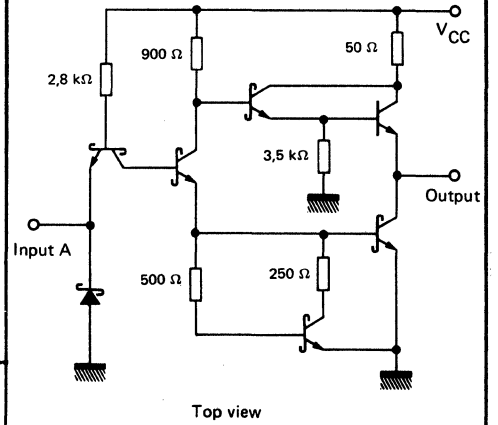
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

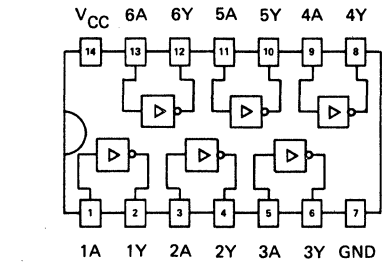
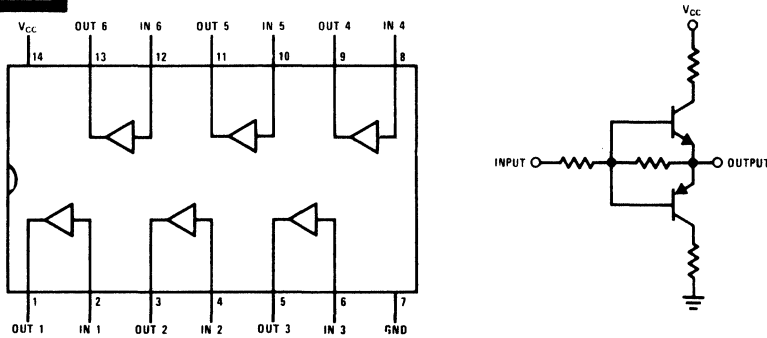
AA52



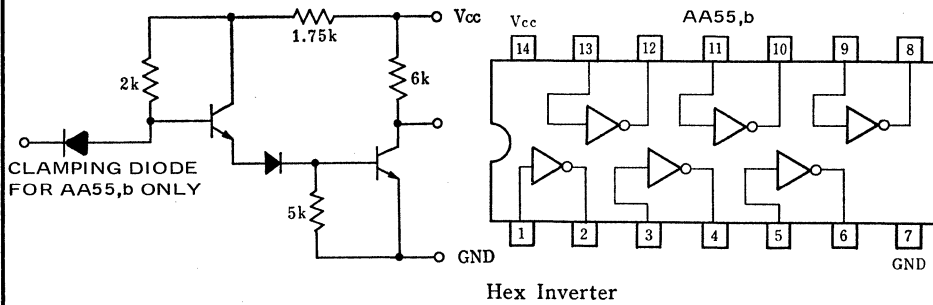
AA53



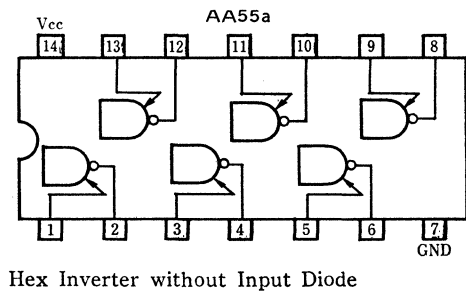
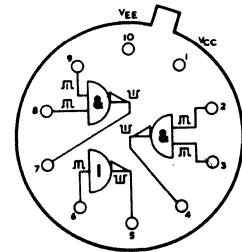
AA54



AA55



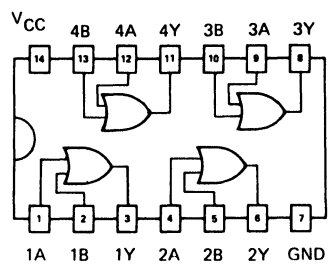
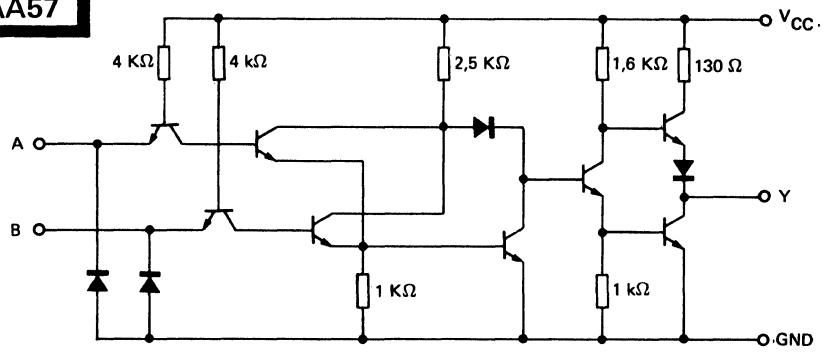
AA56



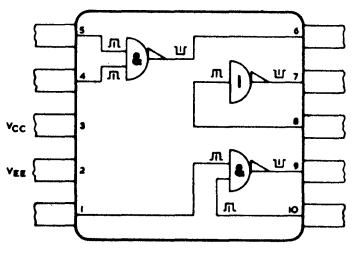
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

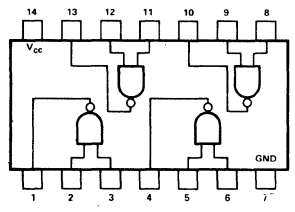
AA57



AA58

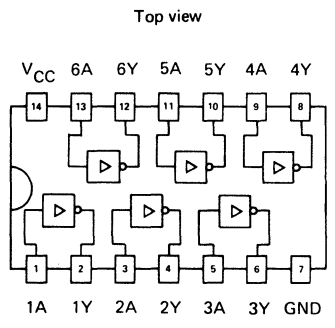
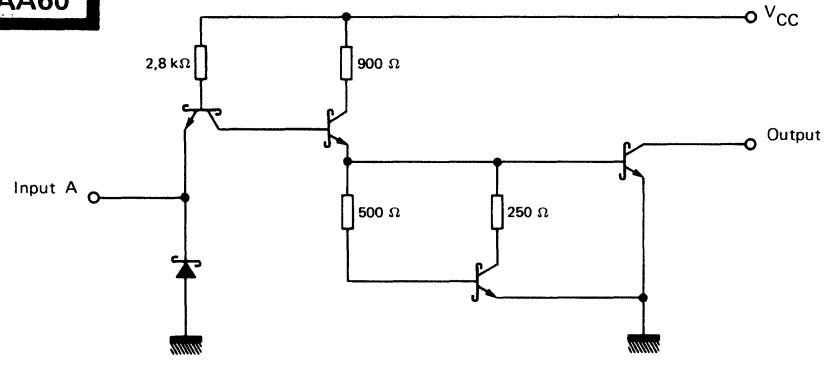


AA59



[Empty]

AA60



[Empty]

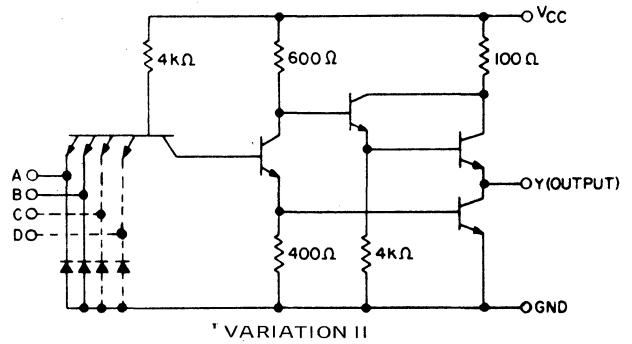
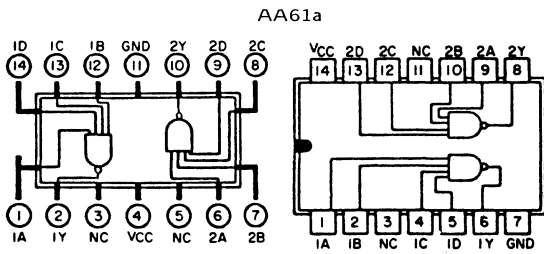
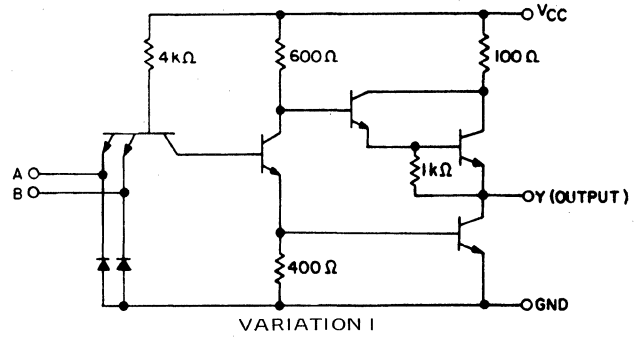
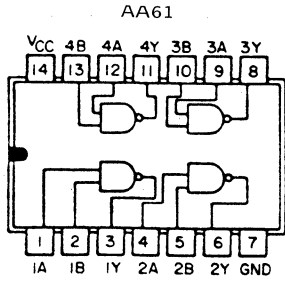
[Empty]

[Empty]

27. LOGIC/BLOCK DRAWINGS

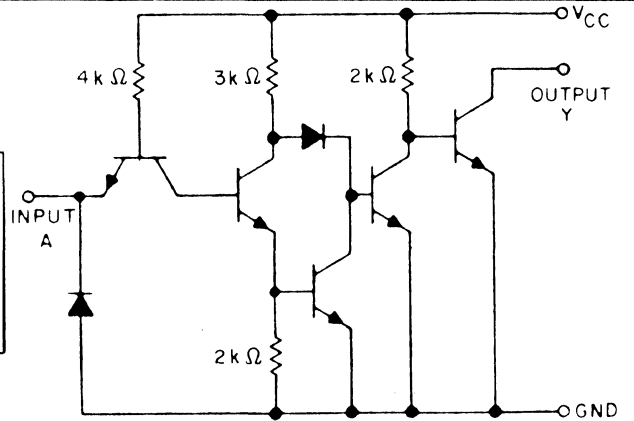
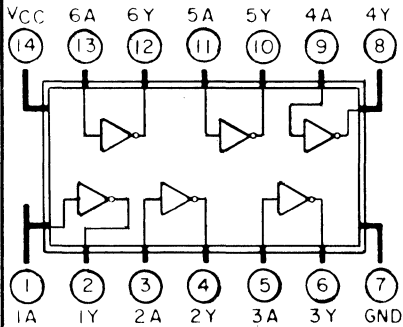
IN DRAWING NUMBER SEQUENCE

AA61

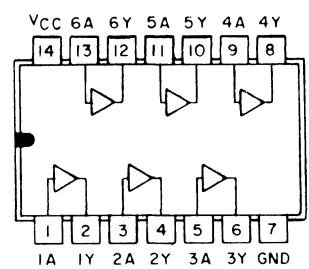
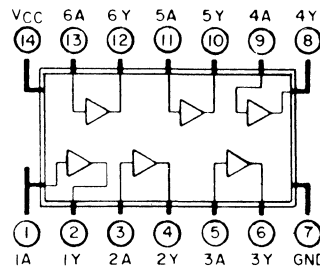
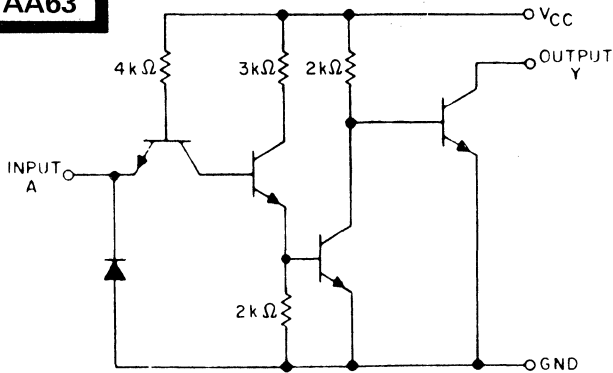


AA61a
VARIATION I ONLY.

AA62



AA63

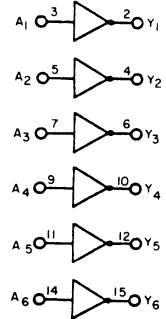
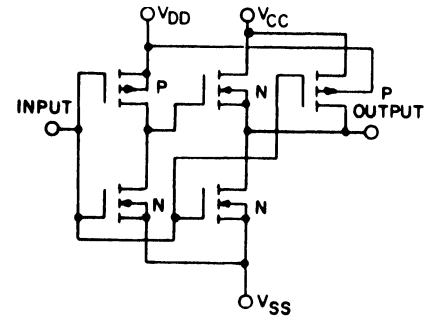
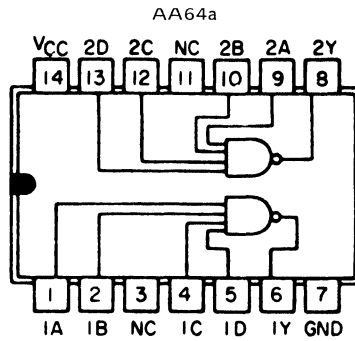
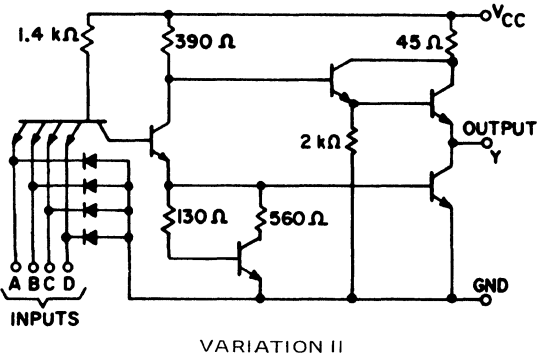
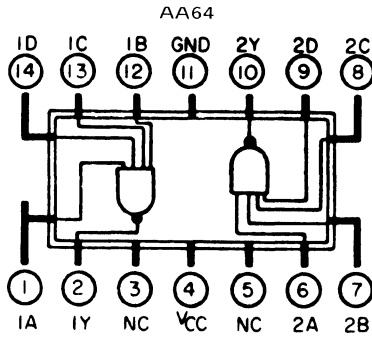
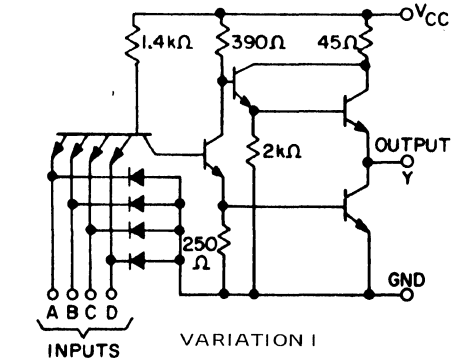


27. LOGIC/BLOCK DRAWINGS

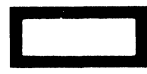
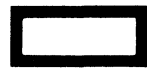
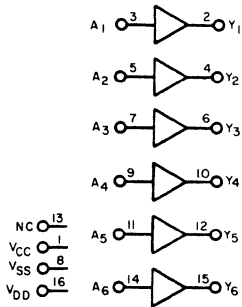
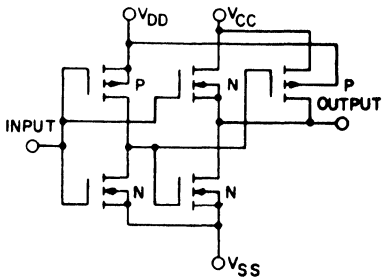
IN DRAWING NUMBER SEQUENCE

AA64

AA65



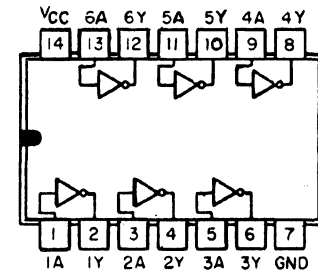
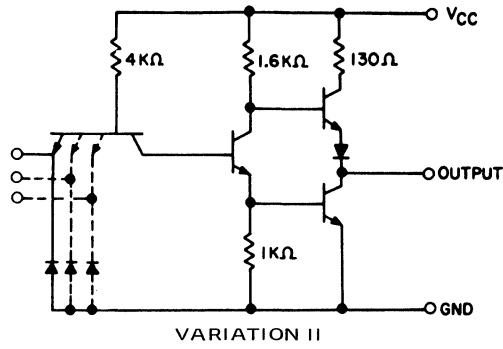
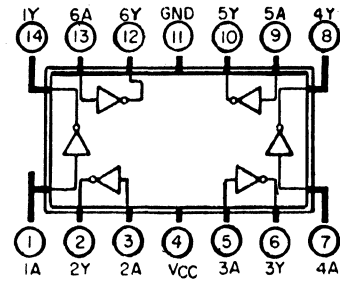
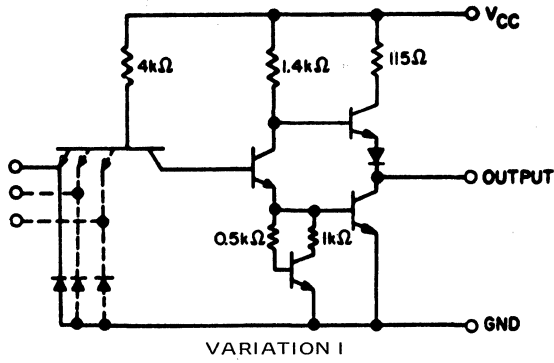
AA66



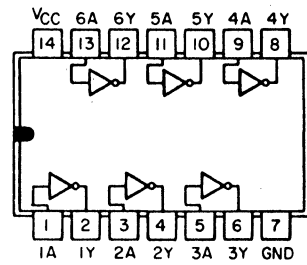
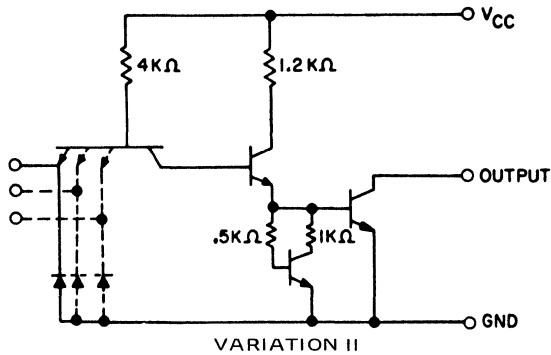
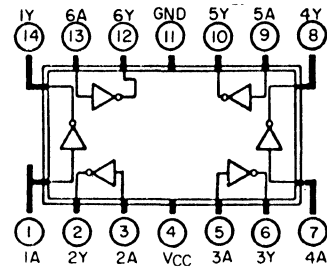
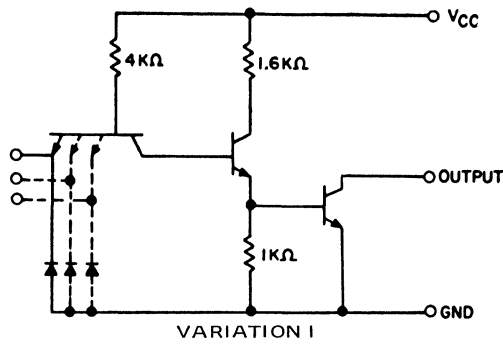
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

AA67



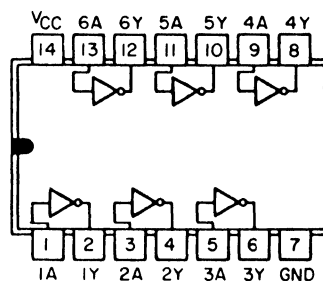
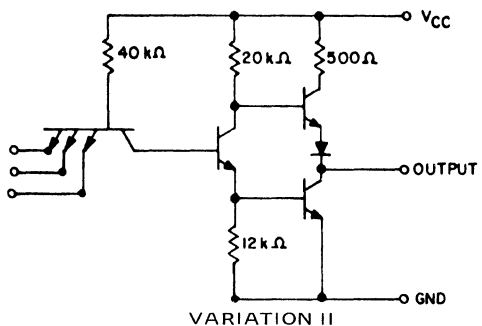
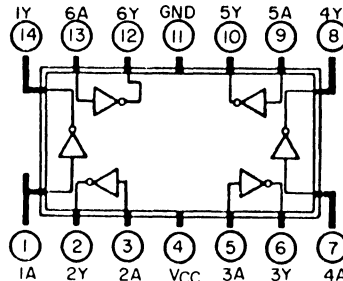
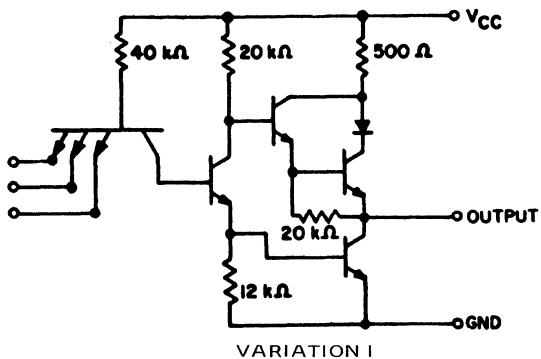
AA68



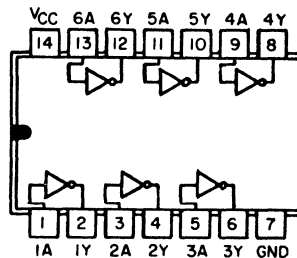
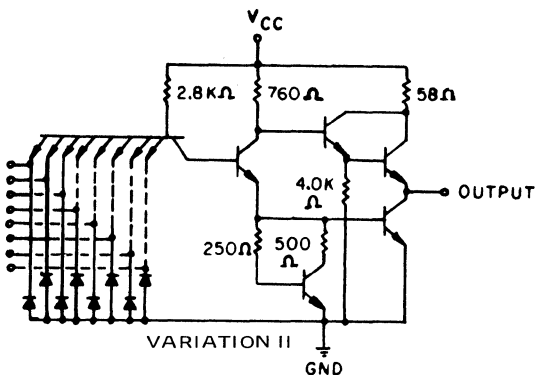
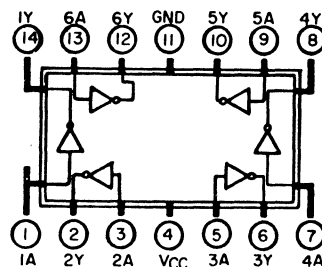
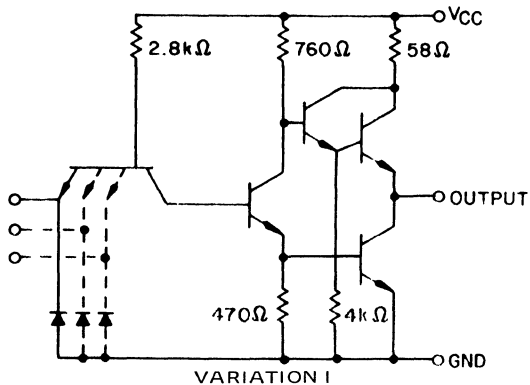
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

AA69



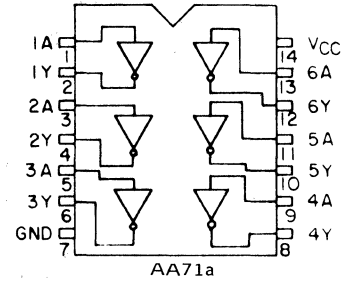
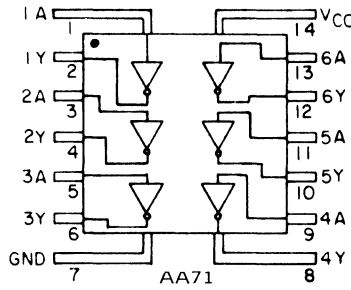
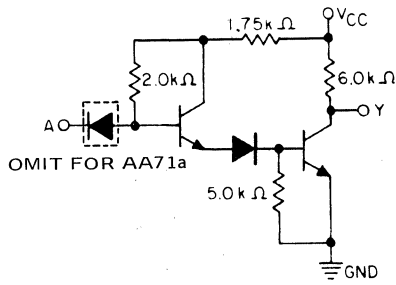
AA70



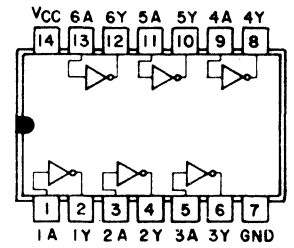
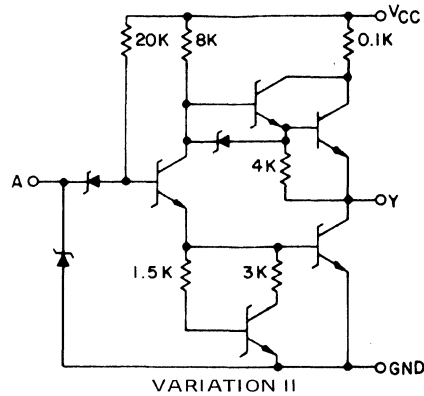
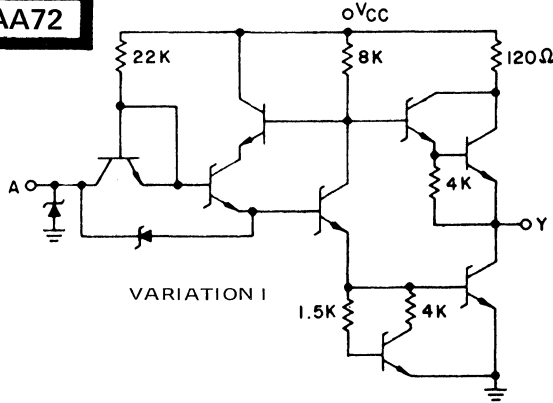
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

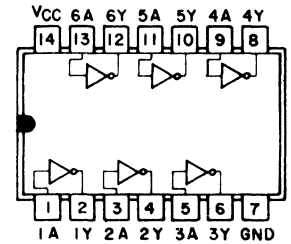
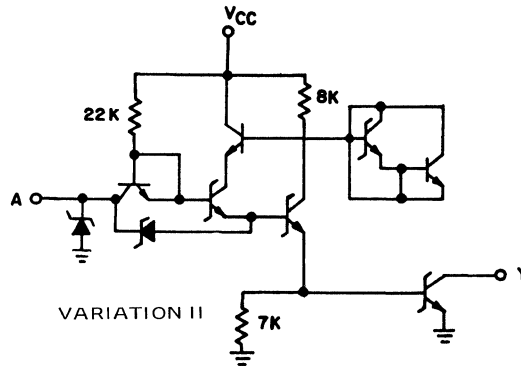
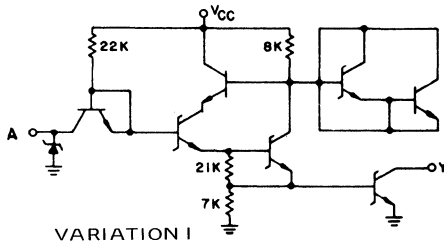
AA71



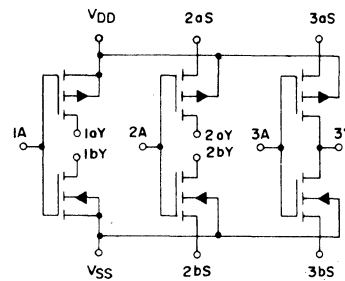
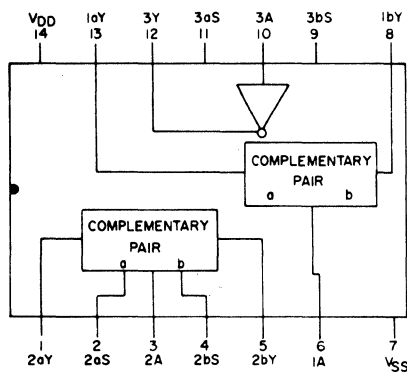
AA72



AA73



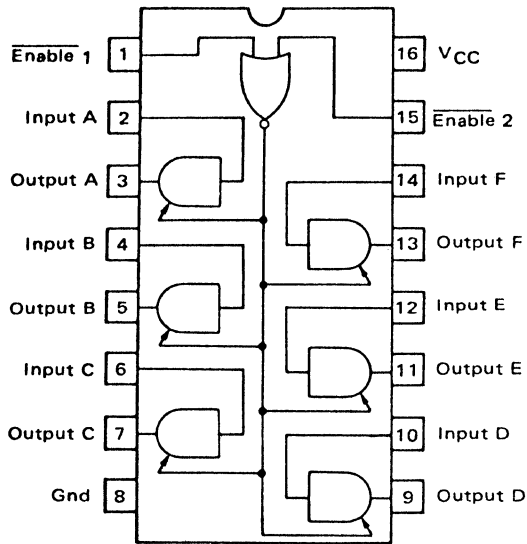
AA74



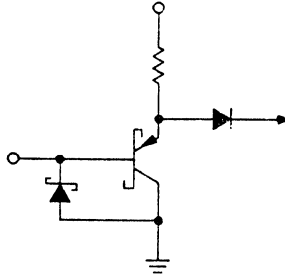
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

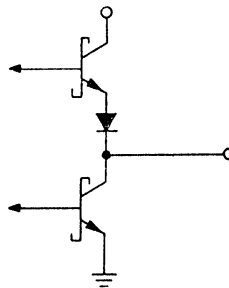
AA75



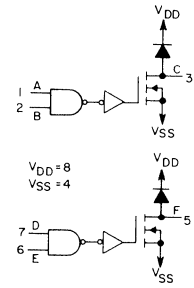
INPUT EQUIVALENT CIRCUIT



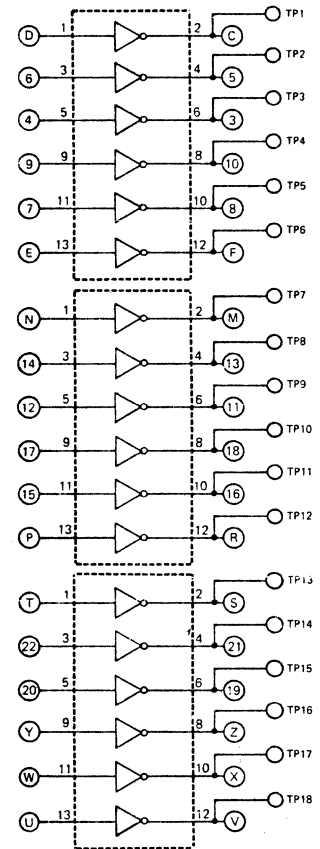
OUTPUT EQUIVALENT CIRCUIT



AA76



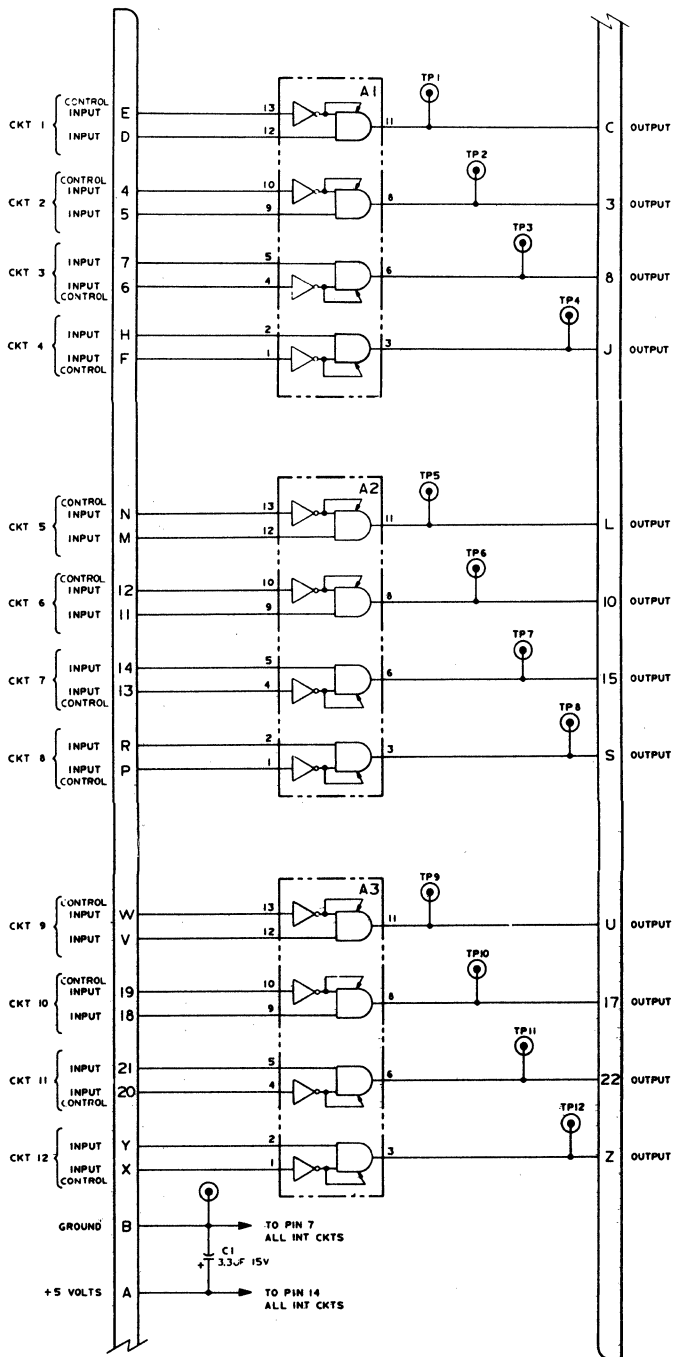
AA77



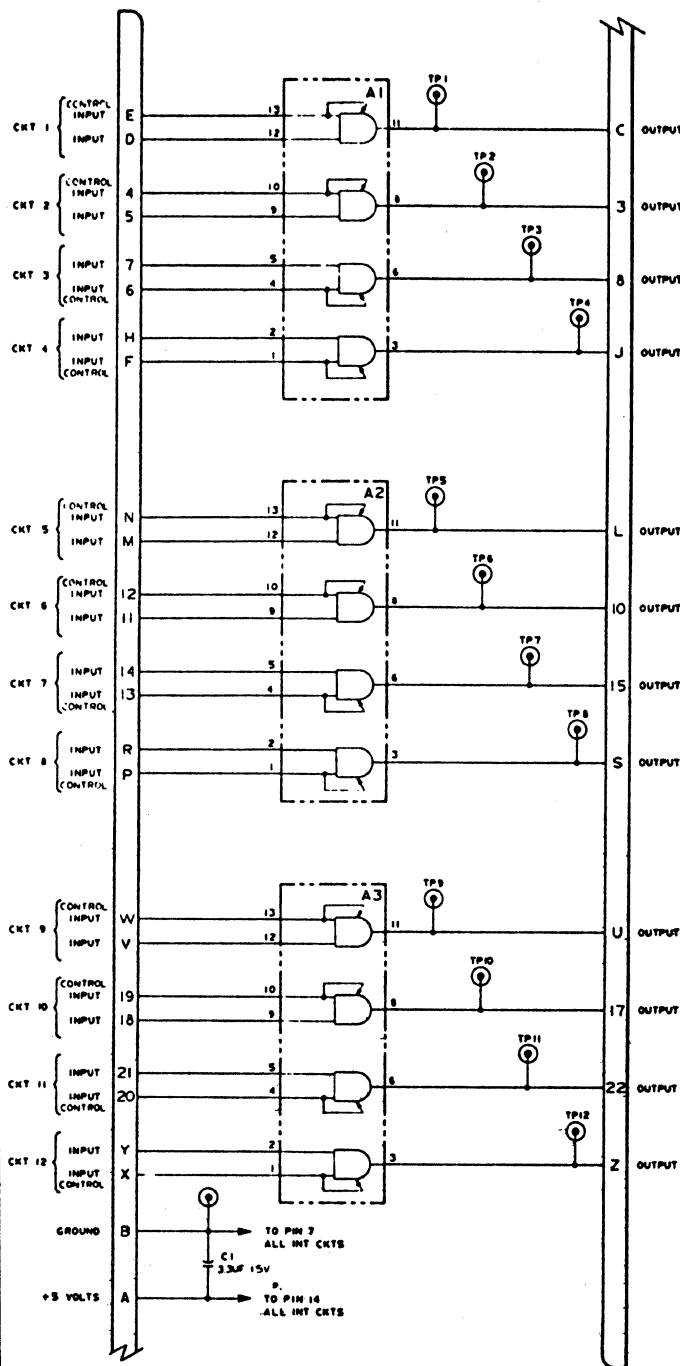
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

AA78



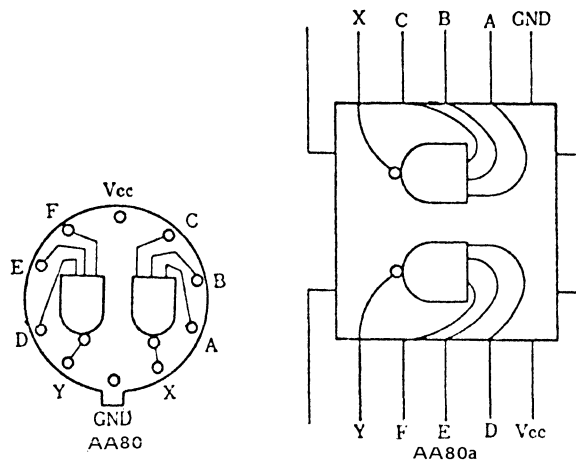
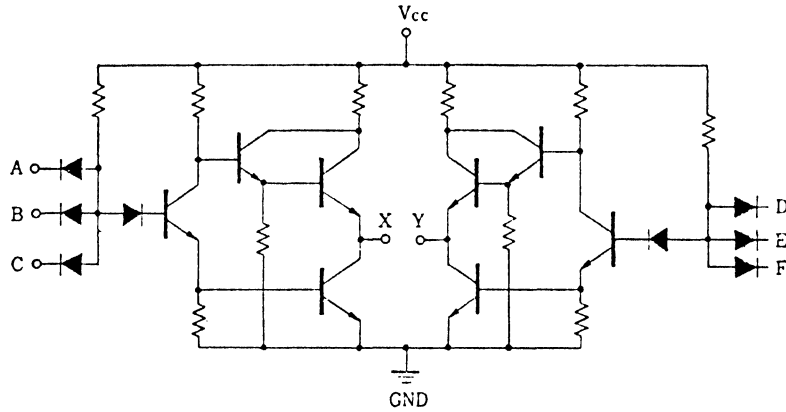
AA79



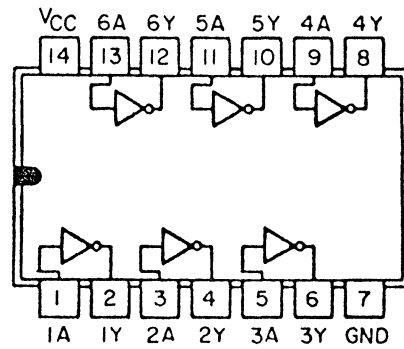
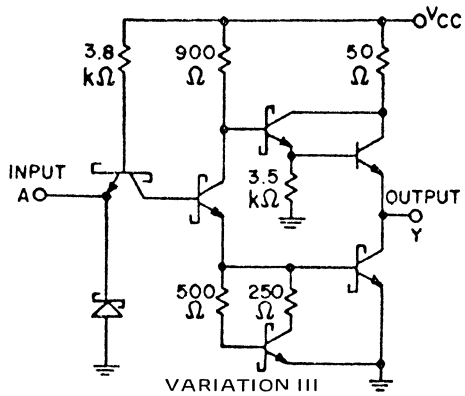
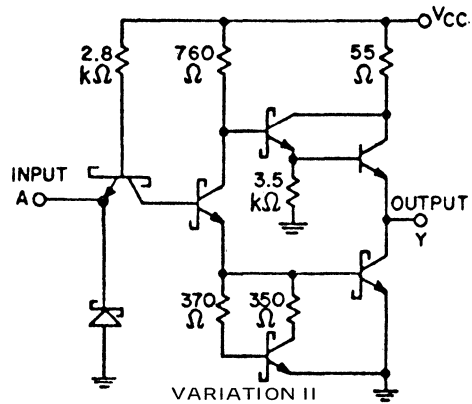
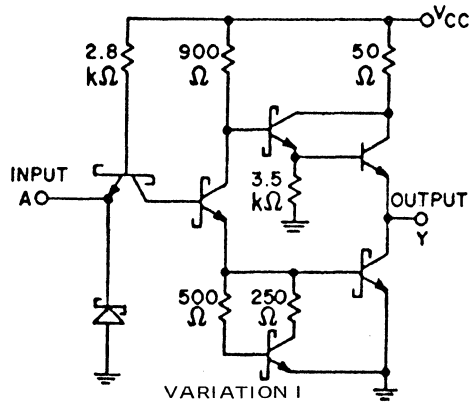
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

AA80



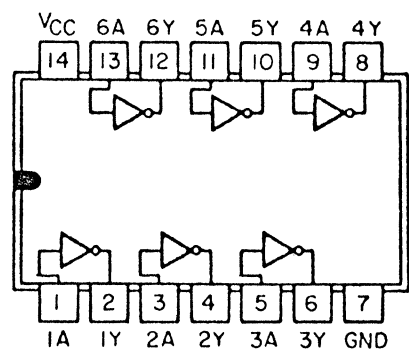
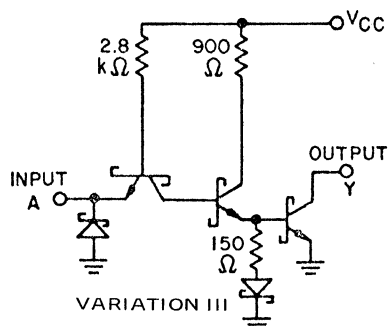
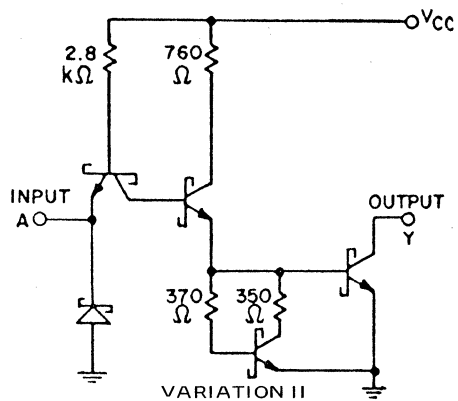
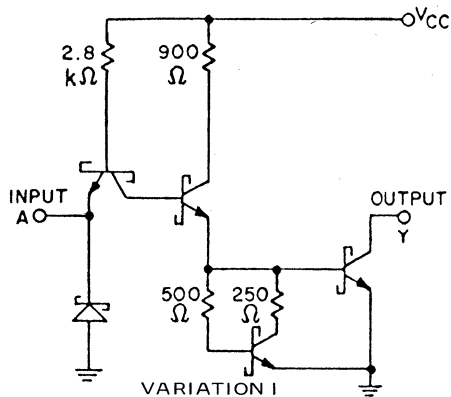
AA81



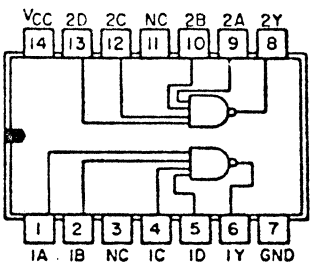
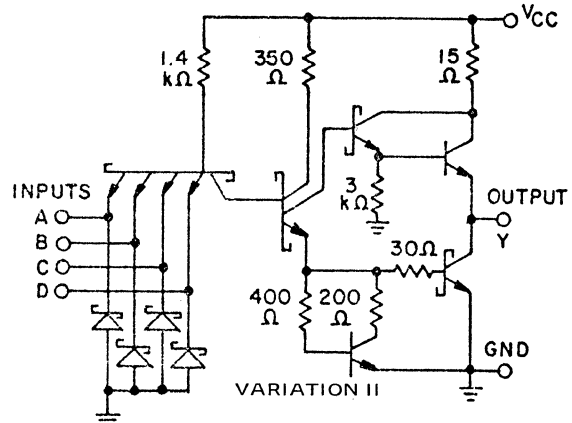
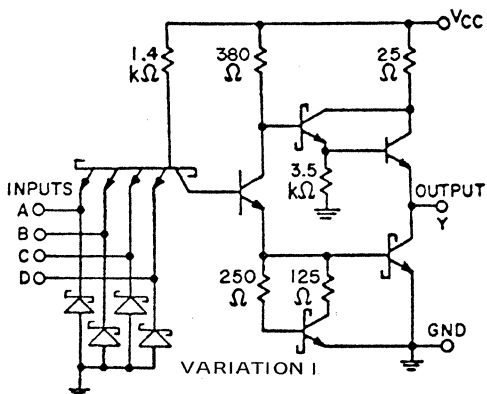
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

AA82



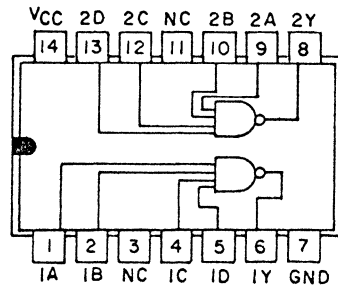
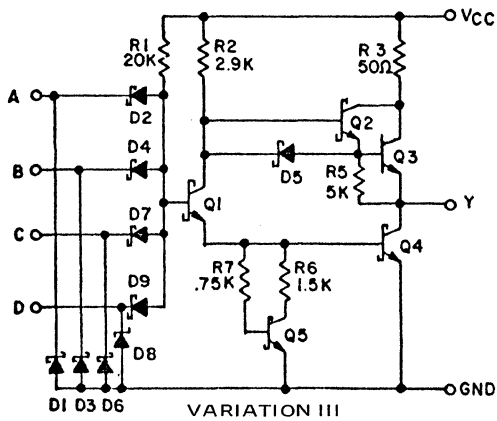
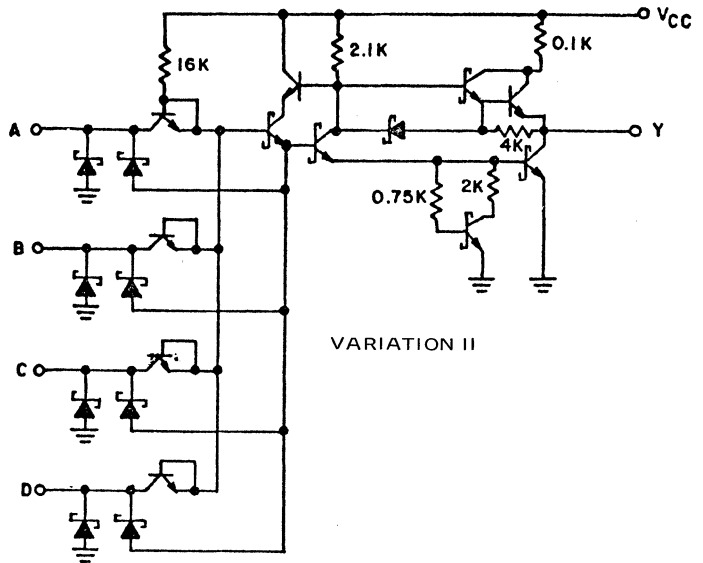
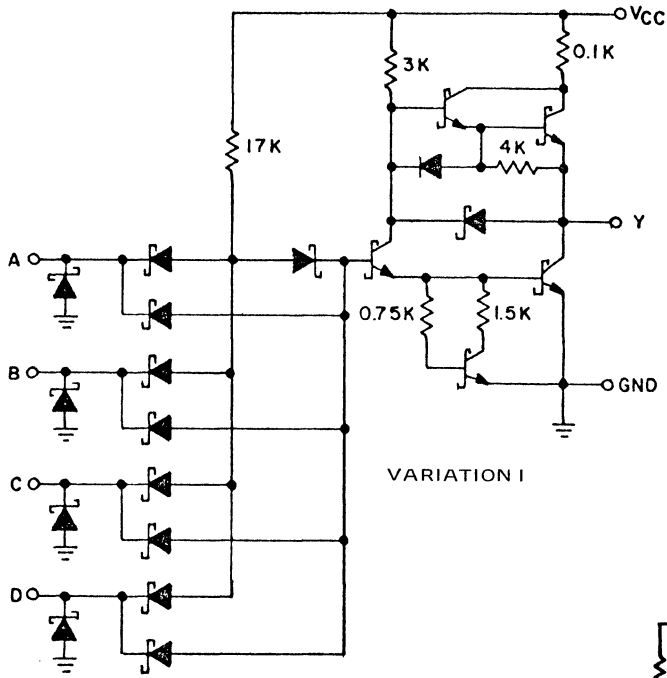
AA83



27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

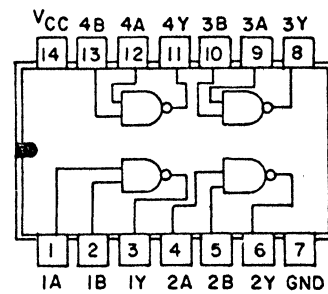
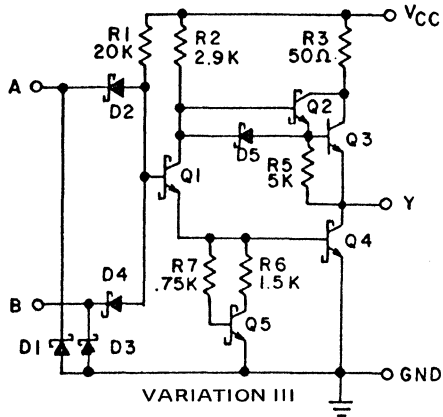
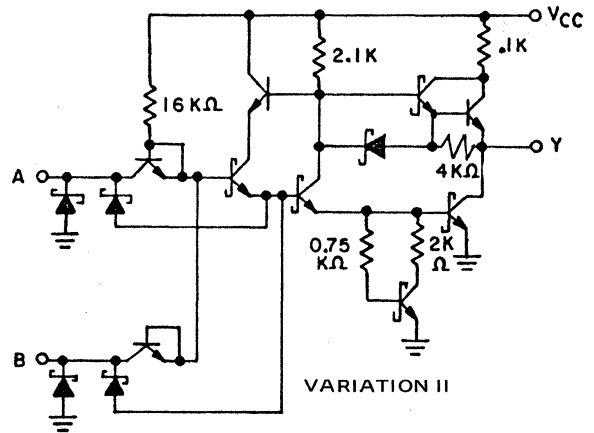
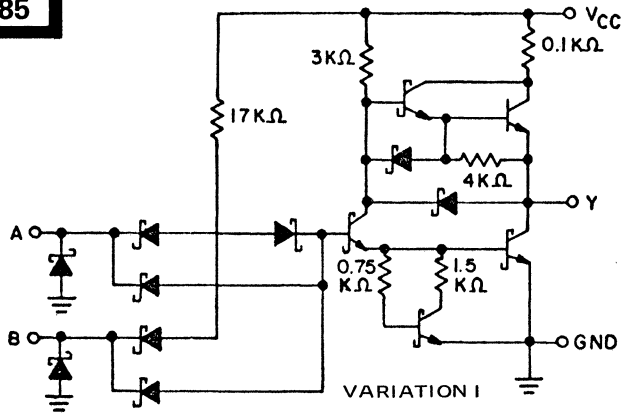
AA84



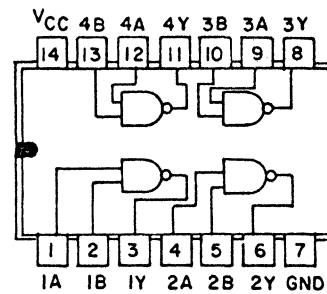
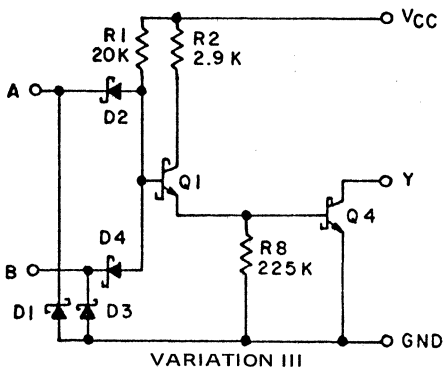
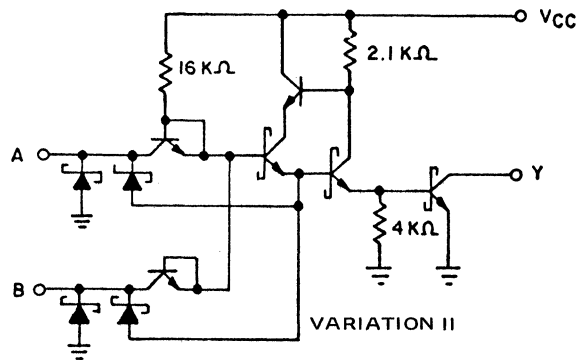
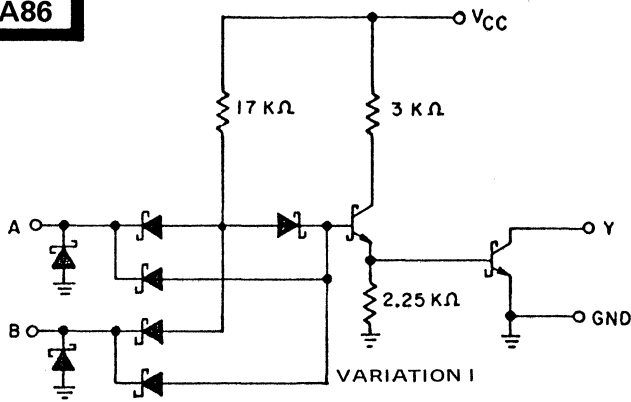
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

AA85



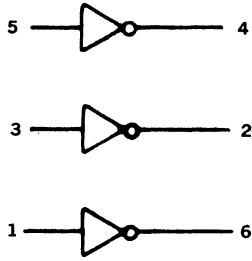
AA86



27. LOGIC/BLOCK DRAWINGS

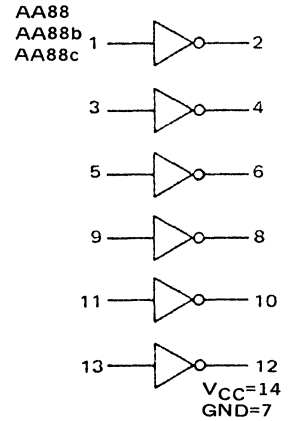
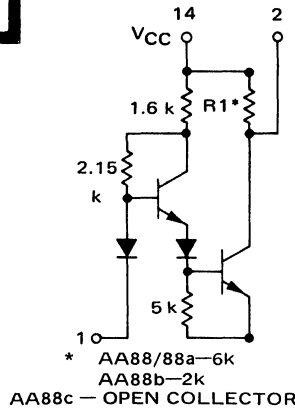
IN DRAWING NUMBER SEQUENCE

AA87



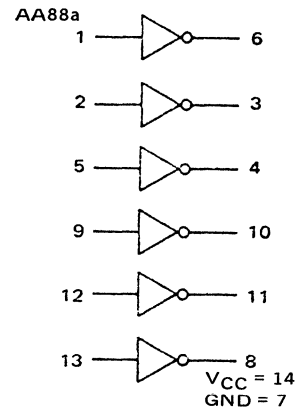
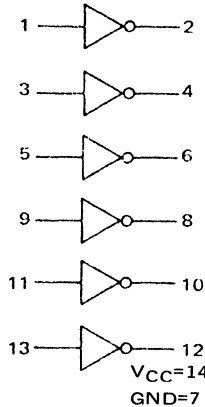
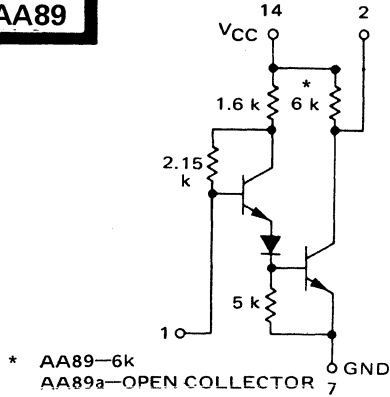
AA88

1/6 OF CIRCUIT SHOWN



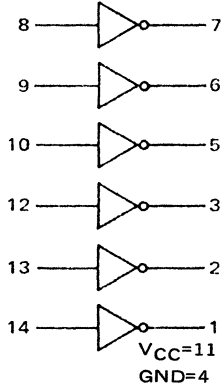
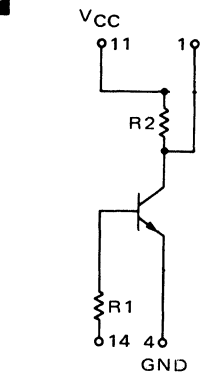
AA89

1/6 OF CIRCUIT SHOWN

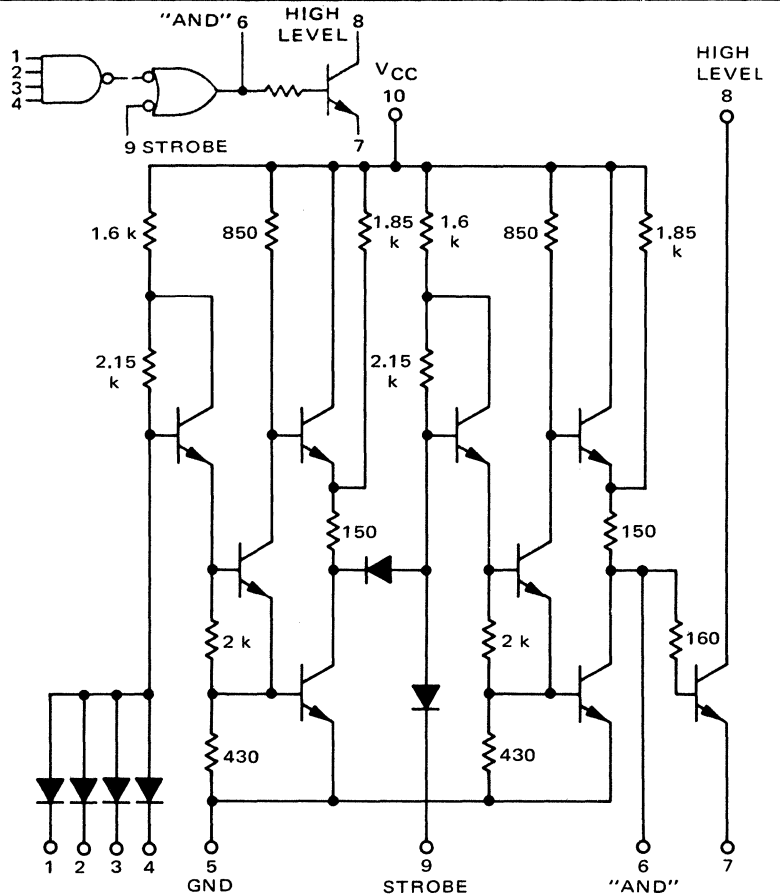


AA90

1/6 OF CIRCUIT SHOWN



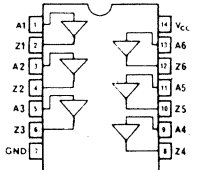
AA91



27. LOGIC/BLOCK DRAWINGS

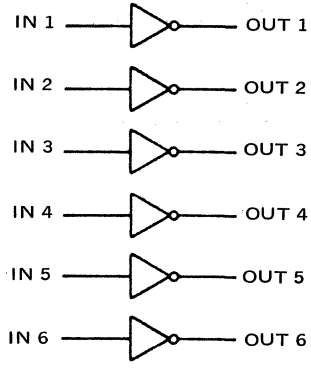
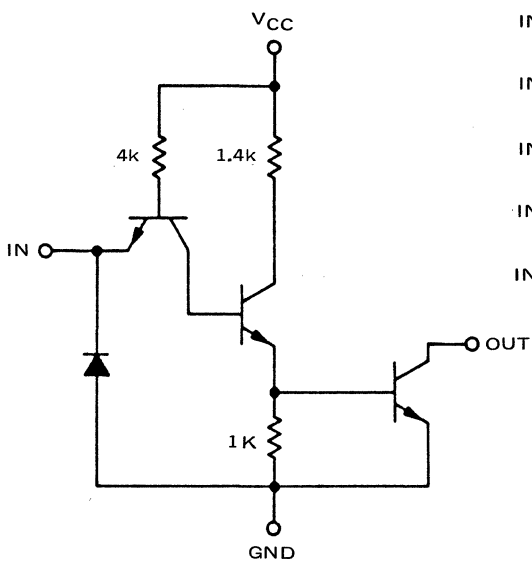
IN DRAWING NUMBER
SEQUENCE

AA92



AA93

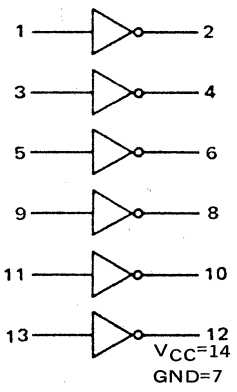
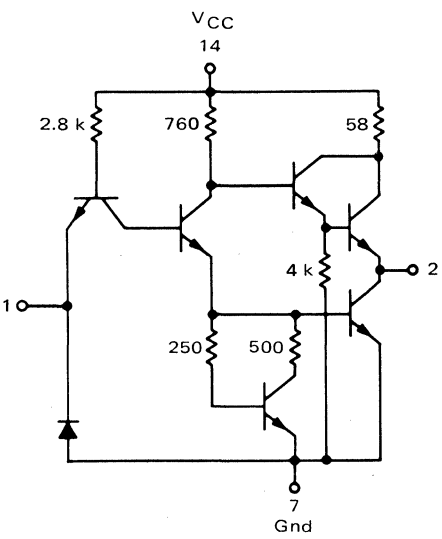
1/6 OF CIRCUIT SHOWN



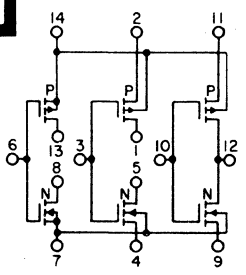
	In1	In2	In3	In4	In5	In6	Out1	Out2	Out3	Out4	Out5	Out6	Vcc	Gnd
AA93	1	3	5	7	9	13	14	2	6	8	10	12	4	11
AA93a	1	3	5	9	11	13	2	4	6	8	10	12	14	7

AA94

1/6 OF CIRCUIT SHOWN



AA95



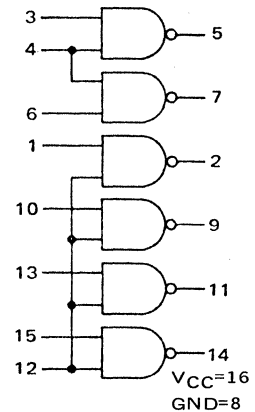
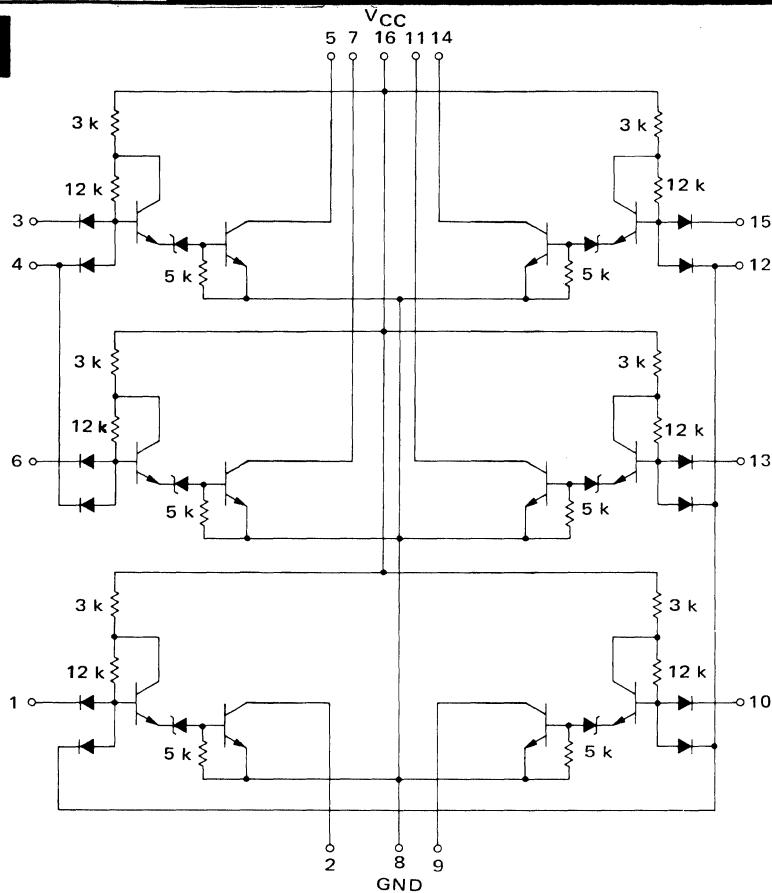
Terminal No. 14 = V_{DD}
Terminal No. 7 = V_{SS}



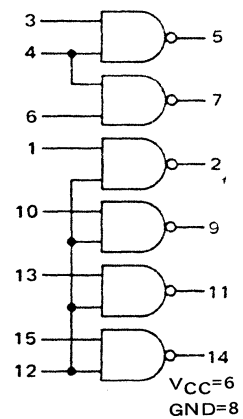
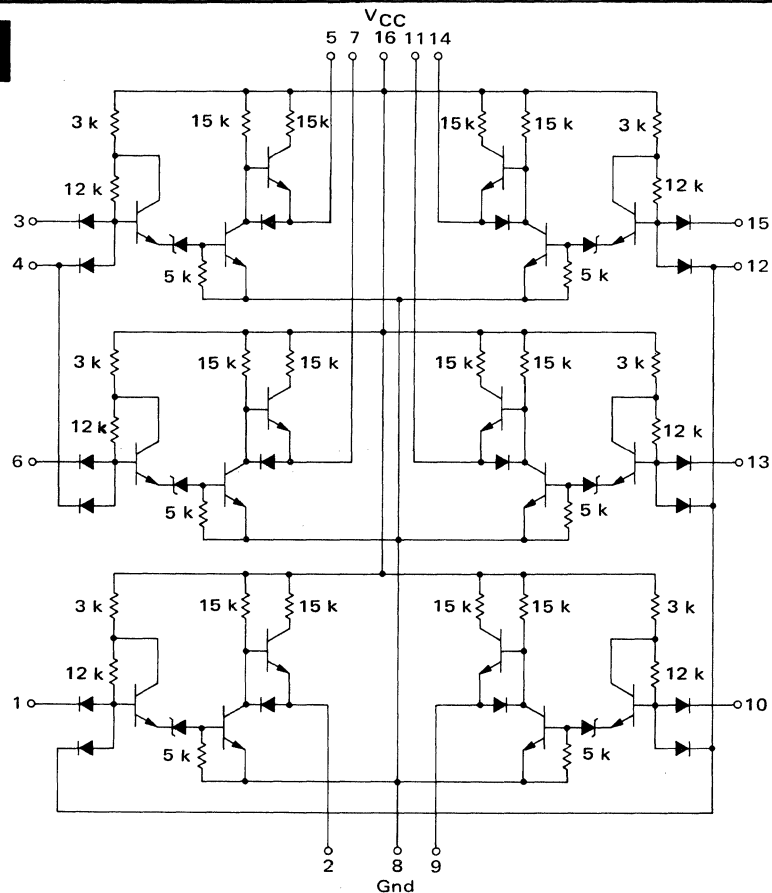
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

AA96



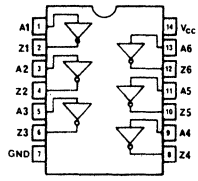
AA97



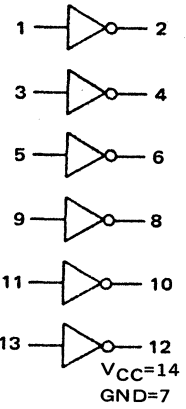
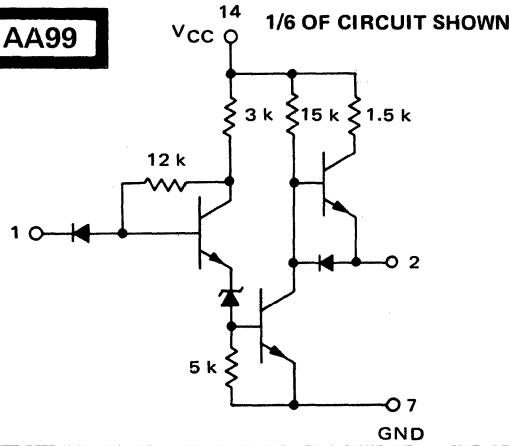
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

AA98

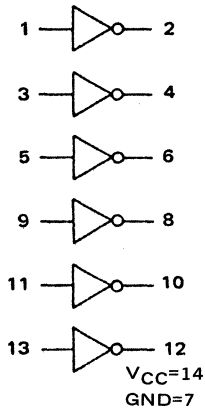
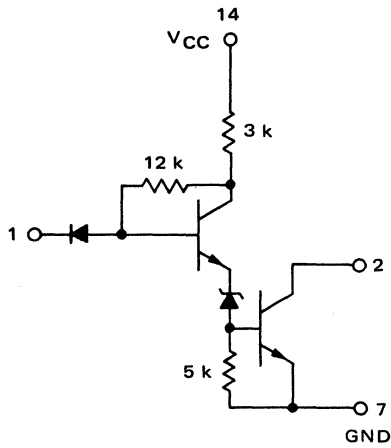


AA99



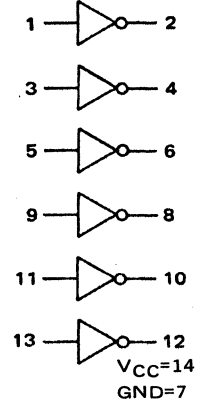
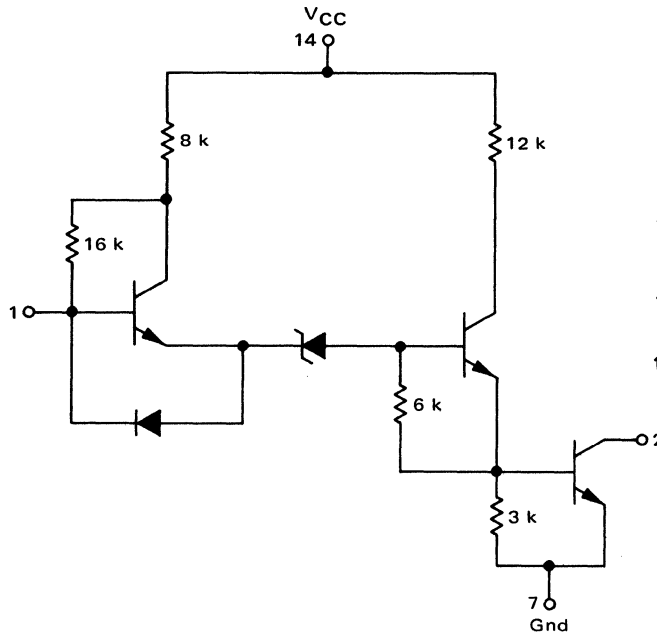
AA100

1/6 OF CIRCUIT SHOWN



AA101

(1/6 OF CIRCUIT SHOWN)

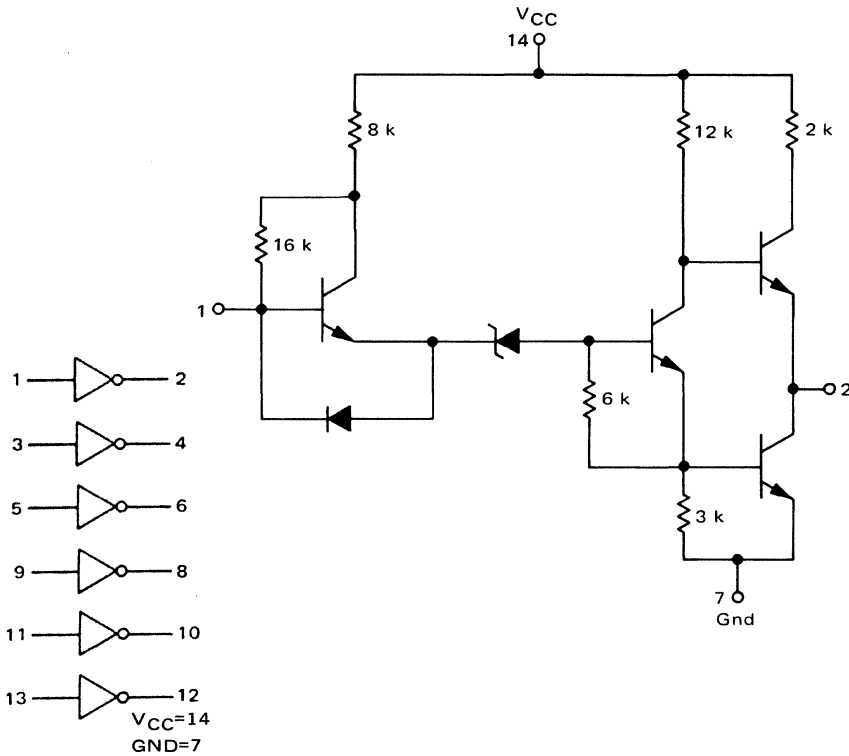


27. LOGIC/BLOCK DRAWINGS

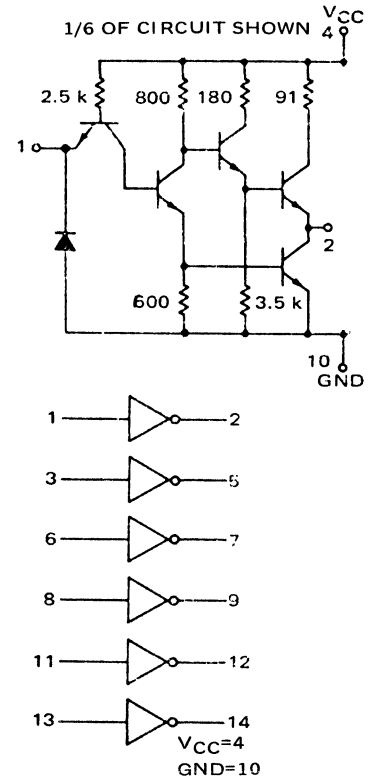
IN DRAWING NUMBER SEQUENCE

AA102

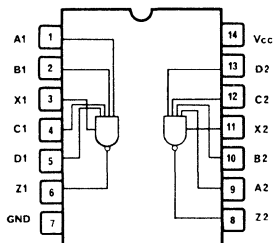
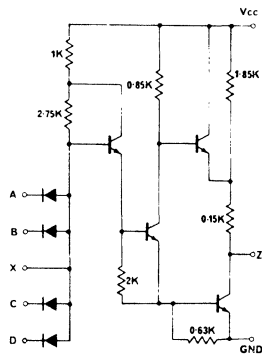
(1/6 OF CIRCUIT SHOWN)



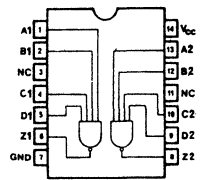
AA103



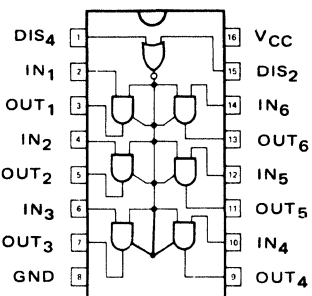
AA104



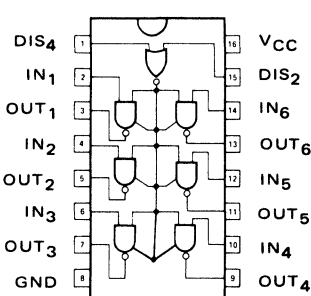
AA105



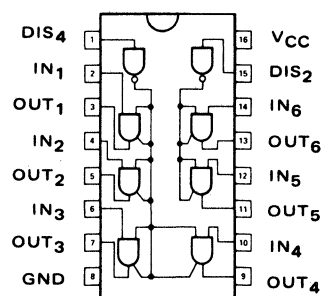
AA106



AA107



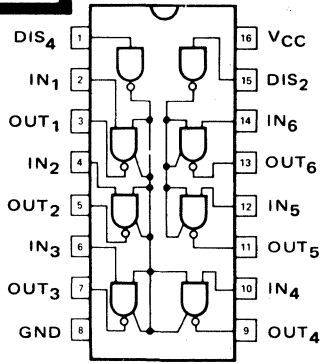
AA108



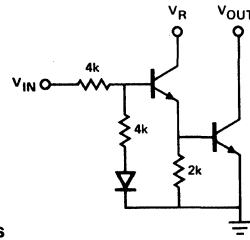
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

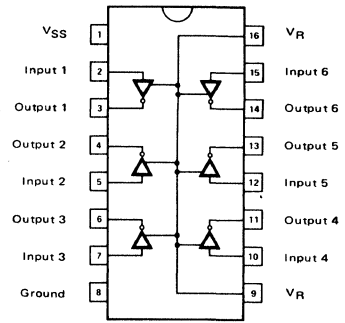
AA109



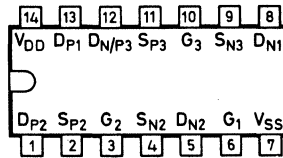
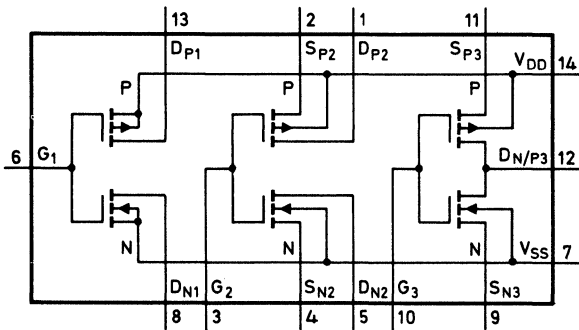
AA110



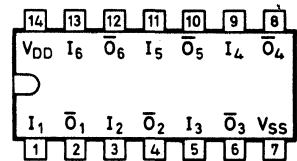
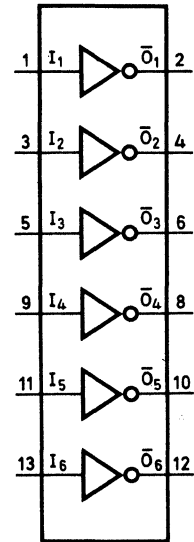
EACH OF 6 DRIVERS



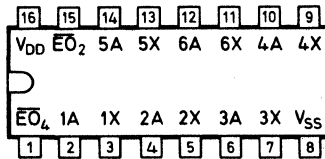
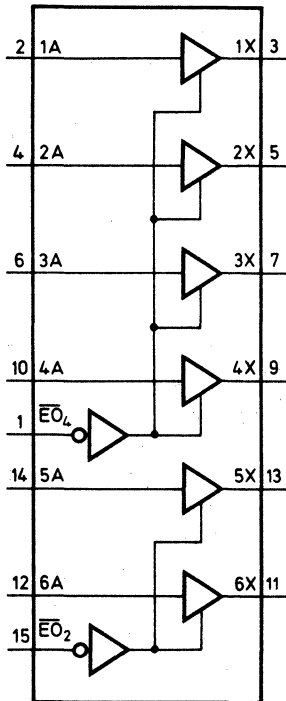
AA111



AA112



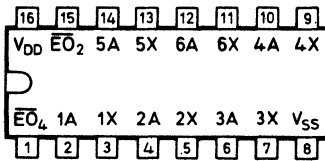
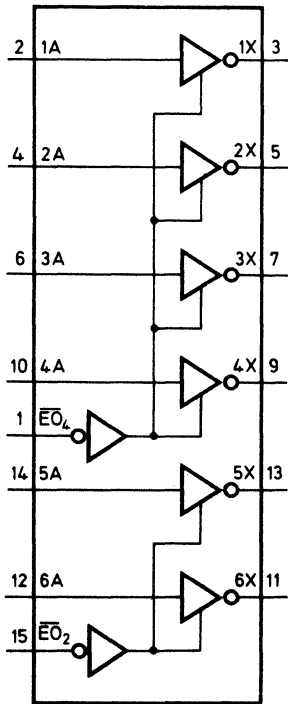
AA113



27. LOGIC/BLOCK DRAWINGS

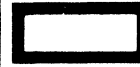
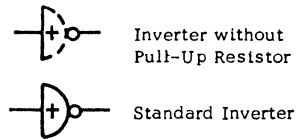
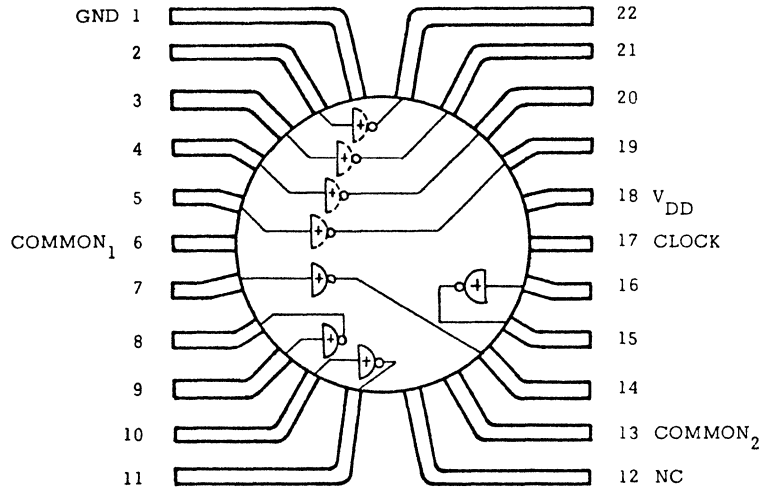
IN DRAWING NUMBER
SEQUENCE

AA114



AA115

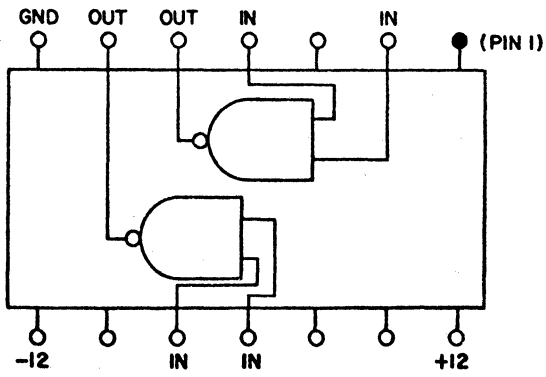
TOP VIEW



27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

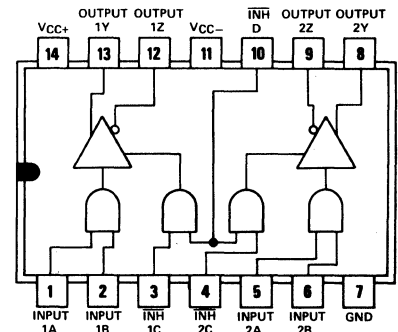
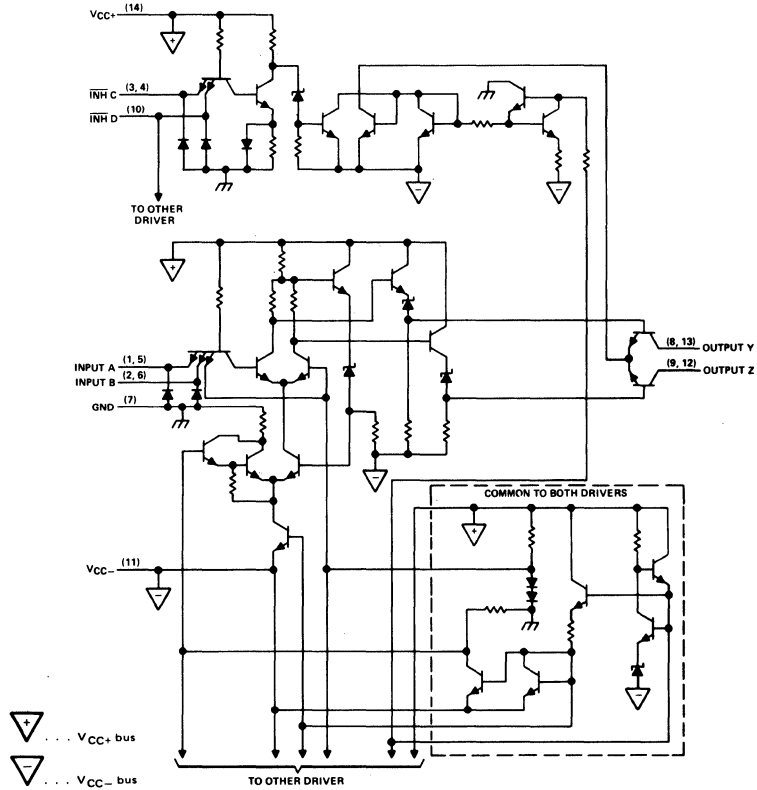
AB1



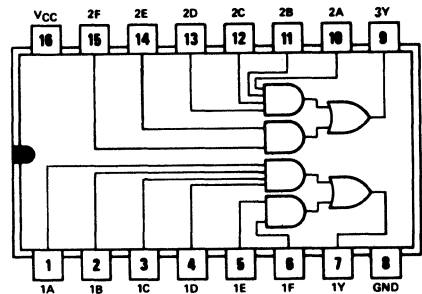
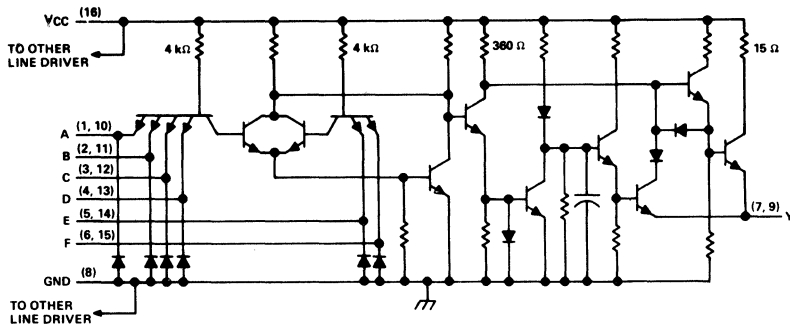
TOP VIEW

AB2

schematic (each driver)



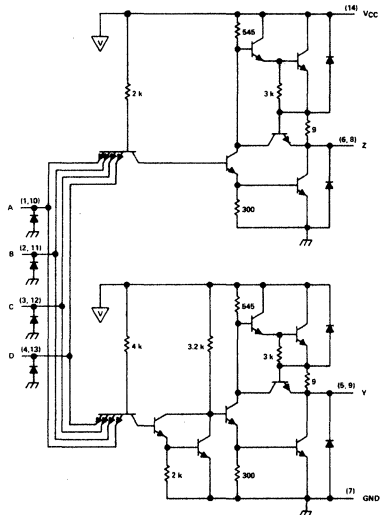
AB3



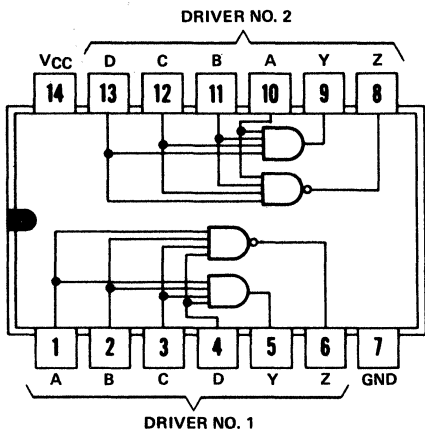
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

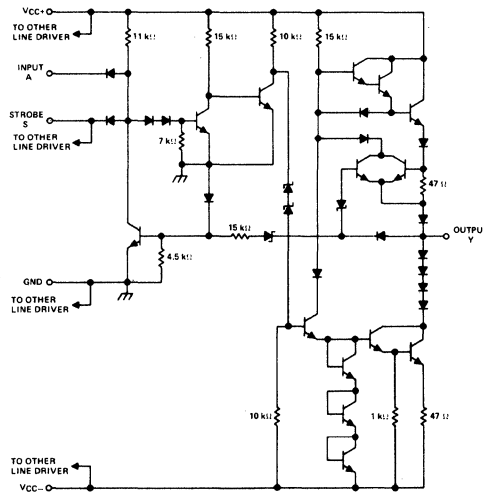
AB7



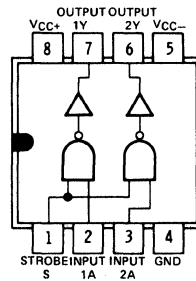
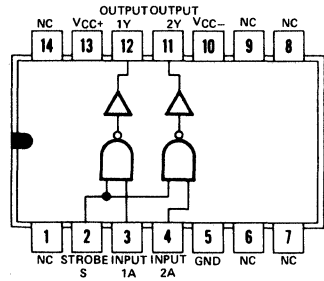
Resistor values shown are nominal and in ohms.
 VCC bus



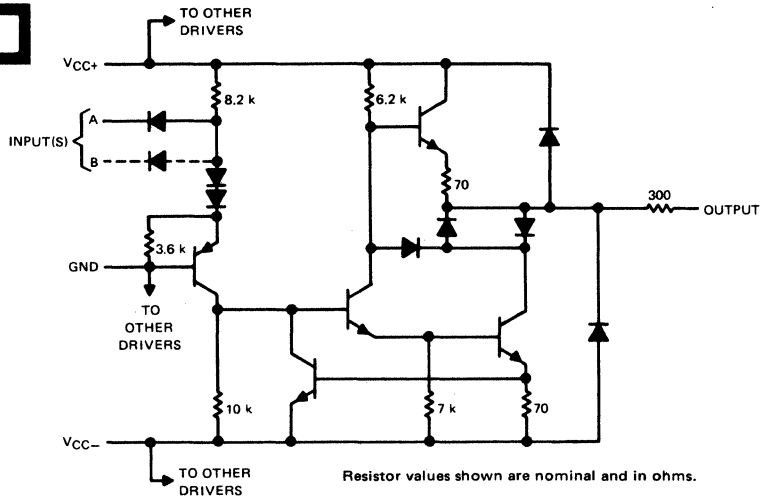
AB8



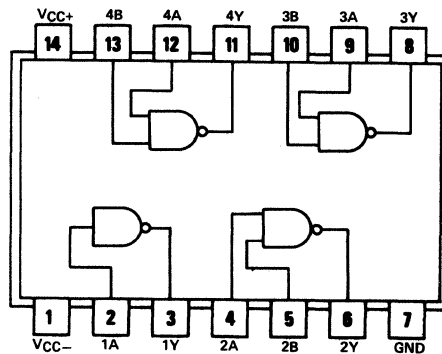
Component values shown are nominal.



AB9



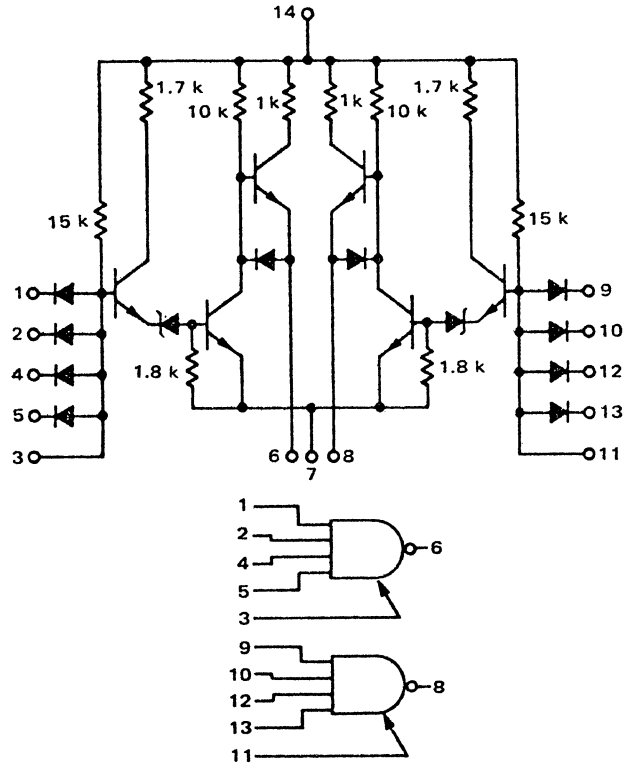
Resistor values shown are nominal and in ohms.



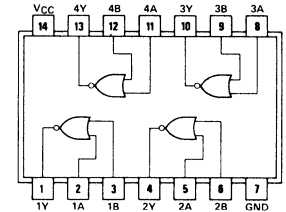
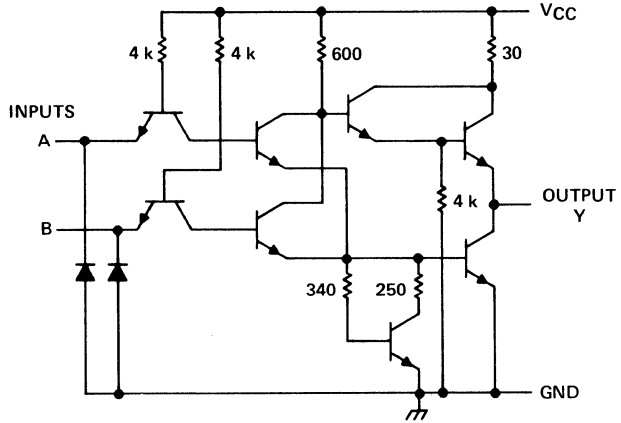
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

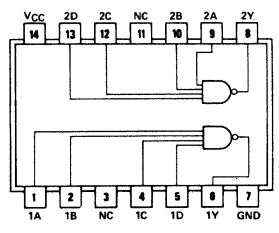
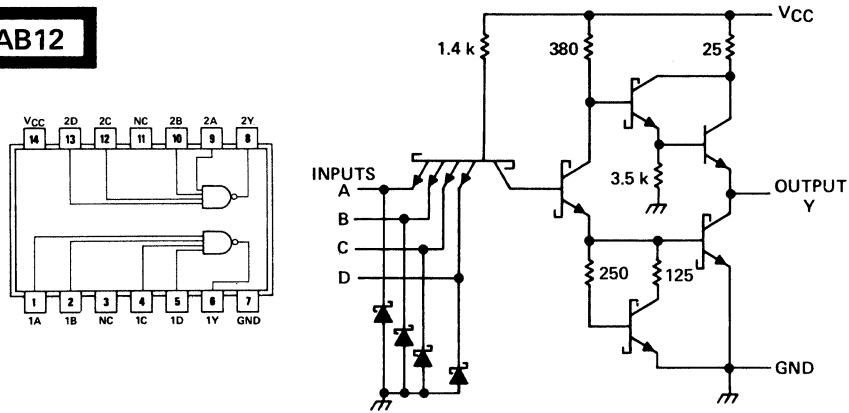
AB10



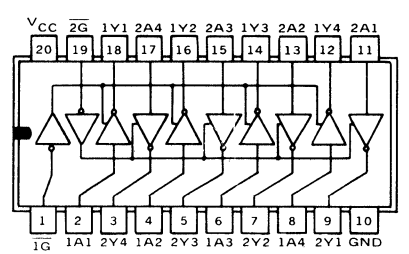
AB11



AB12



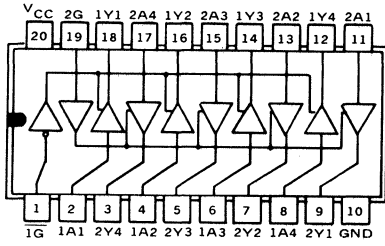
AB13



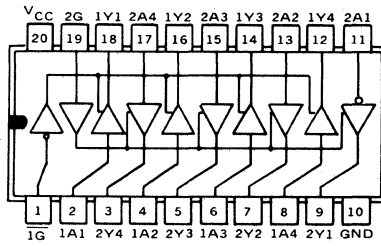
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

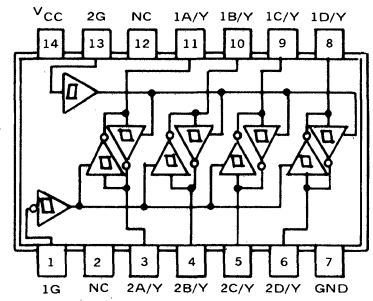
AB14



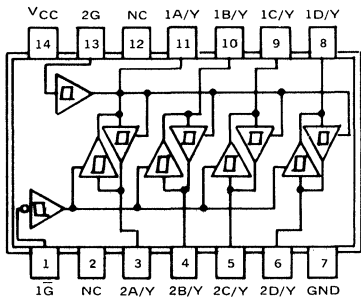
AB15



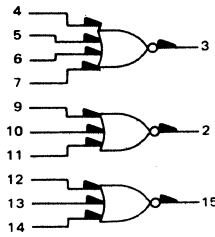
AB16



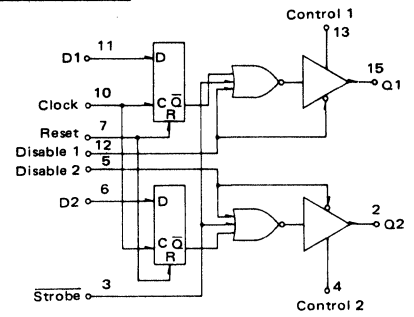
AB17



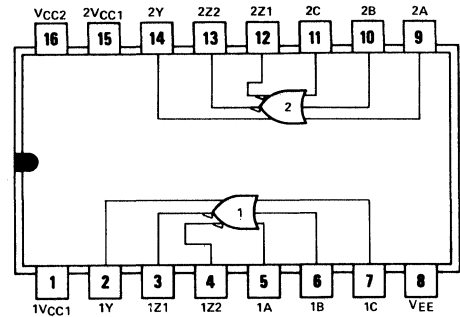
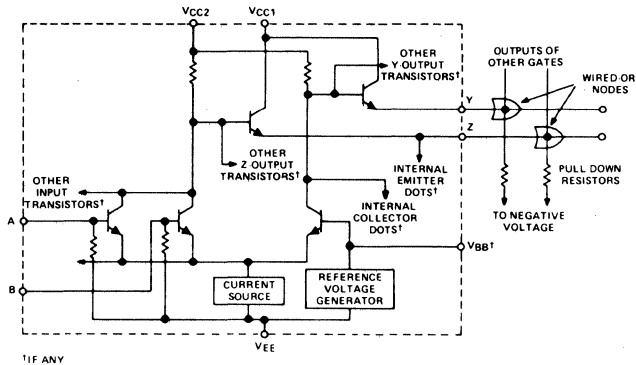
AB19



AB20



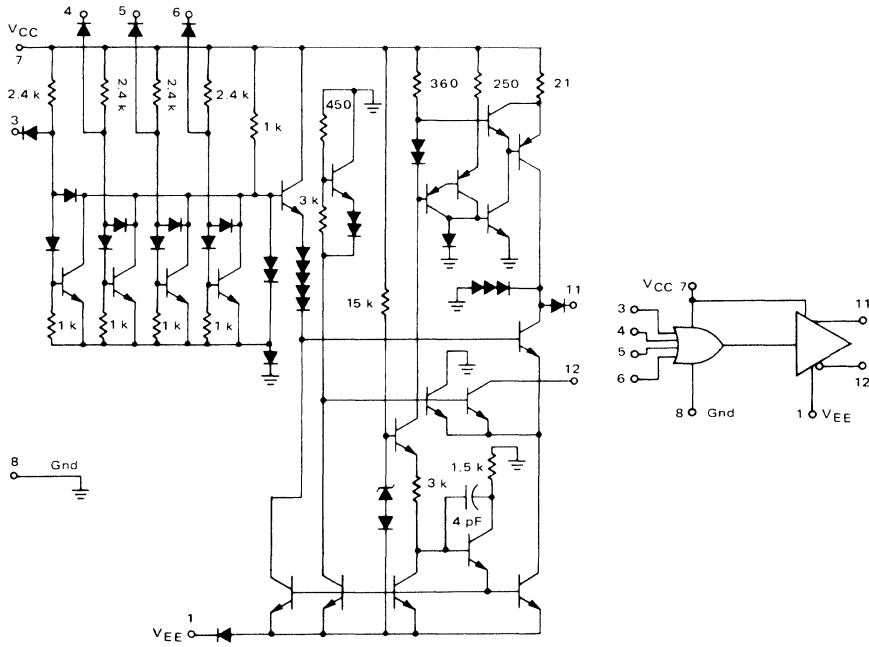
AB21



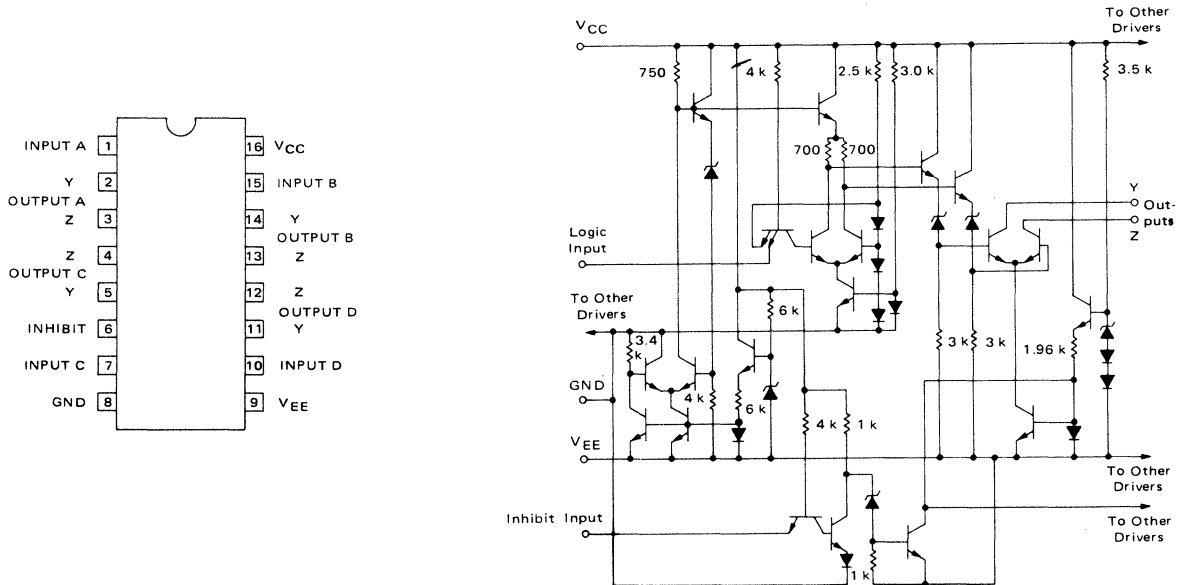
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

AB22



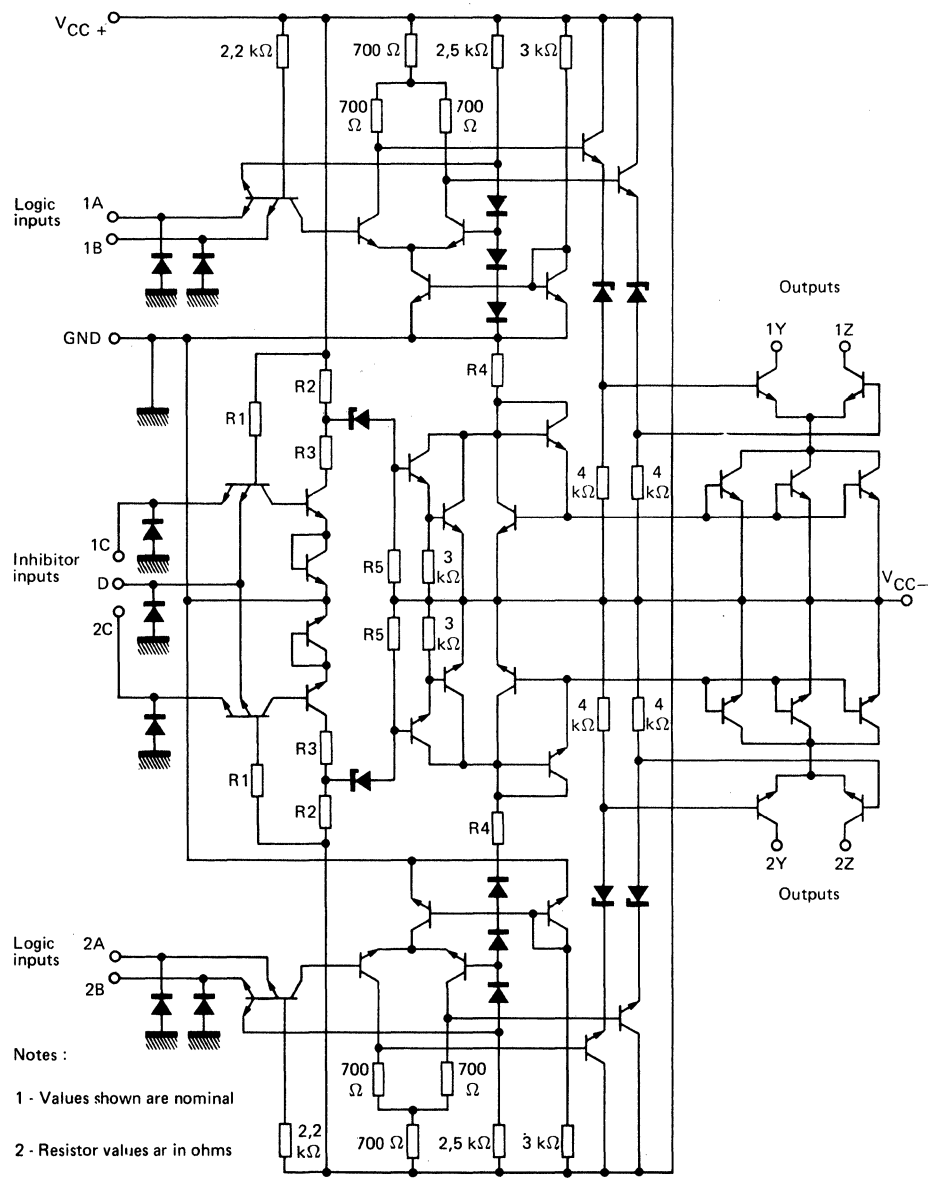
AB23



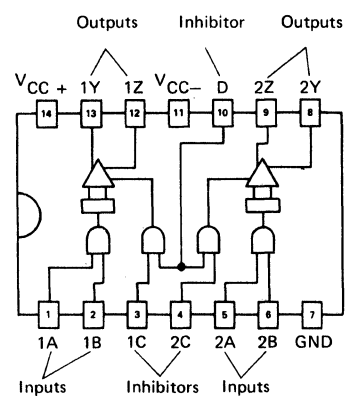
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

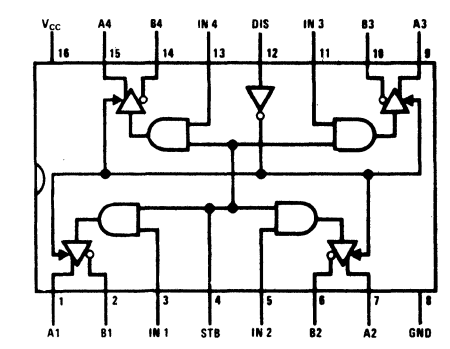
AB24



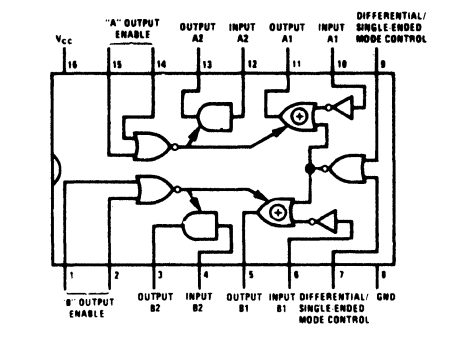
- Notes:
- 1 - Values shown are nominal
 - 2 - Resistor values are in ohms



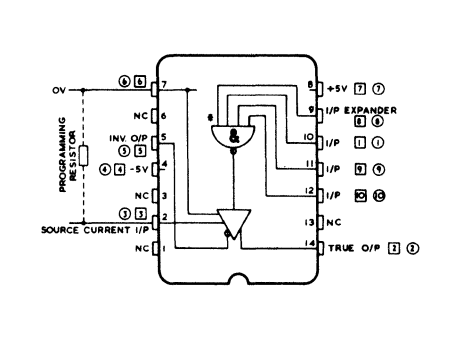
AB25



AB26



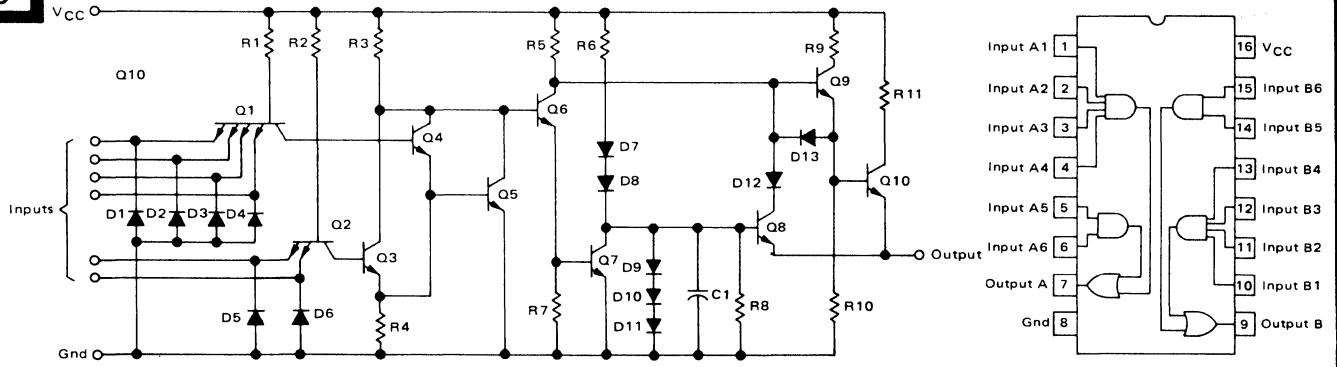
AB27



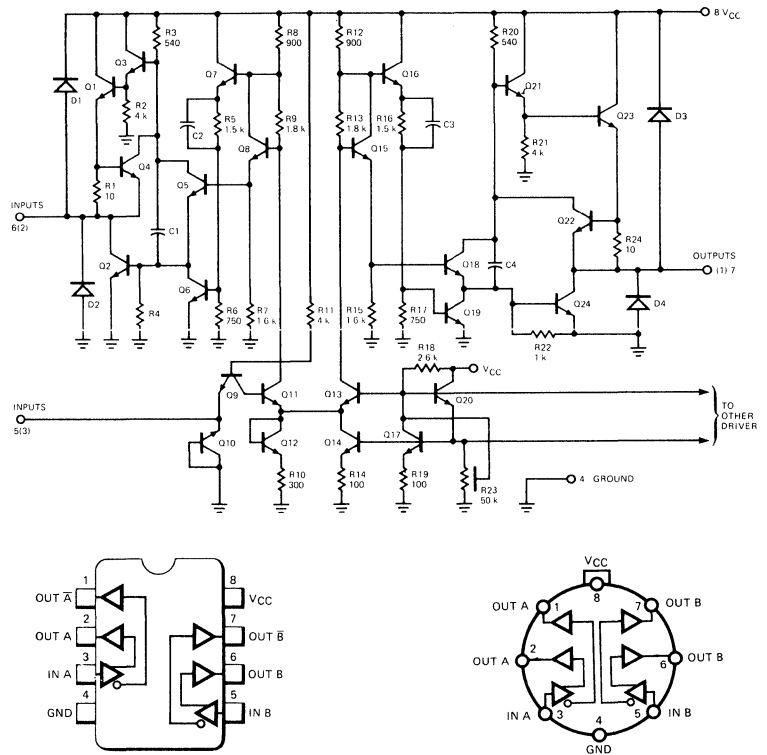
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

AB28



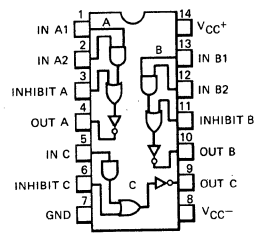
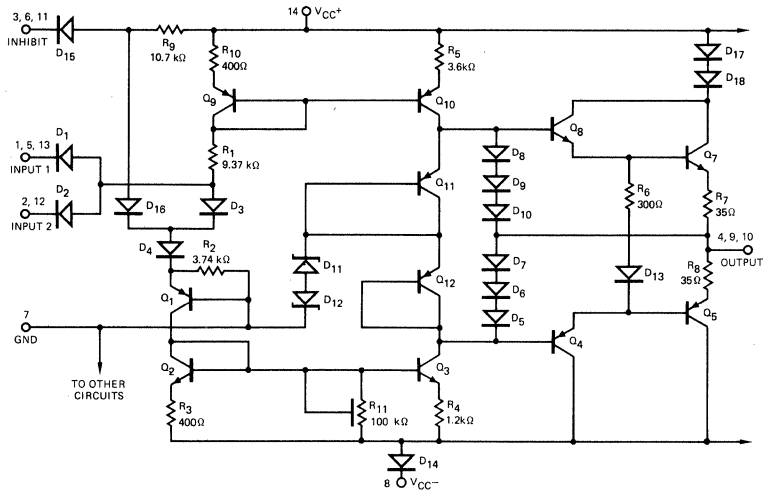
AB29



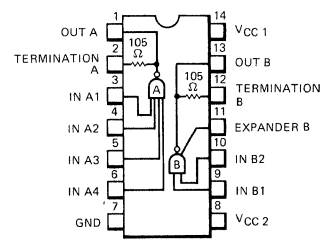
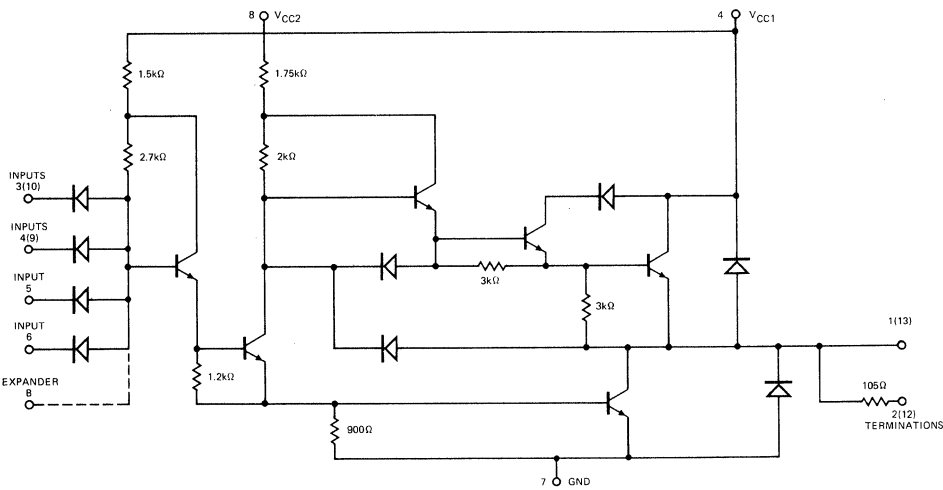
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

AB30



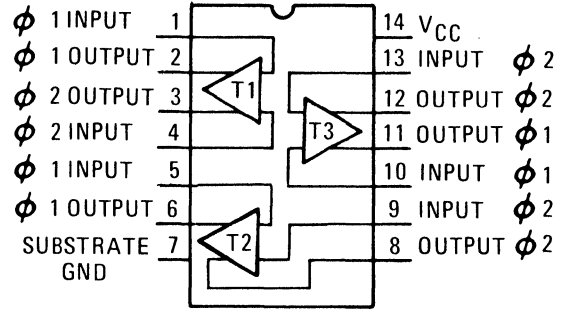
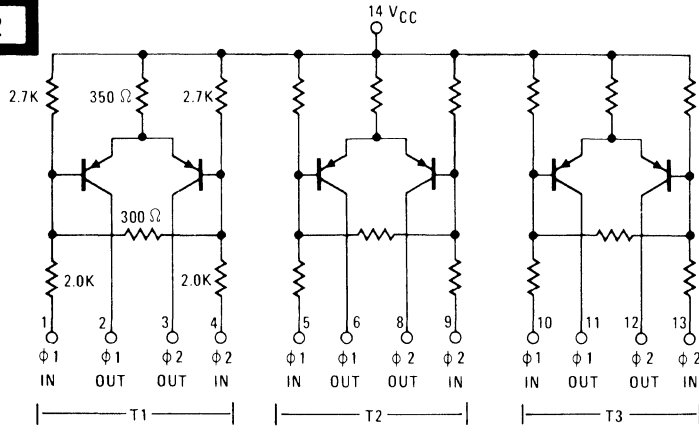
AB31



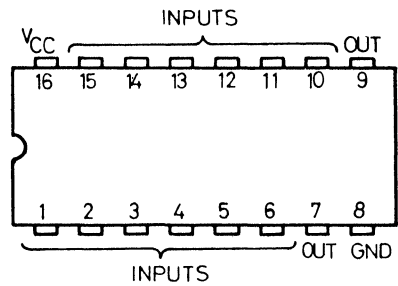
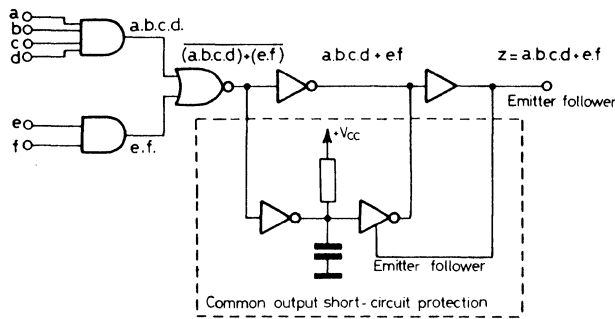
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

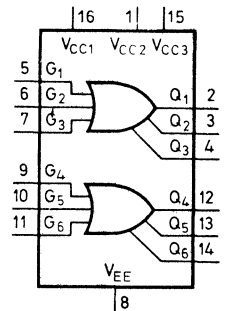
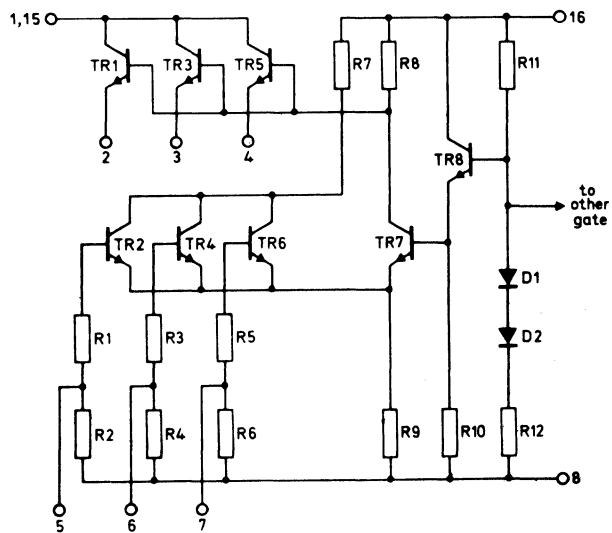
AB32



AB35



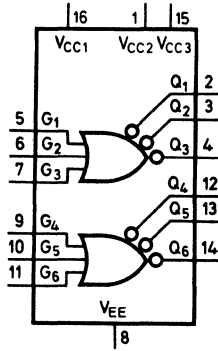
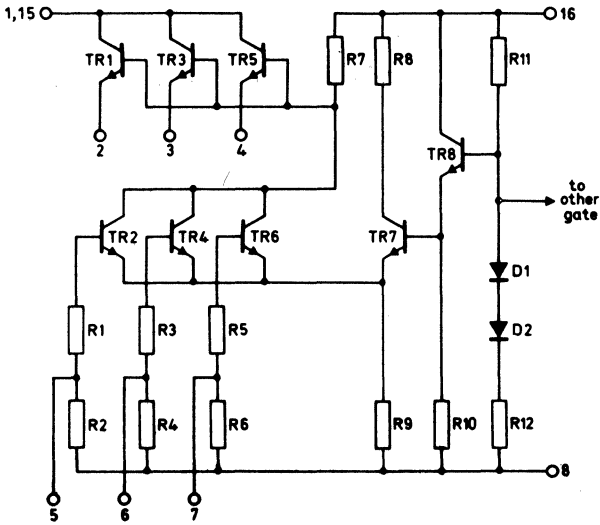
AB36



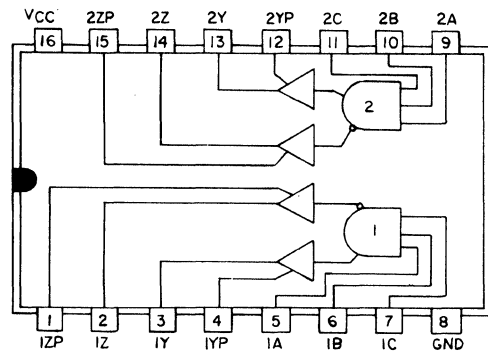
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

AB37



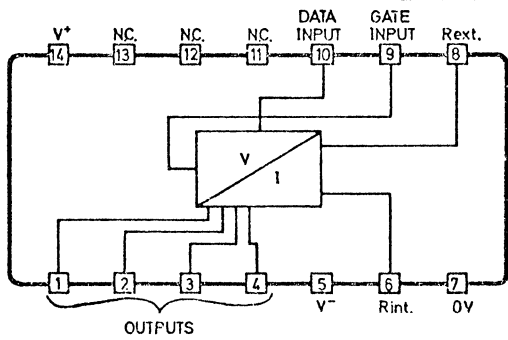
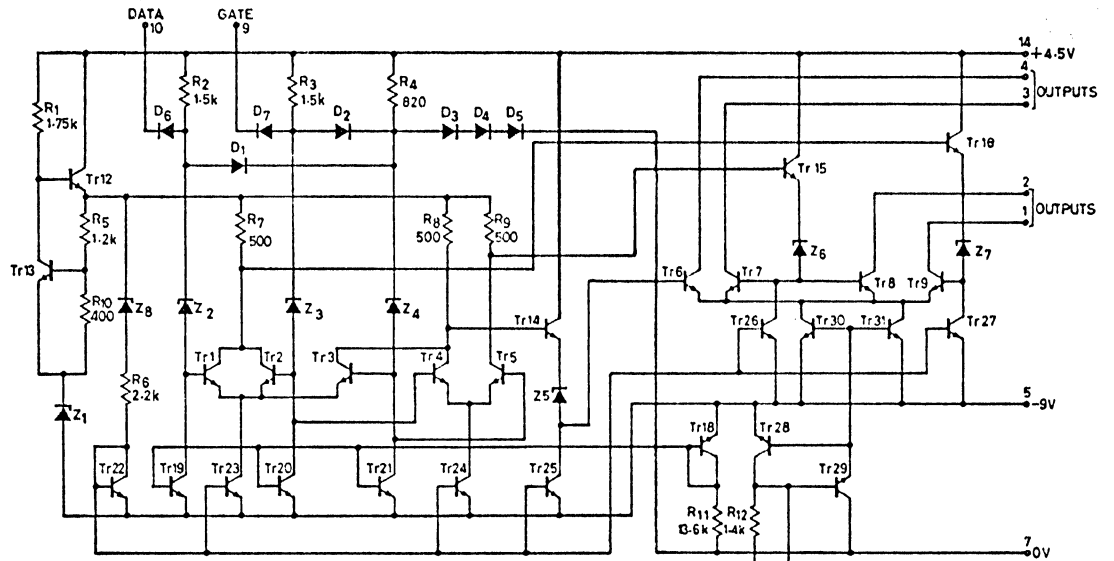
AB38



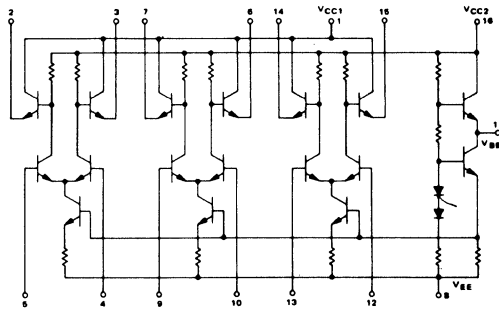
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

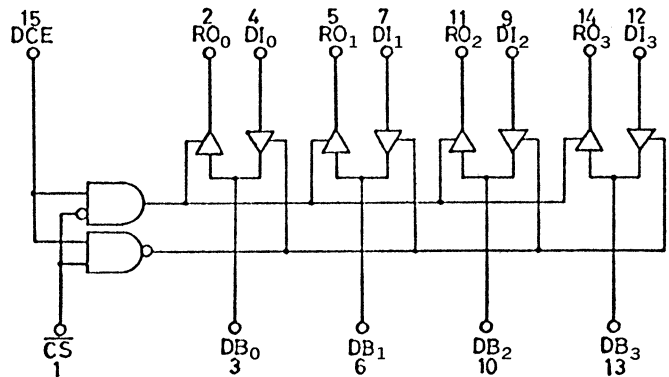
AB39



AB40

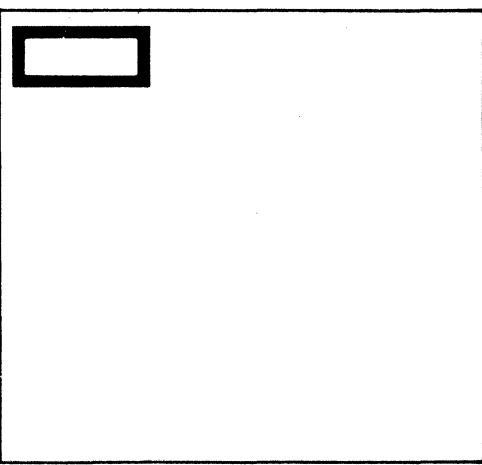
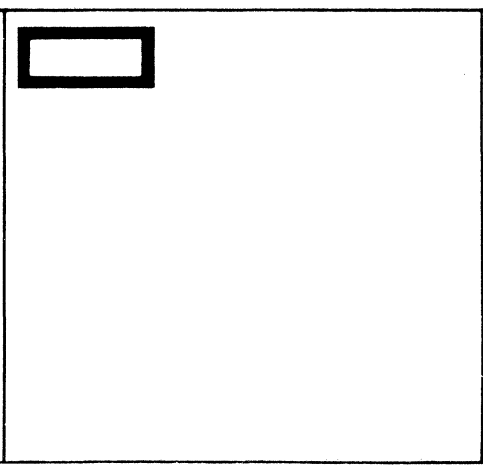
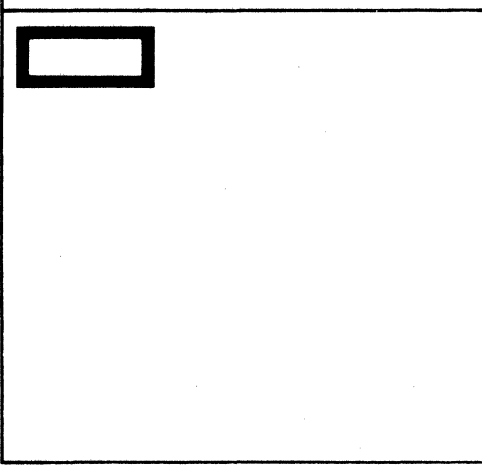
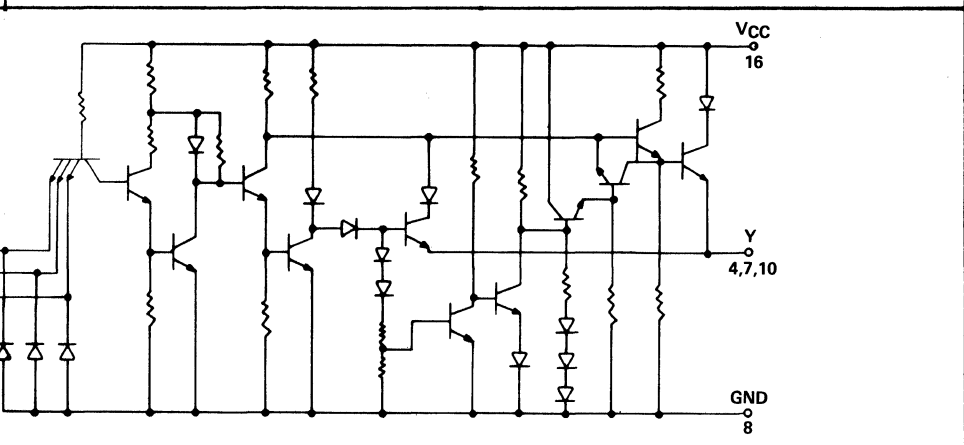
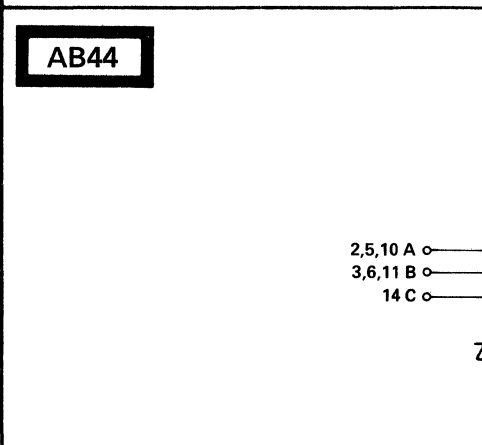
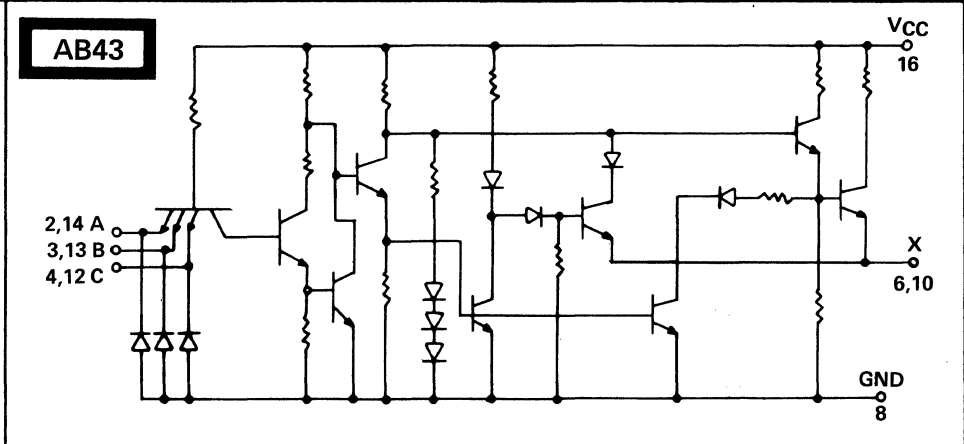
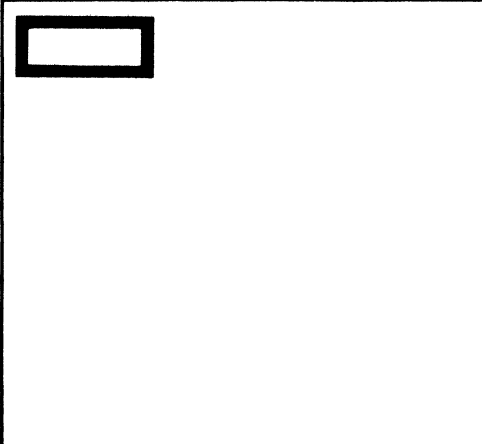
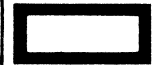
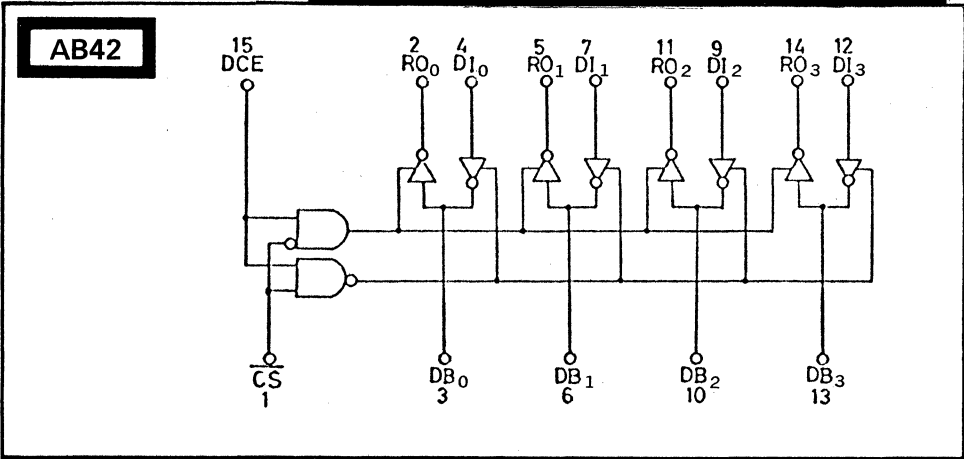


AB41



27. LOGIC/BLOCK DRAWINGS

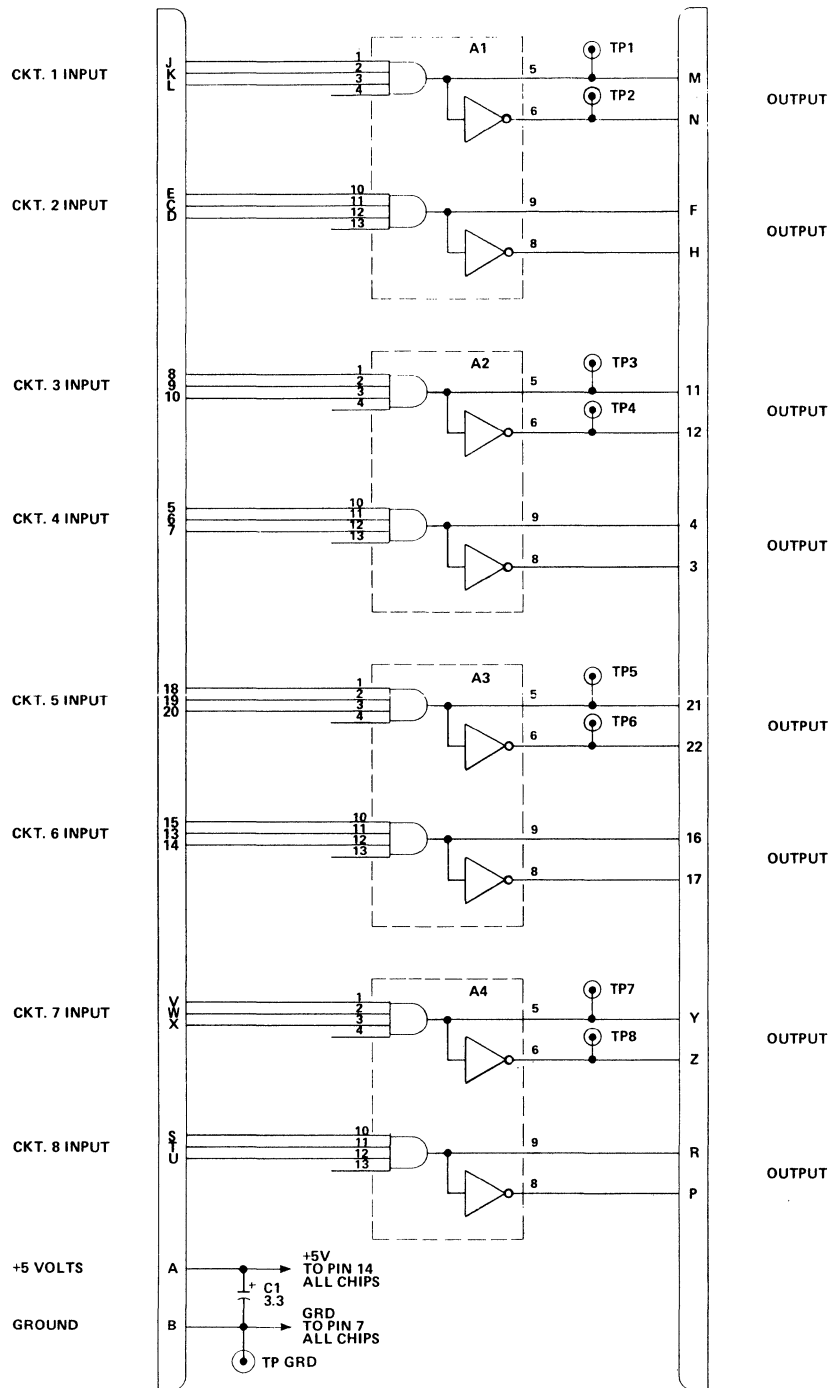
IN DRAWING NUMBER
SEQUENCE



27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

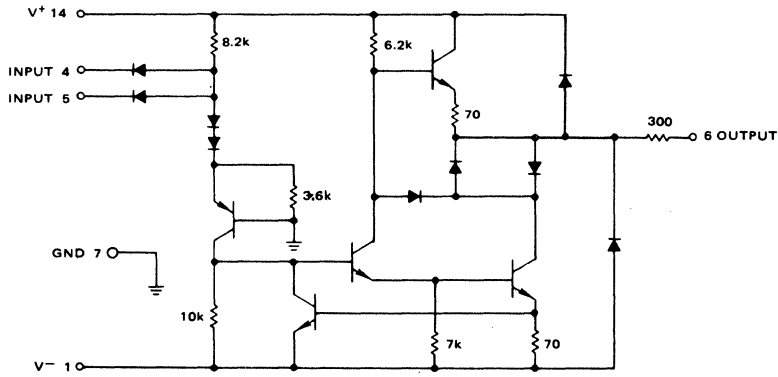
AB45



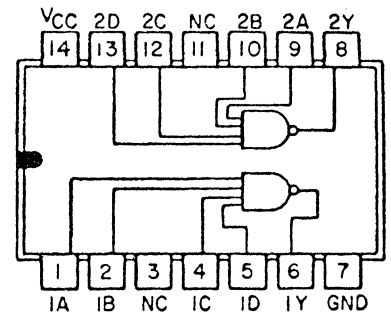
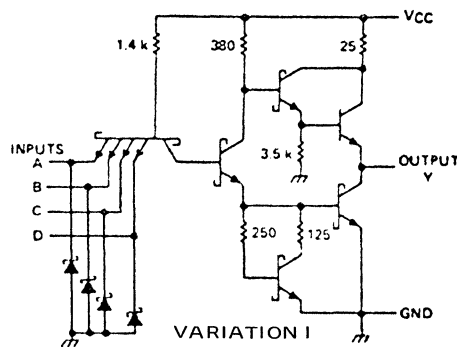
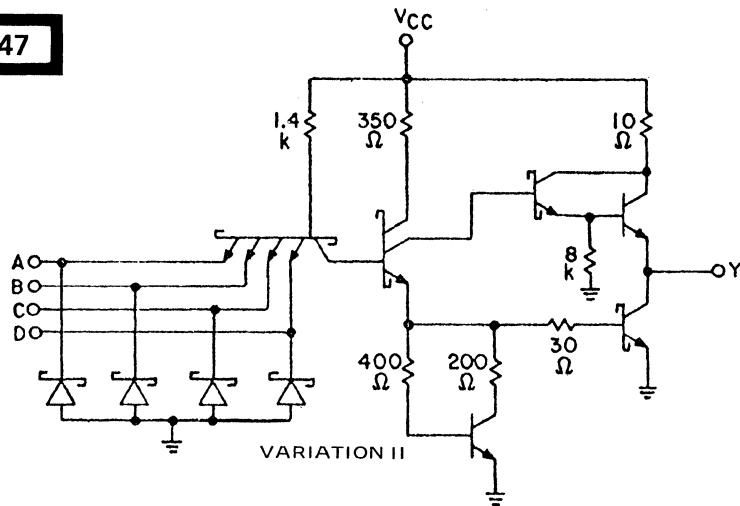
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

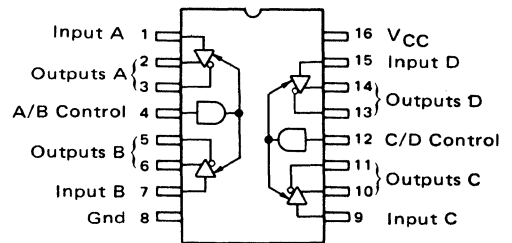
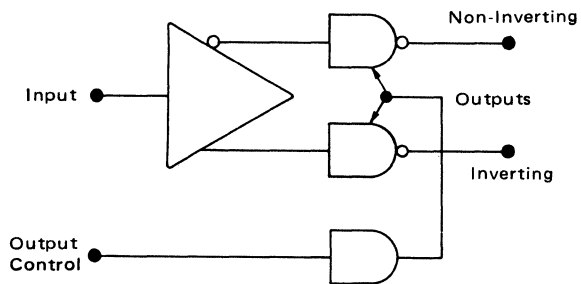
AB46



AB47



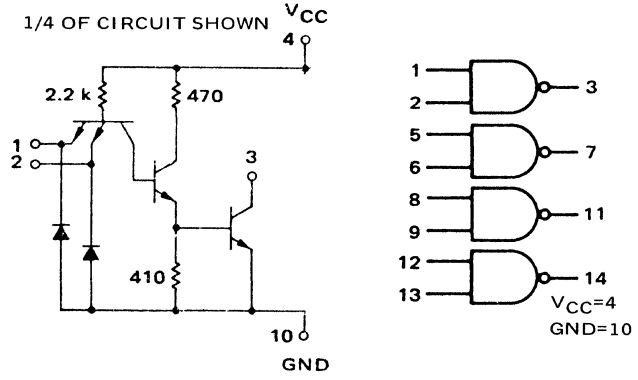
AB49



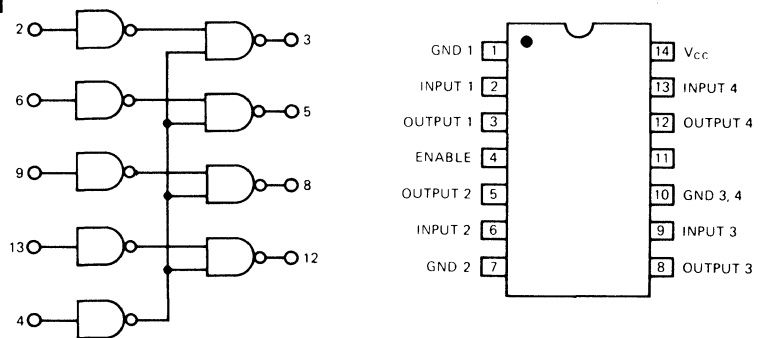
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

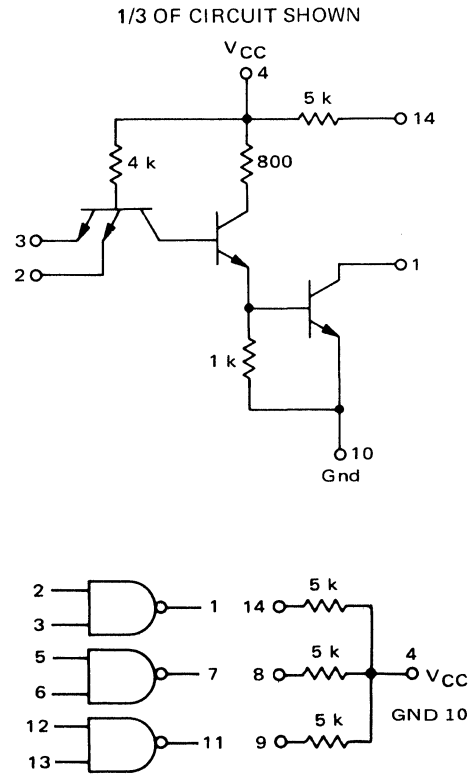
AB50



AB51



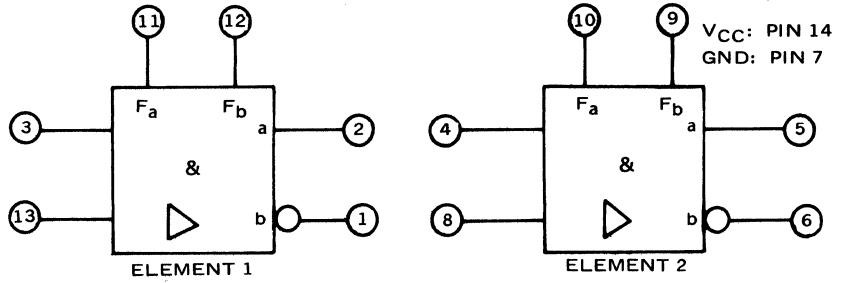
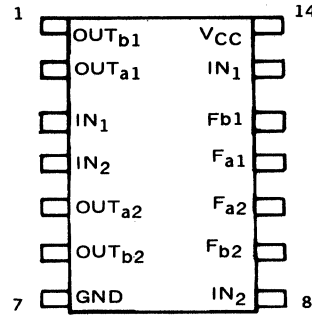
AB52



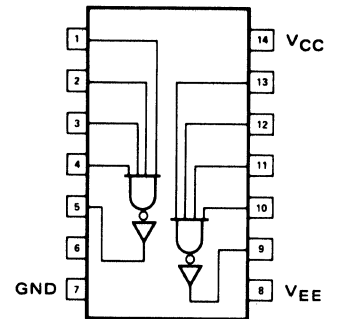
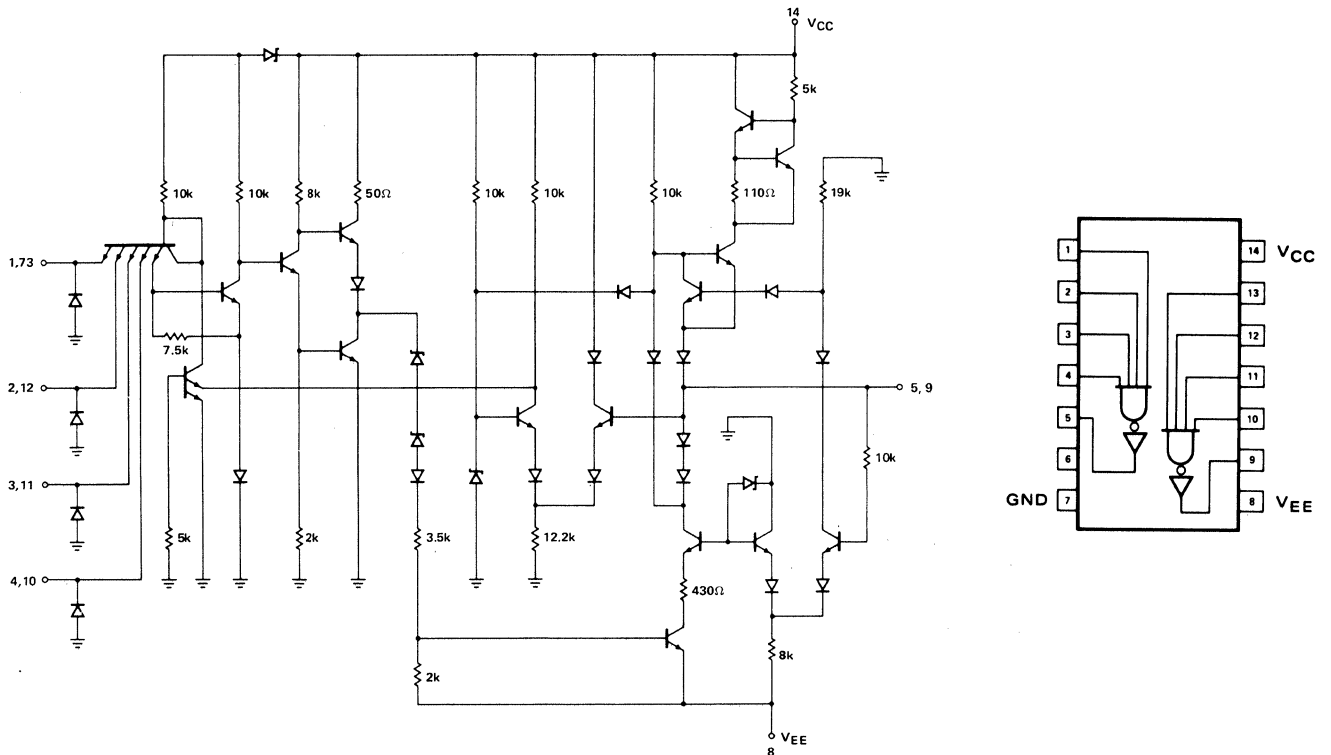
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

AB53



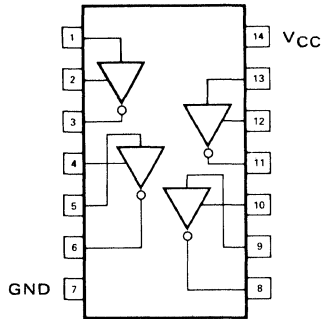
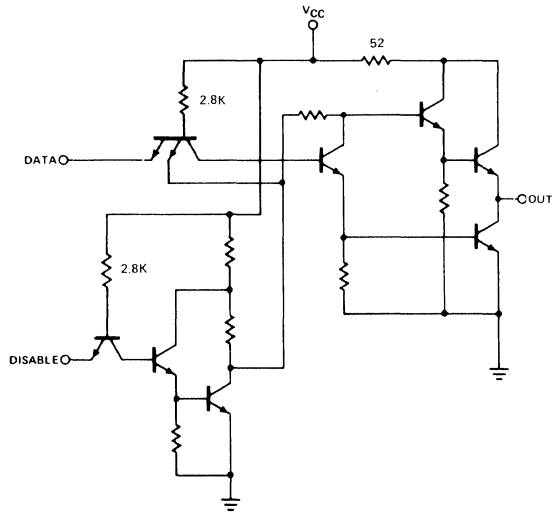
AB54



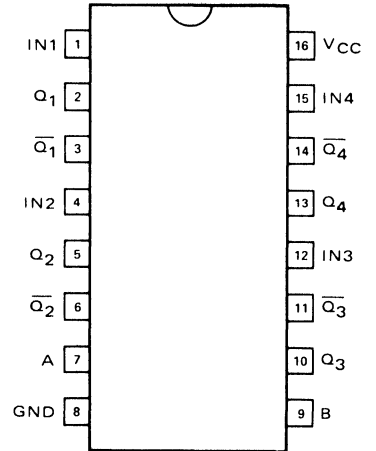
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

AB55



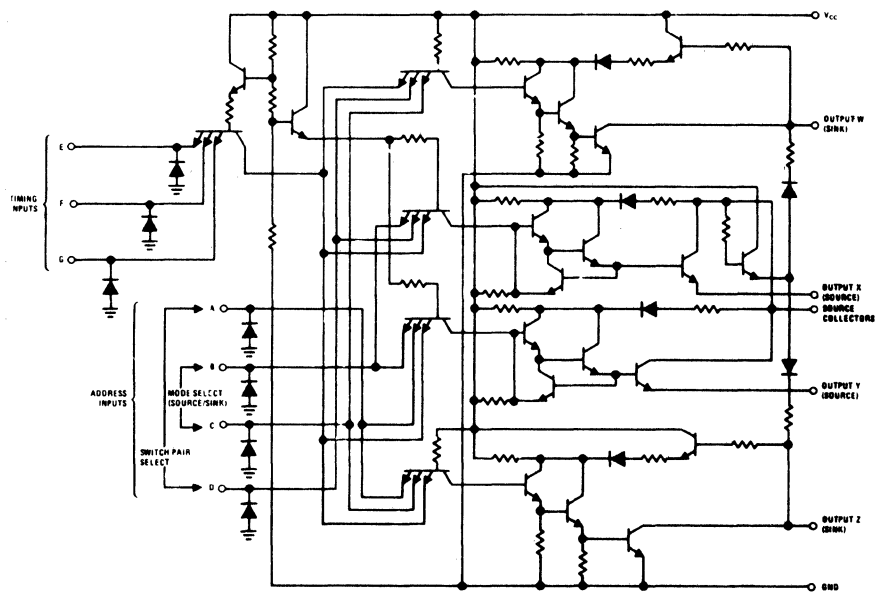
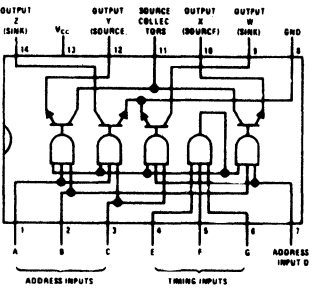
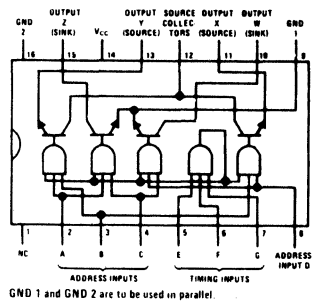
AB56



<div style="border: 2px solid black; width: 80px; height: 25px; margin-bottom: 10px;"></div>	<div style="border: 2px solid black; width: 80px; height: 25px; margin-bottom: 10px;"></div>	<div style="border: 2px solid black; width: 80px; height: 25px; margin-bottom: 10px;"></div>
<div style="border: 2px solid black; width: 80px; height: 25px; margin-bottom: 10px;"></div>	<div style="border: 2px solid black; width: 80px; height: 25px; margin-bottom: 10px;"></div>	<div style="border: 2px solid black; width: 80px; height: 25px; margin-bottom: 10px;"></div>

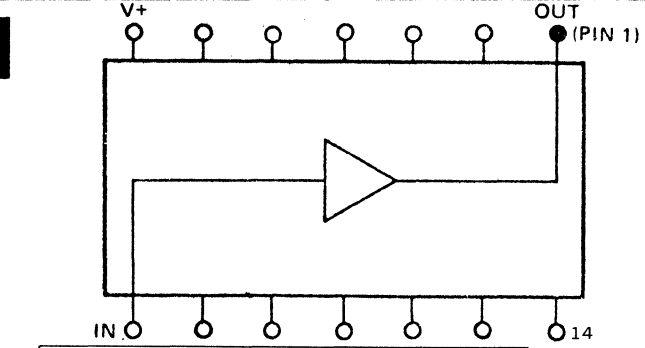
27. LOGIC/BLOCK DRAWINGS IN DRAWING NUMBER SEQUENCE

AC1



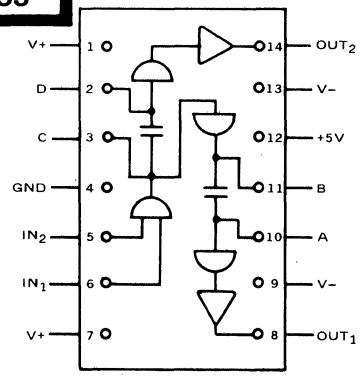
INPUT CLAMPING DIODES FOR AC1a ONLY.

AC2

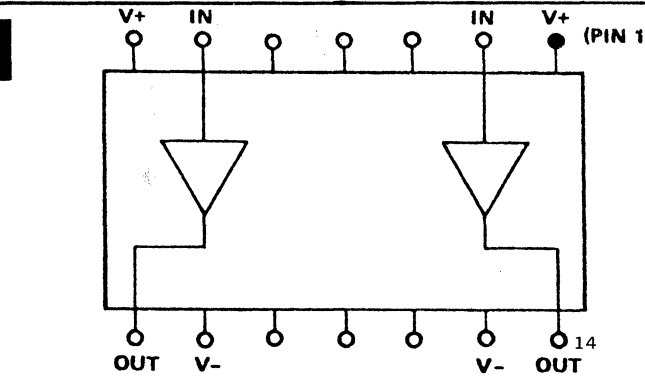


		Pin Numbers													
		1	2	3	4	5	6	7	8	9	10	11	12	13	14
AC2	Out					V+	IN								V-
AC2a	Out	Gnd				V+	IN					Clamp	Clamp	V-	
AC2b	Out	Gnd	Gnd			V+	IN					Logic	Logic	Supp	

AC3



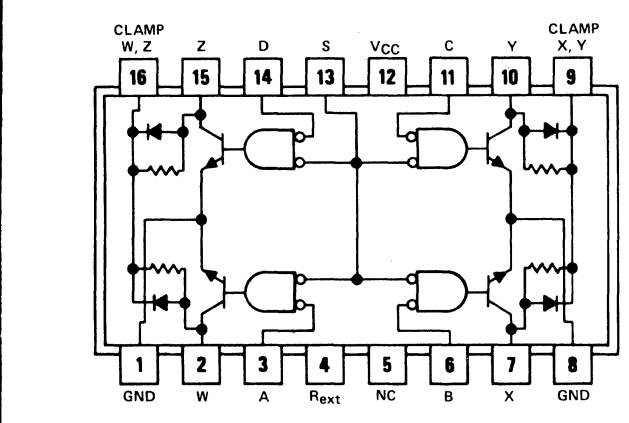
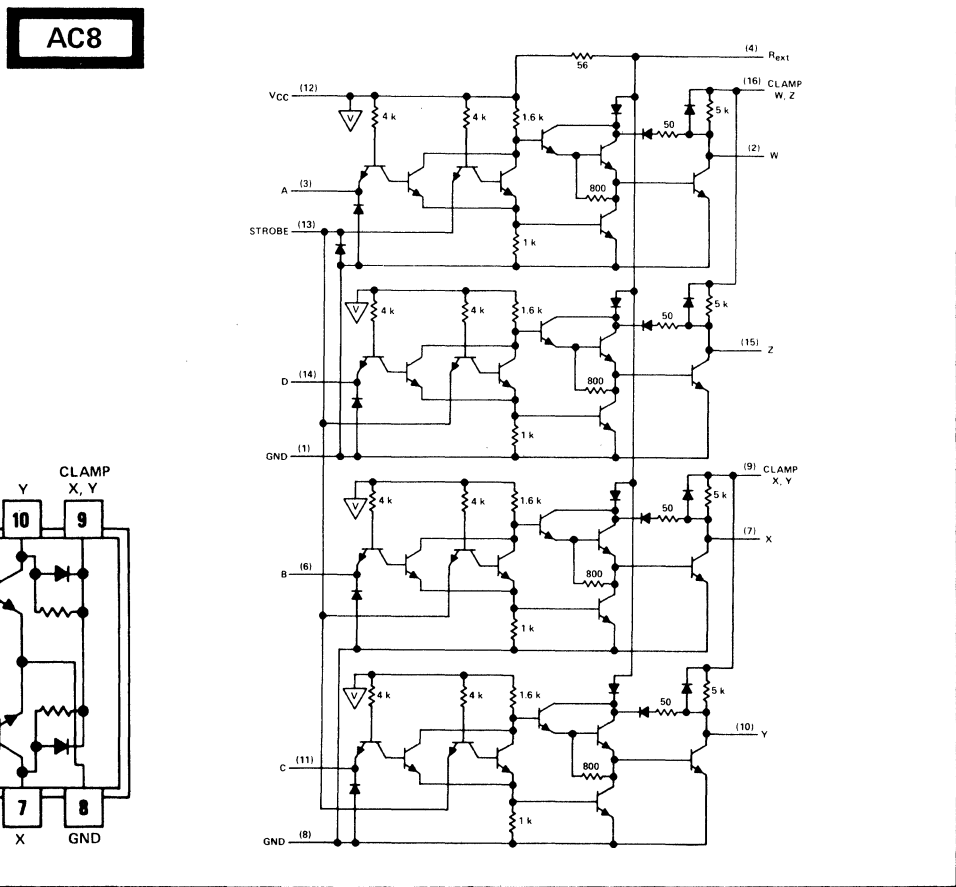
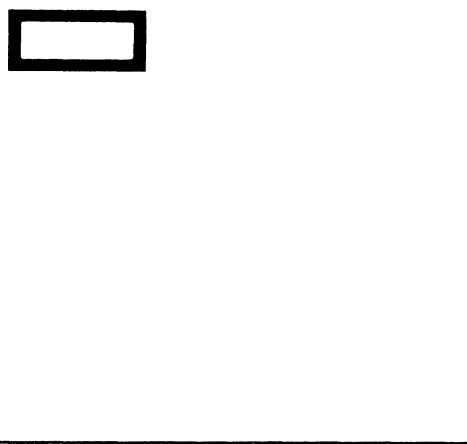
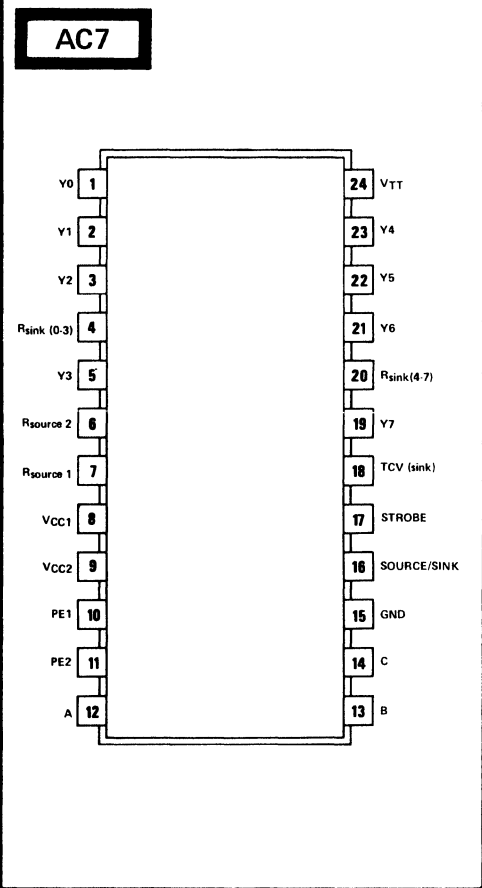
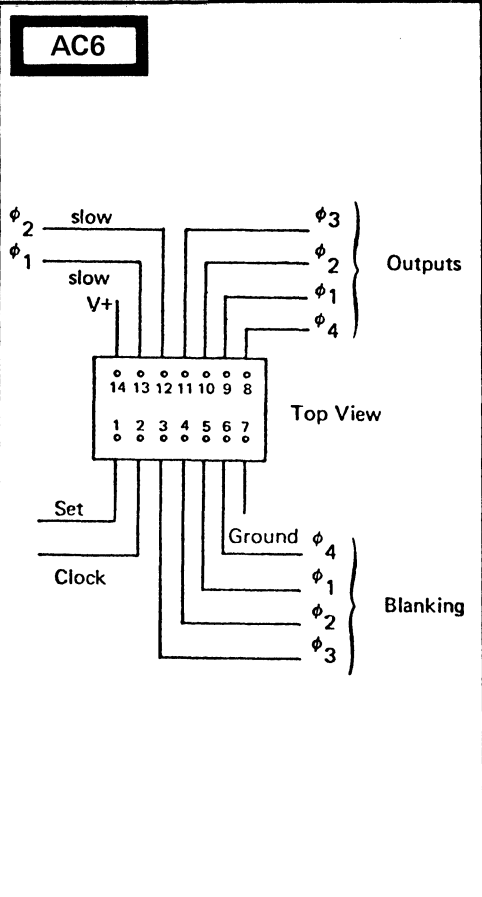
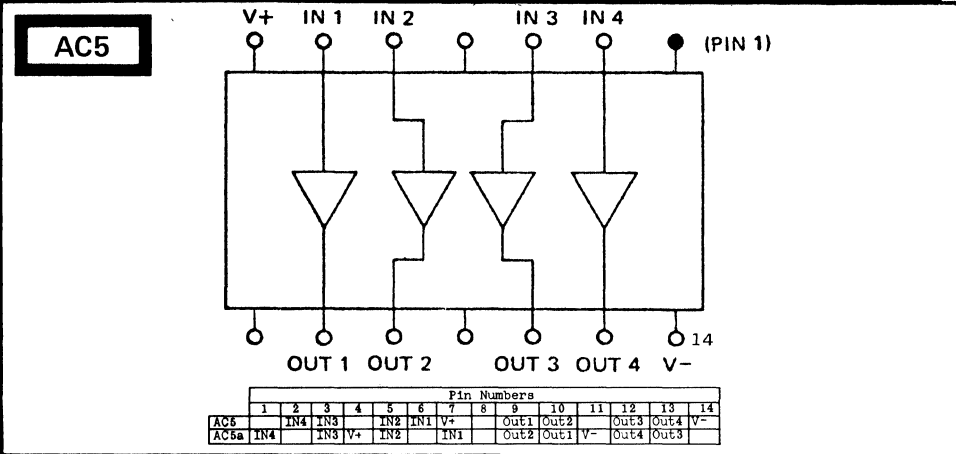
AC4



		Pin Numbers													
		1	2	3	4	5	6	7	8	9	10	11	12	13	14
AC4	V+1	IN1					IN2	Out2	V-2					V-1	Out2
AC4a	IN1			V+			IN2	Out2	V-	Out1					

27. LOGIC/BLOCK DRAWINGS

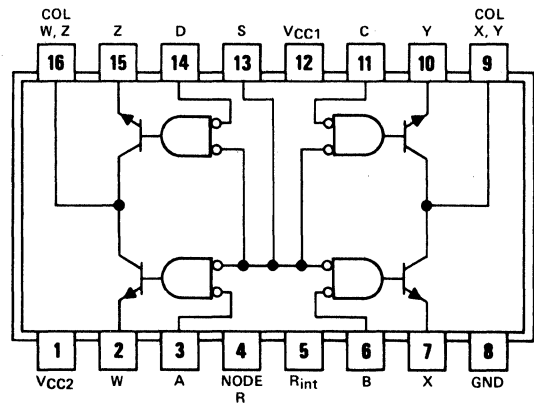
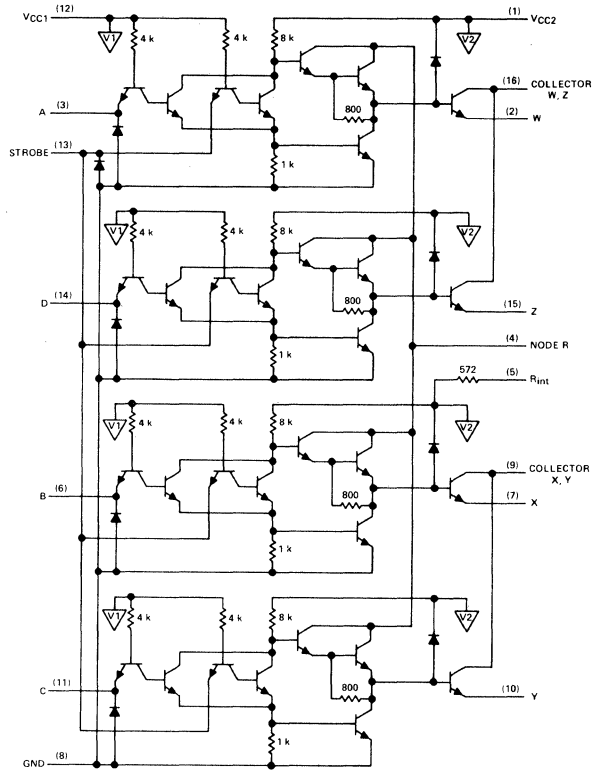
IN DRAWING NUMBER SEQUENCE



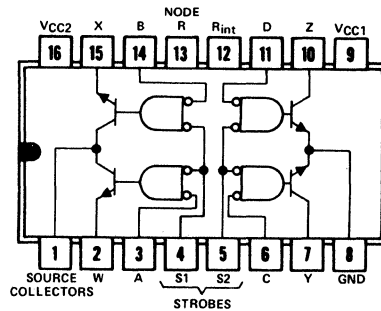
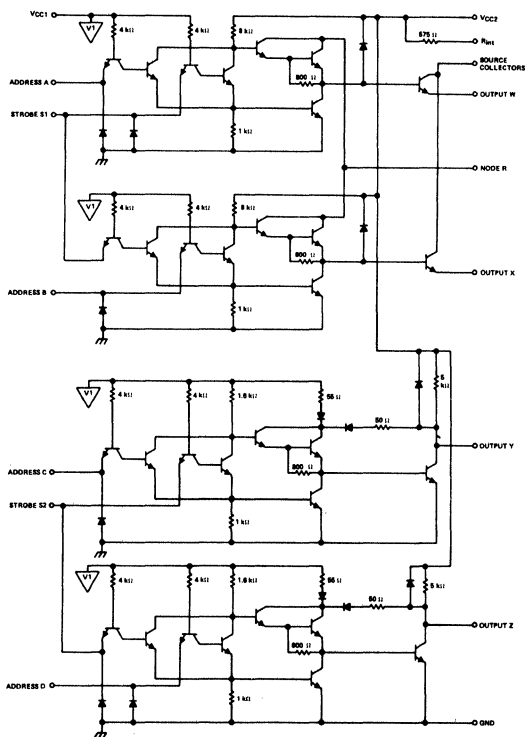
27. LOGIC/BLOCK DRAWINGS


IN DRAWING NUMBER SEQUENCE

AC9



AC10

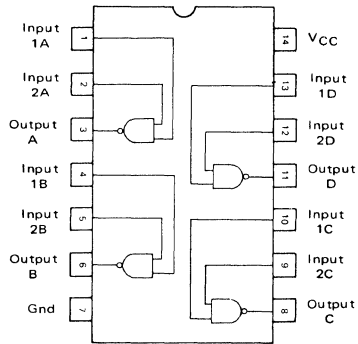
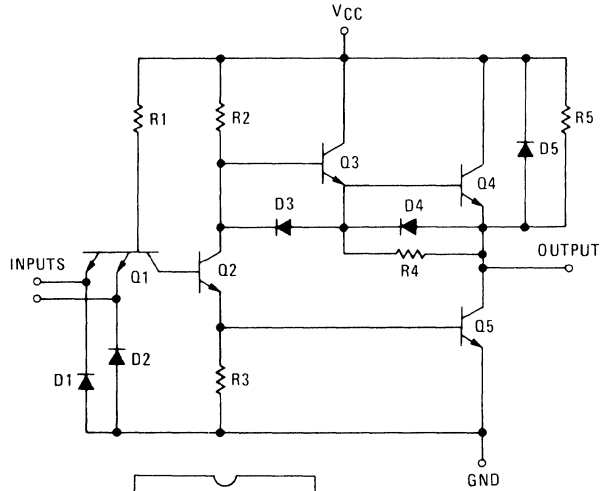


Component values shown are nominal.
 ... VCC1 bus

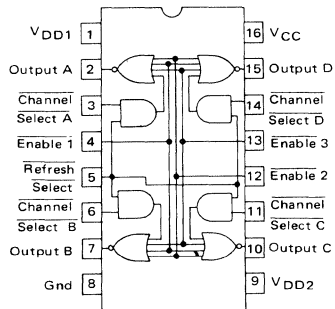
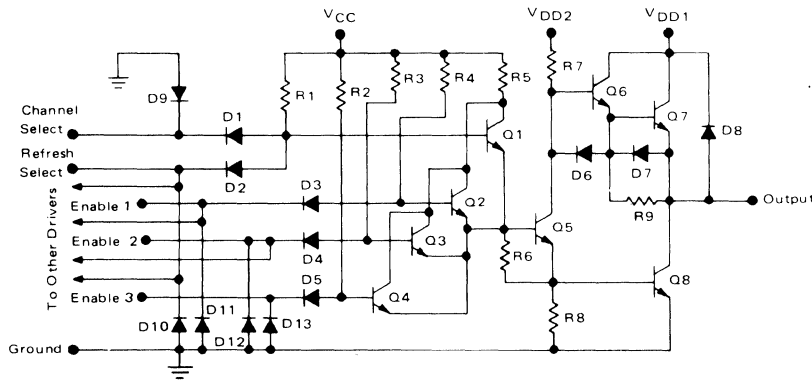
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

AC11

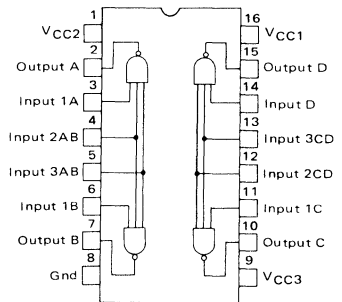


AC12



AC13

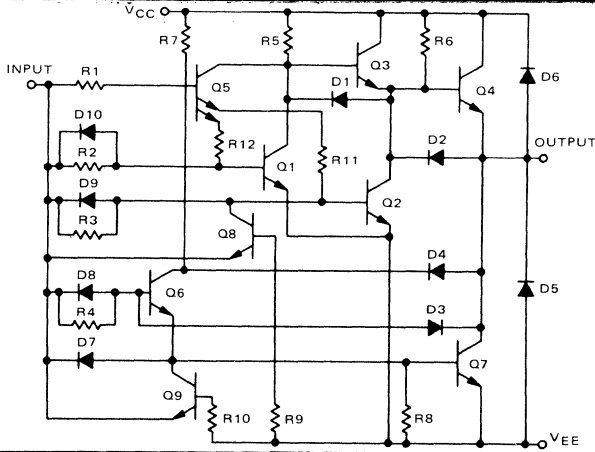
AC13a: PIN 1 VDD
PIN 9 NC
PIN 16 VCC



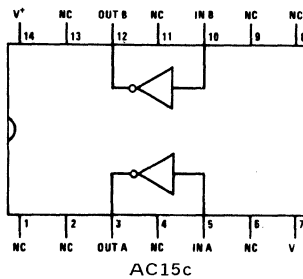
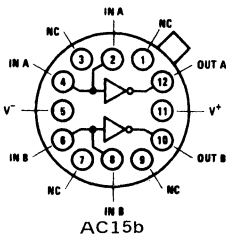
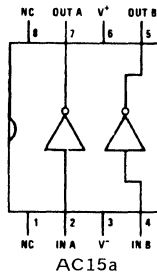
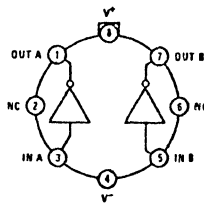
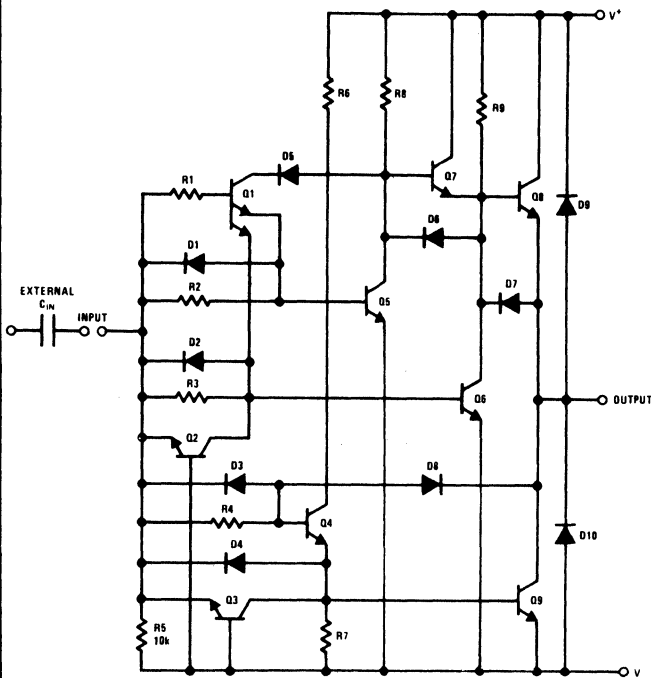
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

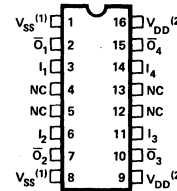
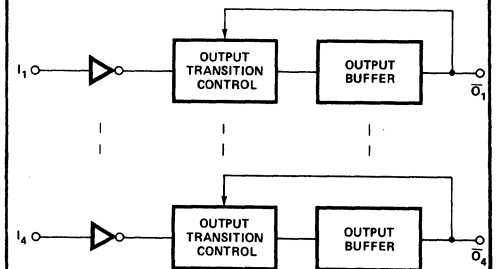
AC14



AC15



AC16

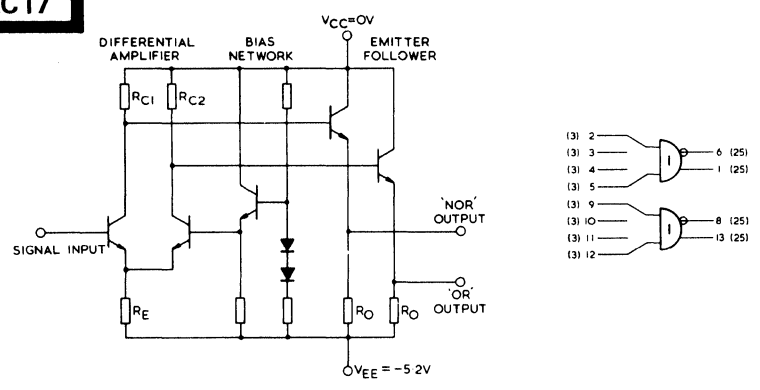


NOTES: 1. BOTH PIN 1 AND 8 MUST BE CONNECTED TO V_{SS} .
2. BOTH PIN 9 AND 16 MUST BE CONNECTED TO V_{DD} .

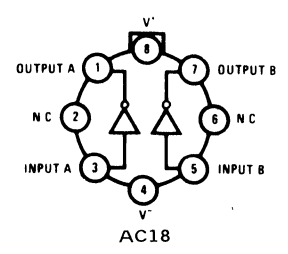
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

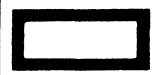
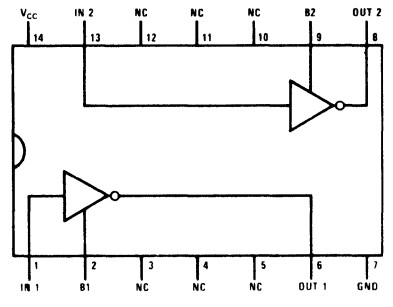
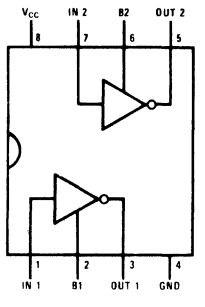
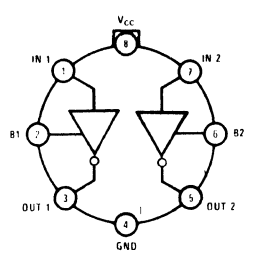
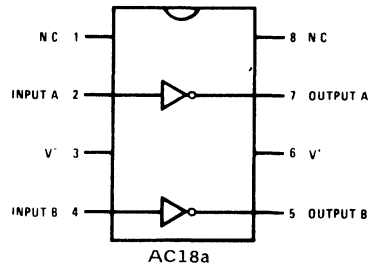
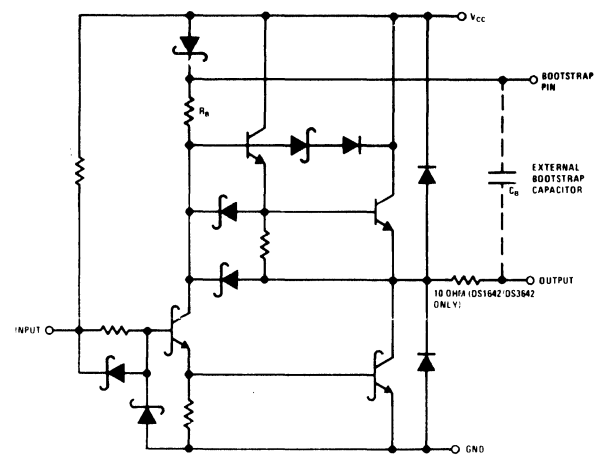
AC17



AC18



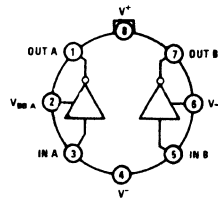
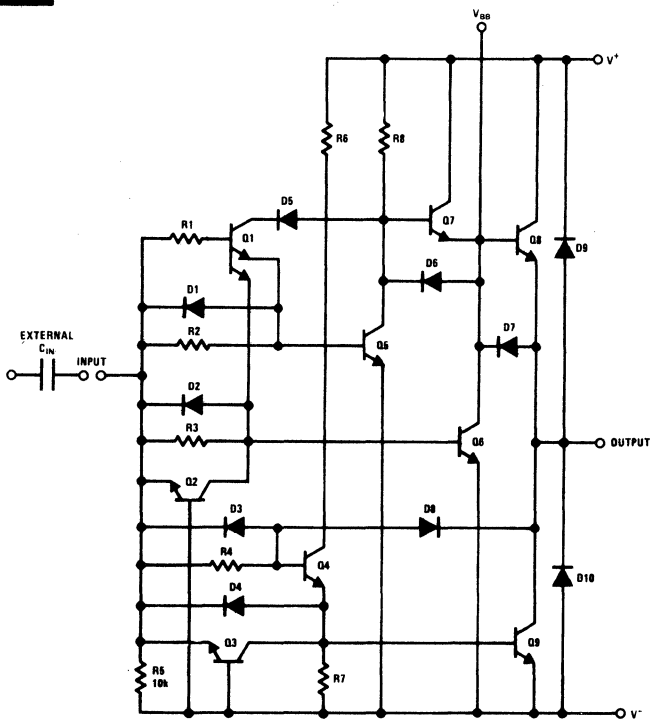
AC19



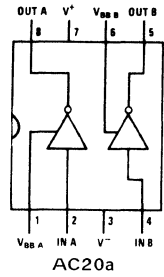
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

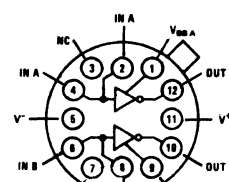
AC20



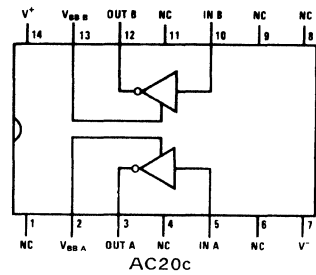
Note: Pin 4 connected to case.
AC20



AC20a

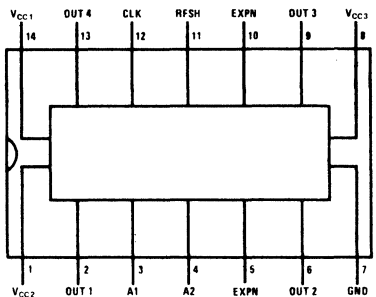
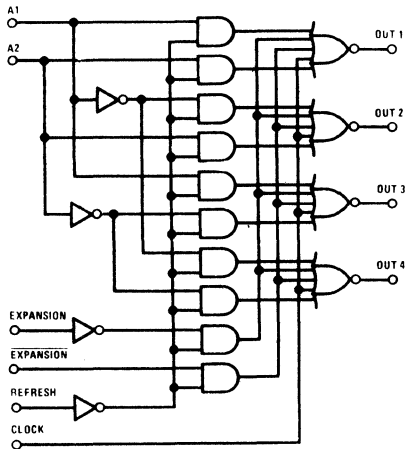


AC20b

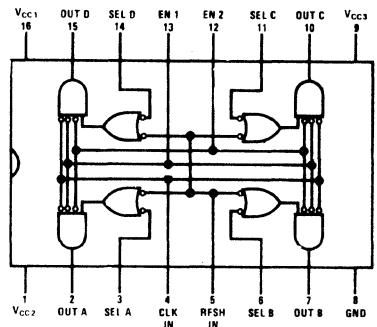
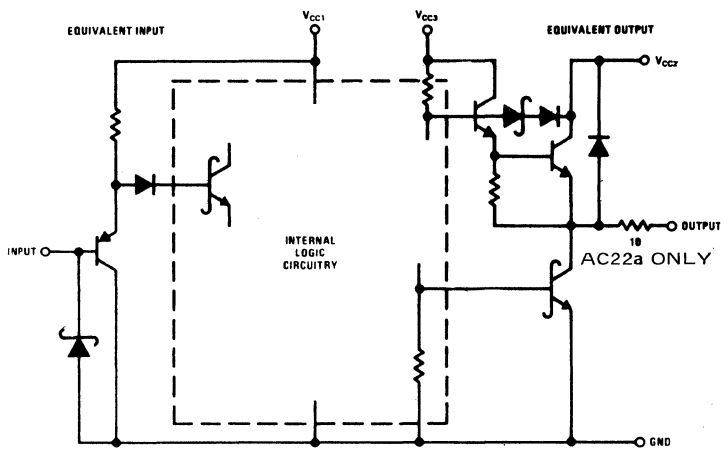


AC20c

AC21



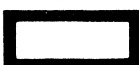
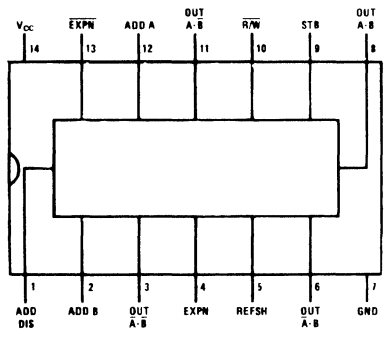
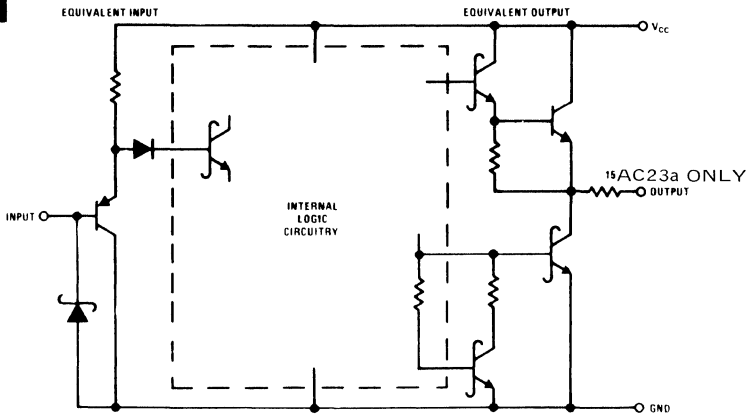
AC22



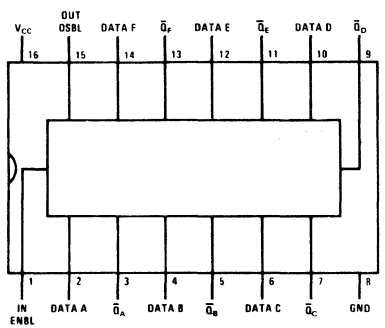
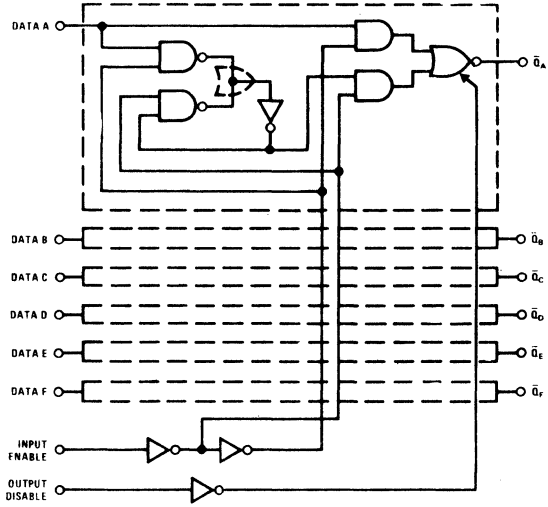
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

AC23



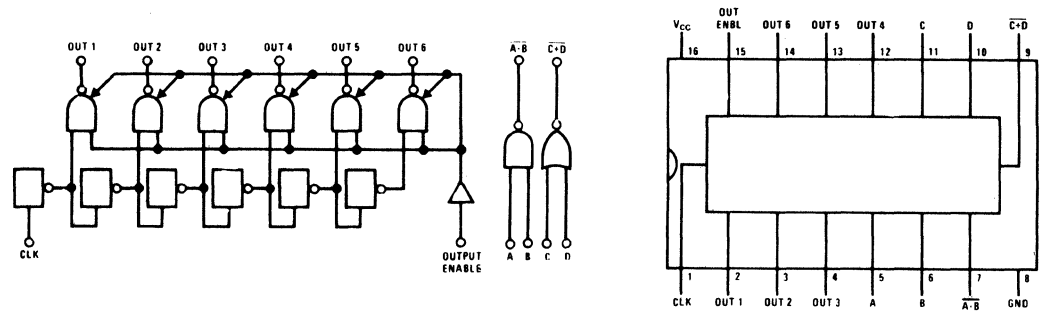
AC24



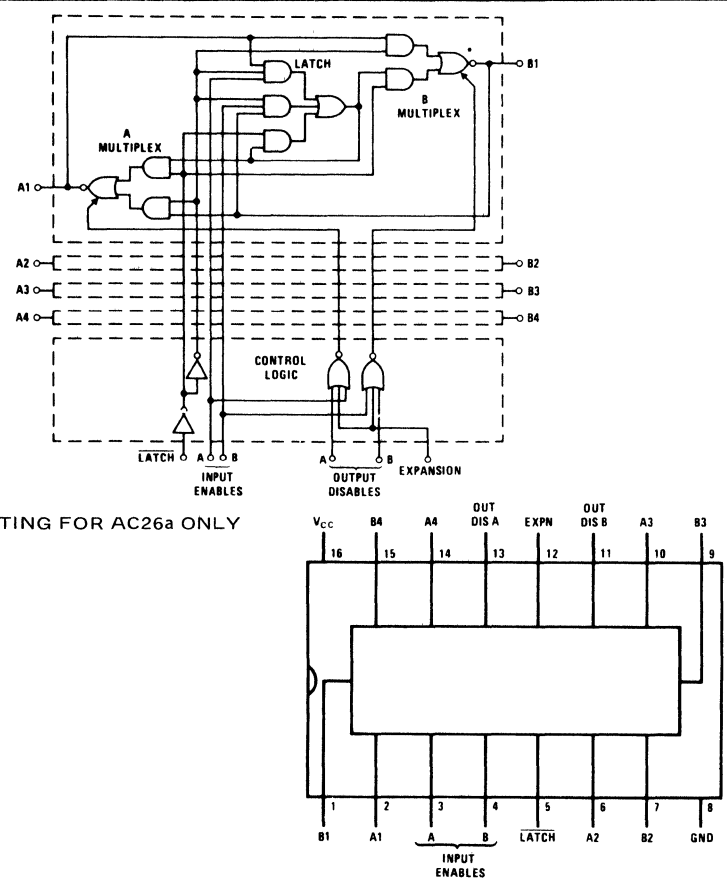
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

AC25

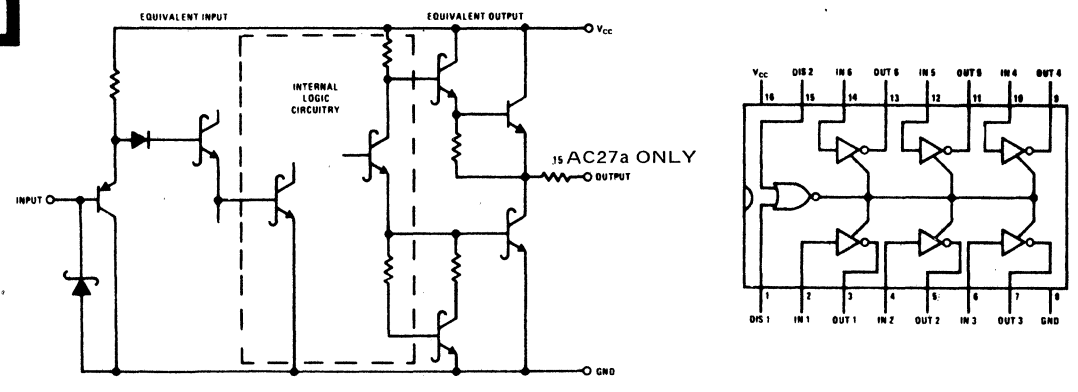


AC26



* INVERTING FOR AC26a ONLY

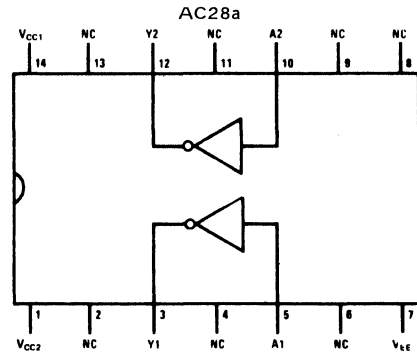
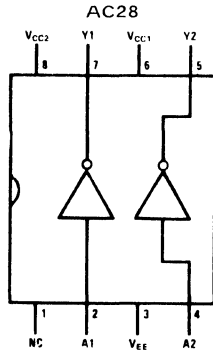
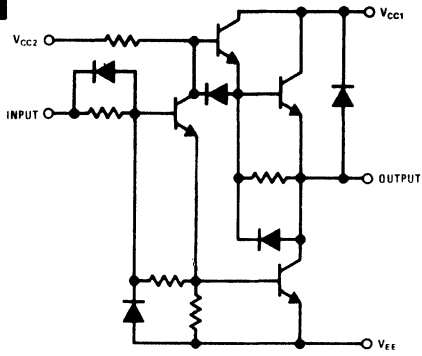
AC27



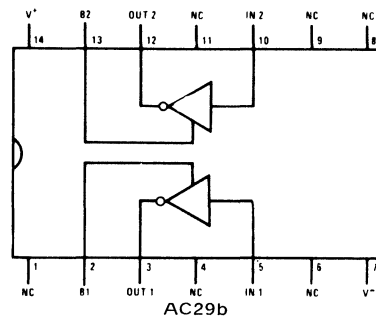
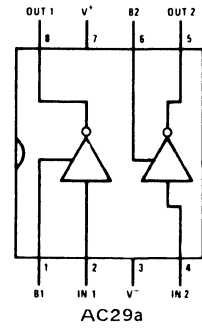
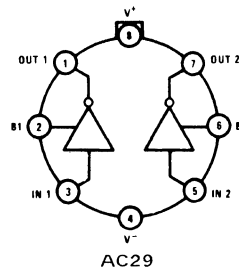
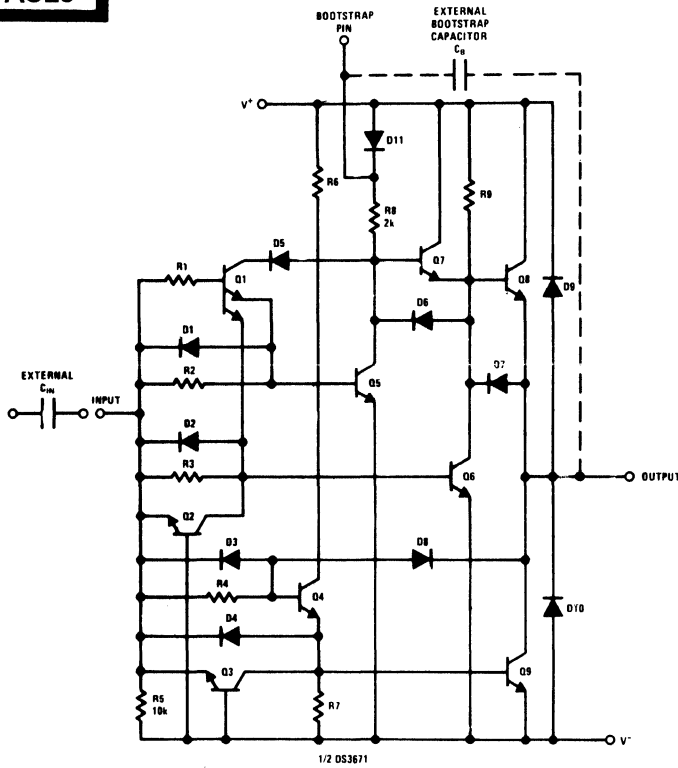
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

AC28



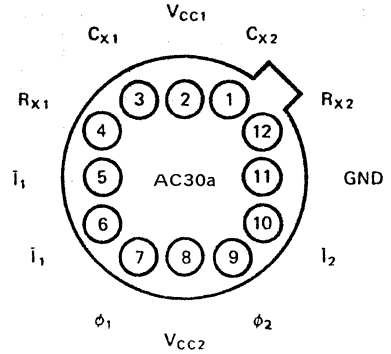
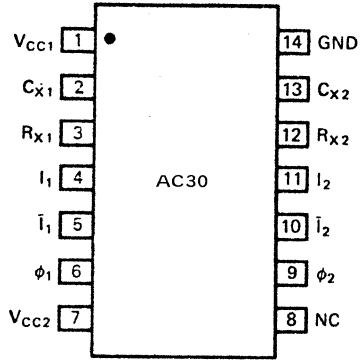
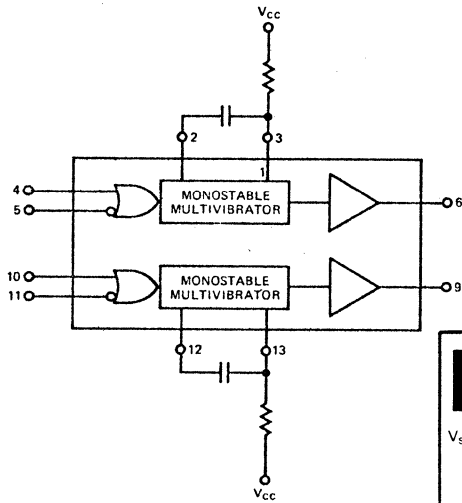
AC29



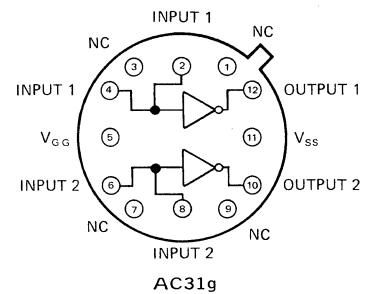
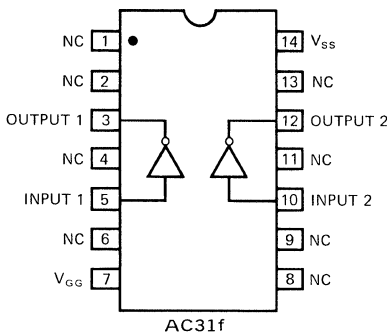
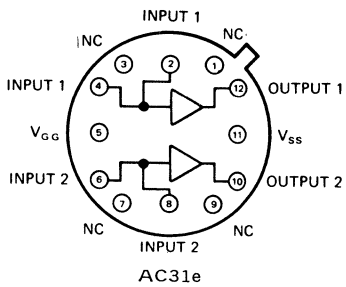
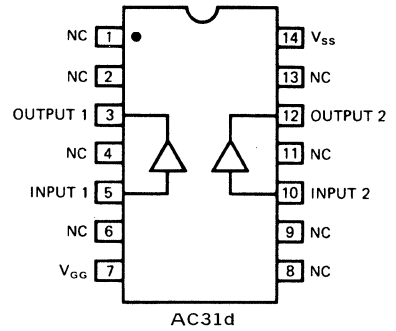
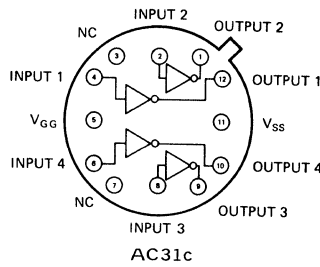
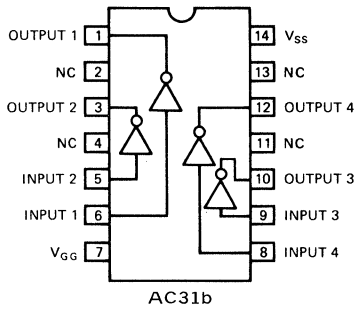
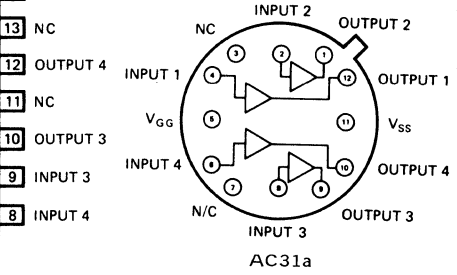
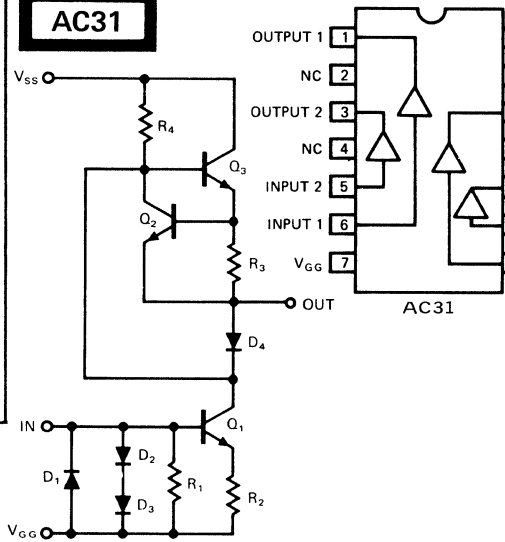
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

AC30



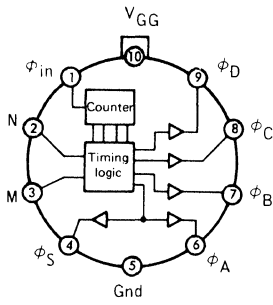
AC31



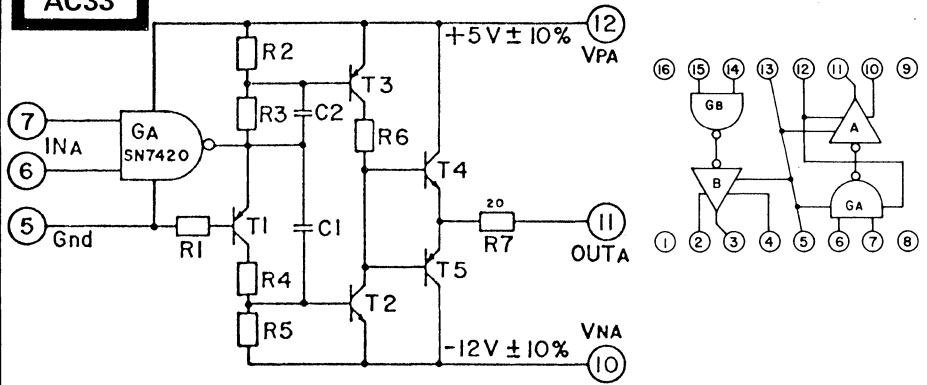
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

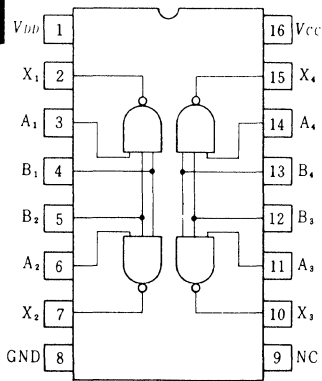
AC32



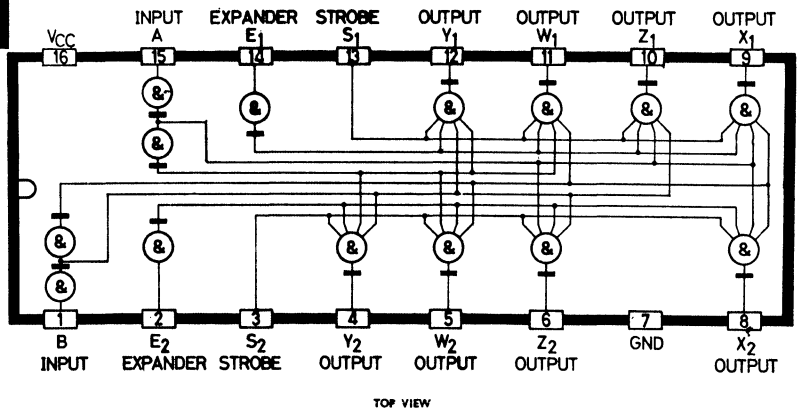
AC33



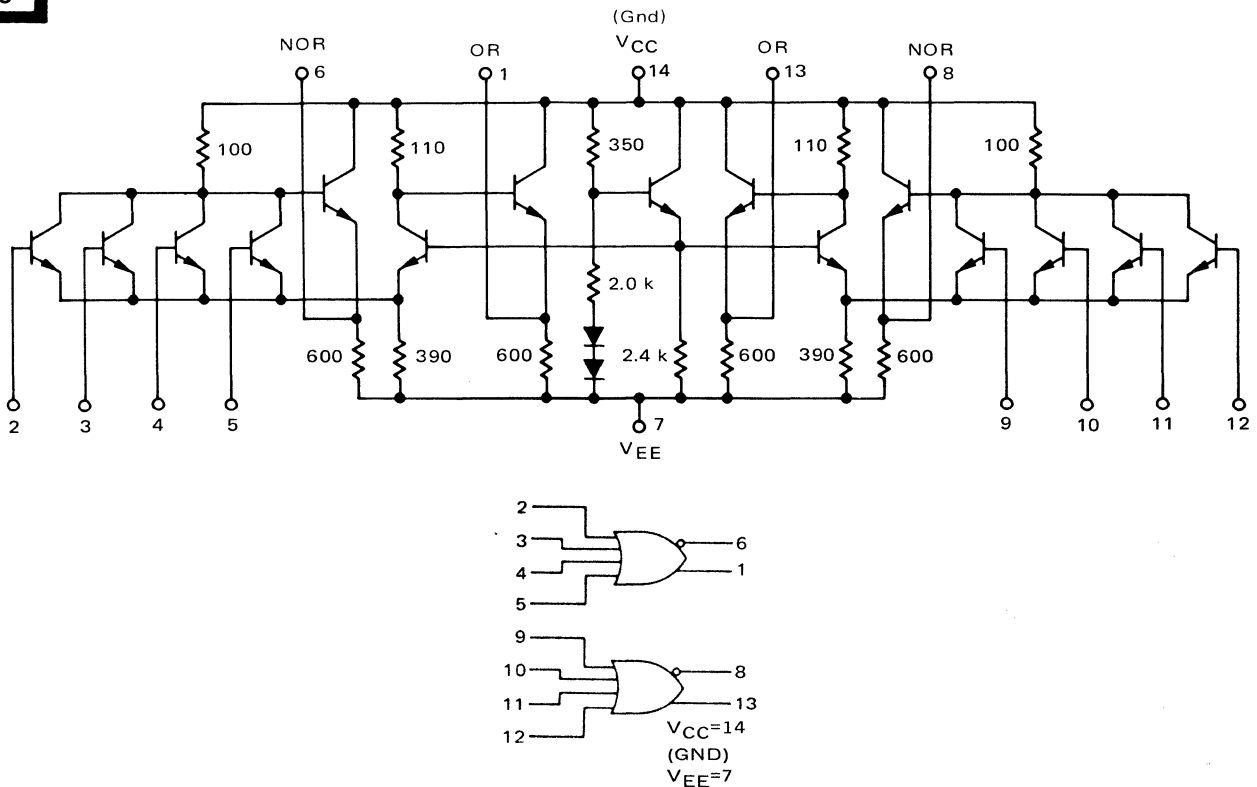
AC34



AC35



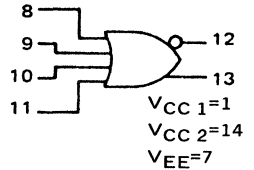
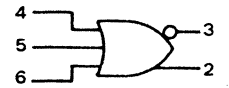
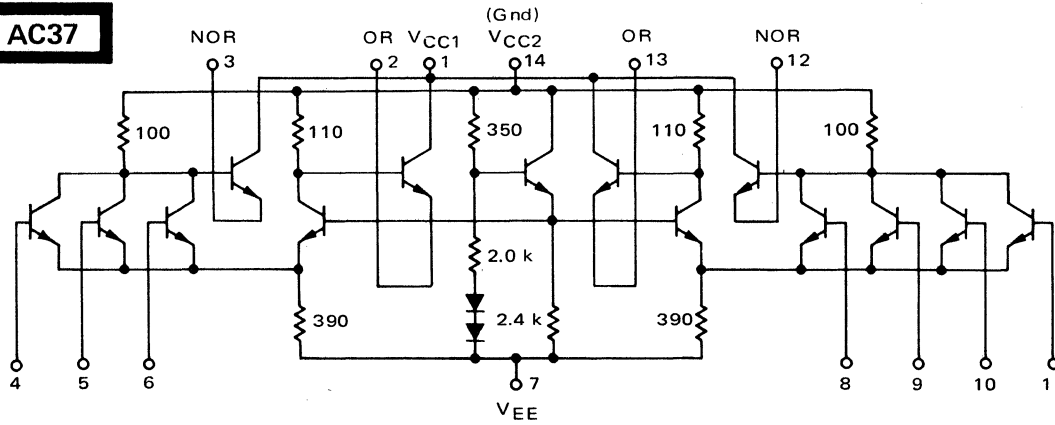
AC36



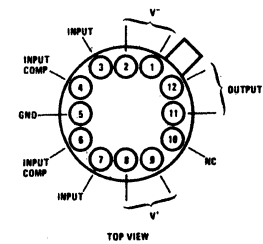
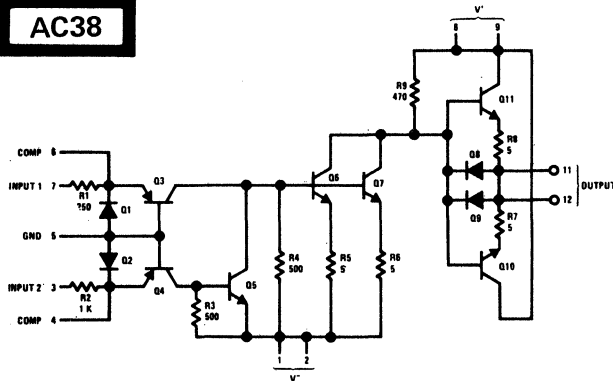
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

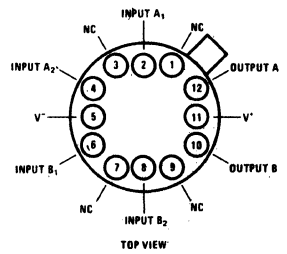
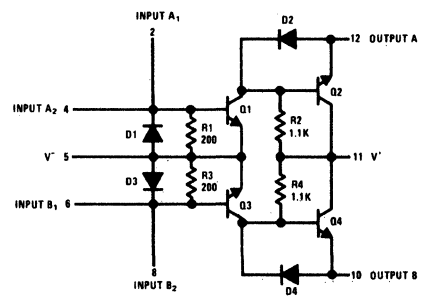
AC37



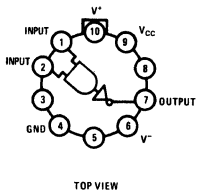
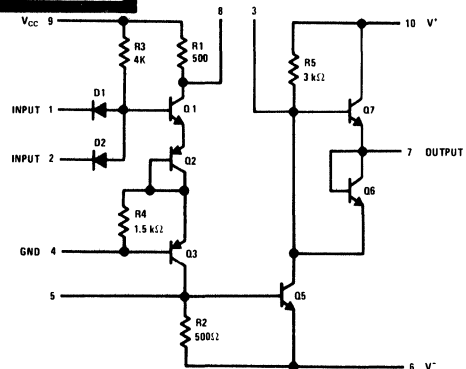
AC38



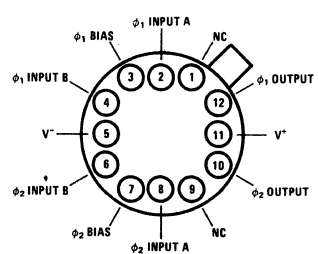
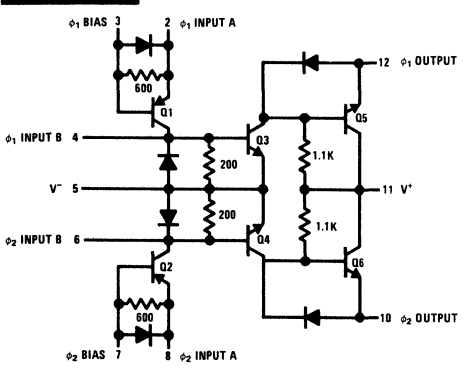
AC39



AC40



AC41

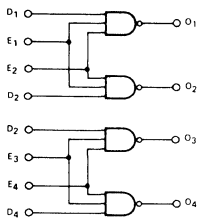
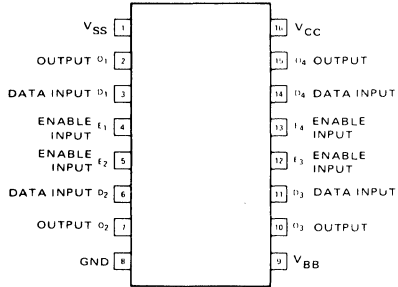


V⁺ = +5.0V
V⁻ = -12V

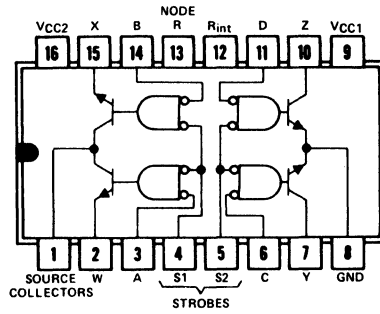
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

AC42



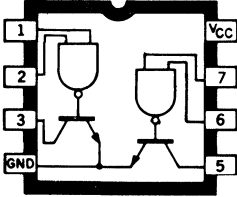
AC43



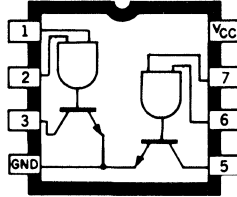
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

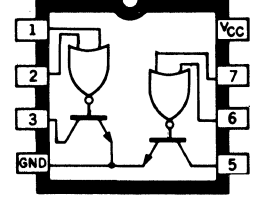
AD1



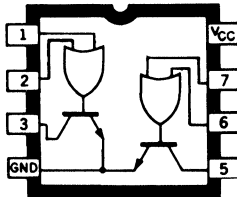
AD2



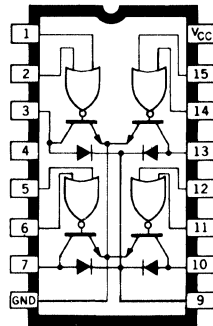
AD3



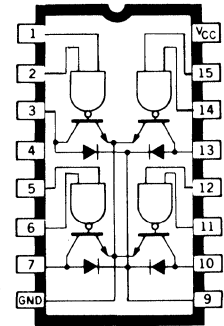
AD4



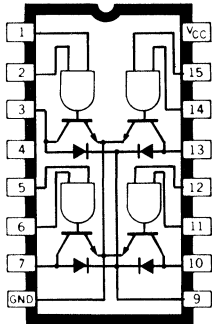
AD5



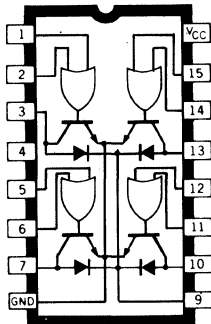
AD6



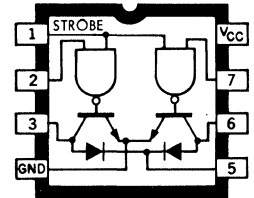
AD7



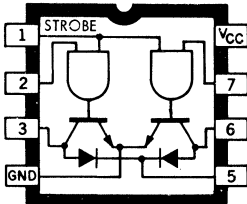
AD8



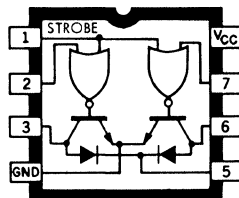
AD9



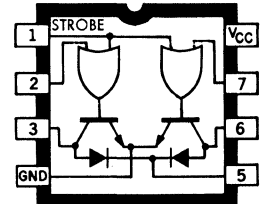
AD10



AD11



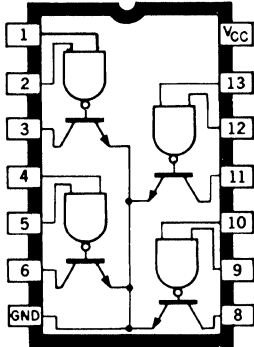
AD12



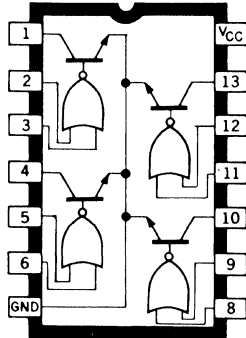
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

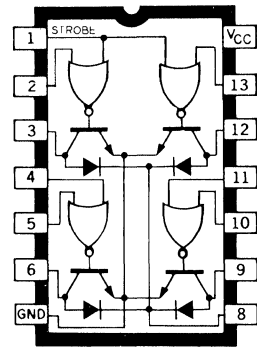
AD13



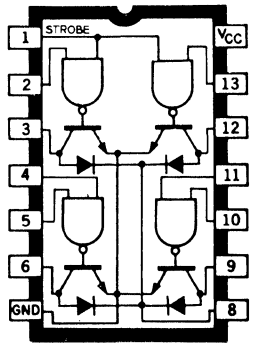
AD14



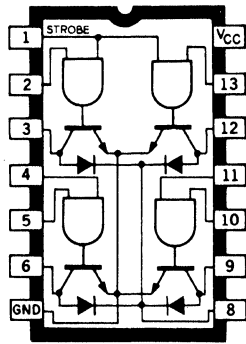
AD15



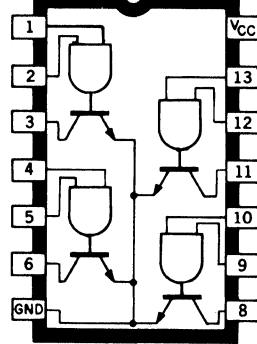
AD16



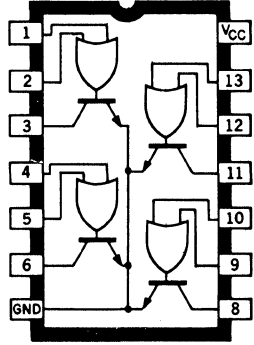
AD17



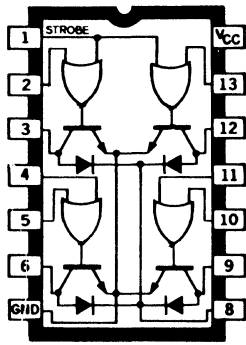
AD18



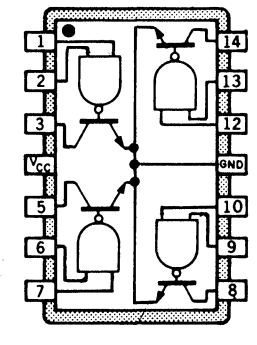
AD19



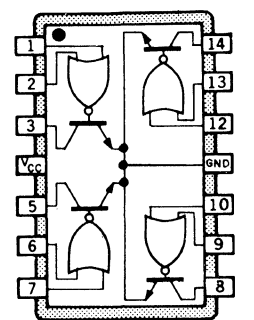
AD20



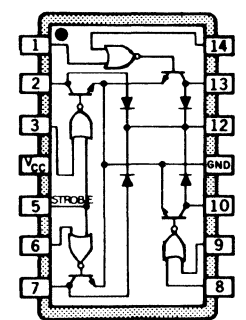
AD21



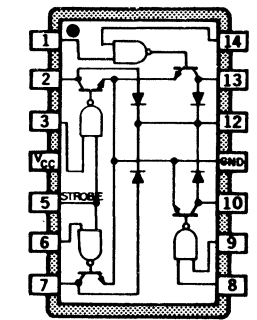
AD22



AD23



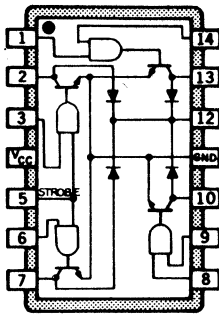
AD24



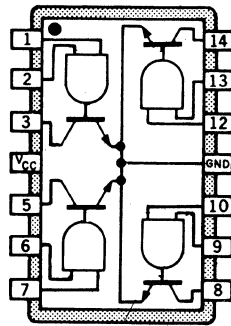
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

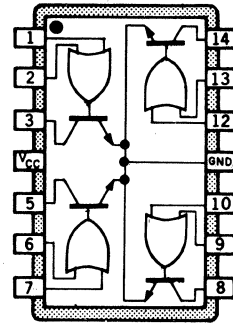
AD25



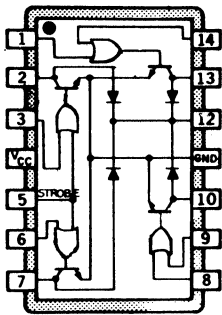
AD26



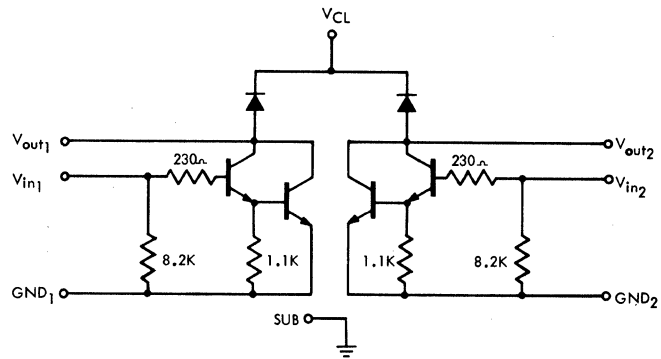
AD27



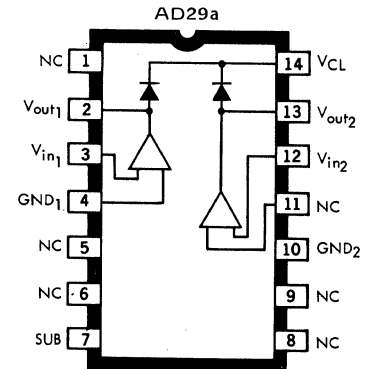
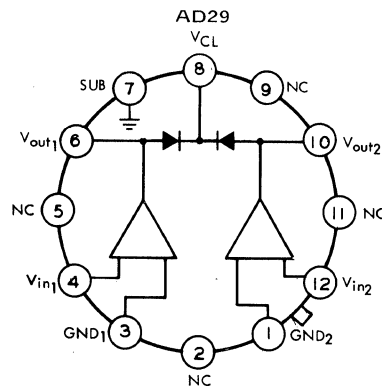
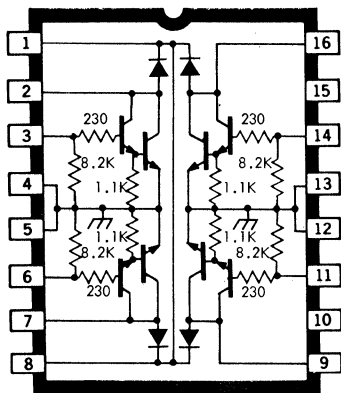
AD28



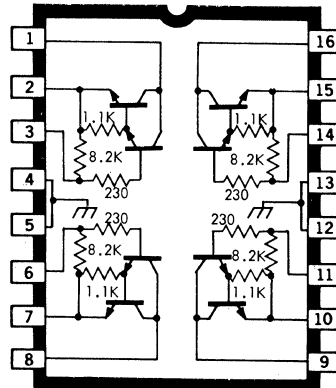
AD29



AD30



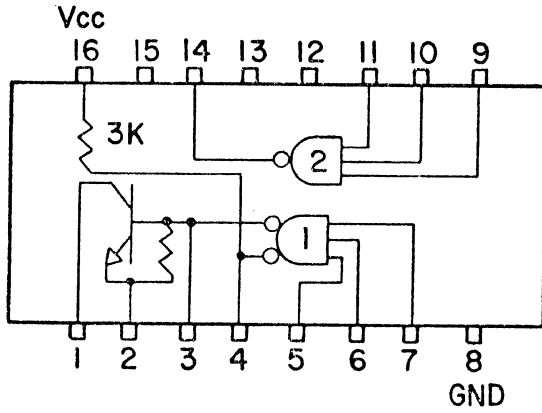
AD31



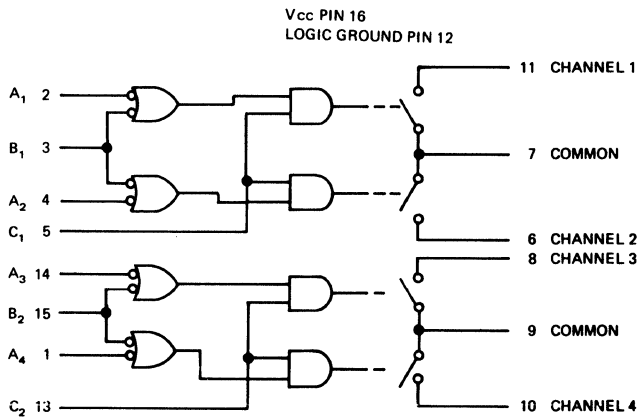
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

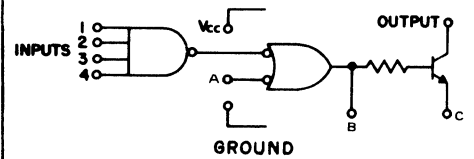
AD32



AD33

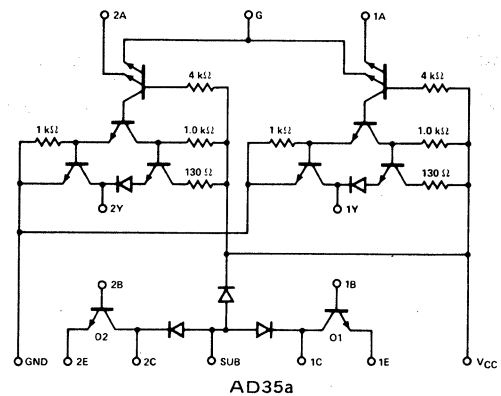
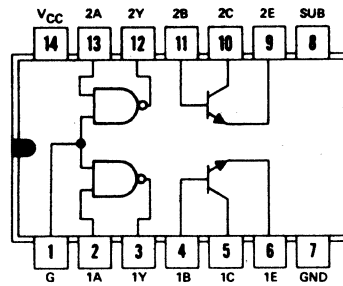
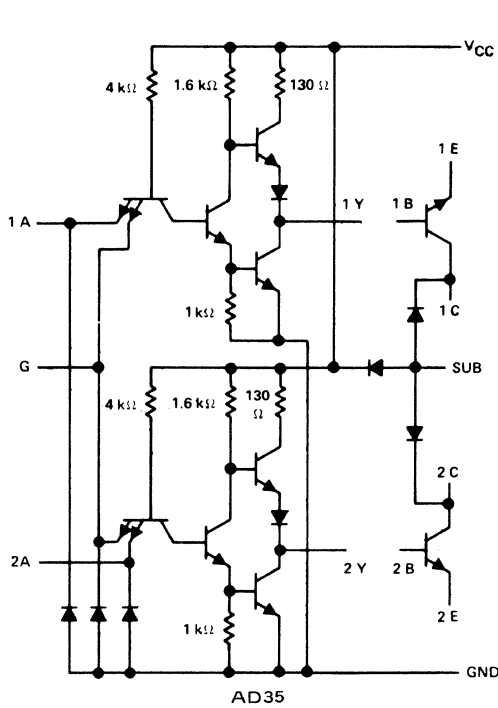


AD34



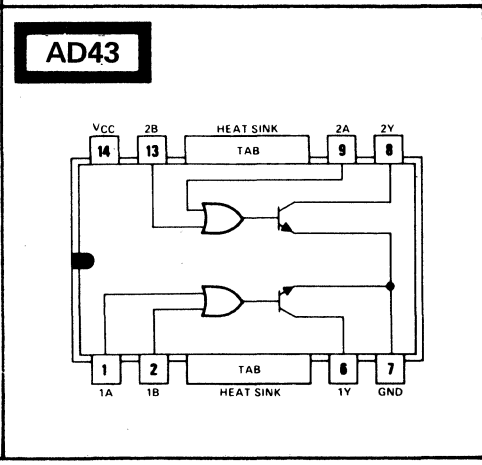
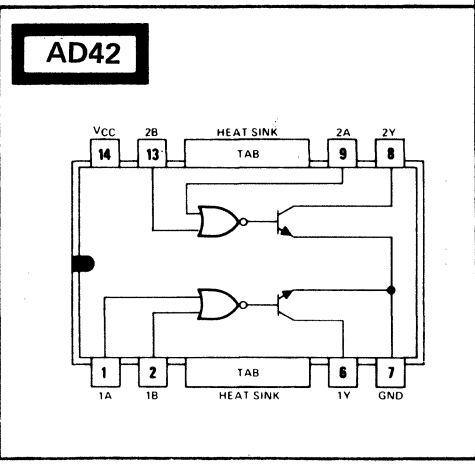
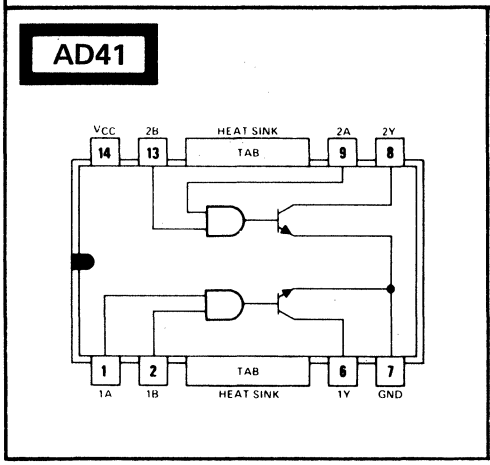
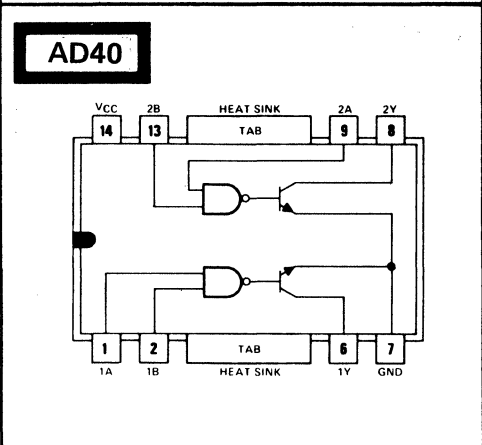
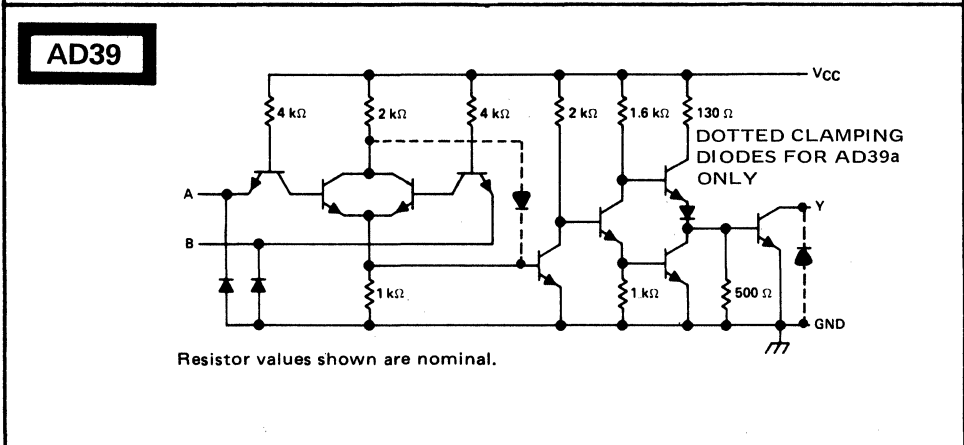
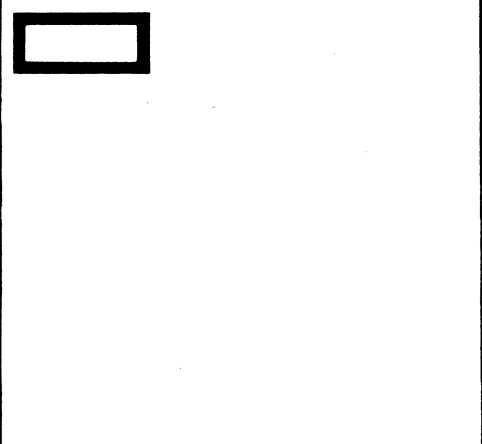
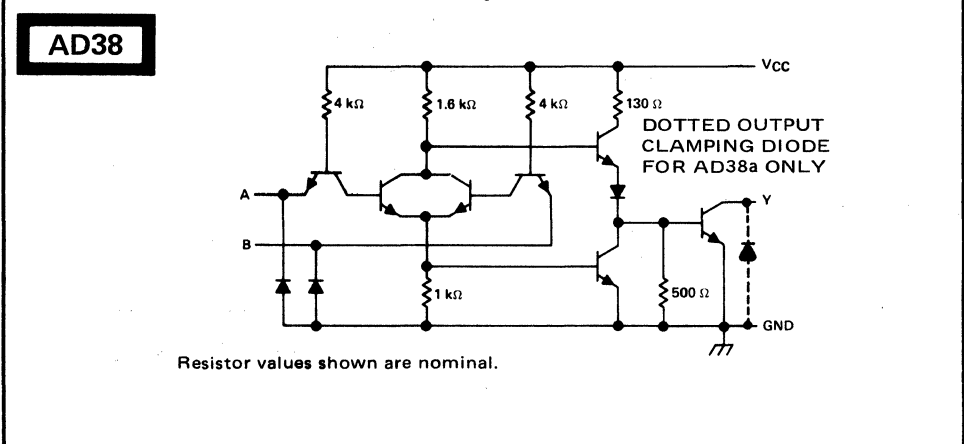
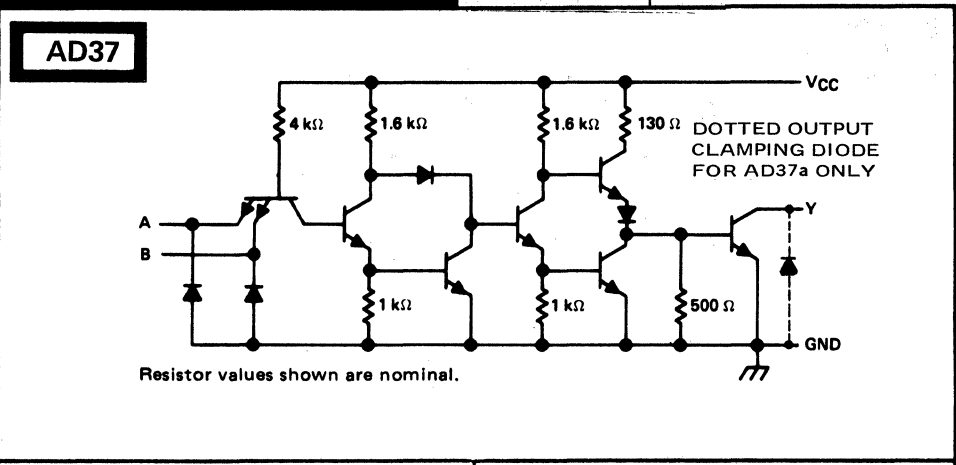
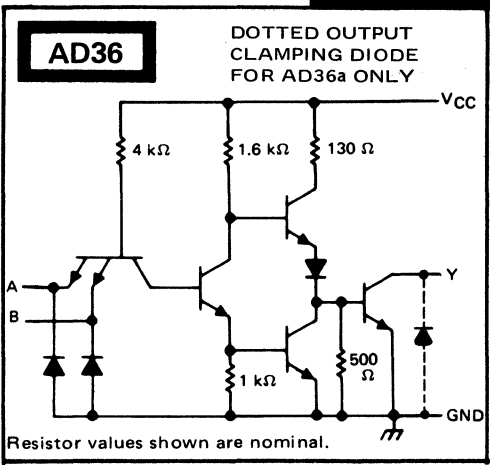
	1	2	3	4	A	B	C	OUTP	VCC	GND
AD34	1	2	3	4	13	10	8	9	14	7
AD34a	1	2	3	4	9	8	7	8	10	5

AD35



27. LOGIC/BLOCK DRAWINGS

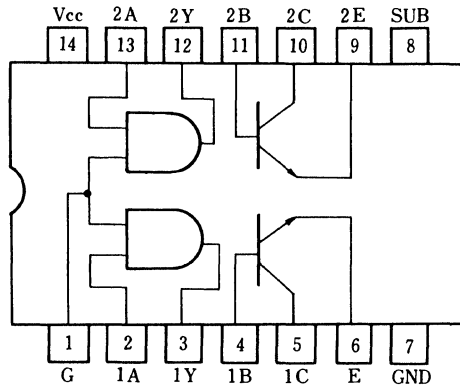
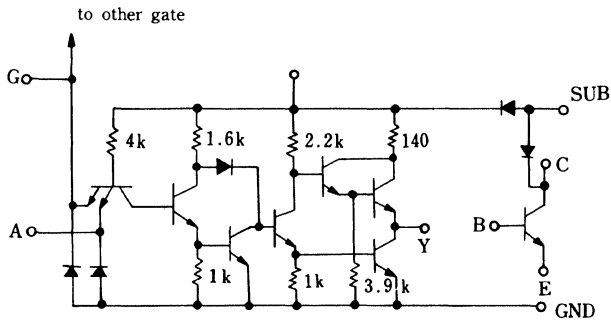
IN DRAWING NUMBER
SEQUENCE



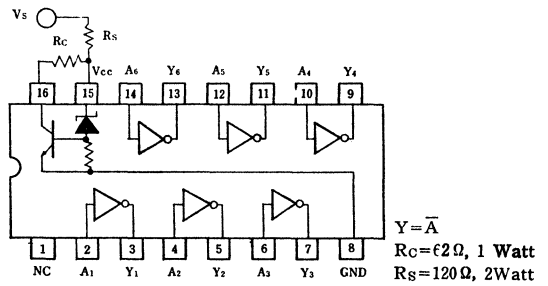
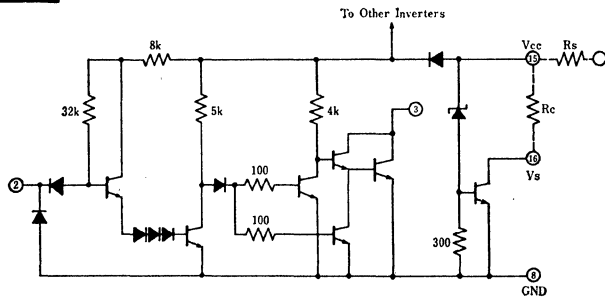
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

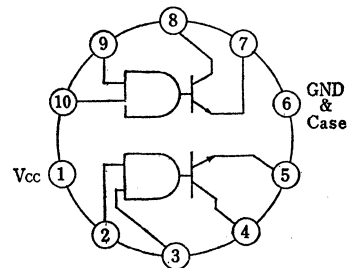
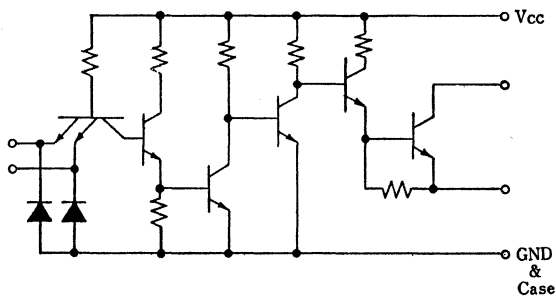
AD44



AD45



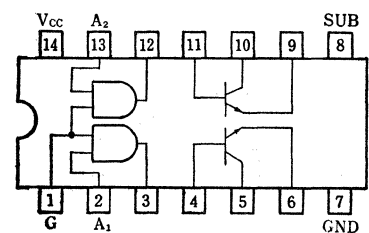
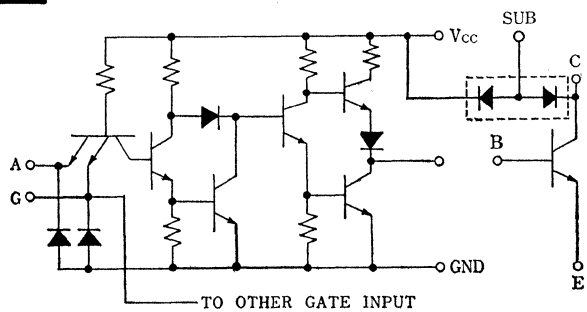
AD46



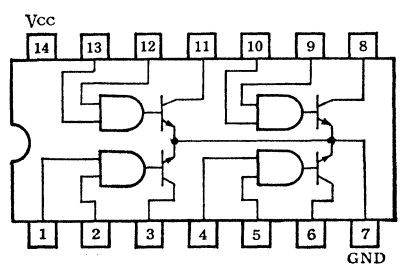
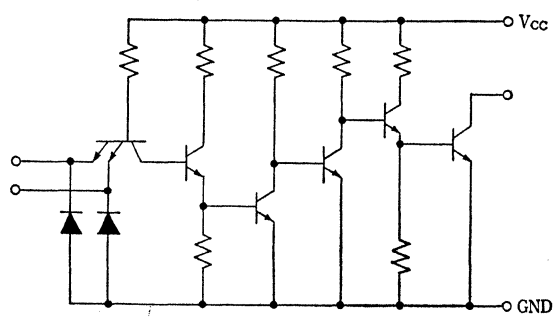
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

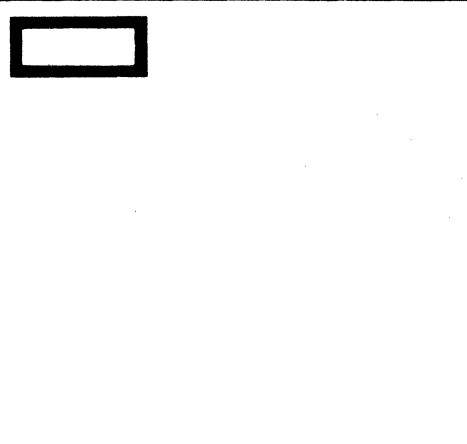
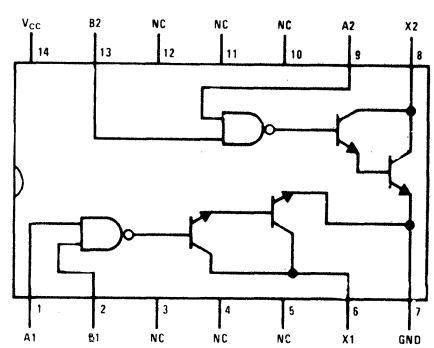
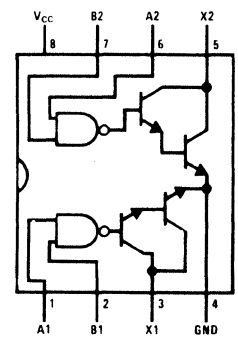
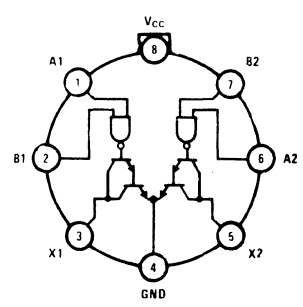
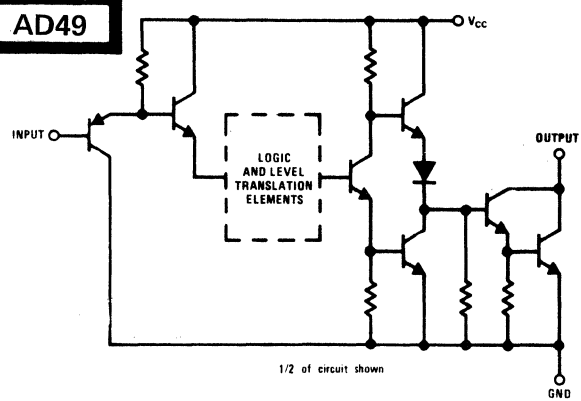
AD47



AD48



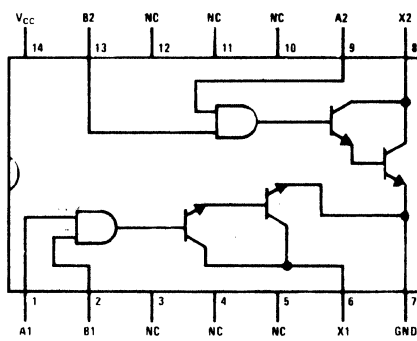
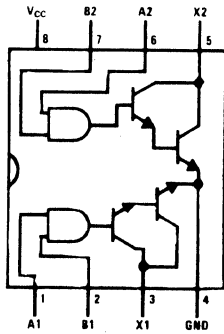
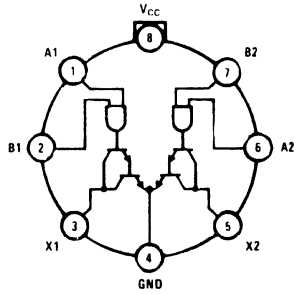
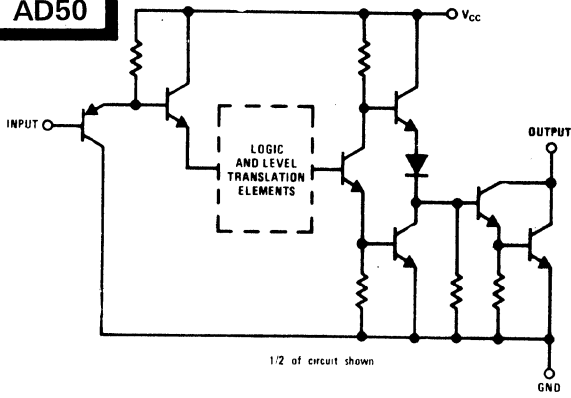
AD49



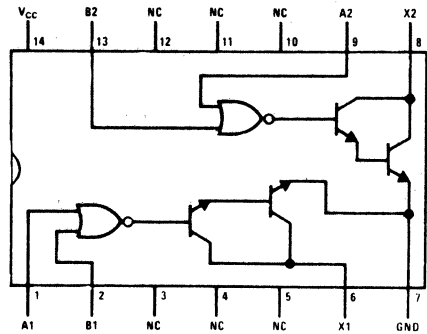
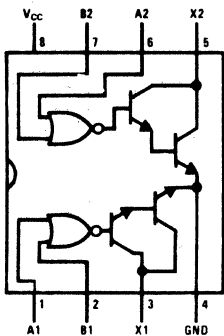
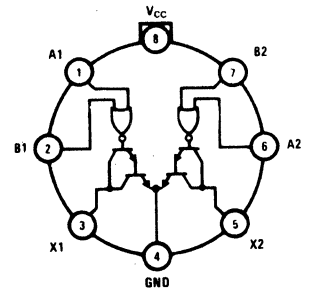
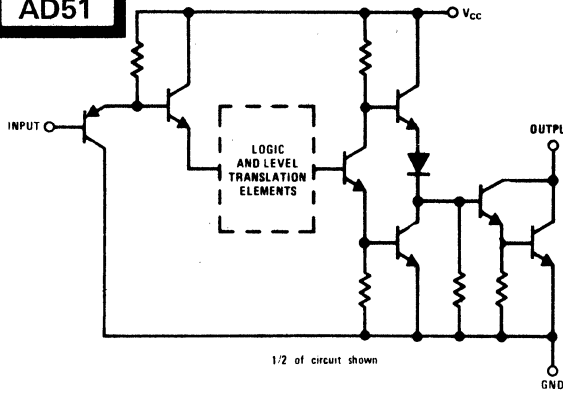
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

AD50



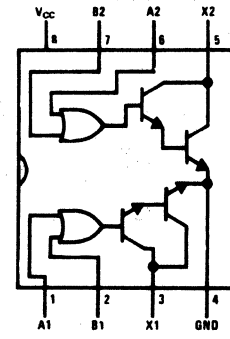
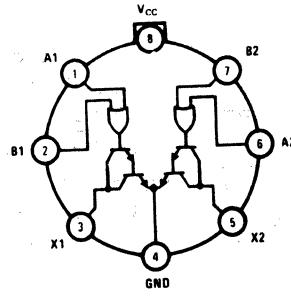
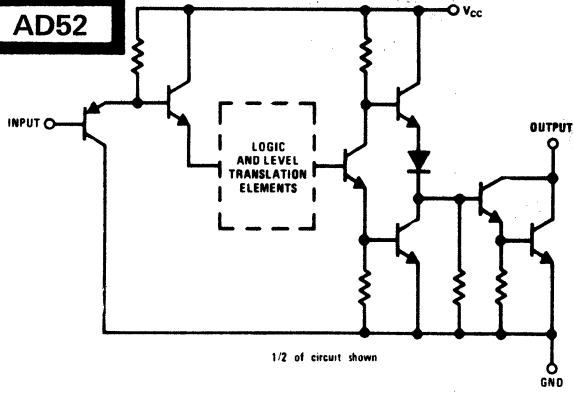
AD51



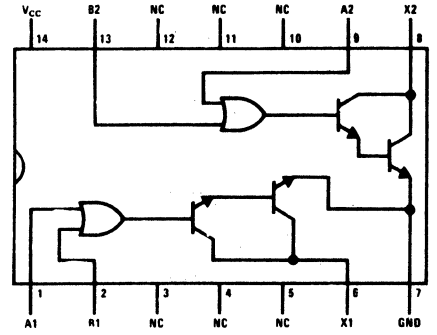
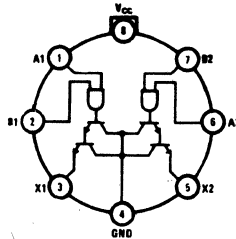
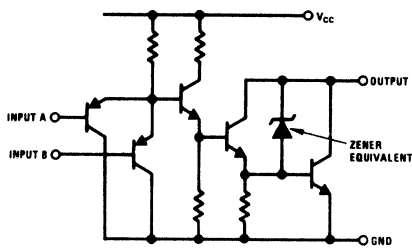
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

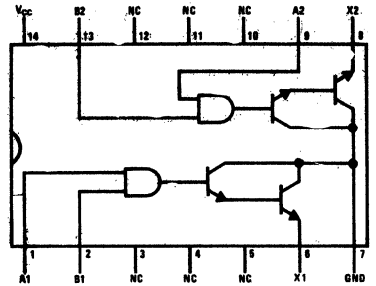
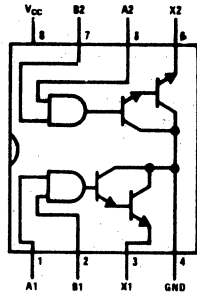
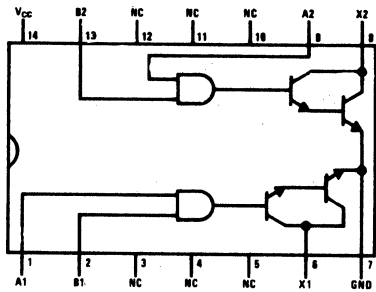
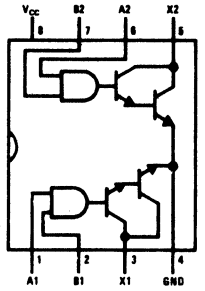
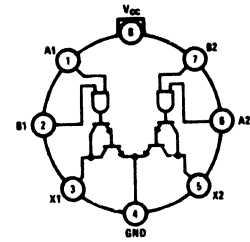
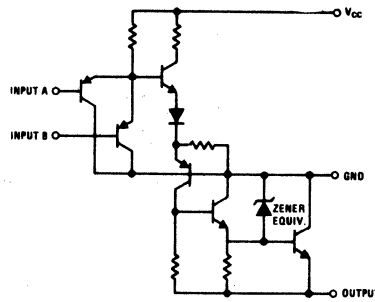
AD52



AD53



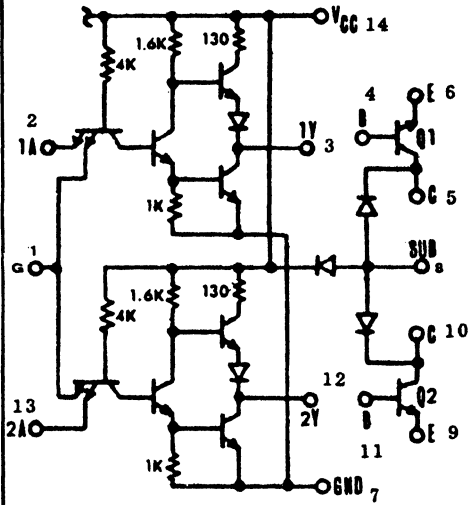
AD54



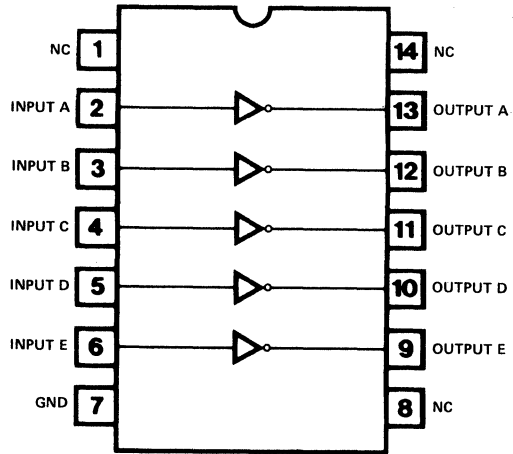
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

AD58

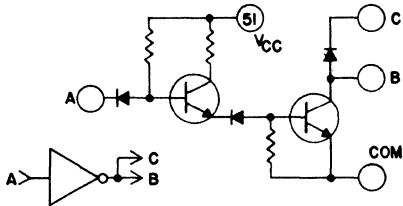


AD59

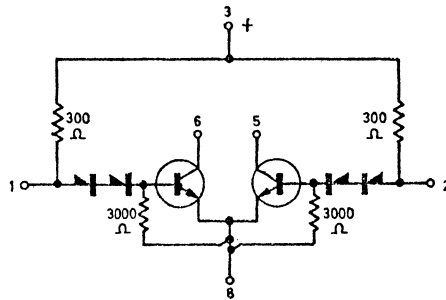


AD60

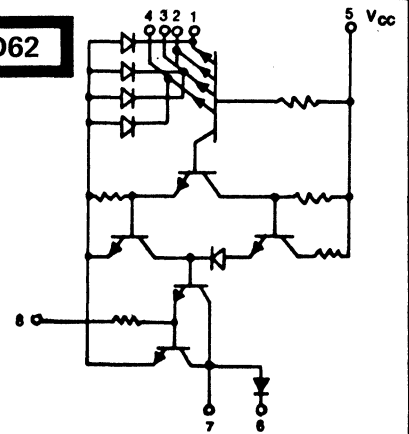
CKT NO.	A	B	C	COM
1	11	7	5	1,
2	19	5	13	2,
3	29	5	23	39,
4	37	33	35	52,
5	45	43	47	



AD61



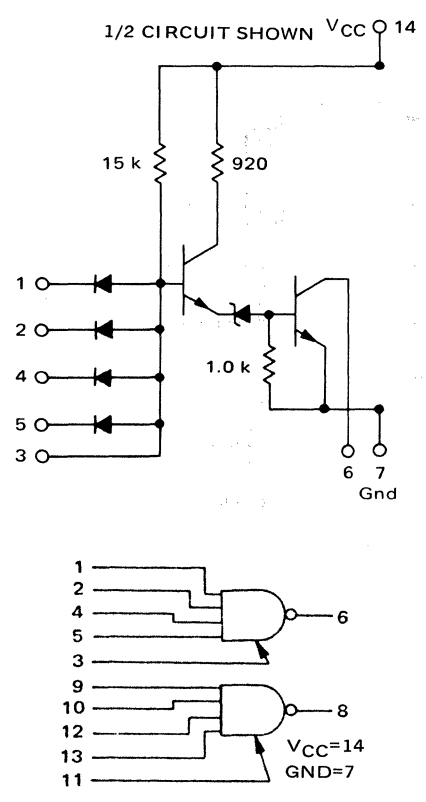
AD62



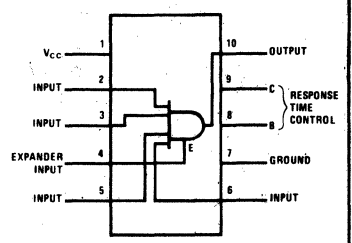
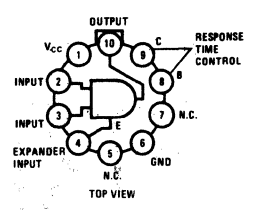
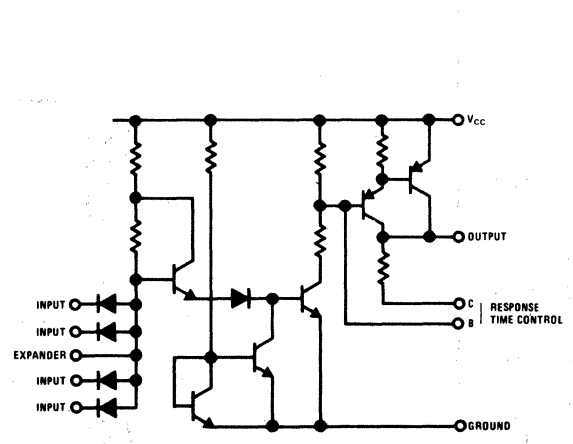
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

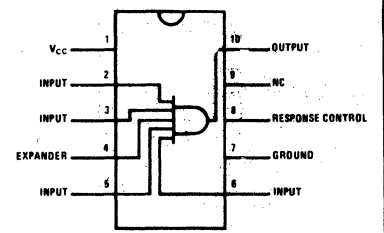
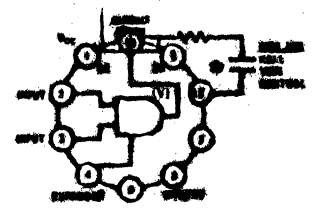
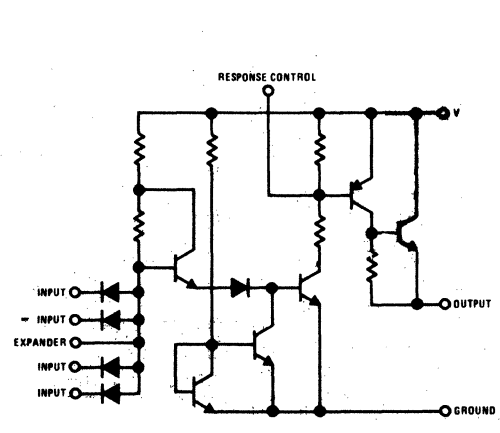
AD63



AD64



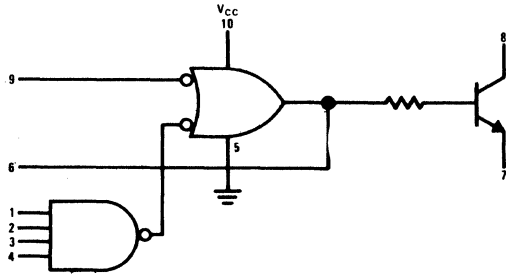
AD65



27. LOGIC/BLOCK DRAWINGS

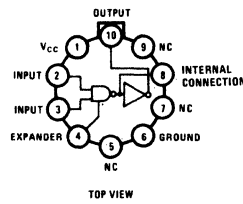
IN DRAWING NUMBER SEQUENCE

AD66

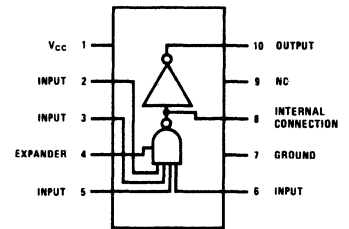


AD67

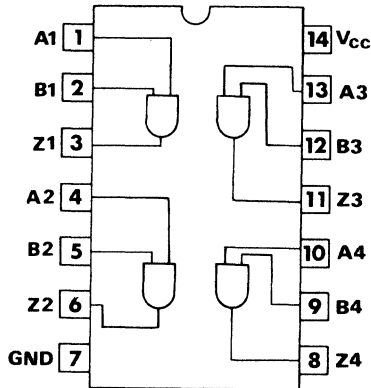
Metal Can Package



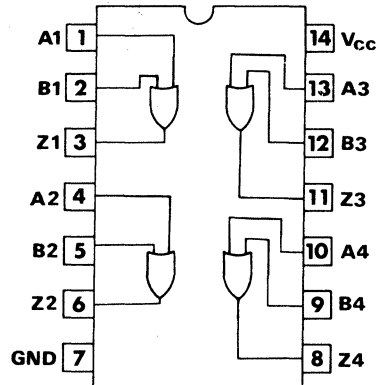
Molded Dual-In-Line Package



AD68



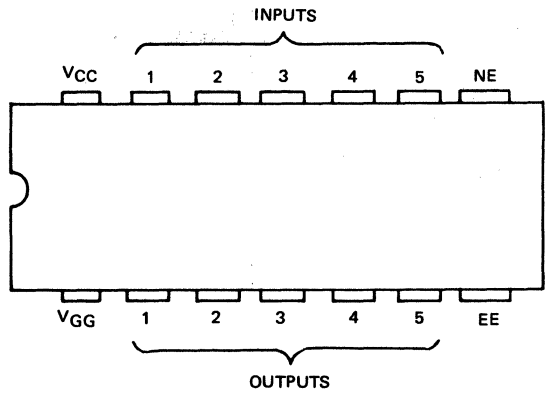
AD69



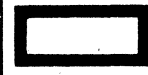
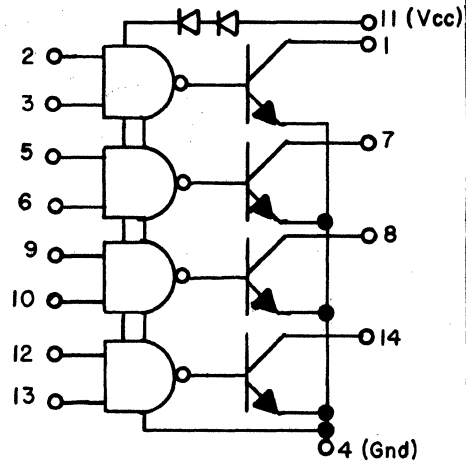
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

AD71



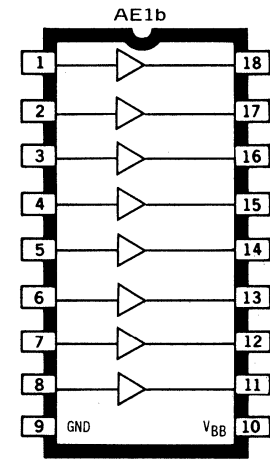
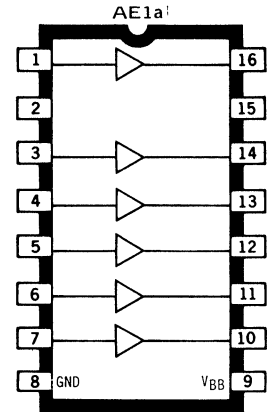
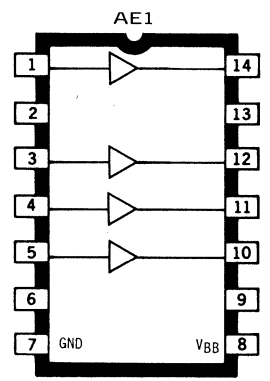
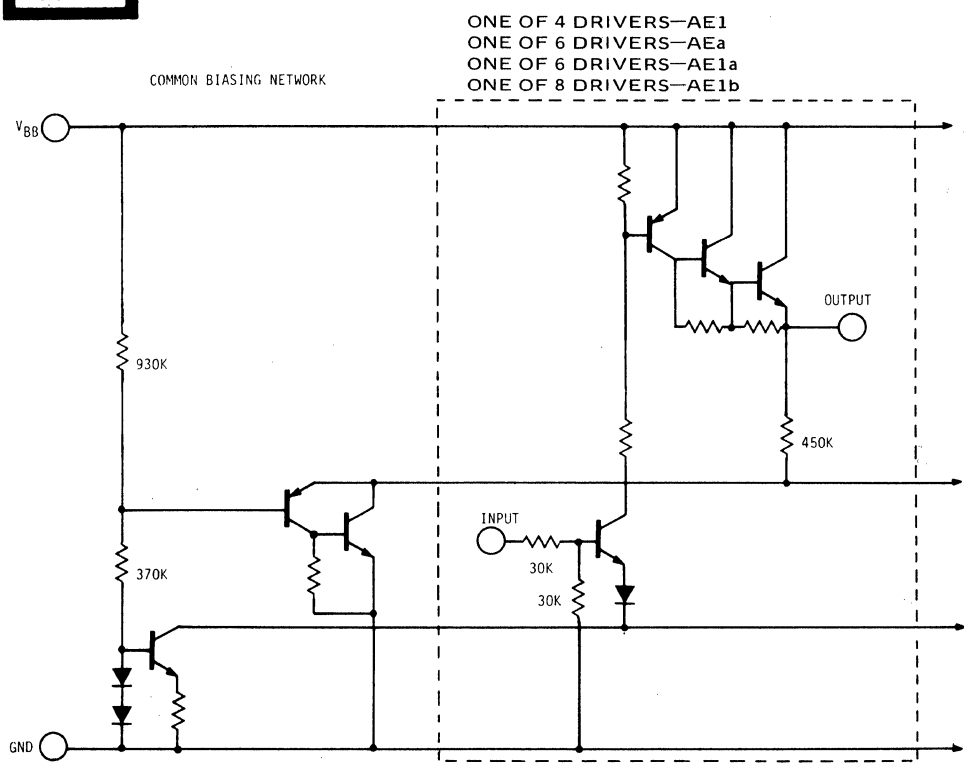
AD72



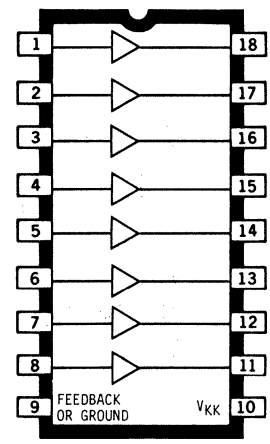
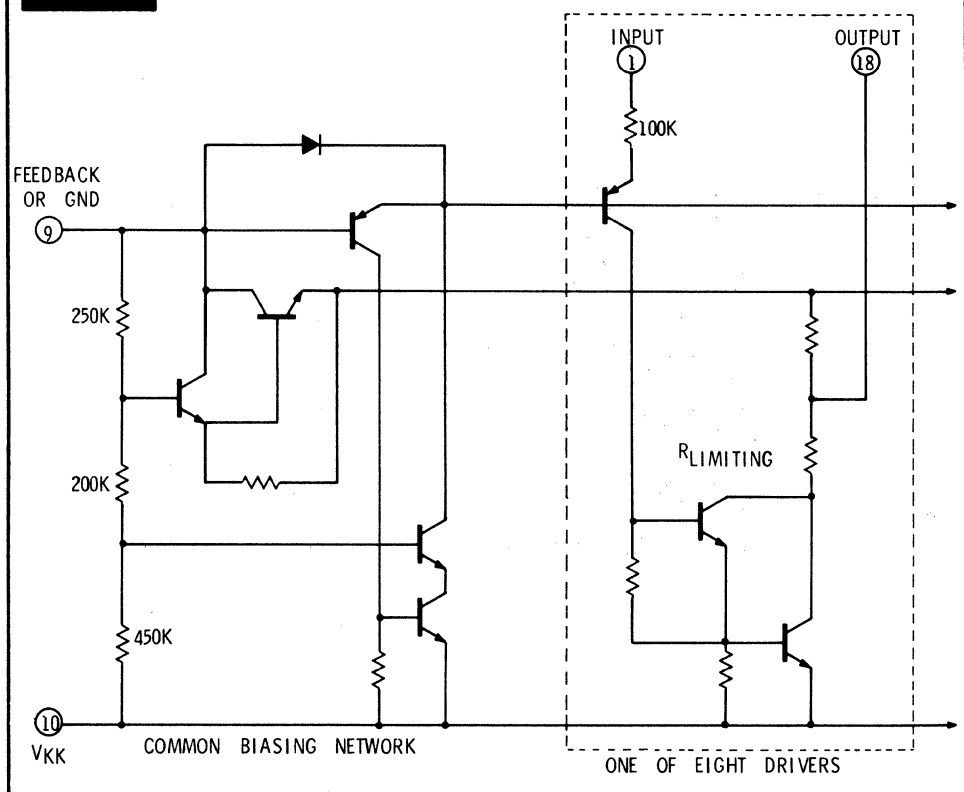
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

AE1



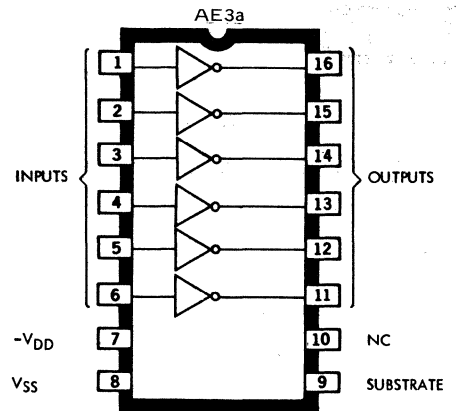
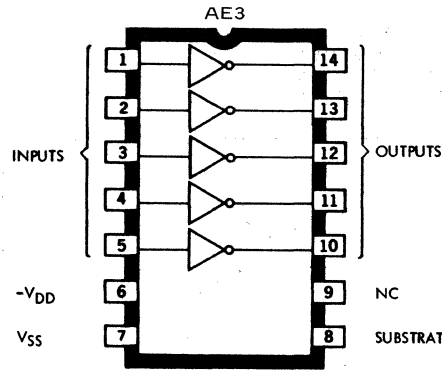
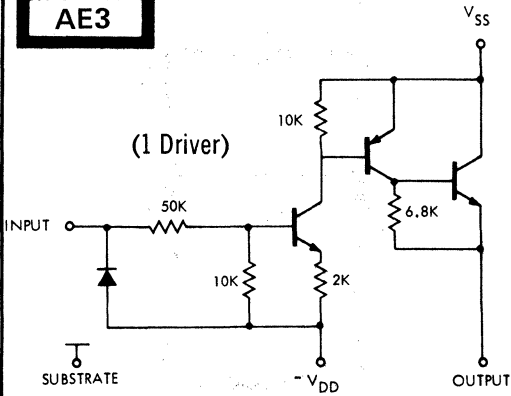
AE2



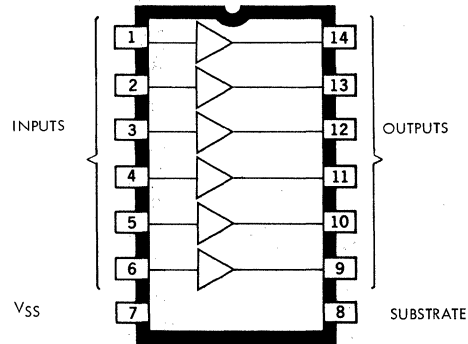
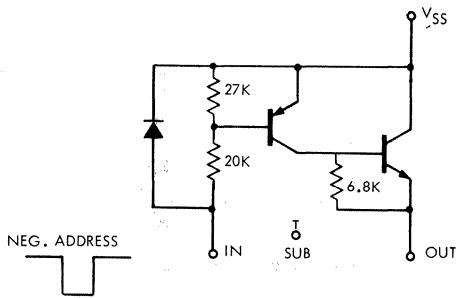
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

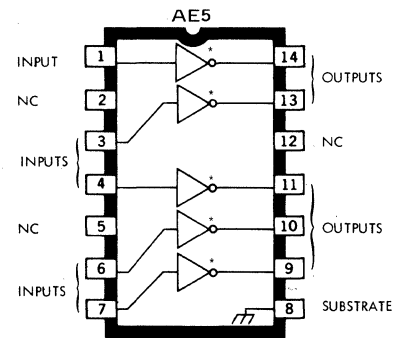
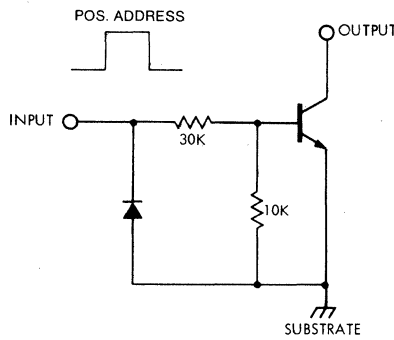
AE3



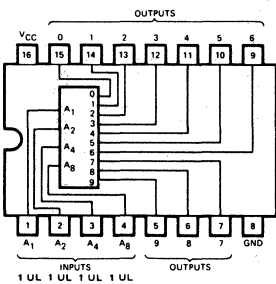
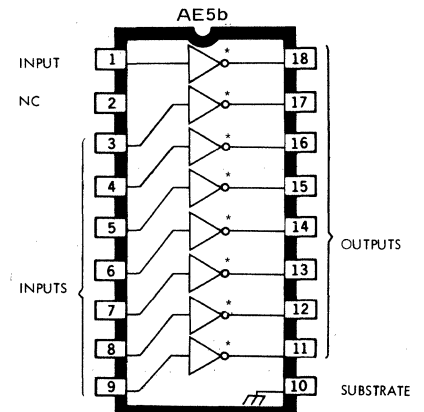
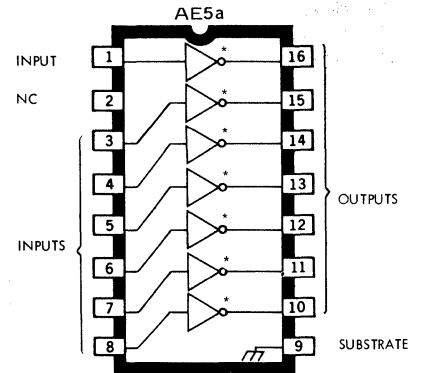
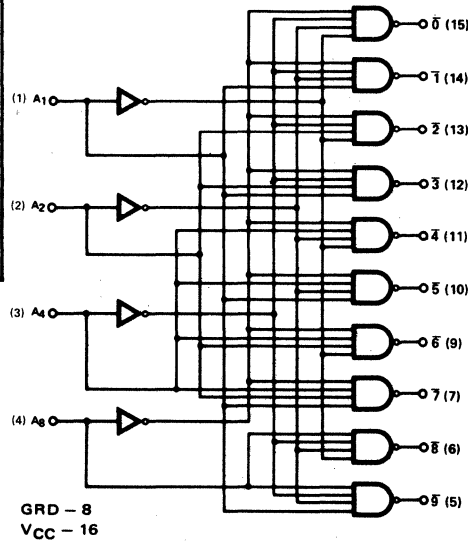
AE4



AE5



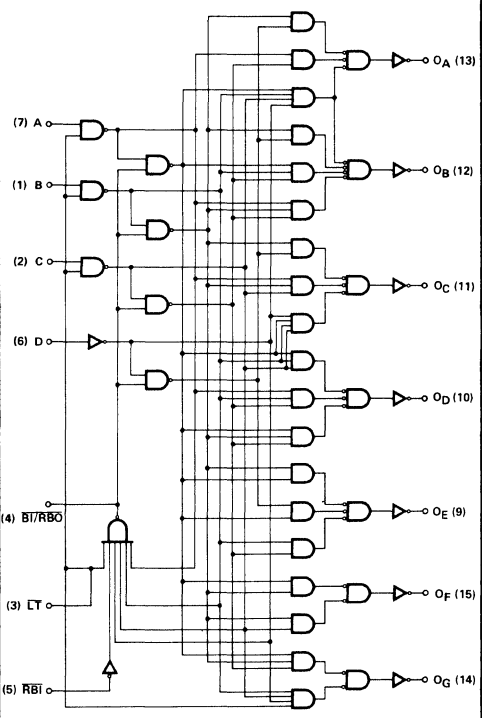
AE6



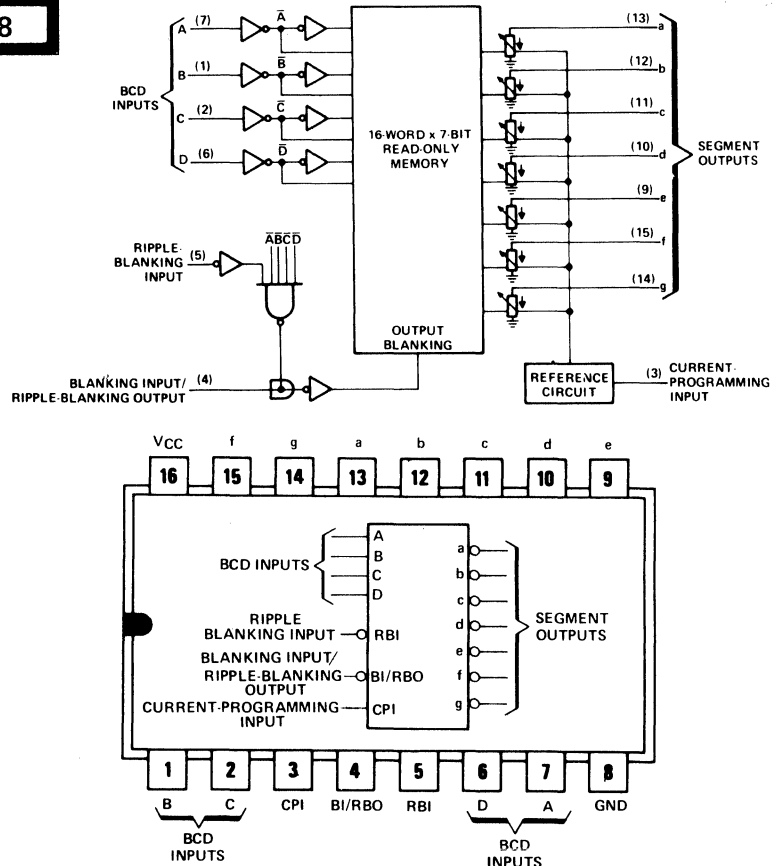
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

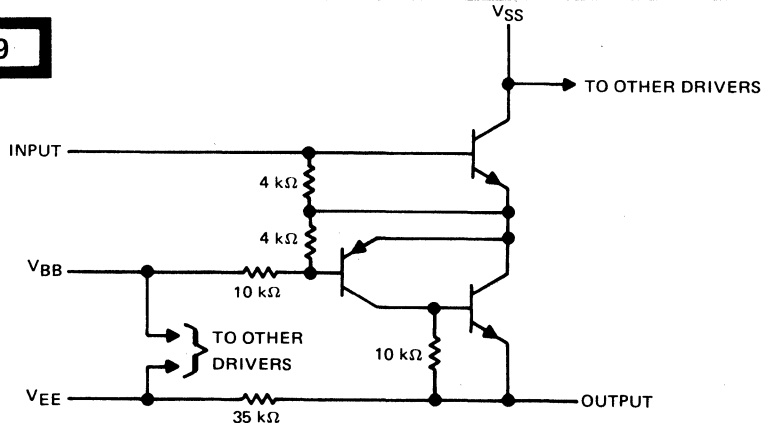
AE7



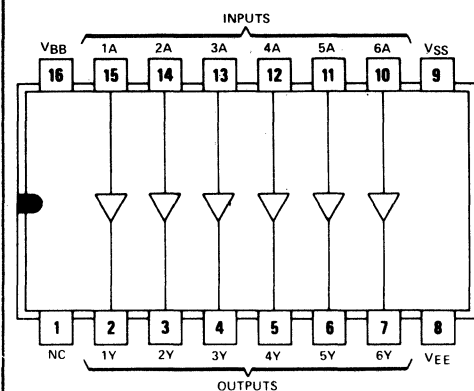
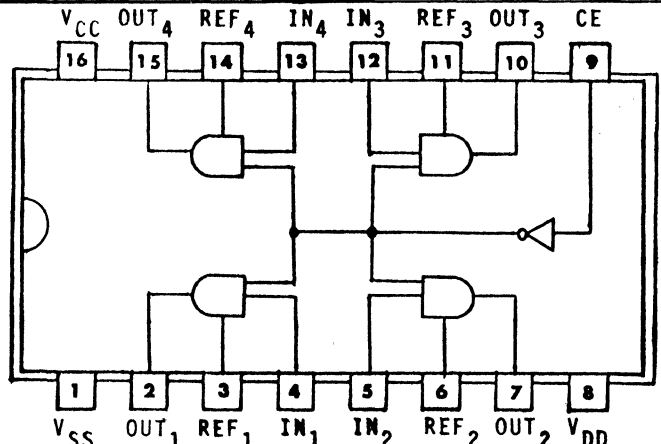
AE8



AE9



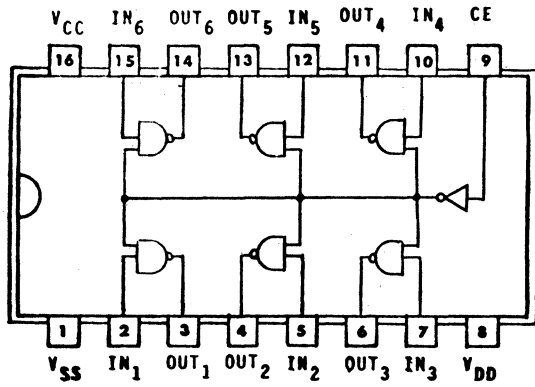
AE10



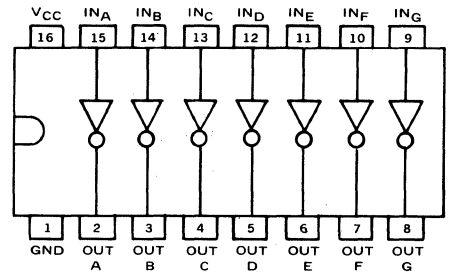
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

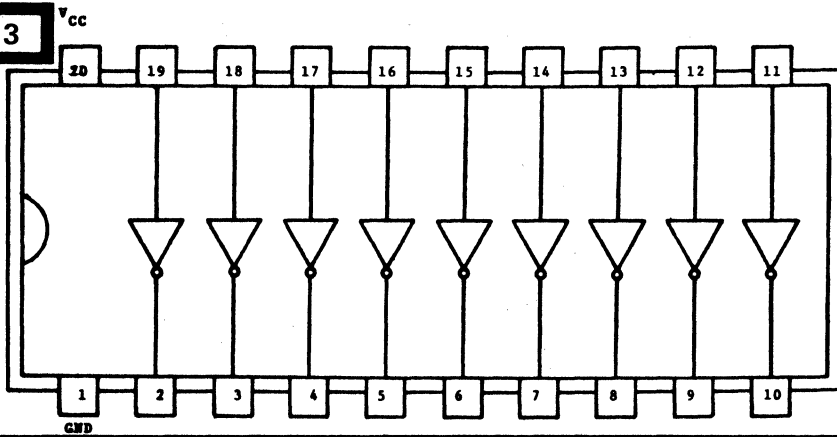
AE11



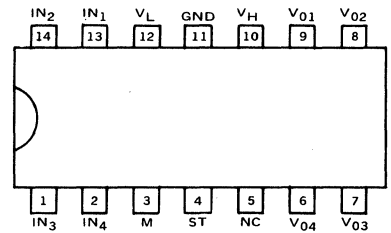
AE12



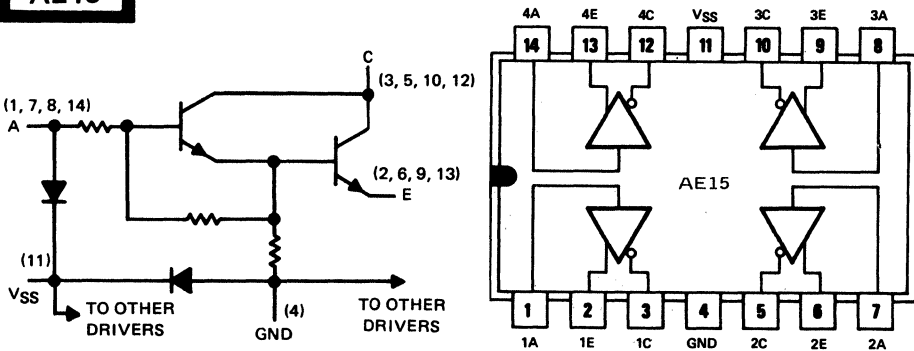
AE13



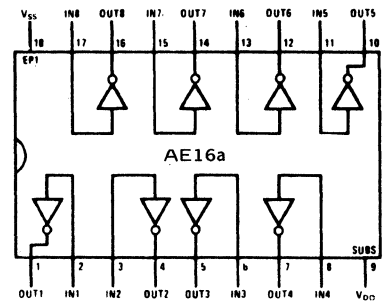
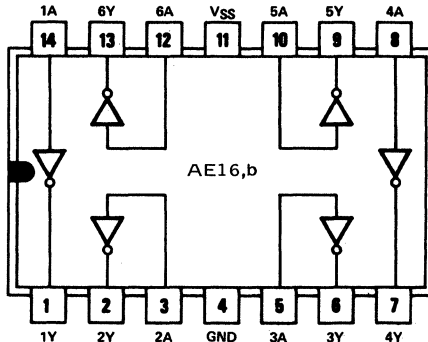
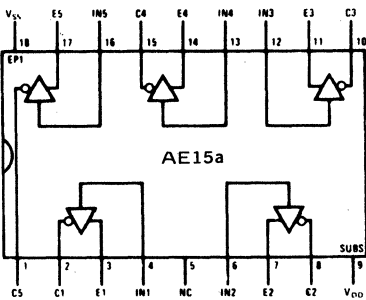
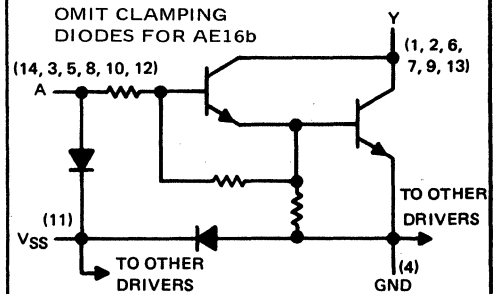
AE14



AE15



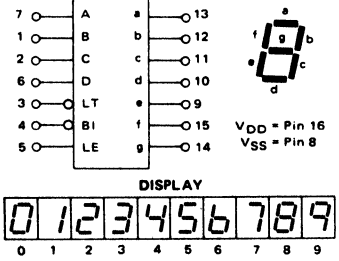
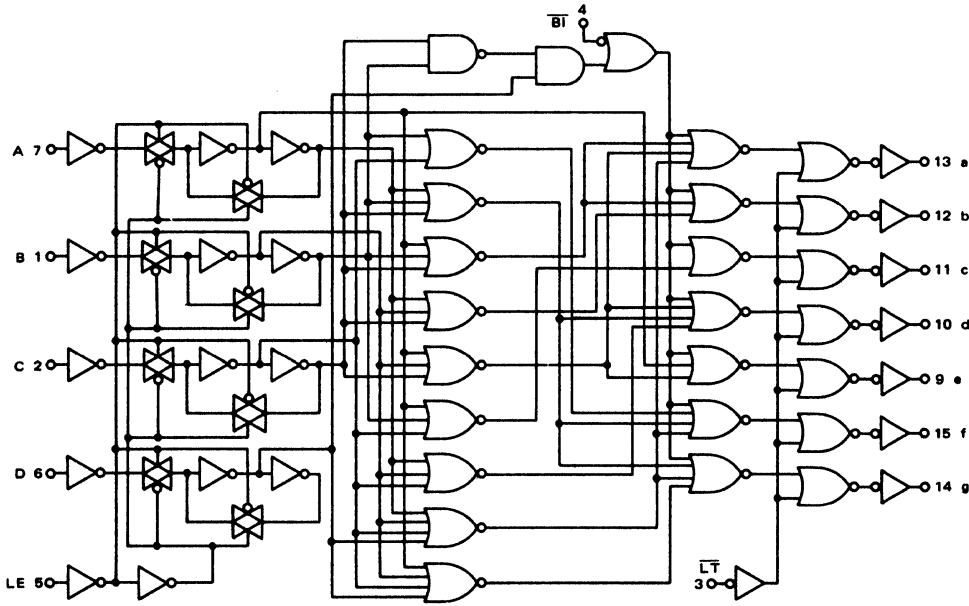
AE16



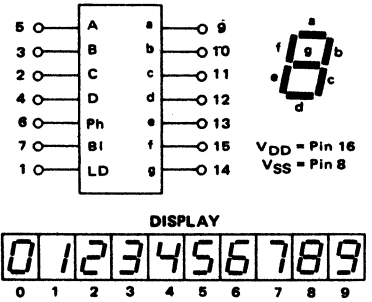
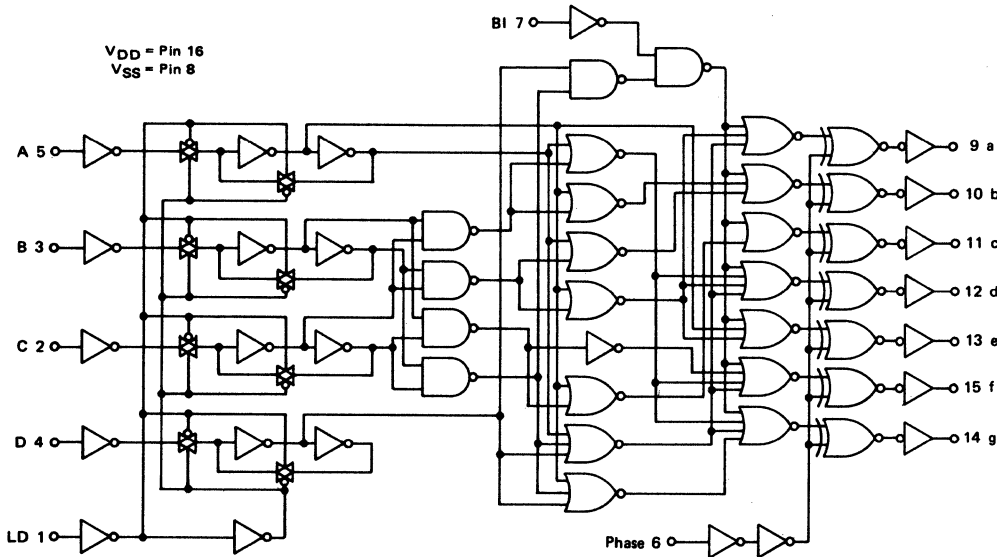
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

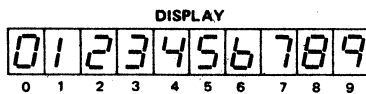
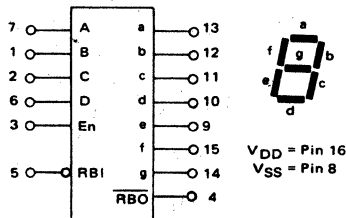
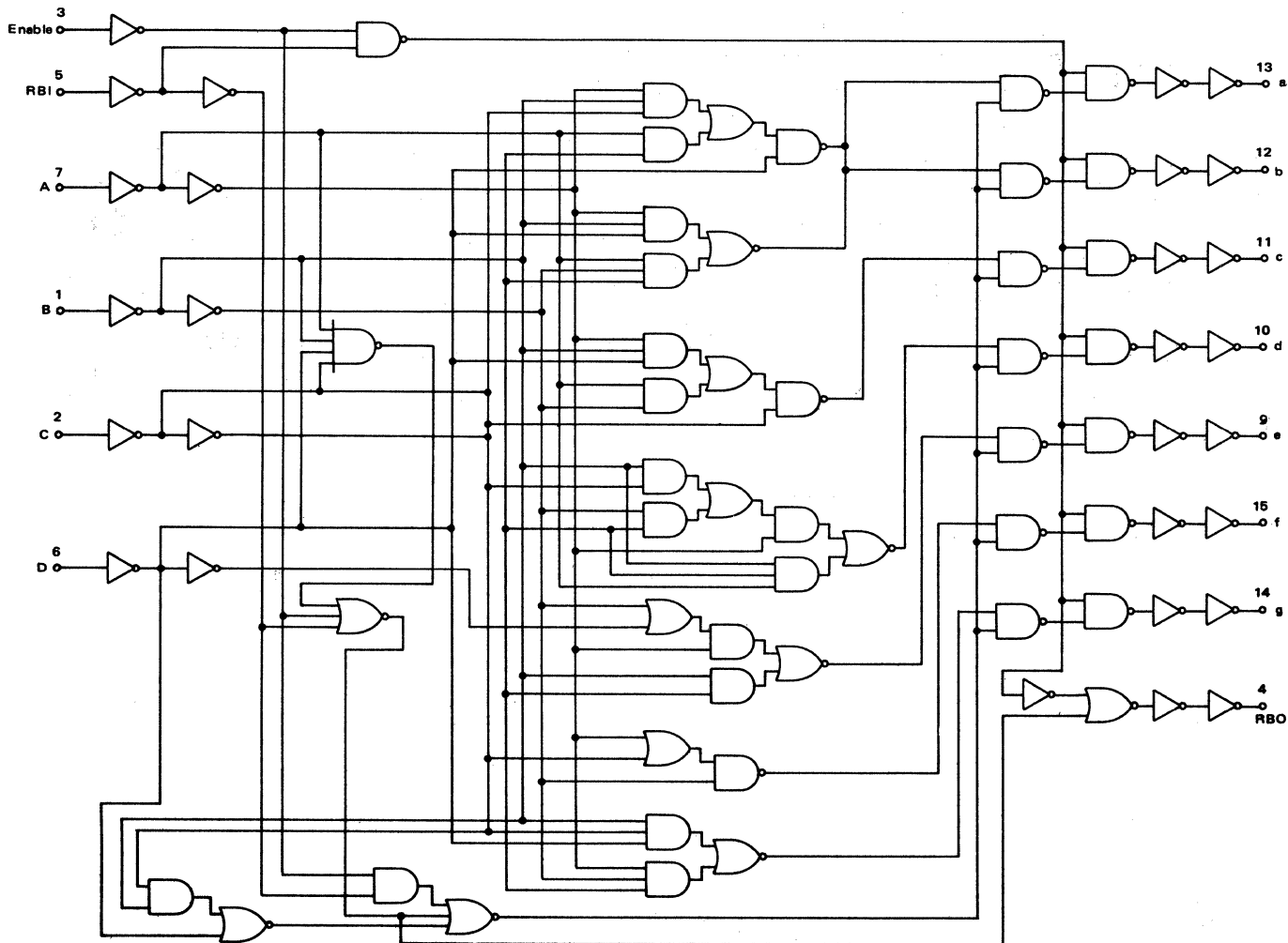
AE17



AE18



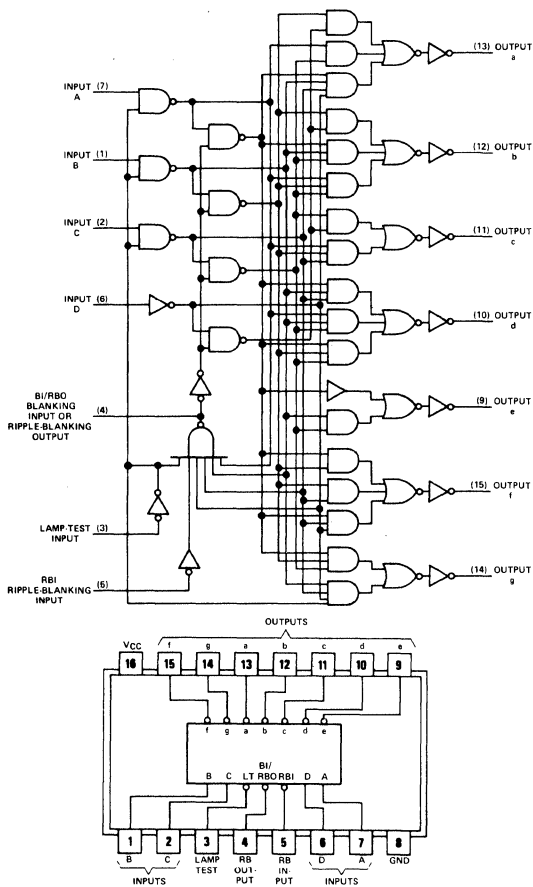
AE19



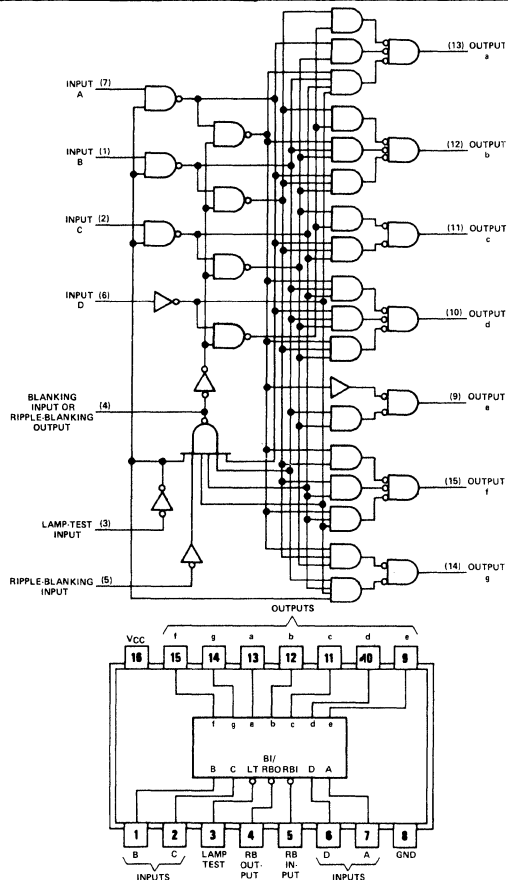
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

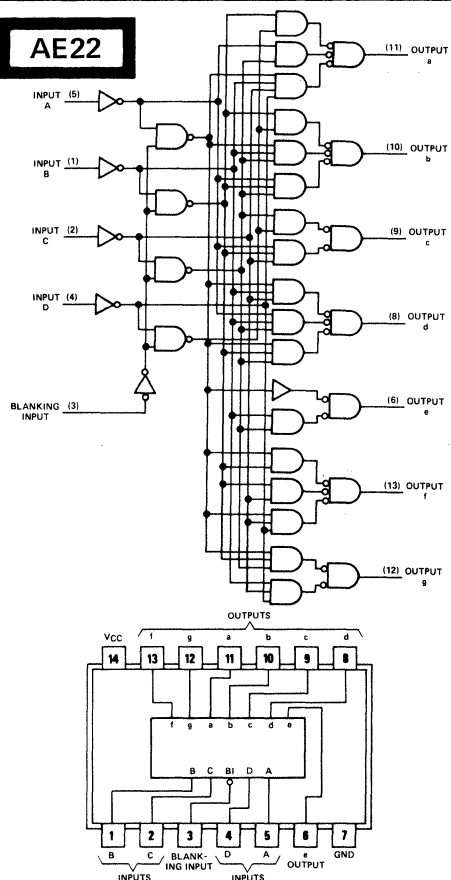
AE20



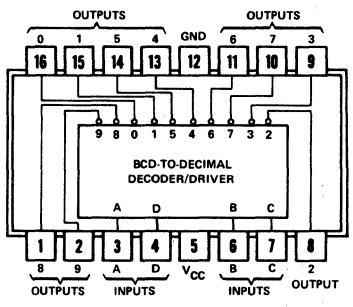
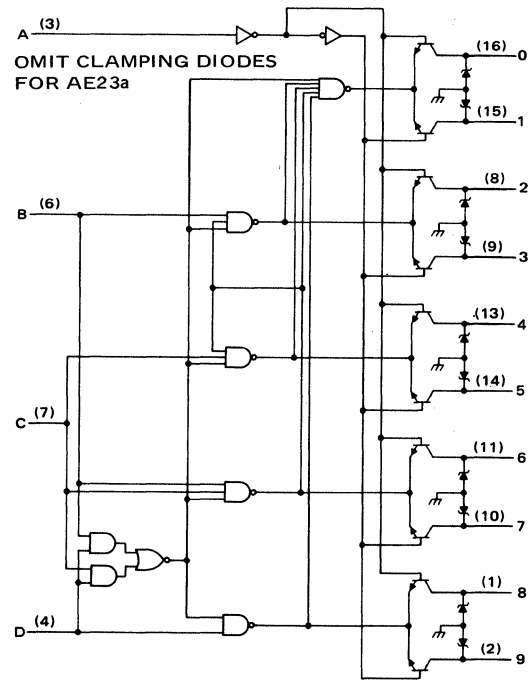
AE21



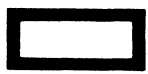
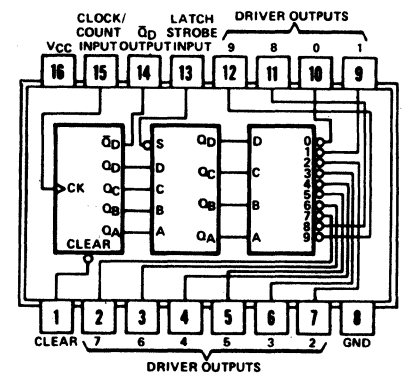
AE22



AE23



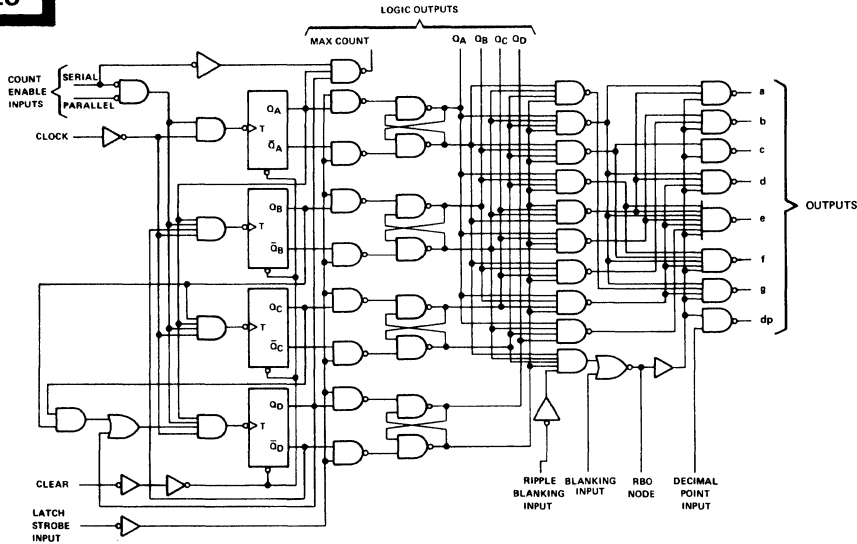
AE24



27. LOGIC/BLOCK DRAWINGS

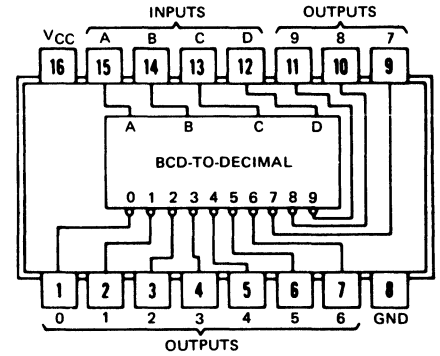
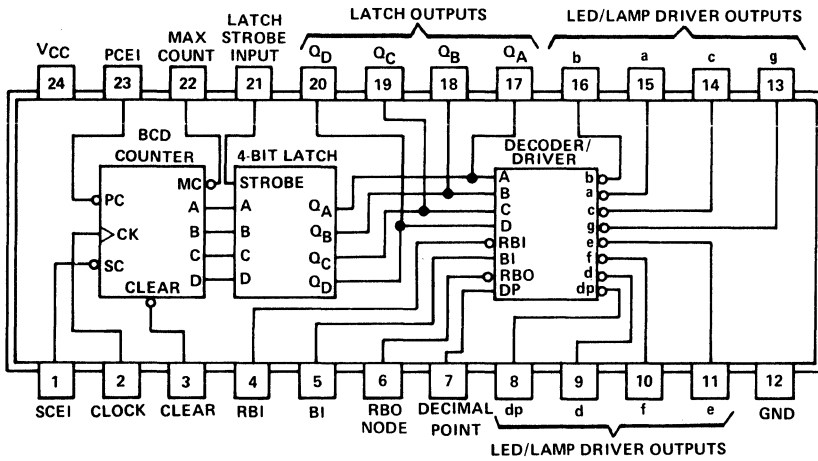
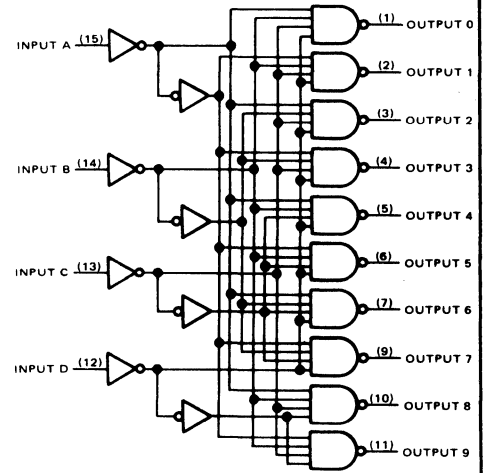
IN DRAWING NUMBER SEQUENCE

AE25

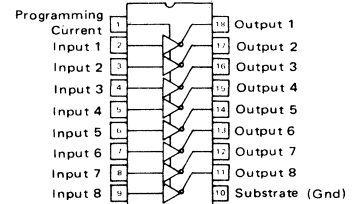
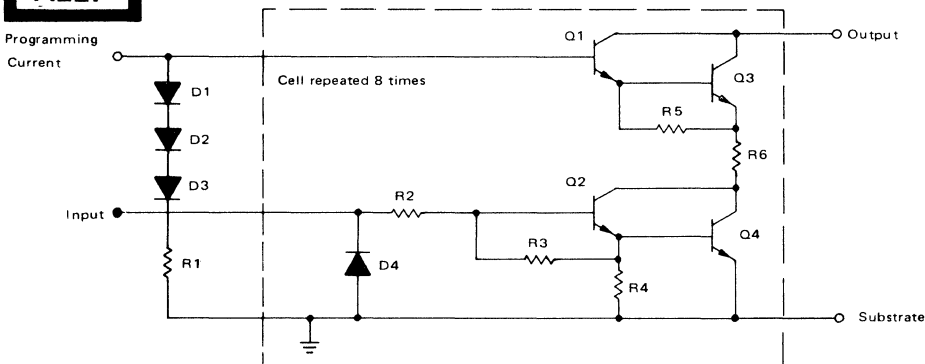


... Dynamic input activated by a transition from a high level to a low level.

AE26



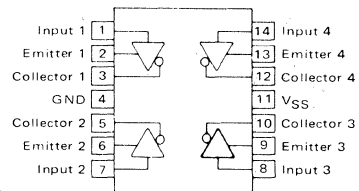
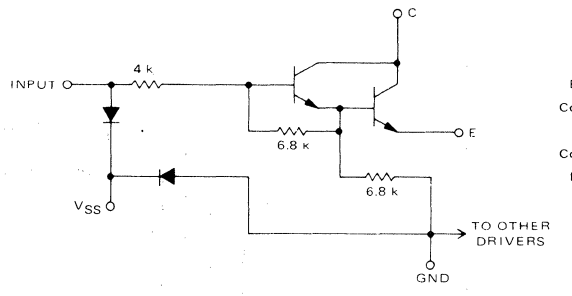
AE27



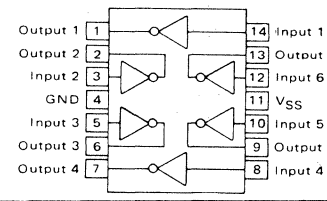
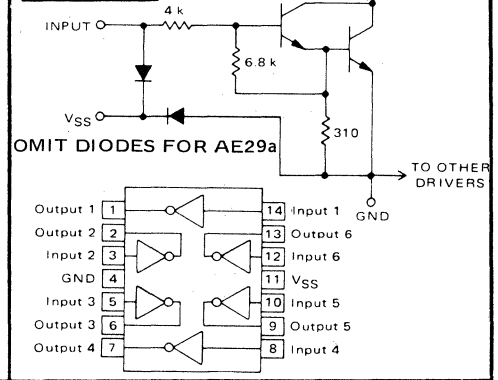
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

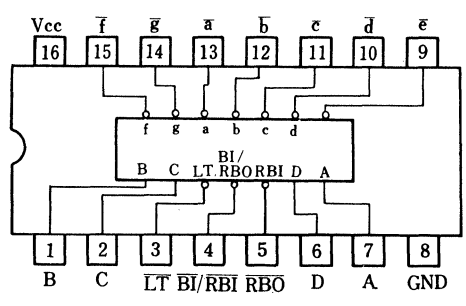
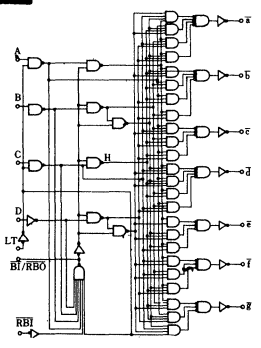
AE28



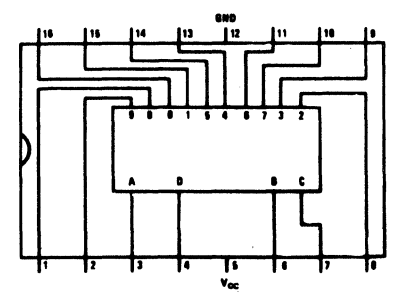
AE29



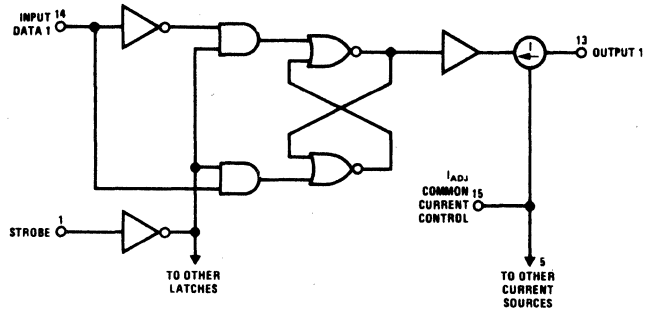
AE30



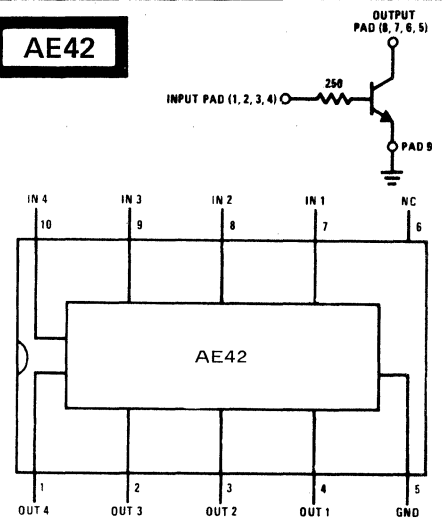
AE40



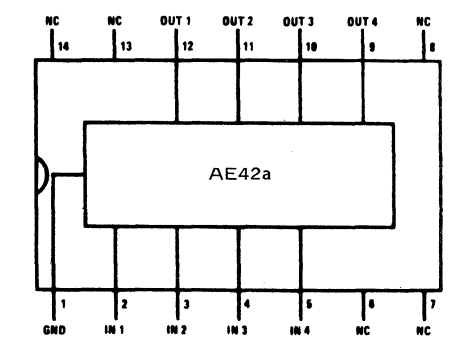
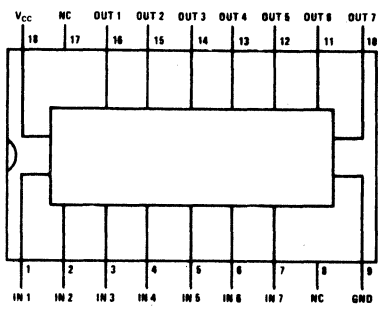
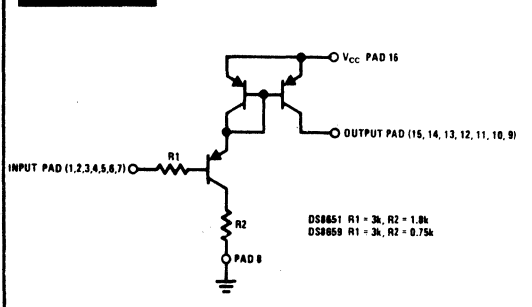
AE41



AE42



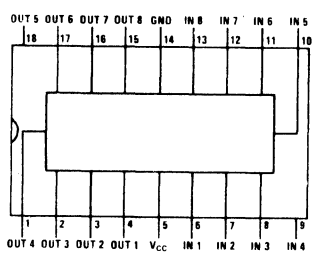
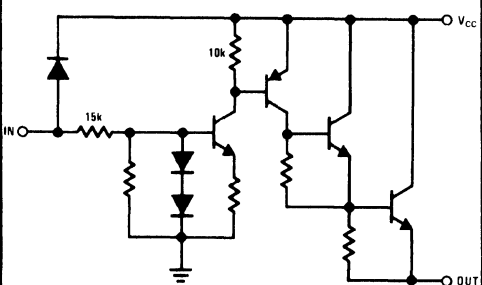
AE43



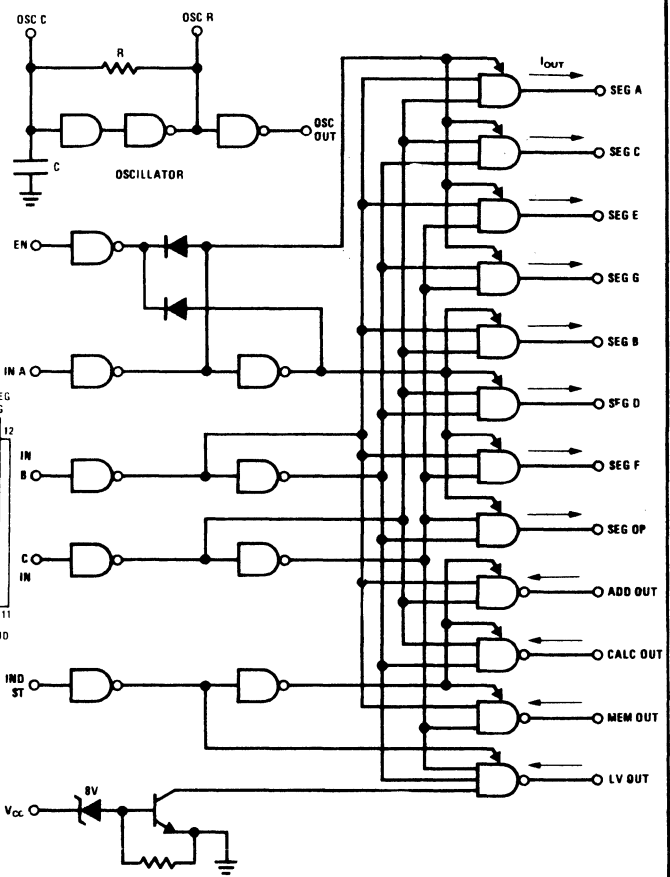
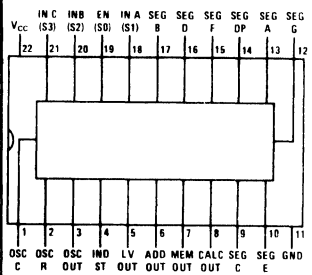
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

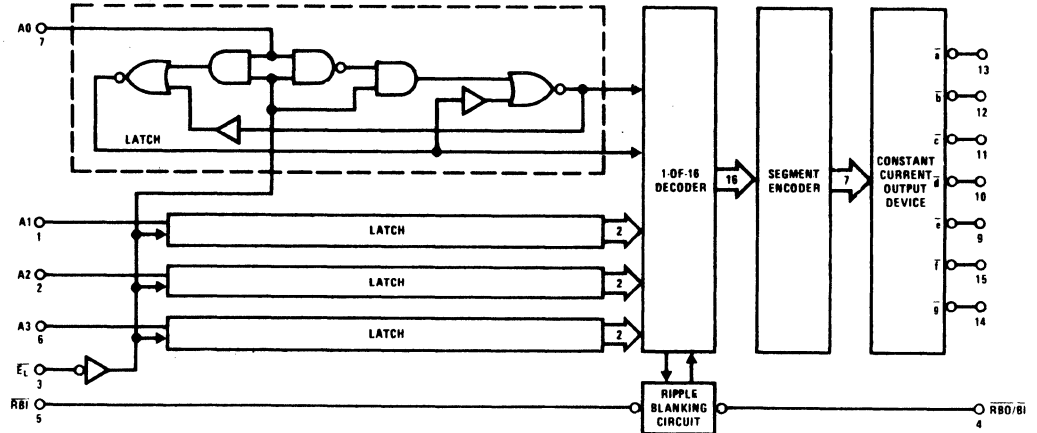
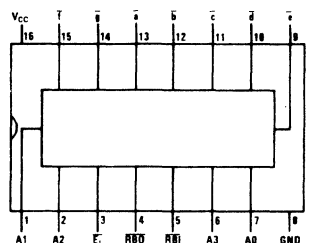
AE44



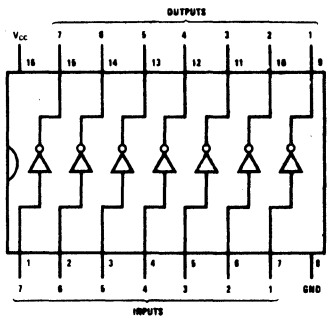
AE45



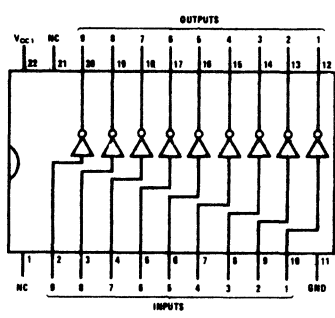
AE46



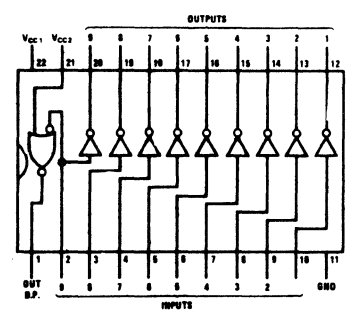
AE47



AE48



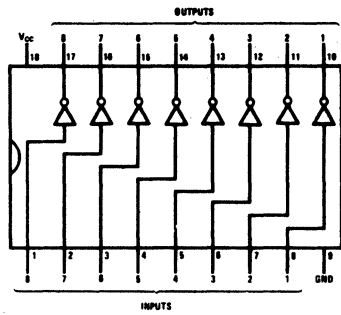
AE49



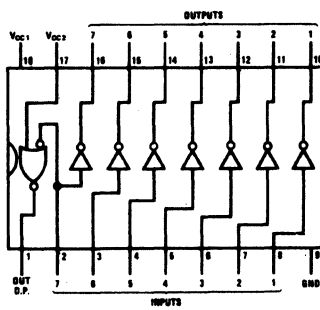
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

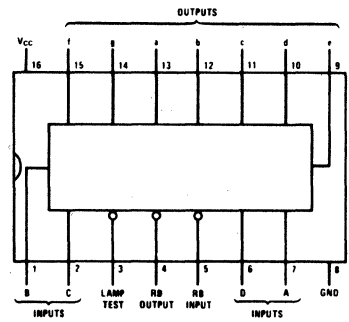
AE50



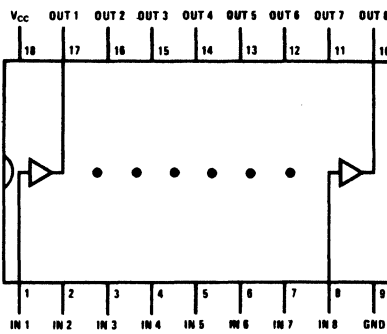
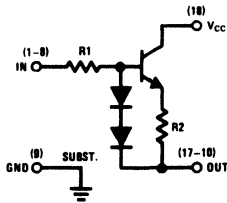
AE51



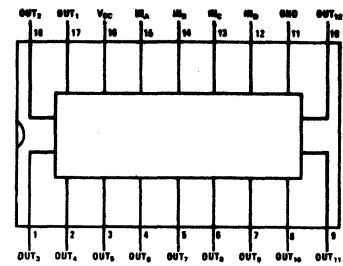
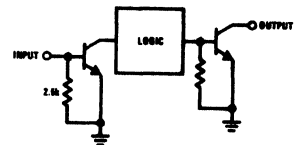
AE52



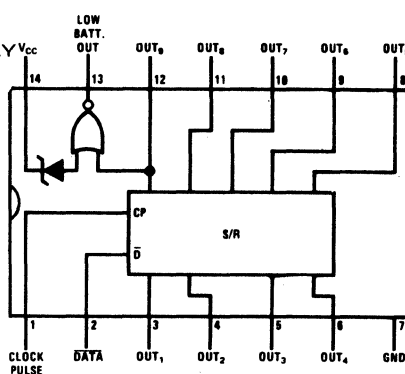
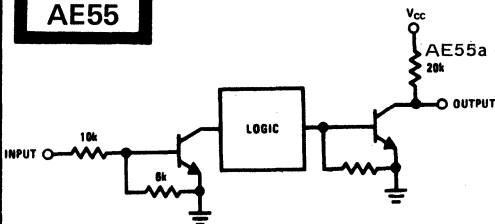
AE53



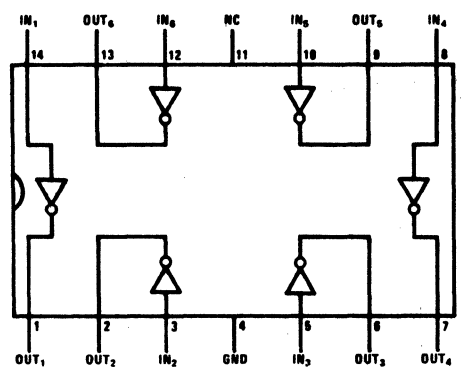
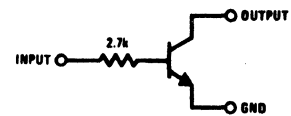
AE54



AE55



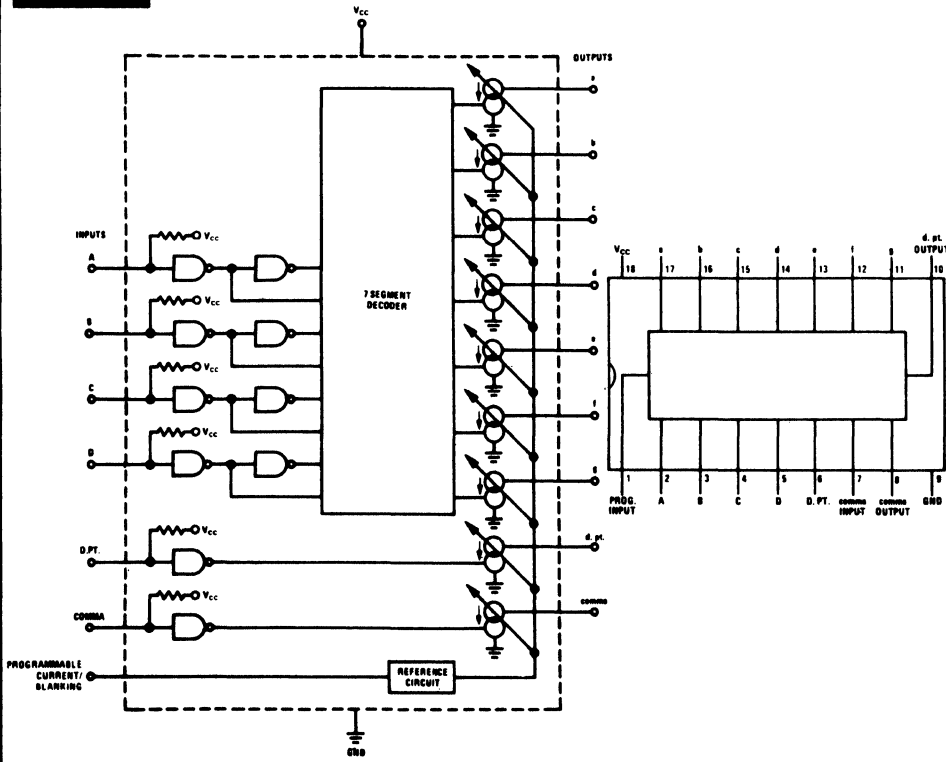
AE56



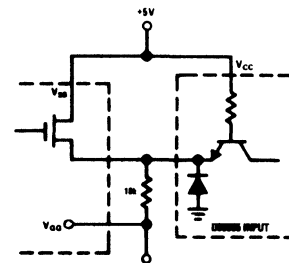
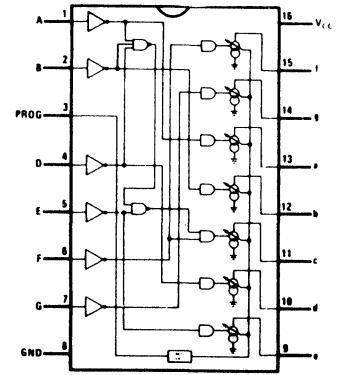
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

AE57

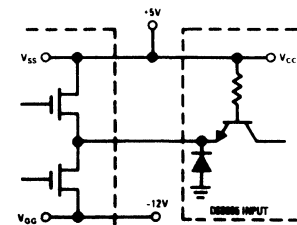
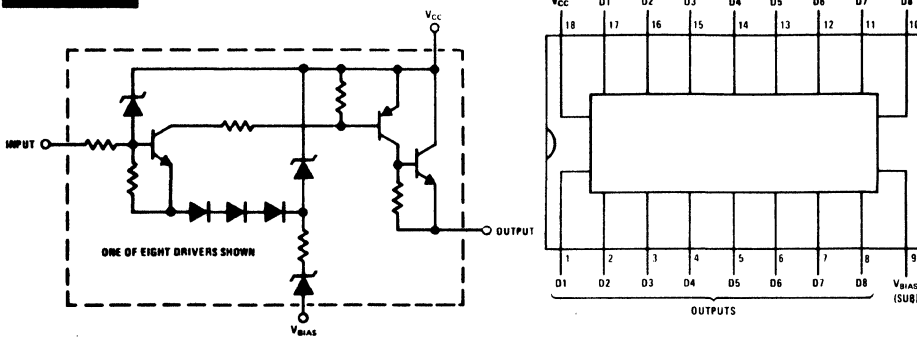


AE58



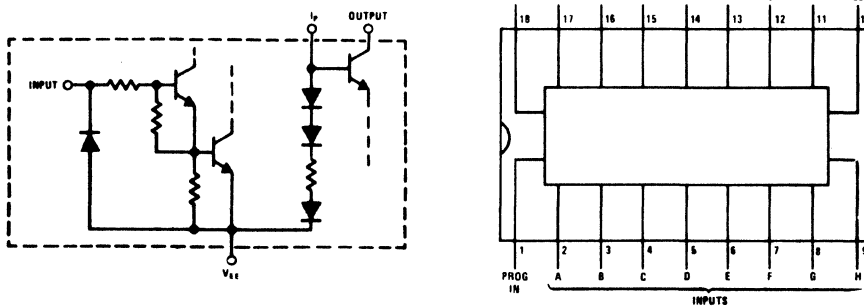
Open-Drain MOS Output

AE59



Push-Pull MOS Output

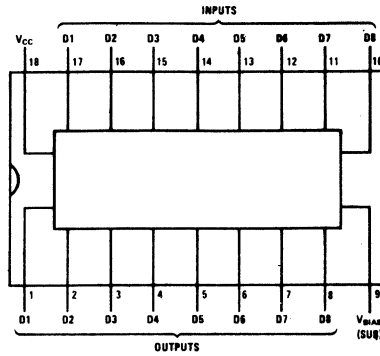
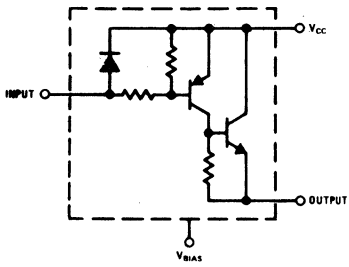
AE60



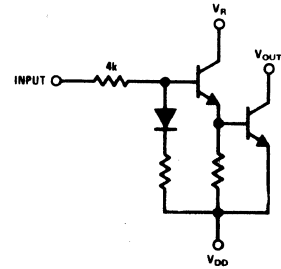
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

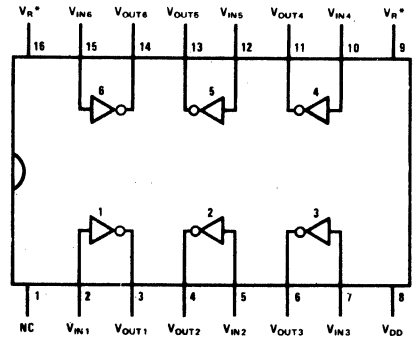
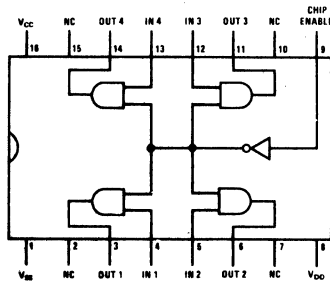
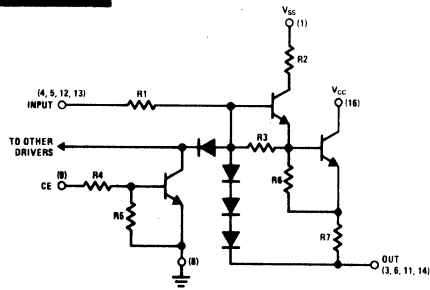
AE61



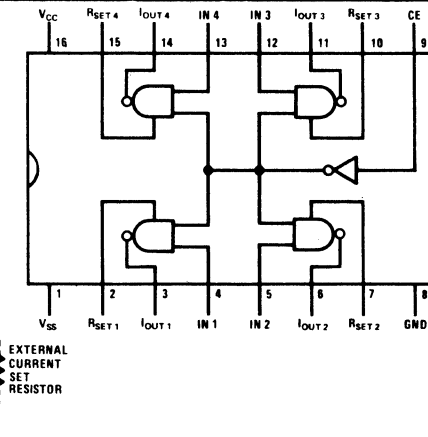
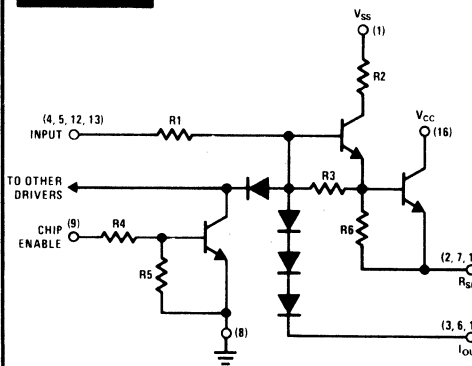
AE62



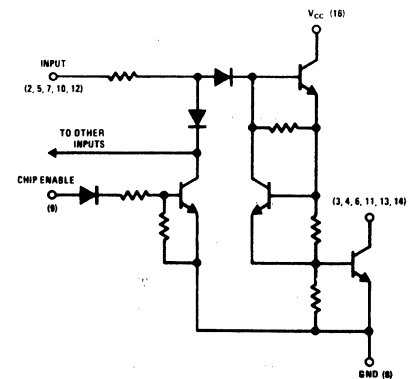
AE63



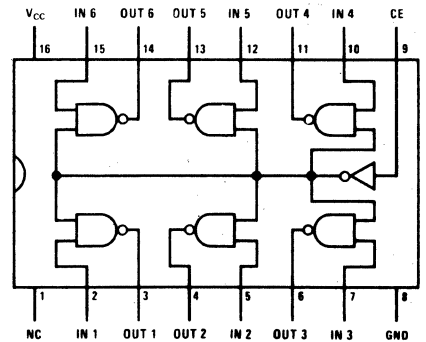
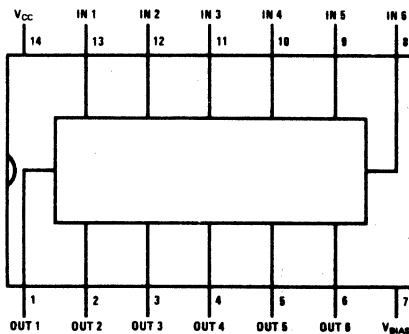
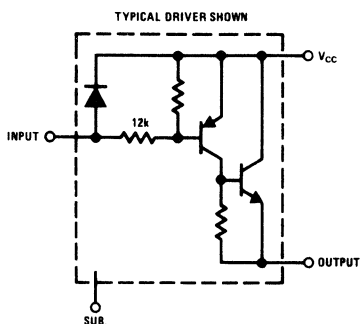
AE64



AE65



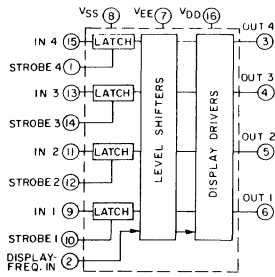
AE66



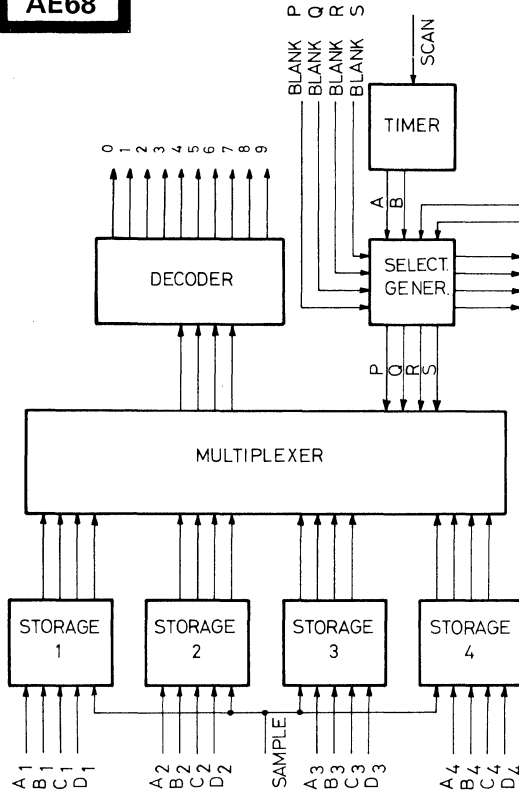
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

AE67



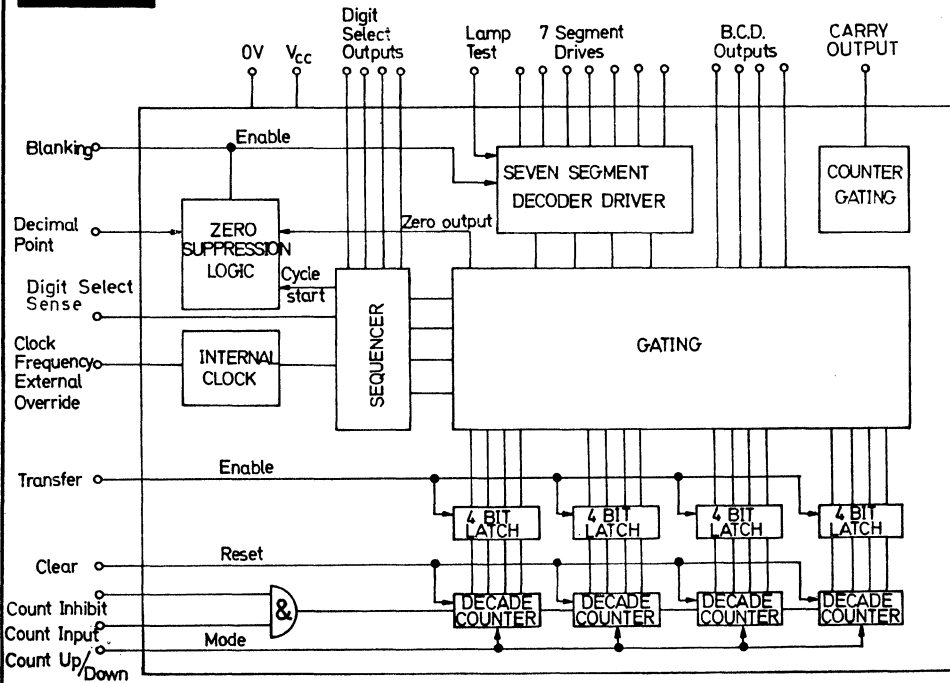
AE68



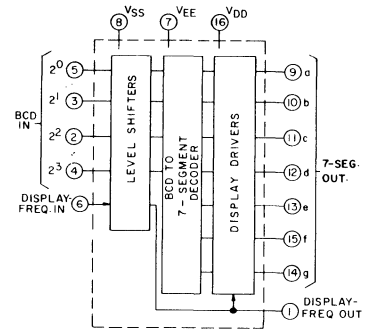
PIN CONNECTION

1	V _{SS}	21	B4
2	"9"	22	B3
3	"8"	23	B2
4	"7"	24	B1
5	"6"	25	A4
6	"5"	26	A3
7	"4"	27	A2
8	"3"	28	A1
9	"2"	29	V _{GG}
10	"1"	30	M
11	"0"	31	N
12	SAMPLE	32	P
13	D4	33	Q
14	D3	34	R
15	D2	35	S
16	D1	36	BLANK S
17	C4	37	BLANK R
18	C3	38	BLANK Q
19	C2	39	BLANK P
20	C1	40	SCAN

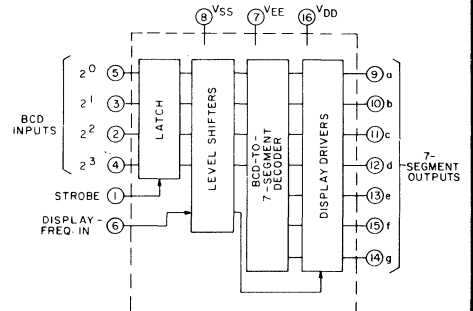
AE69



AE70



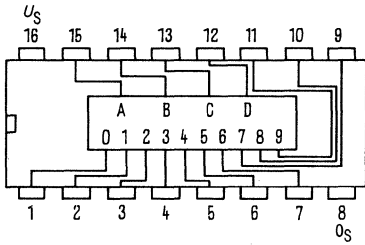
AE71



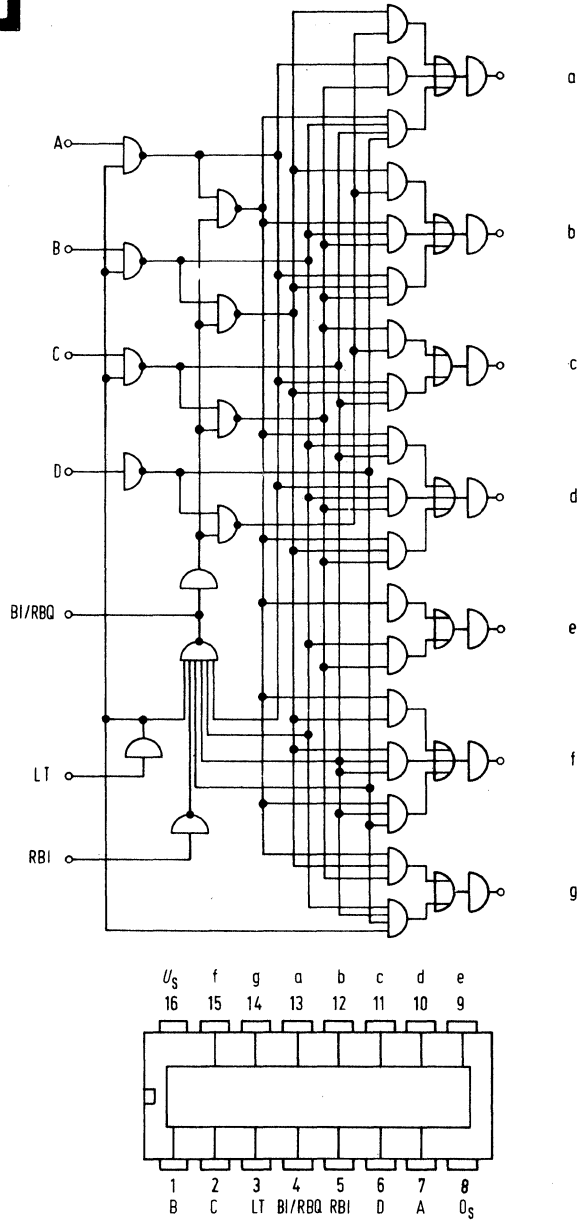
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

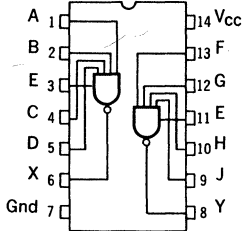
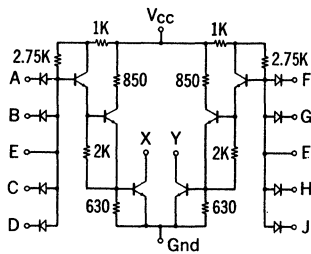
AE72



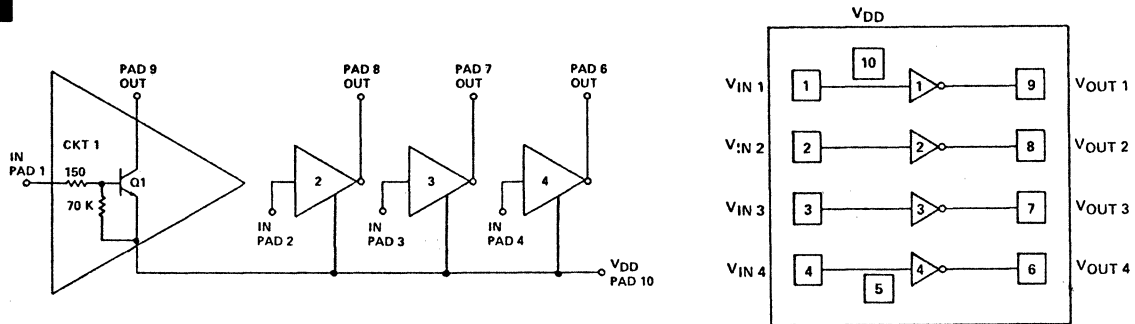
AE73



AE74



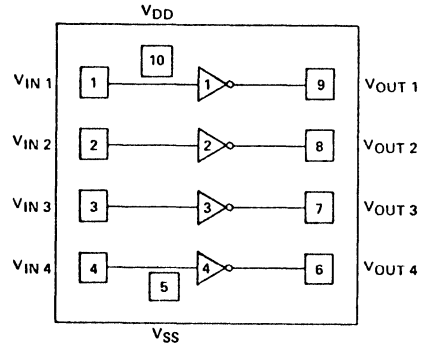
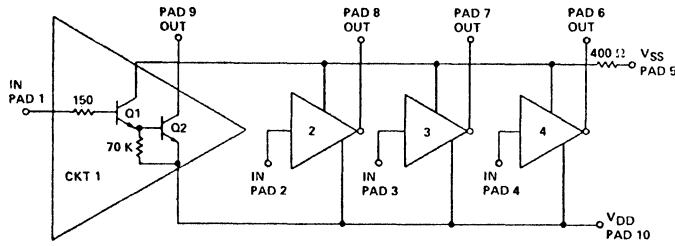
AE75



27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

AE76

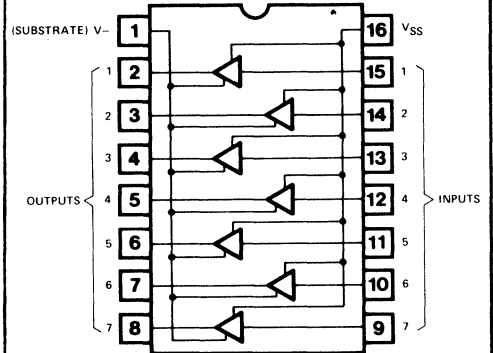


AE77

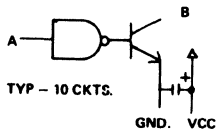
TERMI-NAL	AE77	AE77a	TERMI-NAL	AE77	AE77a
1	Not Used	K8	10	Not Used	Not Used
2	K6	K1	11	K5	K2
3	K7	K9	12	K4	K6
4	K8	K7	13	K3	K10
5	K9	K13	14	K2	K3
6	K1	K5	15	K0	K11
7	Not Used	K12	16	+12 Vdc	+12 Vdc
8	Not Used	K4	17	+200Vdc	+170 Vdc
9	Erase/Write	Erase/Write	—	—	—

K = Tube numeral AE77
Tube cathode AE77a

AE79



AE80

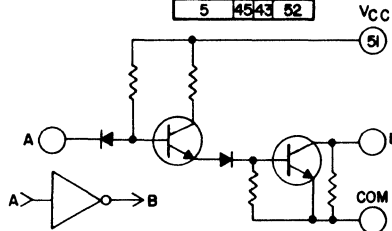


TYP - 10 CKTS.

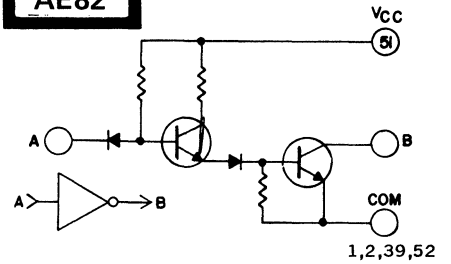
AE80	CKT	A	B	VCC	GND
	1	39	47		
	2	41	45		
	3	43	49		
	4	37	33	51	1, 5, 2
	5	35	29		
	6	17	23		
	7	19	25		
	8	15	3		
	9	13	9		
	10	11	5		

AE81

CKT NO.	A	B	COM
1	11	7	1
2	19	15	2
3	29	25	39
4	37	33	49
5	45	43	52

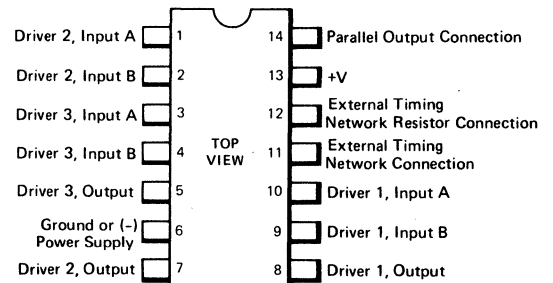
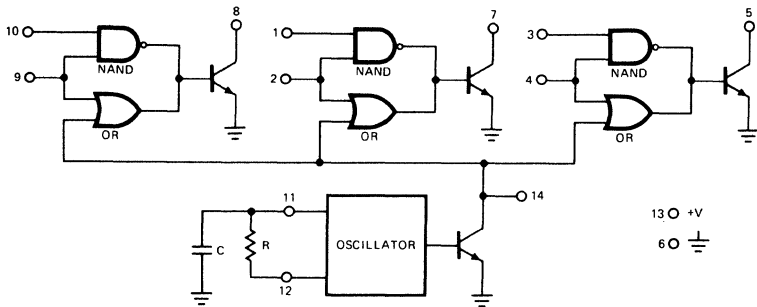


AE82



CKT. NO.	A	B
1	11	7
2	19	15
3	29	25
4	37	33
5	45	43

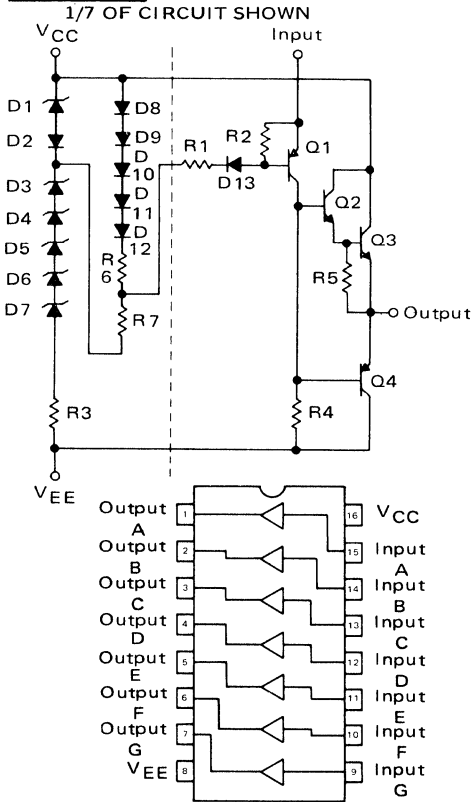
AE83



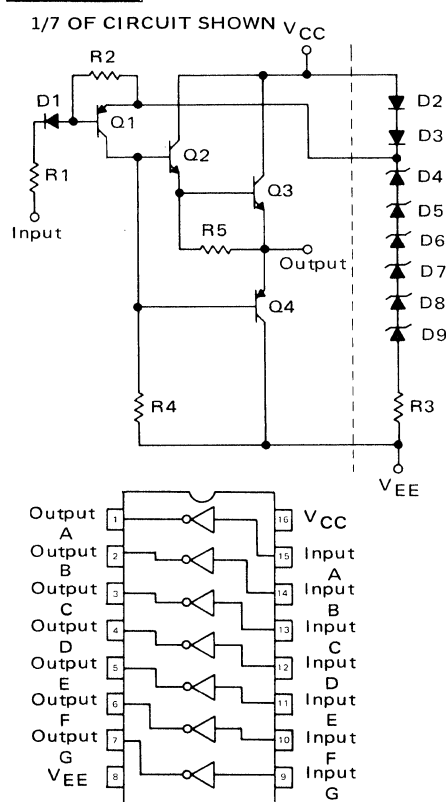
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

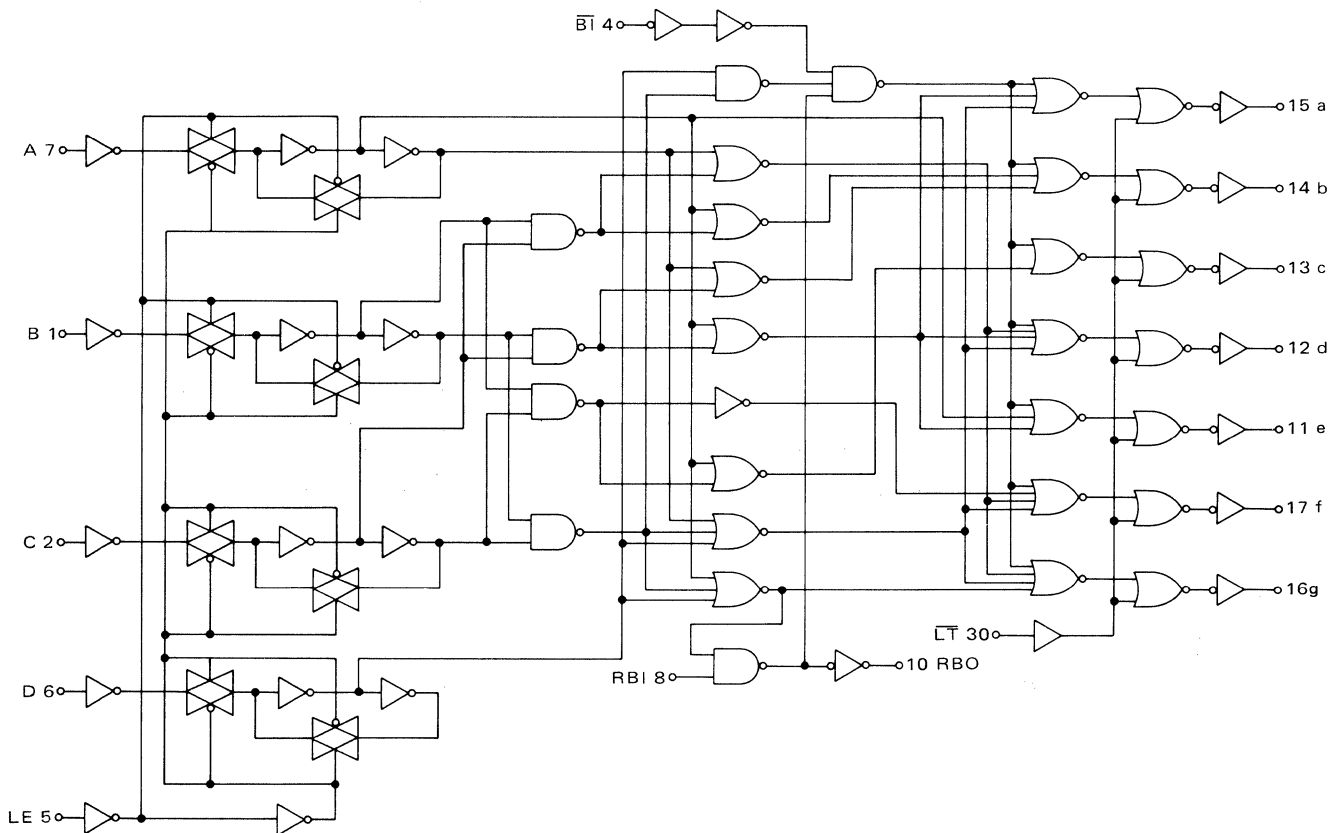
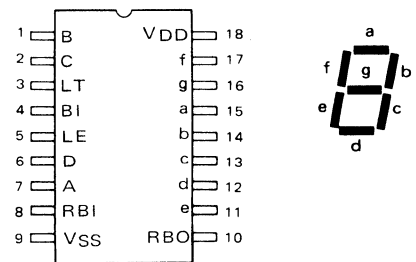
AE87



AE88



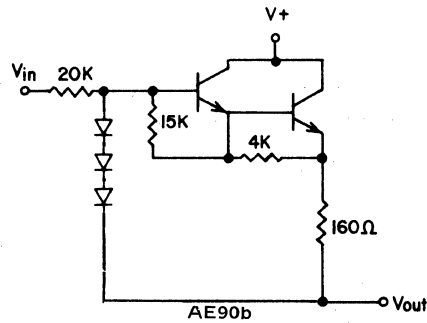
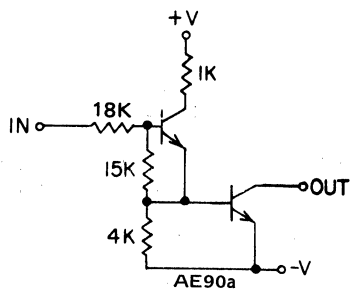
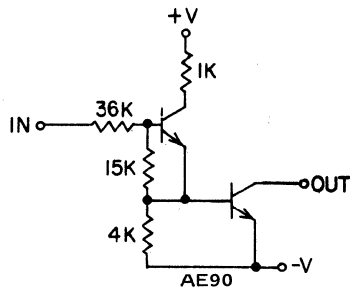
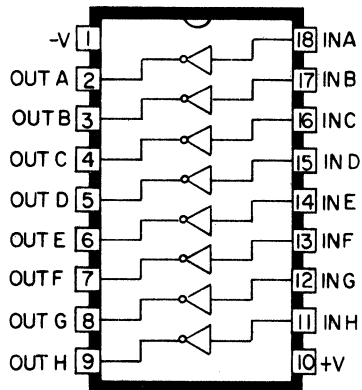
AE89



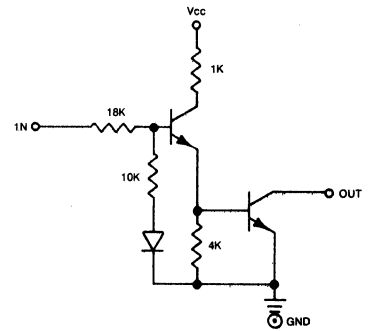
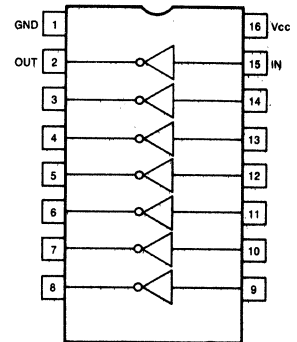
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

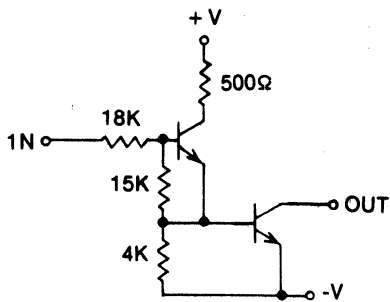
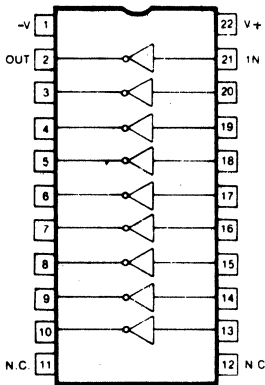
AE90



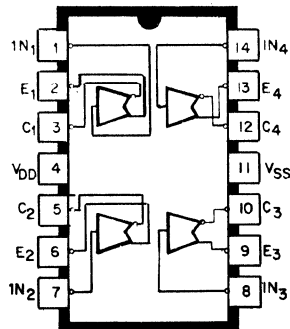
AE91



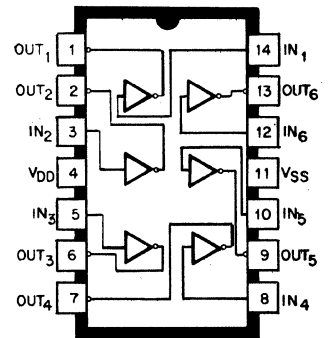
AE92



AE93



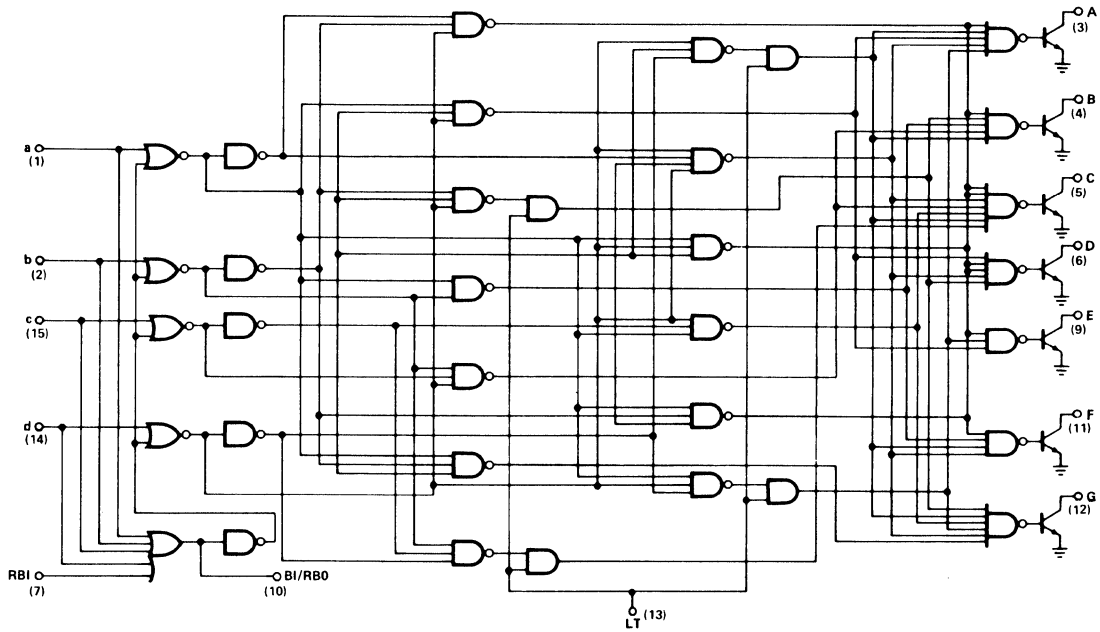
AE94



27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

AE95



AE95: OUTPUT TRANSISTOR DRIVER IS NAND GATE

AE95a: OUTPUT TRANSISTOR DRIVER IS AND GATE

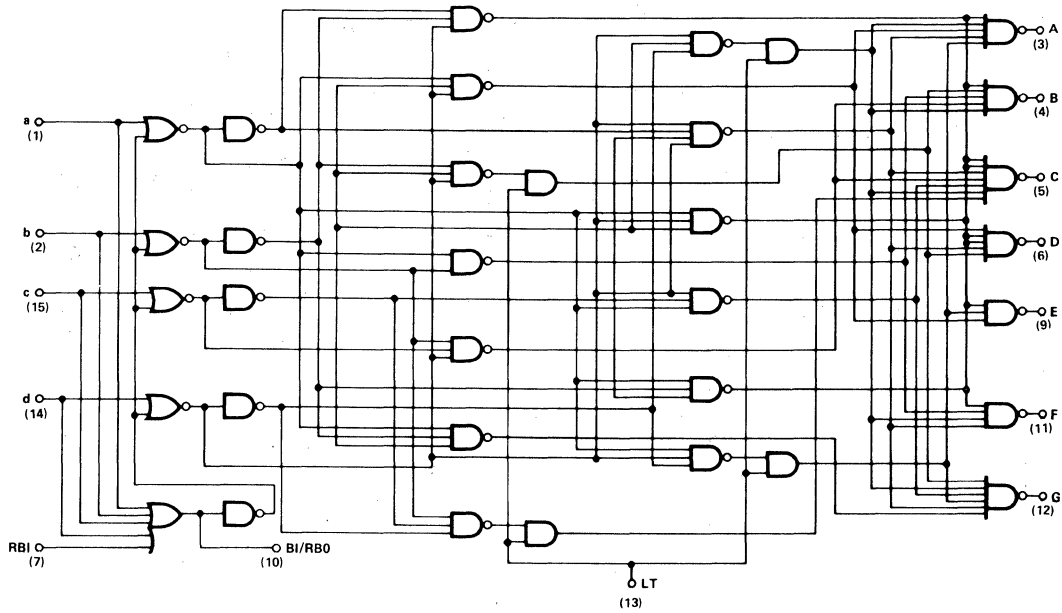
V_{CC} = (16)
 GND = (8)
 () = Denotes Pin Numbers

<div style="border: 2px solid black; width: 80px; height: 25px; margin: 5px;"></div>	<div style="border: 2px solid black; width: 80px; height: 25px; margin: 5px;"></div>	<div style="border: 2px solid black; width: 80px; height: 25px; margin: 5px;"></div>
<div style="border: 2px solid black; width: 80px; height: 25px; margin: 5px;"></div>	<div style="border: 2px solid black; width: 80px; height: 25px; margin: 5px;"></div>	<div style="border: 2px solid black; width: 80px; height: 25px; margin: 5px;"></div>

27. LOGIC/BLOCK DRAWINGS

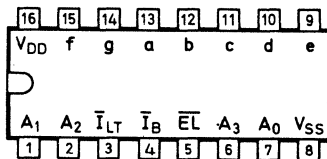
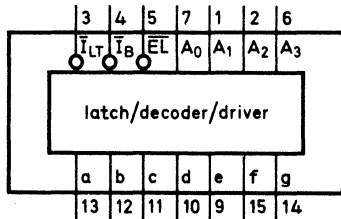
IN DRAWING NUMBER
SEQUENCE

AE96



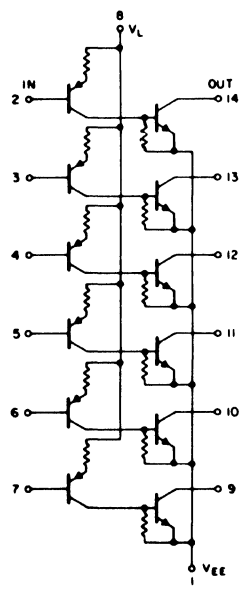
VCC = (16)
GND = (8)
() = Denotes Pin Numbers

AE97

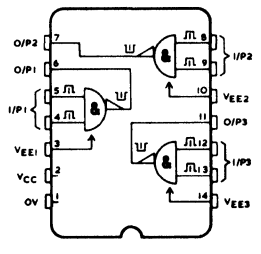


27. LOGIC/BLOCK DRAWINGS IN DRAWING NUMBER SEQUENCE

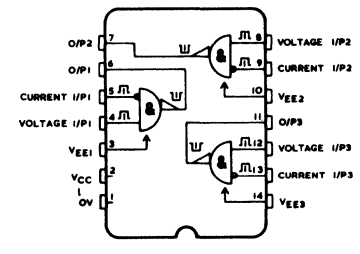
AF1



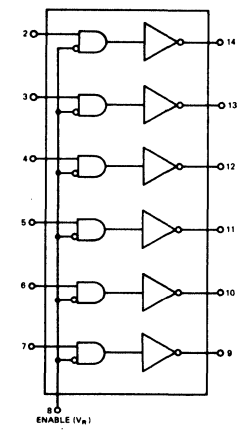
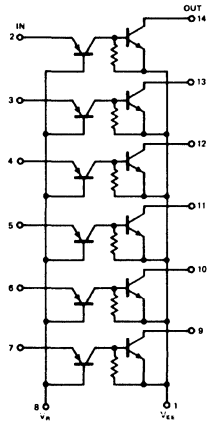
AF4



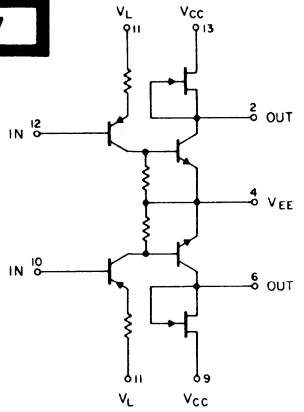
AF5



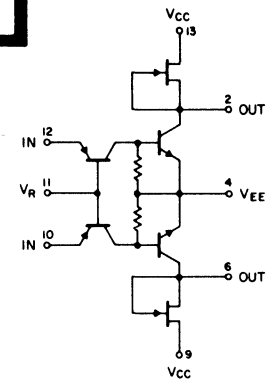
AF6



AF7



AF8



[Empty box]

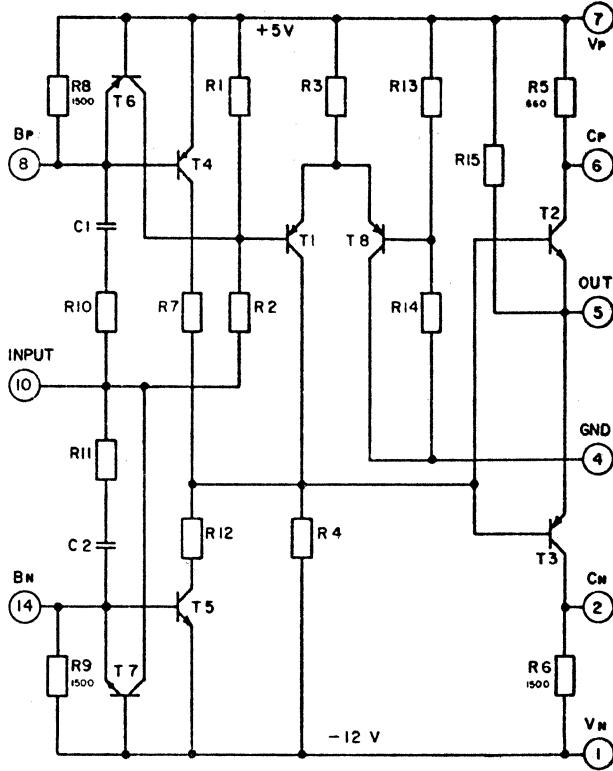
[Empty box]

[Empty box]

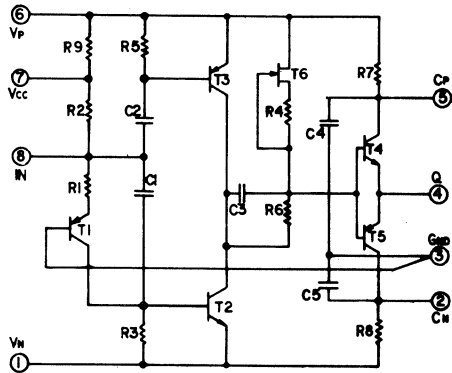
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

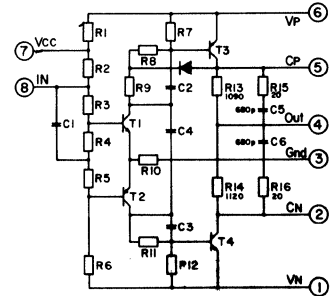
AF9



AF10



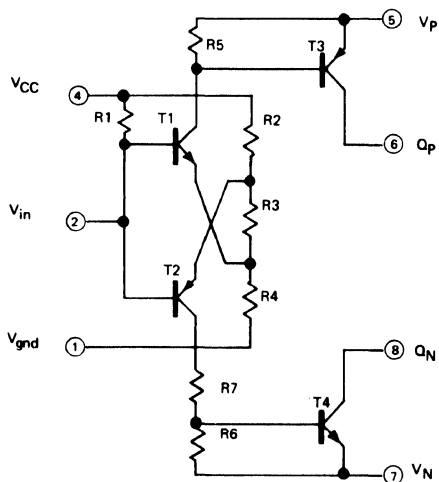
AF11



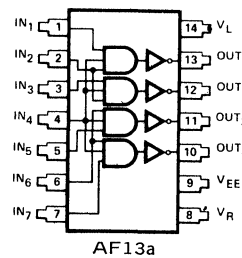
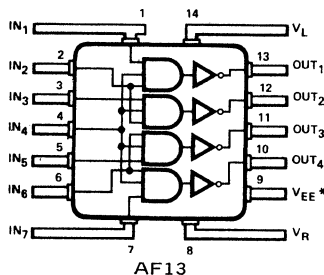
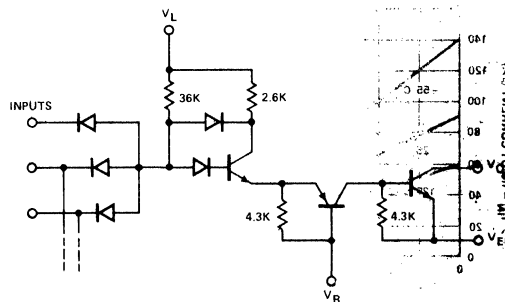
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

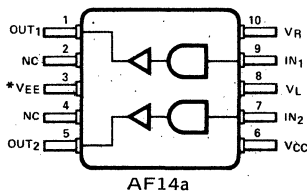
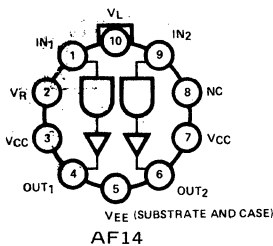
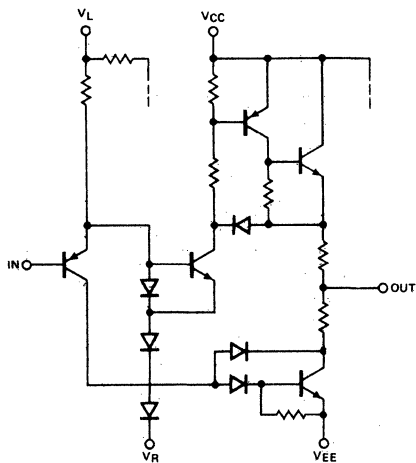
AF12



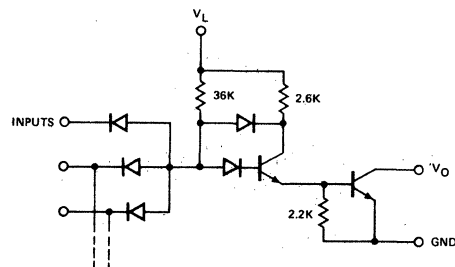
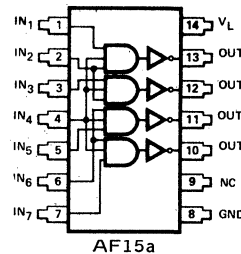
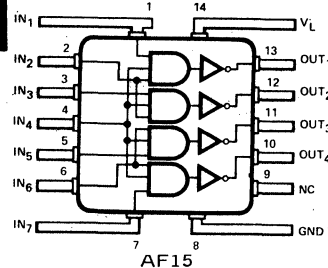
AF13



AF14



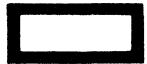
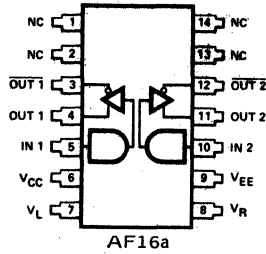
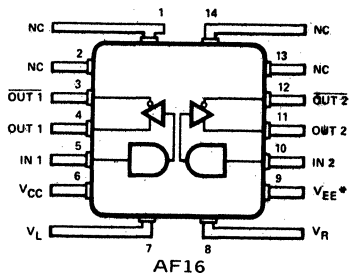
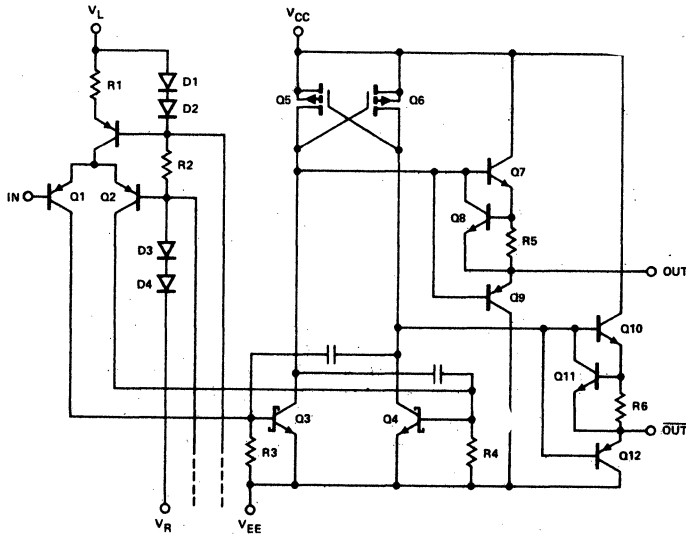
AF15



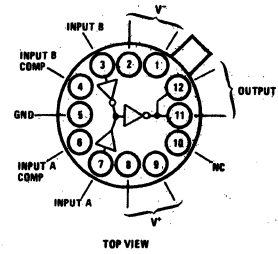
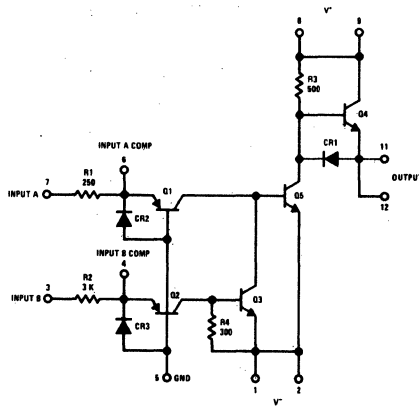
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

AF16

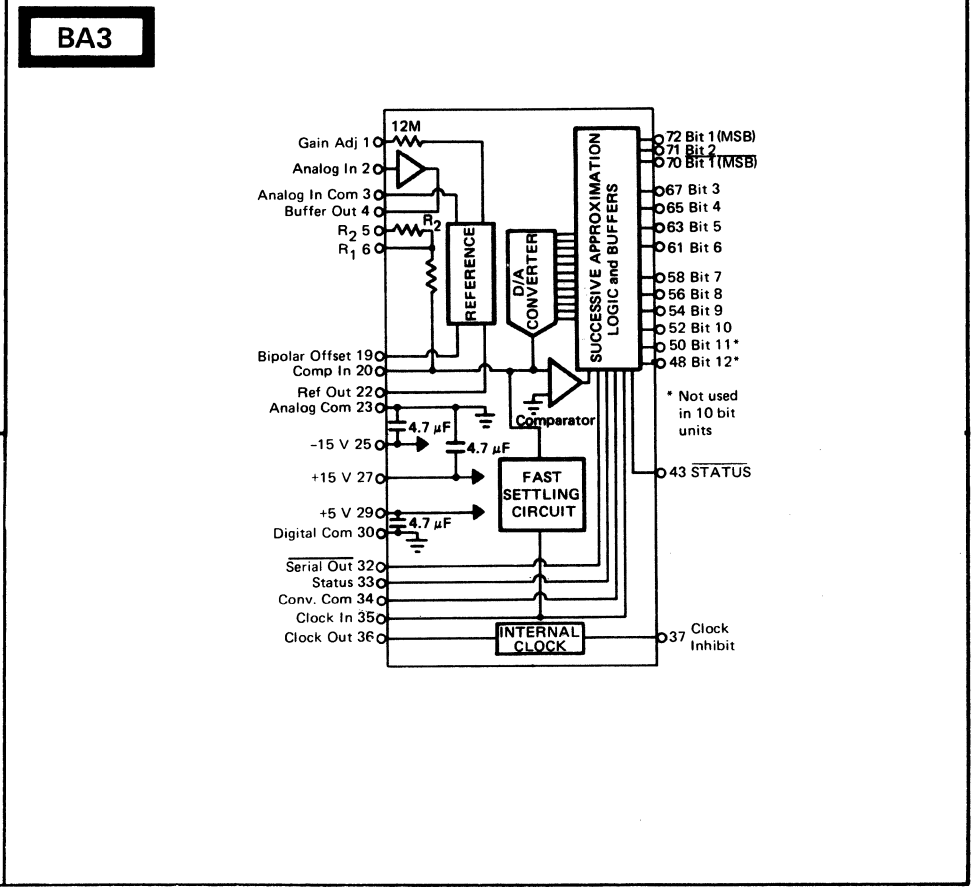
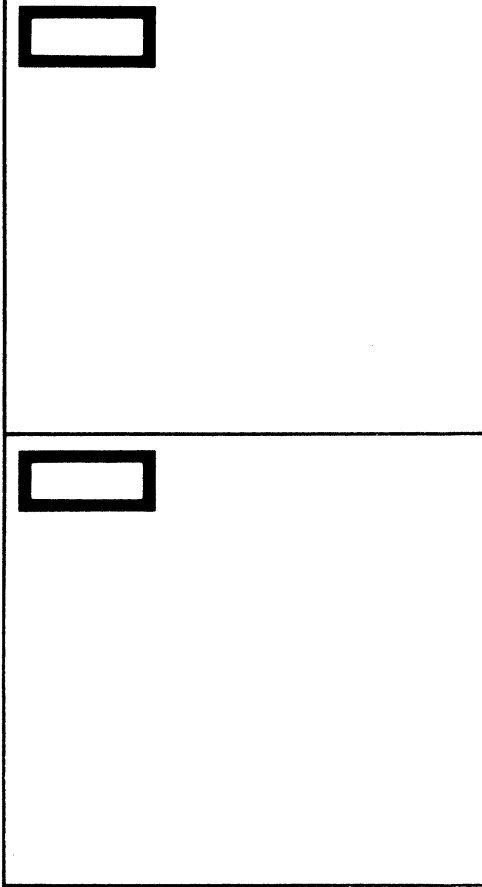
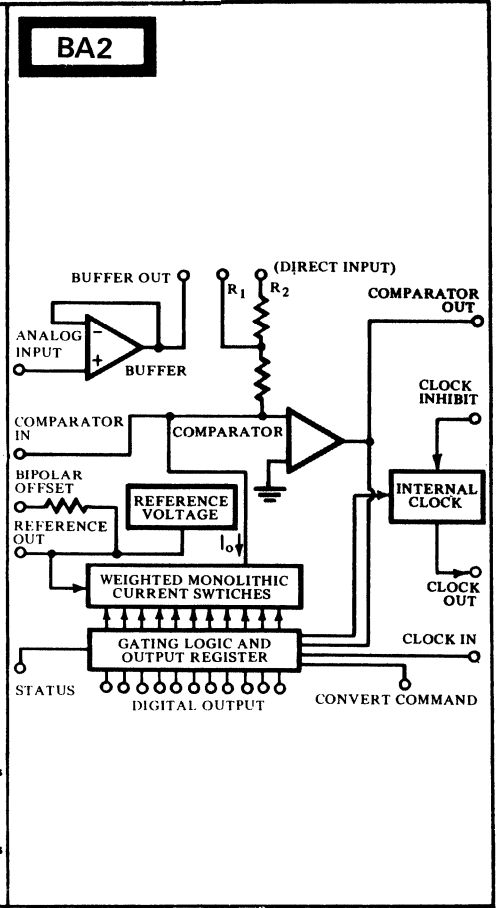
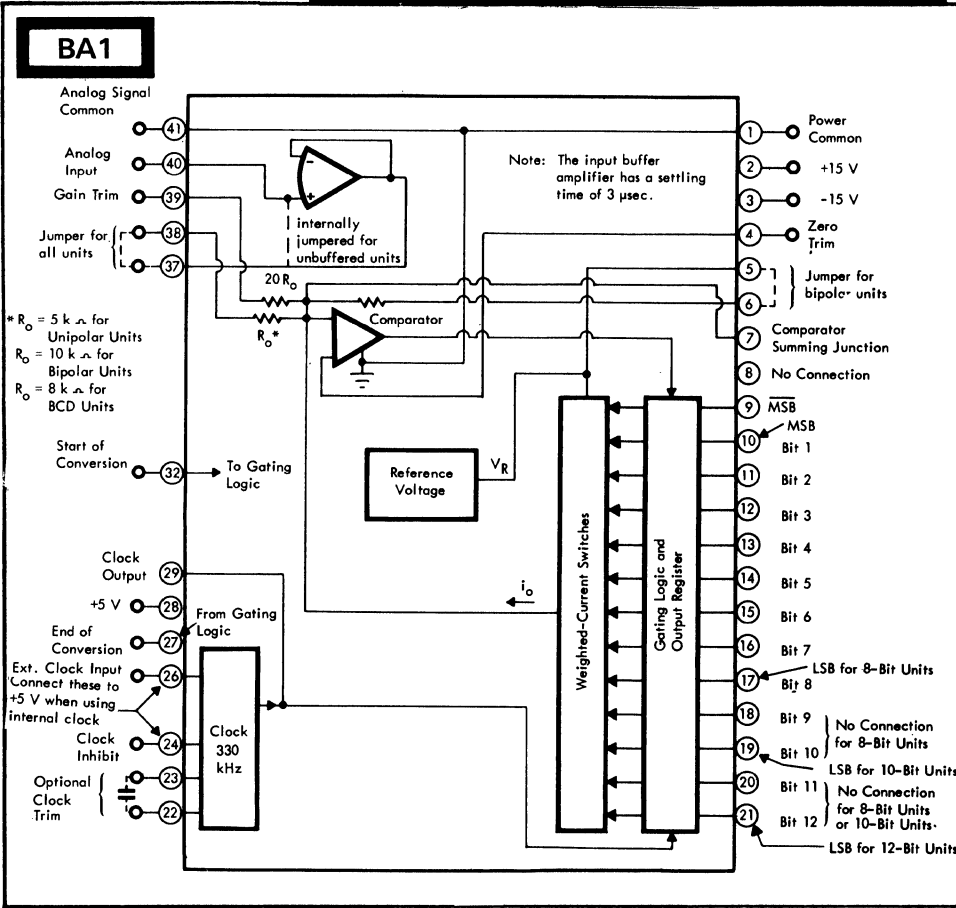


AF17



27. LOGIC/BLOCK DRAWINGS

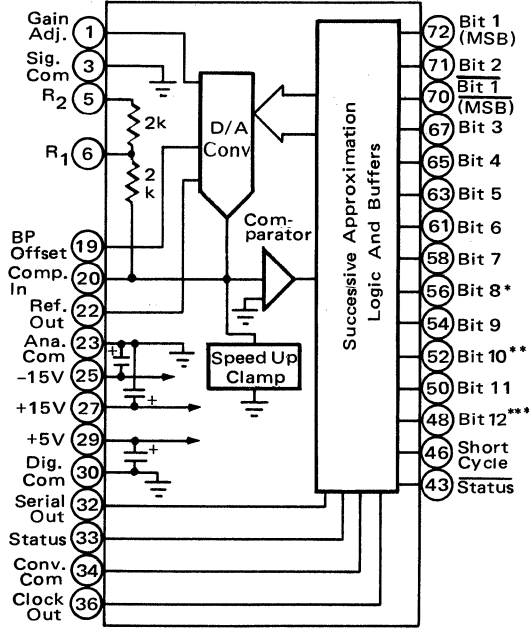
IN DRAWING NUMBER SEQUENCE



27. LOGIC/BLOCK DRAWINGS

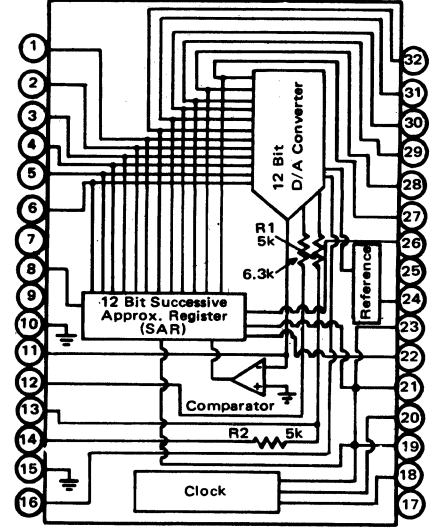
IN DRAWING NUMBER SEQUENCE

BA4



* LSB FOR BA4
 ** LSB FOR BA4a
 *** LSB FOR BA4b

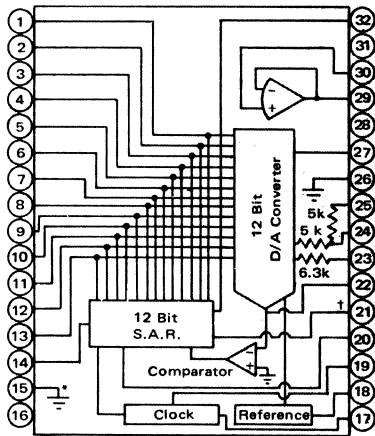
BA5



PIN CONNECTIONS

- | | |
|--------------------|--------------------------|
| 1. Bit 6 | 32. Bit 7 |
| 2. Bit 5 | 31. Bit 8 |
| 3. Bit 4 | 30. Bit 9 |
| 4. Bit 3 | 29. Bit 10 (LSB-10 Bits) |
| 5. Bit 2 | 28. Bit 11 |
| 6. Bit 1 (MSB) | 27. Bit 12 (LSB-12 Bits) |
| 7. +5V Analog | 26. Serial out |
| 8. Bit 1 (MSB) | 25. -15V |
| 9. +5V Digital | 24. Ref. out (+6.2V) |
| 10. Digital Common | 23. Clock out |
| 11. Comparator IN | 22. Status |
| 12. Bipolar Offset | 21. Short Cycle |
| 13. R1 10V Range | 20. Clock Inhibit |
| 14. R2 20V Range | 19. External Clock |
| 15. Analog Common | 18. Convert Command |
| 16. Gain Adjust | 17. +15V |

BA6

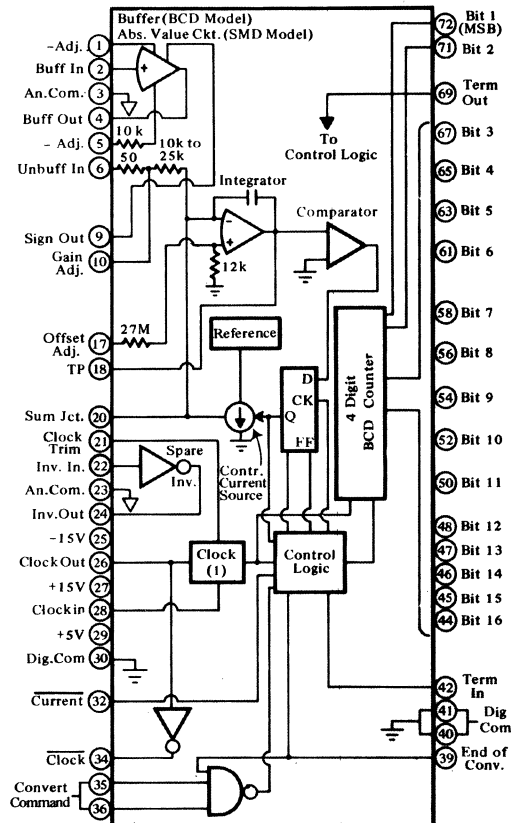


PIN CONNECTIONS

- | | |
|-----------------------------|------------------------|
| 1. Bit 12 (LSB for 12 bits) | 32. Serial Out |
| 2. Bit 11 (LSB for 10 bits) | 31. -15V |
| 3. Bit 10 (LSB for 10 bits) | 30. Buffer In |
| 4. Bit 9 | 29. Buffer Out |
| 5. Bit 8 | 28. +15V |
| 6. Bit 7 | 27. Gain Adjust |
| 7. Bit 6 | 26. Analog Common |
| 8. Bit 5 | 25. R2 20V Range |
| 9. Bit 4 | 24. R1 10V Range |
| 10. Bit 3 | 23. Bipolar Offset |
| 11. Bit 2 | 22. Comparator In |
| 12. Bit 1 (MSB) | 21. Convert Command† |
| 13. Bit 1 (MSB) | 20. Status |
| 14. Short Cycle | 19. Clock Out |
| 15. Dig Common* | 18. Ref. Out (+6.2V) |
| 16. +5V | 17. Clock Rate Control |

* Digital Common is internally connected to case.
 † If an external clock is used, connect the clock to Pin 21 (conv. command).

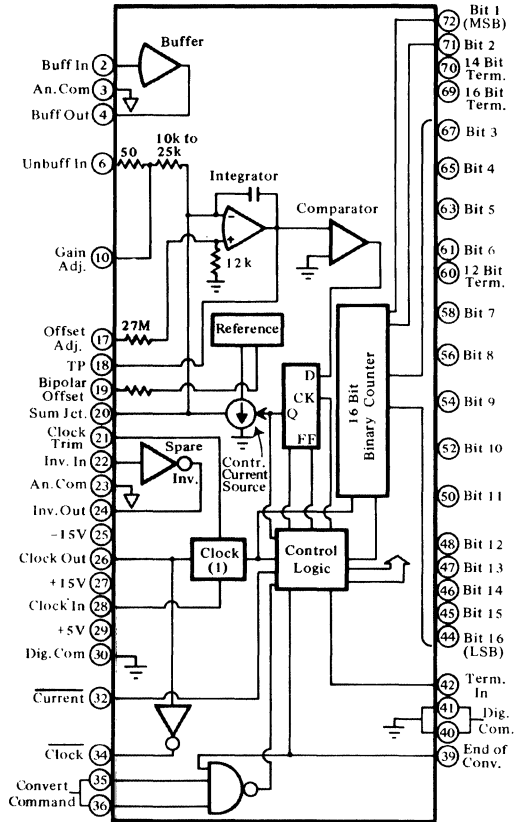
BA7



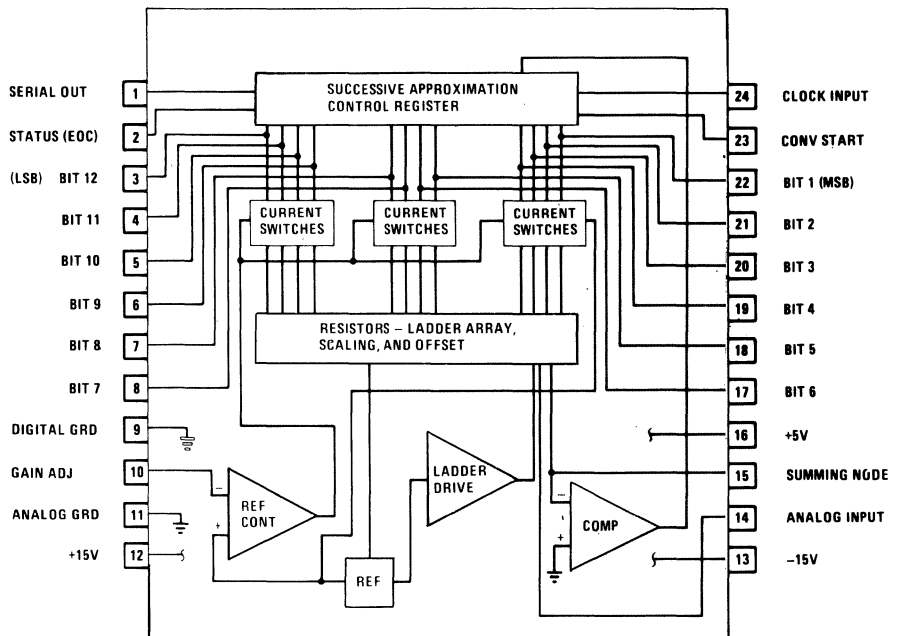
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

BA8



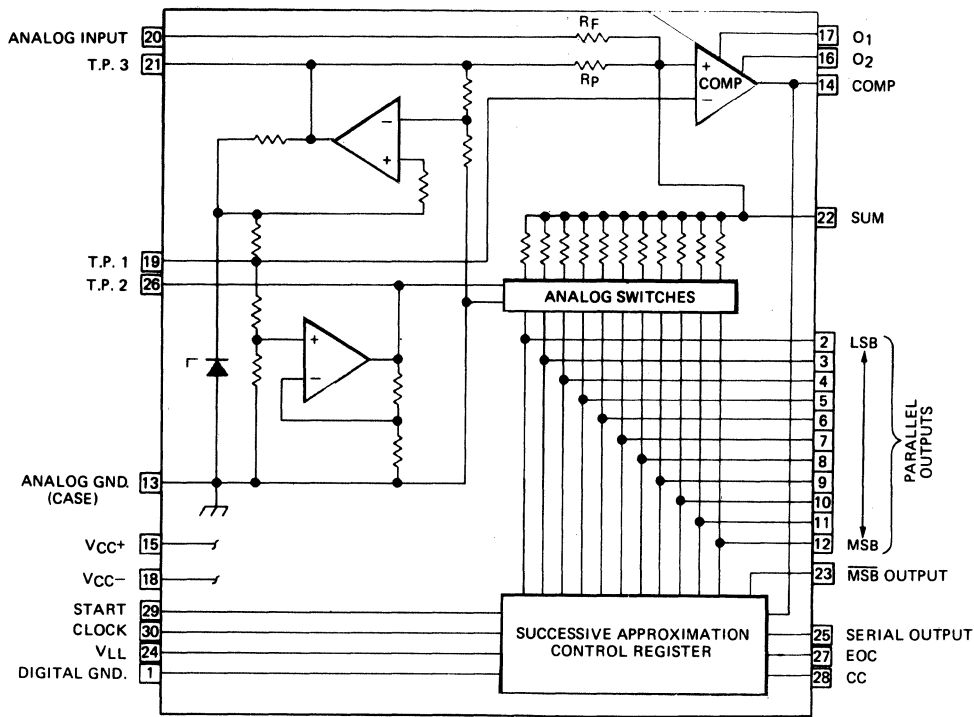
BA9



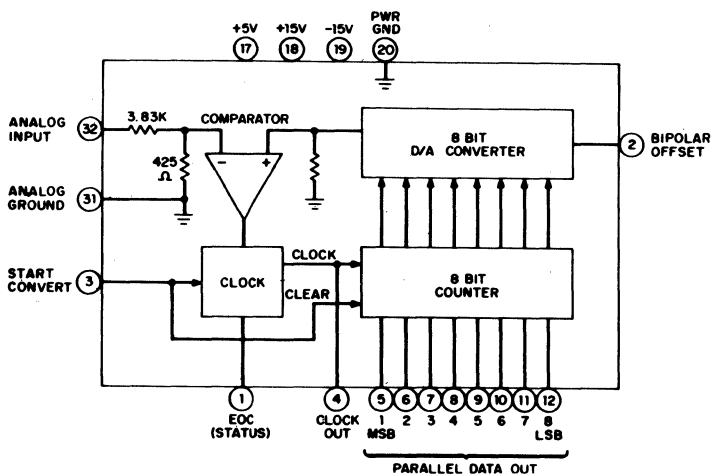
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

BA10



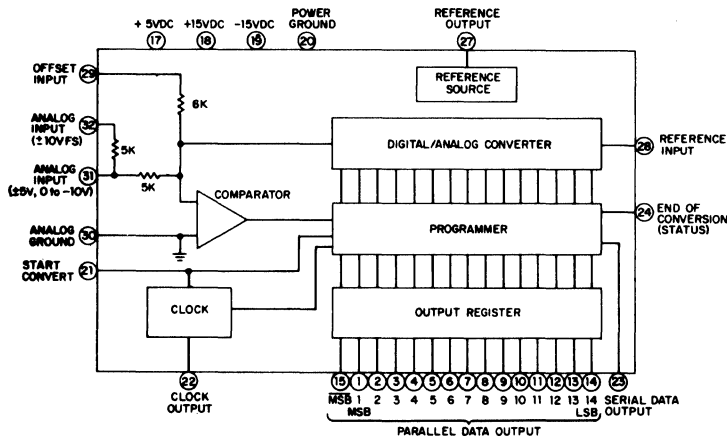
BA11



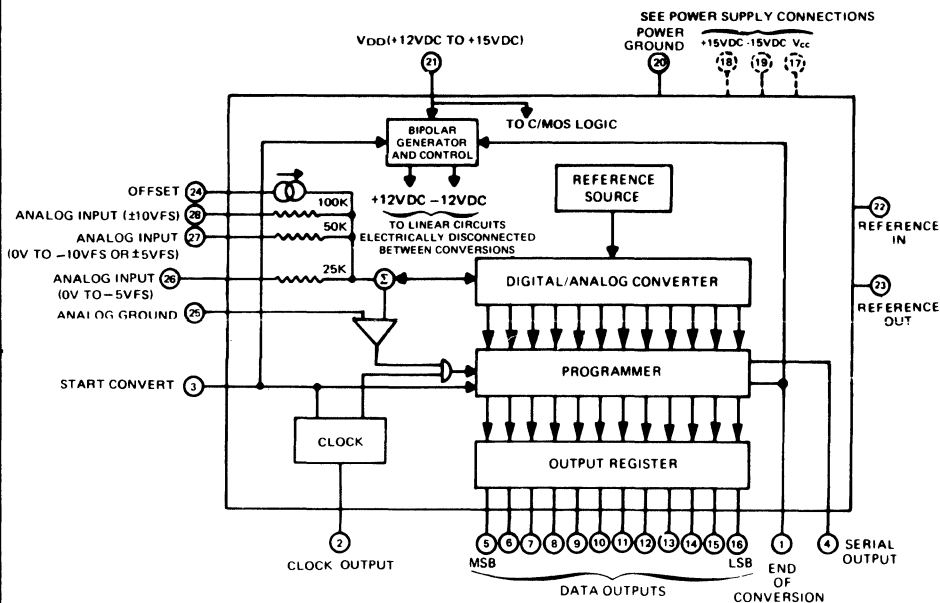
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

BA12

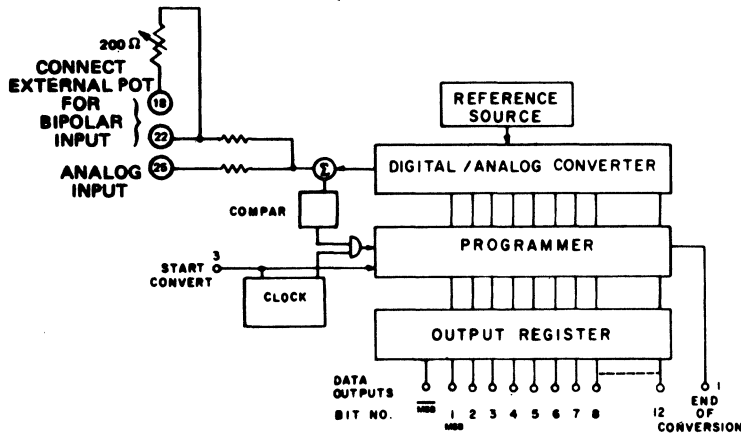


BA13

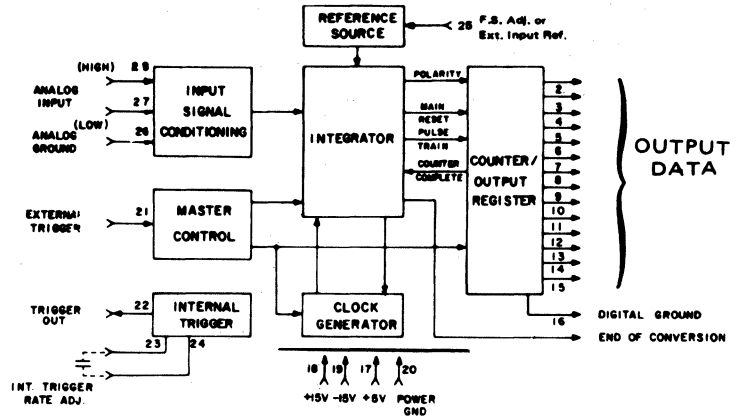


BA14

PIN	FUNCTION	PIN	FUNCTION
1	E.O.C. (STATUS)	17	+ 5VDC POWER IN
2	MSB OUTPUT	18	+15VDC POWER IN
3	START CONVERT	19	-15VDC POWER IN
4	SERIAL OUTPUT	20	POWER GROUND
5	BIT 1 OUT (MSB)	21	OFFSET (NOTE 1)
6	BIT 2 OUT	22	OFFSET (NOTE 2)
7	BIT 3 OUT	23	GAIN ADJUST
8	BIT 4 OUT	24	ANALOG GND
9	BIT 5 OUT	25	ANALOG INPUT
10	BIT 6 OUT		
11	BIT 7 OUT		
12	BIT 8 OUT		
13	BIT 9 OUT		
14	BIT 10 OUT		
15	BIT 11 OUT		
16	BIT 12 OUT (LSB)		



BA15



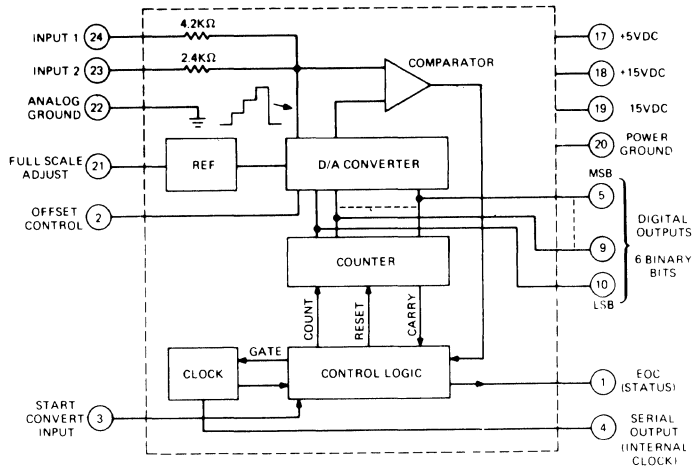
PIN	BA15	BA15a	BA15b	BA15c	BA15d	FUNCTION
1	X	X	X	X	X	END OF CONVERSION
2	X	X	X	X	X	SIGN OUTPUT
3	1000	100	BIT 1	BIT 1	BIT 1	OUTPUT
4	800	NC	NC	BIT 2	NC	OUTPUT
5	400	NC	NC	BIT 3	NC	OUTPUT
6	200	NC	BIT 2	BIT 4	BIT 2	OUTPUT
7	100	NC	BIT 3	BIT 5	BIT 3	OUTPUT
8	80	80	BIT 4	NC	NC	OUTPUT
9	40	40	BIT 5	NC	NC	OUTPUT
10	20	20	BIT 6	NC	NC	OUTPUT
11	10	10	BIT 7	NC	NC	OUTPUT
12	8	8	BIT 8	BIT 6	BIT 4	OUTPUT
13	4	4	BIT 9	BIT 7	BIT 5	OUTPUT
14	2	2	BIT 10	BIT 8	BIT 6	OUTPUT
15	1	1	BIT 11	BIT 9	BIT 7	OUTPUT
16	X	X	X	X	X	DIGITAL GROUND
17	X	X	X	X	X	+5V POWER INPUT
18	X	X	X	X	X	+15V POWER INPUT
19	X	X	X	X	X	-15V POWER INPUT
20	X	X	X	X	X	POWER GROUND
21	X	X	X	X	X	EXTERNAL TRIGGER INPUT
22	X	X	X	X	X	INTERNAL TRIGGER OUTPUT
23	X	X	X	X	X	INTERNAL TRIGGER RATE ADJUST
24	X	X	X	X	X	INTERNAL TRIGGER RATE ADJUST
25	X	X	X	X	X	F.S. ADJUST (OR EXTERN REFER INPUT)
26	X	X	X	X	X	ANALOG GROUND
27	X	X	X	X	X	ANALOG INPUT (LOW)
28	X	X	X	X	X	ANALOG INPUT (HIGH)

NOTES: X-ALL MODELS
FOR SINGLE ENDED ANALOG INPUT SIGNALS, CONNECT TO PIN 28 (HIGH) AND TO PINS 26 & 27 (LOW).
FOR DIFFERENTIAL ANALOG INPUT SIGNALS, CONNECT ACROSS PINS 27 (LOW) AND 28 (HIGH).

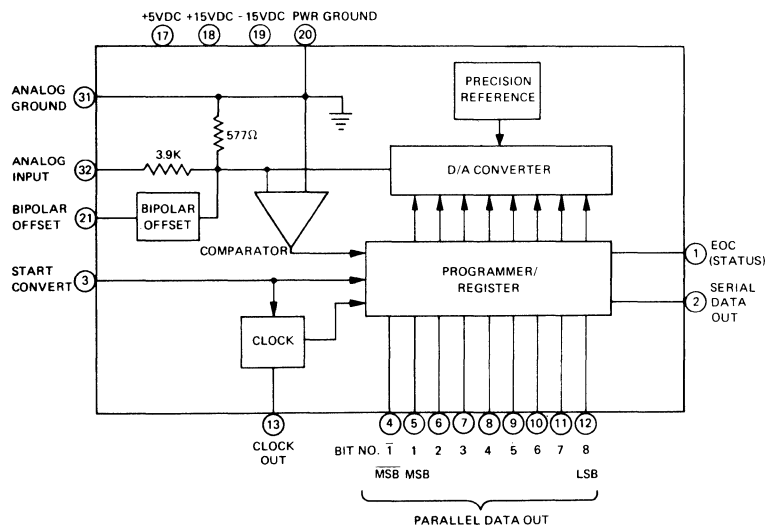
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

BA16



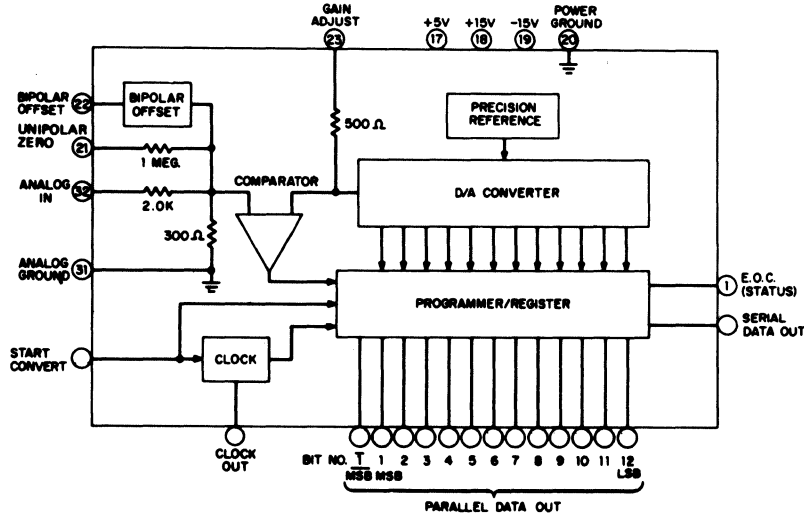
BA17



27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

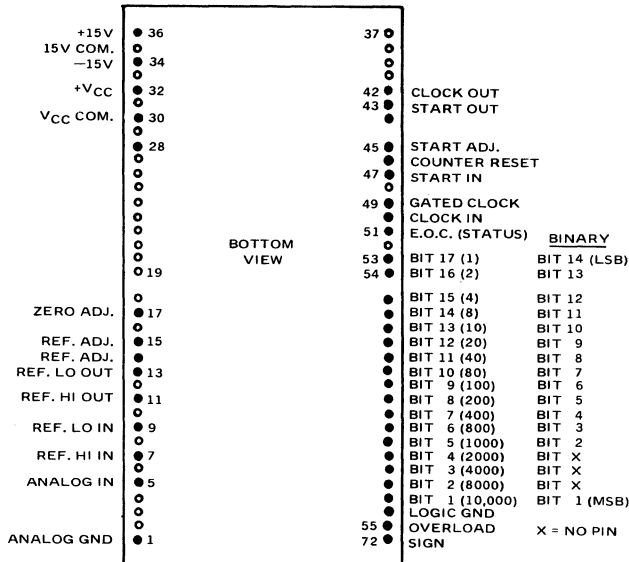
BA18



	START CONVERT	CLOCK OUT	PARALLEL DATA OUT												SERIAL DATA OUT	
			1	2	3	4	5	6	7	8	9	10	11	12		
BA18	3	16	4	5	6	7	8	9	10	11	12	13	14		15	
BA18a	24	2	3	5	6	7	8	9	10	11	12	13	14	15	16	4

BA19

- NOTE: 1. OPEN DOTS DESIGNATE OMITTED PINS.
2. PIN SPACING IS .100 WITH 1.80 BETWEEN ROWS.



27. LOGIC/BLOCK DRAWINGS

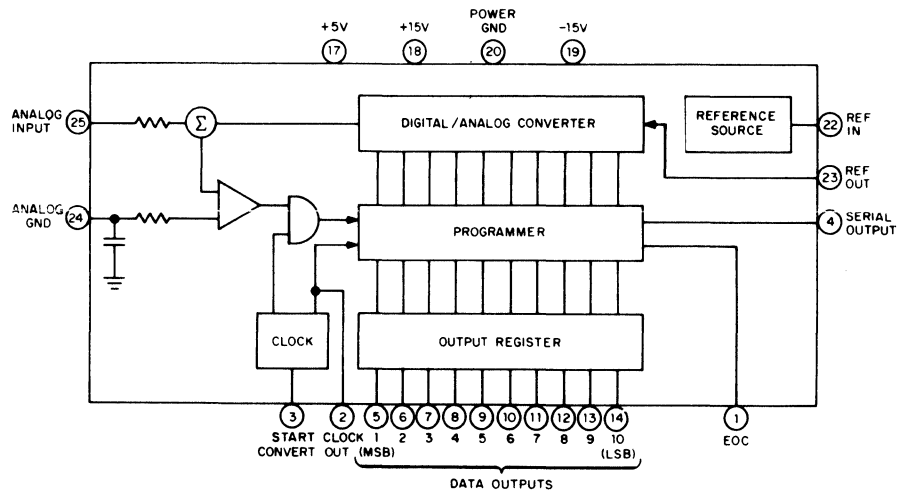
IN DRAWING NUMBER SEQUENCE

BA20

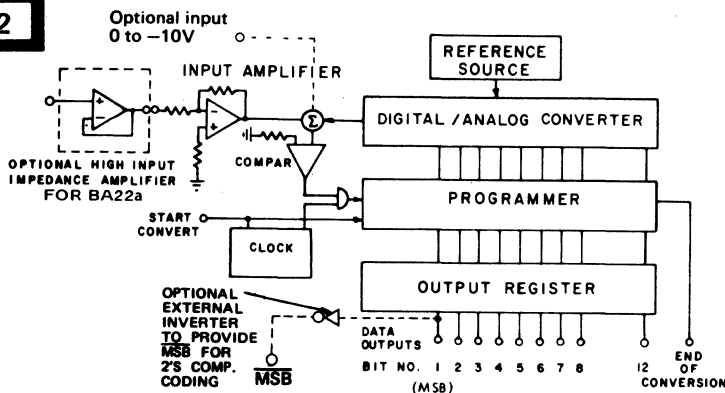
INPUT/OUTPUT CONNECTIONS

PIN	FUNCTION	DIGITAL OUTPUTS				
		BINARY BIT	BCD	DIGIT		
1	ANALOG GND	8B	10B	12B	8D	12D
3	ANALOG IN, LO	X	X	X	X	1
5	ANALOG IN, HI	X	X	12	X	2
7	+ REFERENCE IN	X	X	11	X	4
9	- REFERENCE IN	X	10	10	X	8
17	ZERO ADJUST	X	10	9	1	10
26	- REFERENCE OUT	8	8	8	2	20
28	+ REFERENCE OUT	7	7	7	4	40
30	GAIN ADJ.	6	6	6	8	80
32	-5VDC OUT	5	5	5	10	100
34	POWER GND	4	4	4	20	200
36	+5V POWER IN	3	3	3	40	400
37	CLOCK ADJUST	2	2	2	80	800
39	START RATE ADJ.	1	1	1	100	1000
41	START OUT	X INDICATES NO PIN				
43	GATED CLOCK OUT					
45	E.O.C. (STATUS)					
46	CLOCK OUT					
48	START CONVERT					
49	COUNTER RESET					
70	LOGIC GND					
71	OVERLOAD					
72	SIGN					

BA21



BA22



PIN	FUNCTION	PIN	FUNCTION
1	E.O.C. (STATUS)	13	BIT 9 OUT
2	INTERNAL CLOCK OUT	14	BIT 10 OUT
3	START CONVERT	15	BIT 11 OUT
4	SERIAL OUTPUT	16	BIT 12 OUT
5	BIT 1 OUT (MSB) 800	17	+5V POWER INPUT
6	BIT 2 OUT 400	18	+15V POWER INPUT
7	BIT 3 OUT 200	19	-15V POWER INPUT
8	BIT 4 OUT 100	20	POWER GROUND
9	BIT 5 OUT 80	21	OFFSET*
10	BIT 6 OUT 40	22	REFERENCE IN*
11	BIT 7 OUT 20	23	REFERENCE OUT*
12	BIT 8 OUT 10	24	ANALOG GROUND
		25	ANALOG INPUT

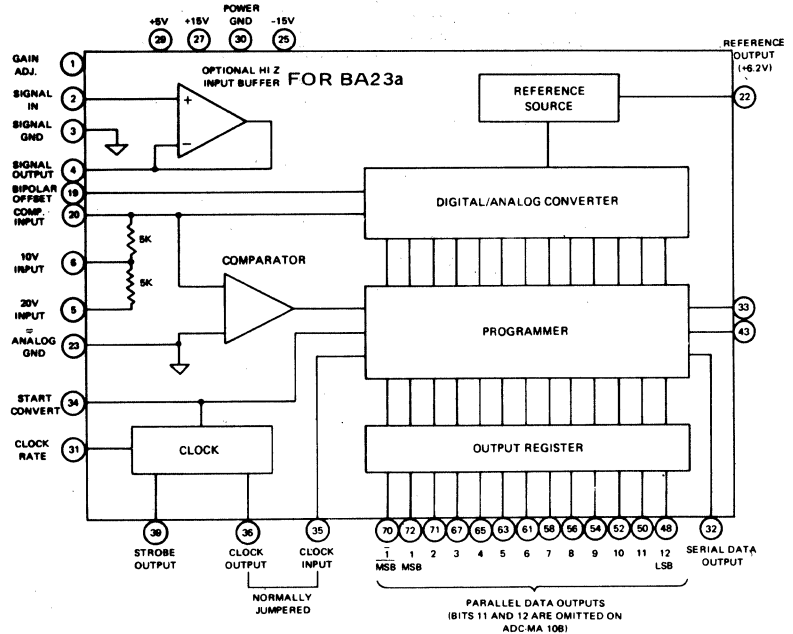
NOTE: FOR MODEL ADC - L 8B, BIT 8 (PIN 12) IS LSB
 FOR MODEL ADC - L10B, BIT 10 (PIN 14) IS LSB
 FOR MODEL ADC - L12B, BIT 12 (PIN 16) IS LSB

* NOT USED ON 8 BIT MODELS.

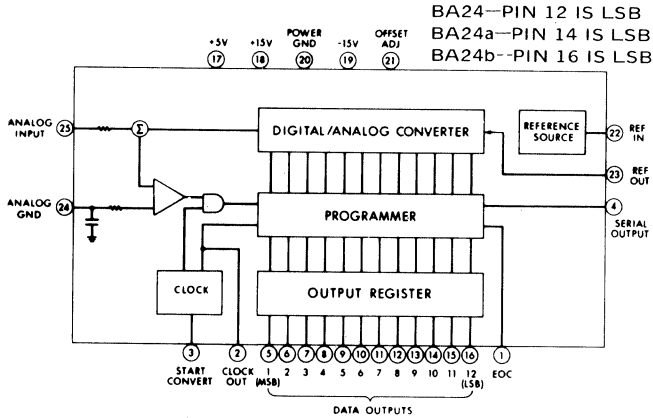
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

BA23



BA24

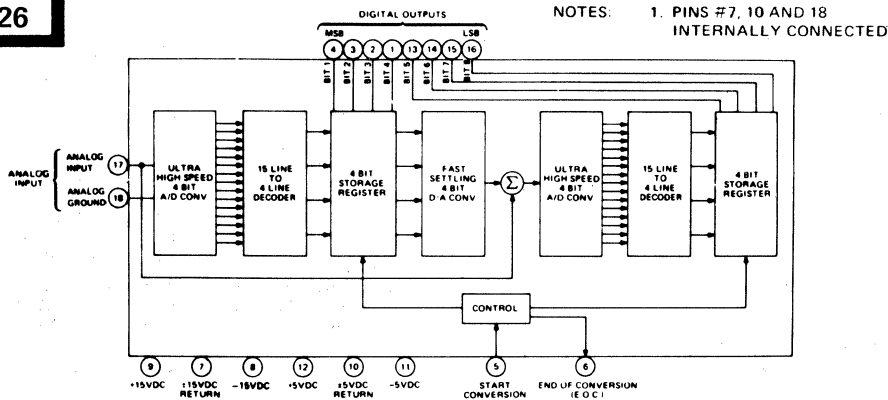


BA25

PIN	FUNCTION	PIN	FUNCTION
1	E.O.C.	8	BIT 4 (LSB)
2	DIGITAL GROUND	9	+5V PWR INPUT
3	START CONVERT	10	+15V PWR INPUT
4	DIGITAL GROUND	11	-15V PWR INPUT
5	BIT 1 (MSB)	12	POWER GROUND
6	BIT 2	13	ANALOG GROUND
7	BIT 3	14	ANALOG INPUT

NOTE: ANALOG, POWER, AND DIGITAL GROUNDS ARE CONNECTED INTERNALLY.

BA26

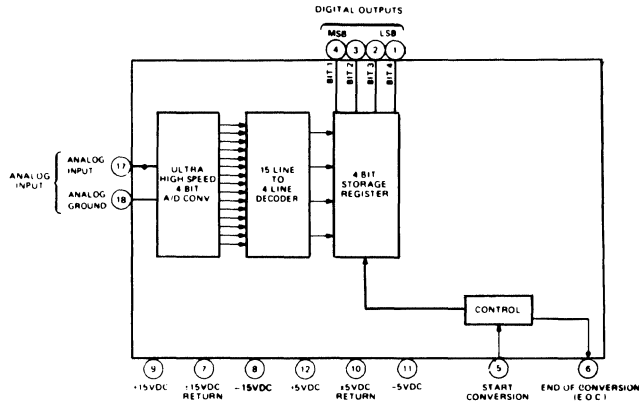


PIN	FUNCTION
1	BIT 4 (LSB)
2	BIT 3
3	BIT 2
4	BIT 1 (MSB)
5	START CONVERT
6	E.O.C. (STATUS)
7	±15V RETURN (1)
8	-15VDC
9	+15VDC
10	±5V RETURN (1)
11	-5VDC
12	+5VDC
13	BIT 5
14	BIT 6 (LSB) BA26a
16	BIT 7
16	BIT 8 (LSB) BA26
17	ANALOG INPUT
18	ANALOG GROUND (1)

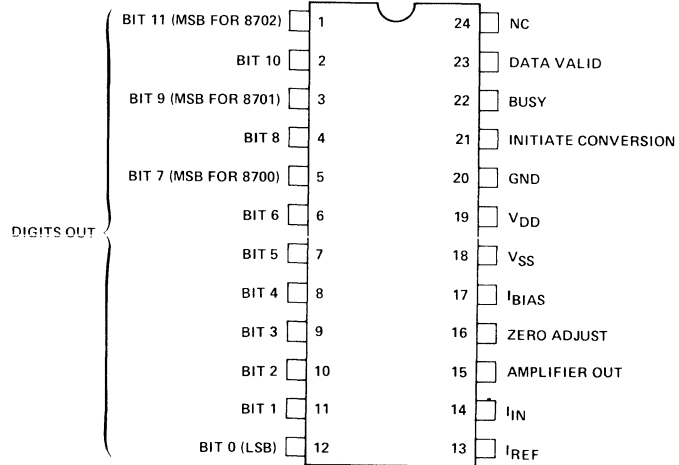
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

BA27



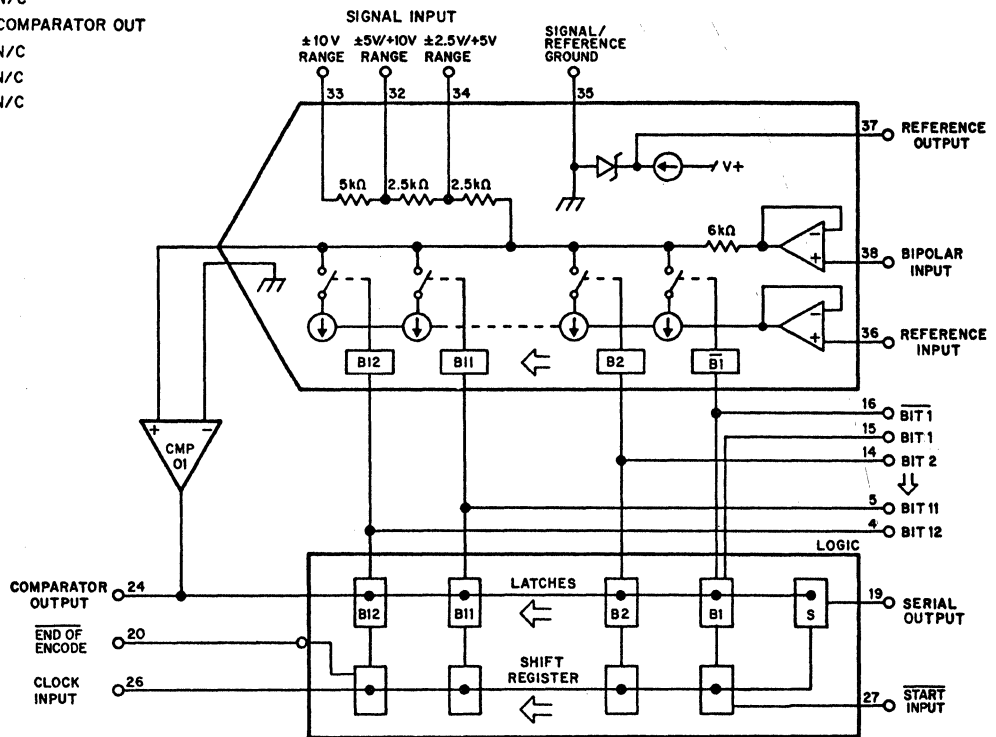
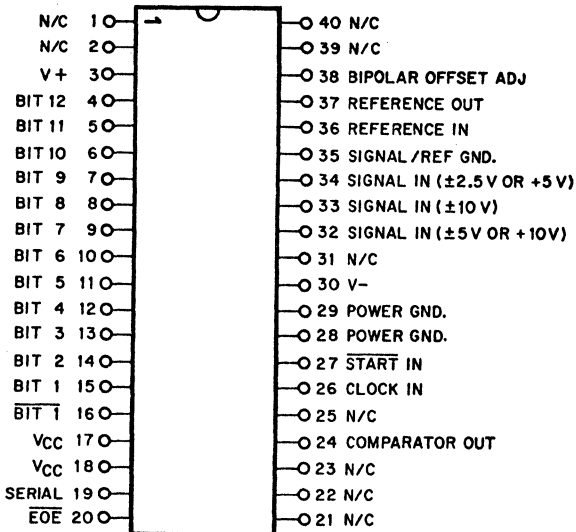
BA28



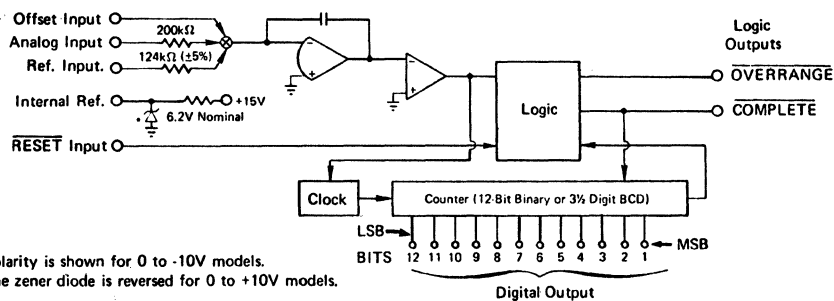
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

BA29



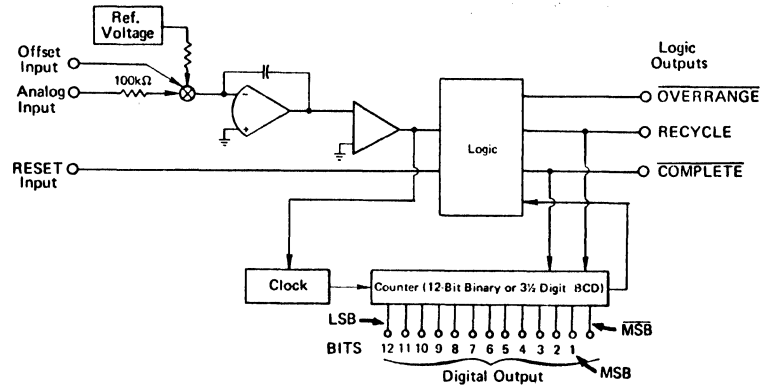
BA30



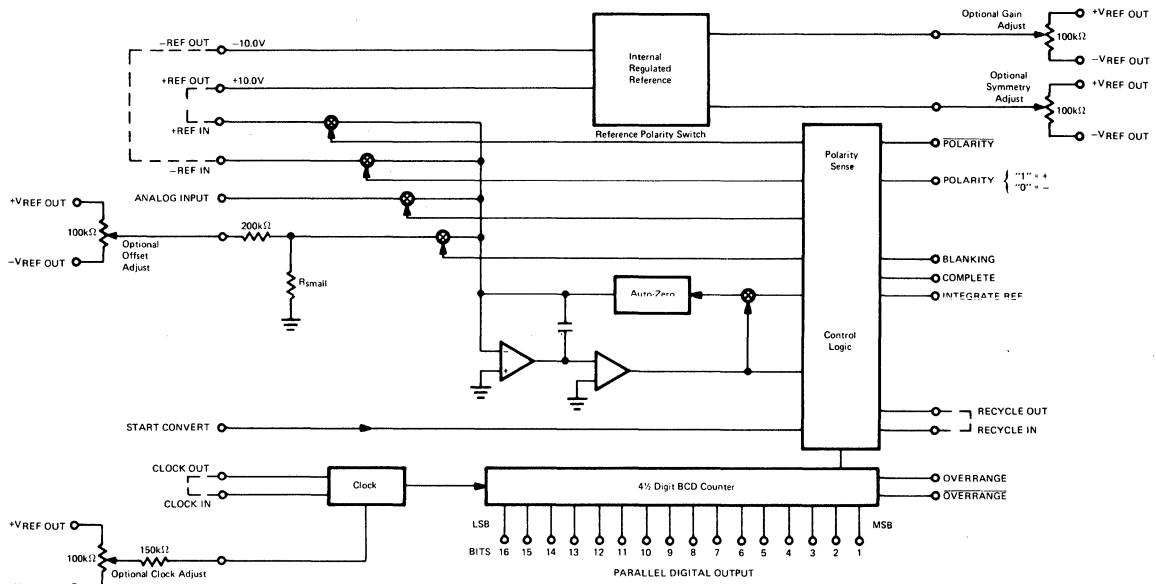
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

BA31

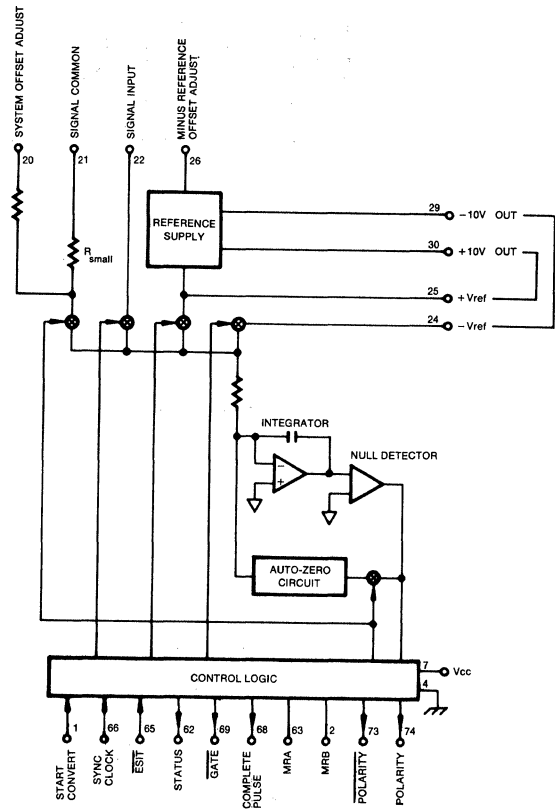


BA32

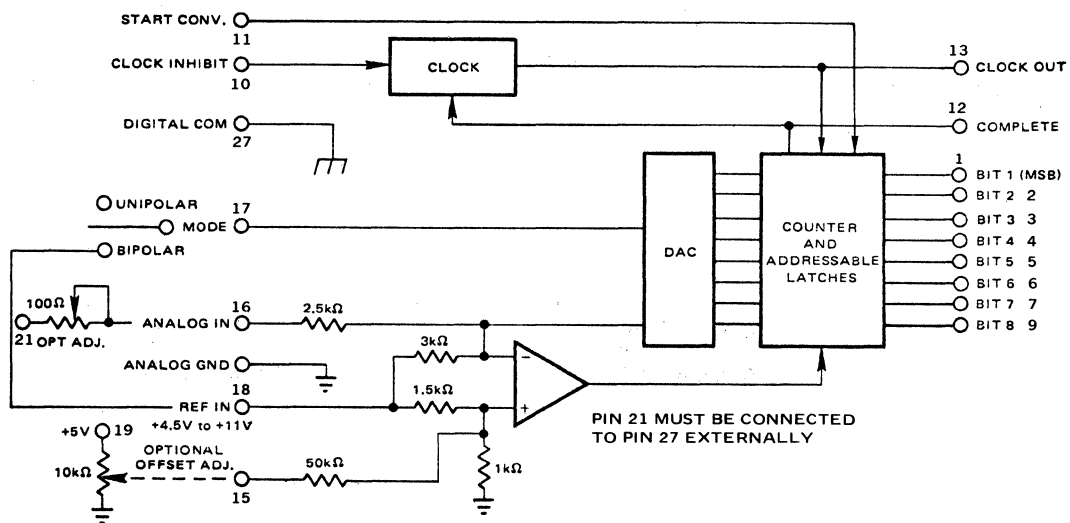


27. LOGIC/BLOCK DRAWINGS IN DRAWING NUMBER SEQUENCE

BA33



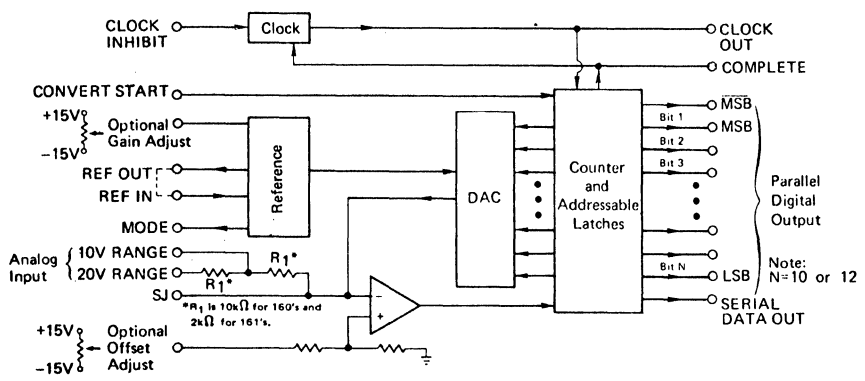
BA34



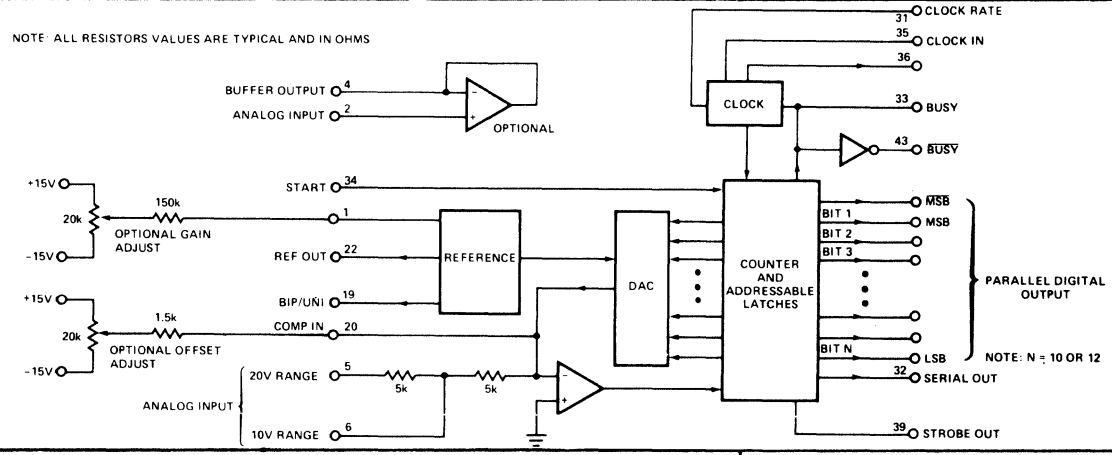
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

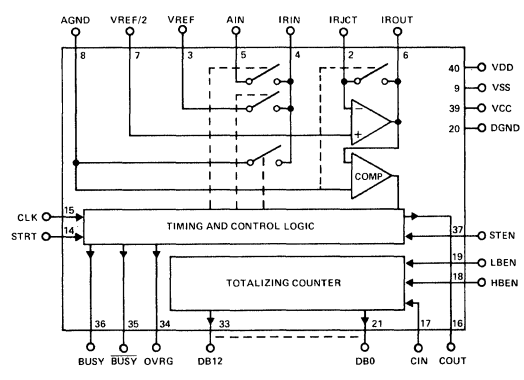
BA35



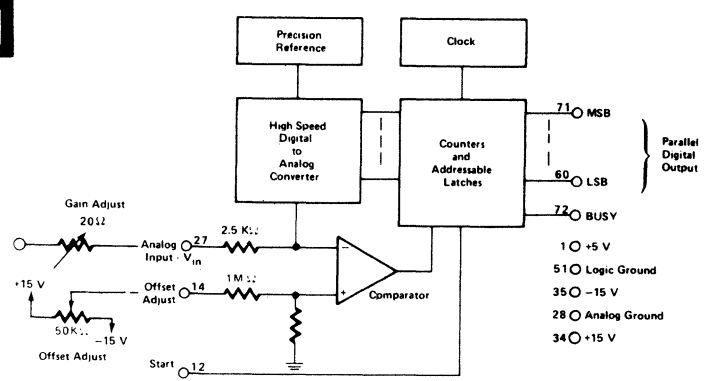
BA36



BA37



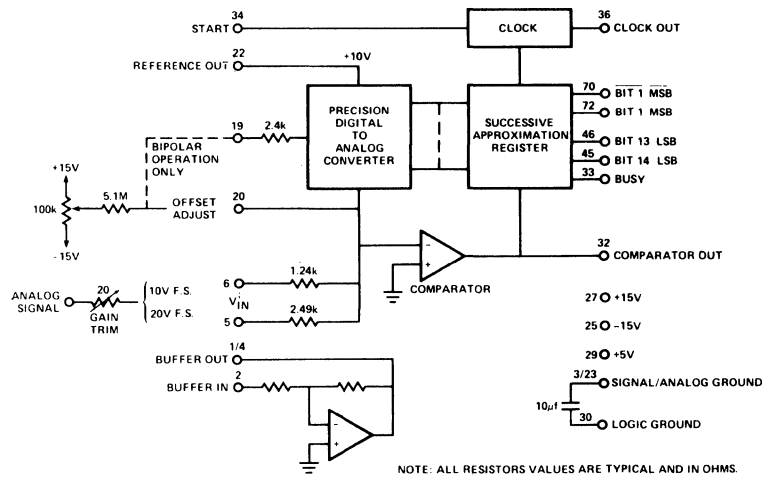
BA38



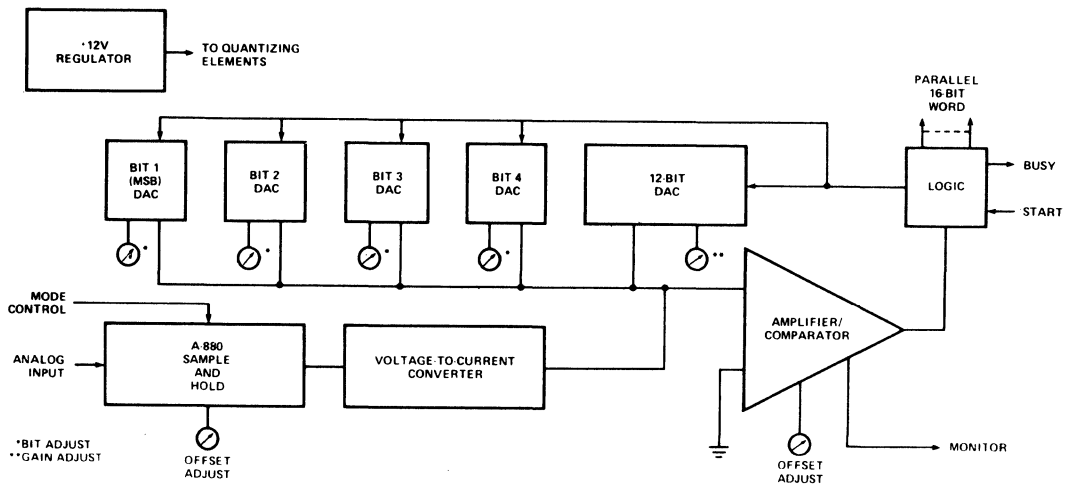
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

BA43



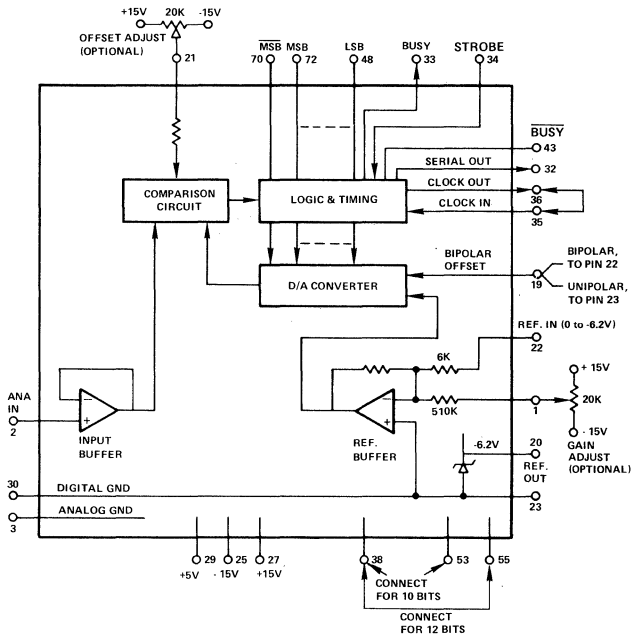
BA44



27. LOGIC/BLOCK DRAWINGS

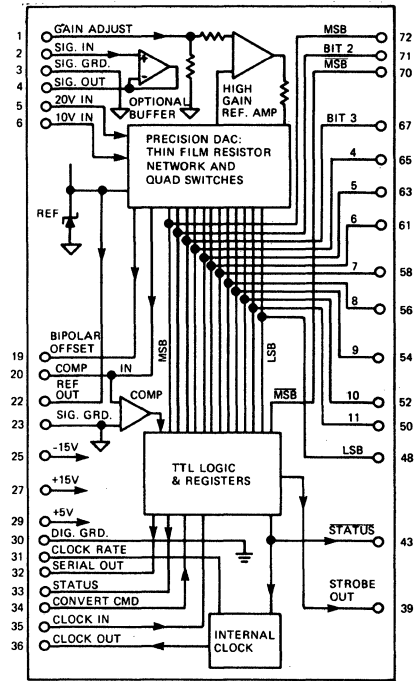
IN DRAWING NUMBER SEQUENCE

BA45



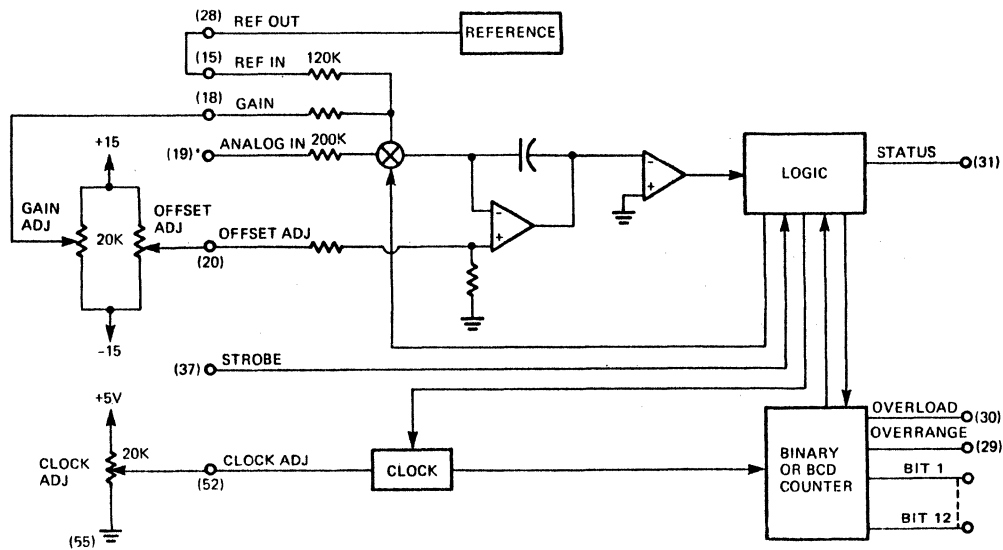
PIN	FUNCTION
1	GAIN ADJUST
2	ANALOG IN
3	ANALOG GRD
19	BIPOLAR OFFSET
20	REF OUT
21	OFFSET ADJUST
22	REF IN
23	ANALOG GRD
25	-15 VDC
27	+15 VDC
29	+5 VDC
30	DIGITAL GRD
32	SERIAL OUT
33	BUSY (STATUS)
34	STROBE (CONV.)
35	CLOCK IN
36	CLOCK OUT
38	RESOLUTION SELECT
43	BUSY (STATUS)
48	LSB (2-12)
50	BIT 11 (2-11)
52	BIT 10 (2-10)
53	SELECT 10 BITS
54	BIT 9 (2-9)
55	SELECT 12 BITS
56	BIT 8 (2-8)
58	BIT 7 (2-7)
61	BIT 6 (2-6)
63	BIT 5 (2-5)
65	BIT 4 (2-4)
67	BIT 3 (2-3)
70	MSB (2-1)
71	BIT 2 (2-2)
72	MSB (2-1)

BA46



NOTE: FOR BA46a ONLY
 1. OPTIONAL BUFFER NOT AVAILABLE
 2. PINS 2 AND 4 INTERNALLY CONNECTED

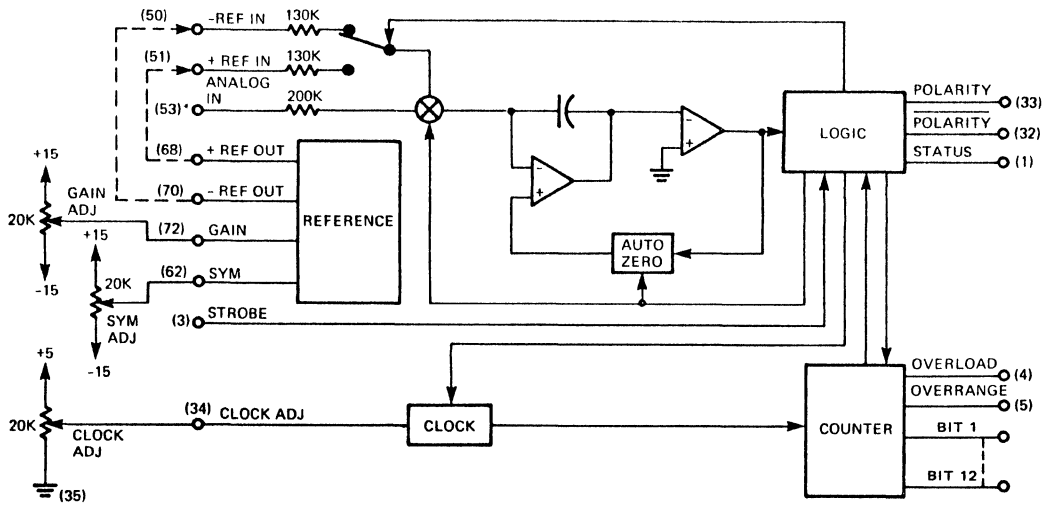
BA47



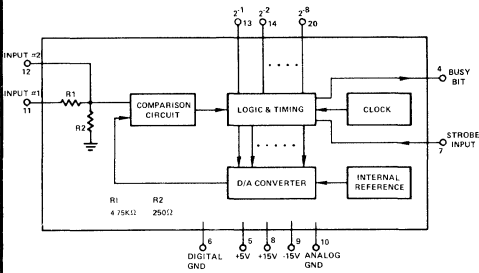
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

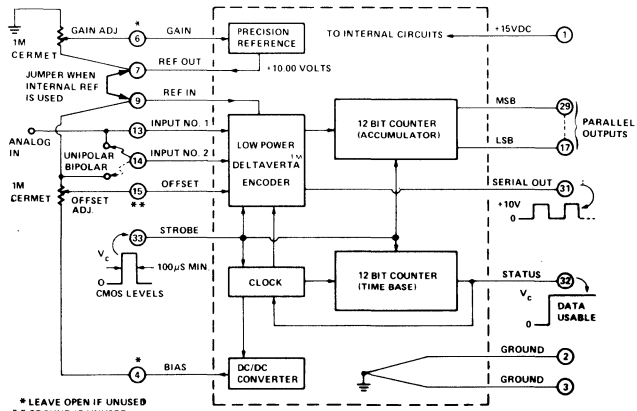
BA48



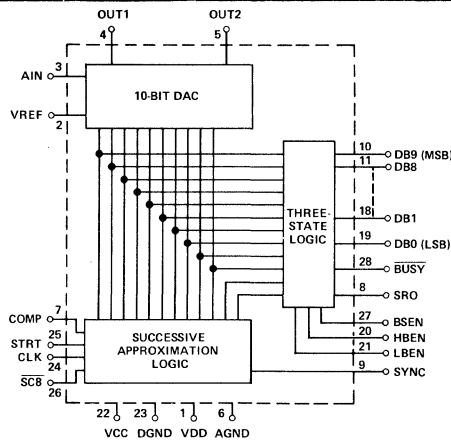
BA49



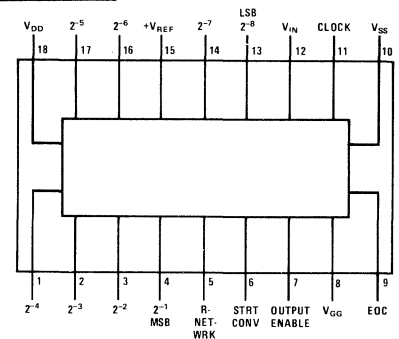
BA50



BA51



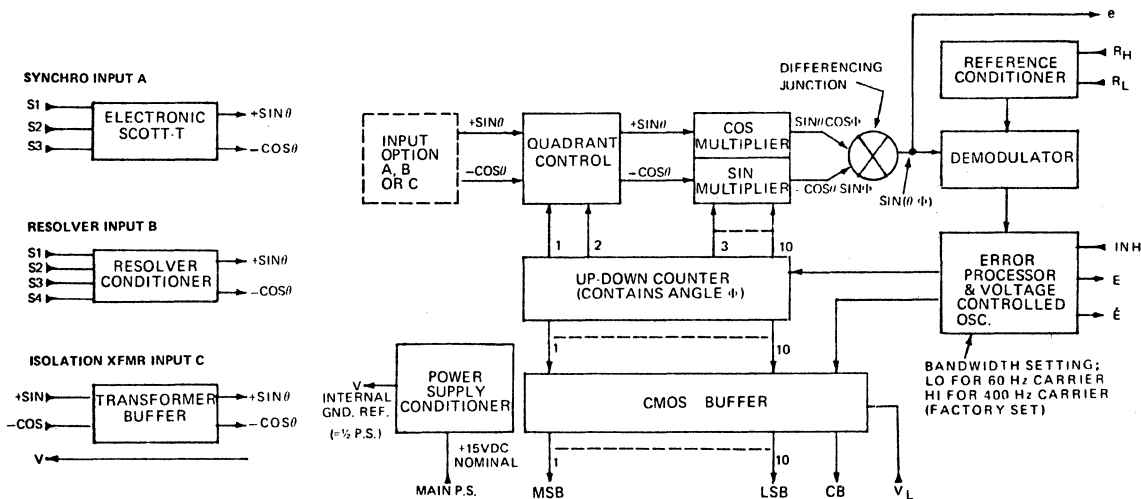
BA52



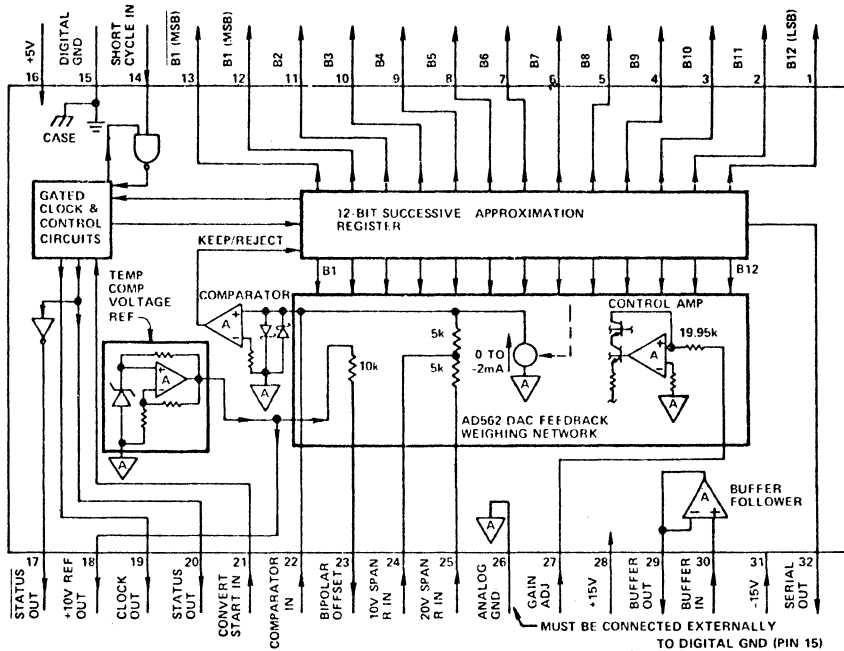
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

BA53



BA54

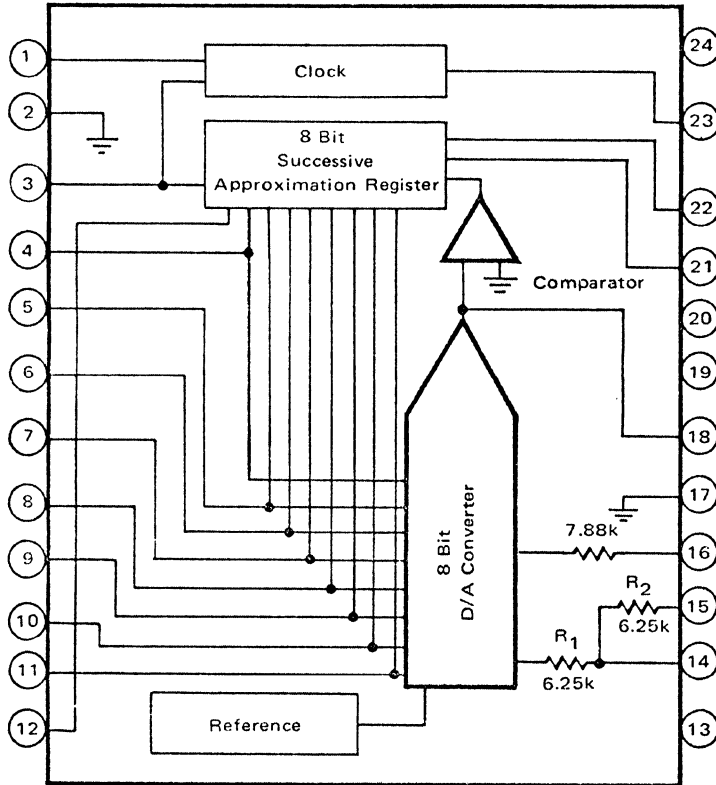


27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

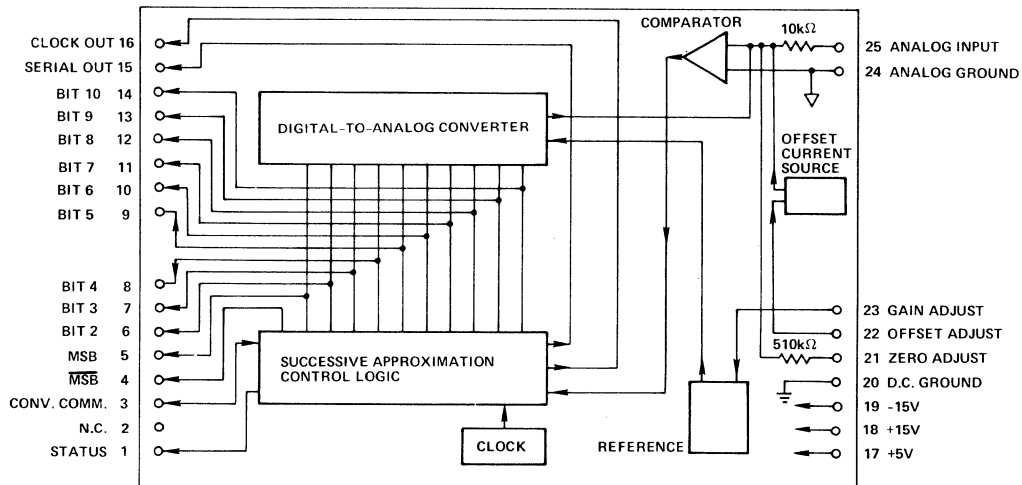
BA55

TOP VIEW



- | | |
|-------------------|--------------------------------|
| 1. Clock Out | 24. +5V |
| 2. Digital Common | 23. Convert Command |
| 3. Status | 22. Clock In |
| 4. Bit 8 (LSB) | 21. Serial Out |
| 5. Bit 7 | 20. -15V |
| 6. Bit 6 | 19. +15V |
| 7. Bit 5 | 18. Comparator Input |
| 8. Bit 4 | 17. Analog Common |
| 9. Bit 3 | 16. Bipolar Offset |
| 10. Bit 2 | 15. R ₂ (20V Range) |
| 11. Bit 1 (MSB) | 14. R ₁ (10V Range) |
| 12. Bit 1 (MSB) | 13. Gain Adjust |

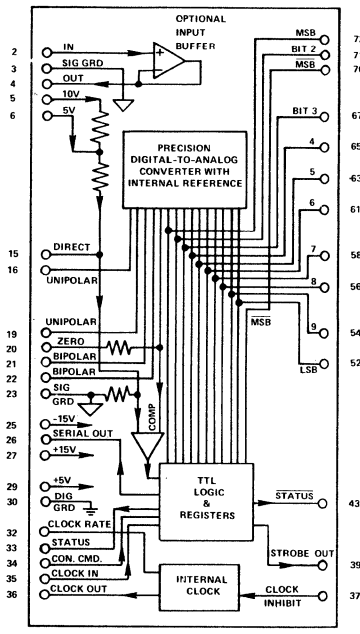
BA56



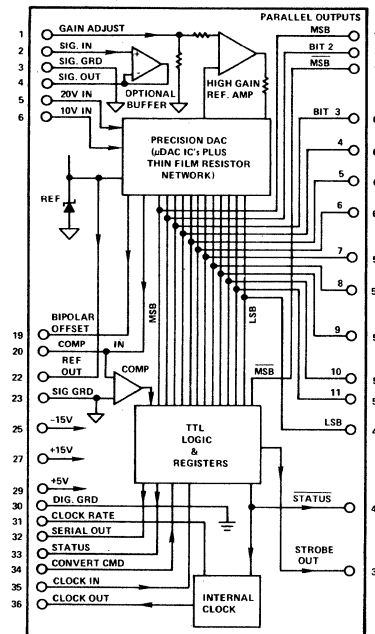
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

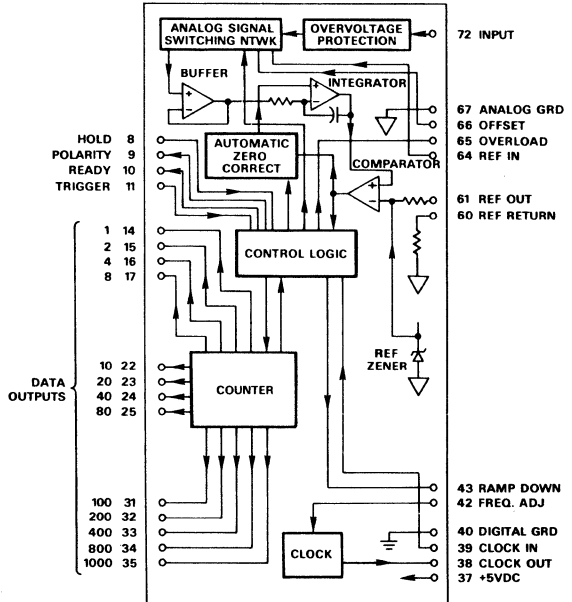
BA57



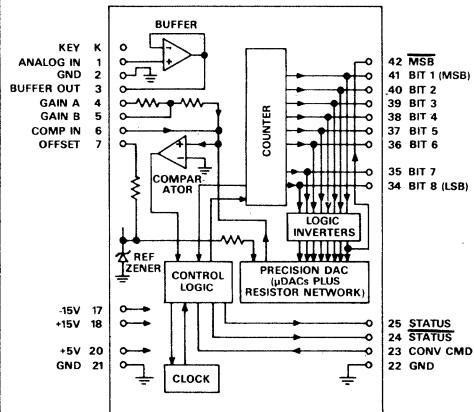
BA58



BA59



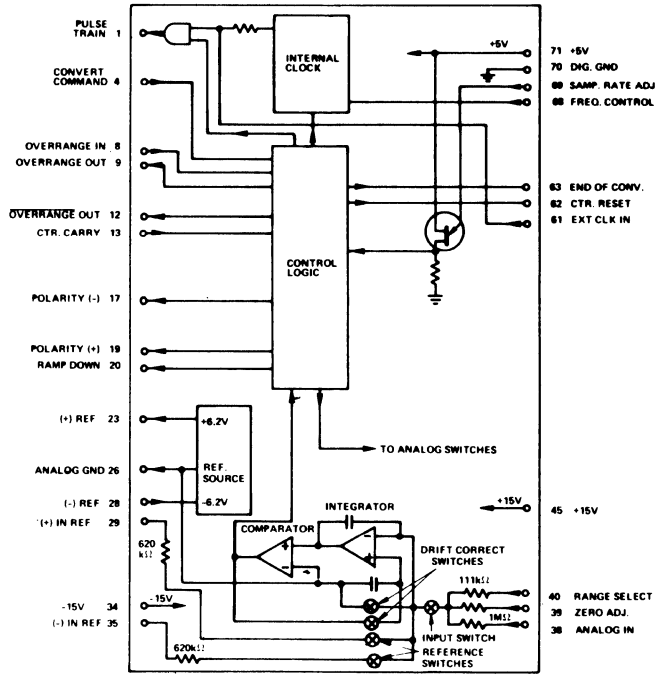
BA60



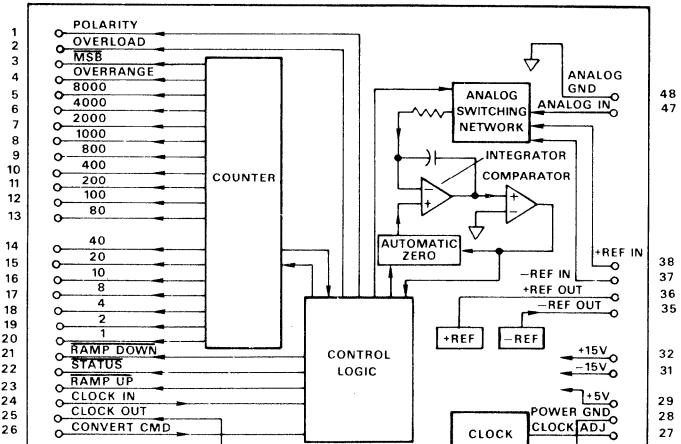
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

BA61



BA62

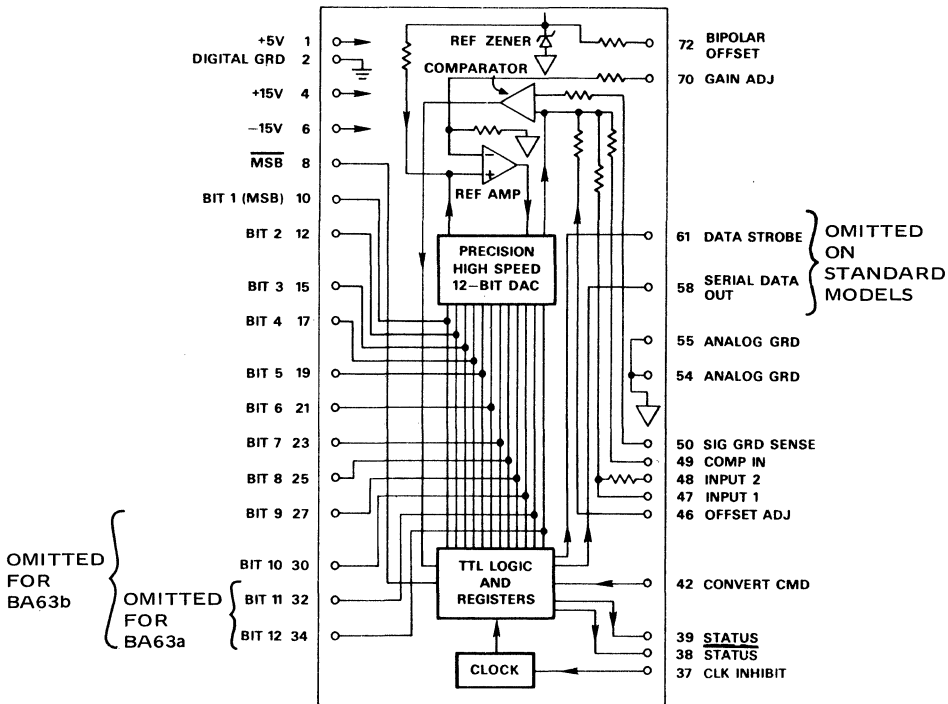


NOTE: ON THE ADC-141, PINS 6, 7, AND 8 ARE OMITTED; THE MSB IS ON PIN 4, AND BIT 2 IS ON PIN 5. BITS 3 THROUGH 14 ARE ON PINS 9 THROUGH 20, RESPECTIVELY.

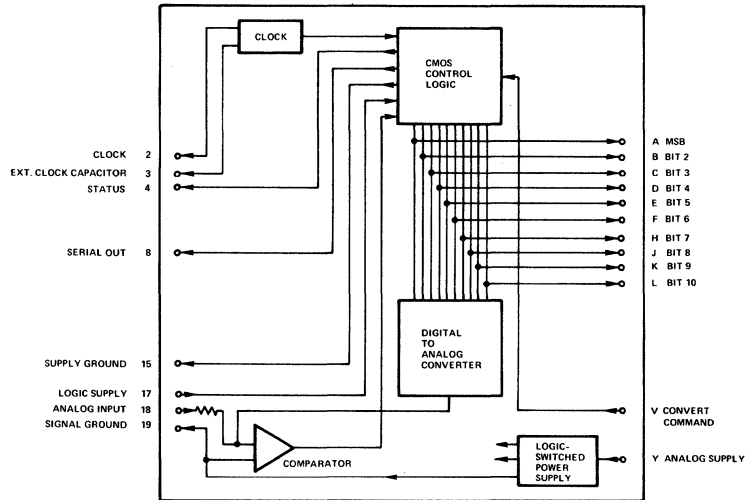
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

BA63



BA64



27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

BA65

PIN DESIGNATIONS: ADC-12QL

PIN	FUNCTION	PIN	FUNCTION
1	N.C.	A	BIT 1 (MSB)
2	CLOCK	B	BIT 2
3	EXTERNAL CLOCK CAP.	C	BIT 3
4	STATUS	D	BIT 4
5	N.C.	E	BIT 5
6		F	BIT 6
7		H	BIT 7
8	SERIAL OUT	J	BIT 8
9	N.C.	K	BIT 9
10		L	BIT 10
11		M	BIT 11
12	N.C.	N	BIT 12 (LSB)
13		P	N.C.
14		R	
15	SUPPLY GROUND	S	
16	N.C.	T	N.C.
17	LOGIC SUPPLY	U	
18	ANALOG INPUT	V	
19	SIGNAL GROUND	W	N.C.
20	N.C.	X	N.C.
21		Y	ANALOG SUPPLY
22		Z	N.C.

BA66

PIN	FUNCTION	PIN	FUNCTION
1	BIT 1 (MSB)	A	BIT 1 (MSB)
2	N.C.	B	BIT 2
3	N.C.	C	BIT 3
4	N.C.	D	BIT 4
5	} INTERLOCK	E	BIT 5
6		F	BIT 6
7	N.C.	H	BIT 7
8	} EXTERNAL CAPACITOR FOR CLOCK RATE	J	BIT 8
9		K	BIT 9
10	N.C.	L	BIT 10
11	BIT 14	M	BIT 11
12	BIT 15	N	BIT 12
13	BIT 16 (LSB)	P	BIT 13
14	SERIAL OUTPUT	R	CLOCK OUTPUT
15	CONVERT INPUT	S [†]	SHORT CYCLE RETURN
16	STATUS OUTPUT	T	STATUS OUTPUT
17	DIGITAL 5V COMMON	U	+5VDC INPUT (V _L)
18	+15VDC INPUT (+V _S)	V	-15VDC INPUT (-V _S)
19 [‡]	±15V COMMON	W [‡]	±15V COMMON
20*	SIGNAL (-) INPUT	X*	SIGNAL (-) INPUT
21	SIGNAL (+) INPUT	Y*	SIGNAL (-) INPUT
22*	SIGNAL (-) INPUT	Z*	SIGNAL (-) INPUT

*Pins 20, 22, X, Y, Z all connected internally to signal (-) input. Do not use as tie points for any function other than signal input.

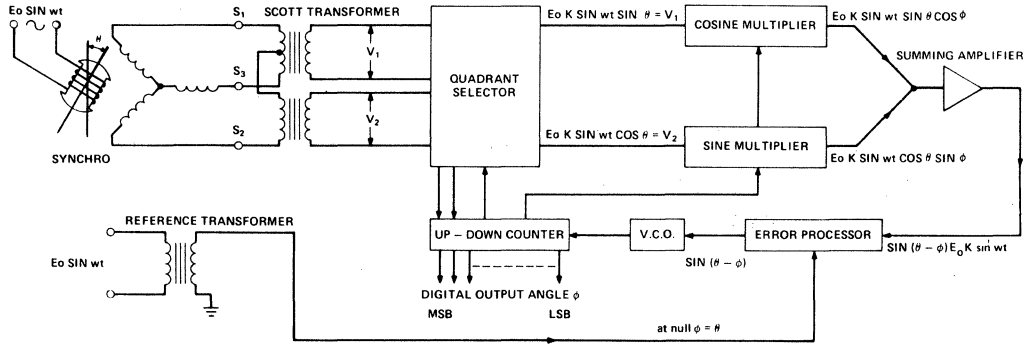
‡Pins 19 and W are connected together internally. Use one for power ground and the other for signal source ground return.

†Must be tied to Pin #17 for 16-bit operation.

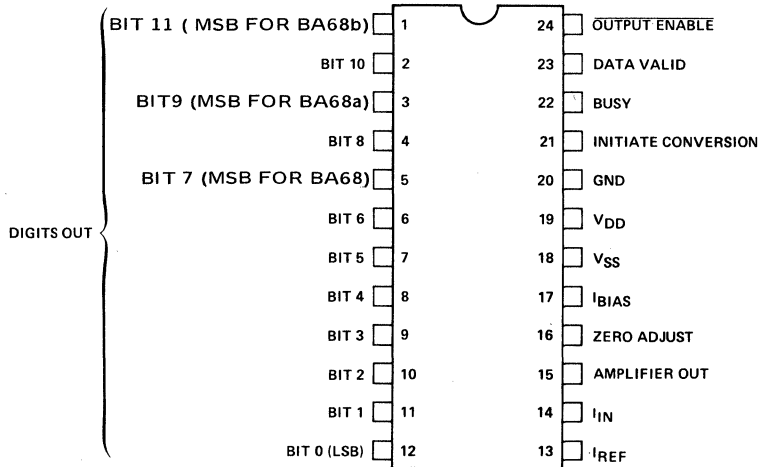
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

BA67



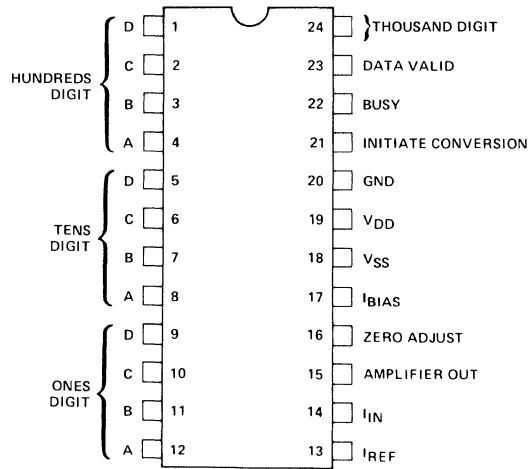
BA68



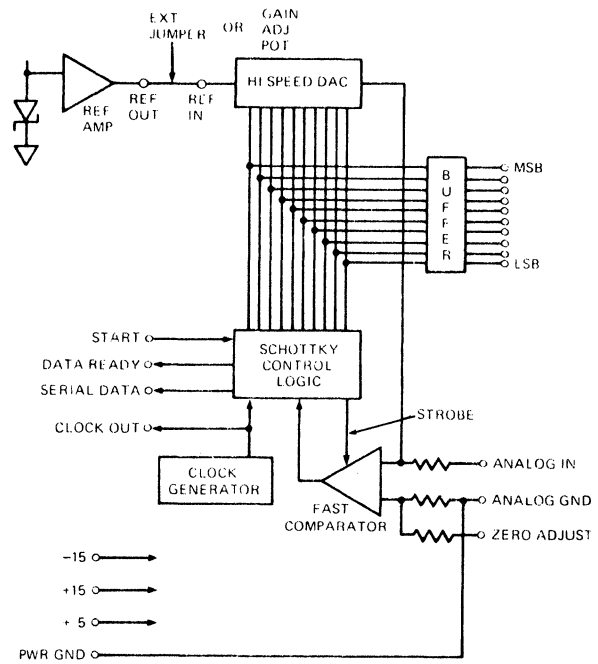
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

BA69



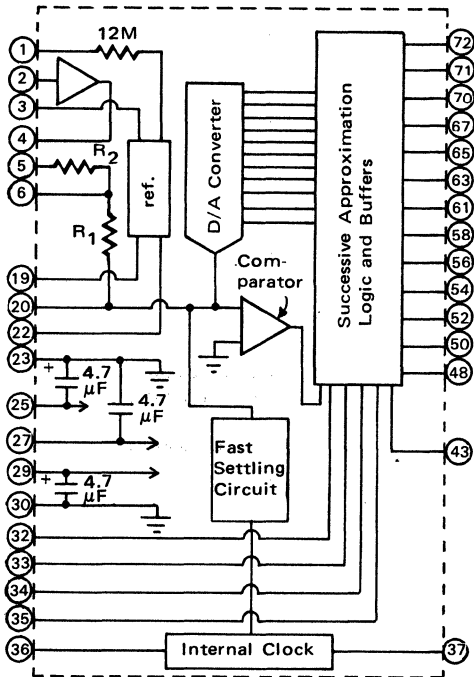
BA70



27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

BA71

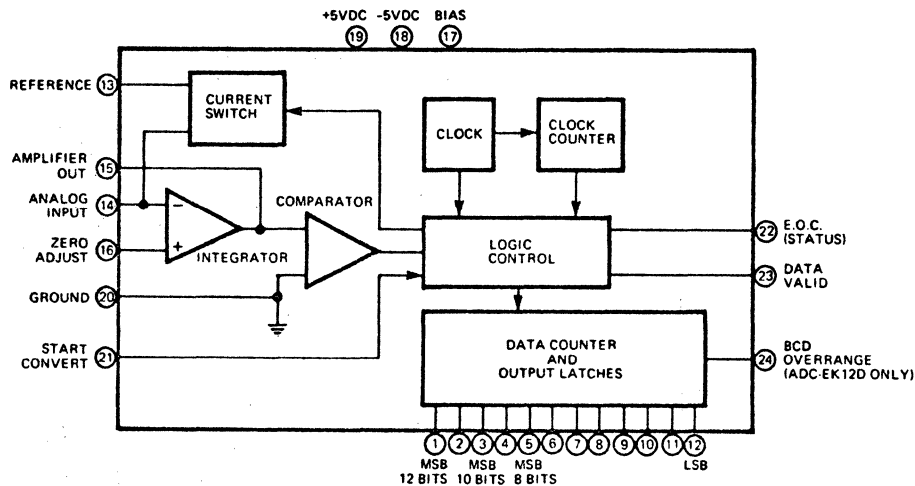


PIN CONNECTIONS

1	Gain Adj.	25	-15V	49	No Connection
2	Analog In.	26	No Connection	50	Bit 11*
3	An. In. Com	27	+15V	51	No Connection
4	Buffer Out	28	No Connection	52	Bit 10
5	R2	29	+5V	53	No Connection
6	R1	30	Dig. Com.	54	Bit 9
19	No Connection	31	No Connection	55	No Connection
20	No Connection	32	Serial Out	56	Bit 8
22	No Connection	33	Status	57	No Connection
23	No Connection	34	Convert Command	58	Bit 7
25	No Connection	35	Clock In	59	No Connection
27	No Connection	36	Clock Out	60	No Connection
29	No Connection	37	Clock Inhibit	61	Bit 6
30	No Connection	38	No Connection	62	No Connection
32	No Connection	39	No Connection	63	Bit 5
33	No Connection	40	No Connection	64	No Connection
34	No Connection	41	No Connection	65	Bit 4
35	No Connection	42	No Connection	66	No Connection
36	No Connection	43	Status	67	Bit 3
		44	Comp. In.	68	No Connection
		45	No Connection	69	No Connection
		46	Ref. Out	70	Bit 1 (MSB)
		47	Analog Com.	71	Bit 2
		48	Bit 12*	72	Bit 1 (MSB)

*Not connected for 10-bit models.

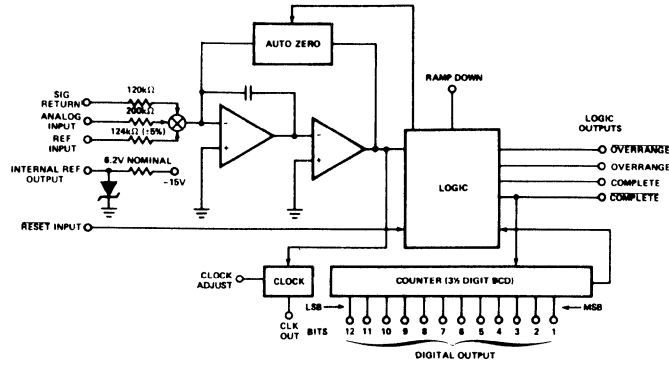
BA72



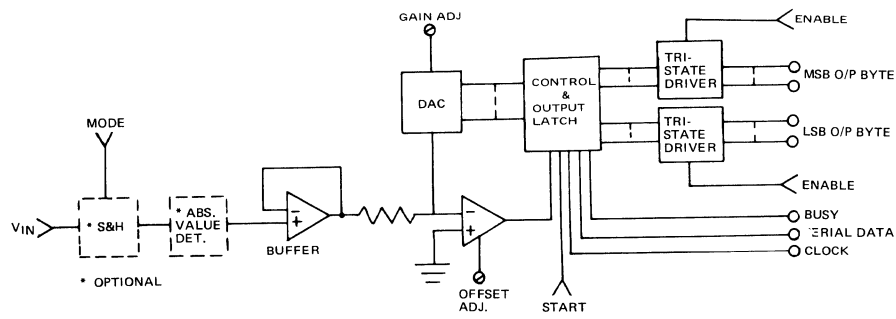
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

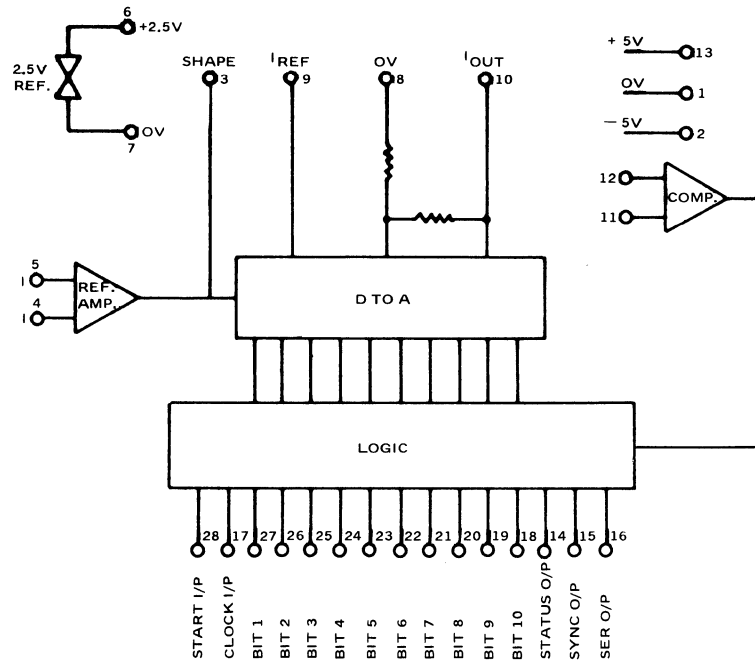
BA73



BA74



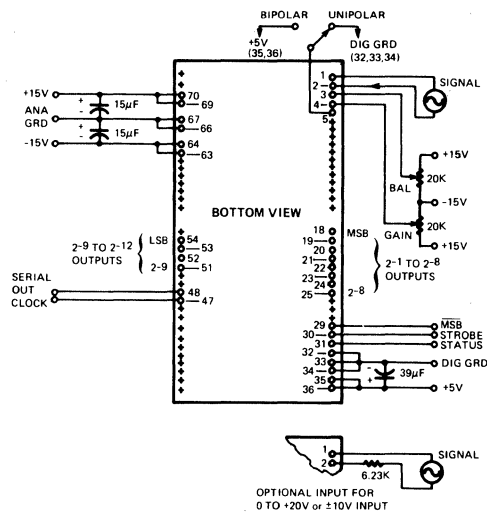
BA75



27. LOGIC/BLOCK DRAWINGS

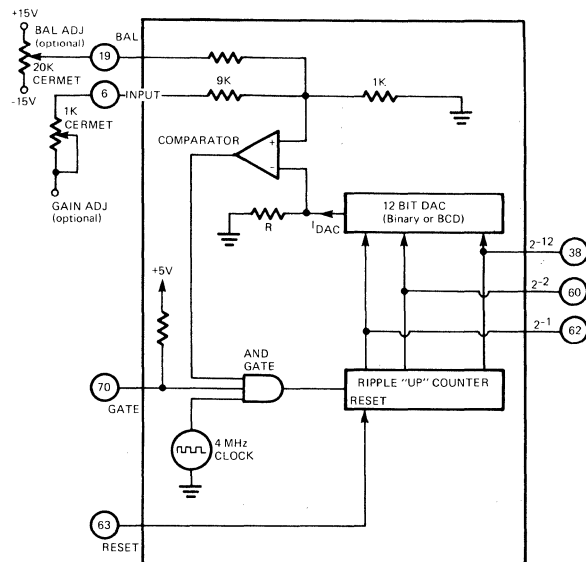
IN DRAWING NUMBER
SEQUENCE

BA76



PIN	FUNCTION
1	ANALOG GRD
2	ANALOG IN
3	BALANCE
4	GAIN ADJ
5	SIGN BIT CONTROL
18	2-1 MSB
19	2-2
20	2-3
21	2-4
22	2-5
23	2-6
24	2-7
25	2-8
29	MSB
30	STROBE
31	STATUS
32	DIG GRD
33	DIG GRD
34	DIG GRD
35	+5V
36	+5V
47	CLOCK
48	SERIAL OUT
51	2-9
52	2-10
53	2-11
54	2-12 LSB
63	-15V
64	-15V
66	ANALOG GRD
67	ANALOG GRD
69	+15V
70	+15V

BA77

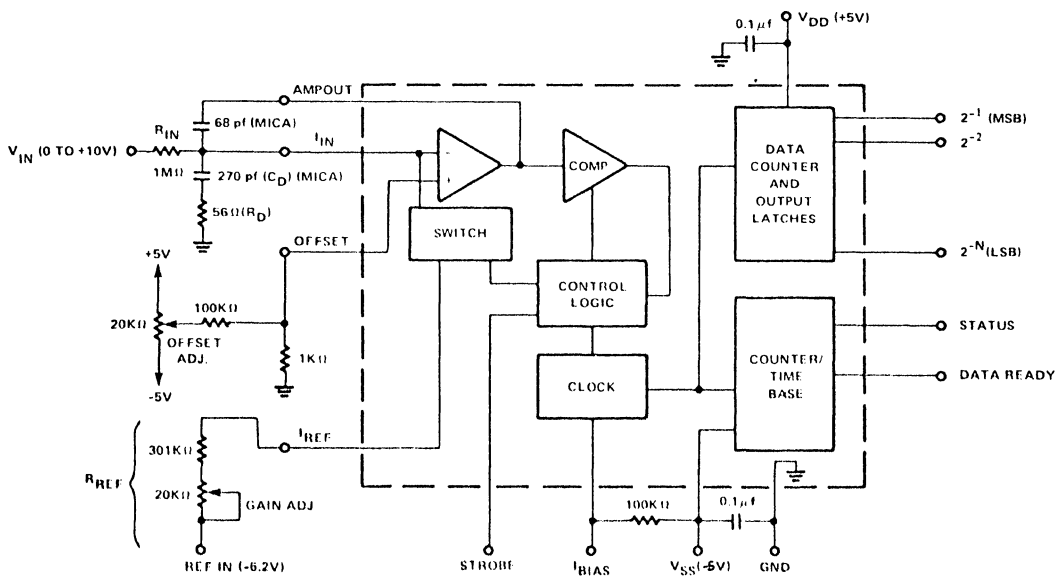


PIN	FUNCTION
1	ANAL GRD
6	INPUT
15	-15V
19	BAL
22	+15V
32	+15V
38	2-12 (1)
40	2-11 (2)
42	2-10 (4)
44	2-9 (8)
47	2-8 (16)
49	2-7 (20)
51	2-6 (40)
53	2-5 (80)
56	2-4 (160)
58	2-3 (200)
60	2-2 (400)
62	2-1 (800)
63	RESET
64	DIG GRD
65	DIG GRD
67	+5V
68	+5V
70	GATE

27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

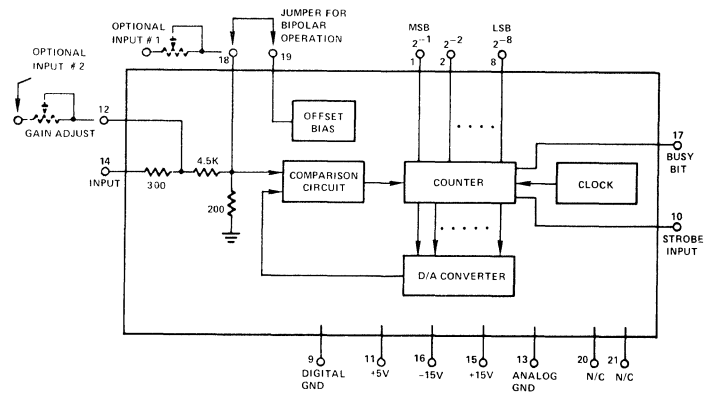
BA78



Pin	FUNCTION			Pin	FUNCTION
	BA78	BA78a	BA78b		
1	N/C	N/C	2 ⁻¹	13	I _{Ref}
2	N/C	N/C	2 ⁻²	14	I _{in}
3	N/C	2 ⁻¹	2 ⁻³	15	Amp Out
4	N/C	2 ⁻²	2 ⁻⁴	16	Offset
5	2 ⁻¹	2 ⁻³	2 ⁻⁵	17	I _{Bias}
6	2 ⁻²	2 ⁻⁴	2 ⁻⁶	18	V _{ss}
7	2 ⁻³	2 ⁻⁵	2 ⁻⁷	19	V _{DD}
8	2 ⁻⁴	2 ⁻⁶	2 ⁻⁸	20	GND
9	2 ⁻⁵	2 ⁻⁷	2 ⁻⁹	21	Strobe
10	2 ⁻⁶	2 ⁻⁸	2 ⁻¹⁰	22	Status
11	2 ⁻⁷	2 ⁻⁹	2 ⁻¹¹	23	Data Ready
12	2 ⁻⁸	2 ⁻¹⁰	2 ⁻¹²	24	N/C

NOTE: N/C = Make no connection

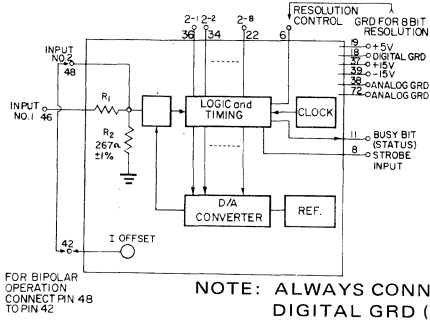
BA79



27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

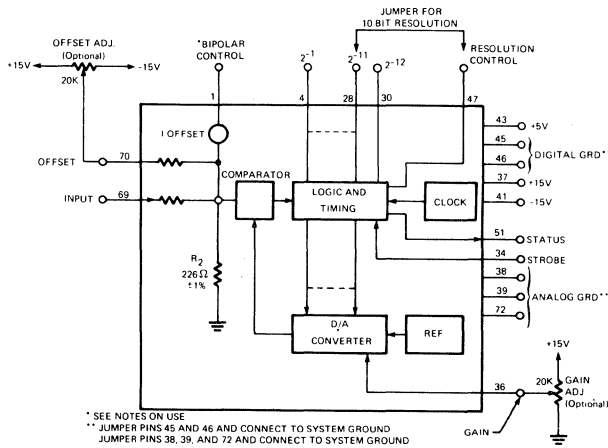
BA80



NOTE: ALWAYS CONNECT DIGITAL GRD (18) TO ANALOG GRD (38); JUMPER PINS 38 AND 72 TOGETHER.

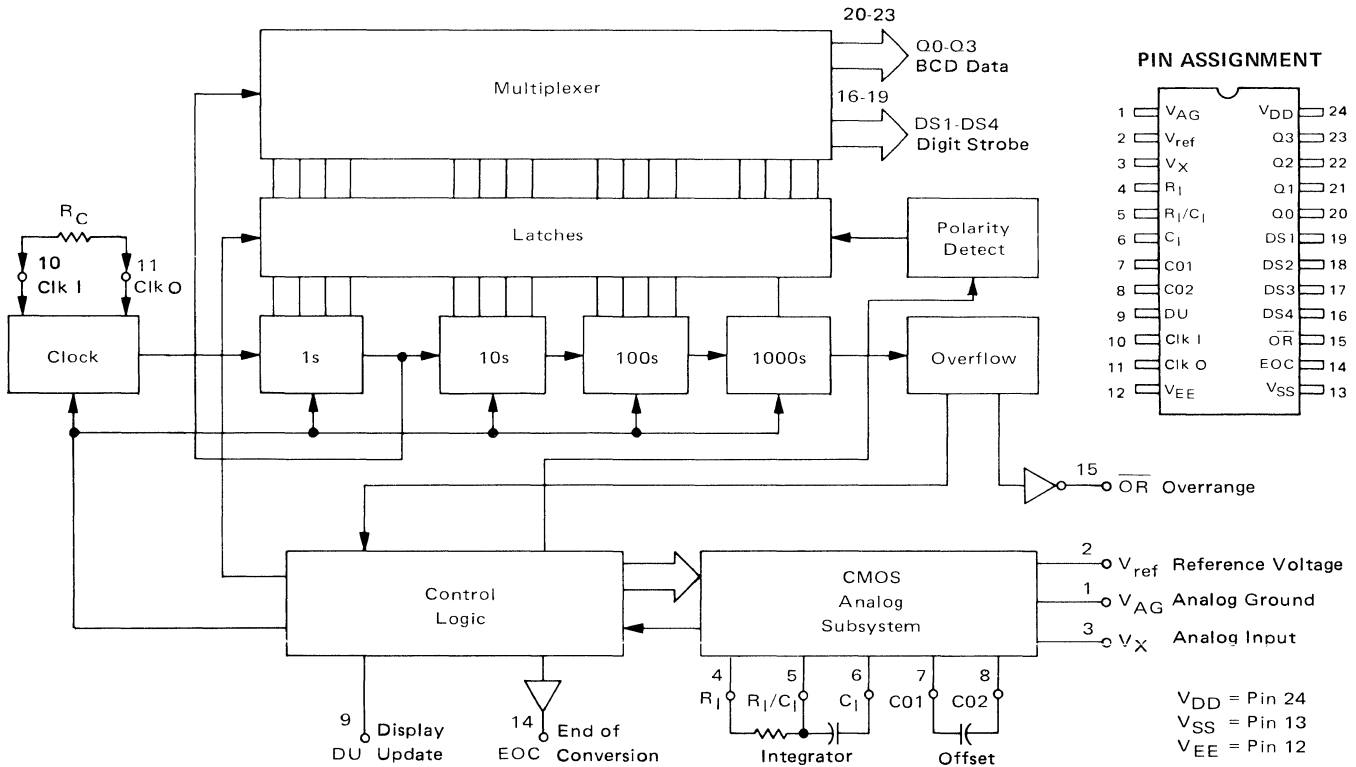
PIN NO.	FUNCTION
6	RESOLUTION CONTROL
8	STROBE
11	STATUS
18	DIGITAL GRD
19	+5VDC
22	2 ⁻⁸
24	2 ⁻⁷
26	2 ⁻⁶
28	2 ⁻⁵
30	2 ⁻⁴
32	2 ⁻³
34	2 ⁻²
36	2 ⁻¹
37	+15VDC
38	ANALOG GRD
39	-15VDC
42	BIPOLAR
46	ANALOG IN NO.1
47	NO CONNECTION
48	ANALOG IN NO.2
72	ANALOG GRD

BA81

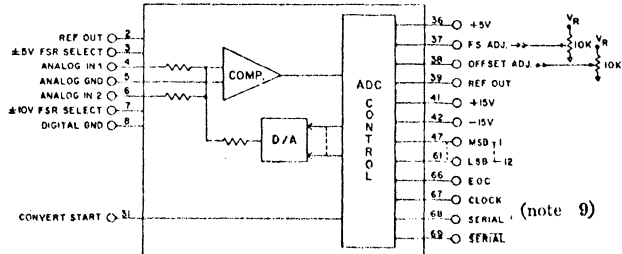


PIN	FUNCTION
1	BIPOLAR
4	BIT 1 (2 ⁻¹)
7	BIT 2 (2 ⁻²)
10	BIT 3 (2 ⁻³)
13	BIT 4 (2 ⁻⁴)
16	BIT 5 (2 ⁻⁵)
18	BIT 6 (2 ⁻⁶)
20	BIT 7 (2 ⁻⁷)
22	BIT 8 (2 ⁻⁸)
24	BIT 9 (2 ⁻⁹)
26	BIT 10 (2 ⁻¹⁰)
28	BIT 11 (2 ⁻¹¹)
30	BIT 12 (2 ⁻¹²)
34	STROBE
36	GAIN
37	+15 VDC
38	ANALOG GRD
39	ANALOG GRD
41	-15 VDC
43	+5 VDC
45	LOGIC GRD
46	LOGIC GRD
47	RESOLUTION CONTROL
51	STATUS
69	INPUT
70	OFFSET
72	ANALOG GRD

BA82



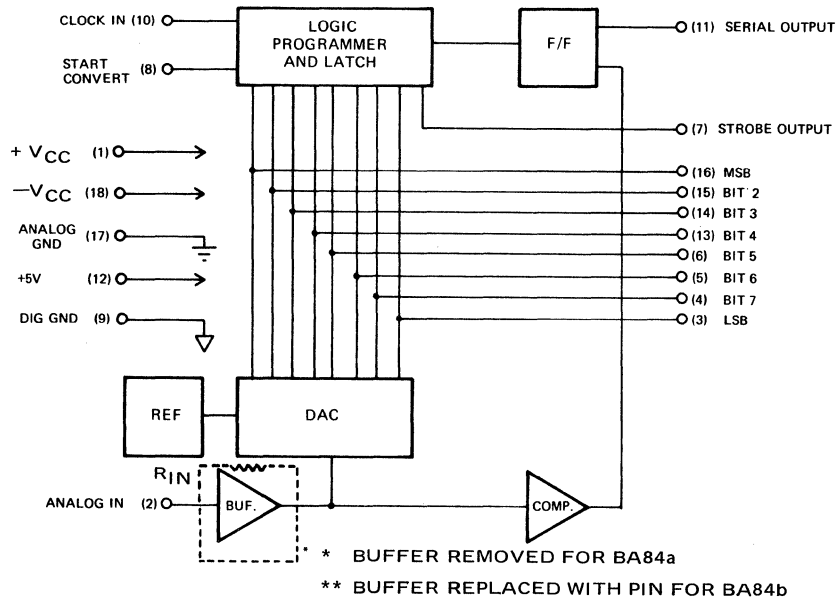
BA83



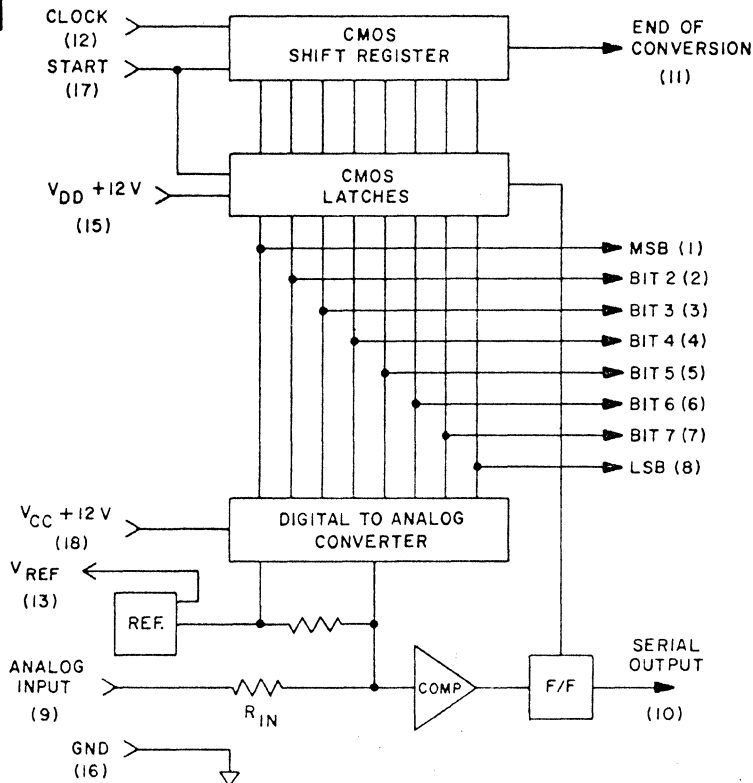
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

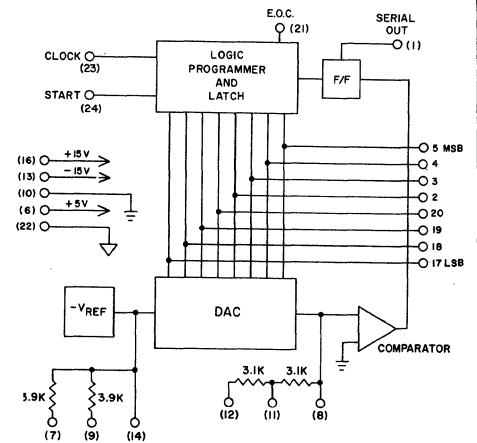
BA84



BA85



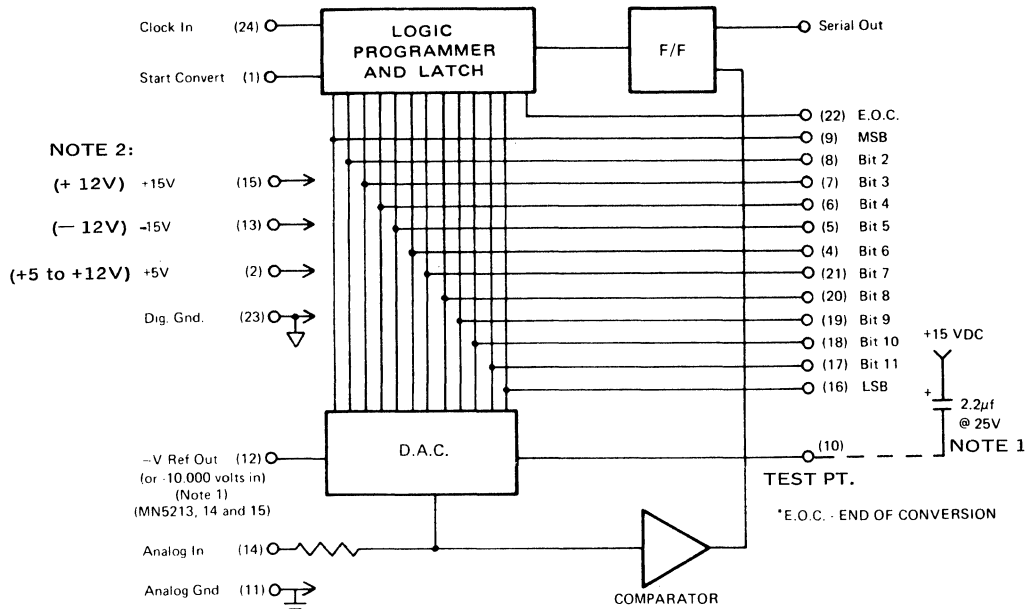
BA86



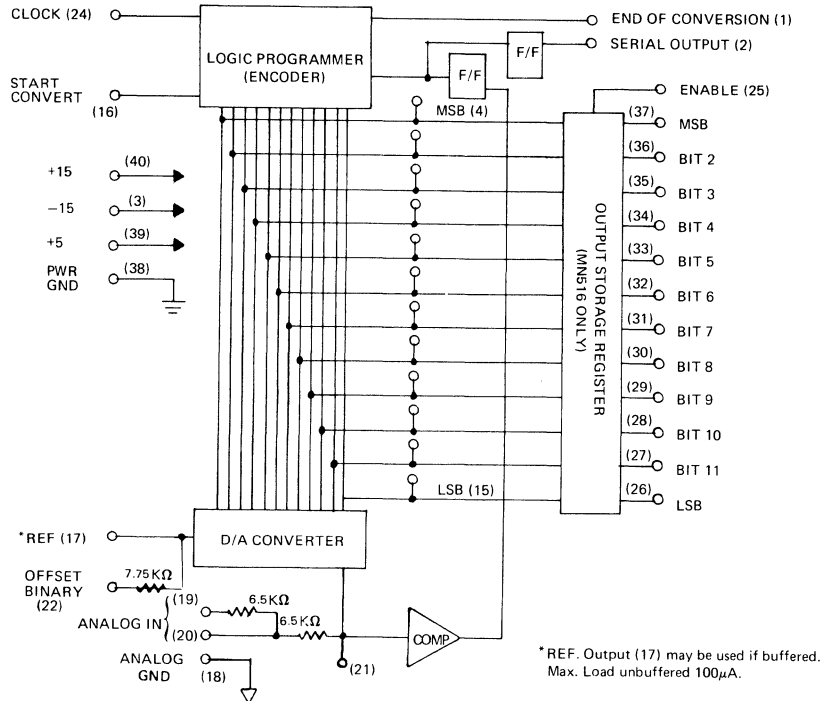
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

BA87



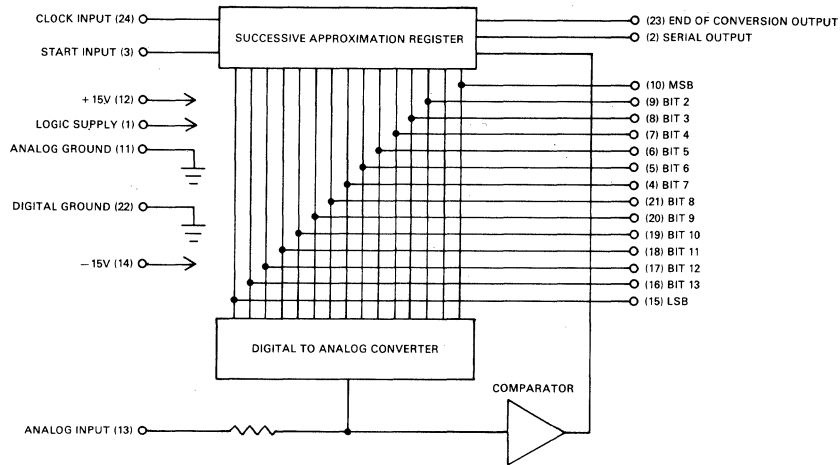
BA88



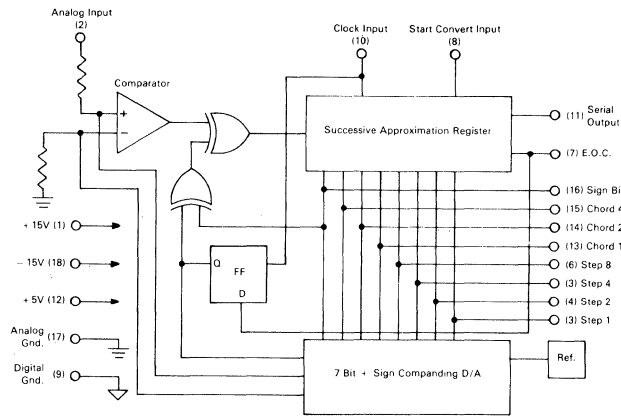
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

BA89



BA90



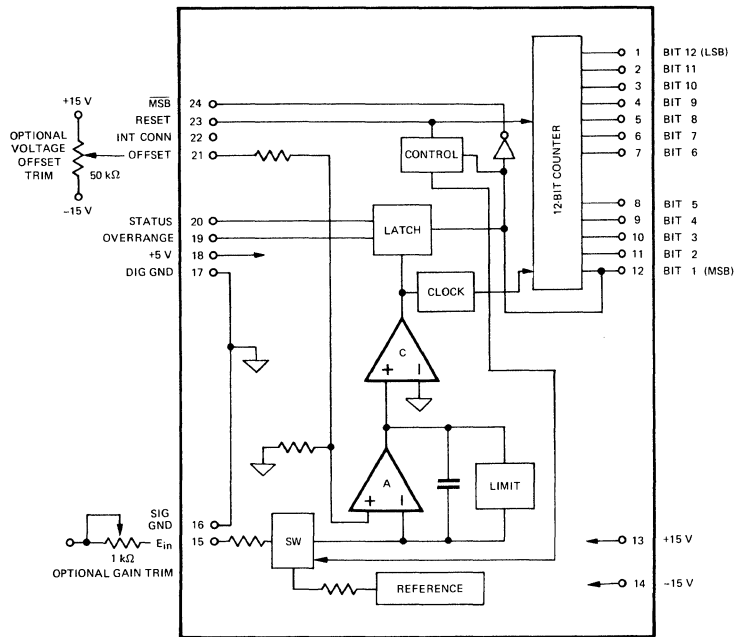
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

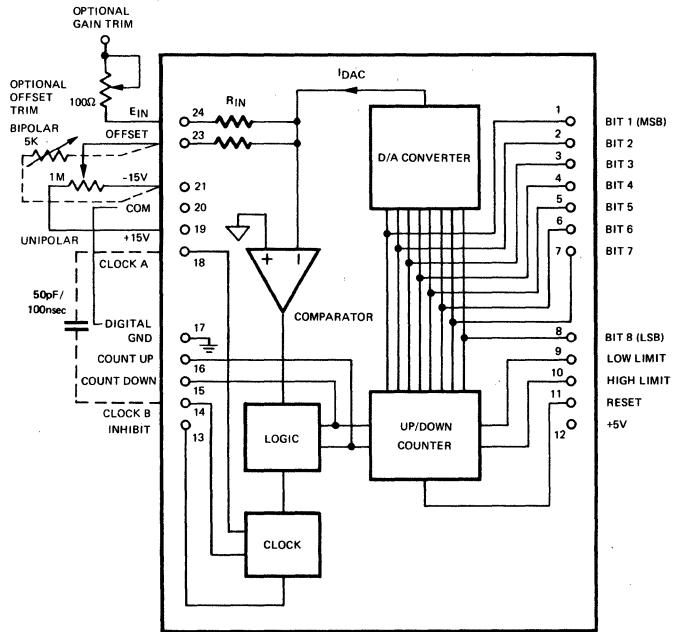
BA91

PIN	FUNCTION	PIN	FUNCTION
1	GND.	41	+5V POWER SUPPLY
2	GND.	42	+5V POWER SUPPLY
3	-12V POWER SUPPLY	43	+12V POWER SUPPLY
4	-12V POWER SUPPLY	44	+12V POWER SUPPLY
5	COSINE CH. 0 LOW	45	N/C
6	HIGH	46	N/C
7	SINE CH. 0 HIGH	47	MSB
8	LOW	48	BIT 2
9	COSINE CH. 1 LOW	49	BIT 3
10	HIGH	50	BIT 4
11	SINE CH. 1 HIGH	51	BIT 5
12	LOW	52	BIT 6
13	COSINE CH. 2 LOW	53	BIT 7
14	HIGH	54	BIT 8
15	SINE CH. 2 HIGH	55	BIT 9
16	LOW	56	BIT 10
17	COSINE CH. 3 LOW	57	BIT 11
18	HIGH	58	BIT 12
19	SINE CH. 3 HIGH	59	BIT 13
20	LOW	60	BIT 14 LSB
21	COSINE CH. 4 LOW	61	N/C
22	HIGH	62	CHANNEL ADDRESS INPUT LSB (1)
23	SINE CH. 4 HIGH	63	CHANNEL ADDRESS INPUT BIT 2 (2)
24	LOW	64	CHANNEL ADDRESS INPUT MSB (4)
25	COSINE CH. 5 LOW	65	CHANNEL ADDRESS OUTPUT MSB (4)
26	HIGH	66	CHANNEL ADDRESS OUTPUT BIT 2 (2)
27	SINE CH. 5 HIGH	67	CHANNEL ADDRESS OUTPUT LSB (1)
28	LOW	68	N/C
29	COSINE CH. 6 LOW	69	N/C
30	HIGH	70	CLEAR INPUT
31	SINE CH. 6 HIGH	71	STROBE OUTPUT
32	LOW	72	LOAD INPUT
33	COSINE CH. 7 LOW	73	RESET INPUT
34	HIGH	74	ENABLE OUTPUT
35	SINE CH. 7 HIGH	75	INTERRUPT INPUT
36	LOW	76	N/C
37	N/C	77	N/C
38	REFERENCE GND.	78	N/C
39	HIGH	79	N/C
40	-5V POWER SUPPLY	80	N/C

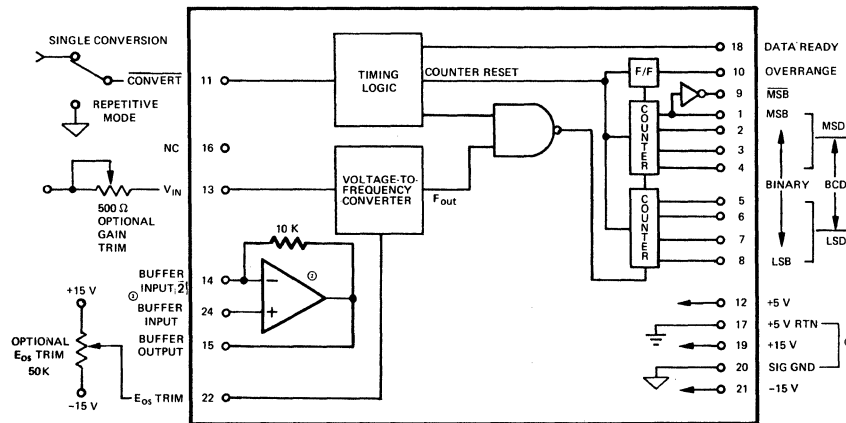
BA92



BA93



BA94



NOTE: USE CERMET POTENTIOMETERS

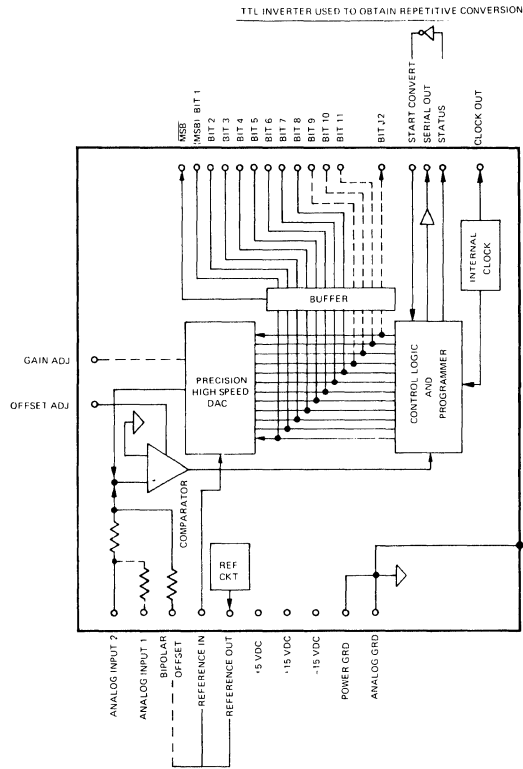
⊙ +5 VOLT RETURN AND DIGITAL GROUND MUST BE EXTERNALLY CONNECTED

⊙ ON BUFFERED UNITS ONLY (MODELS 4116-10 AND 4117-10)

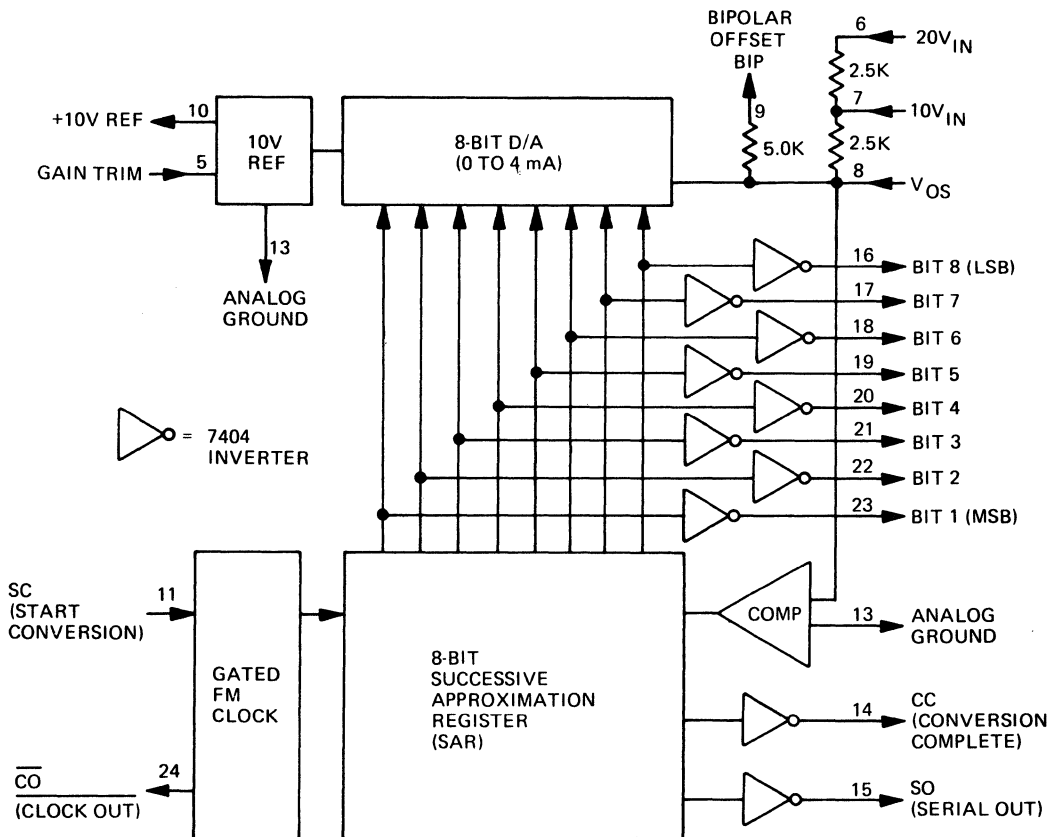
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

BA95



BA96



27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

BA97

PIN	FUNCTION	PIN	FUNCTION
1	GAIN ADJ	35	CLK IN
2	ANA IN	36	CLK OUT
3	ANA GND	37	CLK IN H
4	BUFFER OUT	43	STATUS
5	BIPOLAR	48	BIT 12 (LSB)
6	UNIPOLAR	50	BIT 11
19	BIPOLAR RESET	52	BIT 10
20	COMP IN	54	BIT 9
22	REF OUT	56	BIT 8
23	COMP ANA GND	58	BIT 7
25	- 15V	61	BIT 6
27	+ 15V	63	BIT 5
29	+ 5V	65	BIT 4
30	DIG GND	67	BIT 3
32	SERIAL OUT	70	BIT 1 (MSB)
33	STATUS	71	BIT 2
34	CONV CMD	72	BIT 1 (MSB)

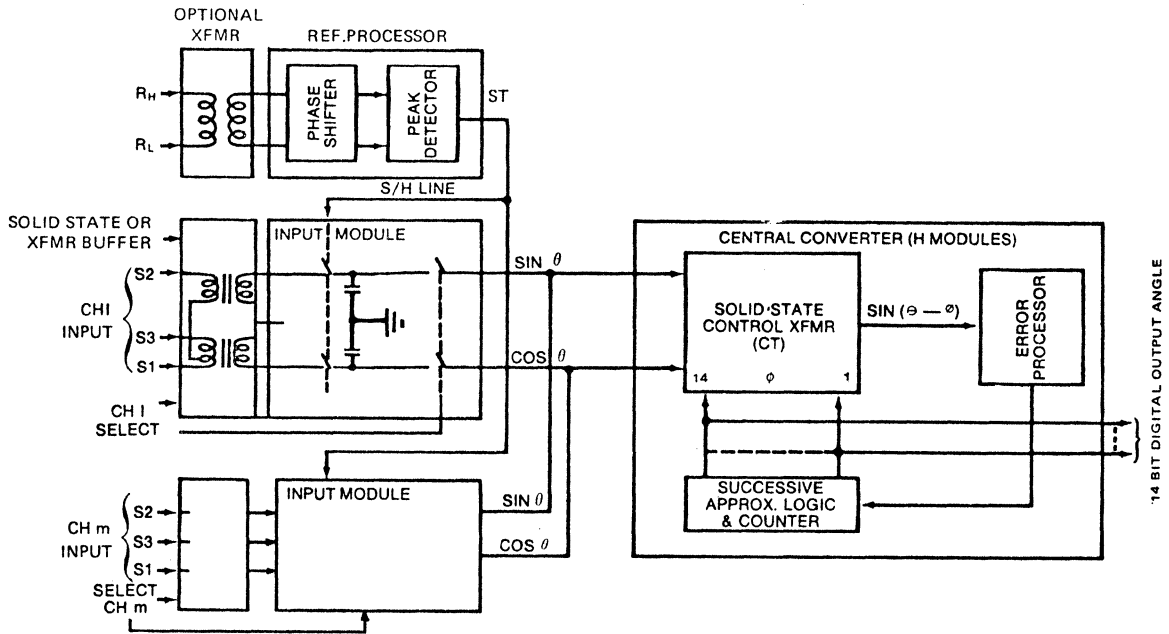
BA98

PIN	FUNCTION	PIN	FUNCTION
1	BIT 12	21	BIT 8
2		22	- 15VDC
3		23	- 15VDC
4	CLOCK OUT	24	BIT 6
5	BIT 11	25	BIT 5
6	BIT 10	26	+ 5VDC
7		27	+ 5VDC
8		28	- 5VDC
9		29	- 5VDC
10		30	BIT 4
11		31	BIT 3
12		32	BIT 2
13	DATA READY	33	BIT 1 (MSB)
14	+ 15VDC	34	START CONV IN
15	+ 15 VDC	35	MSB
16	GND	36	DATA READY (DELAYED)
17	GND	37	
18	GND	38	
19	GND	39	ANA RETURN (SHIELD)
20	BIT 7	40	ANA IN
		41	ANA RETURN (SHIELD)

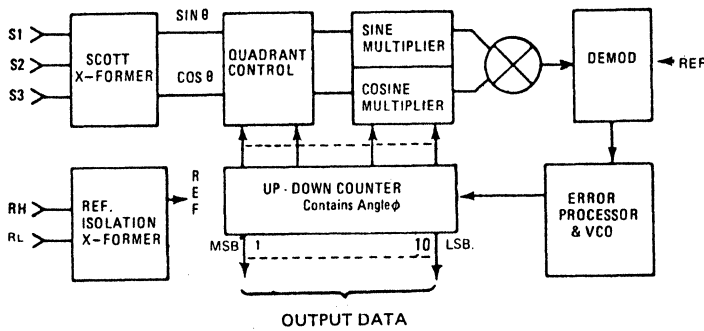
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

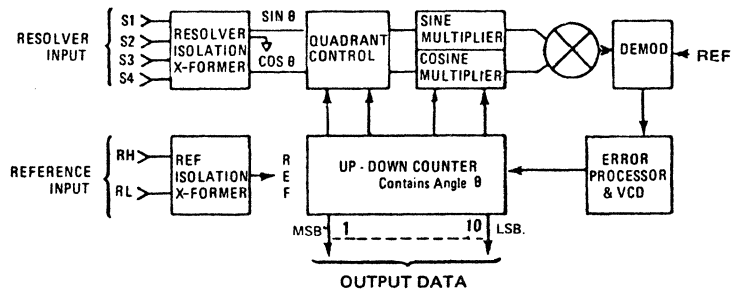
BA100



BA103



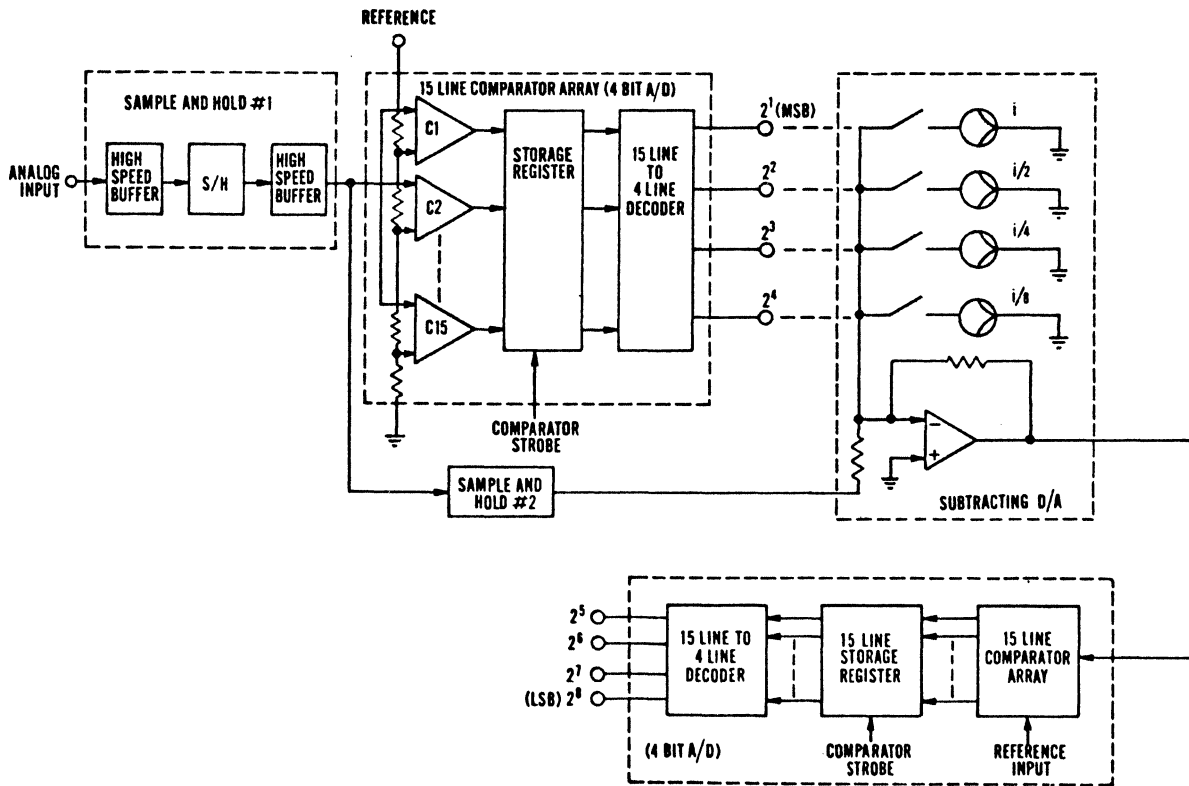
BA104



27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

BA105



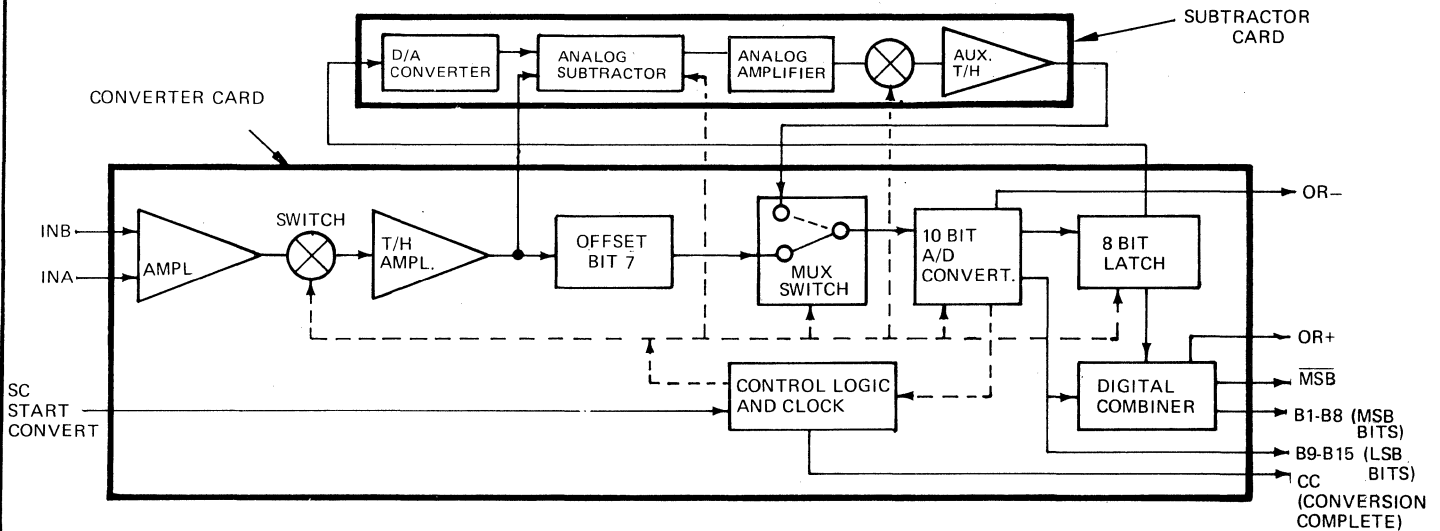
Connector Pin Signal
1, 2, 3, 4, A Power Ground

13	+5 volt in
D	+15 volt in
L	-15 volt in
H	Analog in
F	Analog return
19	Trigger in
20	Data ready
R	2 ¹ out
S	2 ² out
T	2 ³ out
U	2 ⁴ out
V	2 ⁵ out
W	2 ⁶ out
X	2 ⁷ out
Y	2 ⁸ out
21	Output Register Strobe
22	Test mode
J	Reference Out Lo
K	Reference Out Hi

27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

BA106



SUBTRACTOR CARD

CONVERTER CARD

PIN	DESIG	FUNCTION	PIN	DESIG	FUNCTION
1	AUX T/H OUT	Output from Aux T/H	22	-15V	Card Power Interconnection
2	AUX T/H SWITCH	Pulse In from Control Logic	23		
3			24	+10V Ref.	Reference Out
4			25	-15V	External Power In
5			26	+5V	External Power In and Card Interconnection
6			27		
7			28	+15V	External Power In
8			29		
9			30	AG	External Analog GND and Card Interconnection
10			31	AG	Analog GND and Card Interconnection
11			32		
12			33		
13			34	A5	Bit In
14			35	A1	MSB Bit In
15	+15V	Card Power Interconnection	36	A6	Bit In
16	Subtr. IN	Input from T/H	37	A2	Bit In
17			38	A7	Bit In
18	PG	External Power GND and Card Interconnection	39	A3	Bit In
19			40	A8	Bit In
20			41	A4	Bit In
21					

PIN	DESIG	FUNCTION	PIN	DESIG	FUNCTION
1	A1	MSB Bit Out	22	-15V	Power In Transfer
2	B4	Bit Out	23	B12	Bit Out
3	OR+	+Over Range Flag	24	B13	Bit Out
4	A2	Bit Out	25	B9	Bit Out
5	B1	MSB Bit Out	26	+5V	Power In Transfer
6	A3	Bit Out	27	MSB	MSB Bit Out
7	B2	Bit Out	28	B14	Bit Out
8	A4	Bit Out	29	B15	LSB Bit Out
9	B3	Bit Out	30	OR-	-Over Range Flag
10	B5	Bit Out	31	T/H OUT	Output to Subtractor
11	A5	Bit Out	32	AG	Analog GND Transfer
12	A6	Bit Out	33	+In	T/H ANA Input
13	B6	Bit Out	34	AG	Analog GND Transfer
14	A8	LSB Bit Out	35	Remote Sense	T/H Feedback
15	+15V	Power In Transfer	36	-In	T/H ANA Input
16	B8	Bit Out	37		
17	A7	Bit Out	38	MUX In	Input from AUX T/H
18	PG	Power GND Transfer	39	AUX T/H Control Pulse	Pulse Out to Control AUX T/H
19	B7	Bit Out	40	CC	Conversion Complete (Out)
20	B10	Bit Out	41	SC	Start Conversion (In)
21	B11	Bit Out			

NOTES:

Bits A1-A8 from first conversion are not system output.
Bits B1-B15 and MSB are final digital outputs.

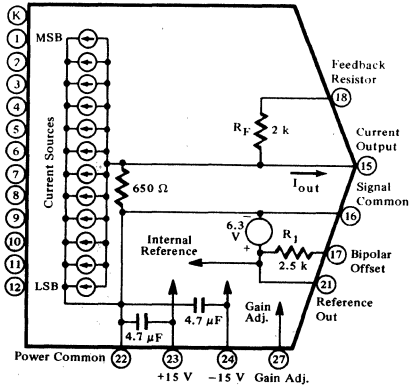
NOTES:

See Card Interconnect Diagram and Notes regarding power and ground connections.

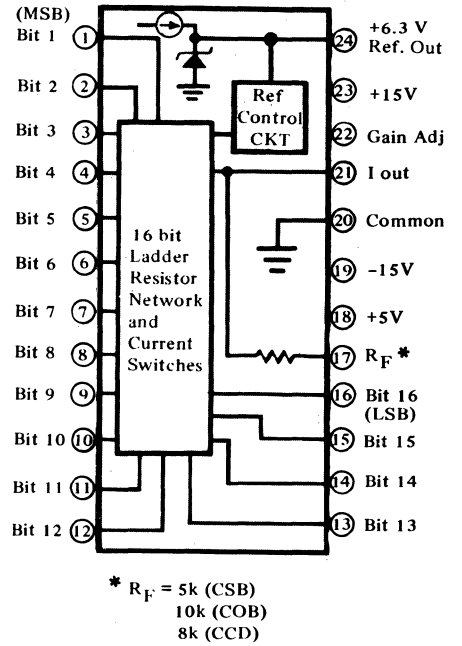
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

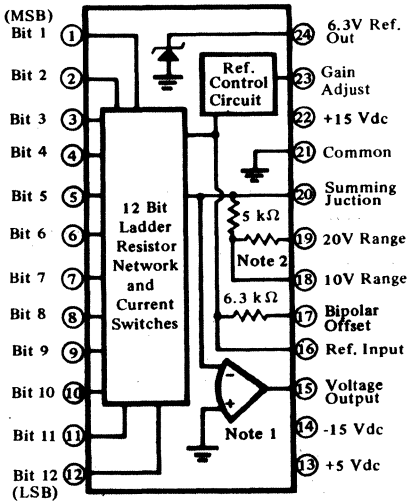
BB5



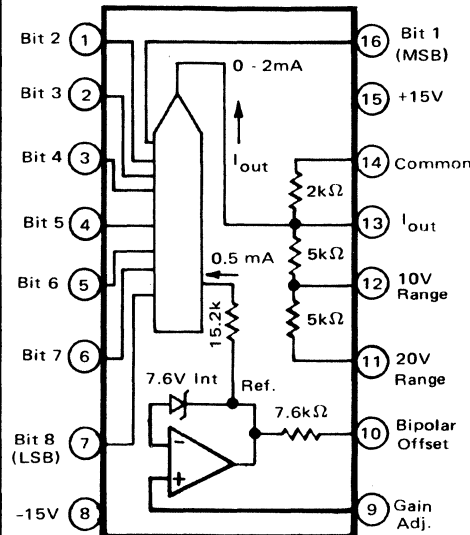
BB6



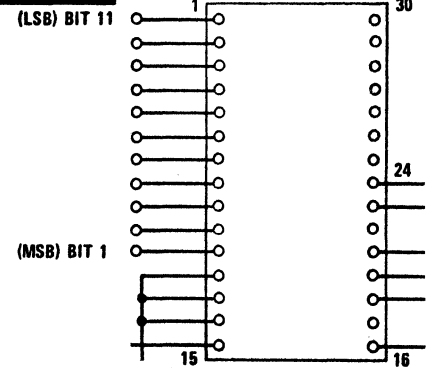
BB7



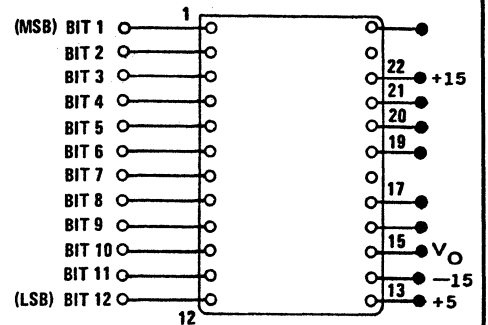
BB8



BB9



BB10

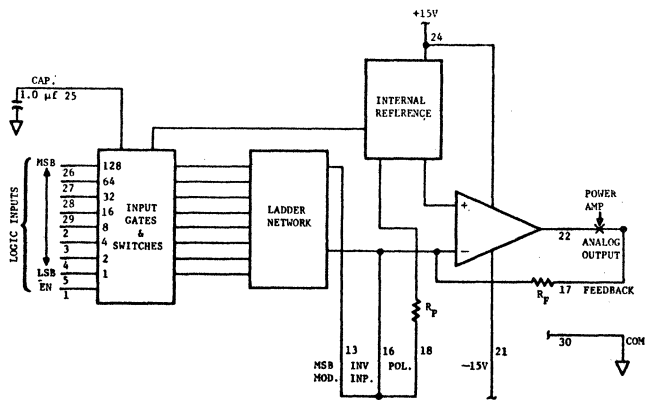


NOTE 1: AMPLIFIER NOT INCLUDED IN CURRENT OUTPUT MODELS
NOTE 2: 3k Ω FOR COMPLEMENTARY BCD MODELS
NOTE 3: 5k Ω FOR COMPLEMENTARY BINARY MODELS

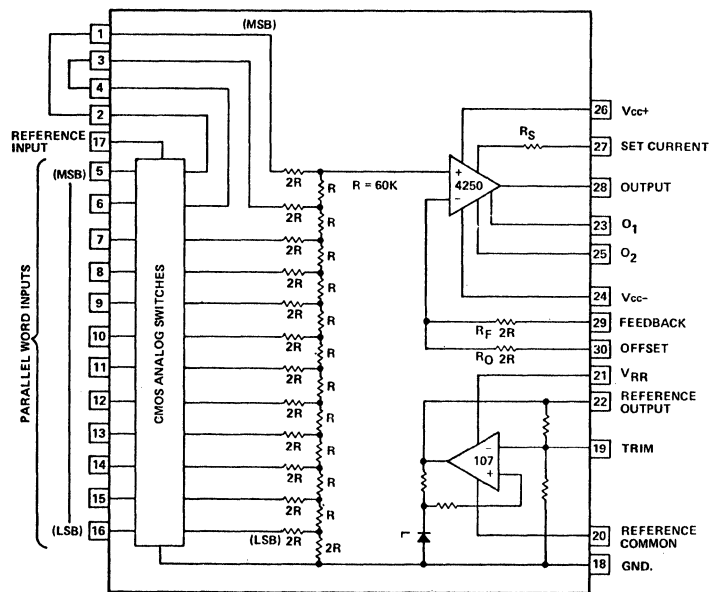
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

BB13



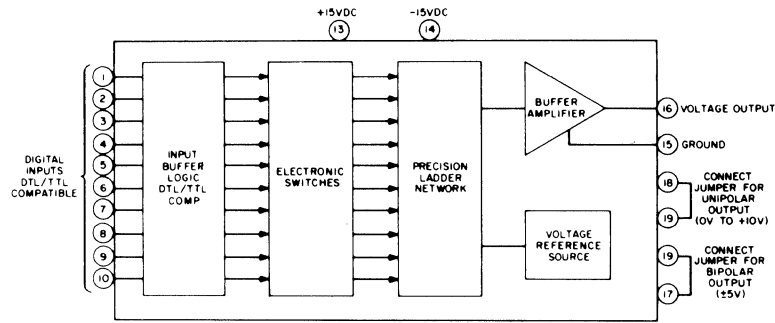
BB14



27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

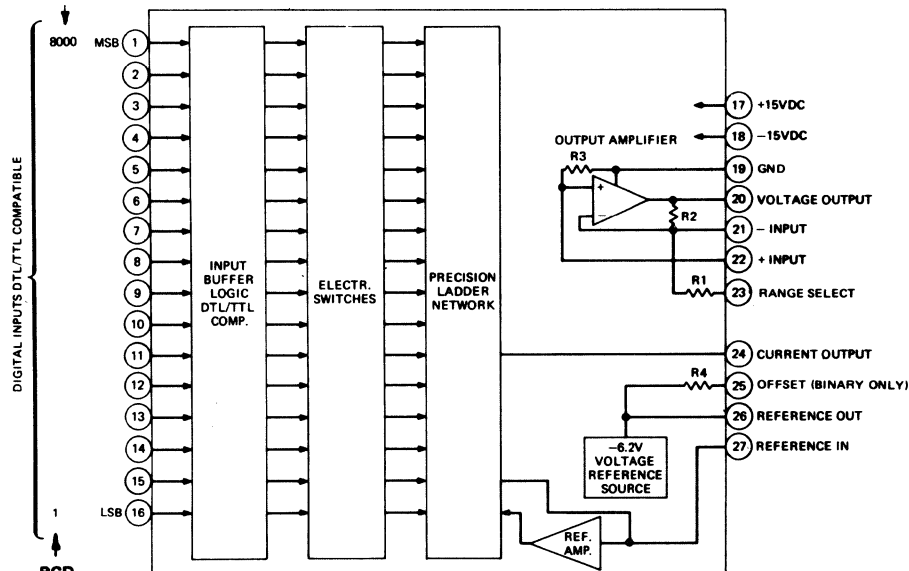
BB15



PIN	BB15,g	BB15a,h	BB15b	BB15c	BB15d	BB15e	BB15f
1	BIT 1 (MSB)	BIT 800 (MSB)	BIT 1 (MSB)	BIT 800 (MSB)	BIT 1 (MSB)	BIT 800 (MSB)	BIT 1 (MSB)
2	BIT 2	BIT 400	BIT 2	BIT 400	BIT 2	BIT 400	BIT 2
3	BIT 3	BIT 200	BIT 3	BIT 200	BIT 3	BIT 200	BIT 3
4	BIT 4	BIT 100	BIT 4	BIT 100	BIT 4	BIT 100	BIT 4
5	BIT 5	BIT 80	BIT 5	BIT 80	BIT 5	BIT 80	BIT 5
6	BIT 6	BIT 40	BIT 6	BIT 40	BIT 6	BIT 40	BIT 6
7	BIT 7	BIT 20	BIT 7	BIT 20	BIT 7	BIT 20	BIT 7
8	BIT 8 (LSB)	BIT 10 (LSB)	BIT 8 (LSB)	BIT 10 (LSB)	BIT 8	BIT 10	BIT 8
9	+15V POWER INPUT	+15V POWER INPUT	+15V POWER INPUT	+15V POWER INPUT	BIT 9	BIT 8	BIT 9
10	FULL SCALE TRIM (2)	FULL SCALE TRIM (2)	-15V POWER INPUT	-15V POWER INPUT	BIT 10 (LSB)	BIT 4	BIT 10
11	COMMON GROUND	COMMON GROUND	COMMON GROUND	COMMON GROUND	NOT USED	BIT 2	BIT 11
12	ANALOG OUTPUT	ANALOG OUTPUT	ANALOG OUTPUT	ANALOG OUTPUT	NOT USED	BIT 1 (LSB)	BIT 12 (LSB)
13	NOT USED	NOT USED	- IN (SEE NOTE 1)	NOT USED	+15V POWER INPUT	+15V POWER INPUT	+15V POWER INPUT
14	NOT USED	NOT USED	+ IN (SEE NOTE 1)	NOT USED	-15V POWER INPUT	-15V POWER INPUT	-15V POWER INPUT
15	NOT USED	NOT USED	OFFSET (SEE NOTE 1)	NOT USED	COMMON GROUND	COMMON GROUND	COMMON GROUND
16	NOT USED	NOT USED	NO CONNECTION	NO CONNECTION	ANALOG OUTPUT	ANALOG OUTPUT	ANALOG OUTPUT
17	NOT USED	NOT USED	NOT USED	NOT USED	- IN (SEE NOTE 1)	NOT USED	- IN (SEE NOTE 1)
18	NOT USED	NOT USED	NOT USED	NOT USED	+ IN (SEE NOTE 1)	NOT USED	+ IN (SEE NOTE 1)
19	NOT USED	NOT USED	NOT USED	NOT USED	OFFSET (SEE NOTE 1)	NOT USED	OFFSET (SEE NOTE 1)
20	NOT USED	NOT USED	NOT USED	NOT USED	NO CONNECTION	NO CONNECTION	NO CONNECTION

NOTE 1: NOT USED ON CURRENT BB15b OUTPUT MODELS. NOTE 2: CONNECT PIN 10 OF DAC-9-8 BIR AND DAC-9-8 DIR ONLY TO -15V POWER ((BB15g,h).

BB16



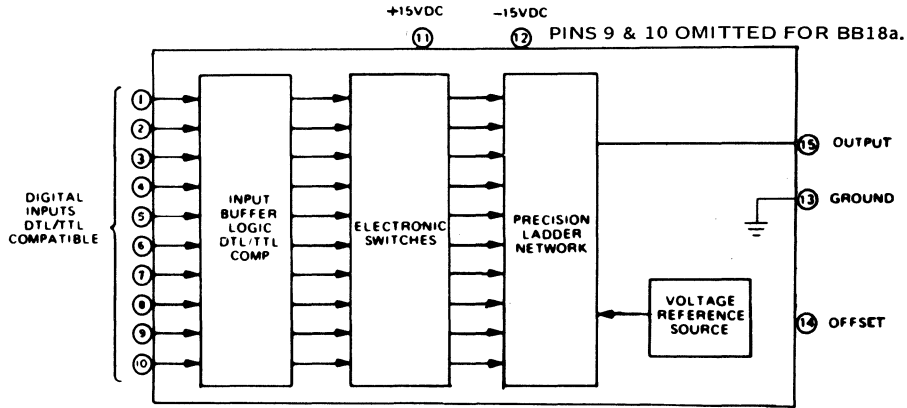
	R1	R2	R3	R4
BB16	555	5K	1555	6K
BB16a	889	8K	1552	NI

BCD CODING
BB16a
ONLY

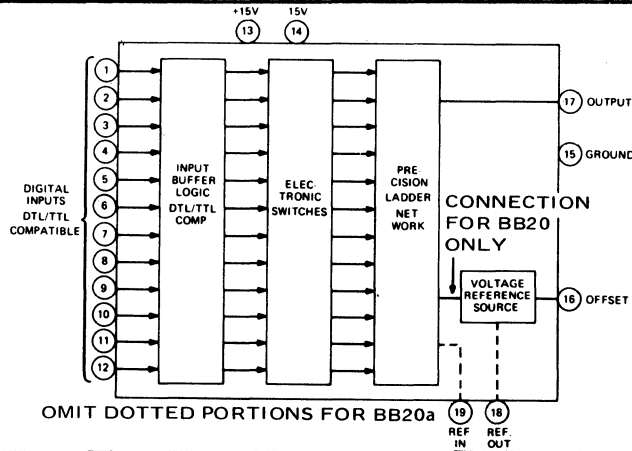
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

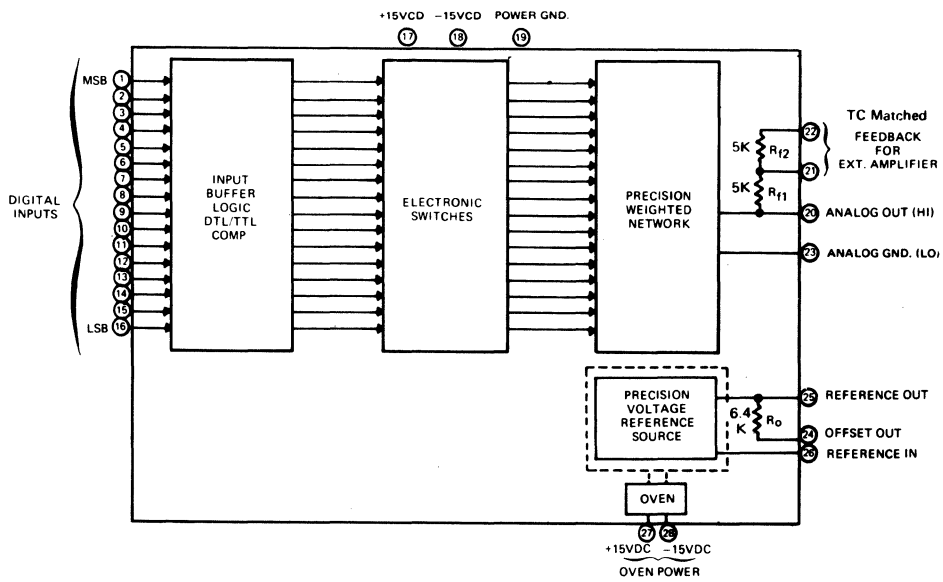
BB18



BB20



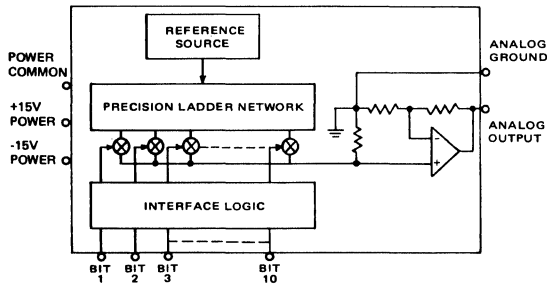
BB21



27. LOGIC/BLOCK DRAWINGS

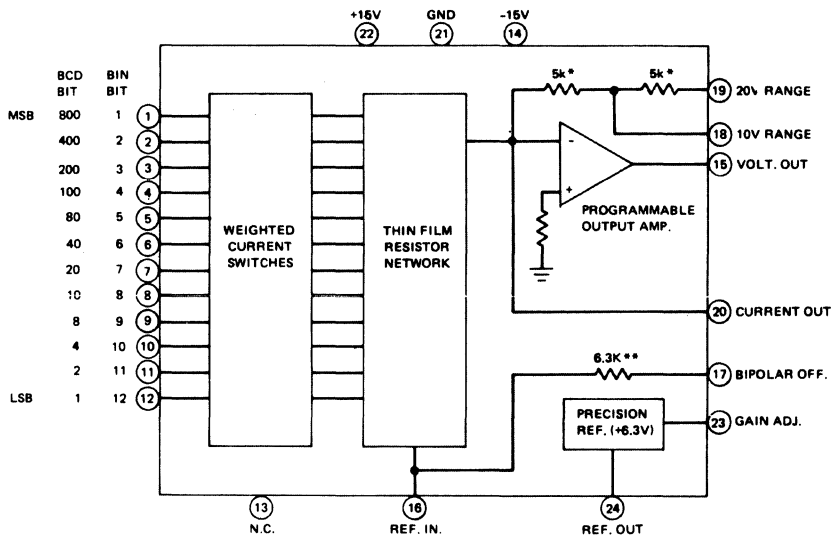
IN DRAWING NUMBER SEQUENCE

BB22



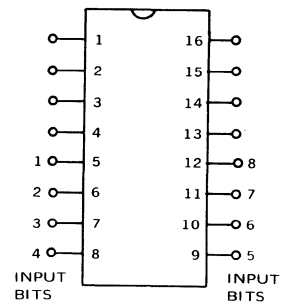
PIN	FUNCTION	PIN	FUNCTION
1	BIT 1 (MSB)	9	BIT 9
2	BIT 2	10	BIT 10
3	BIT 3	11	+15V POWER INPUT
4	BIT 4	12	-15V POWER INPUT
5	BIT 5	13	POWER COMMON
6	BIT 6	14	ANALOG OUTPUT
7	BIT 7	15	NO CONNECTION
8	BIT 8		

BB23



* FOR BB23a THESE RESISTORS ARE 4kΩ
 ** FOR BB23a THIS RESISTOR IS OPEN CIRCUIT

BB24



PIN	FUNCTION
1	RANGE CONTROL
2	GROUND
3	VEE
4	OUTPUT
5	BIT 1 IN (MSB)
6	BIT 2 IN
7	BIT 3 IN
8	BIT 4 IN
9	BIT 5 IN
10	BIT 6 IN
11	BIT 7 IN
12	BIT 8 IN (LSB)
13	Vcc
14	+ REFERENCE
15	- REFERENCE
16	COMPENSATION

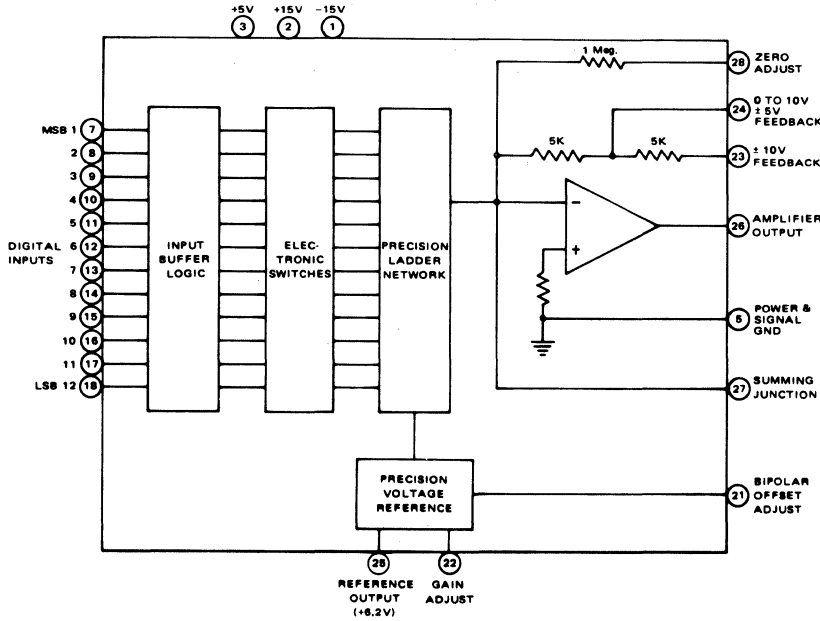
BB25

BB26

27. LOGIC/BLOCK DRAWINGS

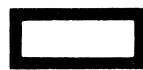
IN DRAWING NUMBER
SEQUENCE

BB27



PIN	FUNCTION
K	KEY
1	-15 Volt Power Input
2	+ 15 Volt Power Input
3	+ 5 Volt Power Input
4	No Connection (pin is omitted)
5	Power and Signal Ground
6	No Connection (pin is omitted)
7	Bit 1 (MSB)
8	Bit 2
9	Bit 3
10	Bit 4
11	Bit 5
12	Bit 6
13	Bit 7
14	Bit 8
15	Bit 9*
16	Bit 10*
17	Bit 11**
18	Bit 12**
19	No Connection (pin is omitted)
20	No Connection (pin is omitted)
21	Bipolar Offset
22	Full Scale Gain Adjust
23	± 10V Feedback
24	0 to +10V, ±5V Feedback
25	Reference Output
26	Amplifier Output
27	Summing Junction
28	Zero Adjust

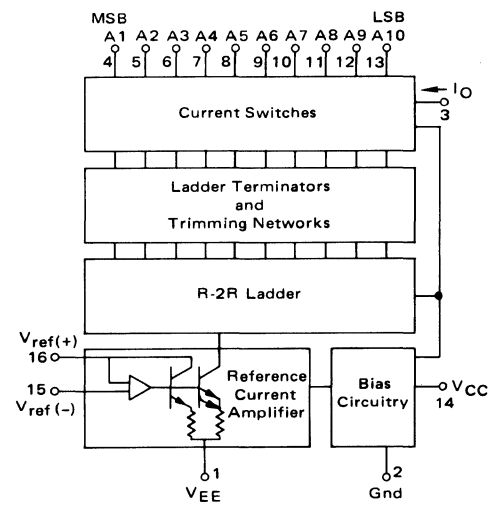
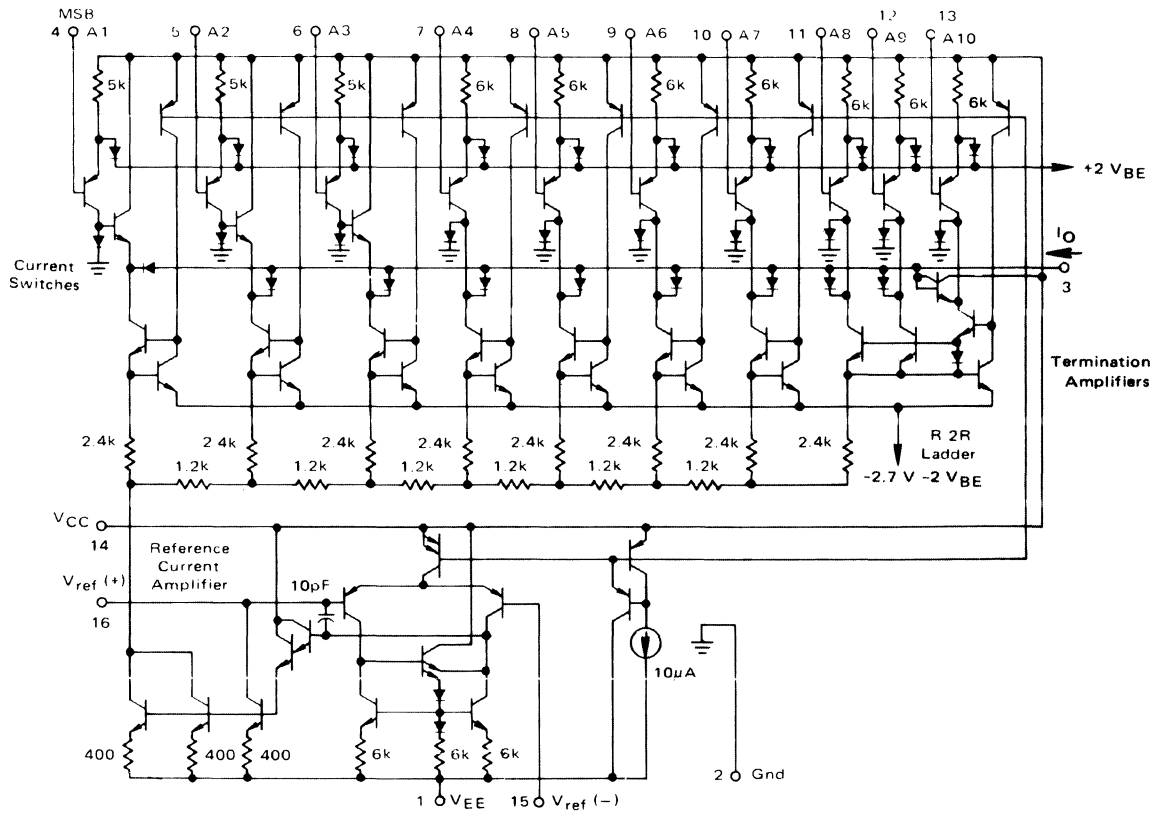
* OMITTED FOR BB27a
** OMITTED FOR BB27b



27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

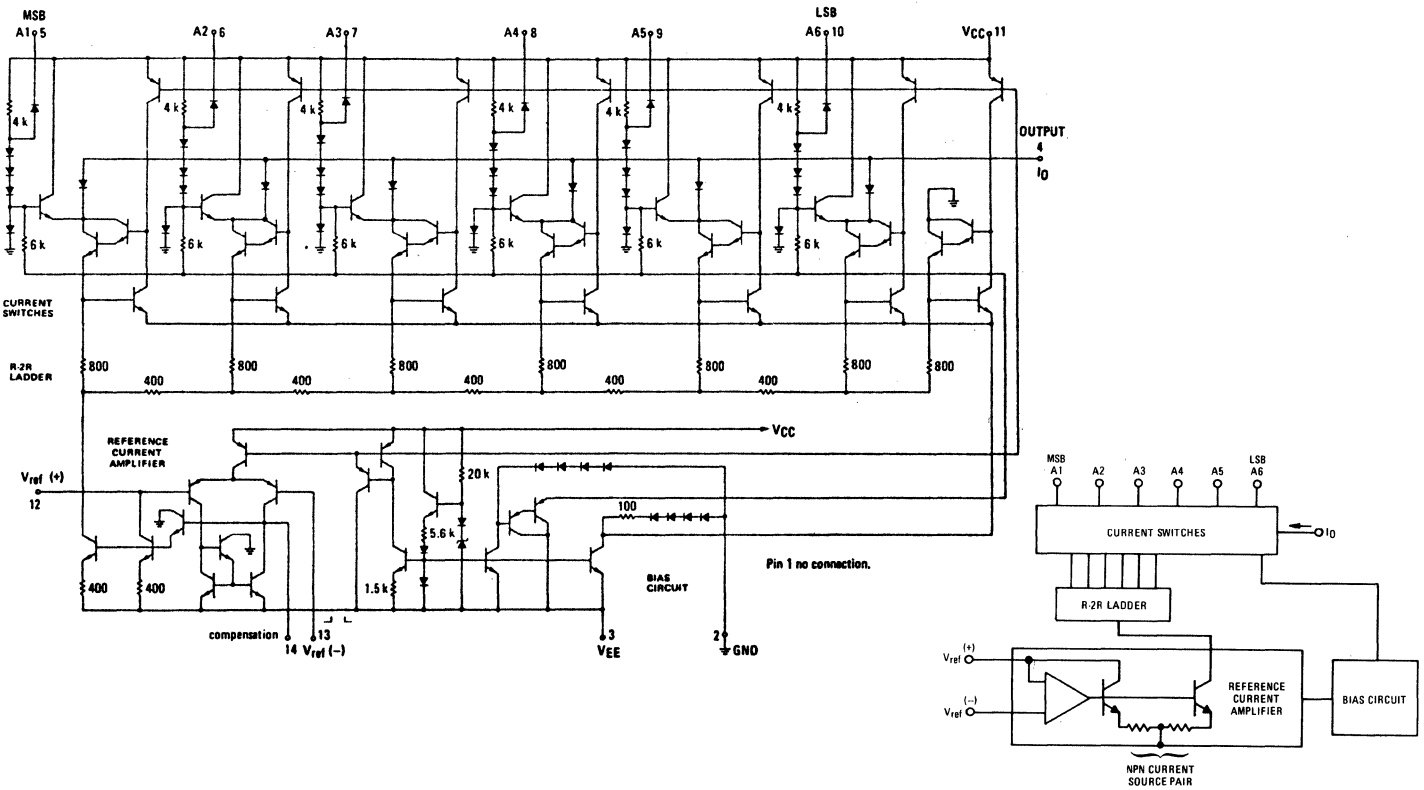
BB30



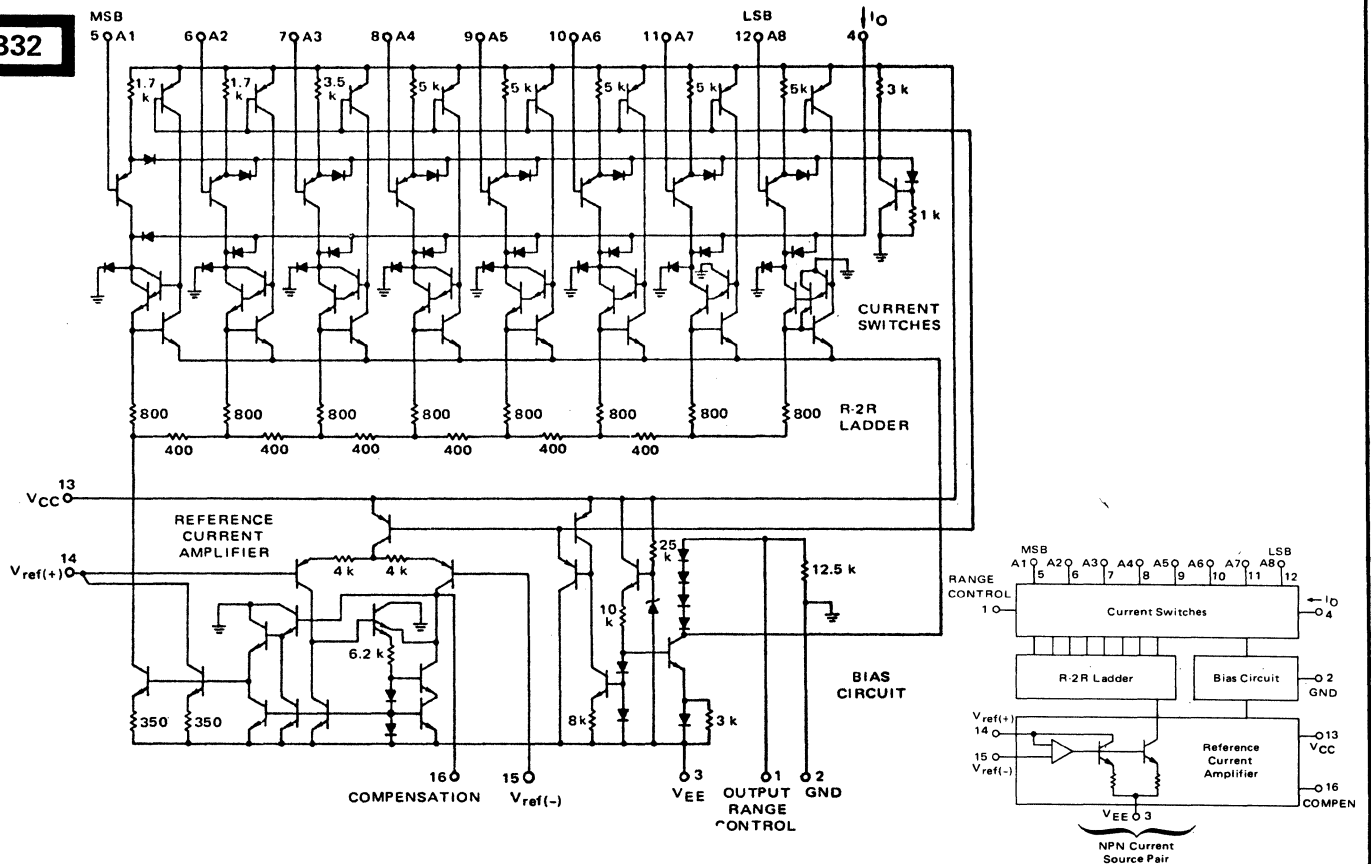
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

BB31



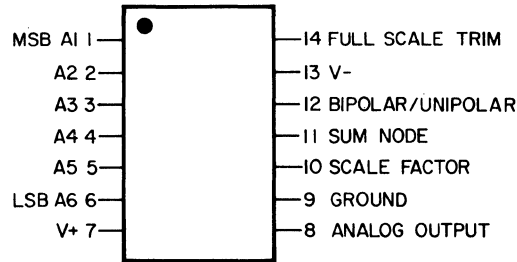
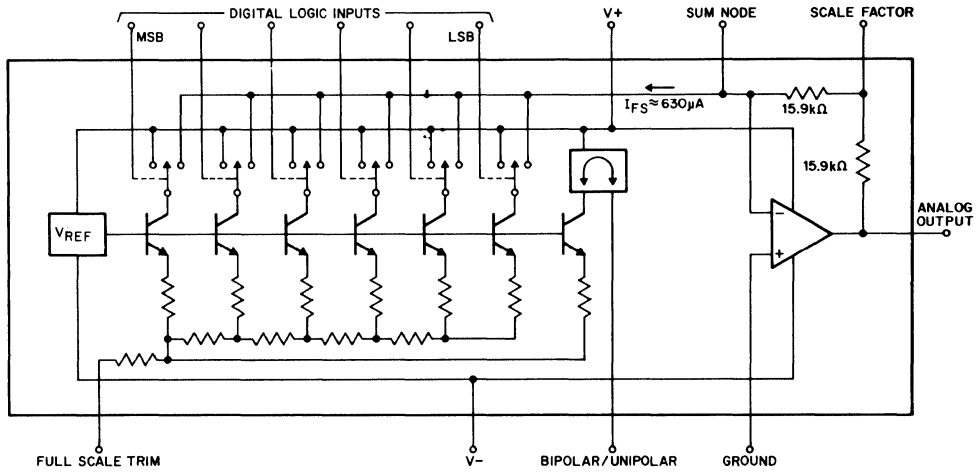
BB32



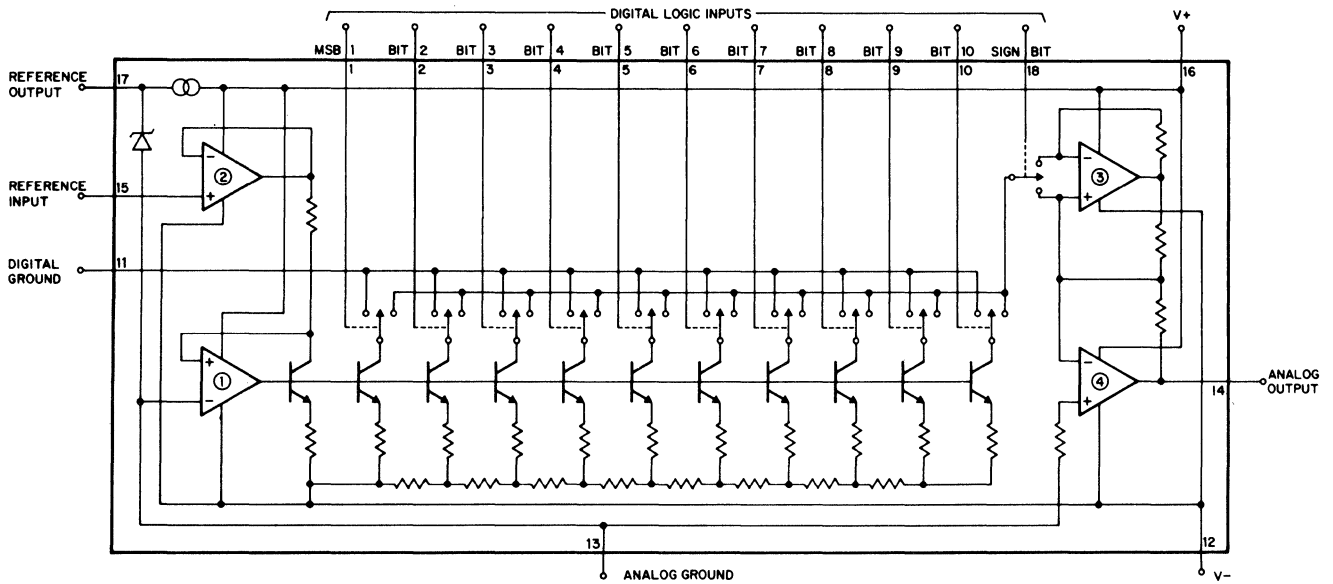
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

BB33



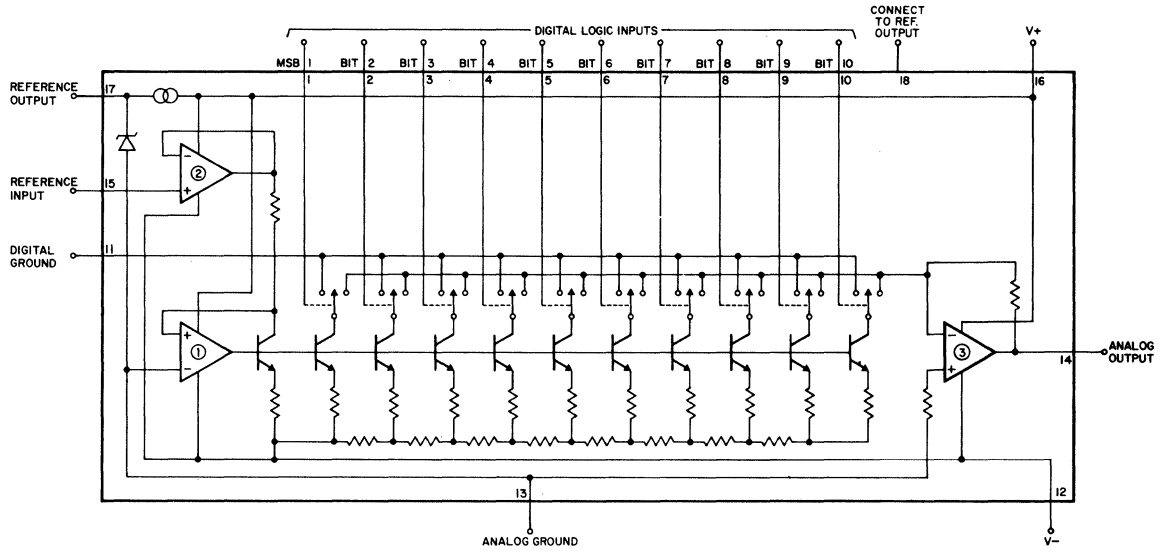
BB34



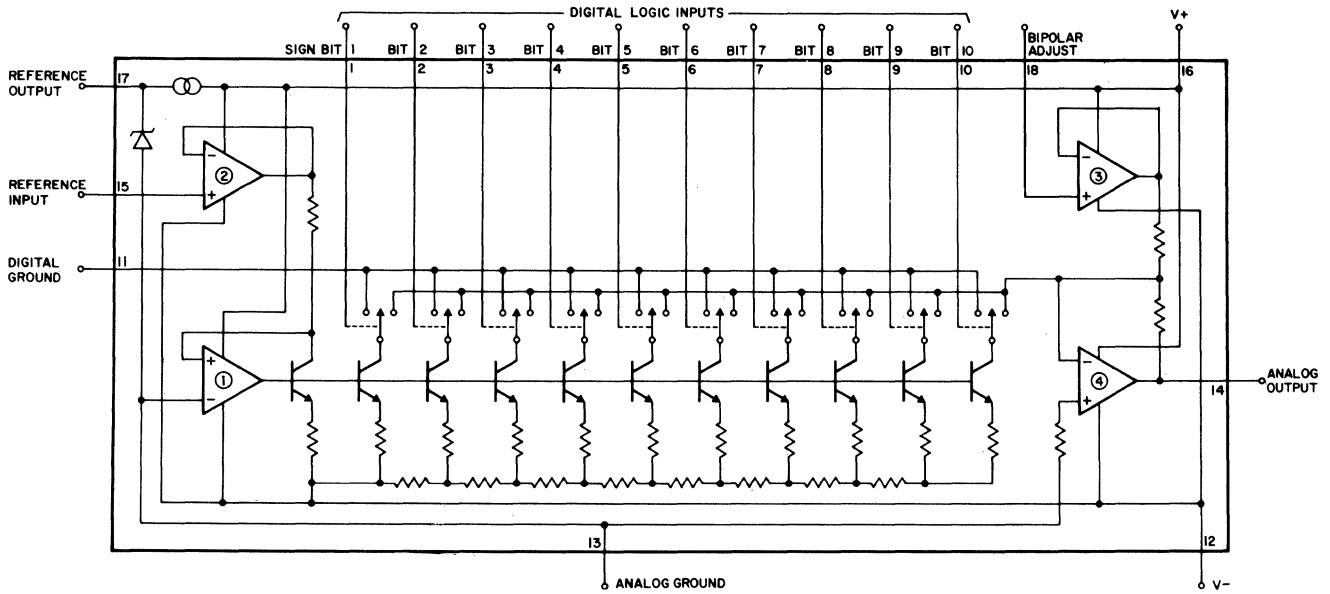
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

BB35



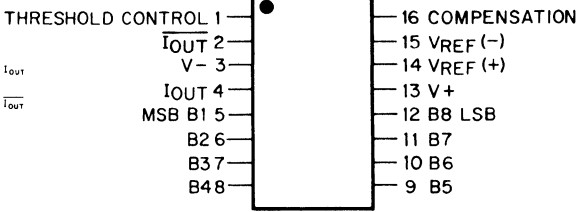
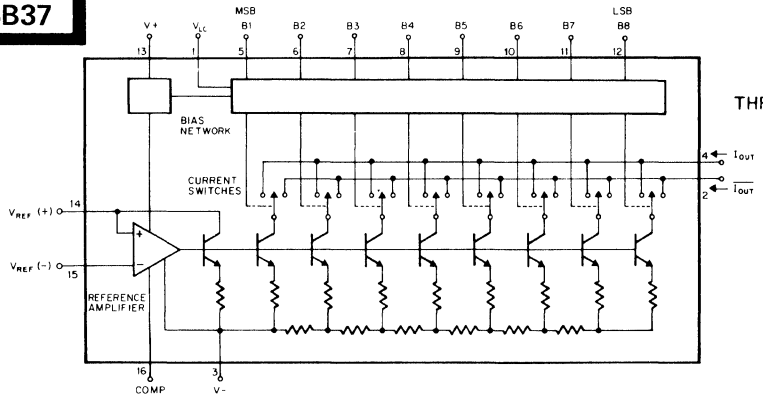
BB36



27. LOGIC/BLOCK DRAWINGS

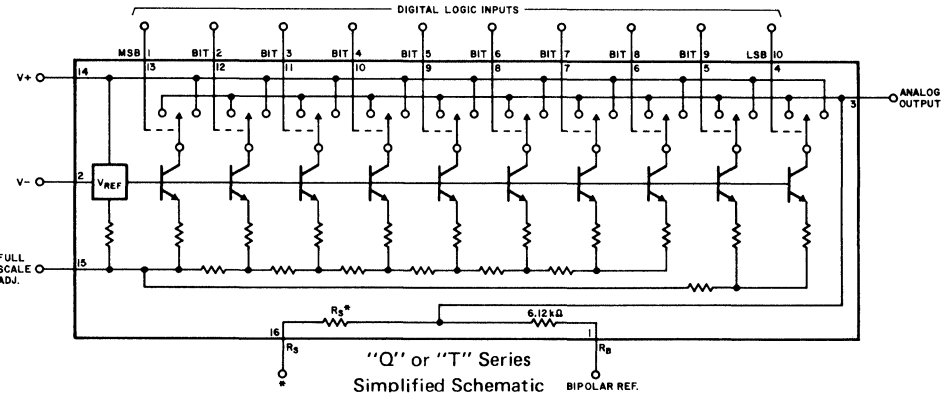
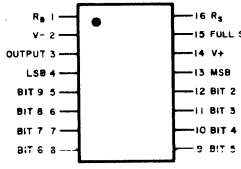
IN DRAWING NUMBER
SEQUENCE

BB37

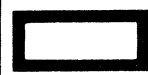
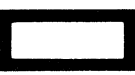
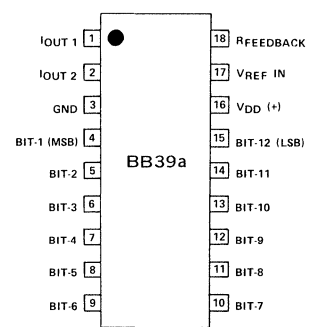
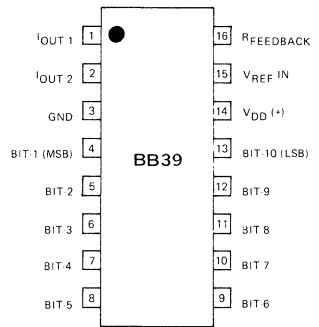
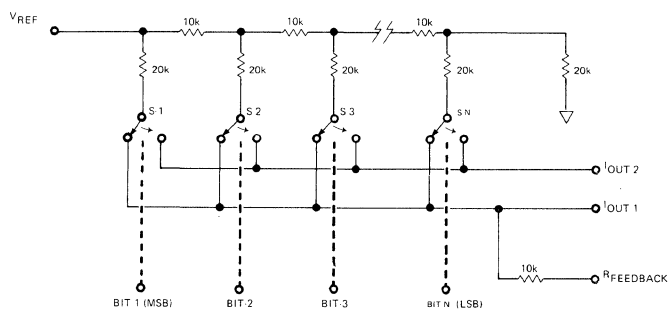


BB38

*For 10V or $\pm 5V$ Operation
 $R_S = 4.88\text{ k}\Omega$ (Package Q1, Q3, Q5, T1)
For 5V or $\pm 2.5V$ Operation,
 $R_S = 2.44\text{ k}\Omega$ (Package Q2, Q4 or T2)



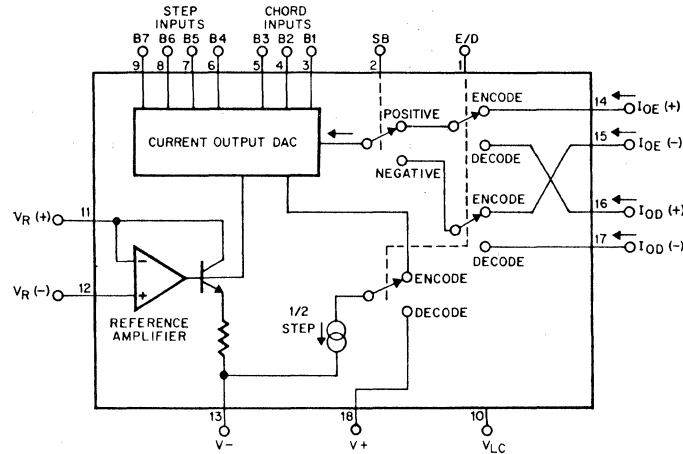
BB39



27. LOGIC/BLOCK DRAWINGS

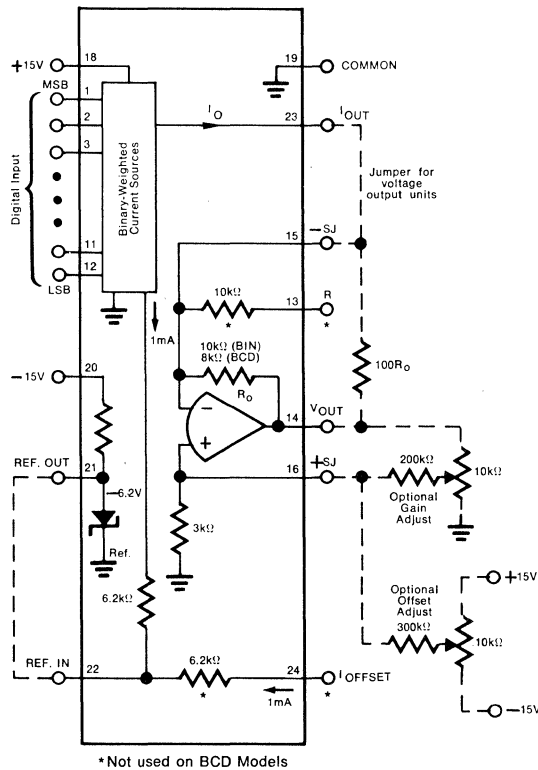
IN DRAWING NUMBER SEQUENCE

BB40



ENCODE/DECODE SELECT: 1 = ENCODE	1	E/D	V+	18	POSITIVE POWER SUPPLY
SIGN BIT INPUT: 1 = POSITIVE	2	SB	I _{OD} (-)	17	DECODE OUT: E/D SB = 00
MOST SIGNIFICANT CHORD BIT INPUT	3	B1	I _{OD} (+)	16	DECODE OUT: E/D SB = 01
SECOND CHORD BIT INPUT	4	B2	I _{OE} (-)	15	ENCODE OUT: E/D SB = 10
LEAST SIGNIFICANT CHORD BIT INPUT	5	B3	I _{OE} (+)	14	ENCODE OUT: E/D SB = 11
MOST SIGNIFICANT STEP BIT INPUT	6	B4	V-	13	NEGATIVE POWER SUPPLY
SECOND STEP BIT INPUT	7	B5	V _R (-)	12	NEGATIVE REFERENCE INPUT
THIRD STEP BIT INPUT	8	B6	V _R (+)	11	POSITIVE REFERENCE INPUT
LEAST SIGNIFICANT STEP BIT INPUT	9	B7	V _{LC}	10	THRESHOLD CONTROL

BB41



*Not used on BCD Models

BB42

PIN DESIGNATIONS	
K	Key
1	-15V
2	+15V
5	Common
7	Bit 1 (MSB)
9	Bit 2
11	Bit 3
13	Bit 4
14	Bit 5
15	Bit 6
16	Bit 7
18	Bit 8
19	-V out
20	Mode 1
21	Bit 9
22	Ref In
23	Bit 10
24	Bit 11
25	Bit 12 (LSB)
26	Output
27	Mode 2
28	Ref In
17	No Connection
6	No Pin

27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

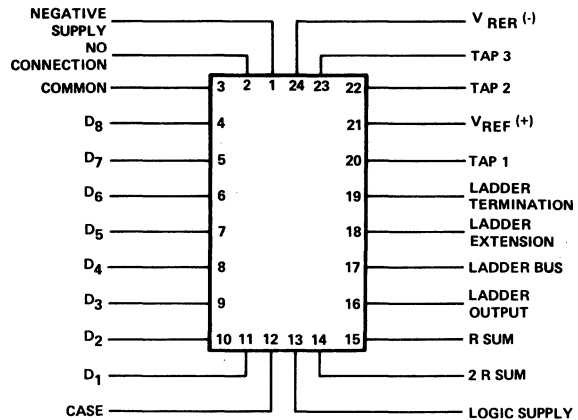
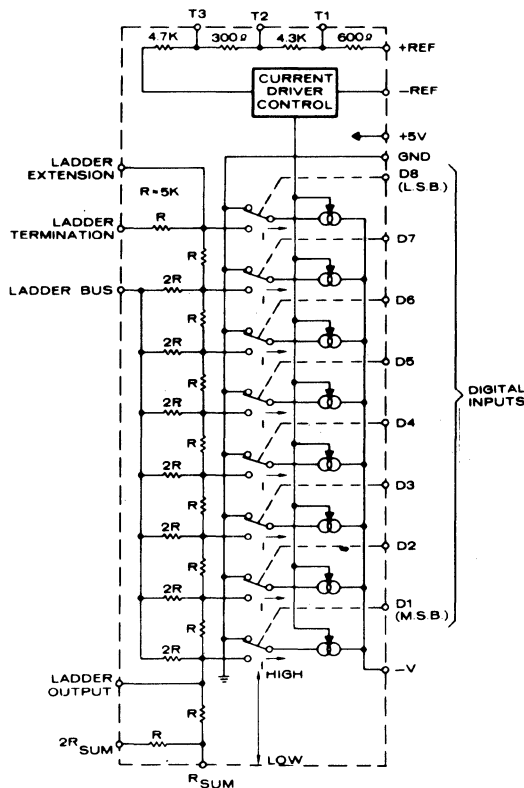
BB43

NOTE:

1. For Unipolar operation connect MODE (Pin 30) to COMMON (Pin 24).
2. For Bipolar operation connect MODE (Pin 30) to I_{OUT} (Pin 29).
3. MODE pin not available on 416-BCD or 418 BCD.
4. For current output use I_{OUT} (Pin 29).
5. For voltage output connect I_{OUT} (Pin 29) to SJ (Pin 31). Use V_{OUT} (Pin 27) for Models 414 and 416, and use V_{OUT} (Pin 32) for Model 418.
6. For 20V span, leave 10V RANGE (Pin 33) open. For 10V span, connect 10V RANGE (Pin 33) to Pin 27.
7. When using internal reference, connect REF OUT (Pin 19) to REF IN (Pin 20).

Pin 414	416	418	Pin 414	416	418
1. MSB	MSB	MSB	18. NC	NC	Sign Bit
2. Bit 2	Bit 2	Bit 2	19. Ref Out	Ref Out	Ref Out
3. Bit 3	Bit 3	Bit 3	20. Ref In	Ref In	Ref In
4. Bit 4	Bit 4	Bit 4	21. NC	NC	NC
5. NC	NC	Bit 5	22. Gain Adj	Gain Adj	Gain Adj
6. Bit 5	Bit 5	Bit 6	23. -15V	-15V	-15V
7. Bit 6	Bit 6	Bit 7	24. Common	Common	Common
8. Bit 7	Bit 7	Bit 8	25. +15V	+15V	+15V
9. Bit 8	Bit 8	Bit 9	26. Offset Adj	Offset Adj	Offset Adj
10. Bit 9	Bit 9	Bit 10	27. Vout	Vout	Vout
11. Bit 10	Bit 10	Bit 11	28. NC	NC	NC
12. Bit 11	Bit 11	Bit 12	29. Iout	Iout	Iout
13. Bit 12	Bit 12	Bit 13	30. Mode	Mode	NC
14. Bit 13	Bit 13	Bit 14	31. SJ	SJ	SJ
15. LSB	Bit 14	Bit 15	32. NC	NC	Vout
16. NC	Bit 15	Bit 16	33. 10V Range	10V Range	10V Range
17. NC	LSB	LSB			

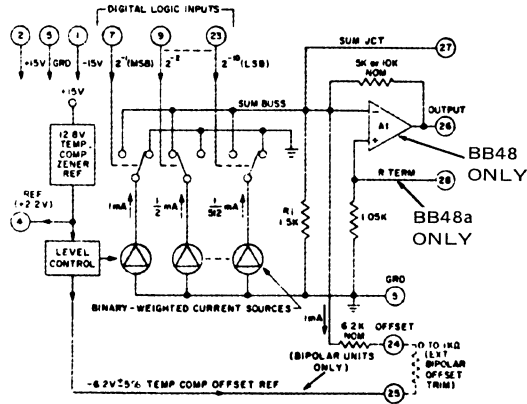
BB44



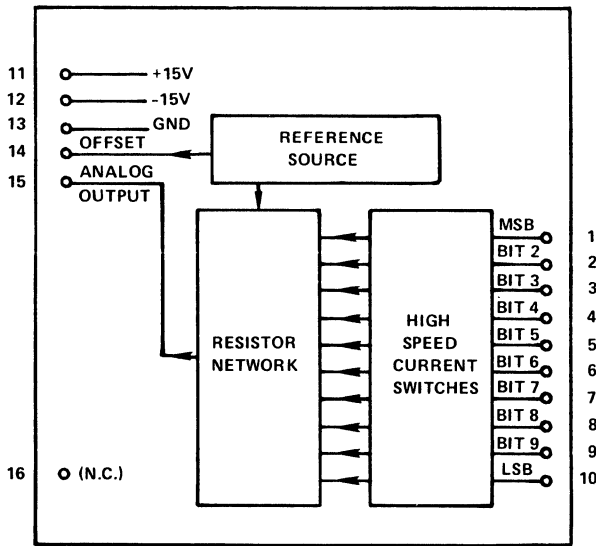
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

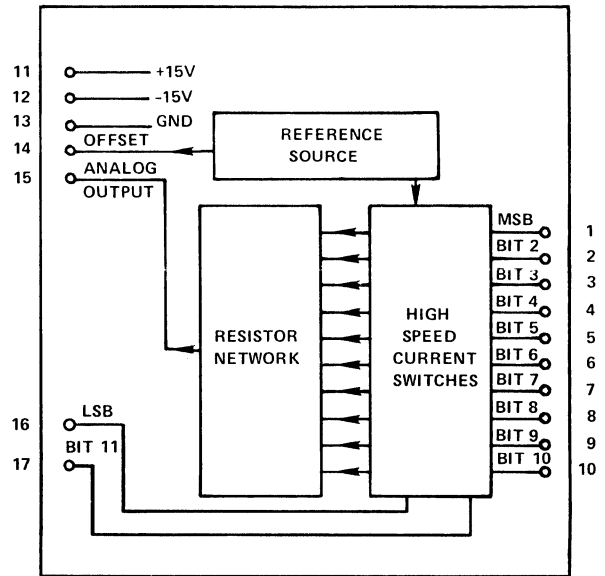
BB48



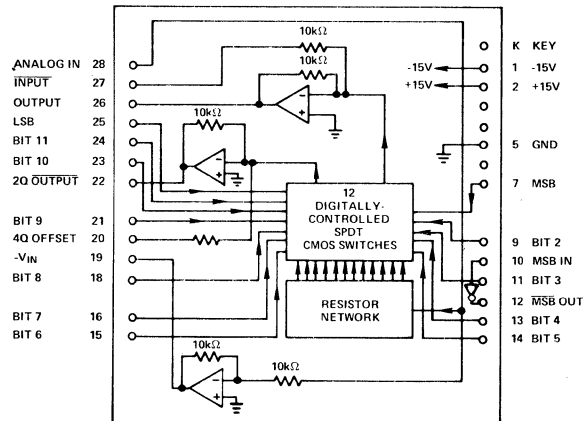
BB49



BB50



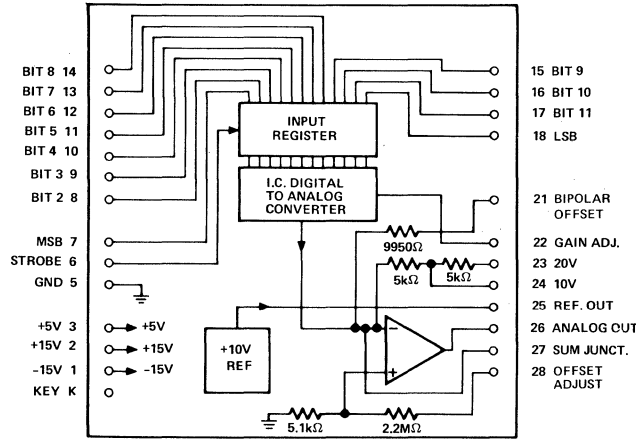
BB51



27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

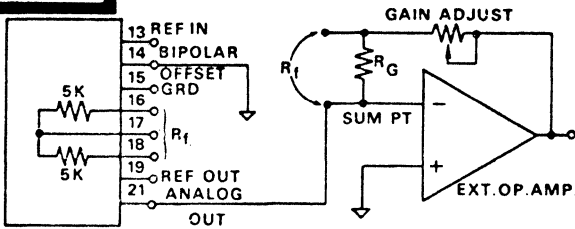
BB52



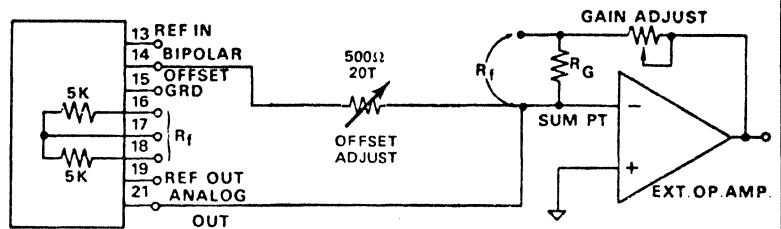
BIT 8 14
BIT 7 13
BIT 6 12
BIT 5 11
BIT 4 10
BIT 3 9
BIT 2 8
MSB 7
STROBE 6
GND 5
+5V 3
+15V 2
-15V 1
KEY K

15 BIT 9
16 BIT 10
17 BIT 11
18 LSB
21 BIPOLAR
OFFSET
22 GAIN ADJ.
23 20V
24 10V
25 REF. OUT
26 ANALOG OUT
27 SUM JUNCT.
28 OFFSET
ADJUST

BB53



(Unipolar)

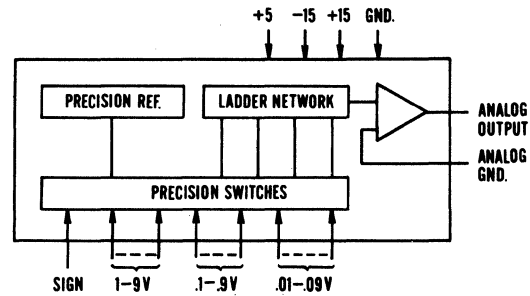


(Bipolar)

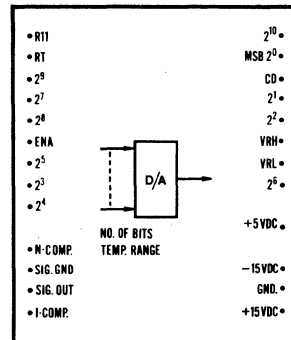
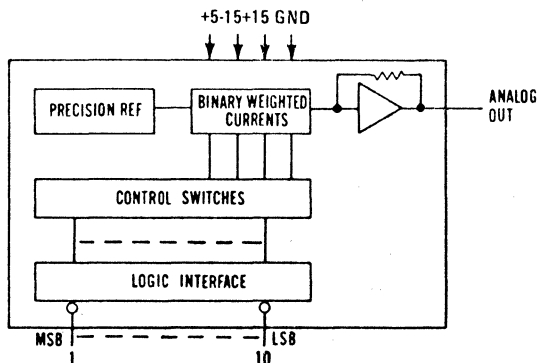
PIN DESIGNATIONS

PIN	FUNCTION
1	BIT 1 (MSB)
2	BIT 2
3	BIT 3
4	BIT 4
5	BIT 5
6	BIT 6
7	BIT 7
8	BIT 8
9	BIT 9
10	BIT 10
11	BIT 11
12	BIT 12 (LSB)
13	REFERENCE INPUT
14	BIPOLAR OUTPUT OFFSET
15	POWER AND SIGNAL GROUND
16	5K } GAIN FEEDBACK RESISTORS
17	
18	INTERNAL REFERENCE OUTPUT
19	+15VDC SUPPLY INPUT
20	+15VDC SUPPLY INPUT
21	ANALOG OUTPUT
22	μDAC'S BASE LINE REFERENCE
23	-15VDC SUPPLY INPUT
24	+5VDC SUPPLY INPUT

BB55



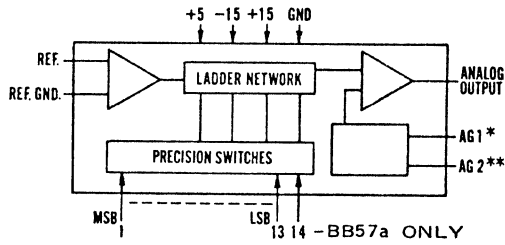
BB56



27. LOGIC/BLOCK DRAWINGS

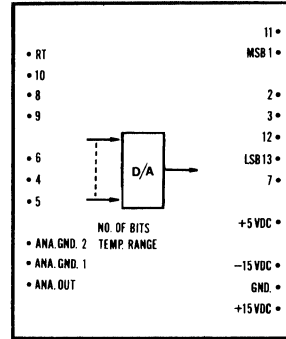
IN DRAWING NUMBER
SEQUENCE

BB57

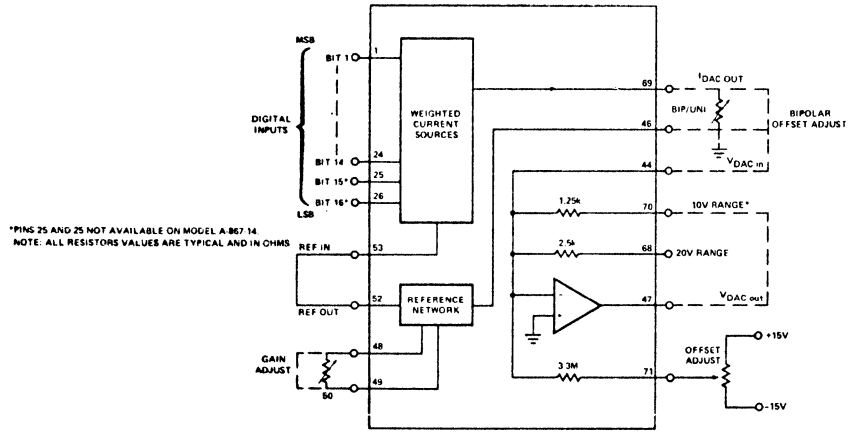


* AG1: ground for one's complement

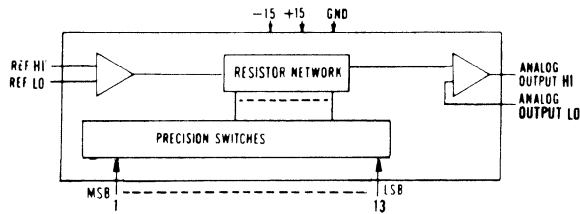
** AG2: ground for two's complement



BB58



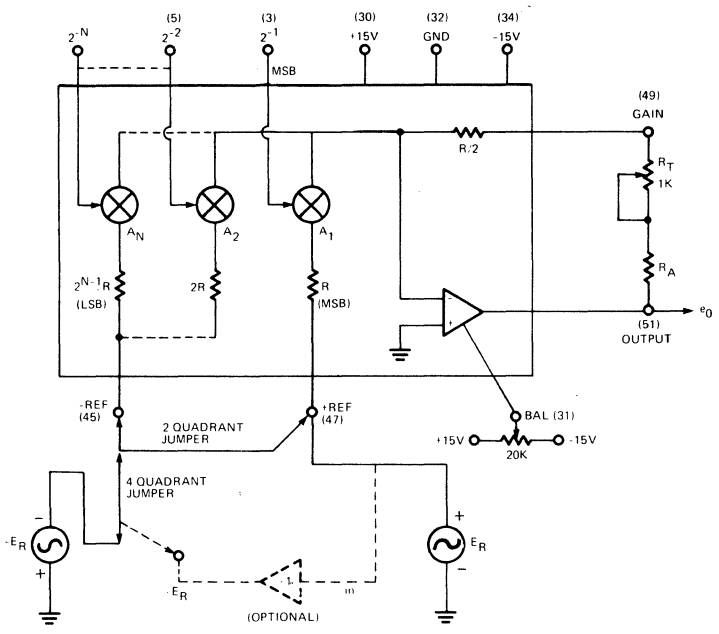
BB61



27. LOGIC/BLOCK DRAWINGS

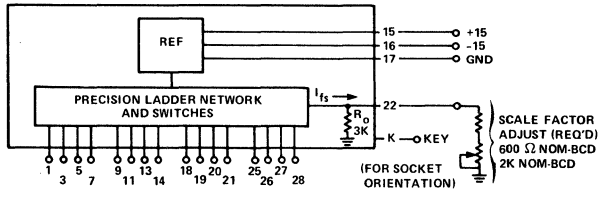
IN DRAWING NUMBER SEQUENCE

BB62

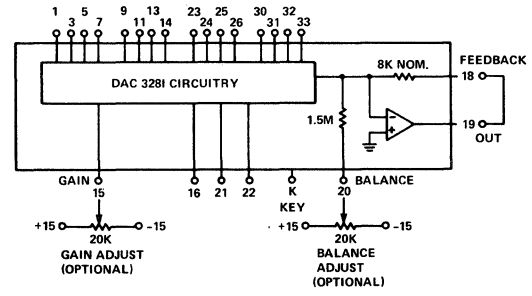


PIN NO.	FUNCTION	PIN NO.	FUNCTION
3	2^{-1} (800)	23	2^{-11} (2)
5	2^{-2} (400)	25	2^{-12} (1)
7	2^{-3} (200)	30	+15 VDC
9	2^{-4} (100)	31	BALANCE
11	2^{-5} (80)	32	GRD
13	2^{-6} (40)	34	-15 VDC
15	2^{-7} (20)	45	-REF
17	2^{-8} (10)	47	+REF
19	2^{-9} (8)	49	GAIN
21	2^{-10} (4)	51	OUT

BB63



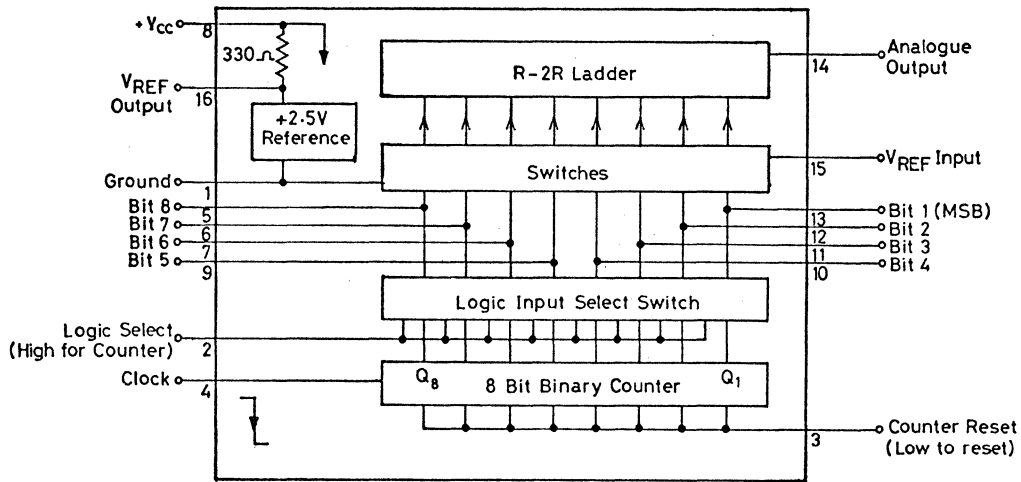
BB64



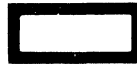
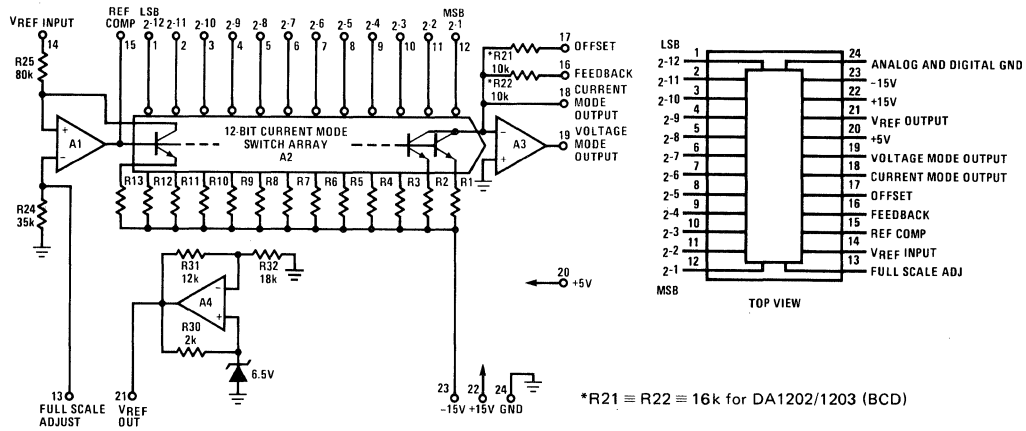
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

BB71



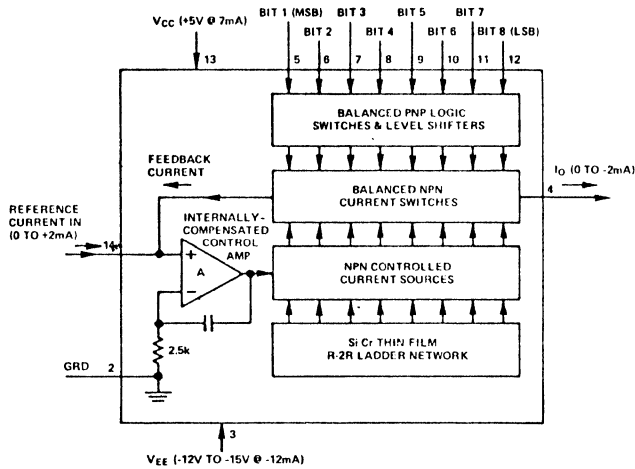
BB72



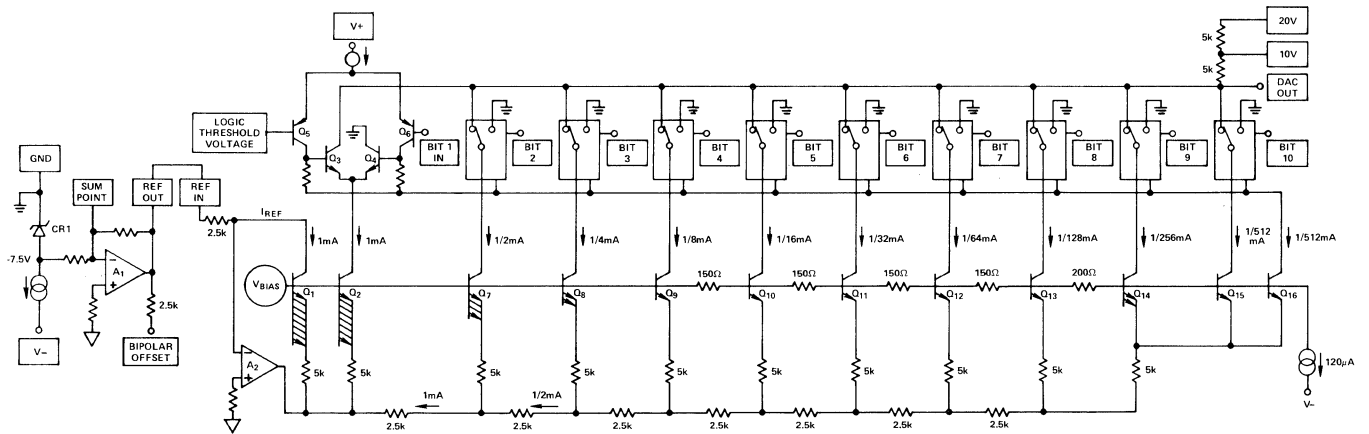
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

BB73



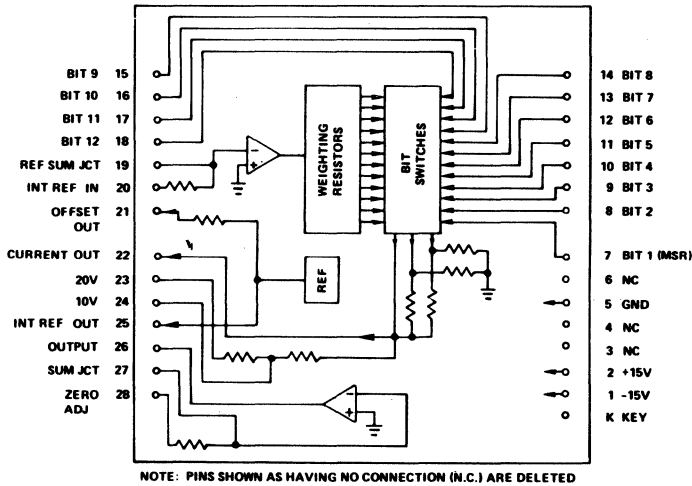
BB74



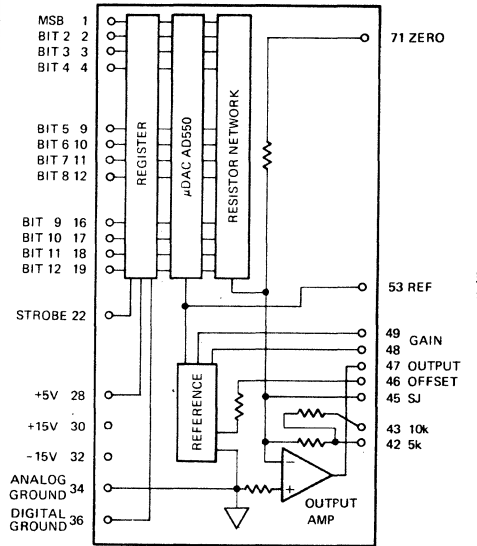
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

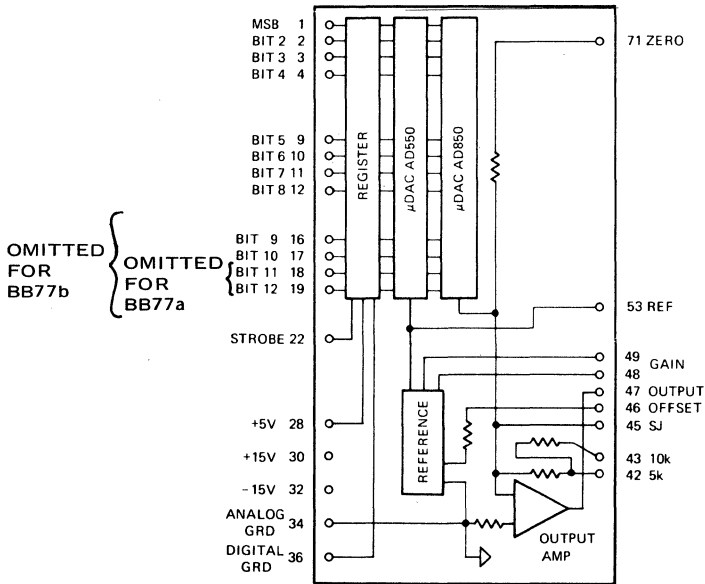
BB75



BB76



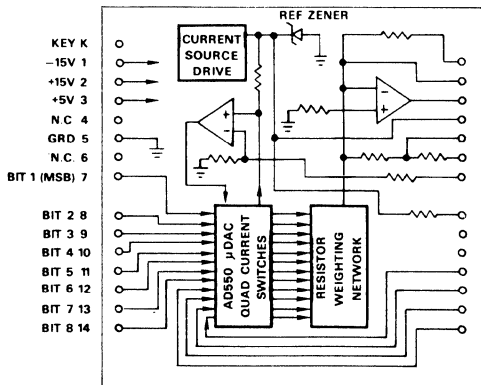
BB77



27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

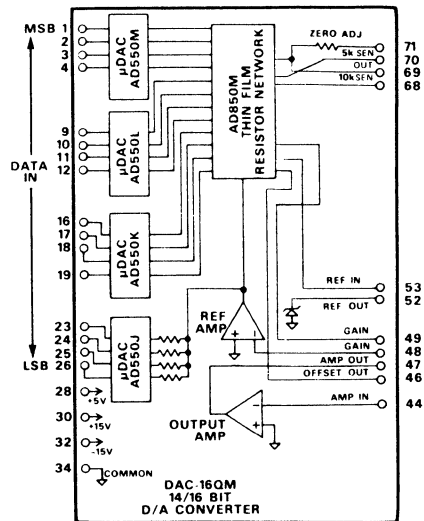
BB78



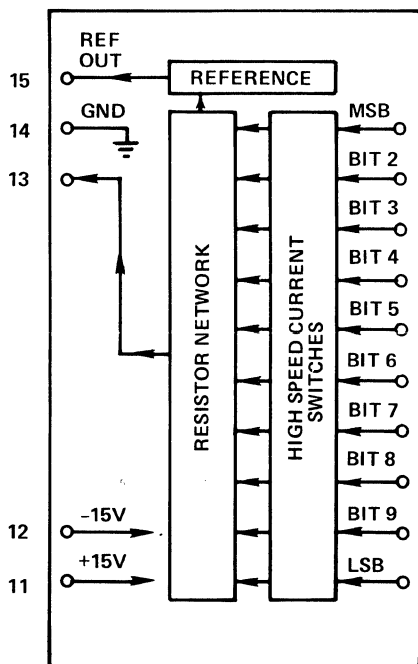
OMITTED FOR BB78a }
 OMITTED FOR BB78b }

NOTE: PINS SHOWN AS HAVING NO CONNECTIONS (N.C.) ARE DELETED.

BB79



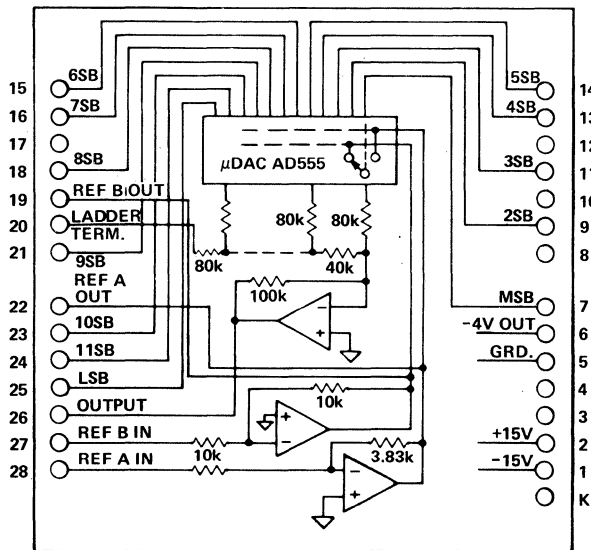
BB80



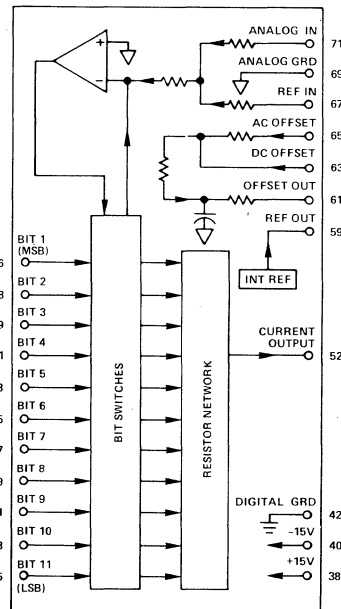
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

BB81



BB82

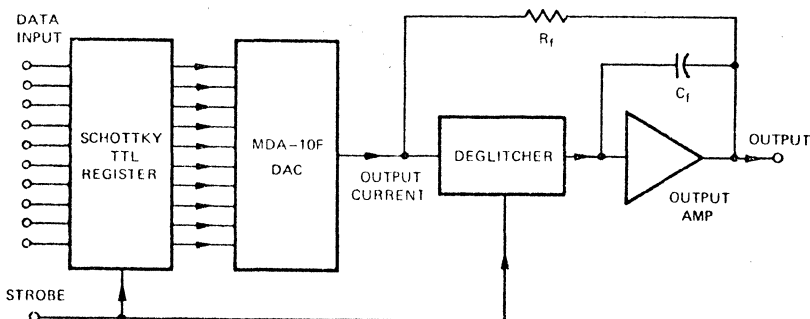


BB83

PIN	FUNCTION
1	MSB 1
2	MSB 2
3	MSB 3
4	MSB 4
5	MSB 5
6	MSB 6
7	MSB 7
8	LSB 8
9	-15V DC
10	GND
11	
12	OUTPUT
13	
14	+15V DC
15	
16	+5V DC

BB84

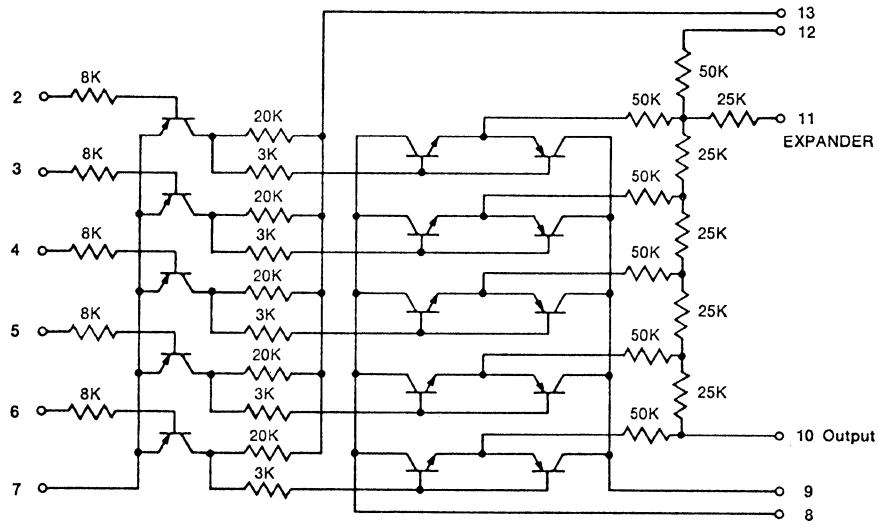
PIN	FUNCTION	PIN	FUNCTION
A	BIT 1 (MSB)	N	} INTERLOCK
B	BIT 2	P	
C	BIT 3	R	+5VDC
D	BIT 4	S	} DIGITAL GRD
E	BIT 5	T	
F	BIT 6	U	} ANALOG GRD
H	BIT 7	V	
J	BIT 8	W	+15VDC
L	BIT 10 (LSB)	Y	-15VDC
M	STROBE	Z	ANALOG GRD



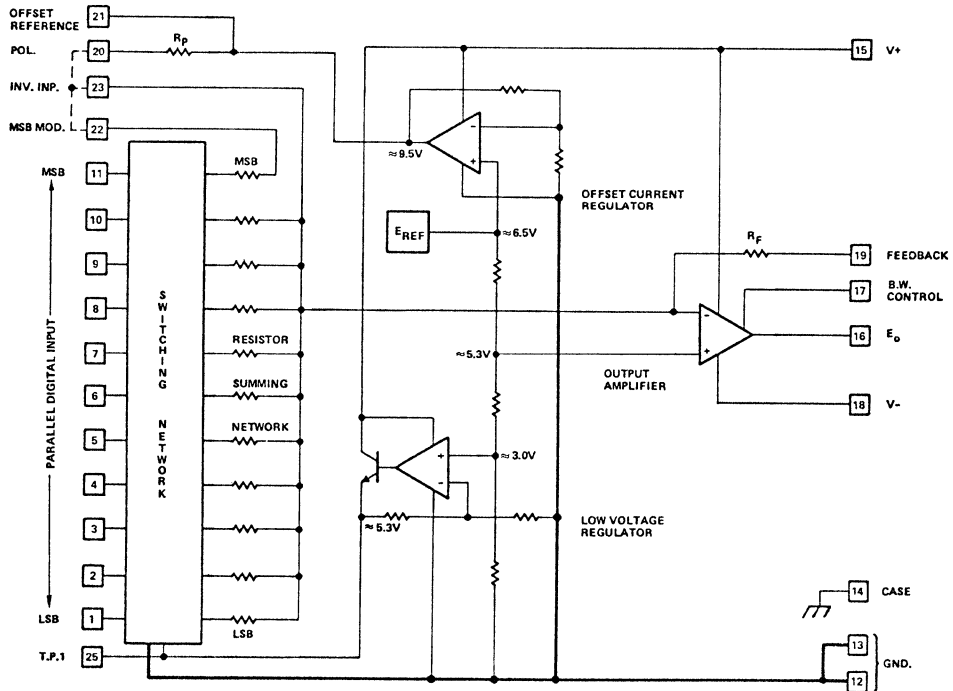
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

BB85



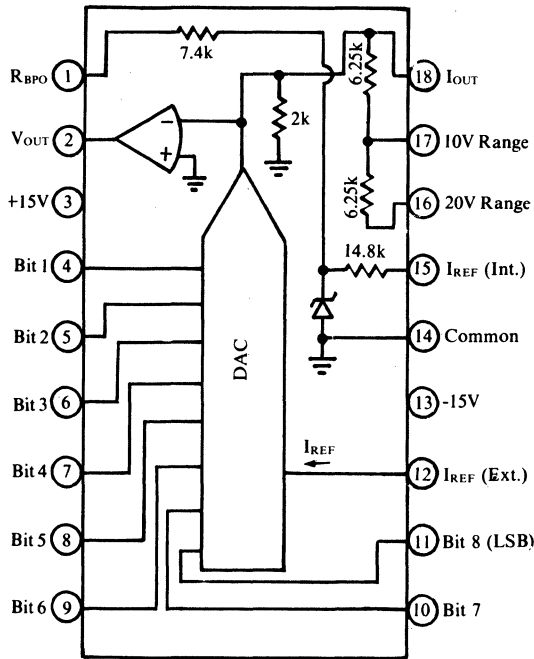
BB86



27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

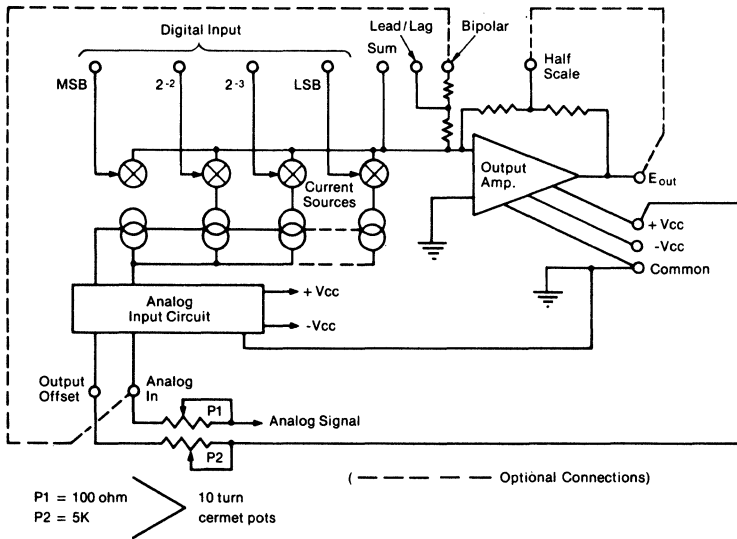
BB87



BB88

1. I_{out1}
2. I_{out2}
3. Com
4. Bit 1 (MSB)
5. Bit 2
6. Bit 3
7. Bit 4
8. Bit 5
9. Bit 6
10. Bit 7
11. Bit 8
12. Bit 9
13. Bit 10
14. Bit 11
15. Bit 12 (LSB)
16. +VDD
17. V_{ref} In
18. R feedback

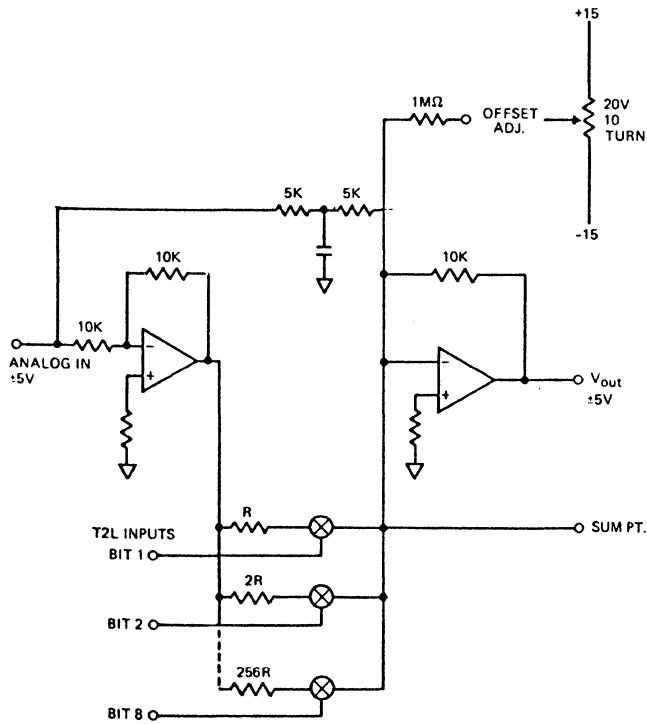
BB89



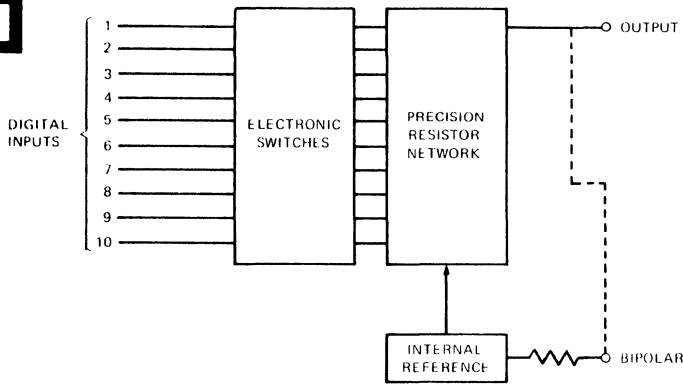
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

BB90



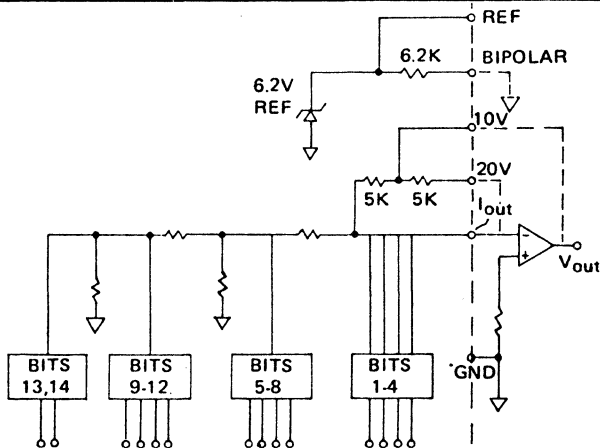
BB91



BB92

PIN CONNECTIONS

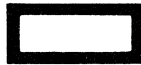
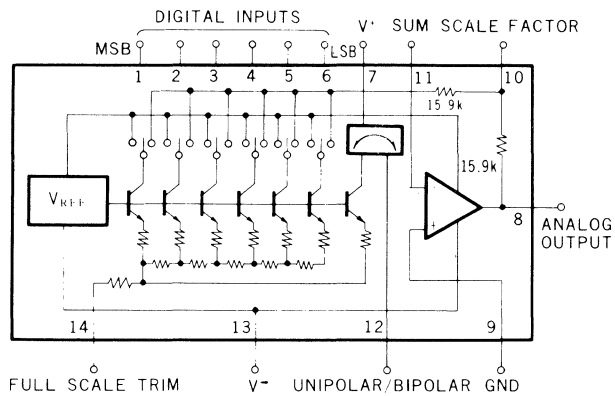
1 BIT 1 (MSB)	14 BIT 14
2 BIT 2	15 +5V
3 BIT 3	16 +15V
4 BIT 4	17 -15V
5 BIT 5	18 COM
6 BIT 6	19 GAIN
7 BIT 7	20 I _{out}
8 BIT 8	21 10V FS
9 BIT 9	22 20V FS
10 BIT 10	23 ZERO
11 BIT 11	24 SIG COMMON
12 BIT 12	25 V _{ref}
13 BIT 13	26 BIP OFFSET



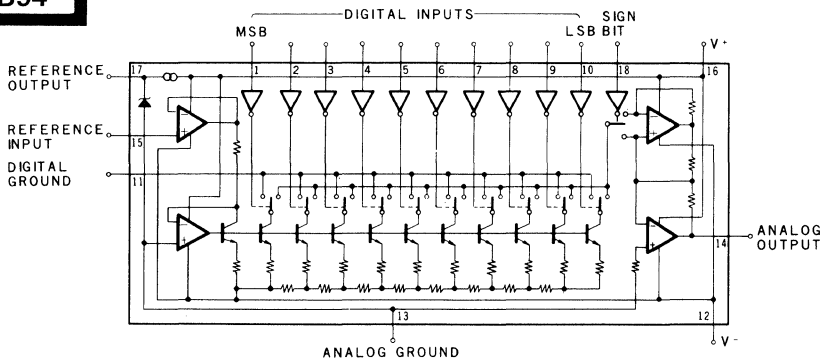
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

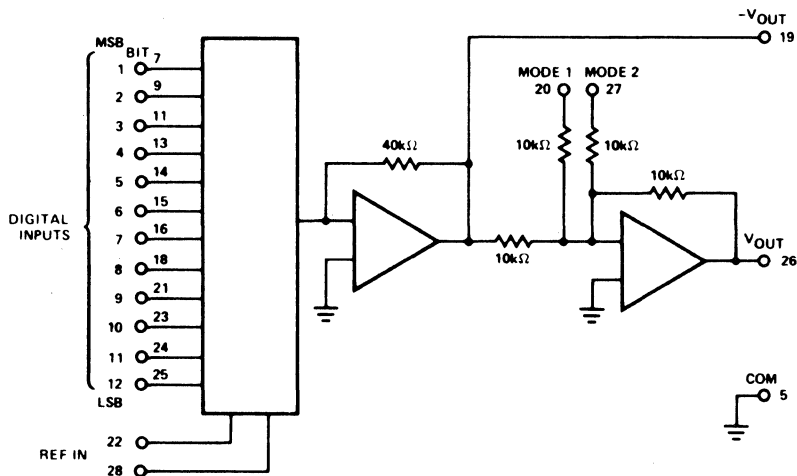
BB93



BB94



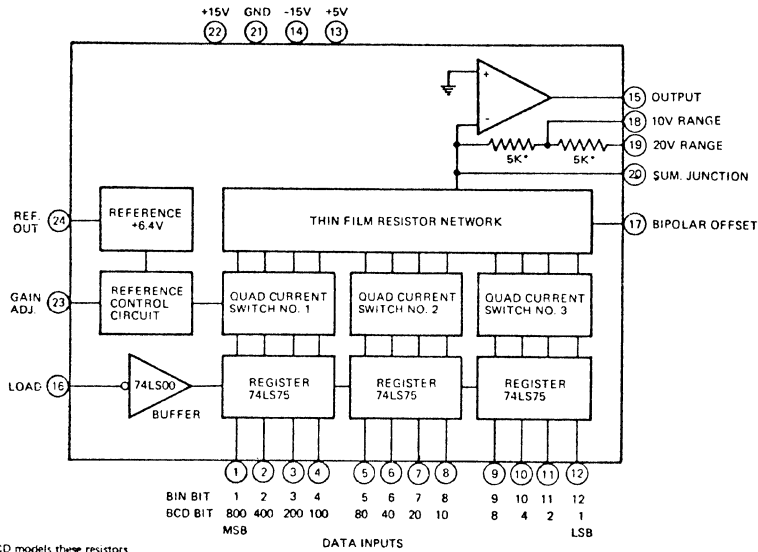
BB95



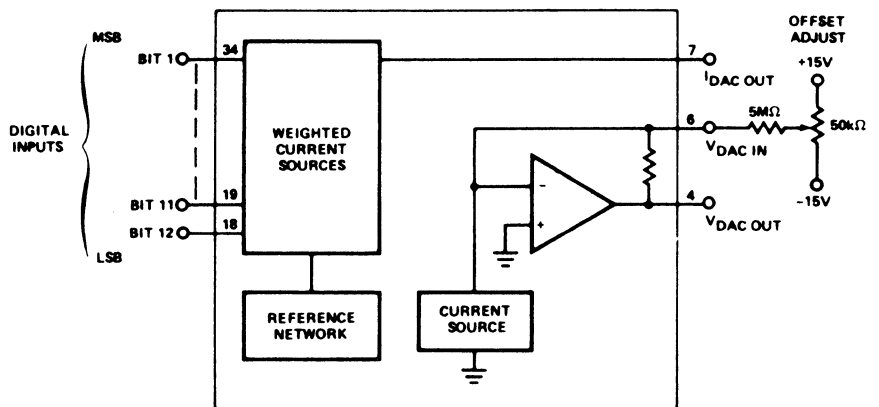
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

BB96



BB97

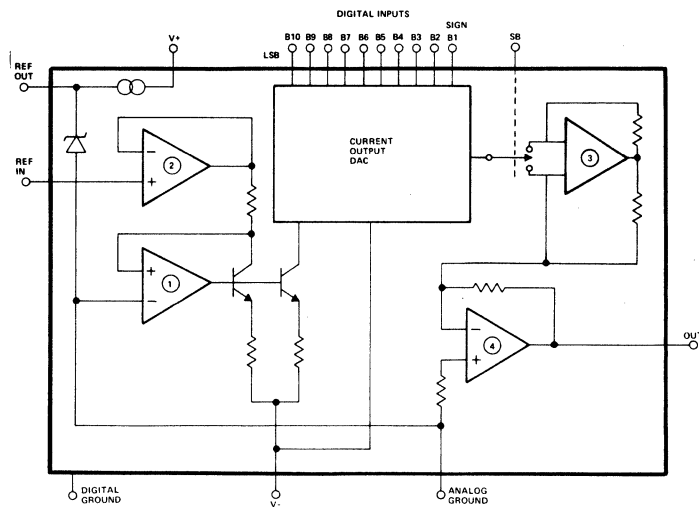


BB97a: ONLY CURRENT OUTPUT DAC; OTHERWISE THE SAME. $I_{DAC OUT}$ IS PIN 6 ON BB97a.

27. LOGIC/BLOCK DRAWINGS

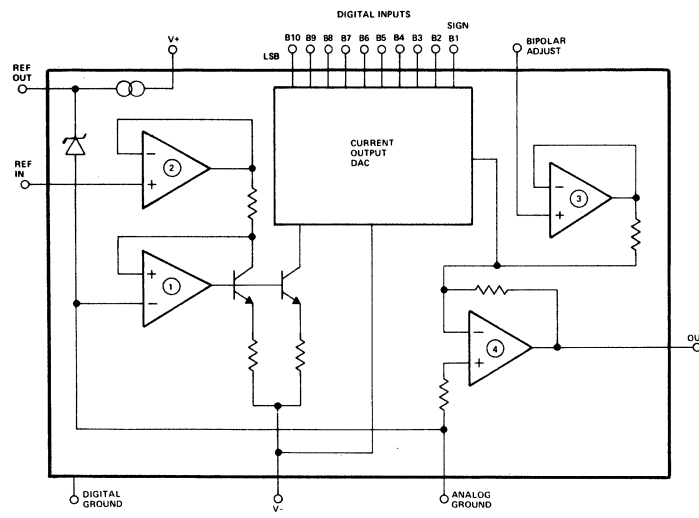
IN DRAWING NUMBER SEQUENCE

BB98



BIT 1 MSB	1	B1	SB	18	SIGN BIT INPUT: 1 = POSITIVE
BIT 2	2	B2	RO	17	REFERENCE OUTPUT
BIT 3	3	B3	V+	16	POSITIVE POWER SUPPLY
BIT 4	4	B4	RI	15	REFERENCE INPUT
BIT 5	5	B5	EO	14	ANALOG OUTPUT
BIT 6	6	B6	AG	13	ANALOG GROUND
BIT 7	7	B7	V-	12	NEGATIVE POWER SUPPLY
BIT 8	8	B8	DG	11	DIGITAL GROUND
BIT 9	9	B9	B10	10	BIT 10 LSB

BB99

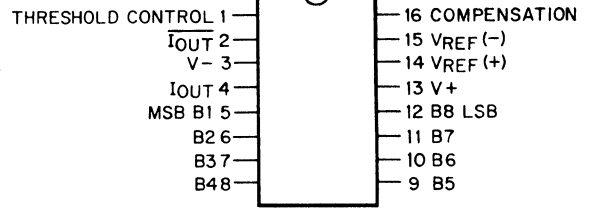
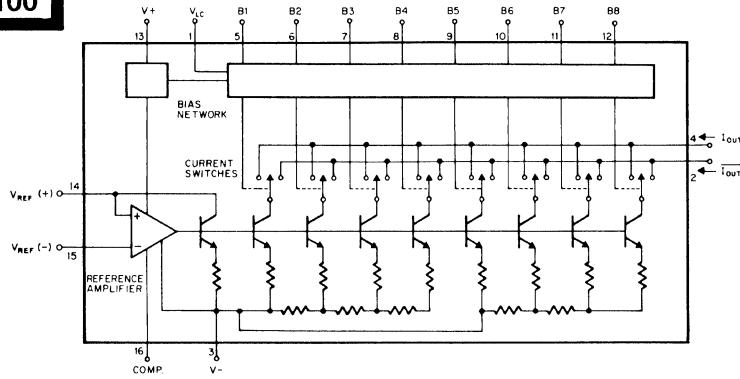


SIGN BIT 1	1	B1	BA	18	BIPOLAR ADJUST
BIT 2	2	B2	RO	17	REFERENCE OUTPUT
BIT 3	3	B3	V+	16	POSITIVE POWER SUPPLY
BIT 4	4	B4	RI	15	REFERENCE INPUT
BIT 5	5	B5	EO	14	ANALOG OUTPUT
BIT 6	6	B6	AG	13	ANALOG GROUND
BIT 7	7	B7	V-	12	NEGATIVE POWER SUPPLY
BIT 8	8	B8	DG	11	DIGITAL GROUND
BIT 9	9	B9	B10	10	BIT 10 LSB

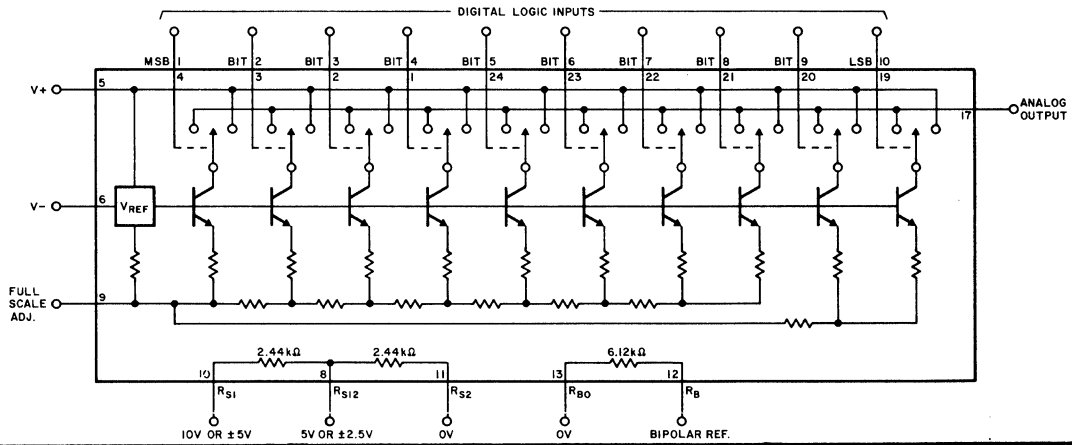
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

BB100



BB101

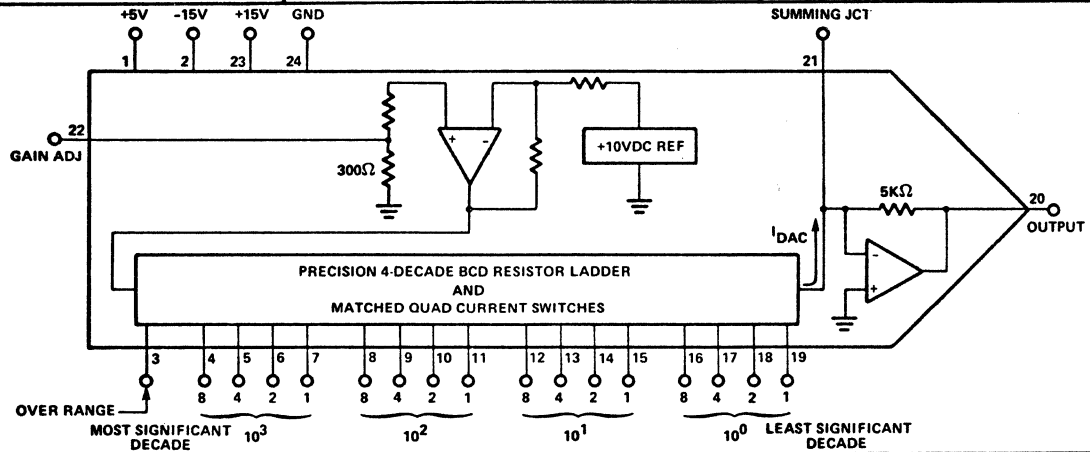


BB102

PIN CONNECTIONS

PIN	PIN
1	28 +15V
2	27 GND
3	26 -15V
4	25 N.C.
5	24 N.C.
6	23 N.C.
7	22 N.C.
8	21 REF IN
9	20 REF
10	19 N.C.
11	18 N.C.
12	17 N.C.
13	16 OUT
14	15 GND

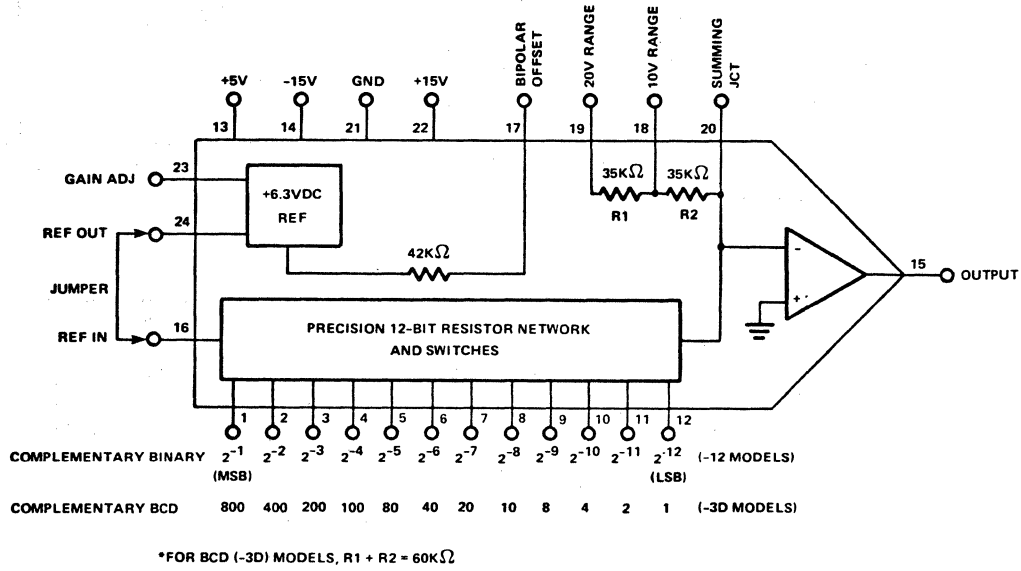
BB103



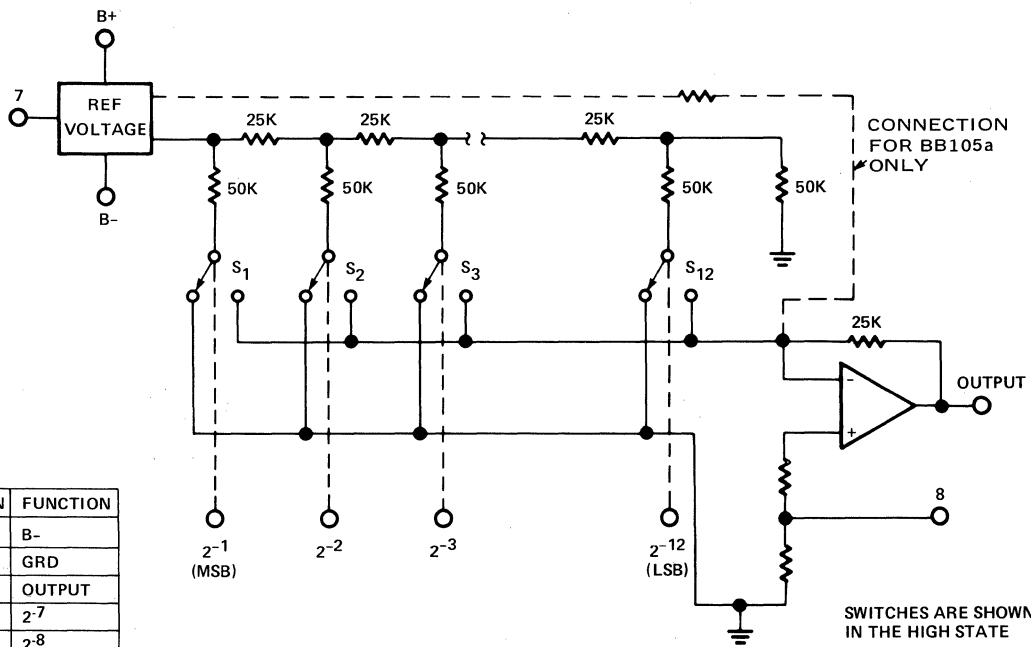
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

BB104



BB105



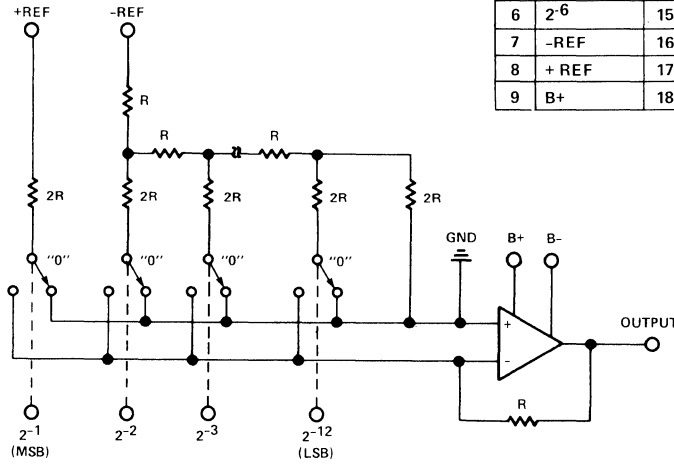
PIN	FUNCTION	PIN	FUNCTION
1	2 ⁻¹ (MSB)	10	B-
2	2 ⁻²	11	GRD
3	2 ⁻³	12	OUTPUT
4	2 ⁻⁴	13	2 ⁻⁷
5	2 ⁻⁵	14	2 ⁻⁸
6	2 ⁻⁶	15	2 ⁻⁹
7	GAIN ADJ	16	2 ⁻¹⁰
8	OFFSET ADJ	17	2 ⁻¹¹
9	B+	18	2 ⁻¹² (LSB)

27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

BB106

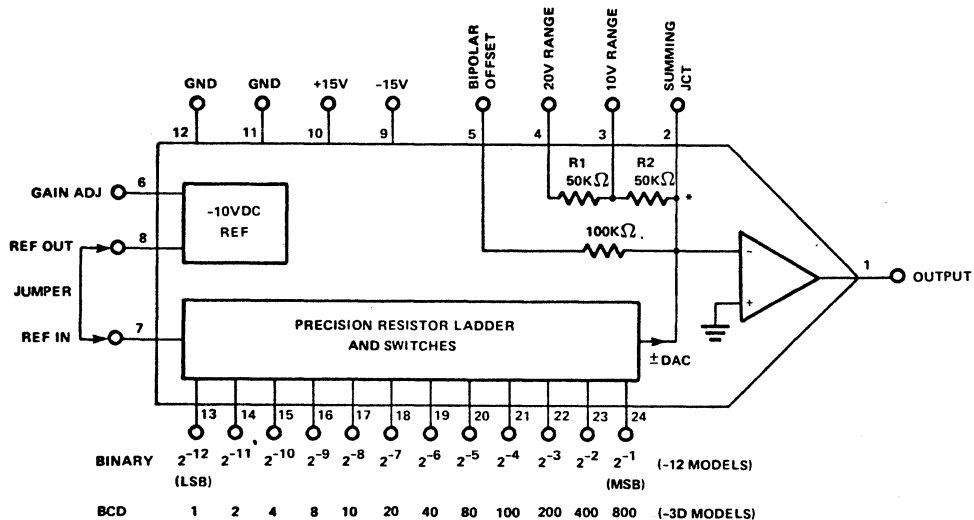
PIN	FUNCTION	PIN	FUNCTION
1	2 ⁻¹ (MSB)	10	B-
2	2 ⁻²	11	GRD
3	2 ⁻³	12	OUTPUT
4	2 ⁻⁴	13	2 ⁻⁷
5	2 ⁻⁵	14	2 ⁻⁸
6	2 ⁻⁶	15	2 ⁻⁹
7	-REF	16	2 ⁻¹⁰
8	+REF	17	2 ⁻¹¹
9	B+	18	2 ⁻¹²



1. R = 25K

HIGH INPUT = "1"
LOW INPUT = "0"
SWITCHES SHOWN IN LOW STATE

BB107



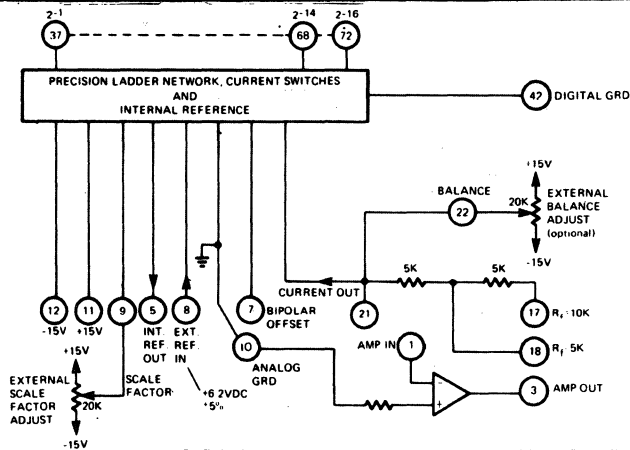
*FOR BCD (-3Q MODELS), R1 + R2 = 80K

27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

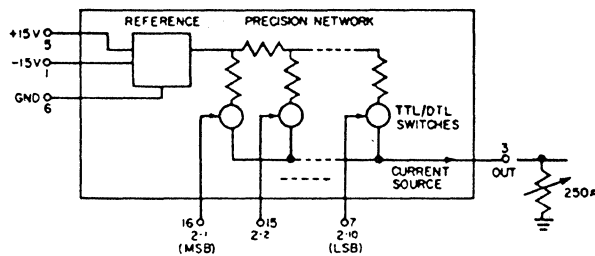
BB108

PIN	FUNCTION
1	AMP IN
3	AMP OUT
5	REF OUT
7	BIPOLAR
8	REF IN
9	SCALE FACTOR
10	ANALOG GRD
11	+15V
12	-15V
17	10K
18	5K
21	I OUT
22	BAL
37	2-1
40	2-2
42	DIGITAL GRD
43	2-3
49	2-4
51	2-5
53	2-6
55	2-7
57	2-8
59	2-9
61	2-10
63	2-11
65	2-12
66	2-13
68	2-14
70	2-15
72	2-16



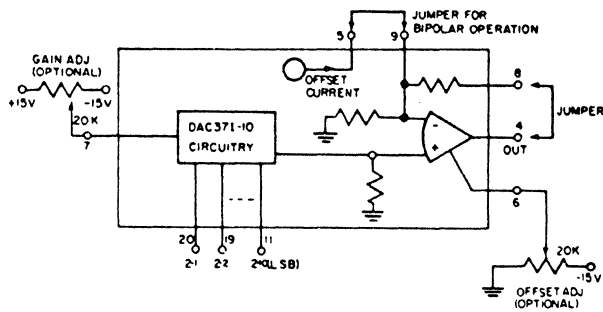
BB109

PIN NO.	FUNCTION
1	-15VDC
3	OUT
5	+15VDC
6	GRD
7	2-10 (LSB)
8	2-9
9	2-8
10	2-7
11	2-6
12	2-5
13	2-4
14	2-3
15	2-2
16	2-1 (MSB)



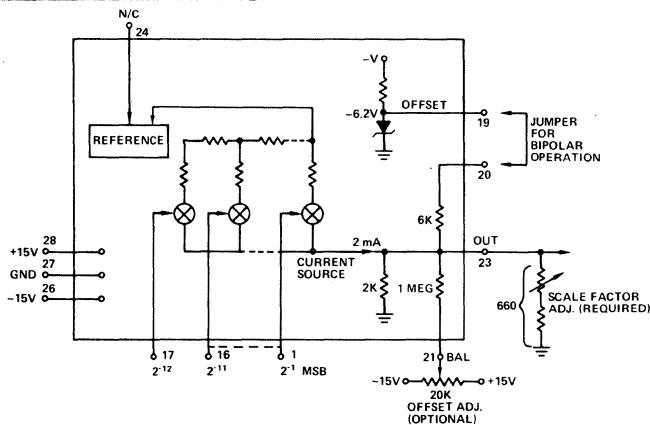
BB110

PIN NO.	FUNCTION
1	+15VDC
2	-15VDC
4	OUTPUT
5	OFFSET
6	BALANCE
7	GAIN
8	FEEDBACK
9	S.J.
10	GROUND
11	2-10(LSB)
12	2-9
13	2-8
14	2-7
15	2-6
16	2-5
17	2-4
18	2-3
19	2-2
20	2-1 (MSB)



BB111

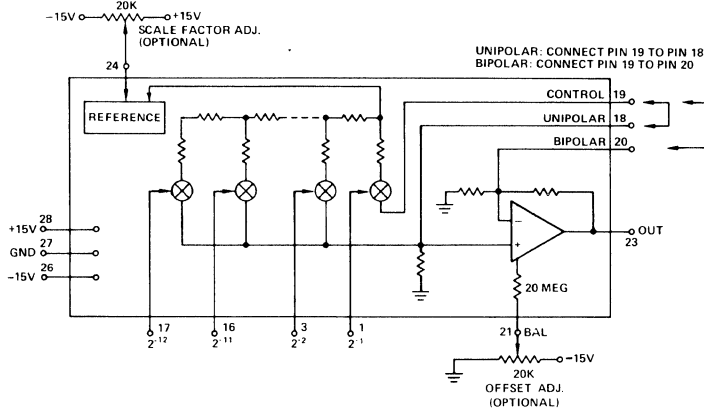
PIN	FUNCTION	PIN	FUNCTION
28	+15V	K	KEY
27	GND	1	BIT 1 (MSB)
26	-15V	2	N/C
25	N/C	3	BIT 2
24	N/C	4	N/C
23	OUT	5	BIT 3
22	N/C	6	N/C
21	BAL	7	BIT 4
20	BIPOLAR	8	N/C
19	OFFSET	9	BIT 5
18	N/C	10	N/C
17	BIT 12 (LSB)	11	BIT 6
16	BIT 11	12	BIT 7
15	BIT 10	13	BIT 8
		14	BIT 9



27. LOGIC/BLOCK DRAWINGS

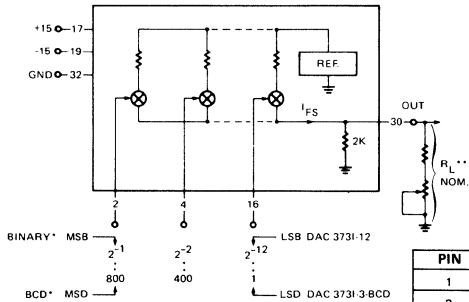
IN DRAWING NUMBER SEQUENCE

BB112



PIN	FUNCTION	PIN	FUNCTION
28	+15V	1	KEY BIT 1 (MSB)
27	GND	2	N/C
26	-15V	3	BIT 2
25	N/C	4	N/C
24	SCALE FACTOR	5	BIT 3
23	OUT	6	N/C
22	N/C	7	BIT 4
21	BAL	8	N/C
20	BIPOlar	9	BIT 5
19	CONTROL	10	N/C
18	UNIPOLAR	11	BIT 6
17	BIT 12 (LSB)	12	BIT 7
16	BIT 11	13	BIT 8
15	BIT 10	14	BIT 9

BB113



PIN	3731-12	3731-3-BCD
1	N/C	N/C
2	2 ⁻¹ (MSB)	800 (MSD)
3	N/C	N/C
4	2 ⁻²	400
5	N/C	N/C
6	N/C	N/C
7	2 ⁻³	200
8	2 ⁻⁴	100
9	2 ⁻⁵	80
10	2 ⁻⁶	40
11	2 ⁻⁷	20
12	2 ⁻⁸	10
13	2 ⁻⁹	8
14	2 ⁻¹⁰	4
15	2 ⁻¹¹	2
16	2 ⁻¹² (LSB)	1 (LSD)
17	+15V	+15V
19	-15V	-15V
30	OUTPUT	OUTPUT
32	GROUND	GROUND

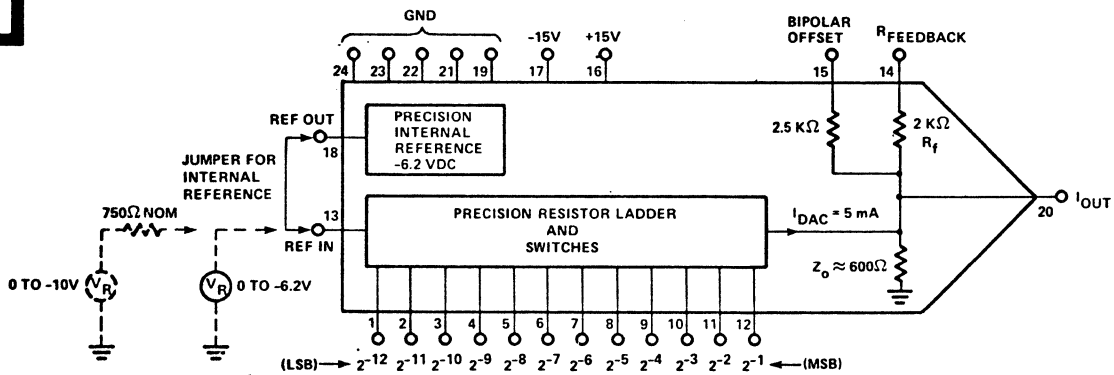
* See PIN CONNECTIONS table.
** Nominal values of R_L for binary and BCD versions are 670 Ohms and 1.43K respectively. Proportion R_L for a $\pm 10\%$ adjustment range.

N/C = No connection should be made to pins marked accordingly.

BB114

PIN	FUNCTION	PIN	FUNCTION
4	BALANCE	38	2 ⁻⁹
5	RANGE	40	2 ⁻⁸
6	SENSE	42	2 ⁻⁷
7	OUTPUT	44	2 ⁻⁶
14	V _{CC}	45	N/C
15	10.50 mA	46	2 ⁻⁵
16	4.20 mA	47	N/C
17	1.5 mA	48	2 ⁻⁴
19	+15V	49	N/C
20	GRD	50	2 ⁻³
23	-15V	51	N/C
29	REF	52	2 ⁻²
30	SCALE FACTOR	53	N/C
31	LOGIC CTL	54	2 ⁻¹
32	2 ⁻¹²	55	N/C
34	2 ⁻¹¹	56	ZERO
36	2 ⁻¹⁰		

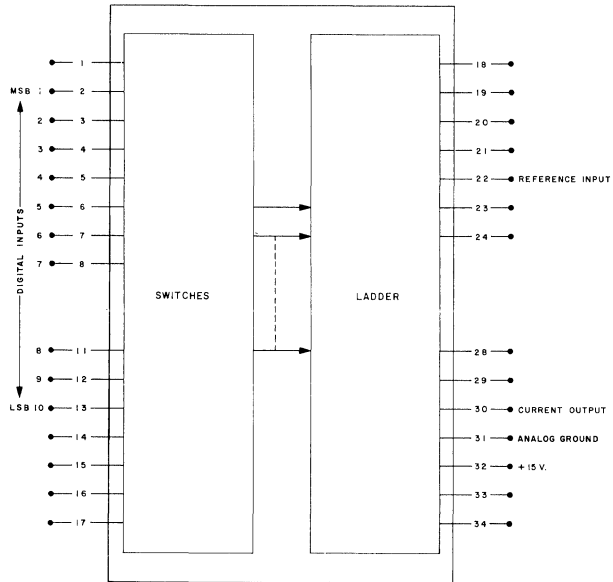
BB115



27. LOGIC/BLOCK DRAWINGS

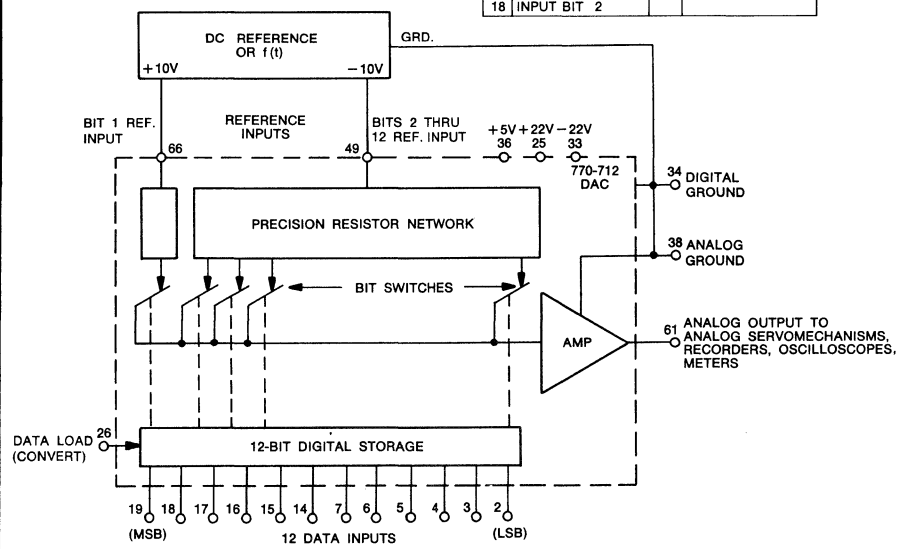
IN DRAWING NUMBER SEQUENCE

BB119



BB120

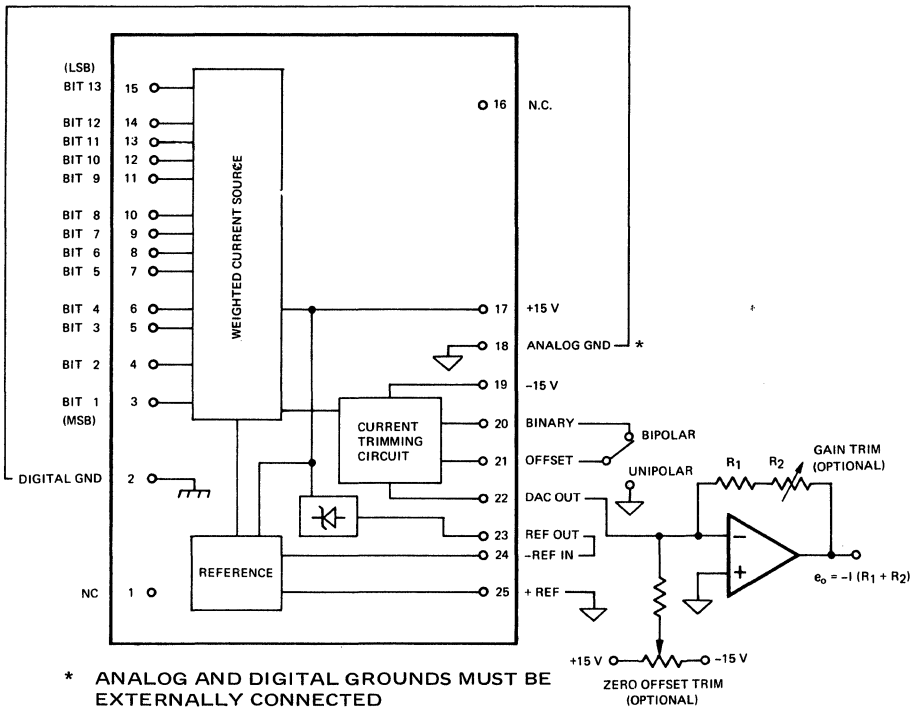
PIN	FUNCTION	PIN	FUNCTION
2	INPUT BIT 12 (LSB)	19	INPUT BIT 1 (MSB)
3	11	25	+22V SUPPLY
4	10	26	DATA LOAD
5	9	33	-22V SUPPLY
6	8	34	DIGITAL GRD.
7	7	36	+5V SUPPLY
14	6	38	ANALOG GRD.
15	5	49	BITS 2-12 REF. INP
16	4	61	OUTPUT
17	3	66	BIT 1 REF. INPUT
18	INPUT BIT 2		



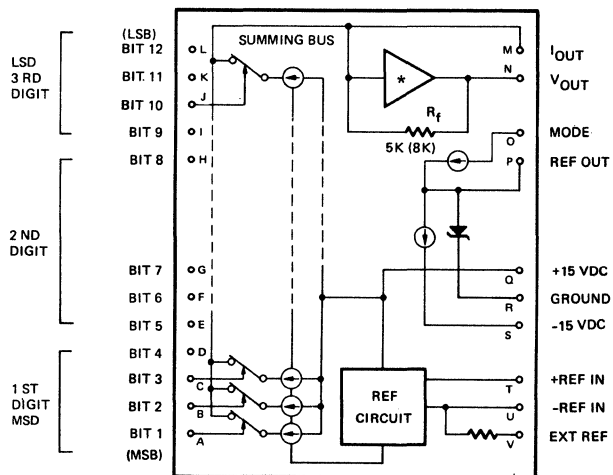
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

BB121



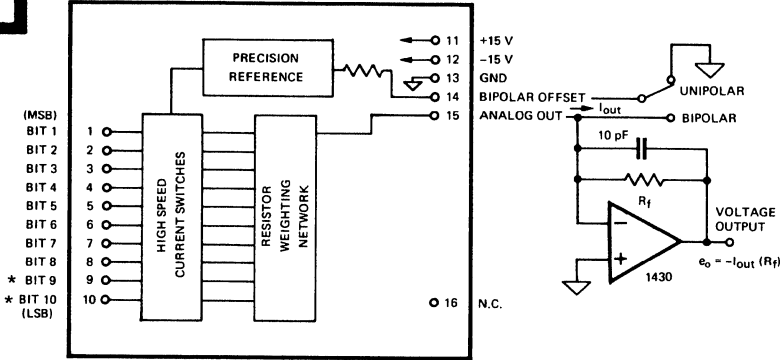
BB122



27. LOGIC/BLOCK DRAWINGS

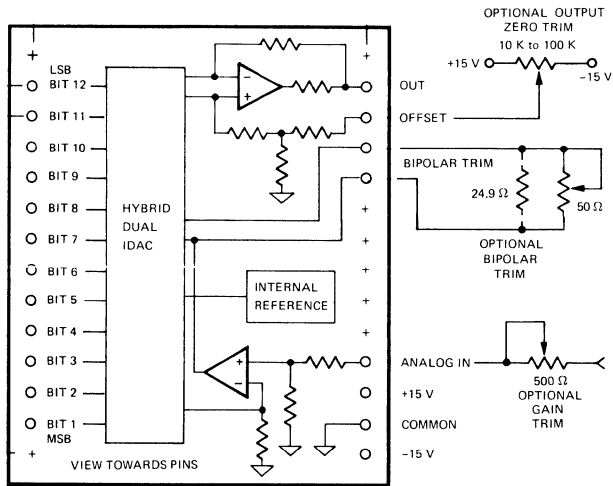
IN DRAWING NUMBER SEQUENCE

BB123



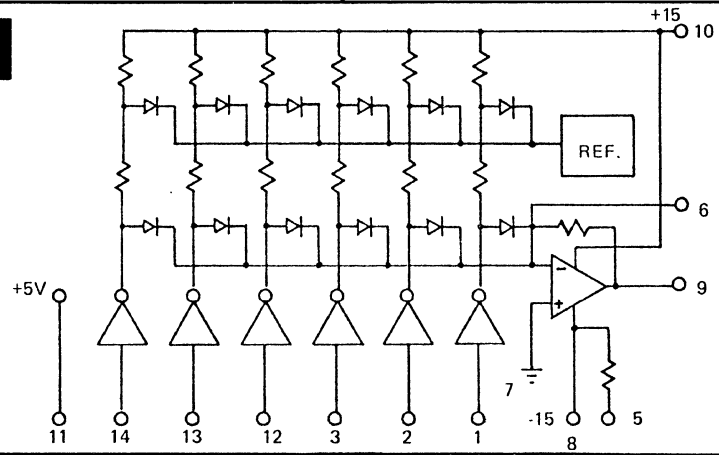
* PINS NOT PRESENT ON BB123a

BB124



NOTES: 1. FOR BB124b BITS 11 & 12 MUST BE GROUNDED
2. FOR BB124a BITS 9 THRU 12 MUST BE GROUNDED

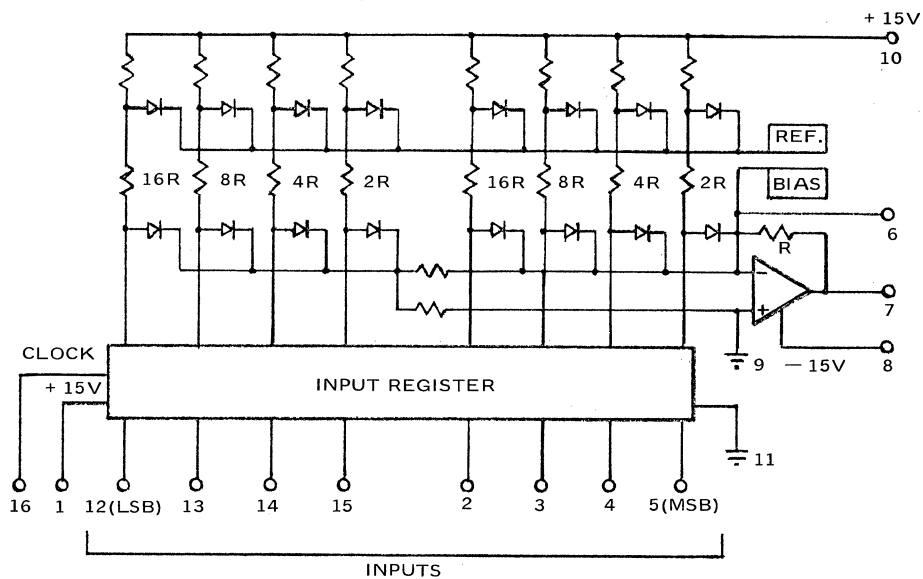
BB125



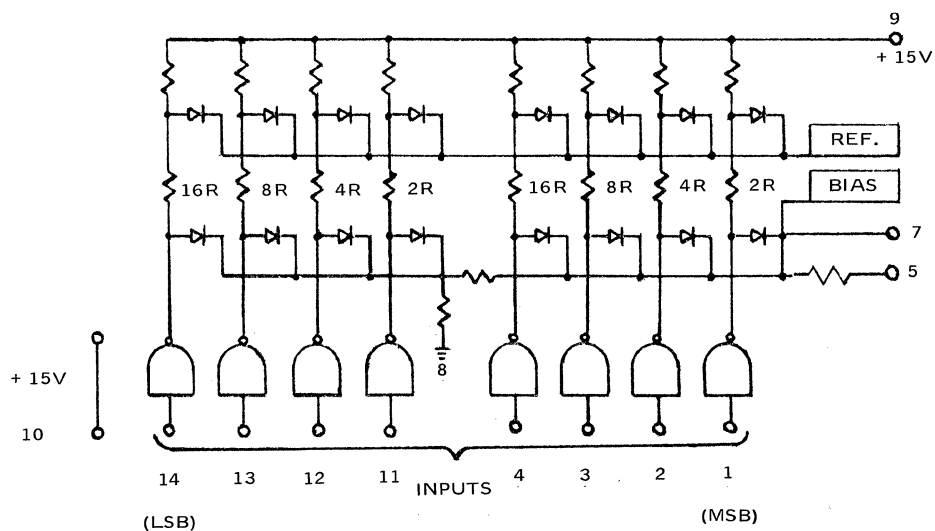
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

BB126



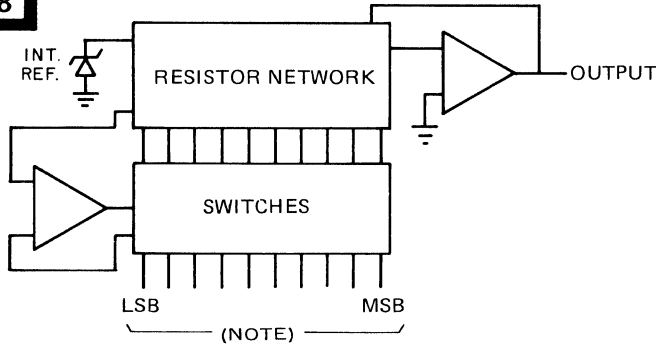
BB127



27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

BB128



MSB	1	16	LSB	MSB	1	14	LSB
BIT 2	2	15	BIT 9	BIT 2	2	13	BIT 7
BIT 3	3	14	BIT 8	BIT 3	3	12	BIT 6
BIT 4	4 (TOP)	13	BIT 7	BIT 4	4 (TOP)	11	BIT 5
BIT 5	5	12	BIT 6	OUT	5	10	N.C.*
OUT	6	11	N/C*	GND	6	9	+15V
GND	7	10	+15V	-15V	7	8	GND
-15V	8	9	GND				

BB128

*No Connection to be made to this pin

BB128a

*No Connection to be made to this point

NOTE: TOTAL OF 8 INPUT BITS FOR BB128a

BB129

MSB	1	16	+15V
BIT 2	2	15	N/C*
BIT 3	3	14	OUTPUT
BIT 4	4 (TOP)	13	N/C*
BIT 5	5	12	GND
BIT 6	6	11	-15V
BIT 7	7	10	LSB
N/C*	8	9	N/C*

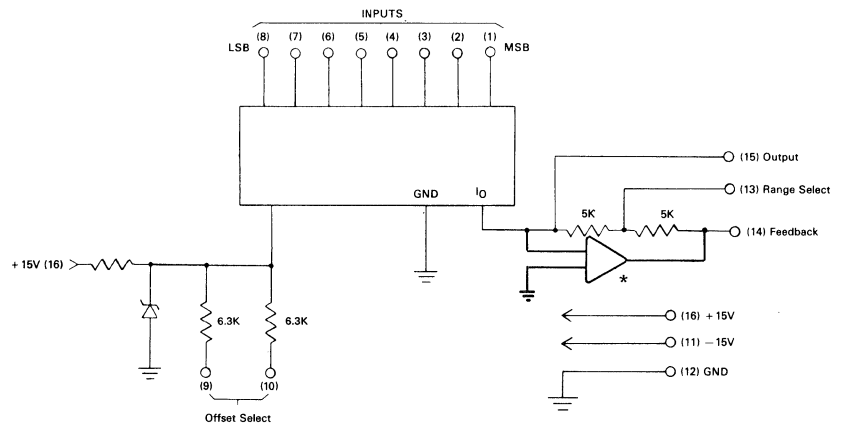
* No Connection to be made to this pin.

BB130

MSB	1	14	LSB
BIT 2	2	13	BIT 7
BIT 3	3	12	BIT 6
BIT 4	4 (TOP)	11	BIT 5
OUT	5	10	N.C.
GND	6	9	+15V
-15V	7	8	GND

*No Connection to be made to this point

BB131

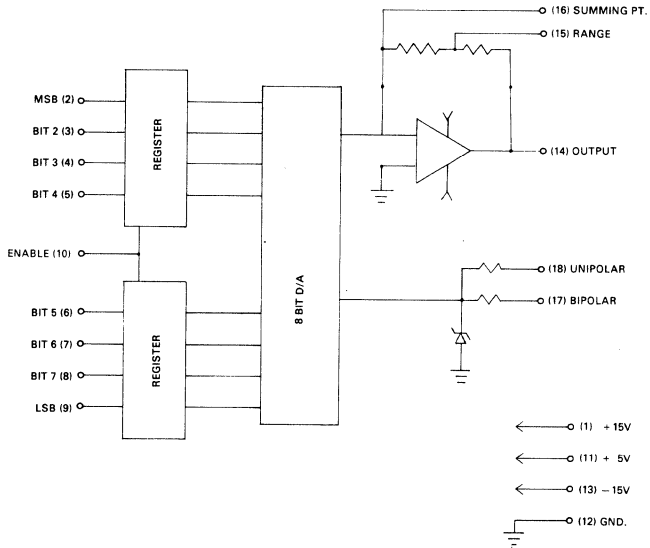


* NOTE: OUTPUT AMPLIFIER FOR BB131a ONLY
AND PIN 14 = OUTPUT
PIN 15 = SUM POINT

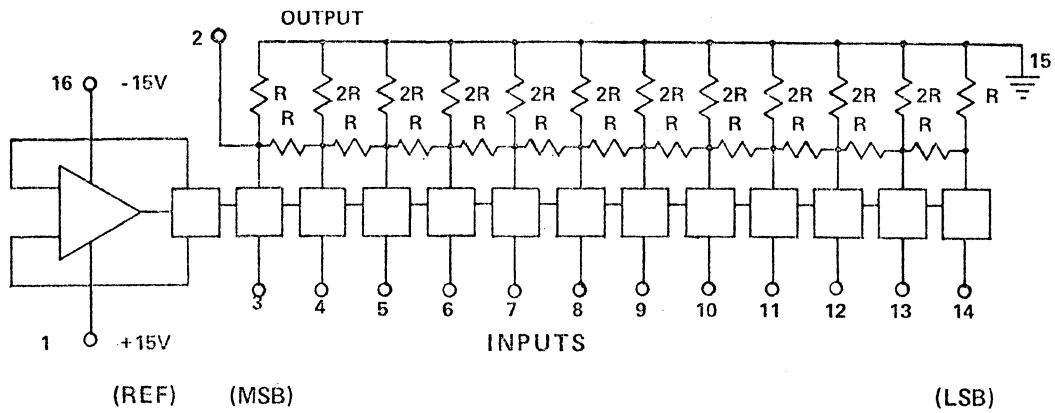
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

BB132



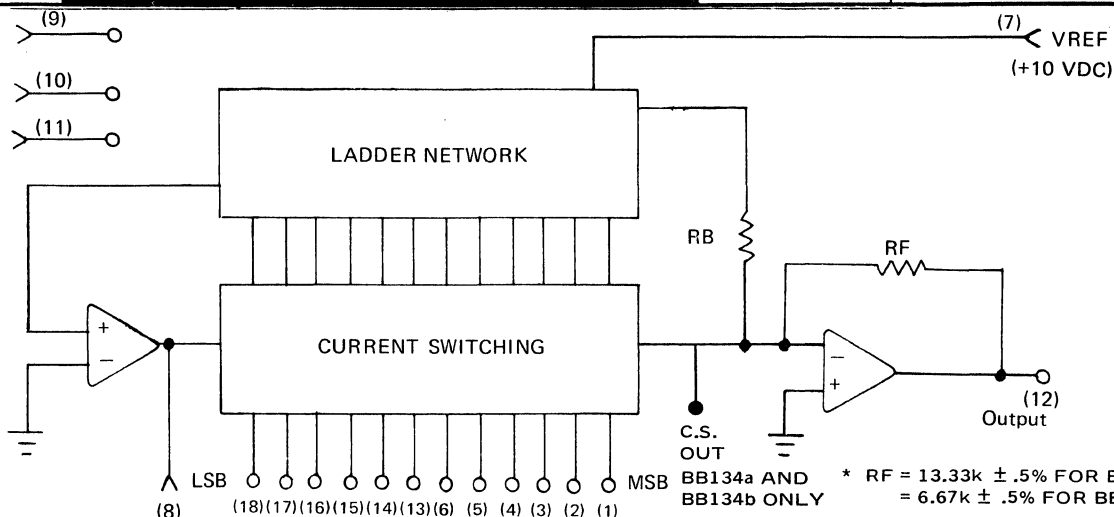
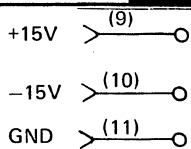
BB133



27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

BB134



Test Point
BB134 ONLY

MSB	1	18	LSB
BIT 2	2	17	BIT 11
BIT 3	3	16	BIT 10
BIT 4	4	15	BIT 9
BIT 5	5	14	BIT 8
BIT 6	6	13	BIT 7
V. REF	7	12	OUTPUT
TEST POINT	8	11	GND
+15 V	9	10	-15 V

MSB	1	18	LSB
BIT 2	2	17	BIT 11
BIT 3	3	16	BIT 10
BIT 4	4	15	BIT 9
BIT 5	5	14	BIT 8
BIT 6	6	13	BIT 7
V. REF	7	12	OUTPUT
RF	8	11	GND
+15 V	9	10	-15 V

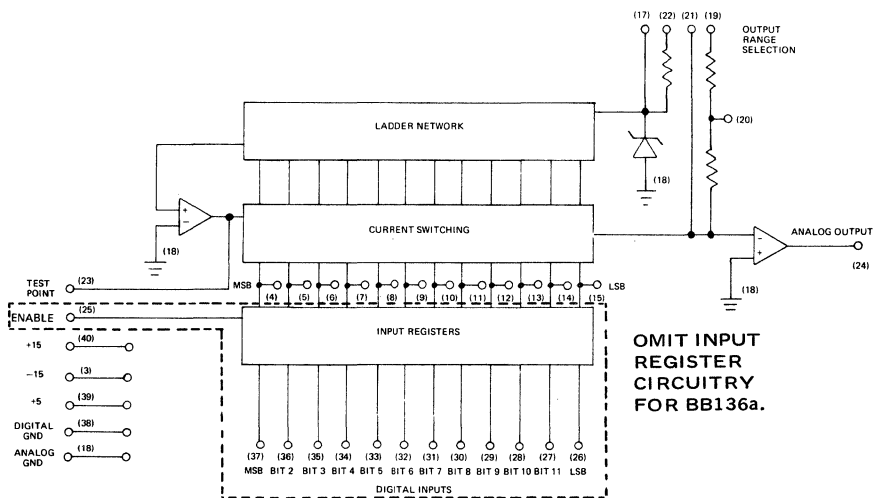
NOTE: FOR BB134a AND BB134b ONLY OUTPUT AMPLIFIER AND RB OMITTED, AND PIN 8 = RF OUTPUT TEST POINT OMITTED

BB134a AND BB134b ONLY * RF = 13.33k ± .5% FOR BB134a = 6.67k ± .5% FOR BB134b

BB135

MSB	1	18	LSB
BIT 2	2	17	BIT 11
BIT 3	3	16	BIT 10
BIT 4	4	15	BIT 9
BIT 5	5	14	BIT 8
BIT 6	6	13	BIT 7
N/C	7	12	OUTPUT
N/C	8	11	GND
+15 V	9	10	-15 V

BB136

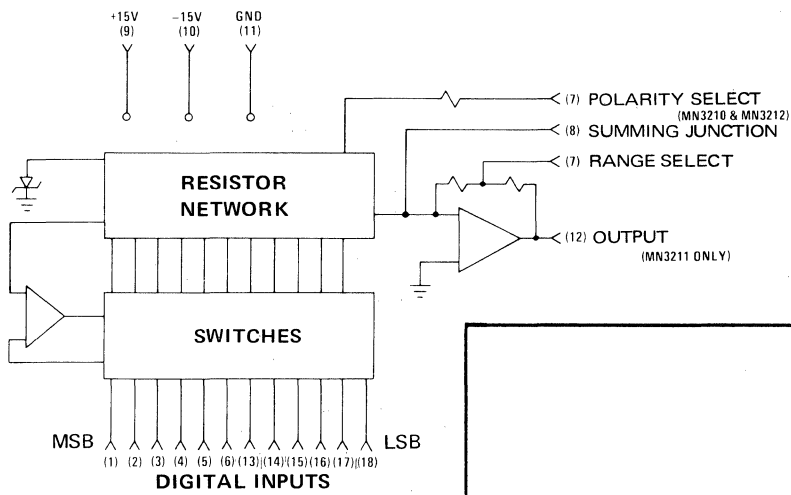


OMIT INPUT REGISTER CIRCUITRY FOR BB136a.

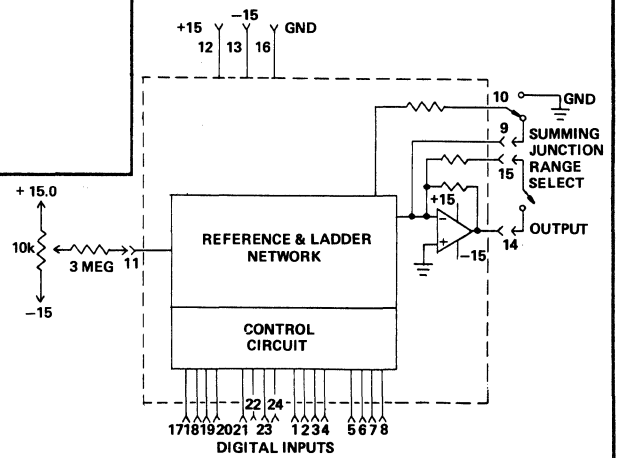
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

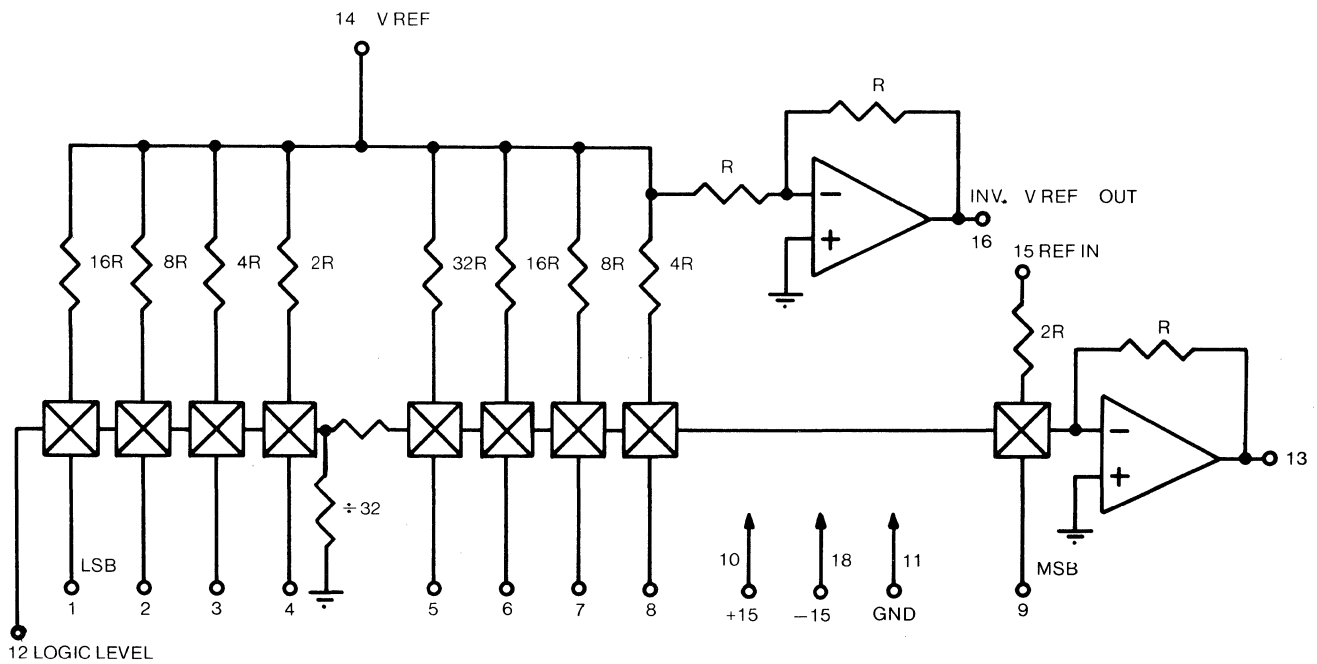
BB137



BB138



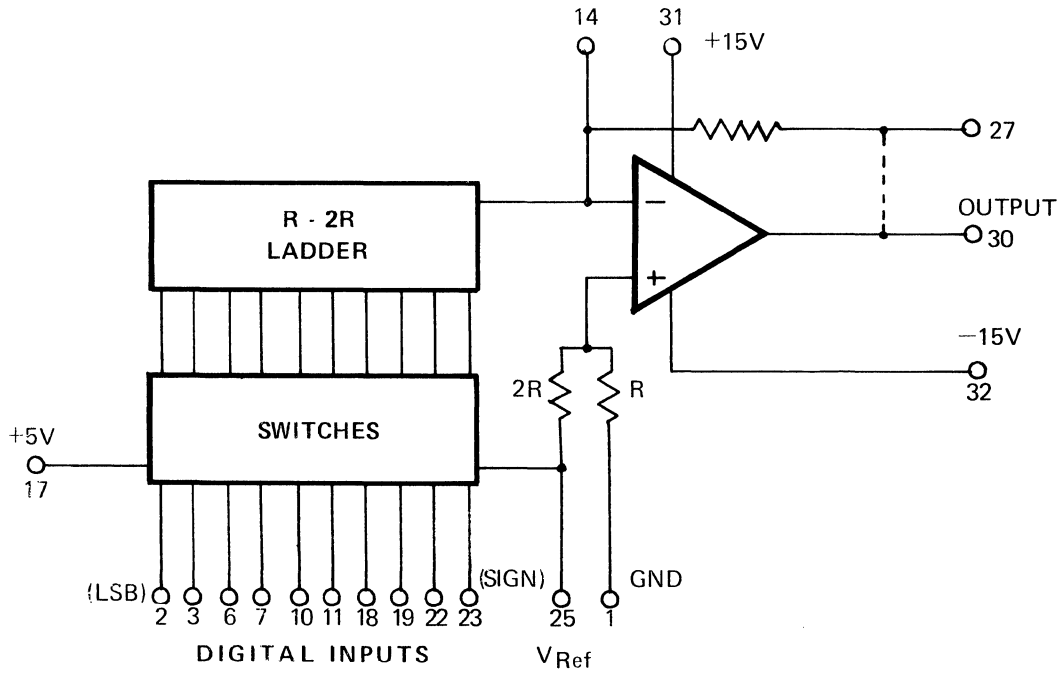
BB139



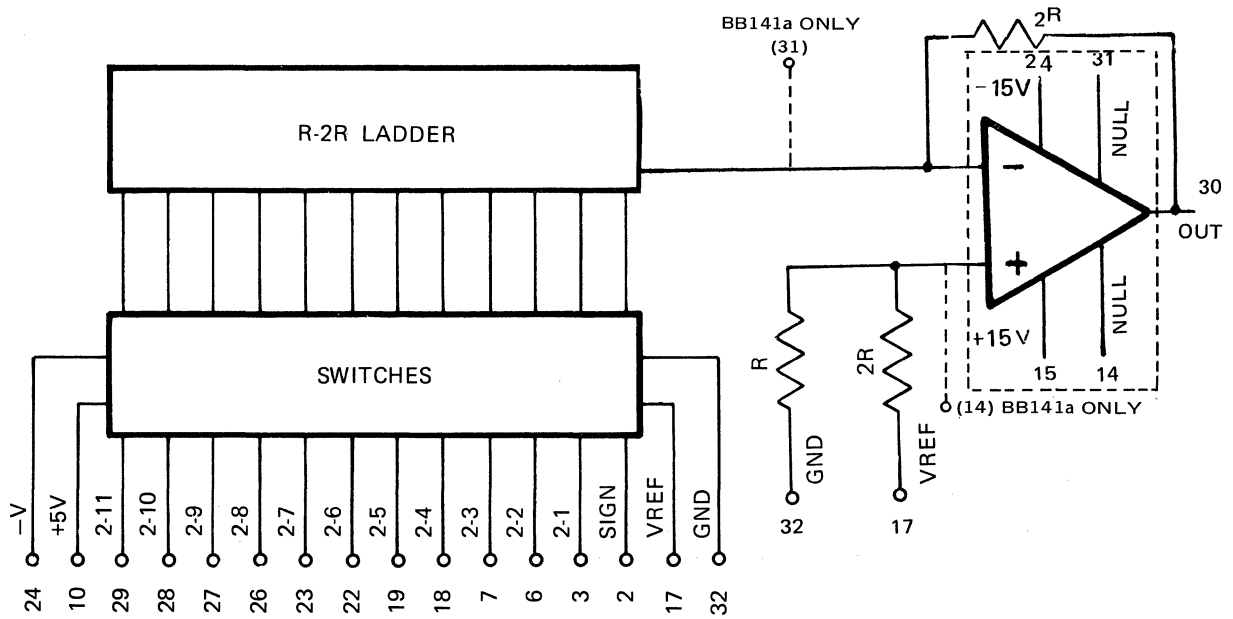
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

BB140



BB141

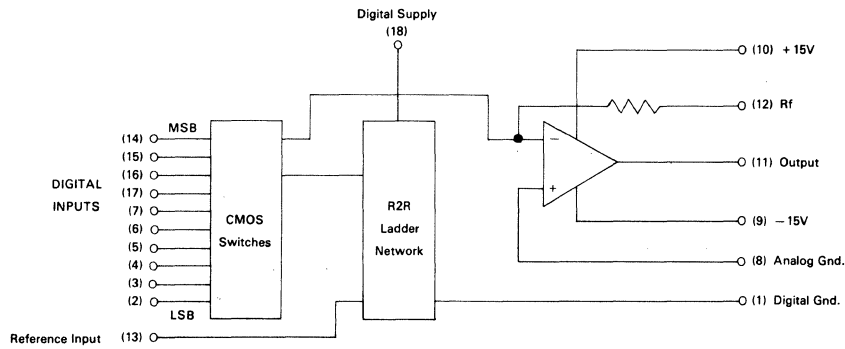


NOTE: ENCLOSED OUTPUT AMPLIFIER CIRCUITRY BB141 ONLY

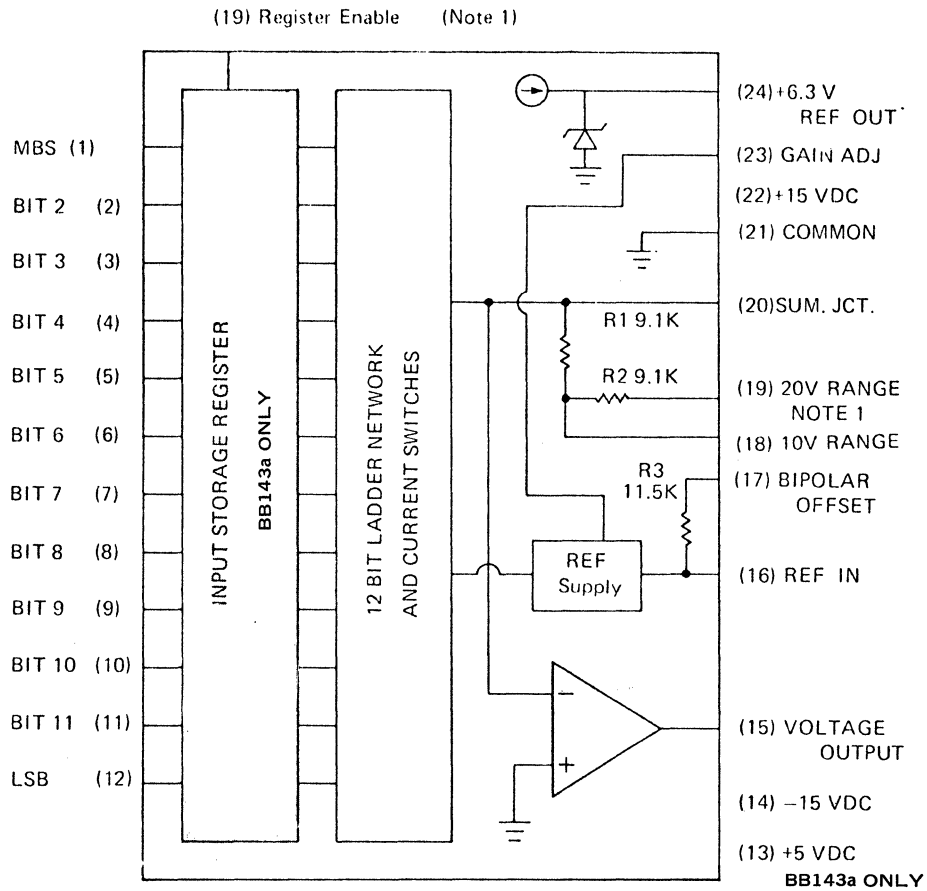
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

BB142



BB143

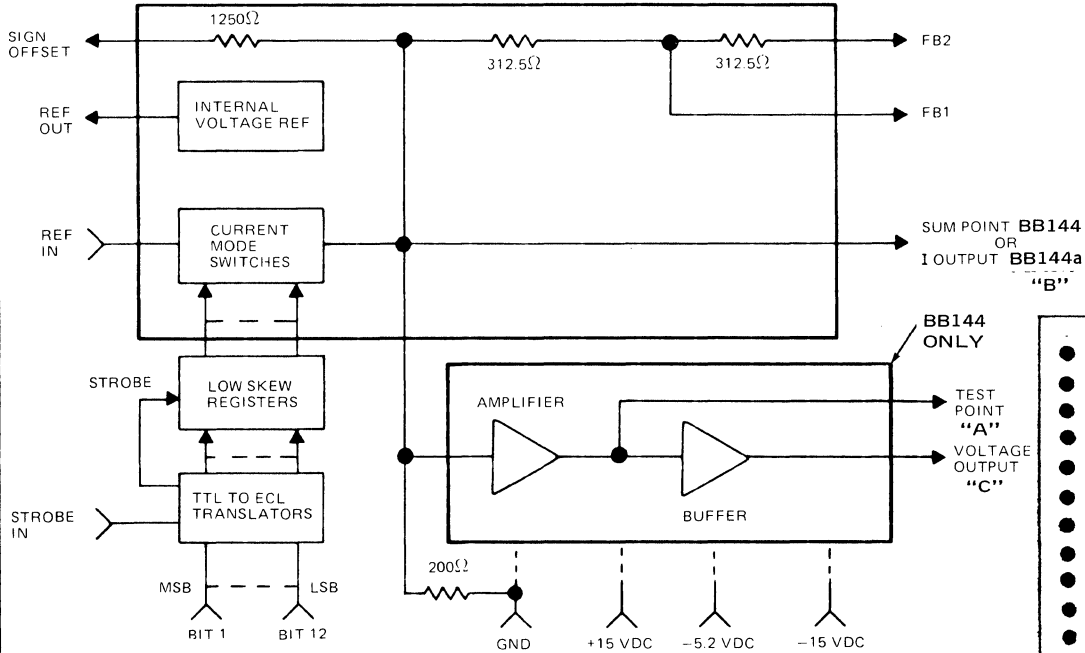


NOTE 1: FOR BB143a PIN 19 IS USED FOR THE INPUT REGISTER ENABLE, AND FOR BB143 THIS PIN IS USED WHEN THE ± 10 VOLT OUTPUT RANGE IS SELECTED.

27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

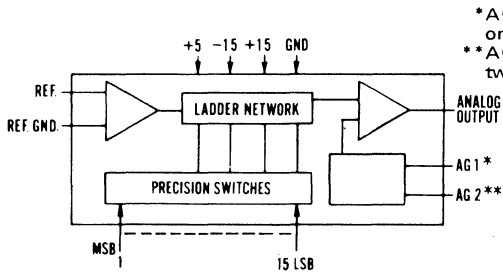
BB144



BB144 ONLY

● GND	● GND	● -15V
● STROBE	● GND	● -5.2V
● 1 MSB		● +5V
● 2		● FB 2
● 3		● FB 1
● 4		● REF IN
● 5		● SIGN
● 6		● GND
● 7		● REF OUT
● 8	(BOTTOM VIEW)	● +15V
● 9		● "A"
● 10		● "B"
● 11		● "C"
● 12 LSB	● GND	● GND
		● +

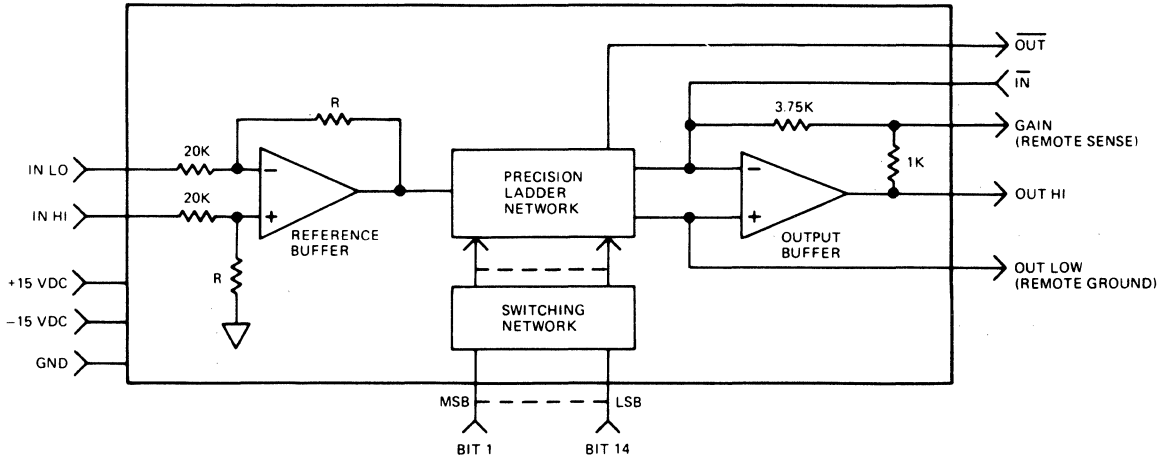
BB145



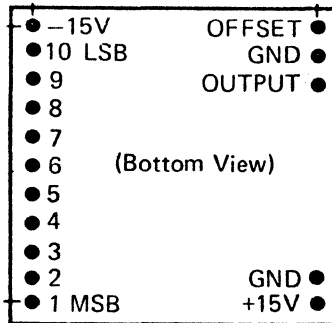
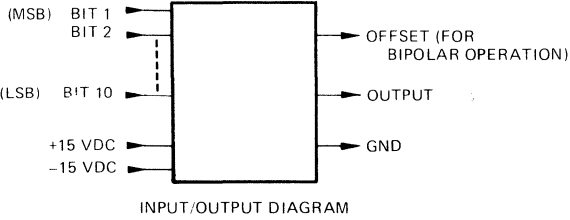
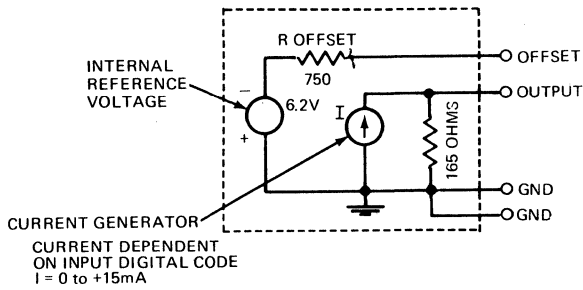
*AG1: ground for one's complement
**AG2: ground for two's complement

● OUT	MSB1
● AG 2	1
● AG 1	2
● REF	3
● REF GND	4
● 15 LSB	5
● +5	6
● +15	7
● GND	13
● -15	14

BB146



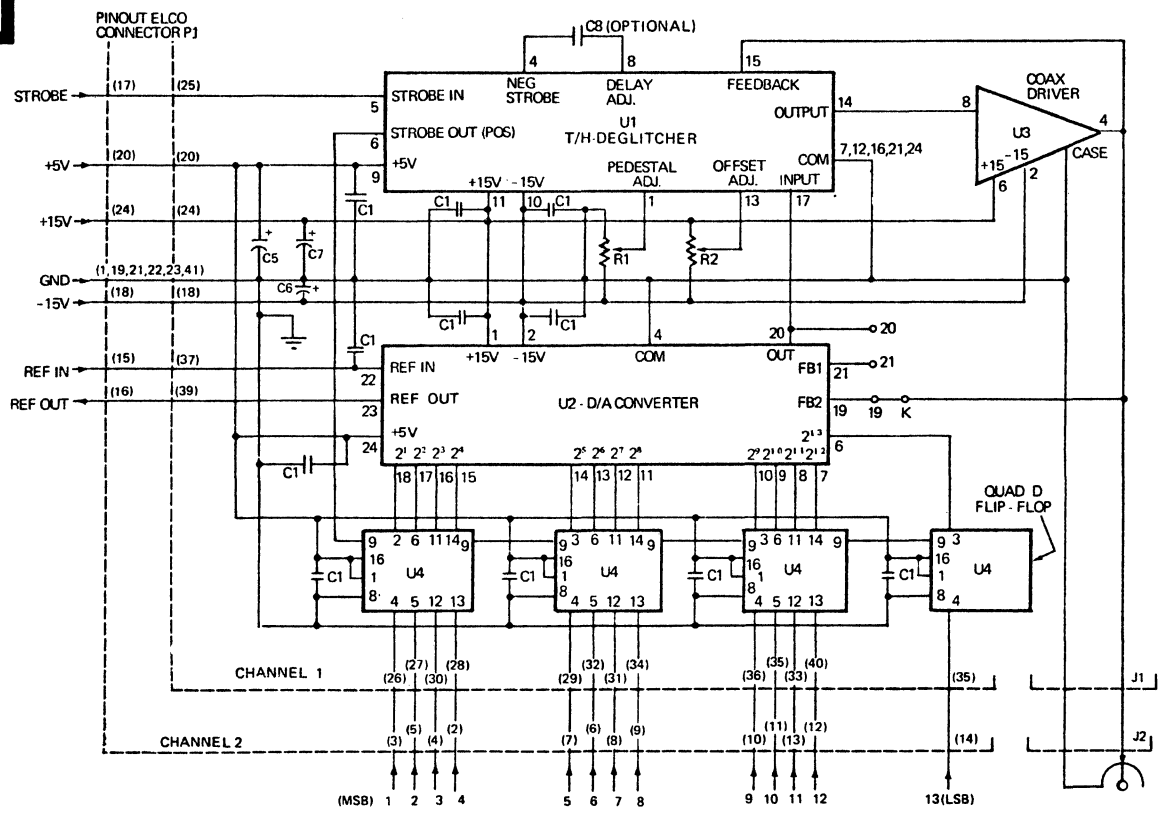
BB147



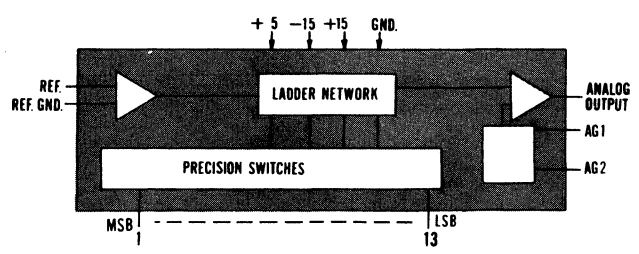
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

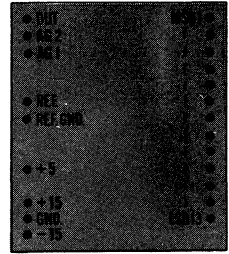
BB148



BB149

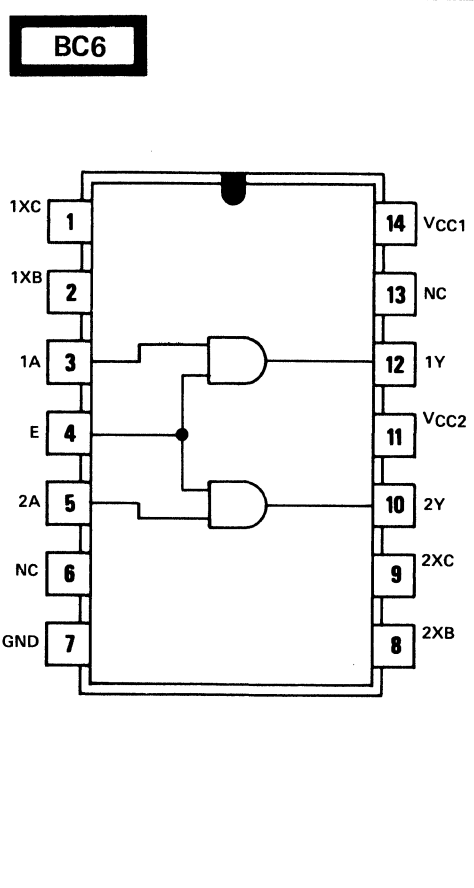
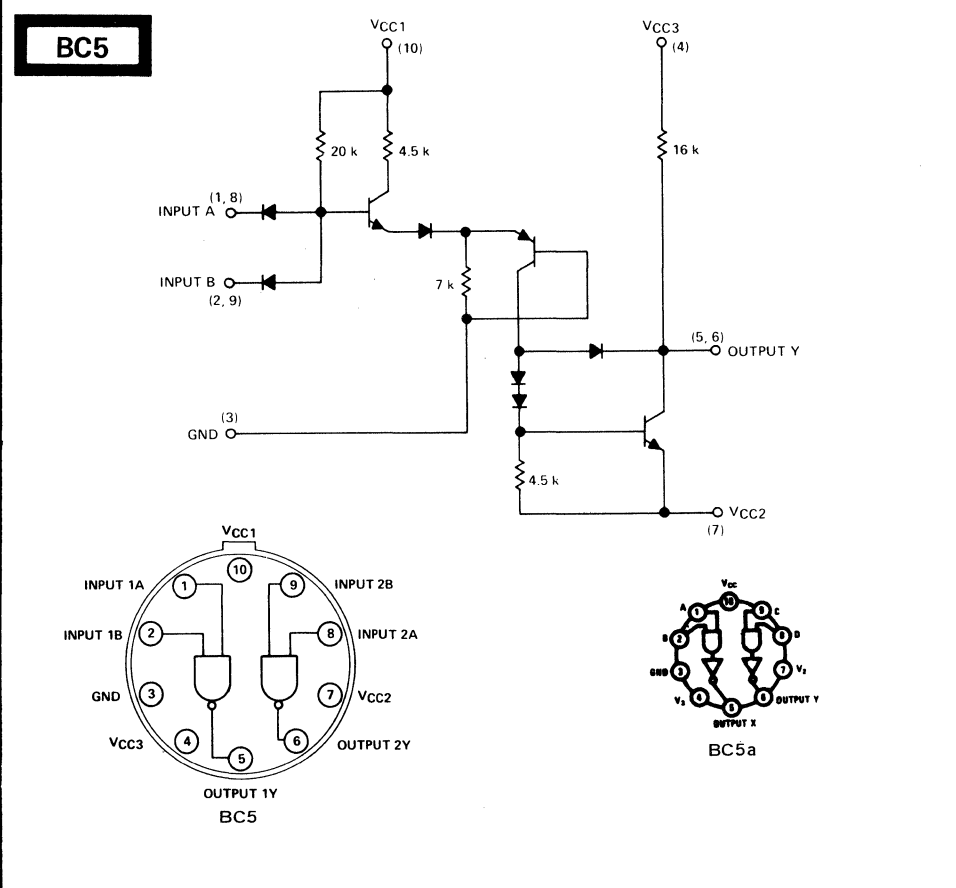
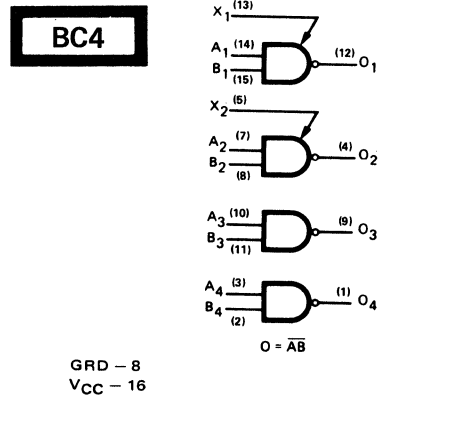
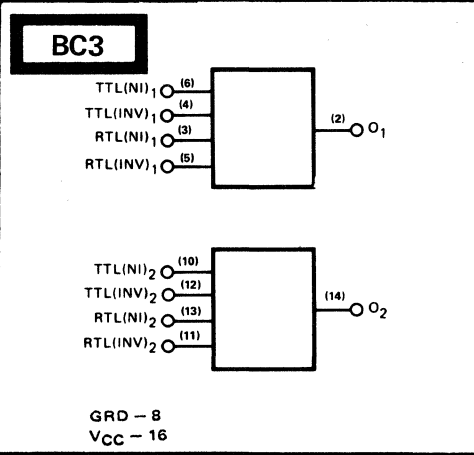
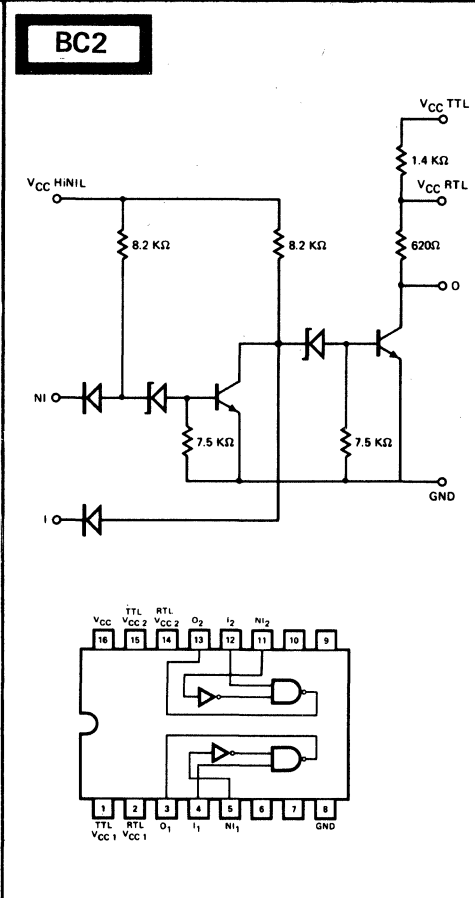
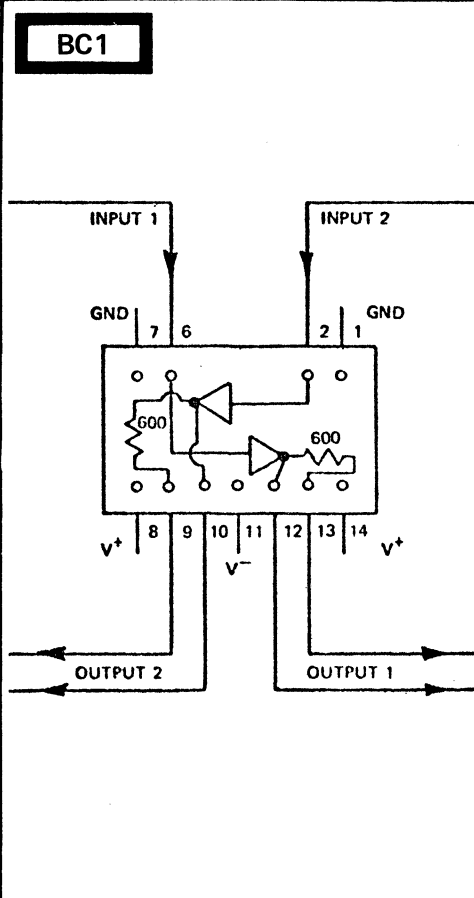


AG1: ground for one's complement
AG2: ground for two's complement



27. LOGIC/BLOCK DRAWINGS

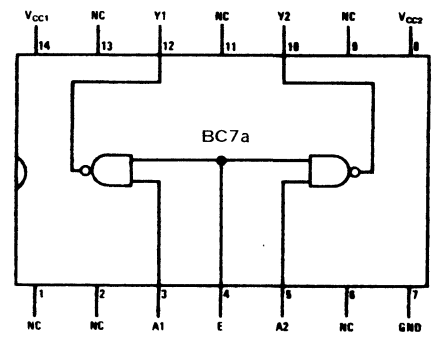
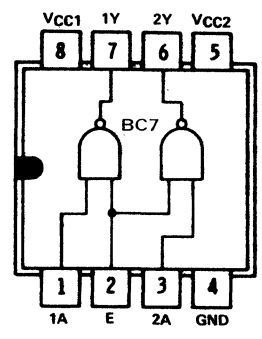
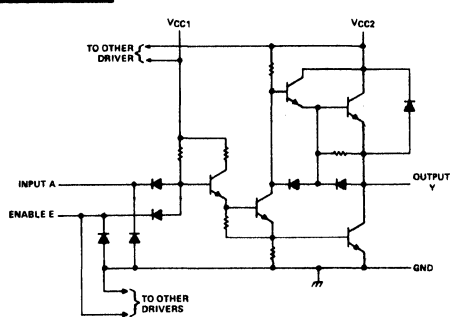
IN DRAWING NUMBER SEQUENCE



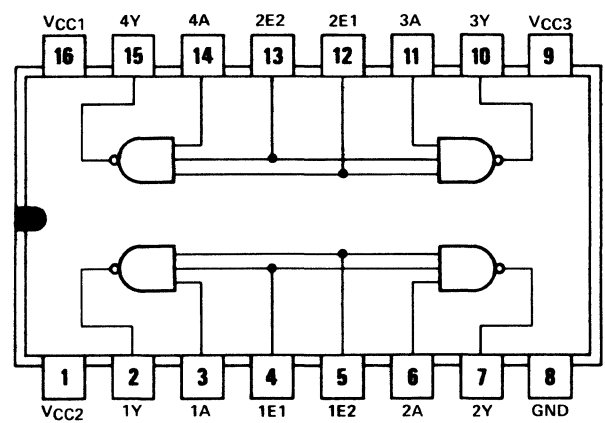
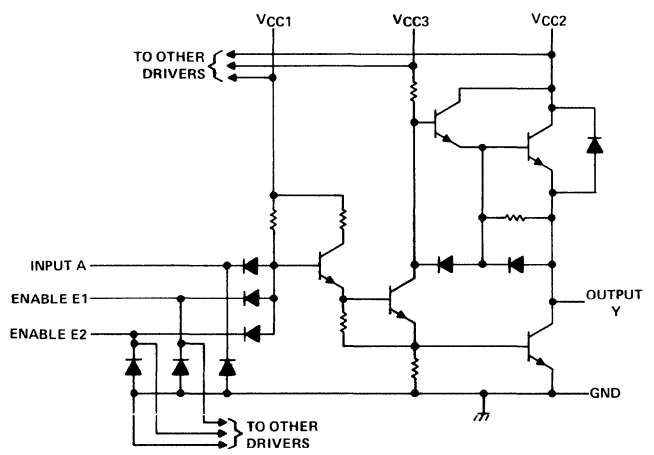
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

BC7



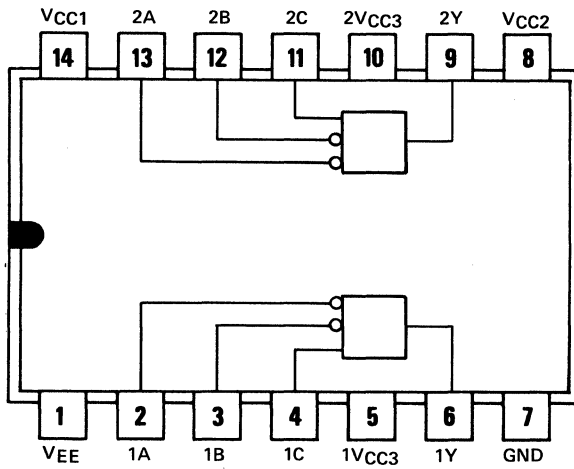
BC8



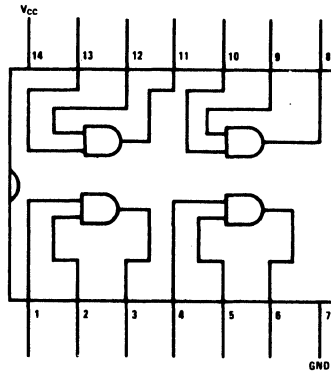
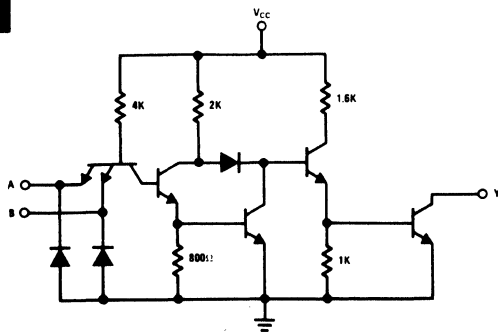
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

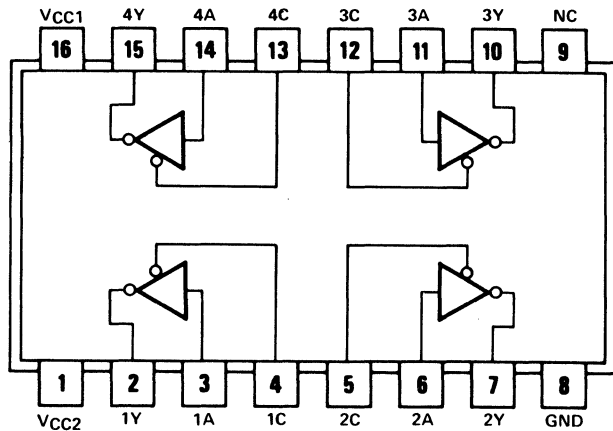
BC9



BC10



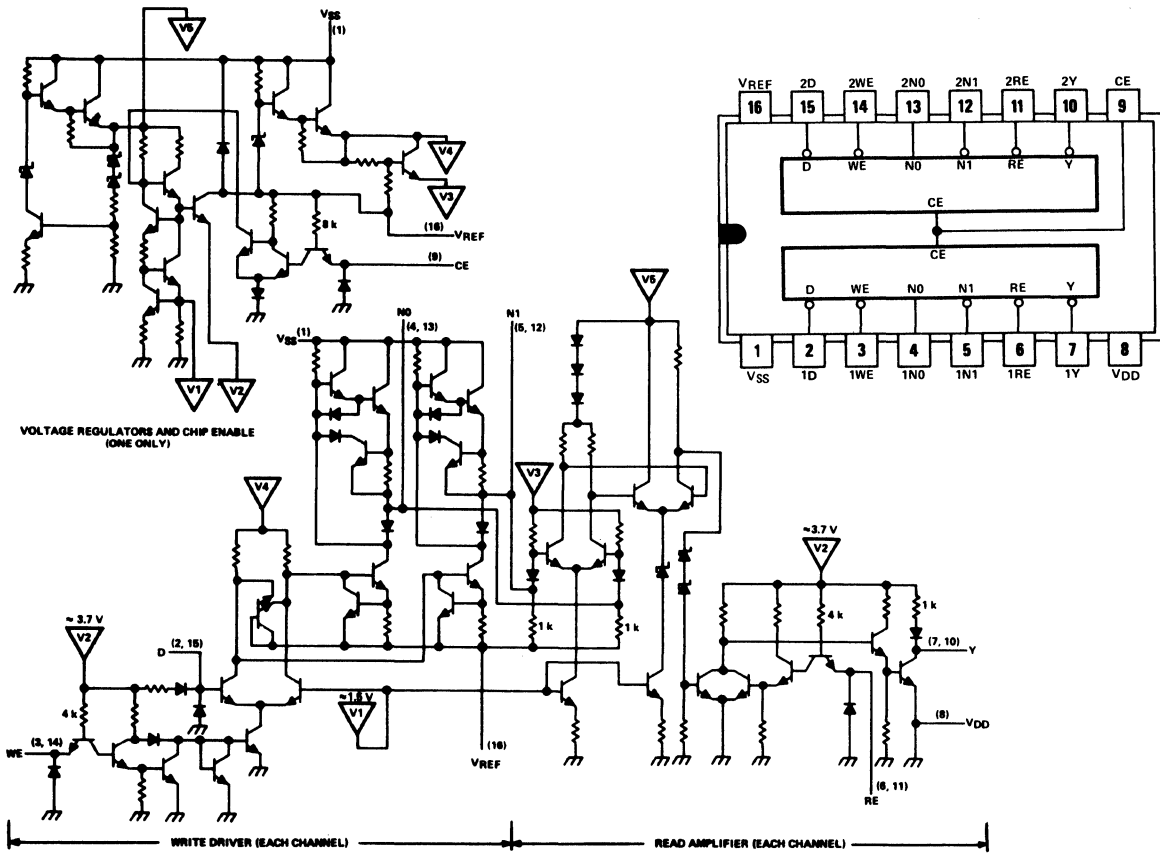
BC11



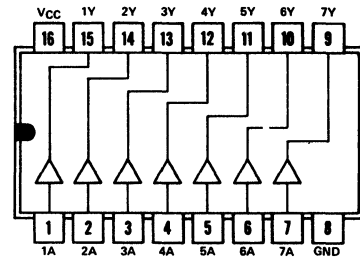
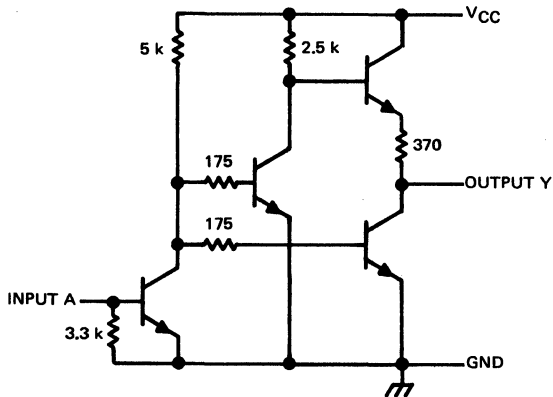
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

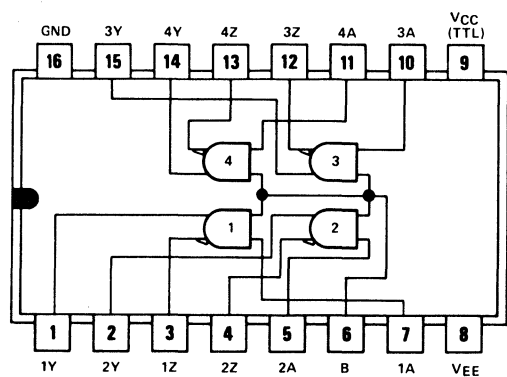
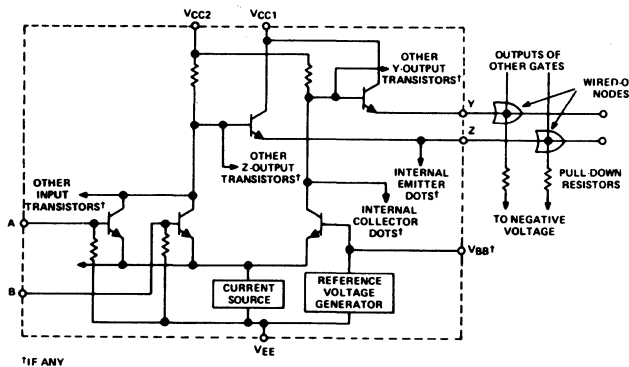
BC12



BC13



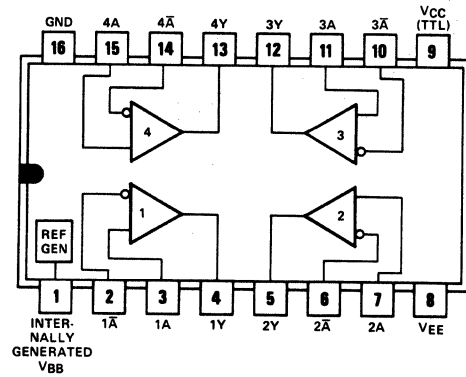
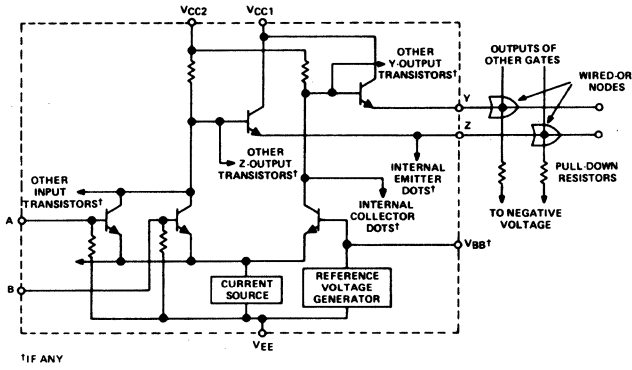
BC14



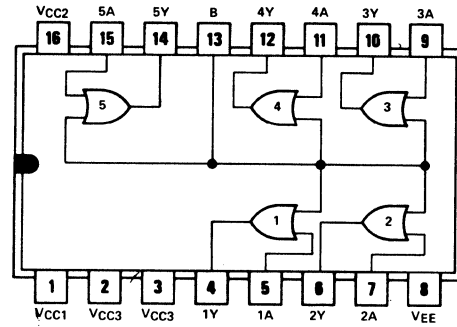
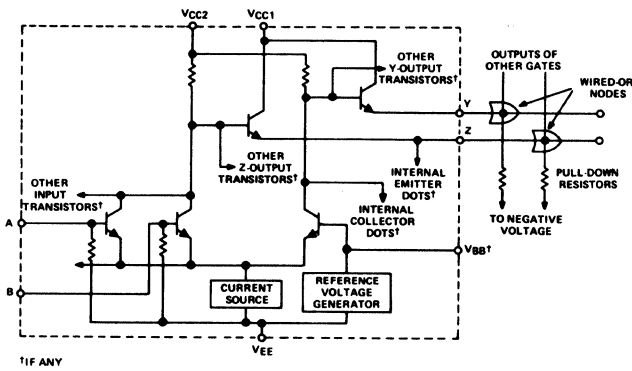
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

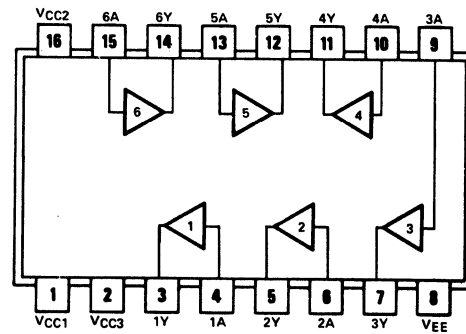
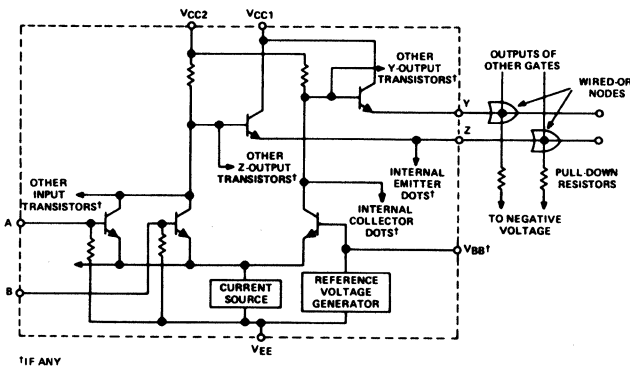
BC15



BC16



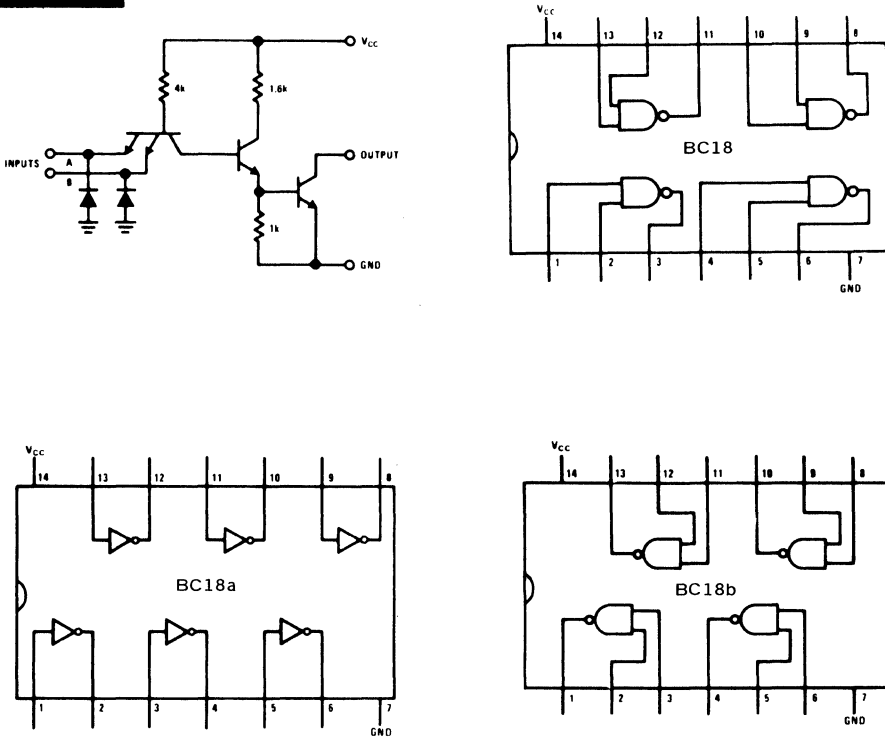
BC17



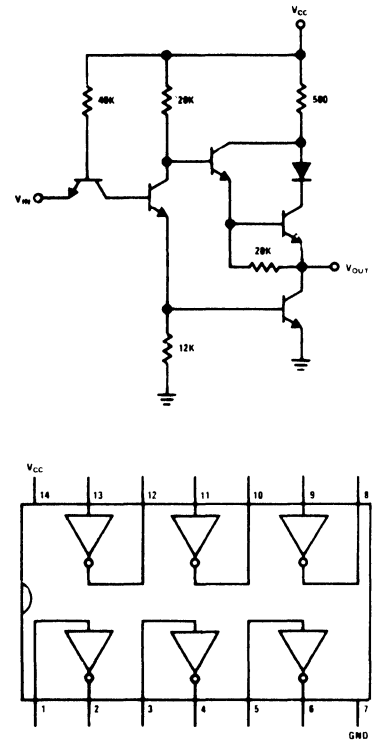
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

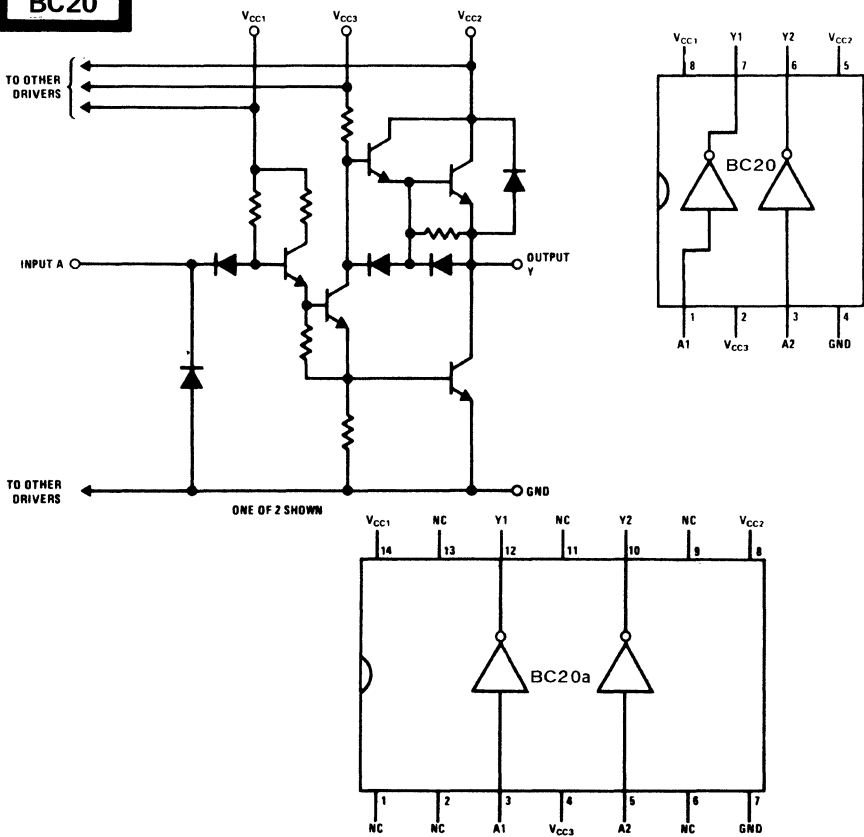
BC18



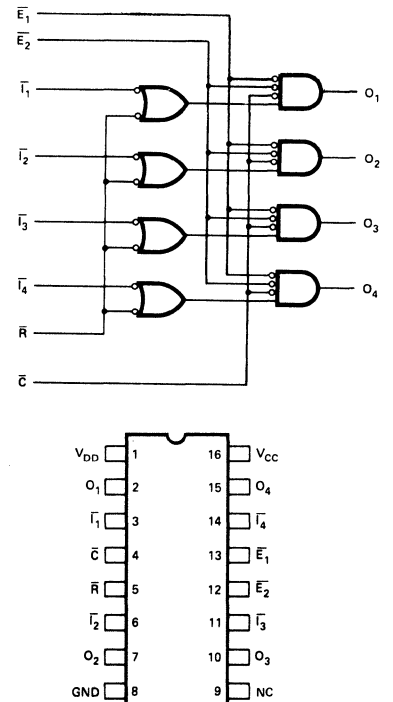
BC19



BC20



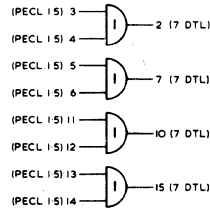
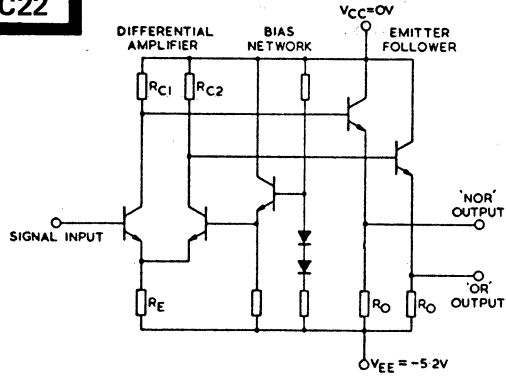
BC21



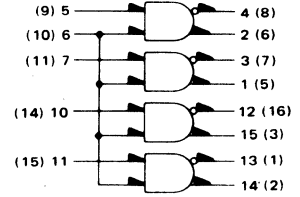
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

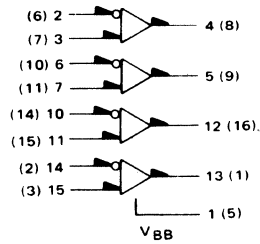
BC22



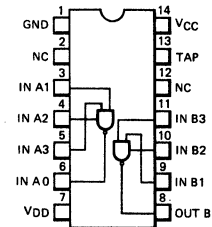
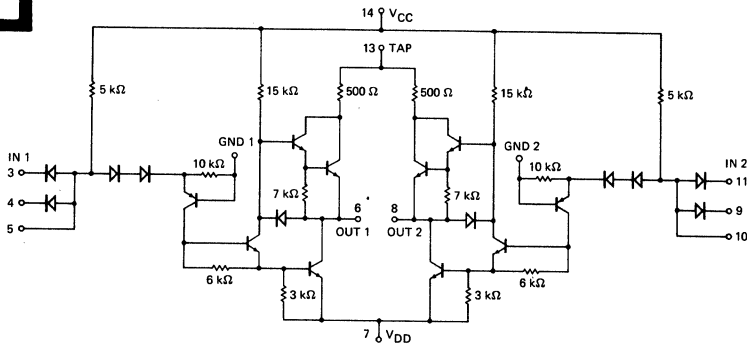
BC23



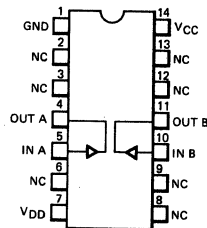
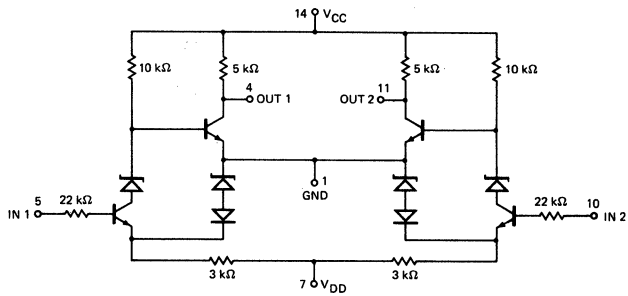
BC24



BC25



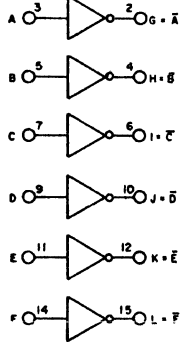
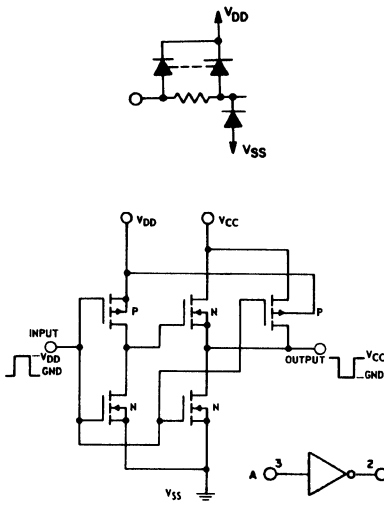
BC26



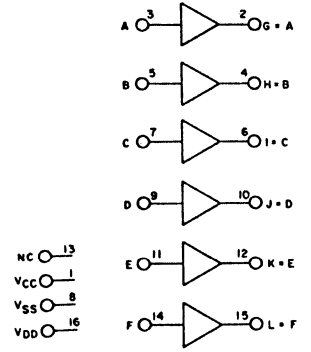
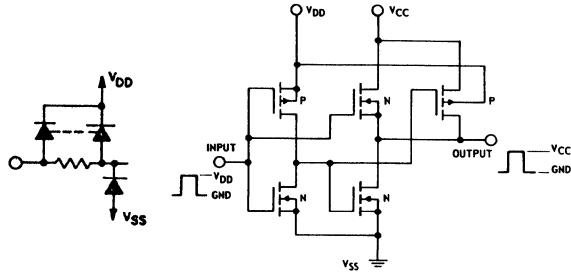
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

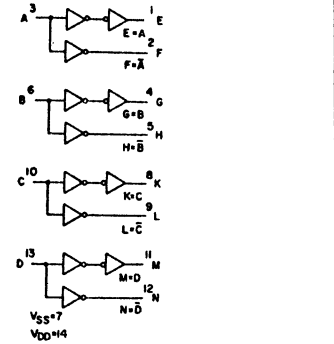
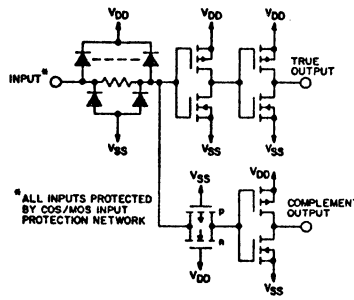
BC27



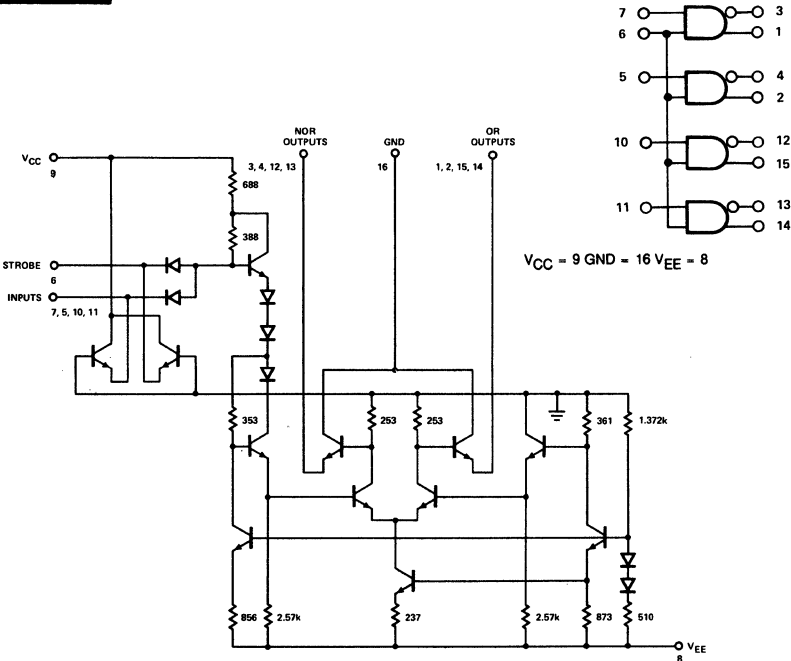
BC28



BC29



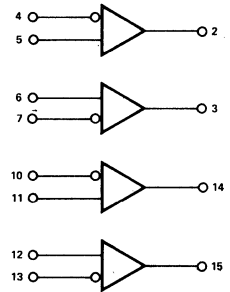
BC30



VCC = 9 GND = 16 VEE = 8

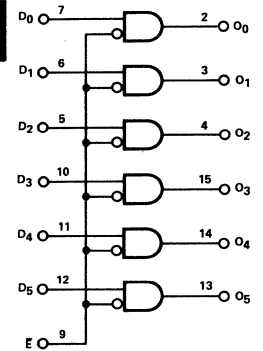
NOTE: ALL RESISTORS VALUES ARE TYPICAL AND IN OHMS.

BC31



t_{pd} = 2.5 ns TYP
VCC = 9, VEE = 8, GND = 1.16

BC32

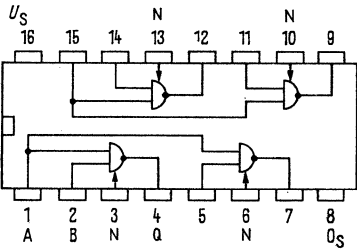


t_{pd} (data) = 2.2 ns TYP
t_{pd} (E) = 2.8 ns TYP.
VCC = 1, VEE = 8, GND = 16

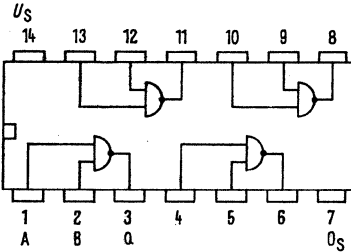
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

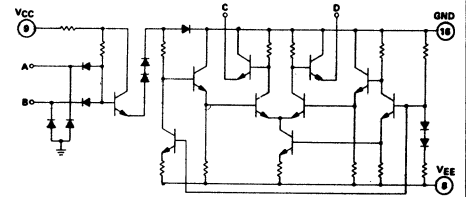
BC33



BC34

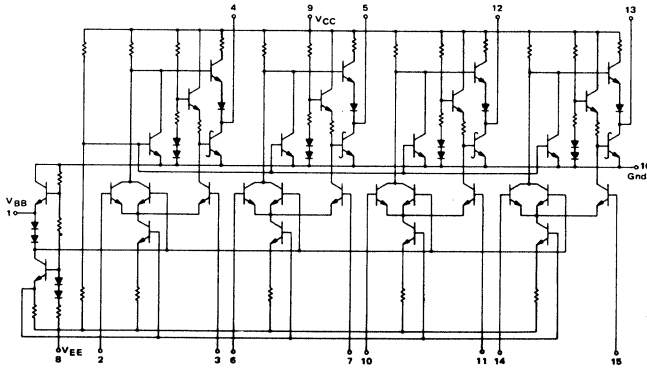


BC35

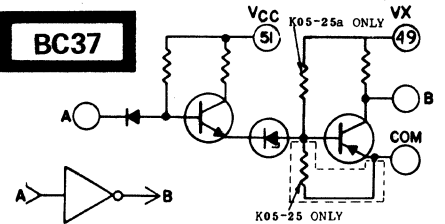


	CKT	A	B	C	D
BC35	1	5	6	4	2
	2	7	6	3	1
	3	10	6	12	15
	4	11	6	13	14

BC36

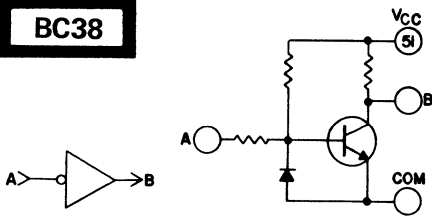


BC37



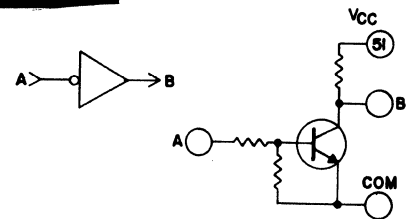
	CKT No.	A	B	VX	COM
BC37	1	11	7		1,
	2	19	15		2,
	3	29	25	49	39,
	4	37	33		52
	5	45	43		
BC37a	1	11	7		1,
	2	19	15		2,
	3	29	25	39,	1,
	4	37	33	49	2,
	5	45	43		52

BC38



CKT NO.	A	B	COM
1	11	7	
2	19	15	
3	29	25	1,
4	37	33	52
5	45	43	

BC39

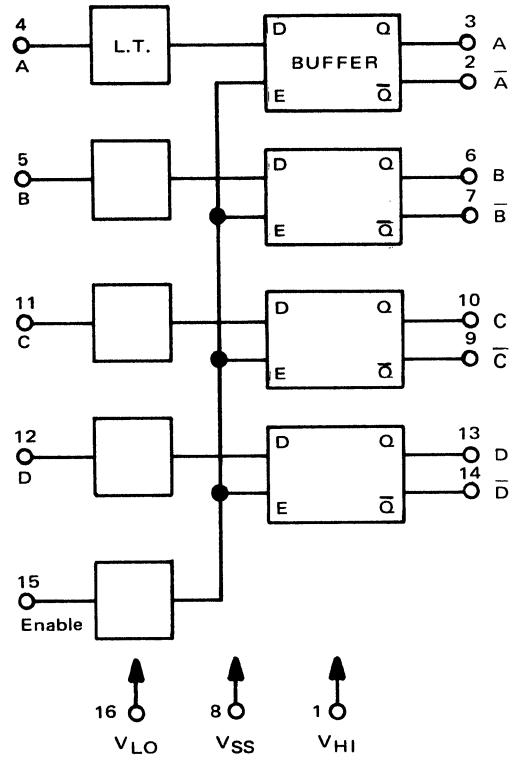


CKT NO.	A	B	COM
1	11	7	
2	19	15	
3	29	25	1,
4	37	33	52
5	45	43	

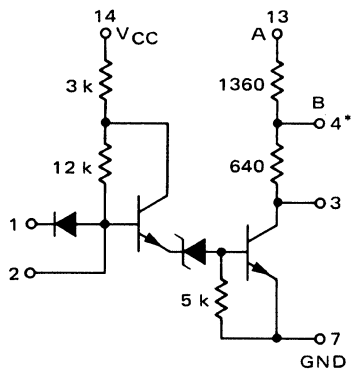
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

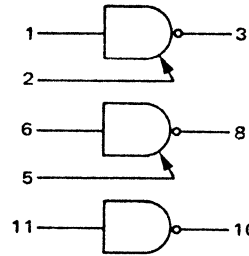
BC40



BC41



1/3 OF CIRCUIT SHOWN



V_{CC}=14
GND=7

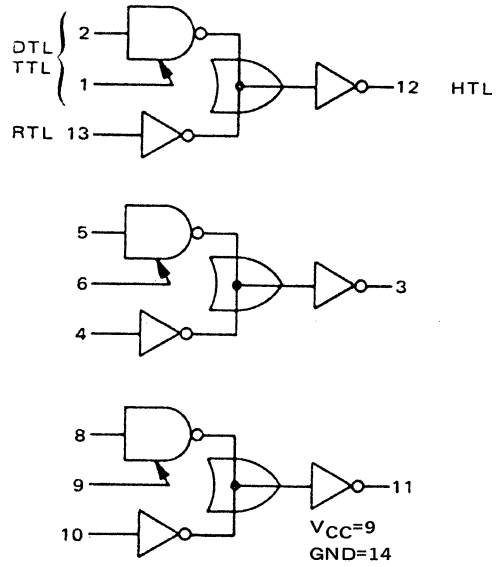
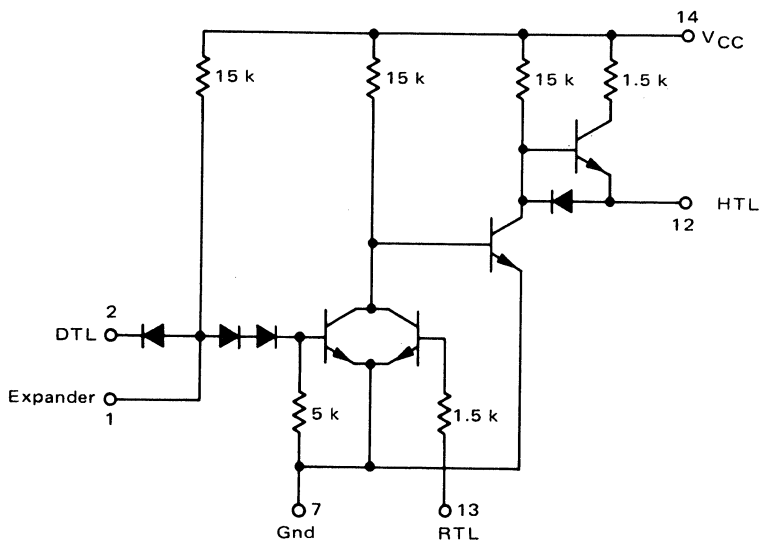
*Use pin 9 for second transistor and pin 12 for third transistor.

27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

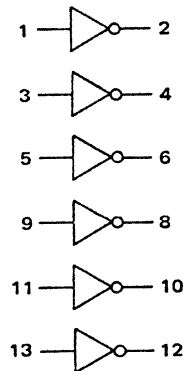
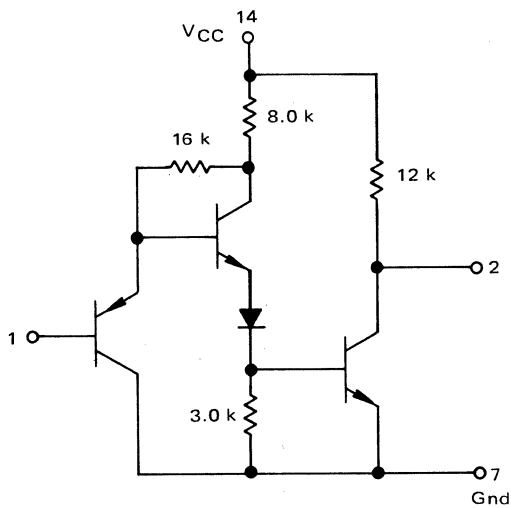
BC42

1/3 OF CIRCUIT SHOWN



BC43

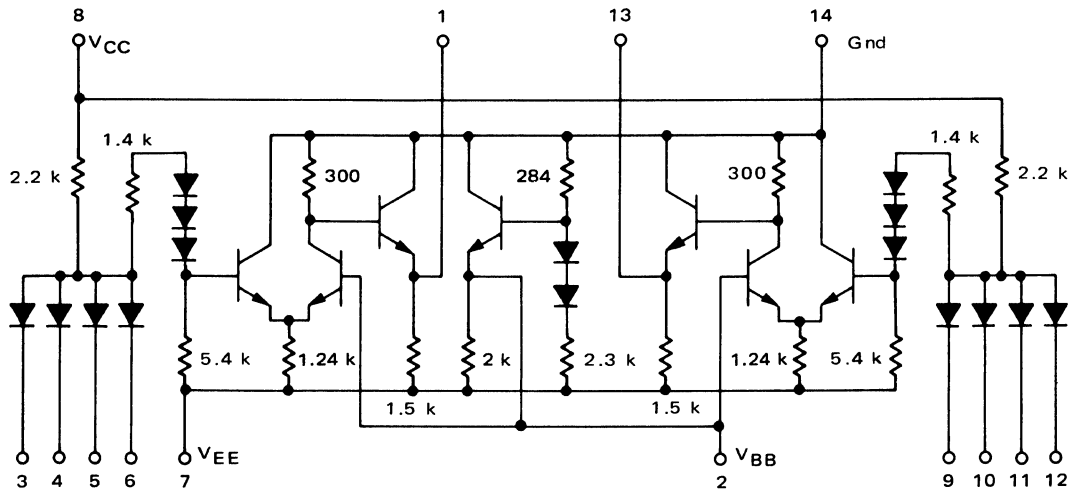
1/6 OF CIRCUIT SHOWN



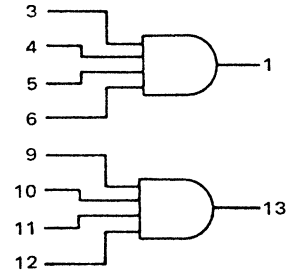
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

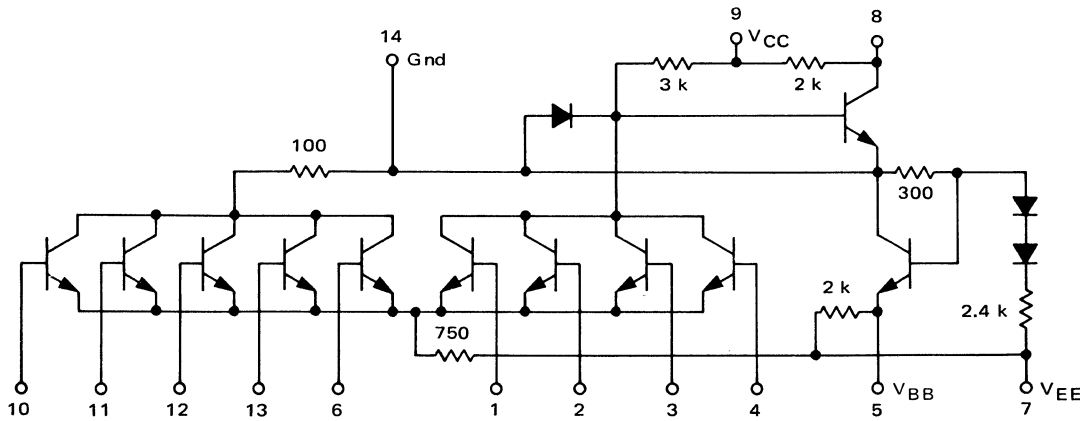
BC44



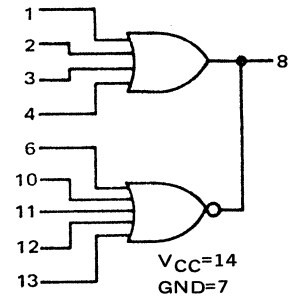
Resistor values are nominal.



BC45



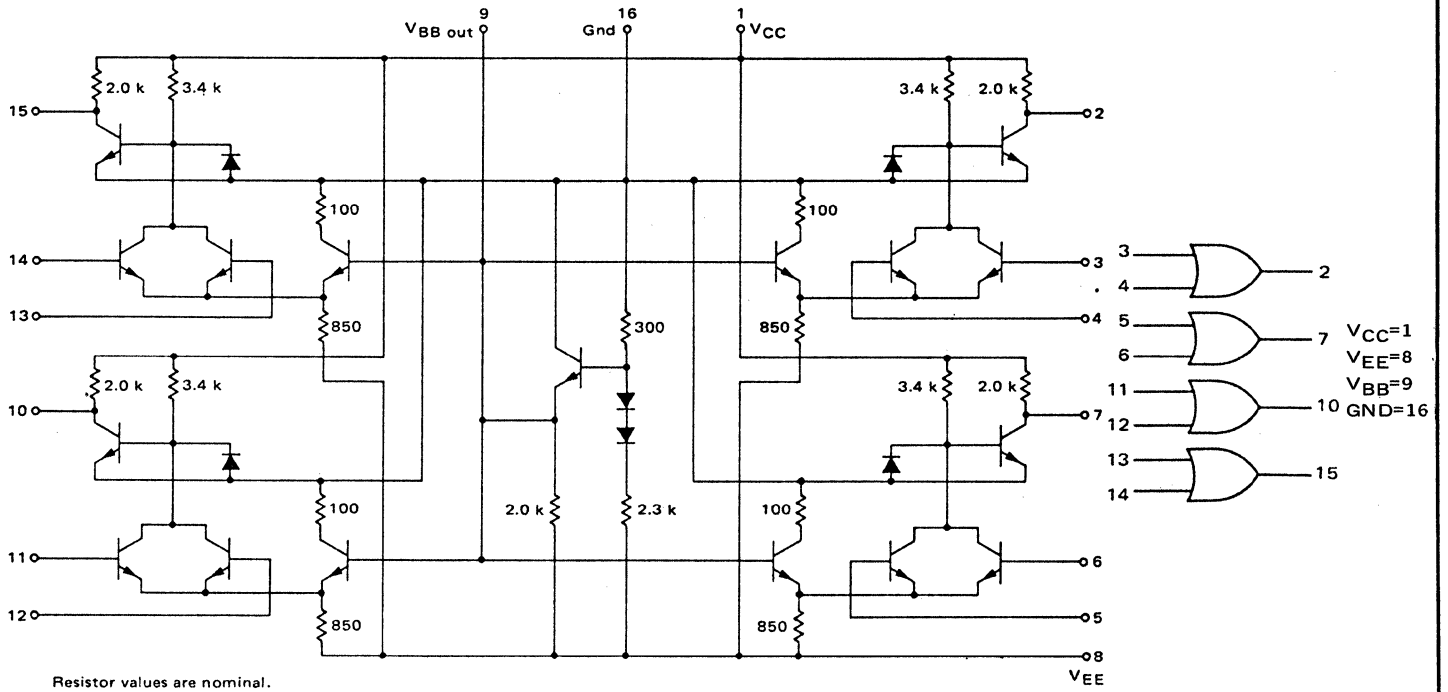
Resistor values are nominal.



27. LOGIC/BLOCK DRAWINGS

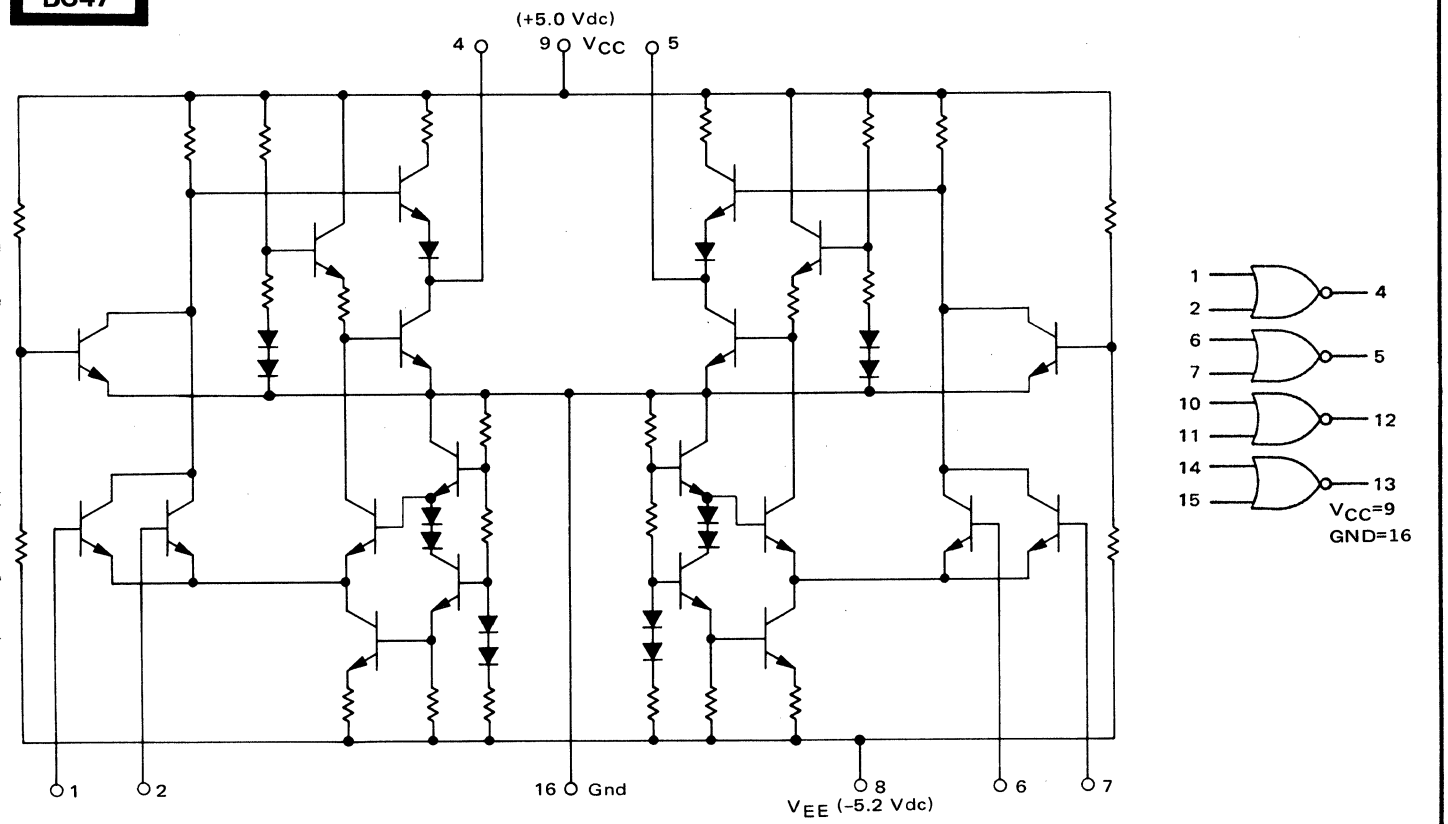
IN DRAWING NUMBER
SEQUENCE

BC46



BC47

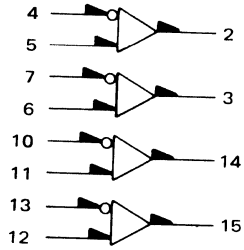
1/2 OF CIRCUIT SHOWN



27. LOGIC/BLOCK DRAWINGS

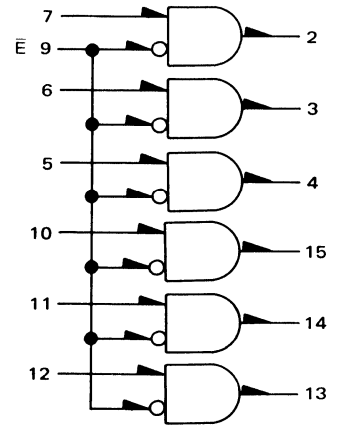
IN DRAWING NUMBER
SEQUENCE

BC48



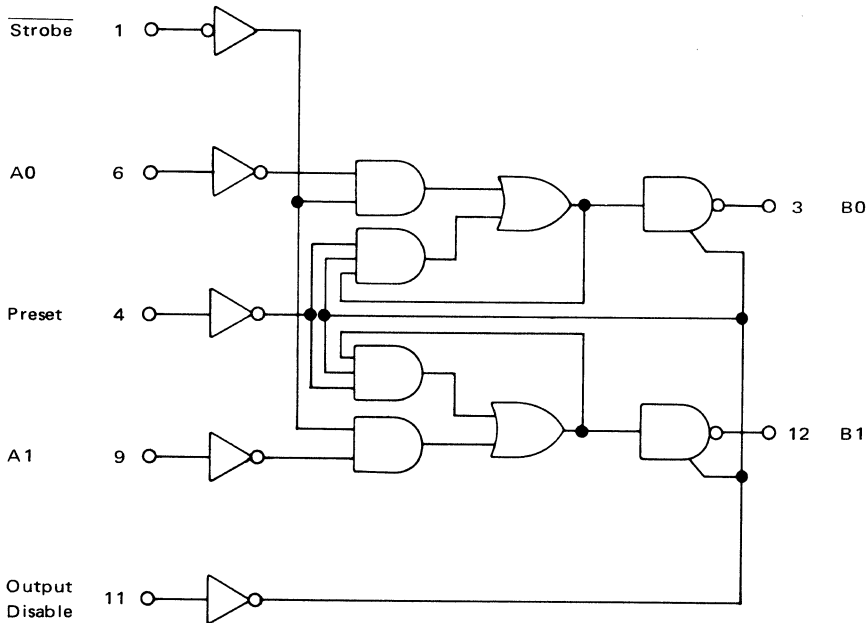
V_{CC1} = Pin 1
V_{CC2} = Pin 16
V_{EE} = Pin 8
V_{SS} = Pin 9 Translator
V_{CC} = Pin 9 Receiver

BC49



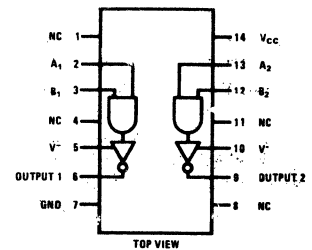
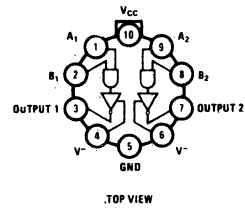
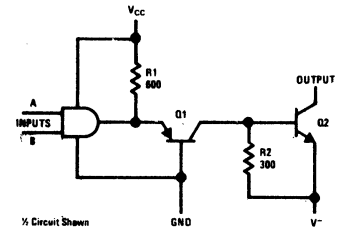
V_{CC1} = Pin 1
V_{CC2} = Pin 16
V_{EE} = Pin 8

BC50



V_{CC} = Pin 14
Gnd = Pin 7

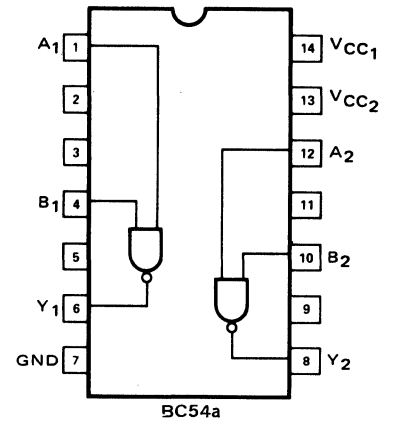
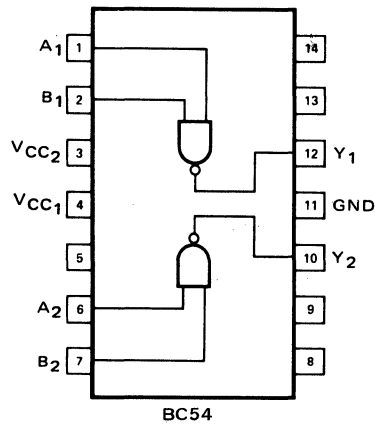
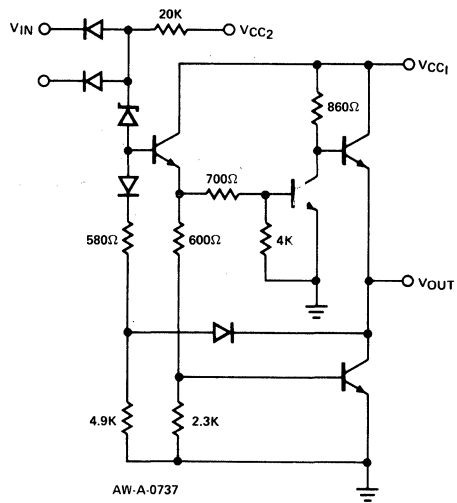
BC52



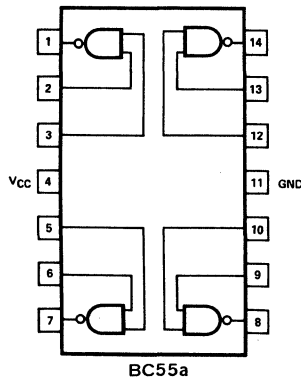
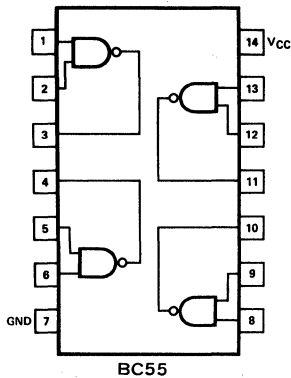
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

BC54

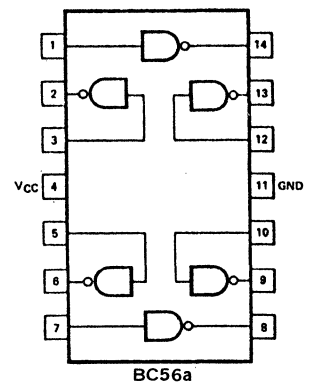
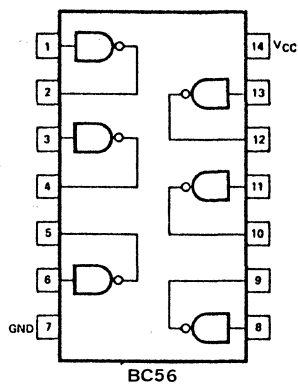


BC55



BC56

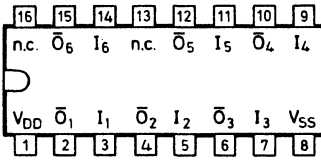
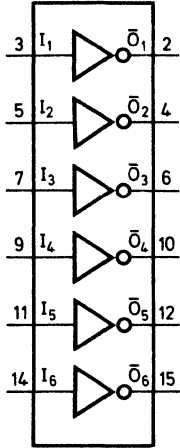
BC56



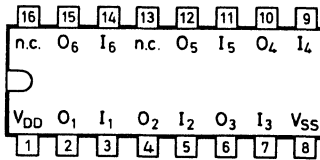
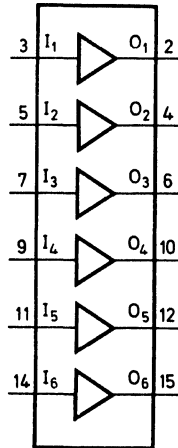
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

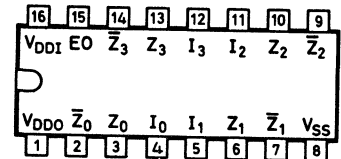
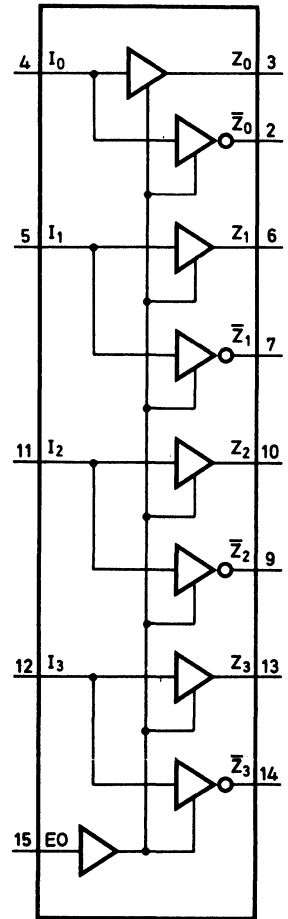
BC57



BC58



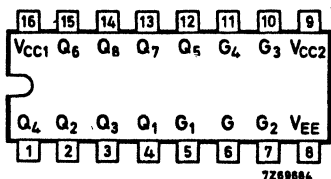
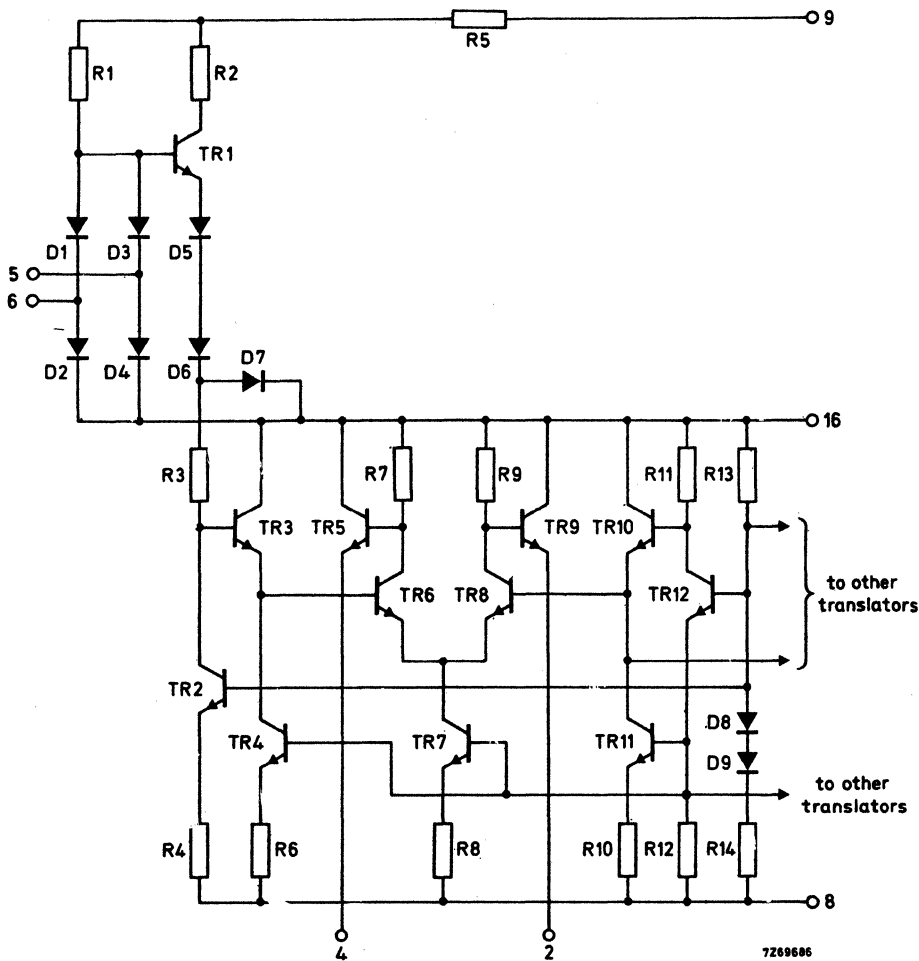
BC59



27. LOGIC/BLOCK DRAWINGS

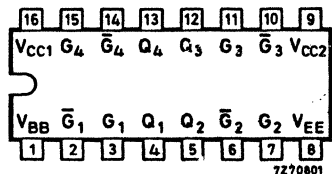
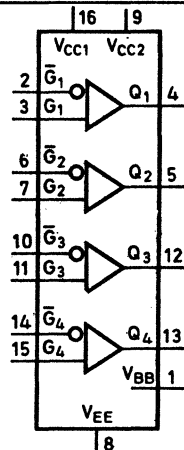
IN DRAWING NUMBER SEQUENCE

BC60



BC61

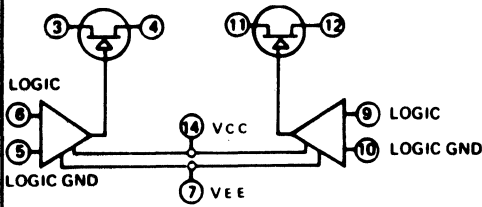
BC61



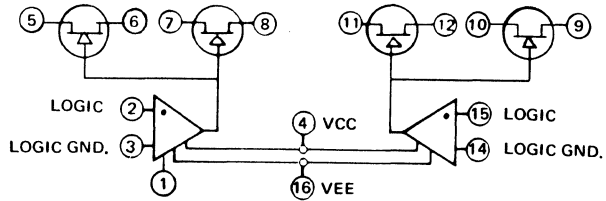
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

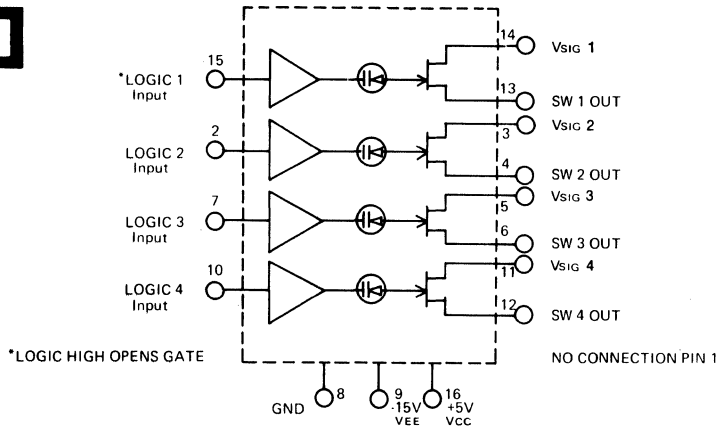
CA8



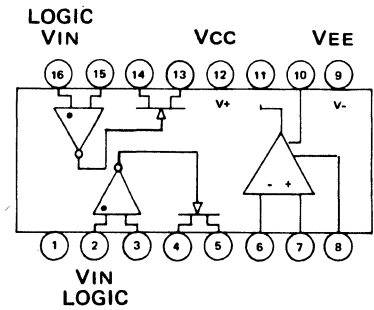
CA9



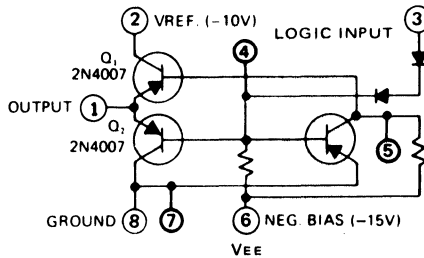
CA10



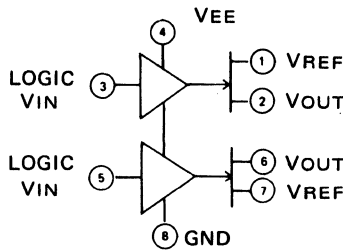
CA11



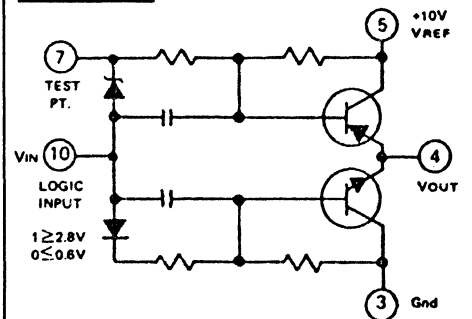
CA12



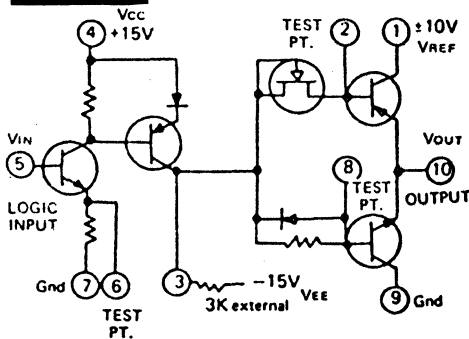
CA13



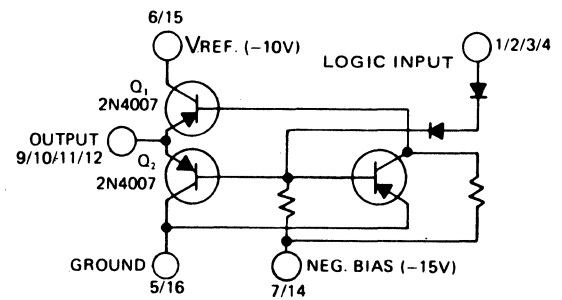
CA14



CA15



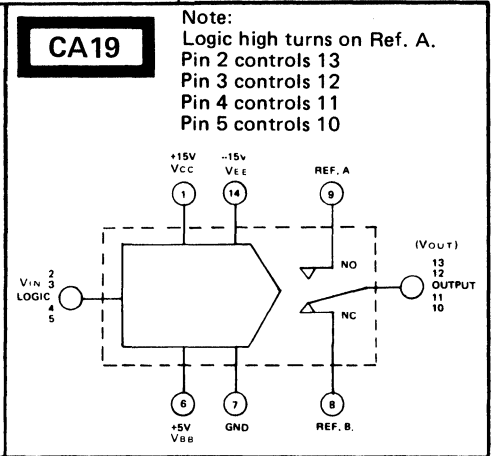
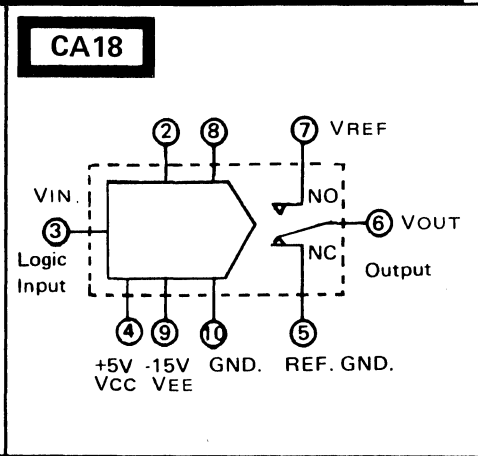
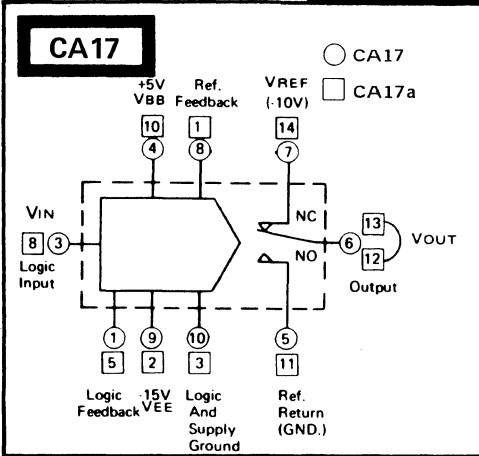
CA16



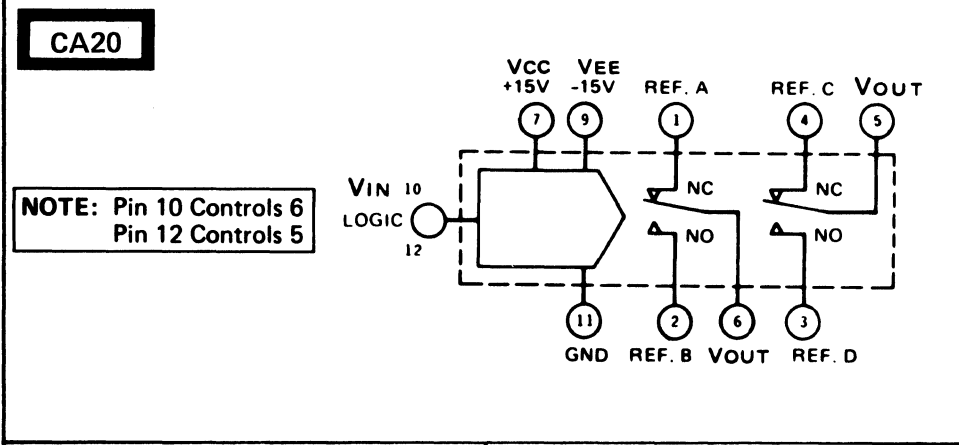
There are 4 circuits per package; Pin 1 input drives Pin 12 output, 2 drives 11, 3 drives 10, 4 drives 9

27. LOGIC/BLOCK DRAWINGS

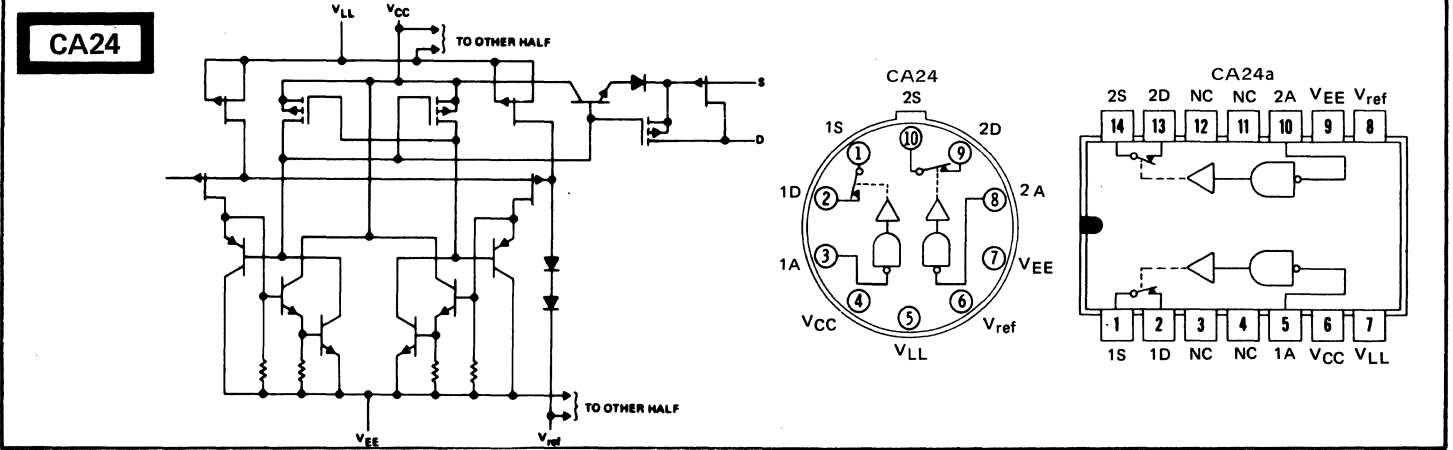
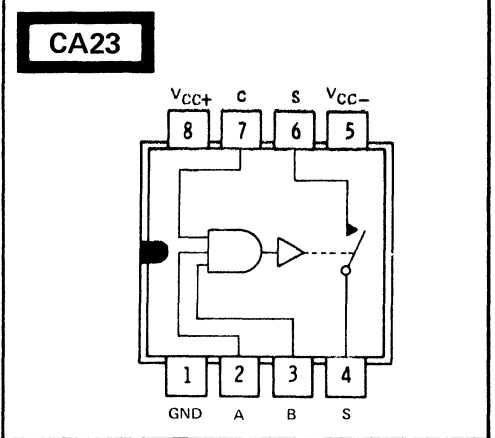
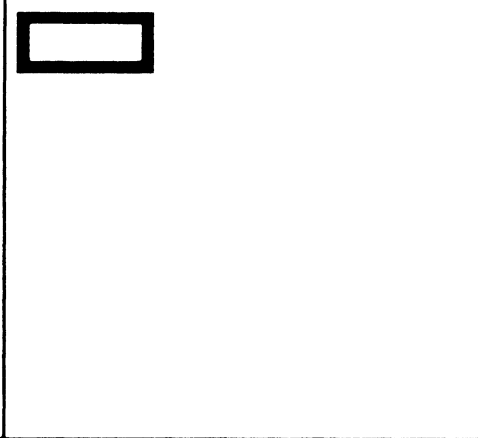
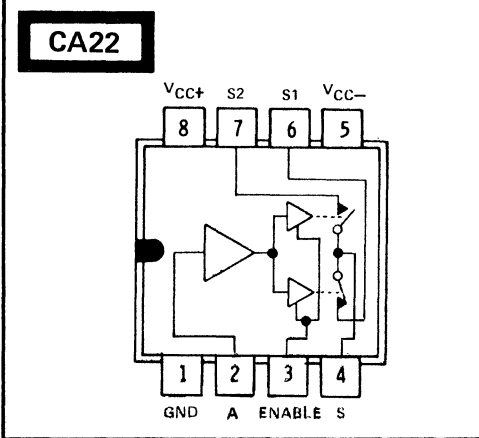
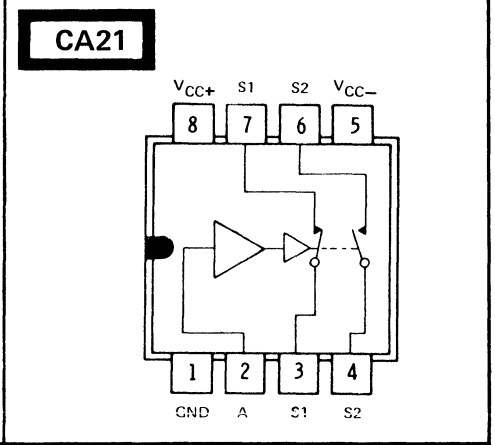
IN DRAWING NUMBER
SEQUENCE



Note:
Logic high turns on Ref. A.
Pin 2 controls 13
Pin 3 controls 12
Pin 4 controls 11
Pin 5 controls 10



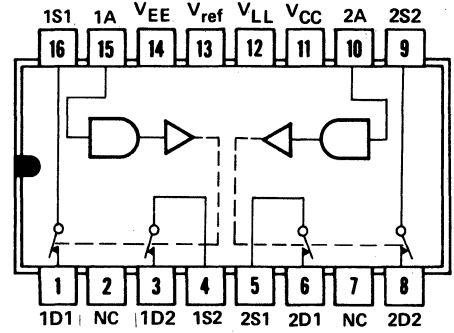
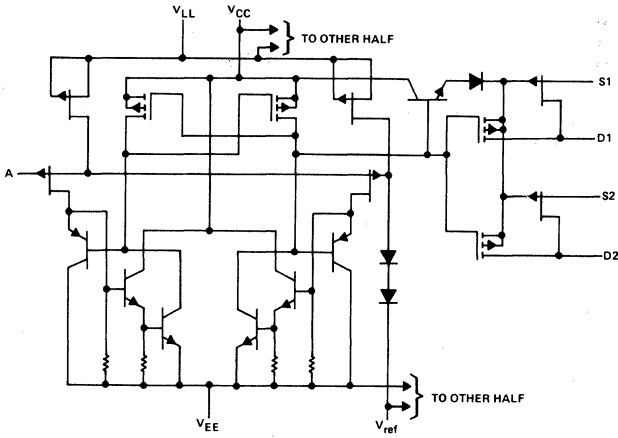
NOTE: Pin 10 Controls 6
Pin 12 Controls 5



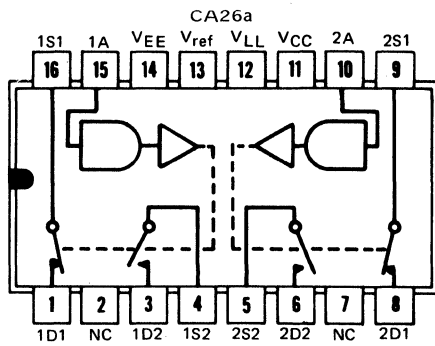
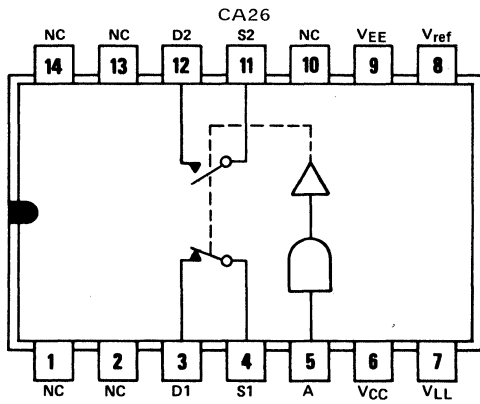
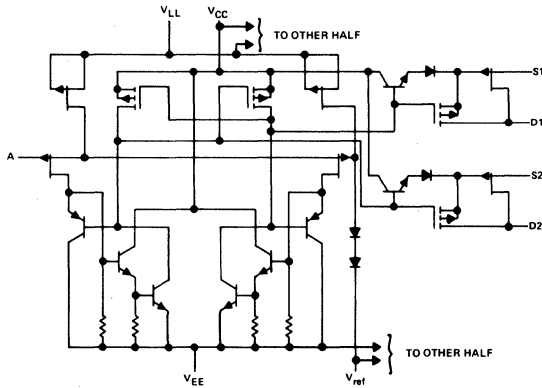
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

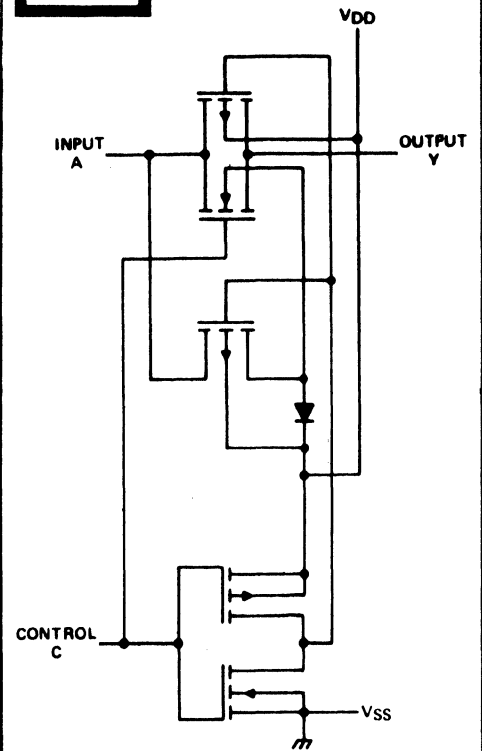
CA25



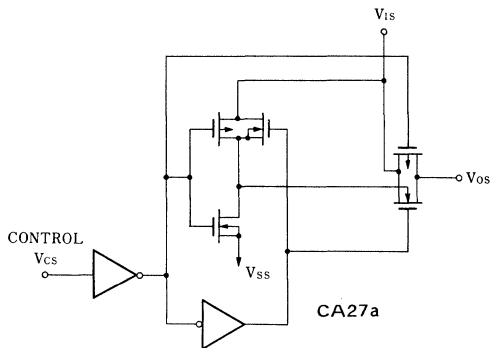
CA26



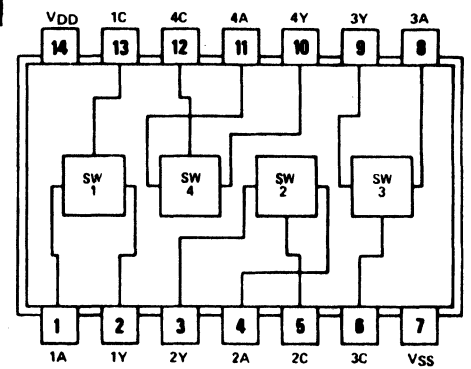
CA27



CA27



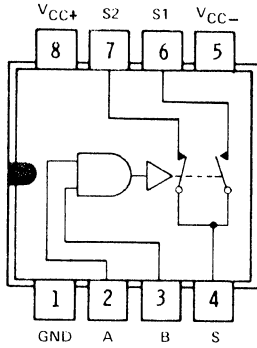
CA27a



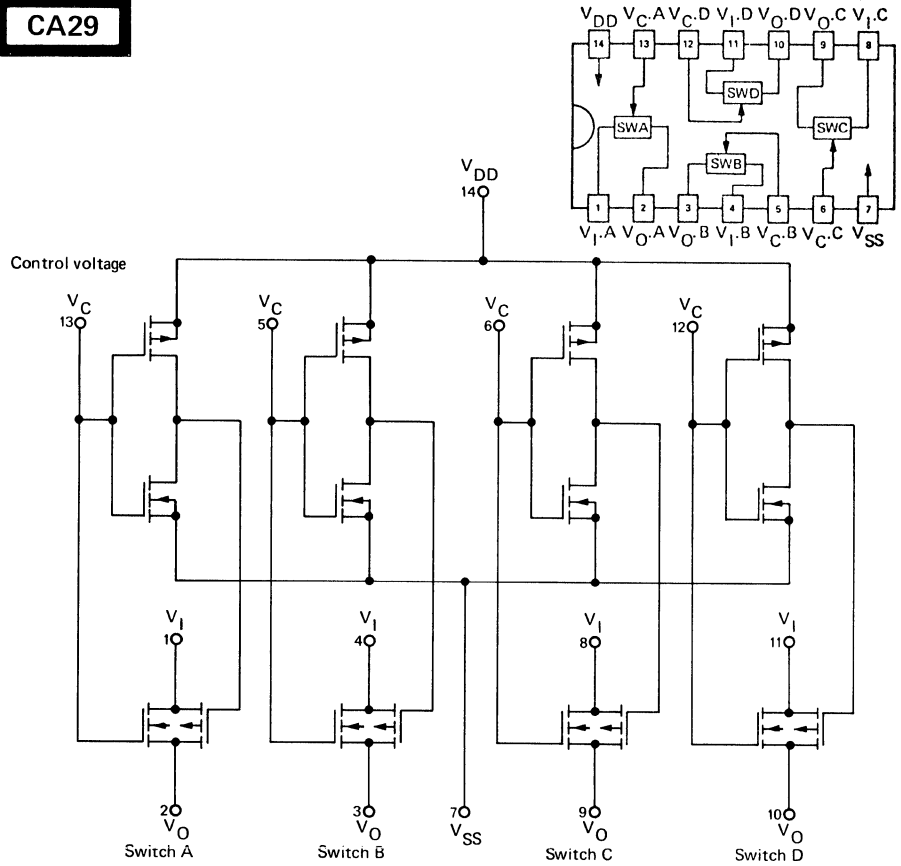
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

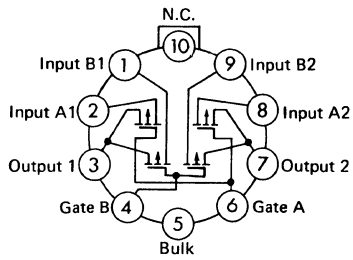
CA28



CA29

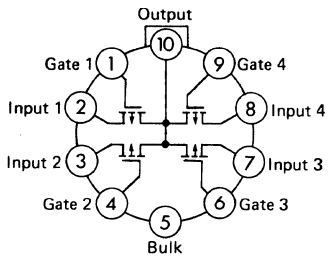


CA30



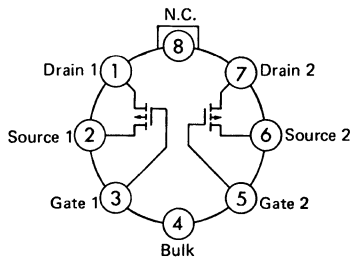
Pin 5 connected to case and device bulk

CA31



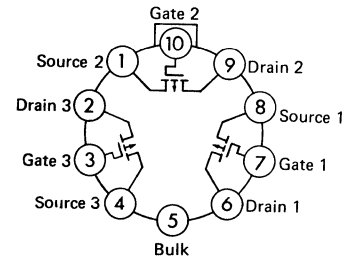
Pin 5 connected to case and device bulk

CA32



Pin 4 connected to case and device bulk

CA33

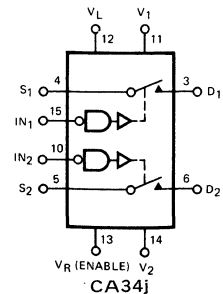
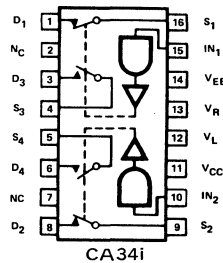
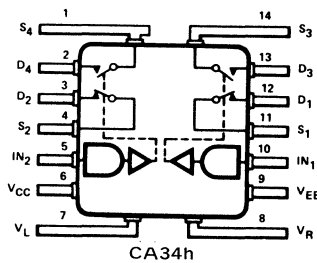
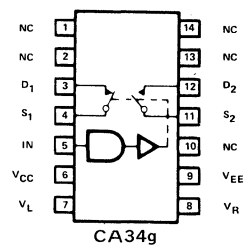
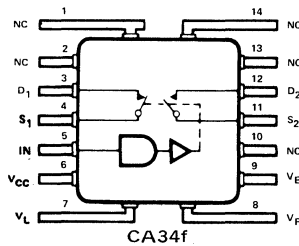
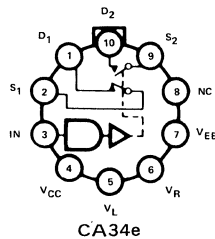
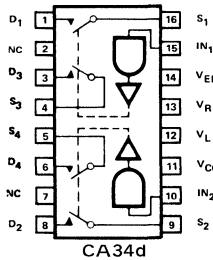
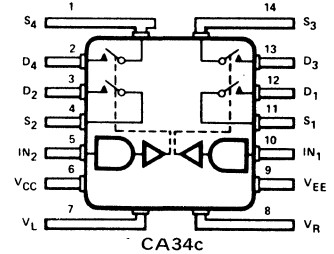
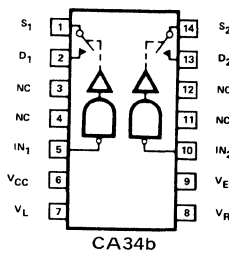
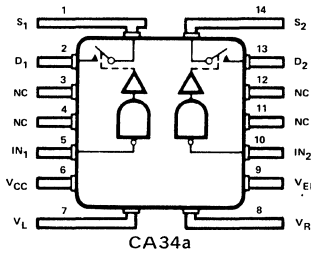
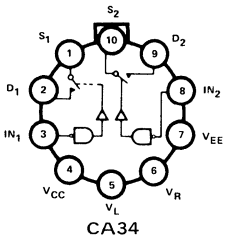
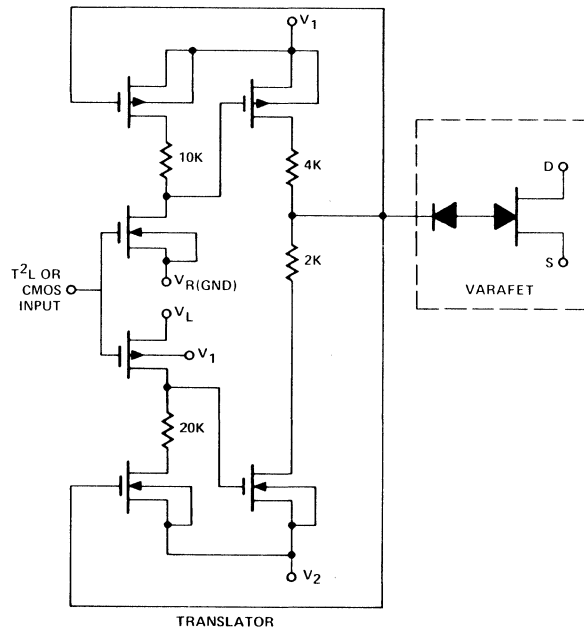


Pin 5 connected to case and device bulk

27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

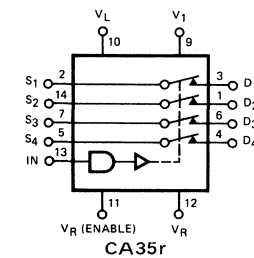
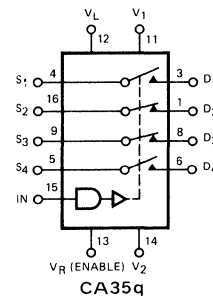
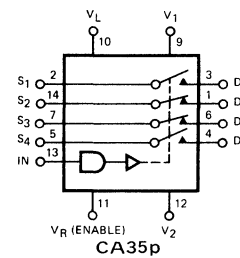
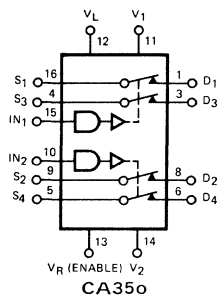
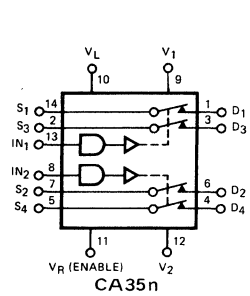
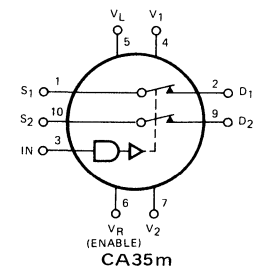
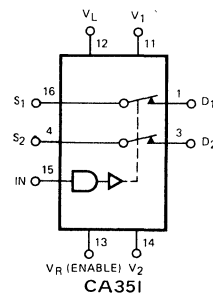
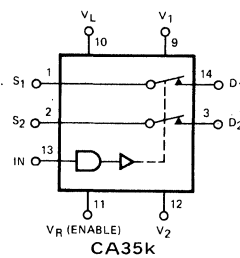
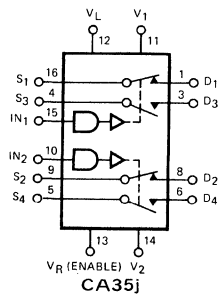
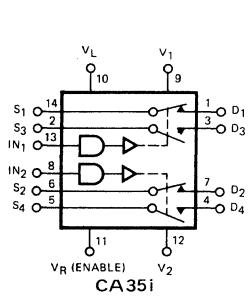
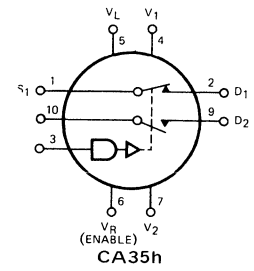
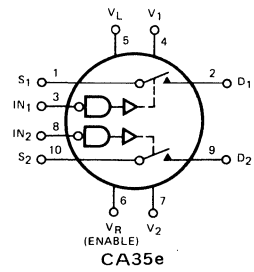
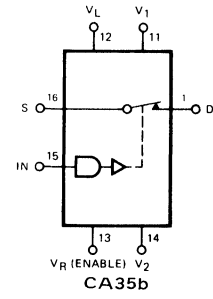
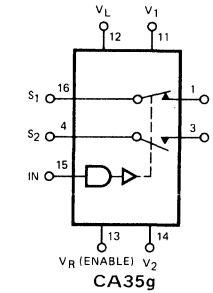
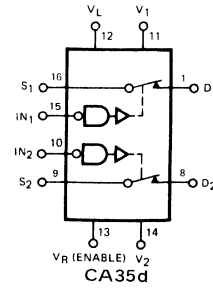
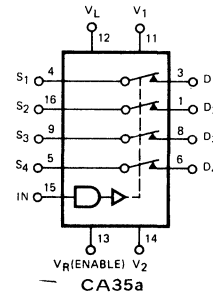
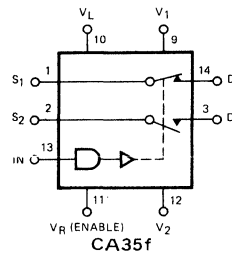
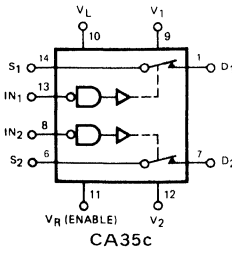
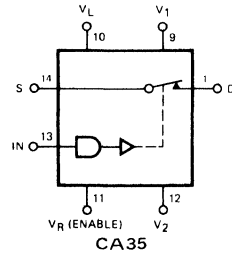
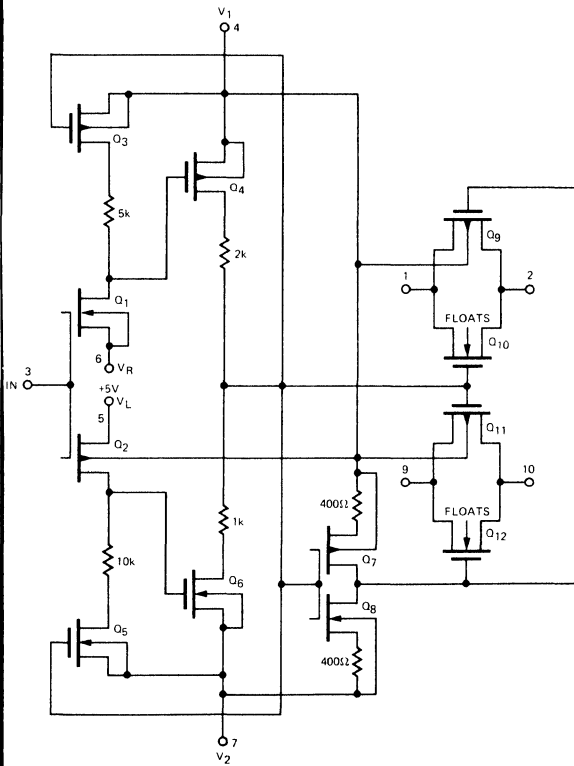
CA34



27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

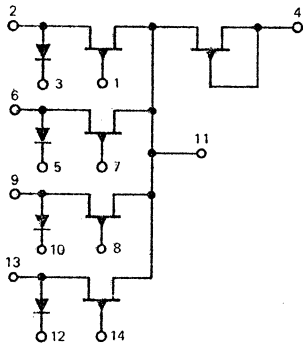
CA35



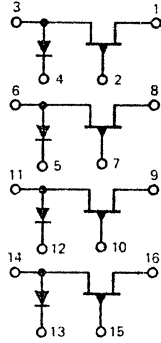
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

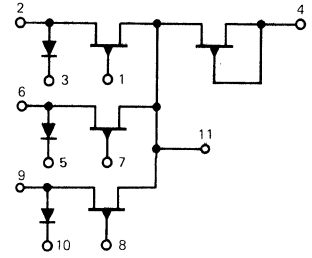
CA36



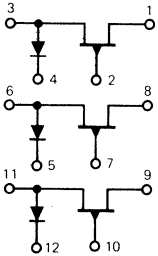
CA37



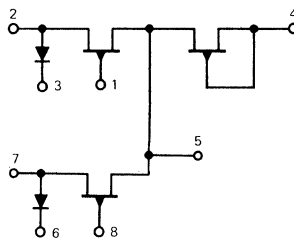
CA38



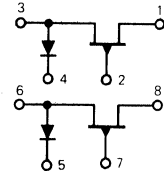
CA39



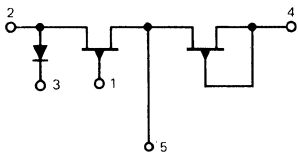
CA40



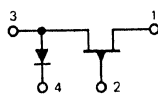
CA41



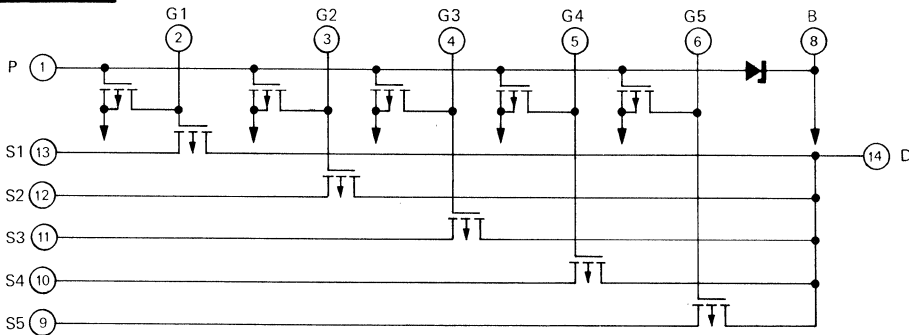
CA42



CA43



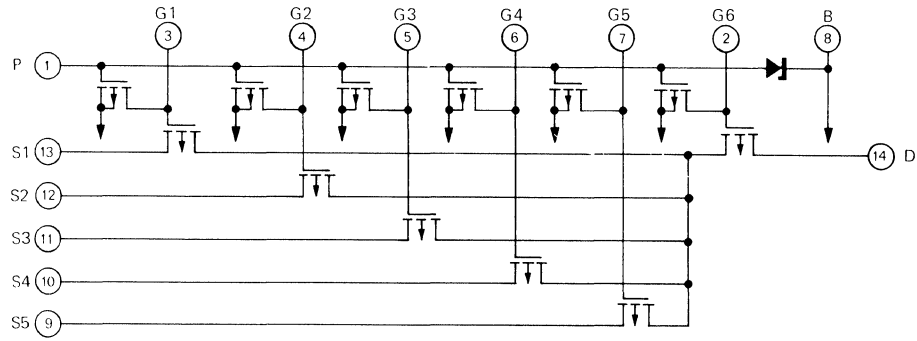
CA44



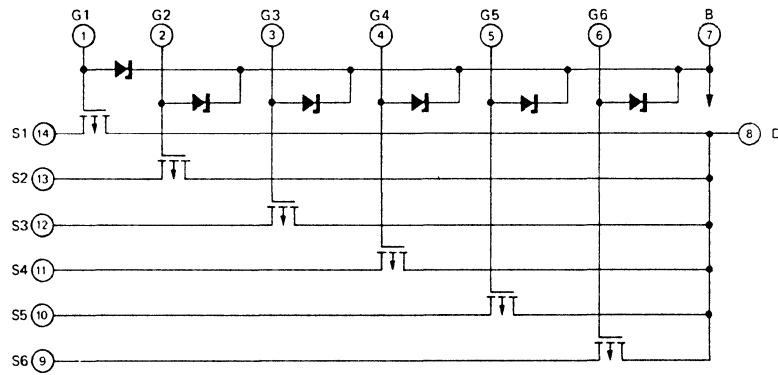
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

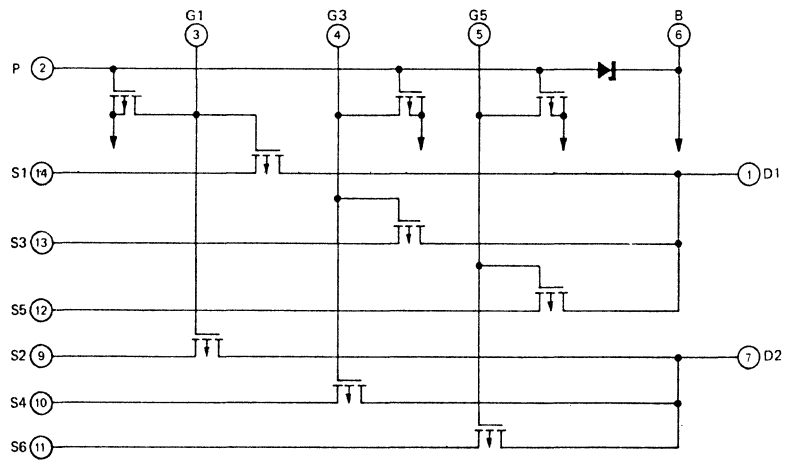
CA45



CA46



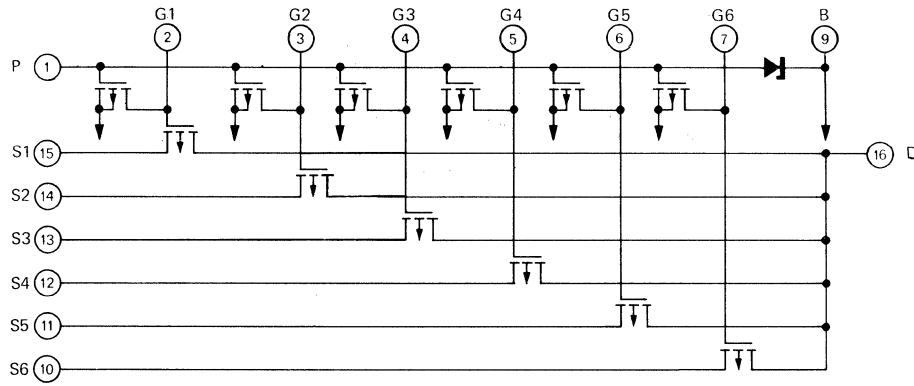
CA47



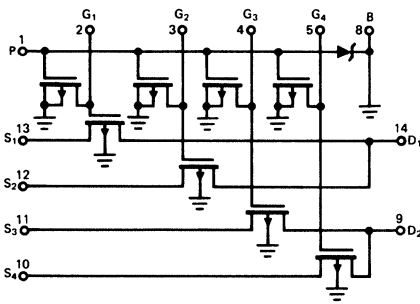
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

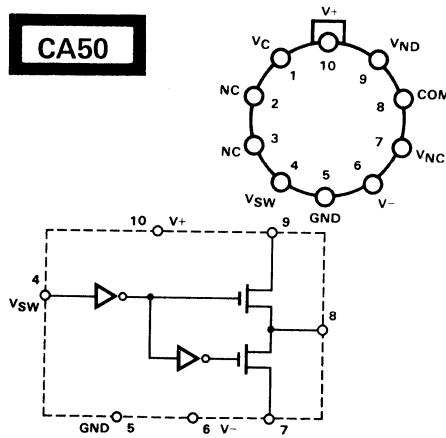
CA48



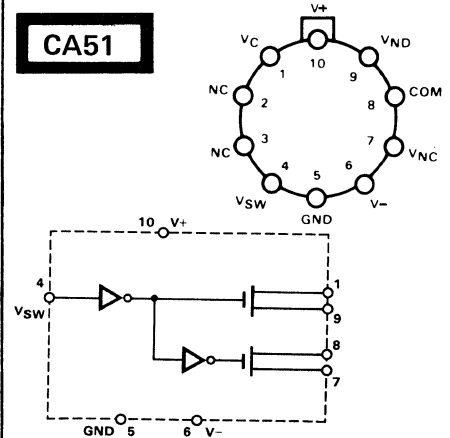
CA49



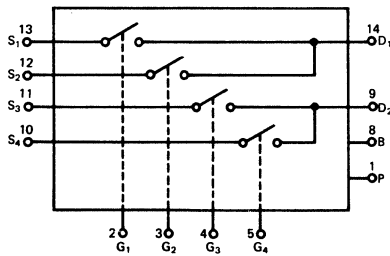
CA50



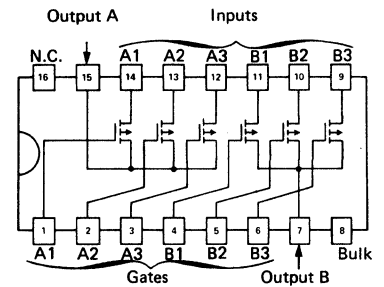
CA51



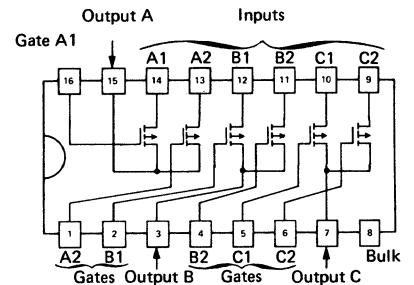
CA52



CA53



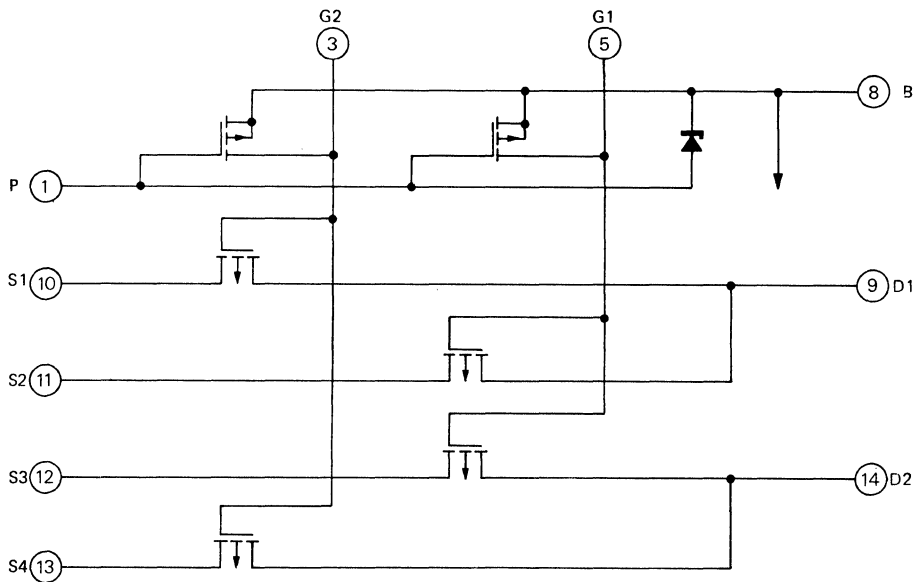
CA54



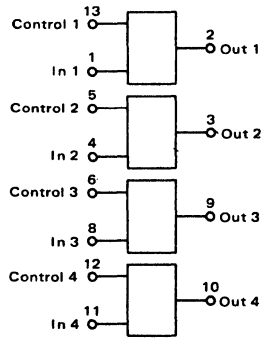
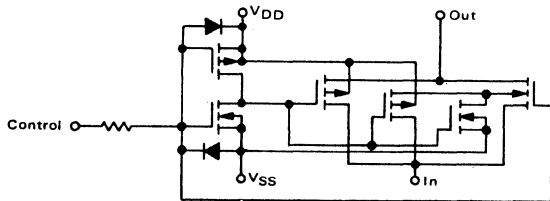
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

CA55



CA56

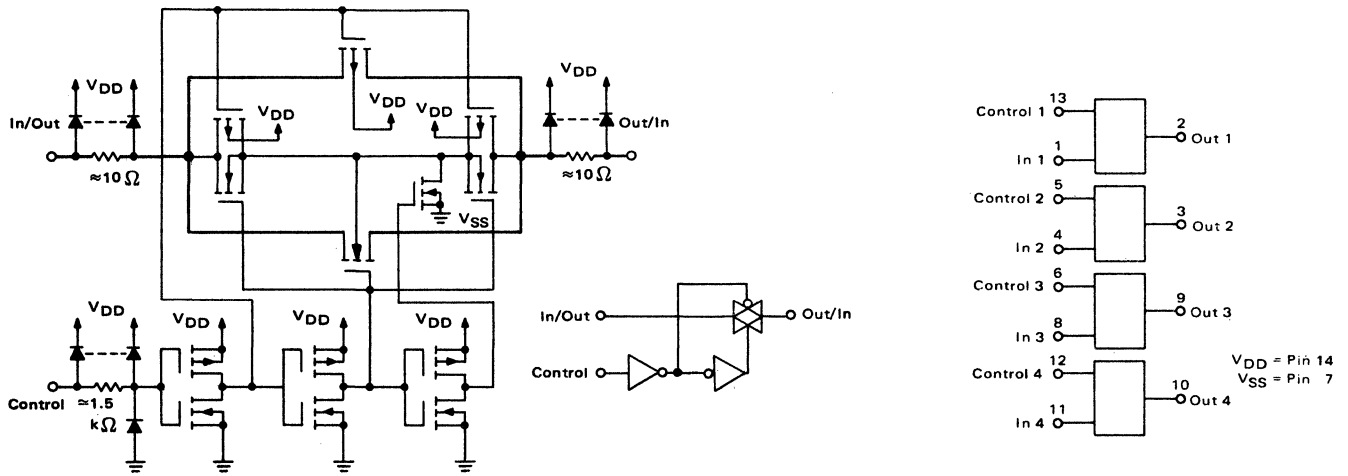


VDD = Pin 14
VSS = Pin 7

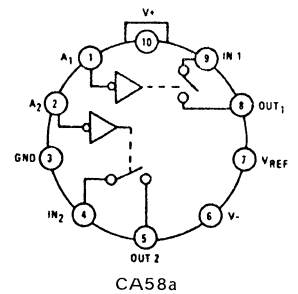
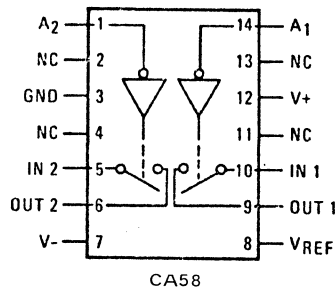
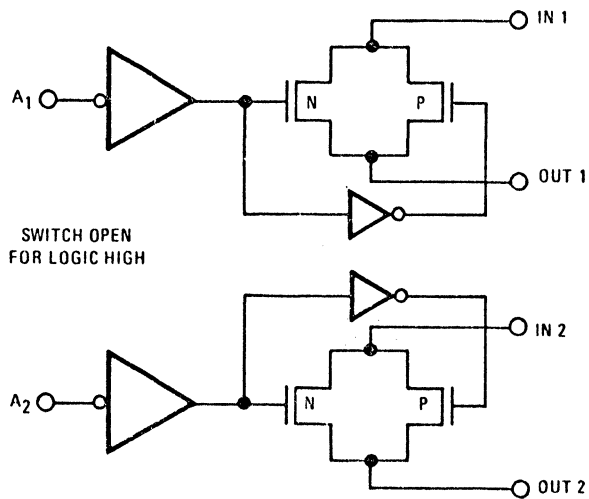
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

CA57



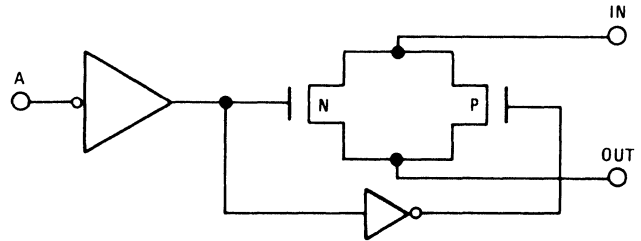
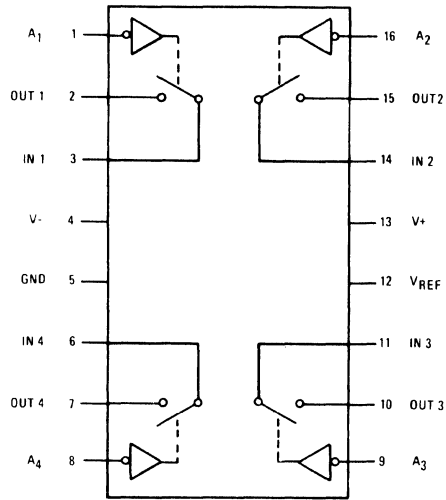
CA58



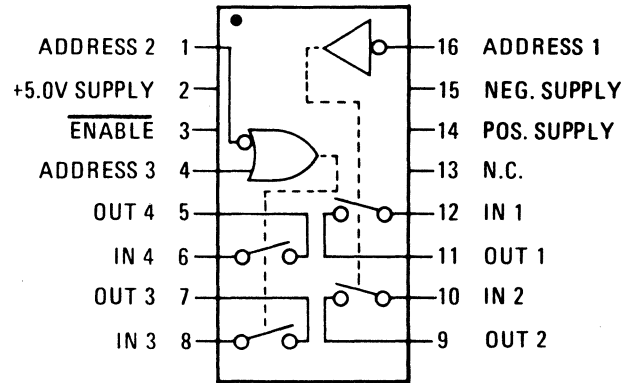
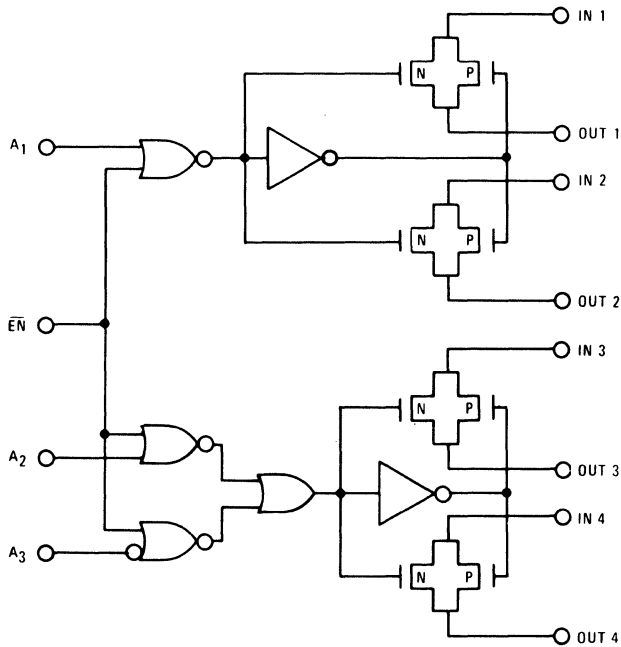
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

CA59



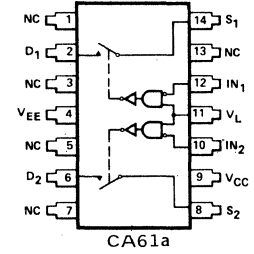
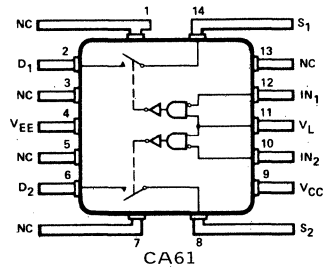
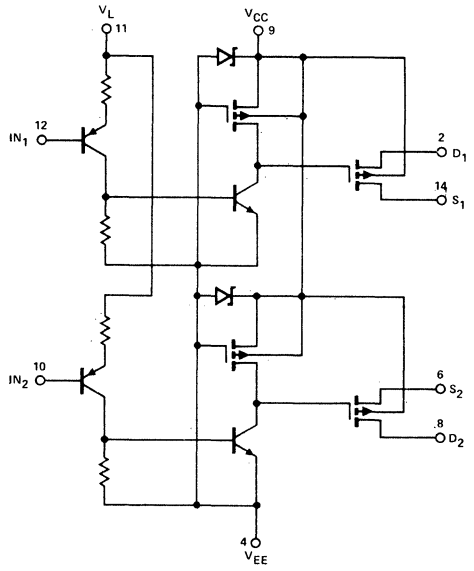
CA60



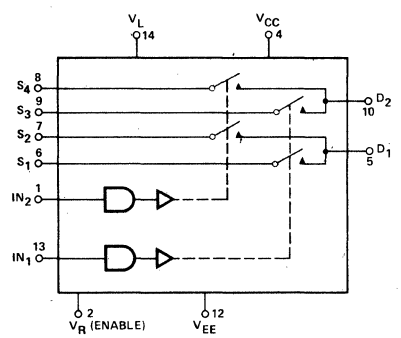
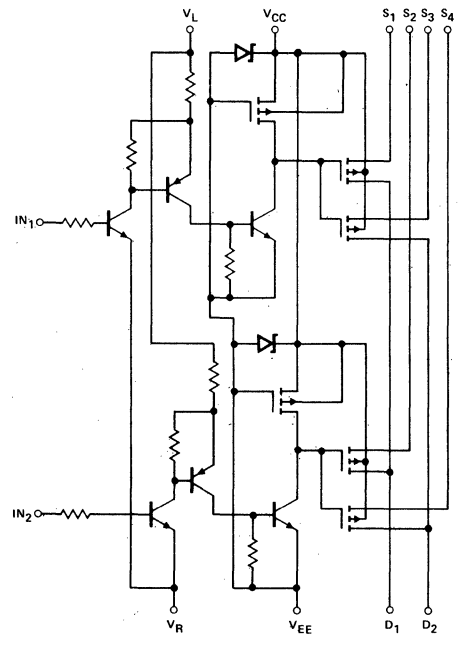
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

CA61



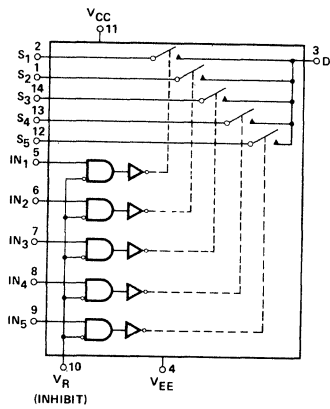
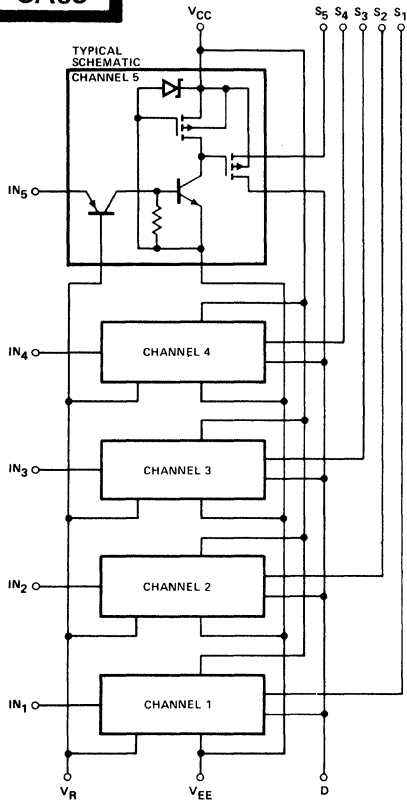
CA62



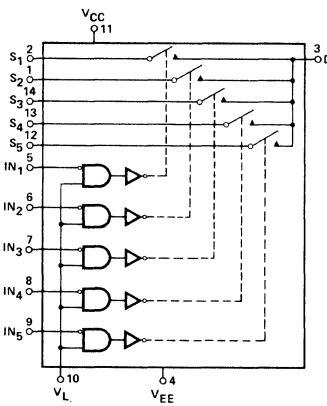
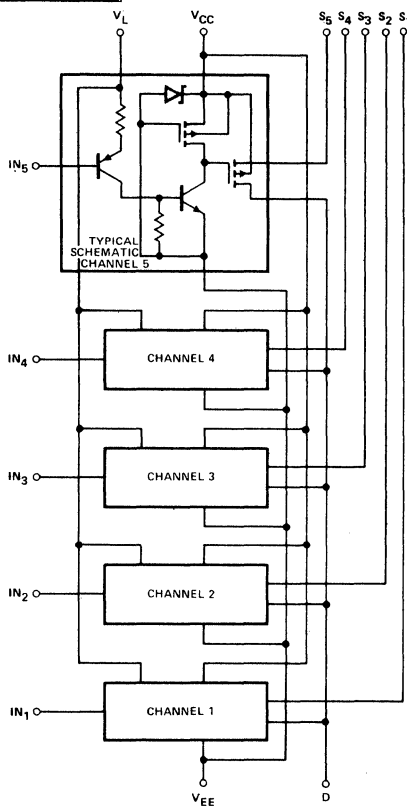
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

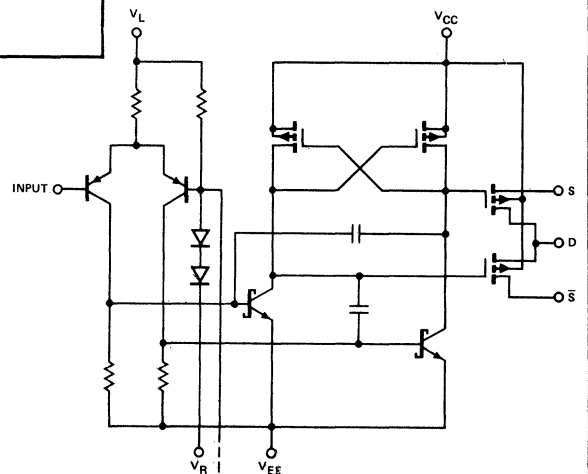
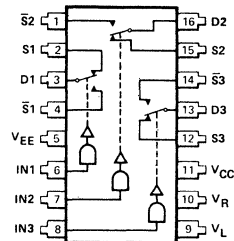
CA63



CA64



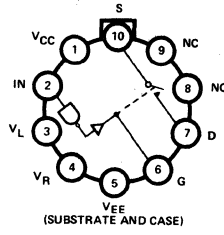
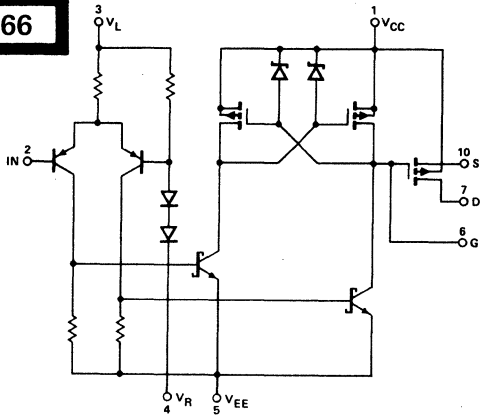
CA65



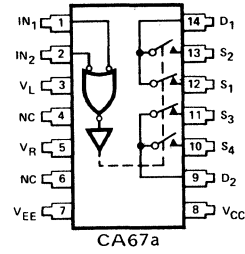
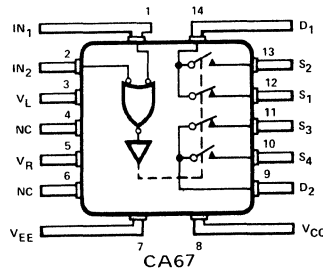
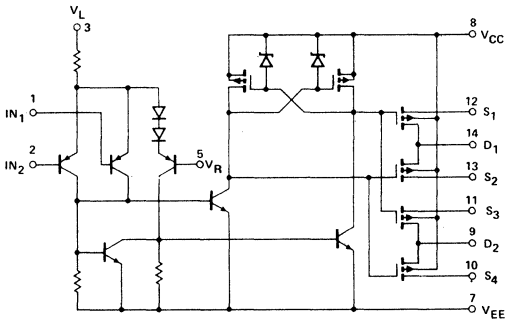
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

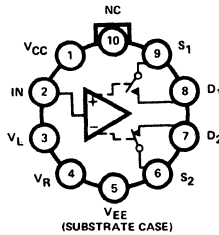
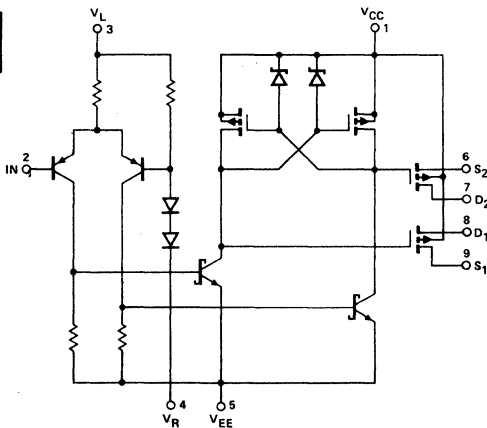
CA66



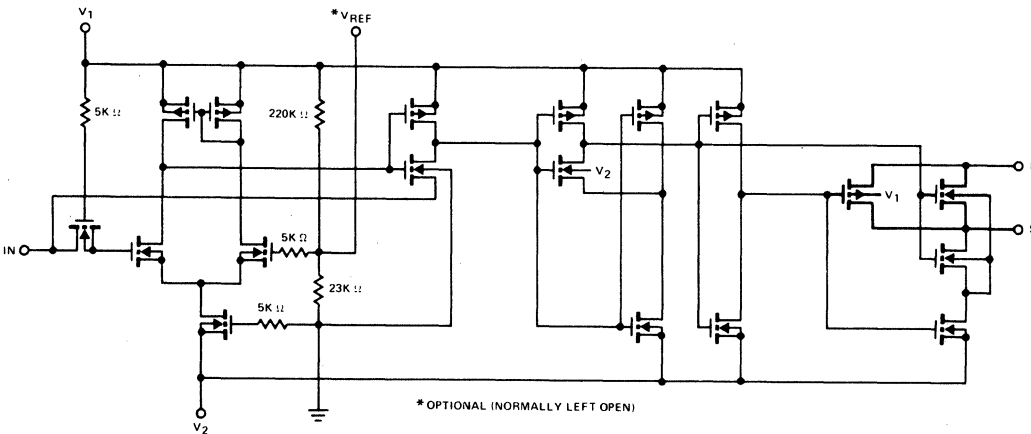
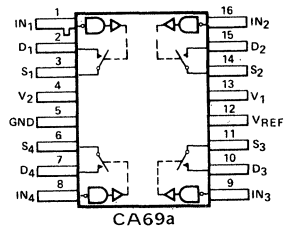
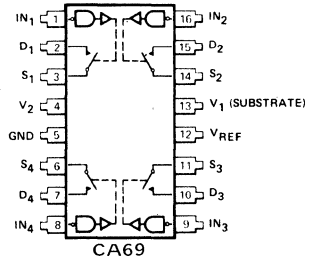
CA67



CA68



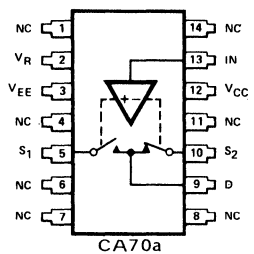
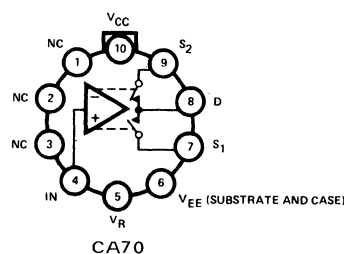
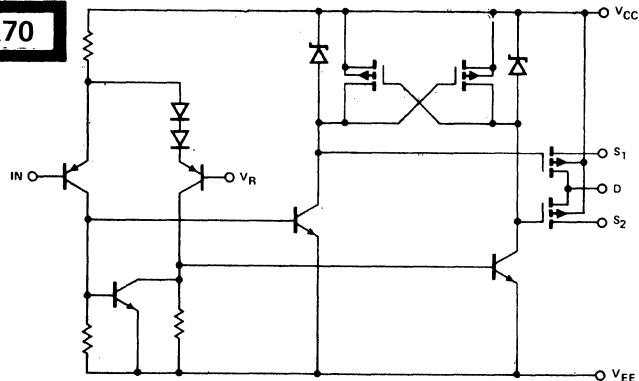
CA69



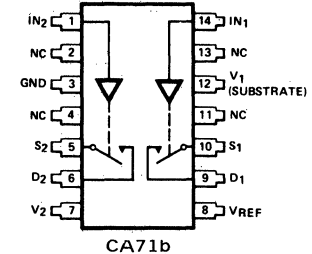
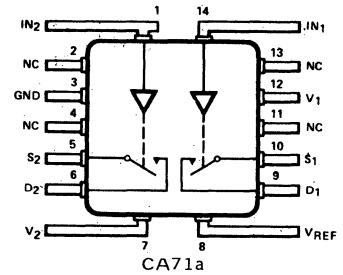
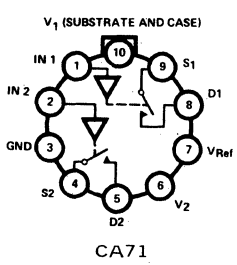
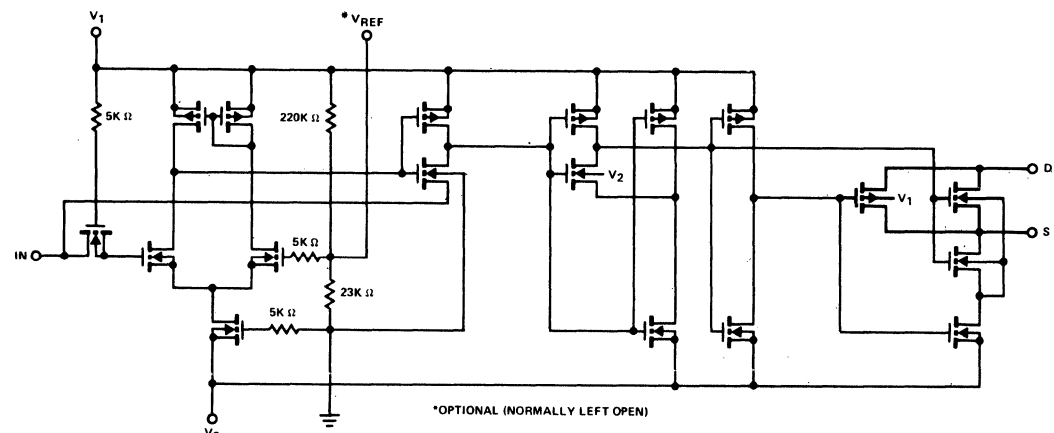
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

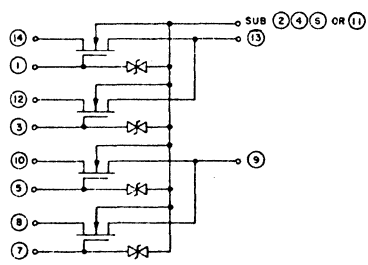
CA70



CA71

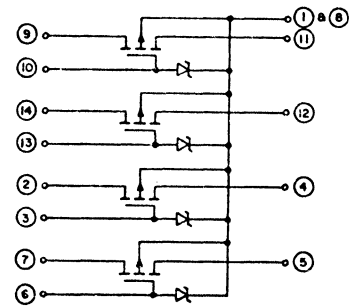


CA72



[Empty box]

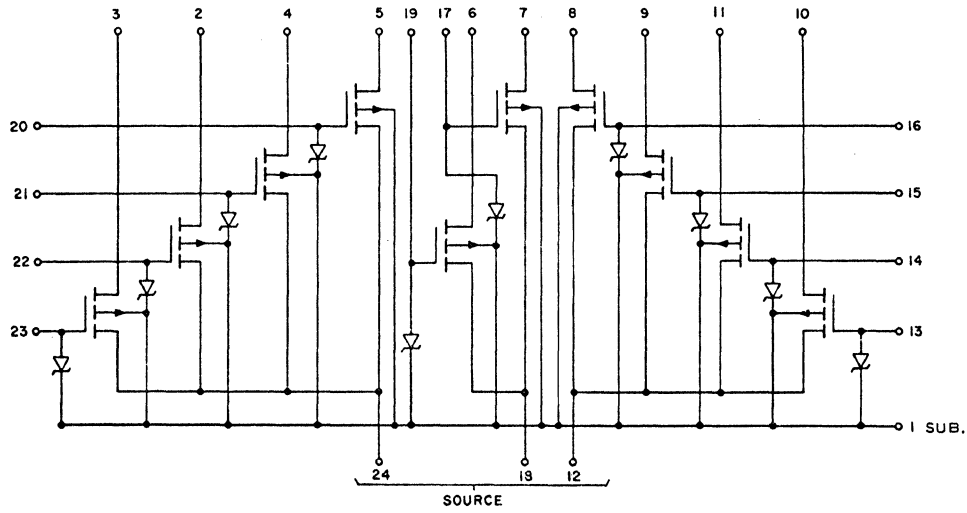
CA73



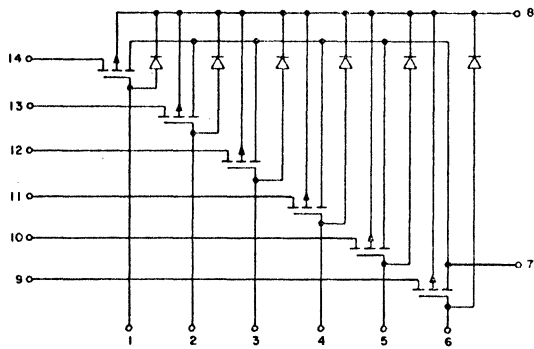
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

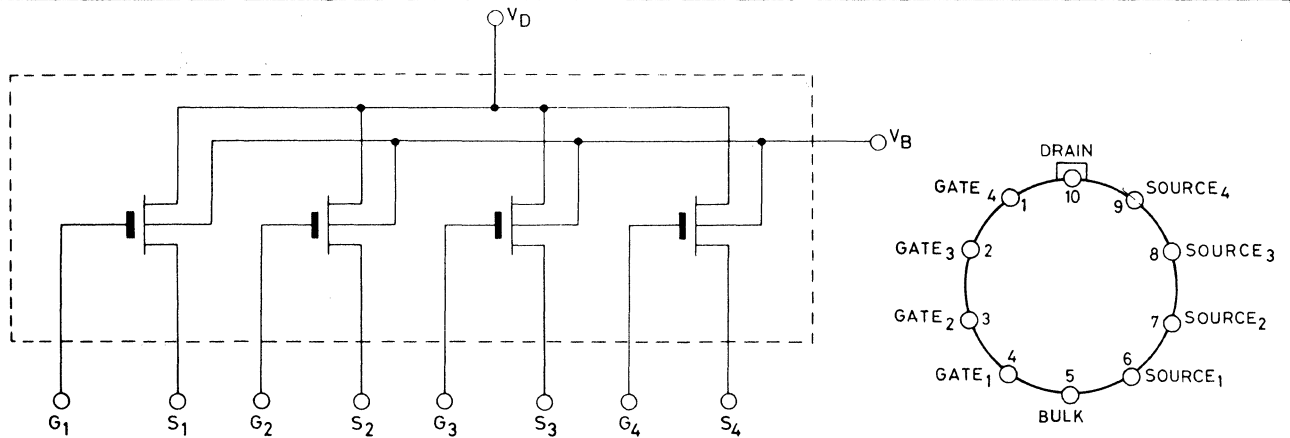
CA74



CA75



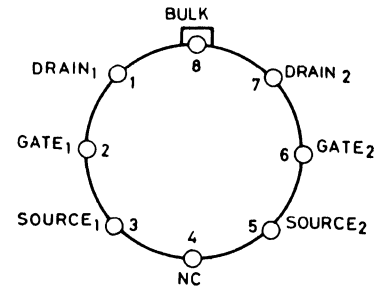
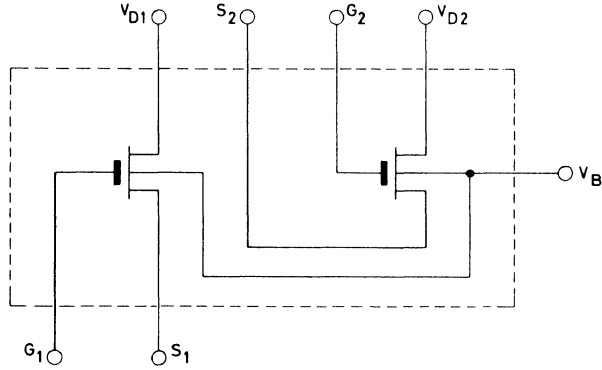
CA76



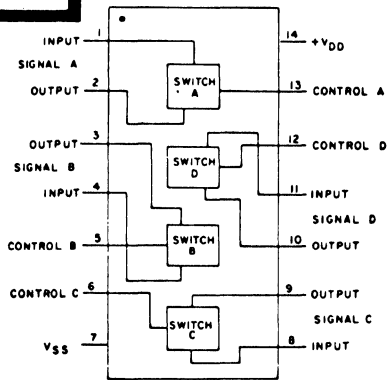
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

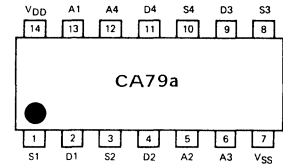
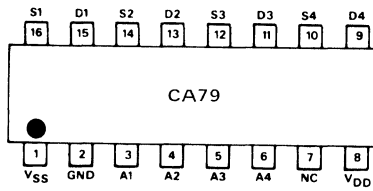
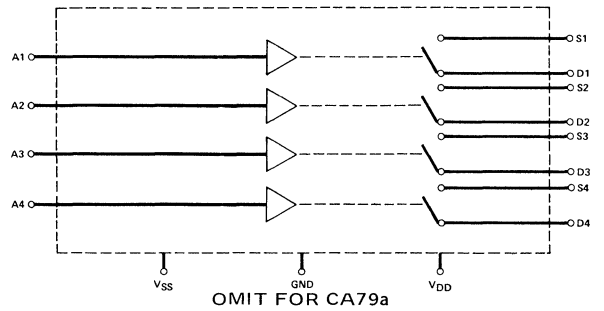
CA77



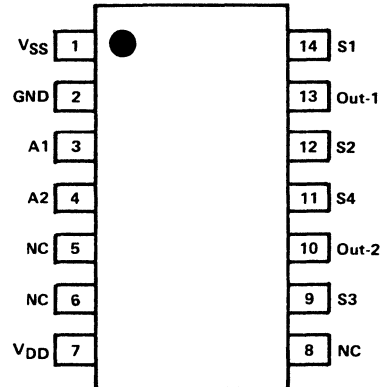
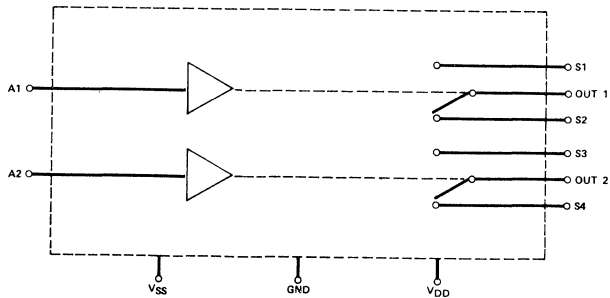
CA78



CA79



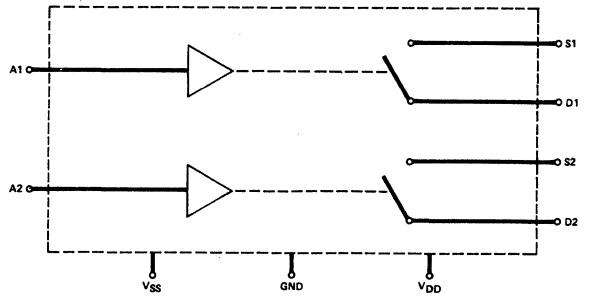
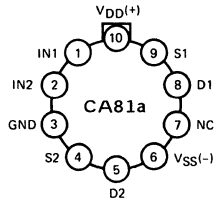
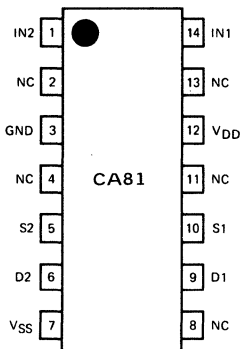
CA80



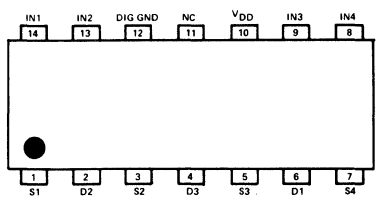
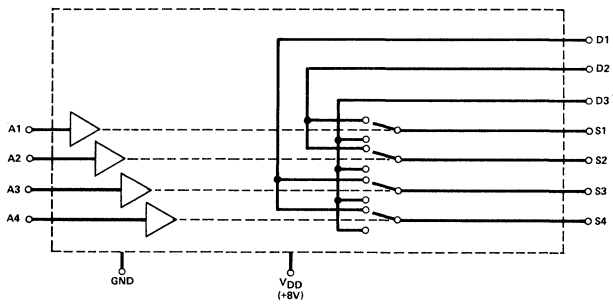
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

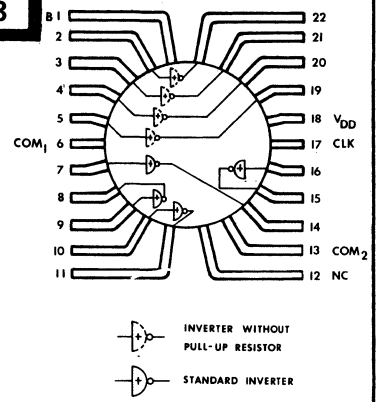
CA81



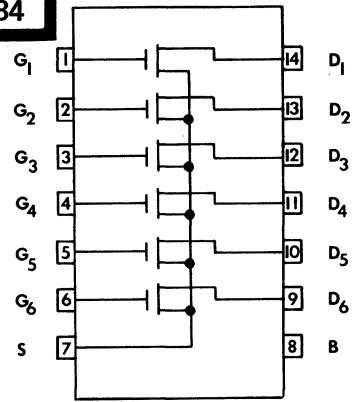
CA82



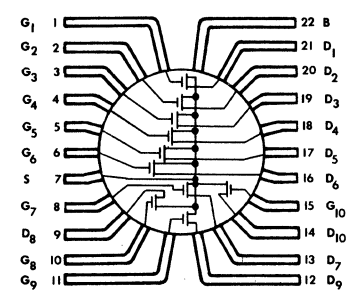
CA83



CA84



CA85

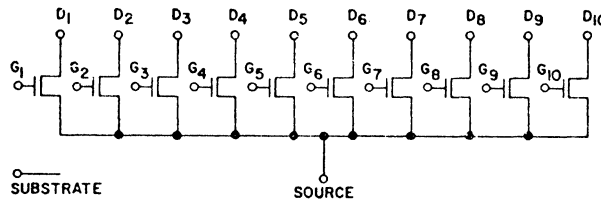


27. LOGIC/BLOCK DRAWINGS

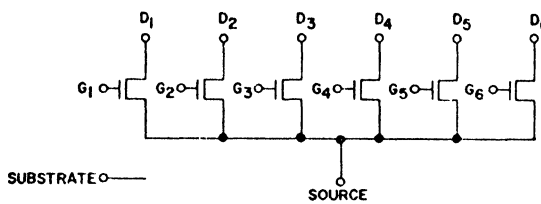
IN DRAWING NUMBER SEQUENCE

CA86

Pin	Function
1	G1
2	G2
3	G3
4	G4
5	G5
6	G6
7	Source
8	G7
9	D8
10	G8
11	G9
12	D9
13	D7
14	D10
15	G10
16	D6
17	D5
18	D4
19	D3
20	D2
21	D1
22	Substrate



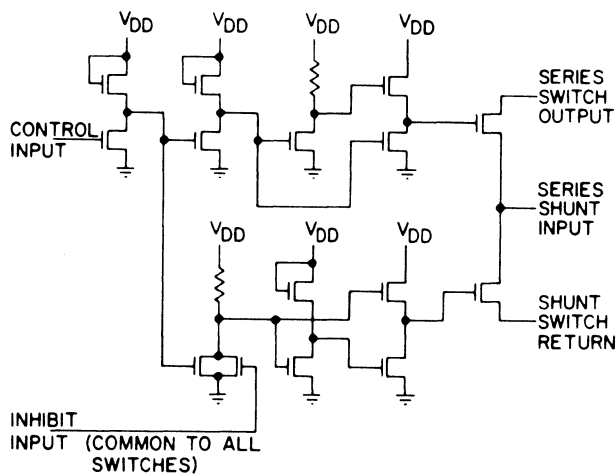
CA87



Pin	Function
1	G1
2	G2
3	G3
4	G4
5	G5
6	G6
7	Source
8	Substrate
9	D6
10	D5
11	D4
12	D3
13	D2
14	D1

CA88

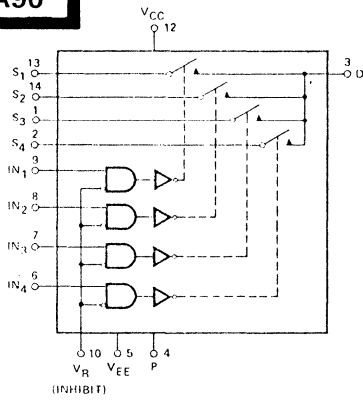
Pin	Function
1	SUBSTRATE
2	SWITCH 2 RETURN
3	CONTROL 3
4	OUTPUT 3
5	INPUT 3
6	SWITCH 3 RETURN
7	INPUT 2
8	OUTPUT 2
9	CONTROL 2
10	INHIBIT
11	LOGIC GROUND
12	V _{DD}
13	CONTROL 1
14	N/C
15	N/C
16	OUTPUT 1
17	INPUT 1
18	SWITCH 4 RETURN
19	INPUT 4
20	OUTPUT 4
21	CONTROL 4
22	SWITCH 1 RETURN



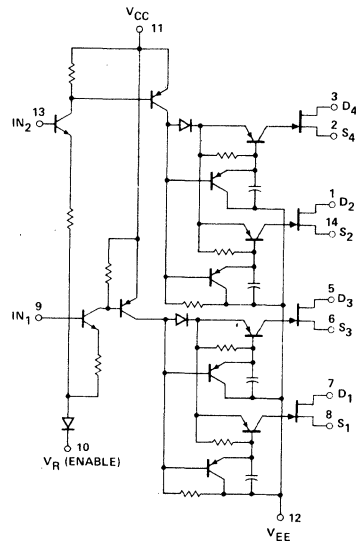
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

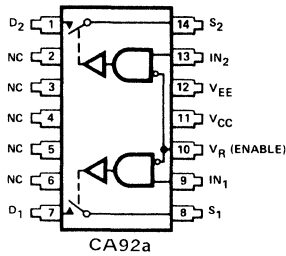
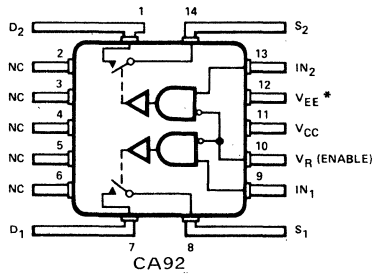
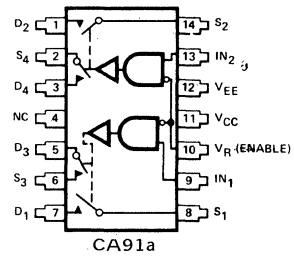
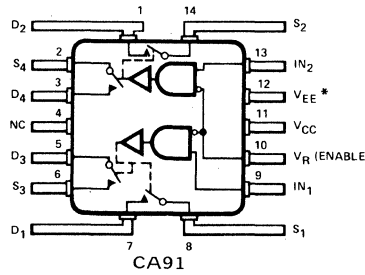
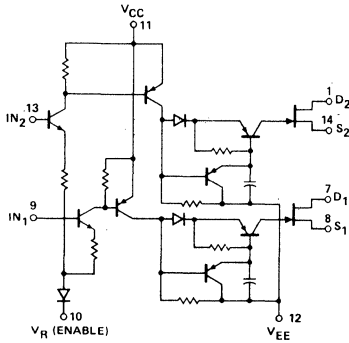
CA90



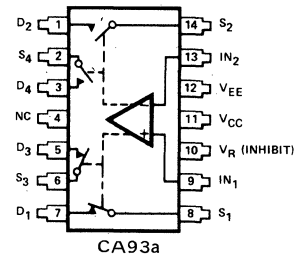
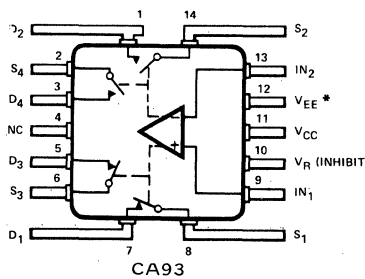
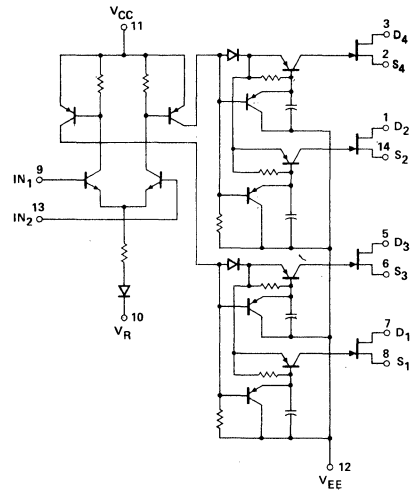
CA91



CA92



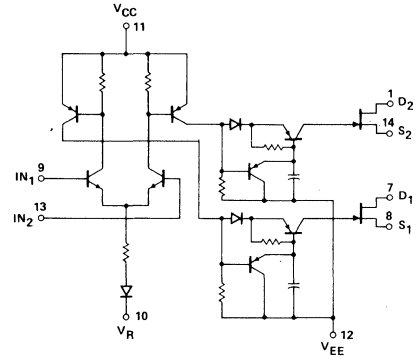
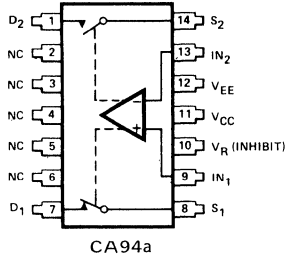
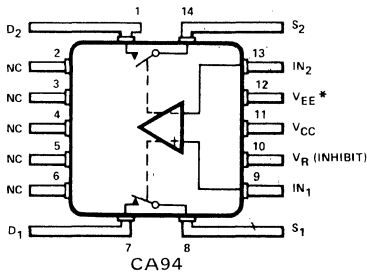
CA93



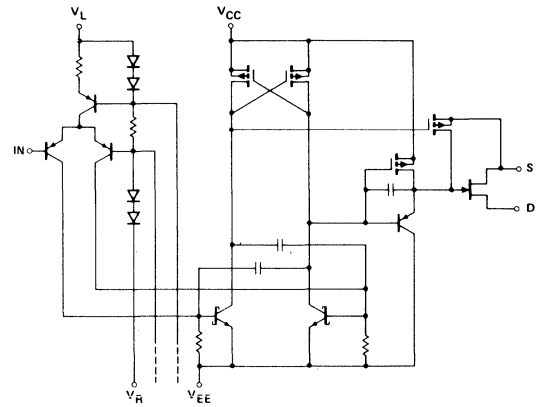
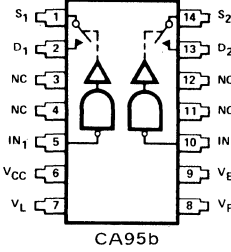
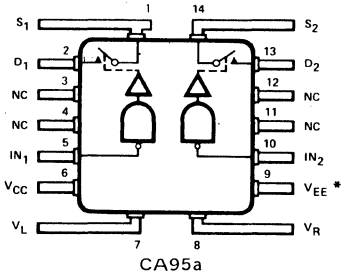
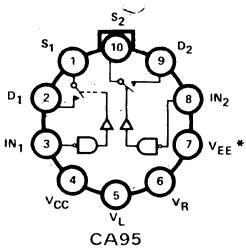
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

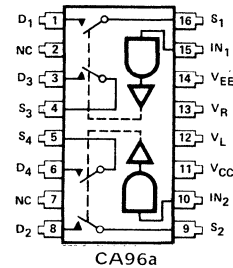
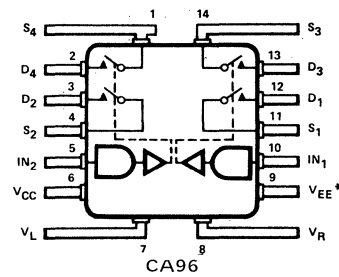
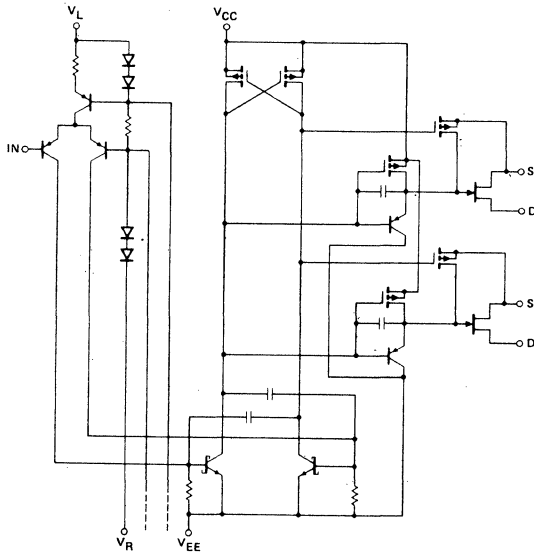
CA94



CA95



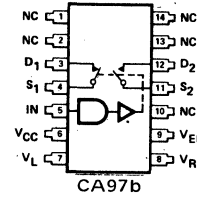
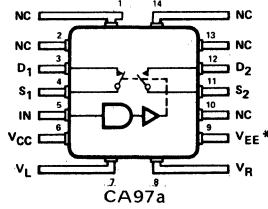
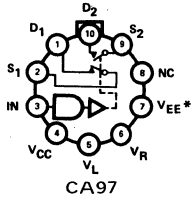
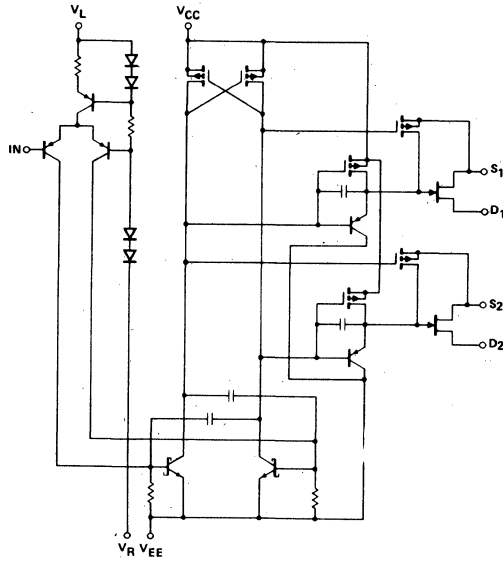
CA96



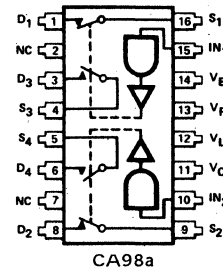
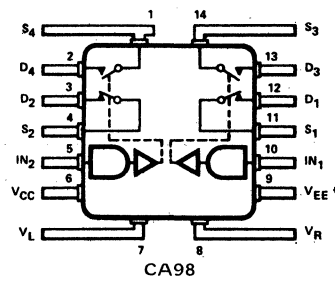
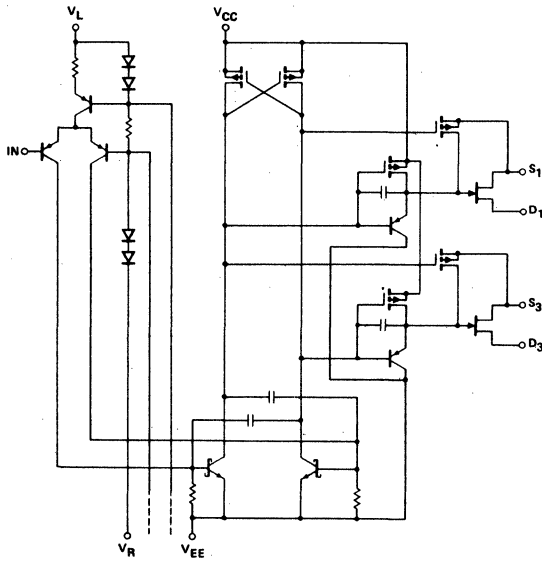
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

CA97



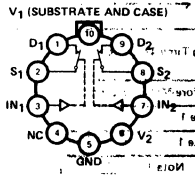
CA98



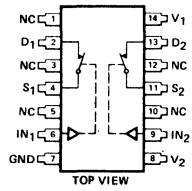
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

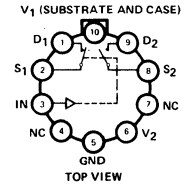
CA99



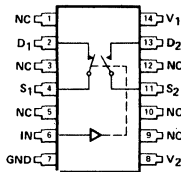
CA100



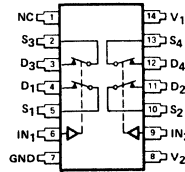
CA101



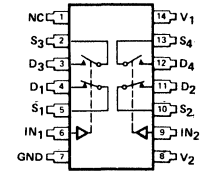
CA102



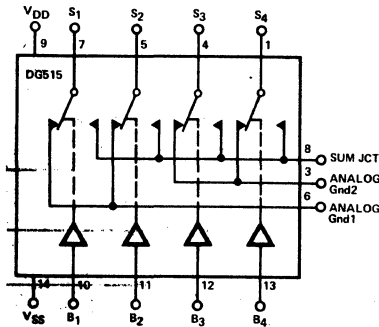
CA103



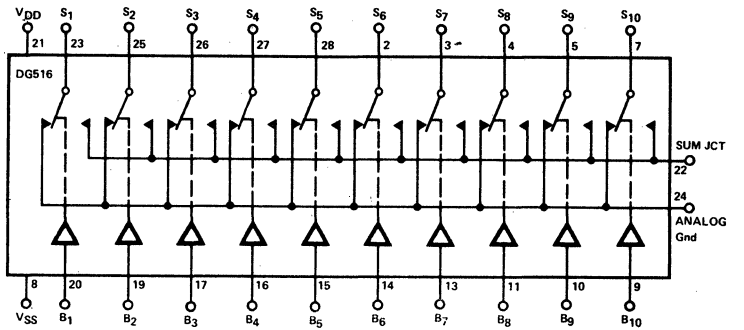
CA104



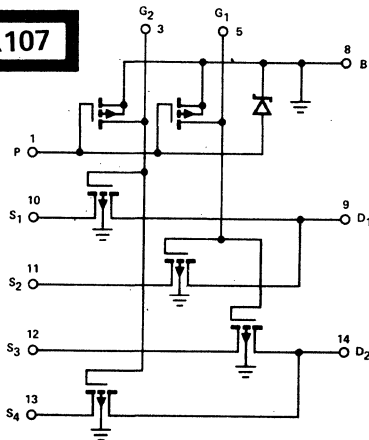
CA105



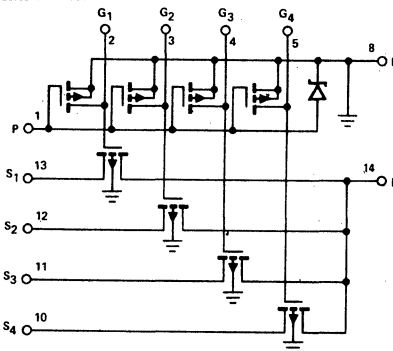
CA106



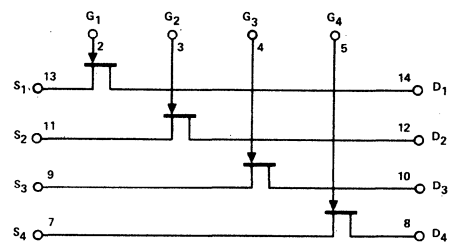
CA107



CA108



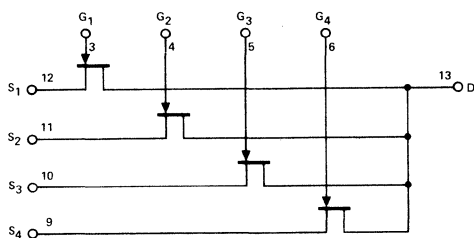
CA109



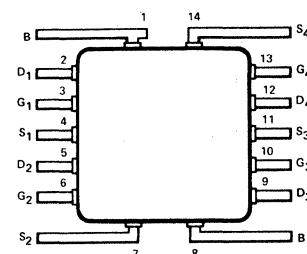
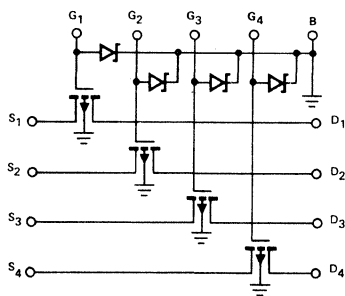
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

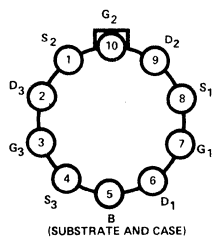
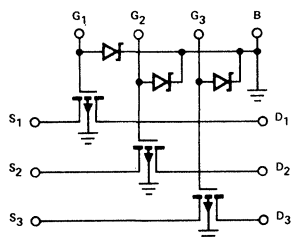
CA110



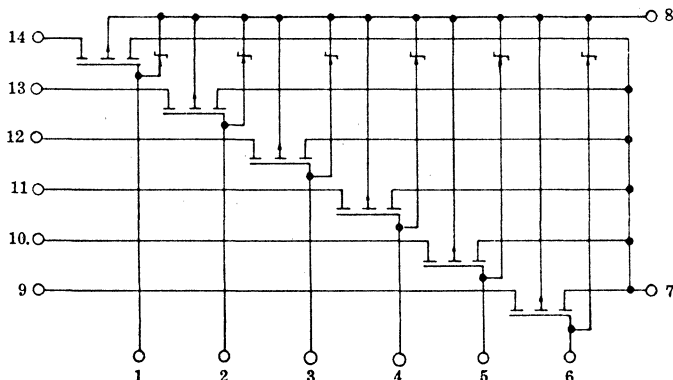
CA111



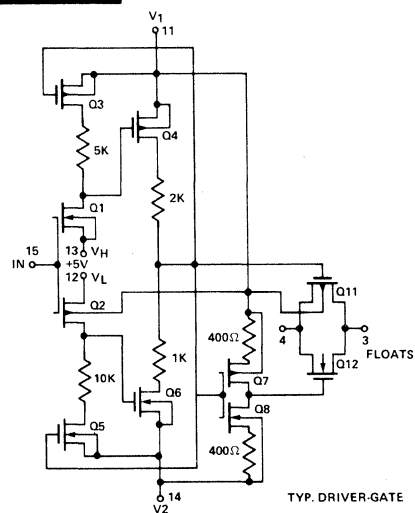
CA112



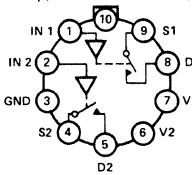
CA114



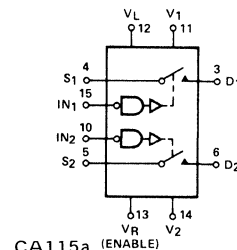
CA115



V1 (SUBSTRATE AND CASE)



CA115 TOP VIEW

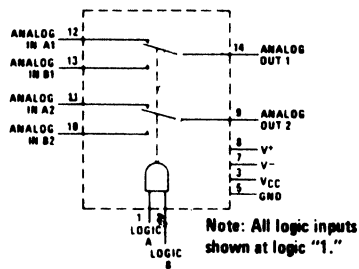


CA115a (ENABLE)

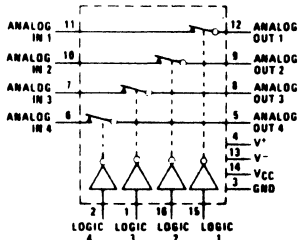
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

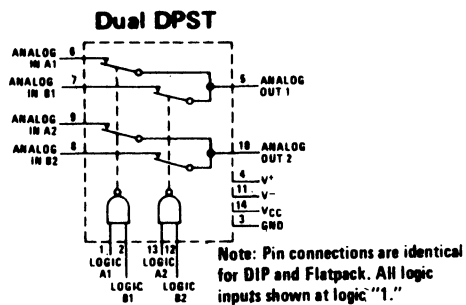
CA116



CA117

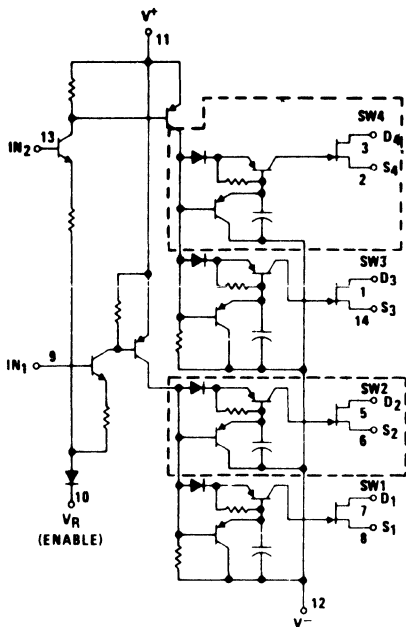


CA118

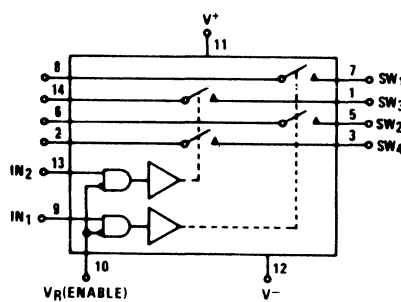


CA119

DUAL DPST and DUAL SPST



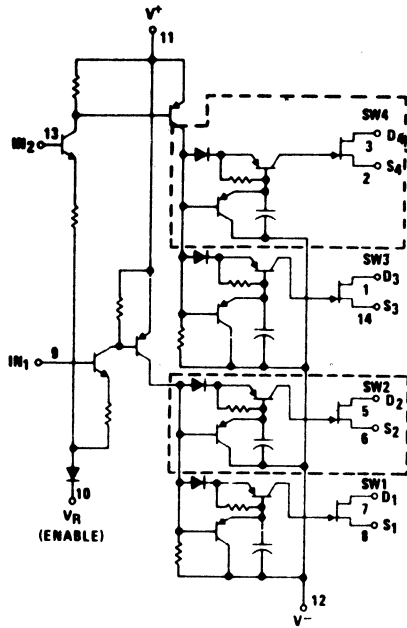
DUAL DPST



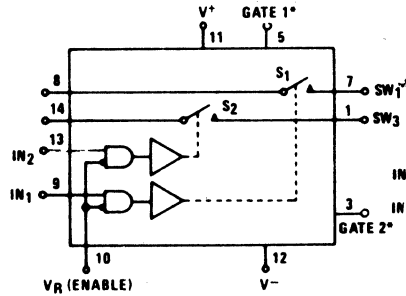
Note: Dotted line portions are not applicable to the dual SPST.

CA120

DUAL DPST and DUAL SPST



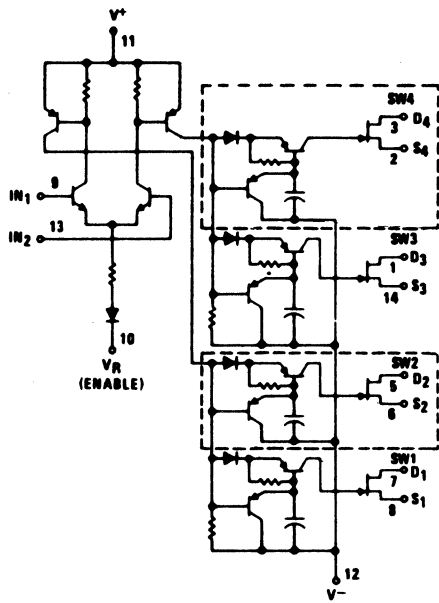
DUAL SPST
* Pinned out in N Package only.



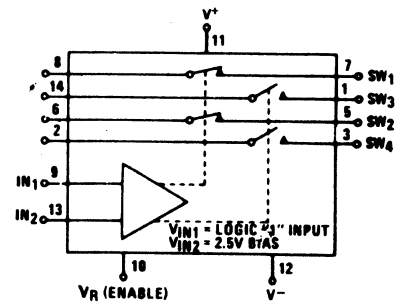
Note: Dotted line portions are not applicable to the dual SPST.

CA121

DPDT (diff.) and SPDT (diff.)



DPDT (diff.)



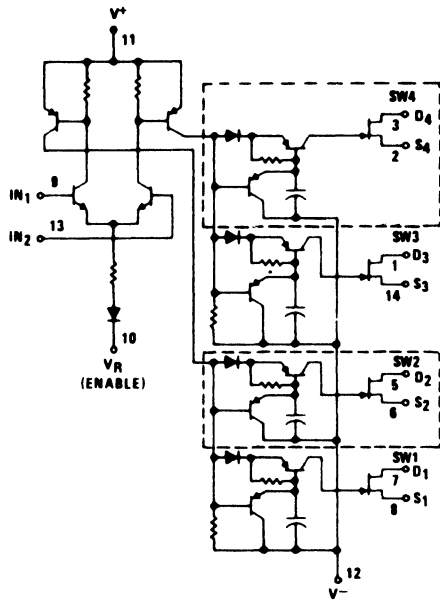
Note: Dotted line portions are not applicable to the SPDT (differential).

27. LOGIC/BLOCK DRAWINGS

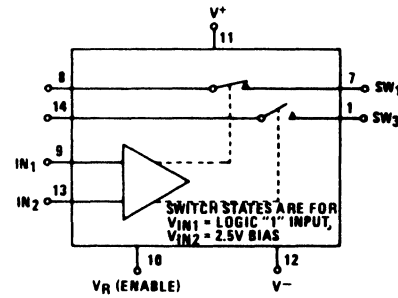
IN DRAWING NUMBER
SEQUENCE

CA122

DPDT (diff.) and SPDT (diff.)

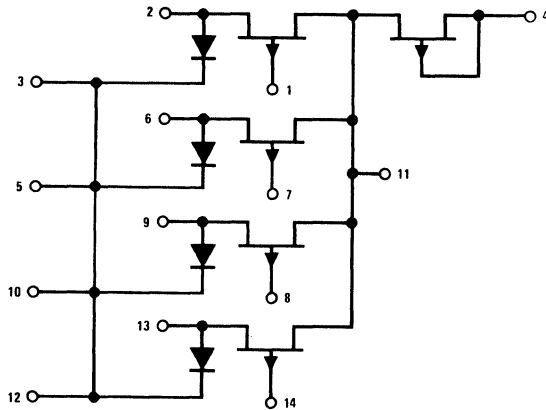


SPDT (diff.)

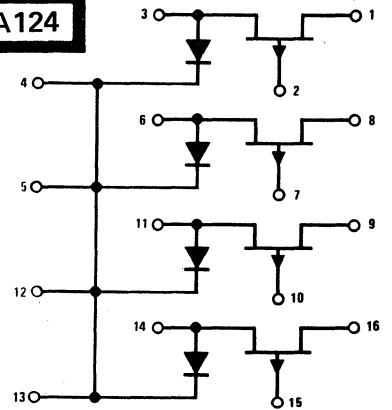


Note: Dotted line portions are not applicable to the SPDT (differential).

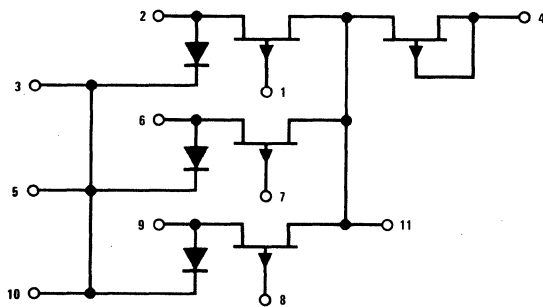
CA123



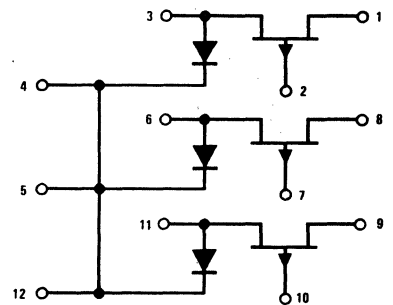
CA124



CA125



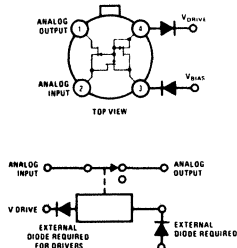
CA126



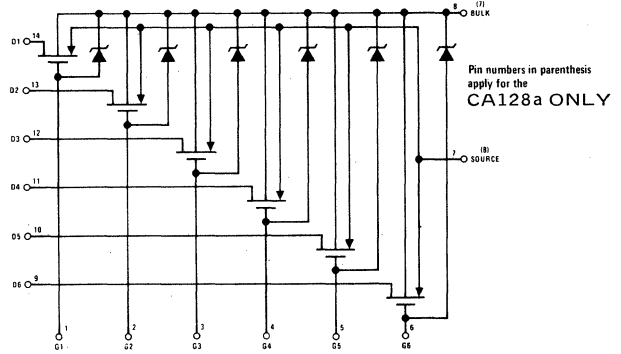
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

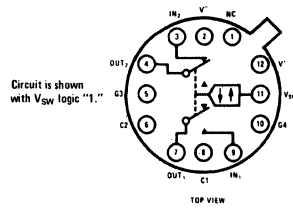
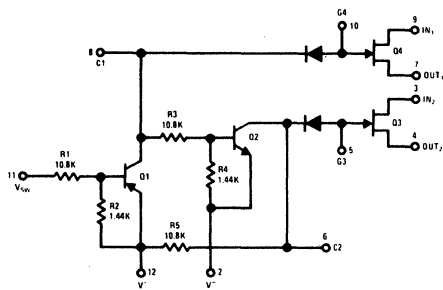
CA127



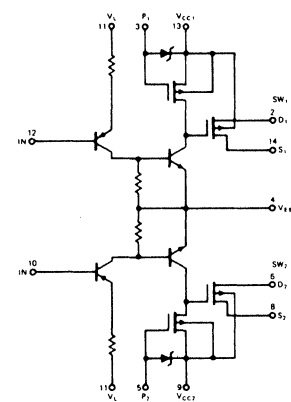
CA128



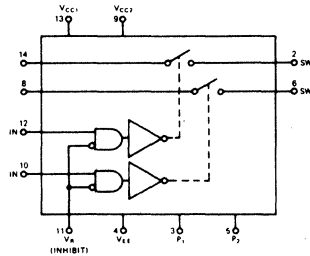
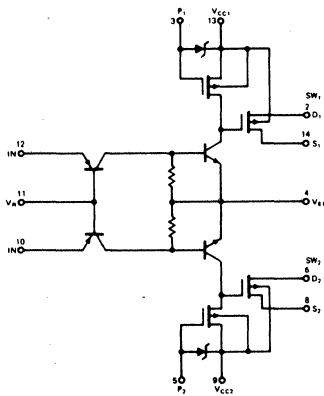
CA129



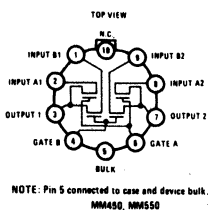
CA130



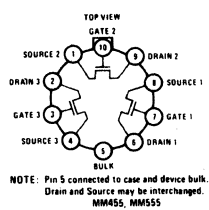
CA131



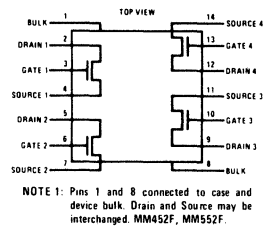
CA132



CA133



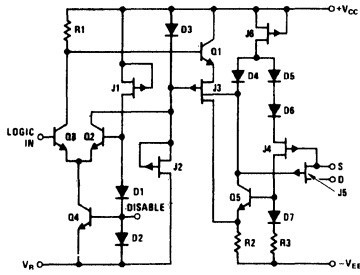
CA134



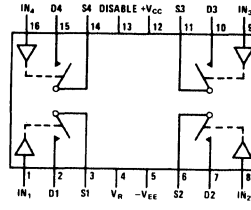
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

CA135

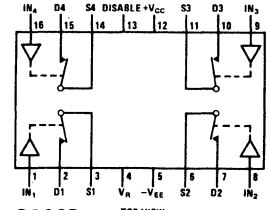


(NORMALLY OPEN)



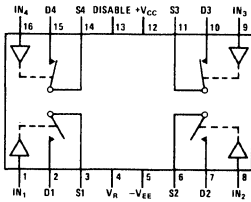
CA135

TOP VIEW

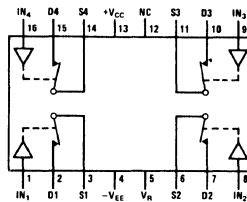


CA135a

TOP VIEW

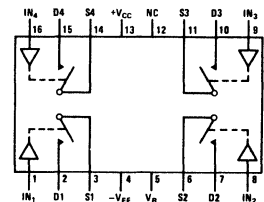


CA135b



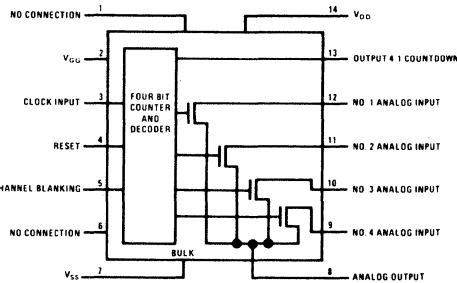
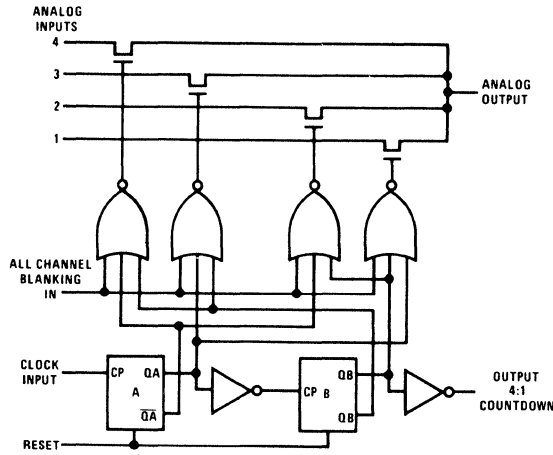
CA135c

TOP VIEW



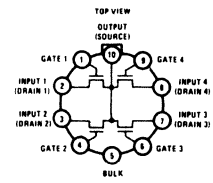
CA135d

CA136



Note: Pin 7 connected to case and to device bulk. Nominal Operating Voltages: $V_{DD} = -24V$; $V_{DD} = 0V$; $V_{SS} = +12V$; RESET BIAS = +12V (0V for RESET), ALL CHANNEL BLANKING BIAS = +12V (0V for BLANKING)

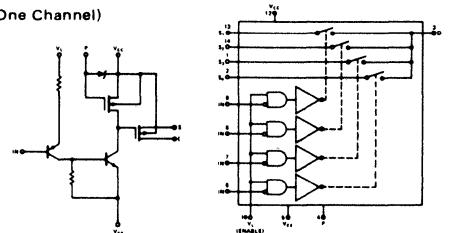
CA137



NOTE: Pin 5 connected to case and device bulk.

CA138

(One Channel)

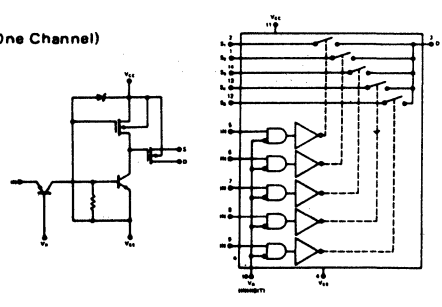


27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

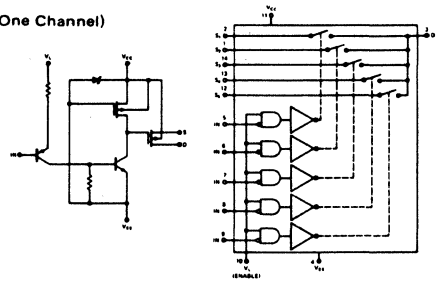
CA139

(One Channel)

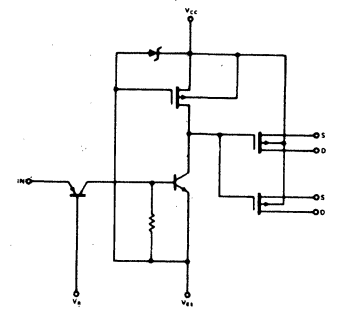


CA140

(One Channel)

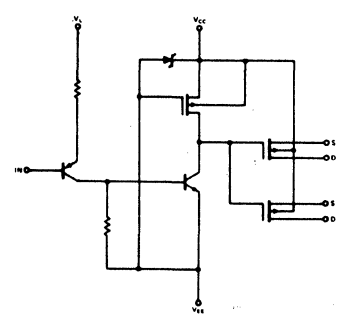


CA141

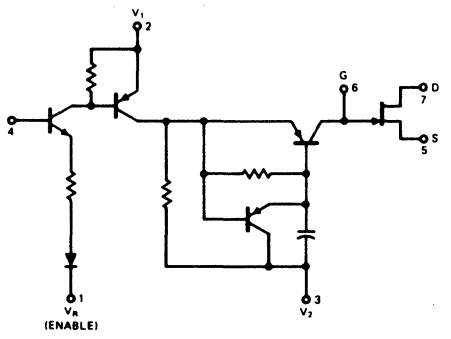


CA142

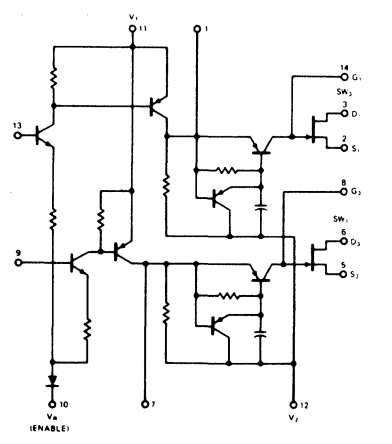
(One Channel)



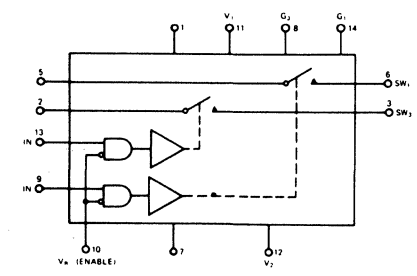
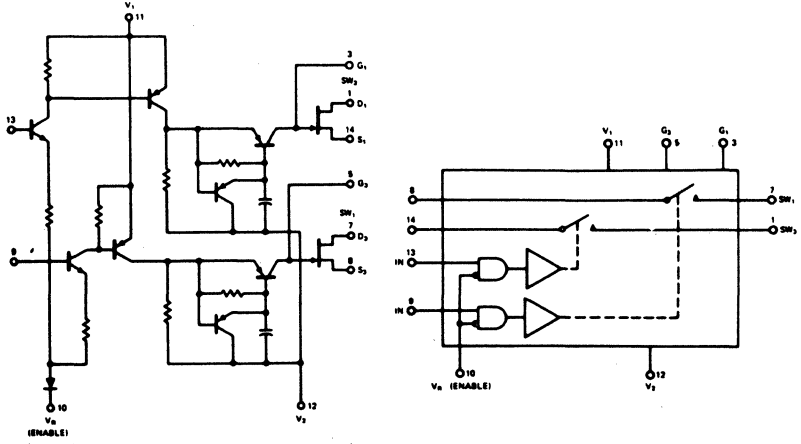
CA143



CA145



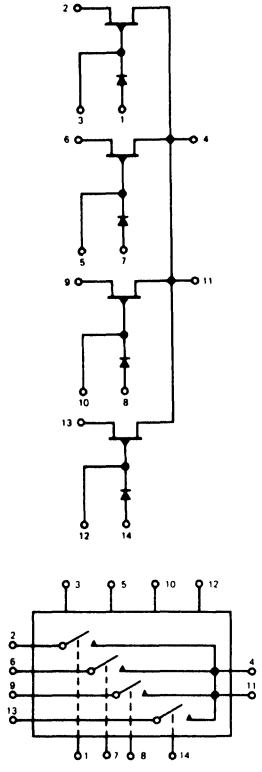
CA144



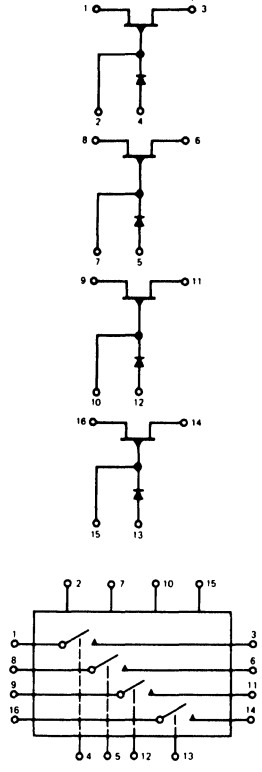
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

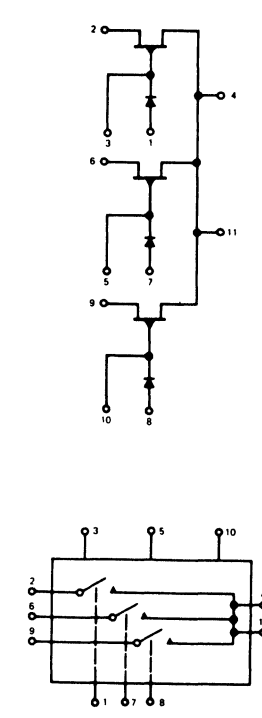
CA146



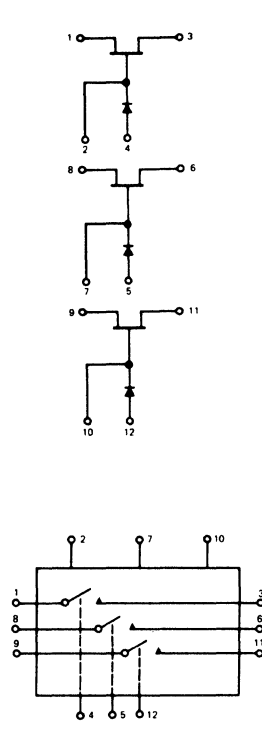
CA147



CA148

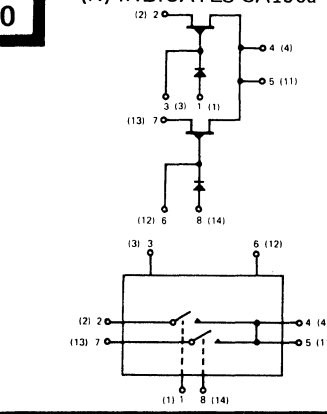


CA149



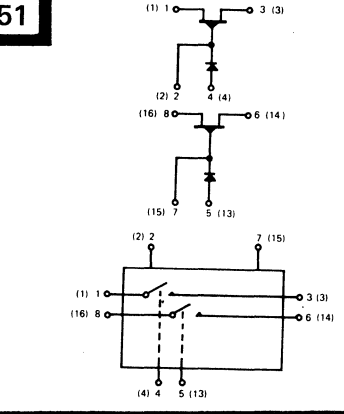
CA150

(N) INDICATES CA150a

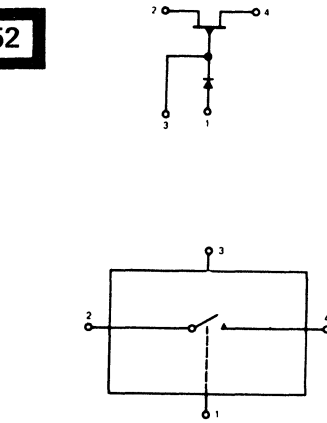


CA151

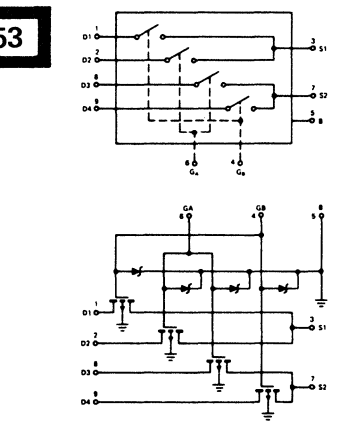
(N) INDICATES CA151a



CA152



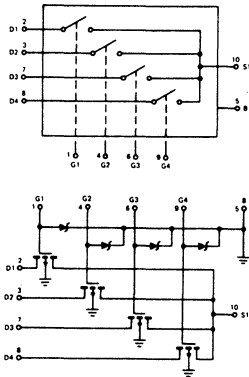
CA153



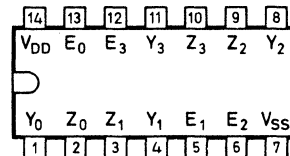
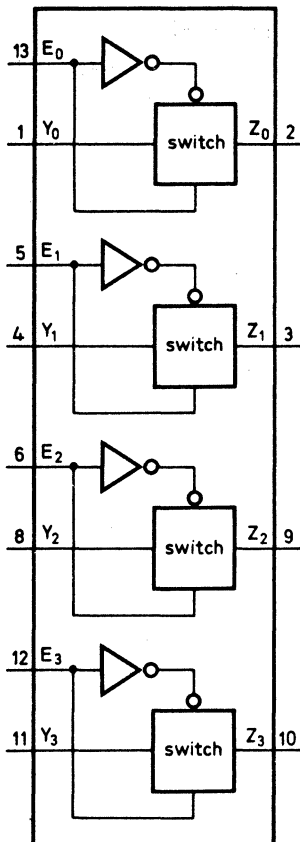
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

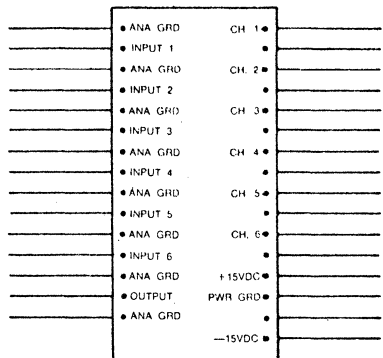
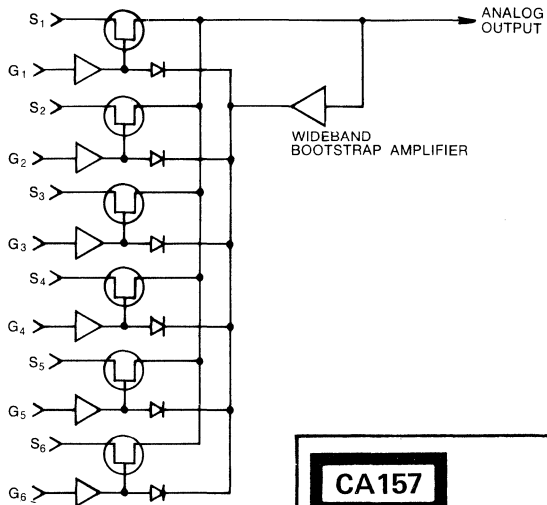
CA154



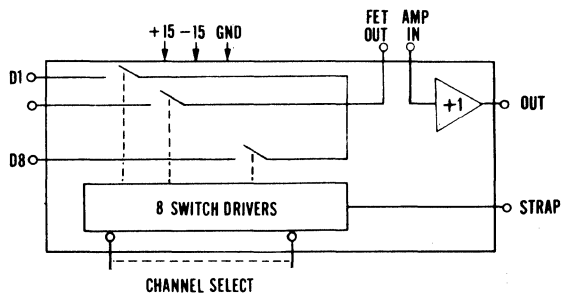
CA155



CA156



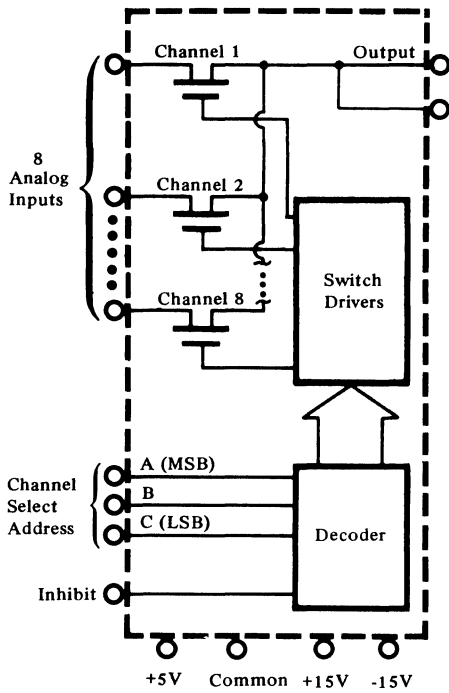
CA157



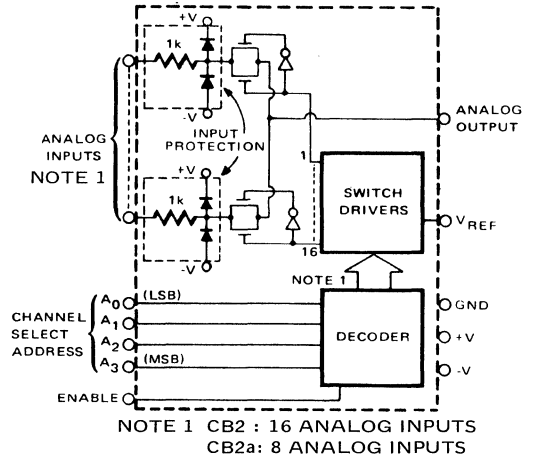
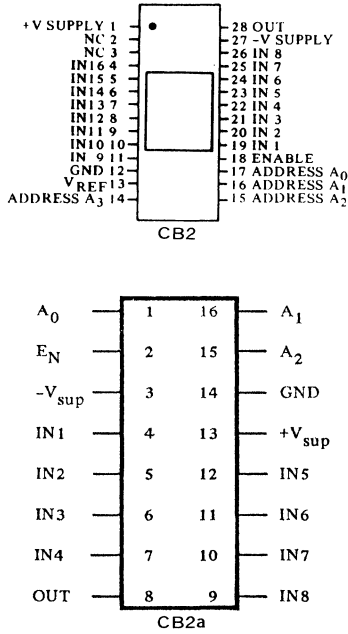
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

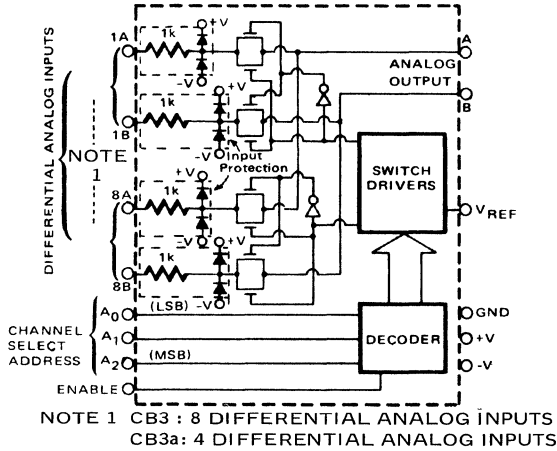
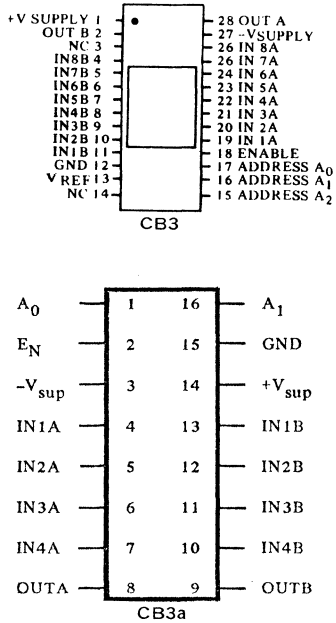
CB1



CB2



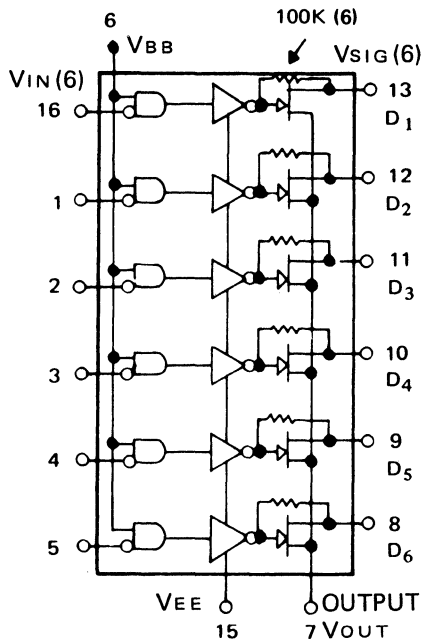
CB3



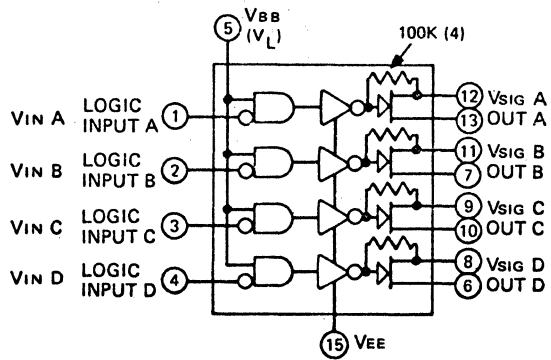
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

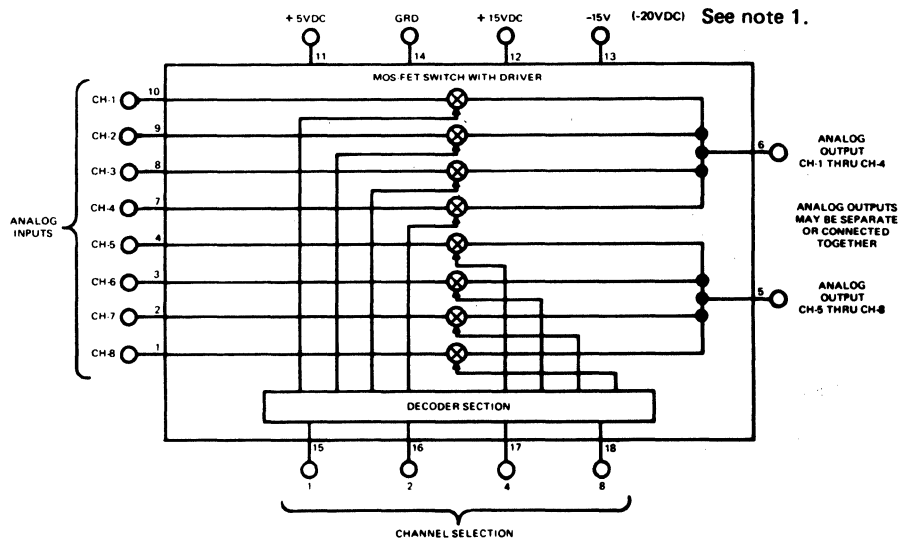
CB4



CB5



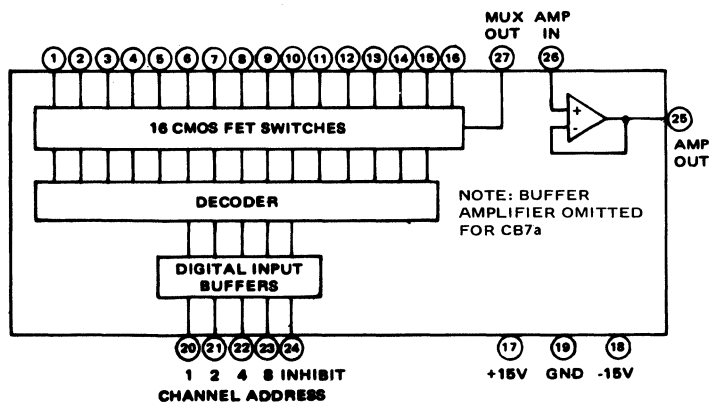
CB6



NOTE 1

For $\pm 5V$ FS or $0V$ to $+10V$ FS analog inputs, connect pin 13 to $-15V$ power. For $\pm 10V$ FS analog input, connect pin 13 to $-20V$ power.

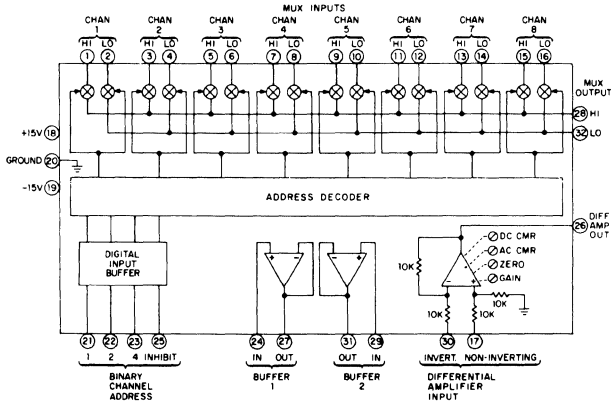
CB7



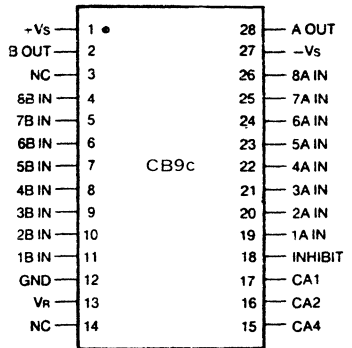
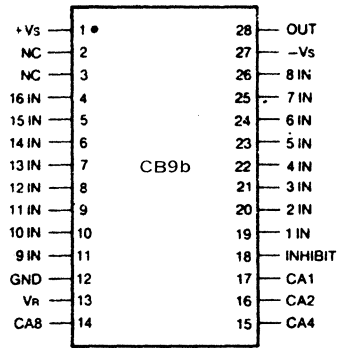
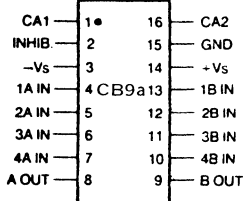
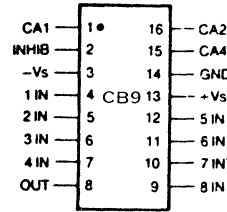
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

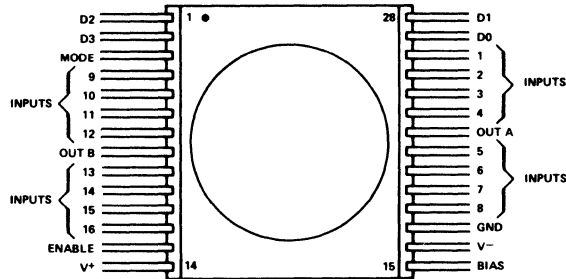
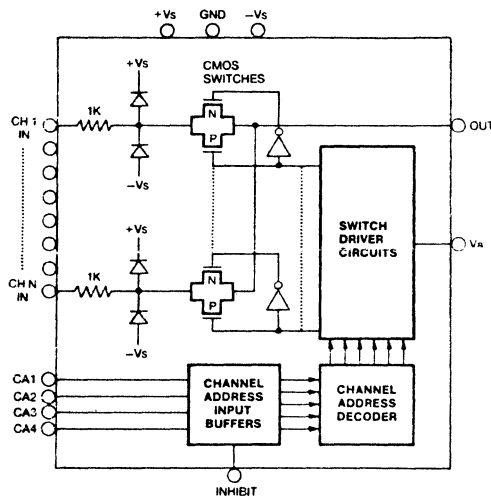
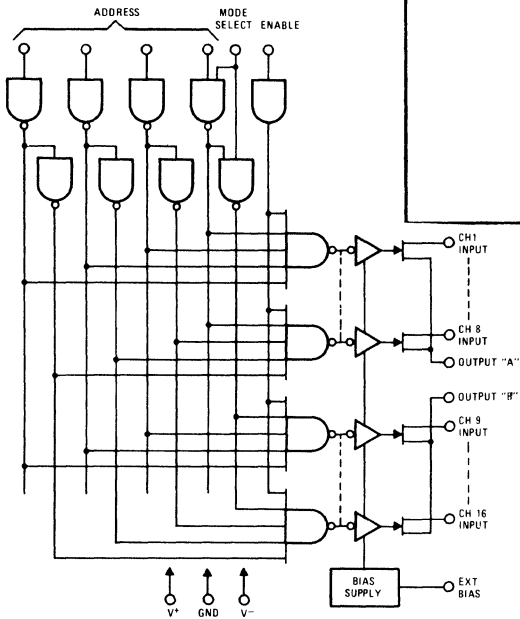
CB8



CB9



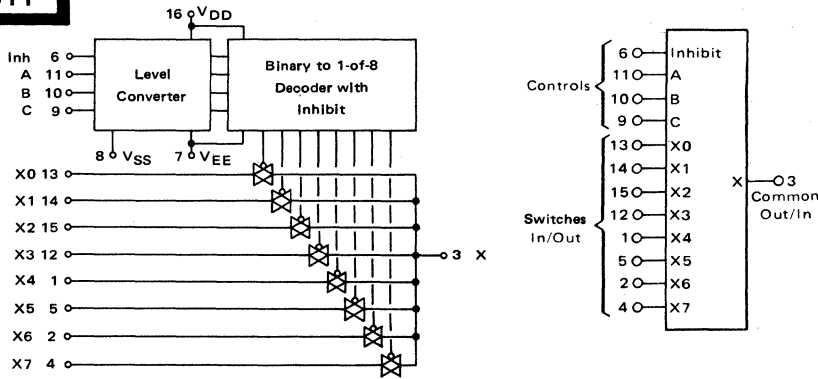
CB10



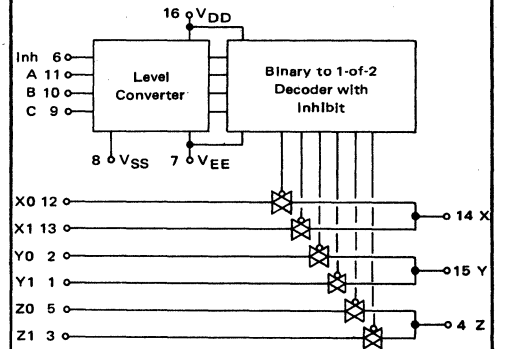
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

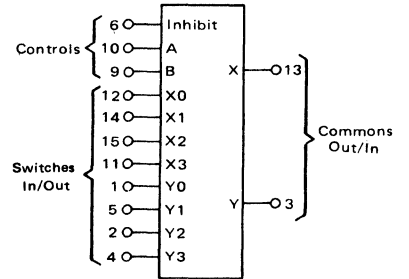
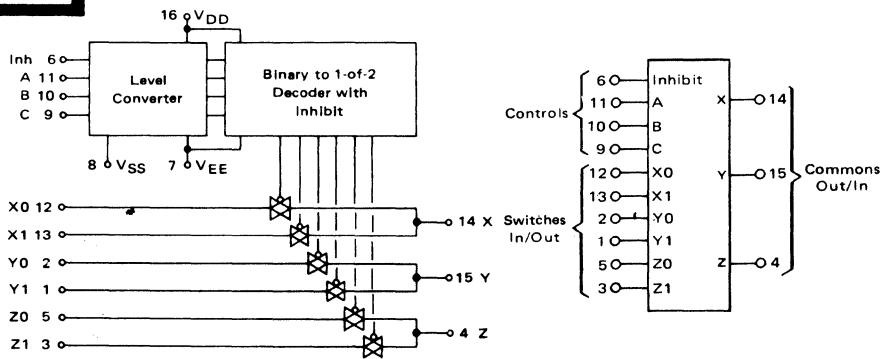
CB11



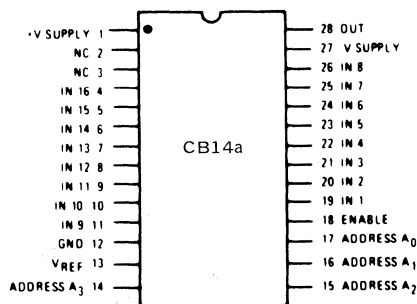
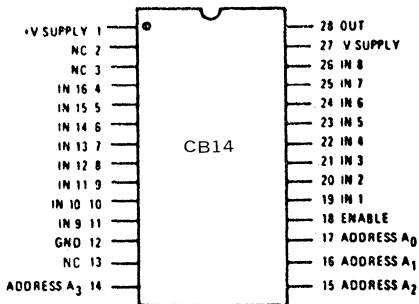
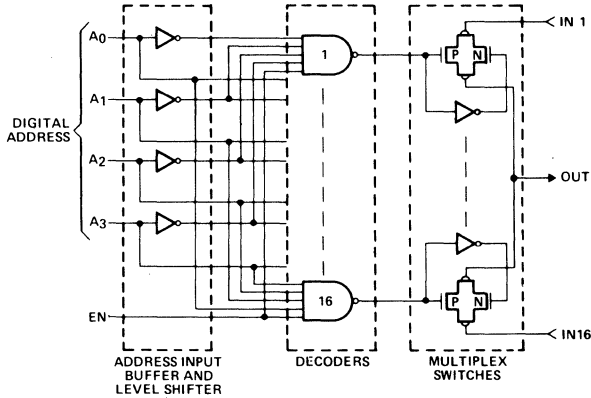
CB12



CB13



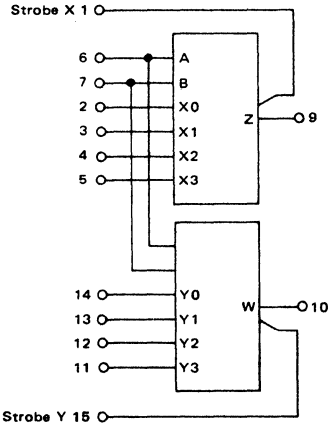
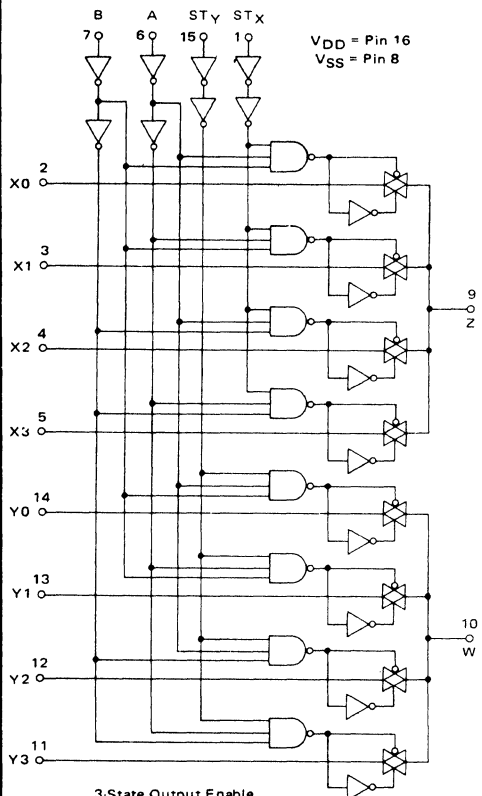
CB14



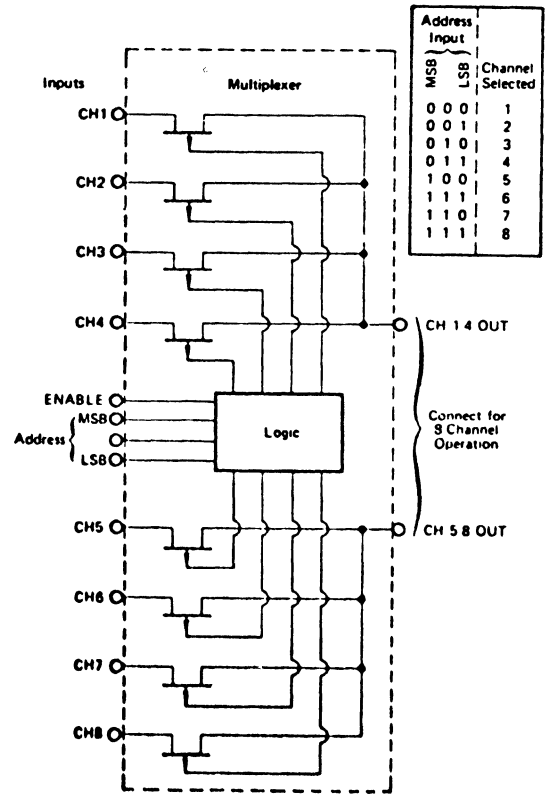
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

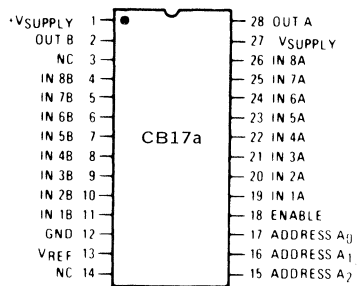
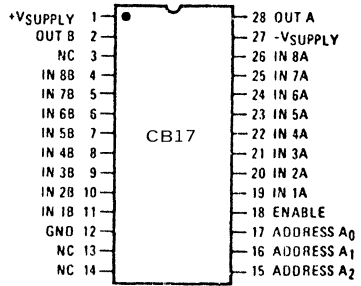
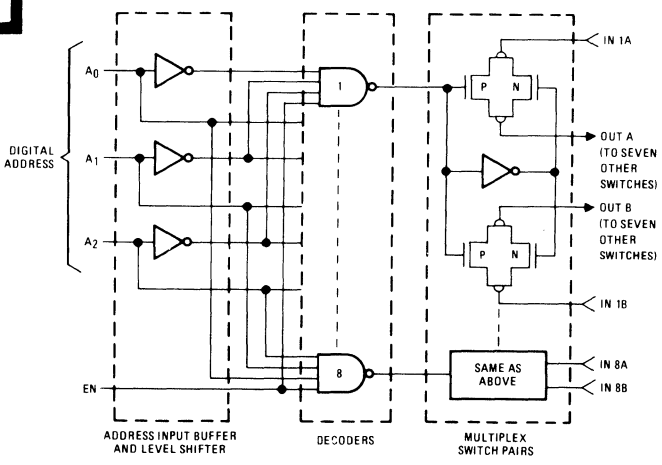
CB15



CB16



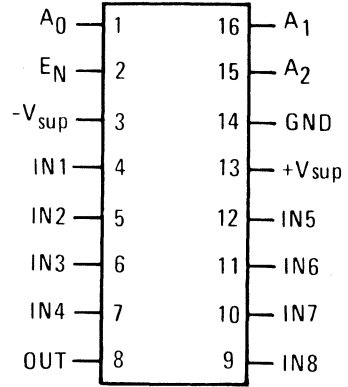
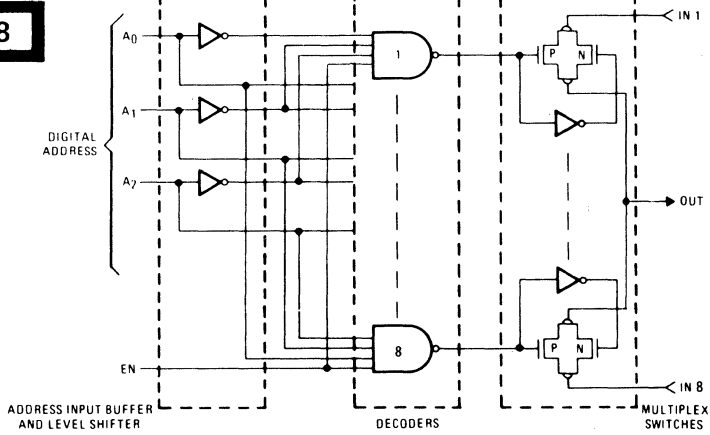
CB17



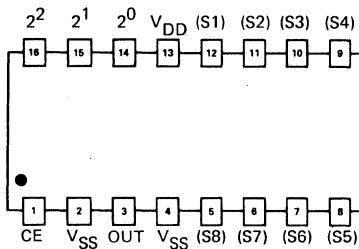
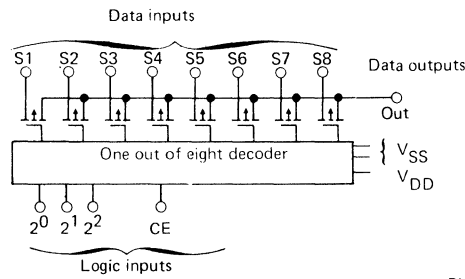
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

CB18

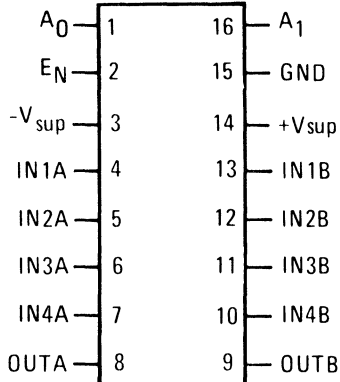
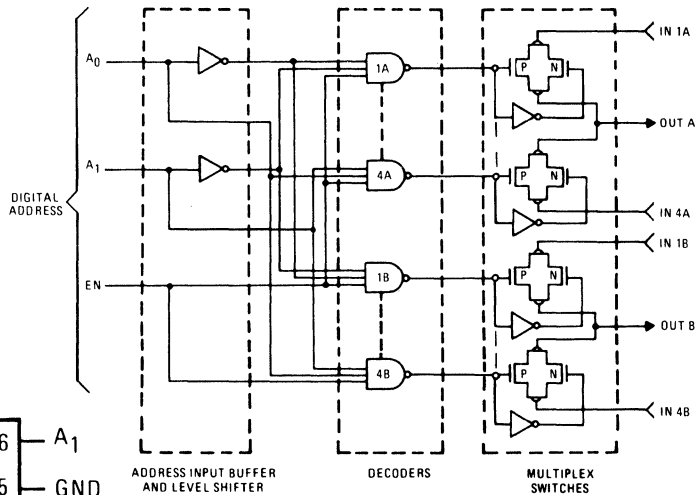


CB19



Pin 2 and 4 are internally connected to case and device bulk.

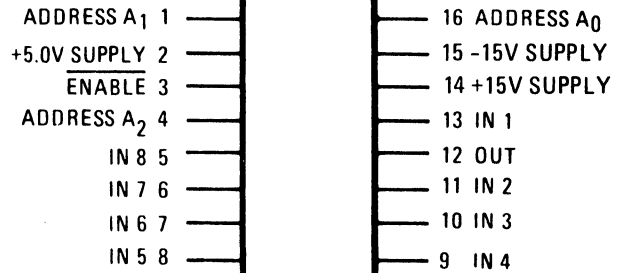
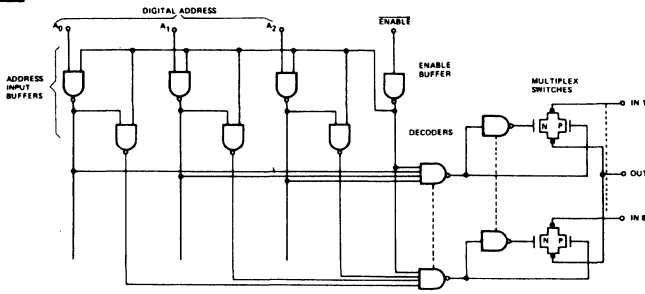
CB20



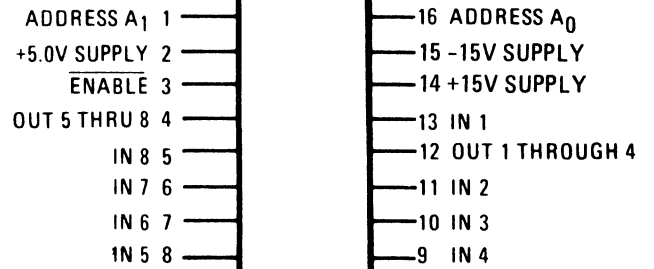
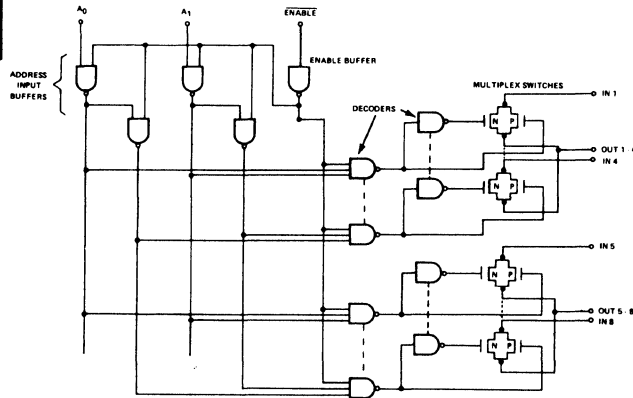
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

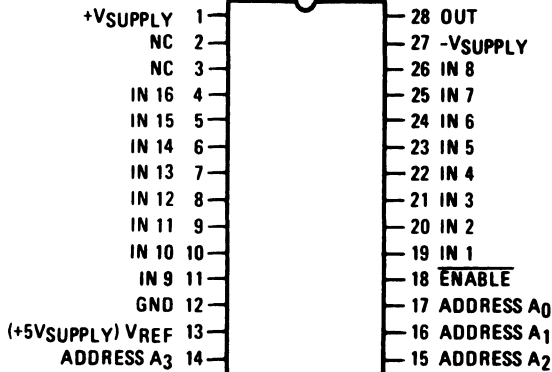
CB21



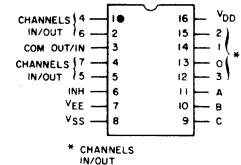
CB22



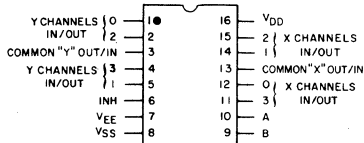
CB23



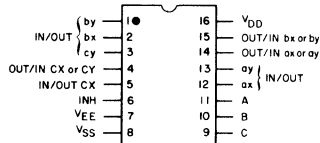
CB24



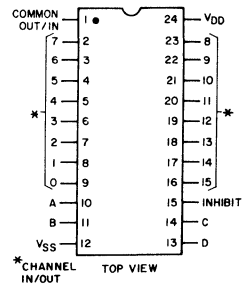
CB25



CB26



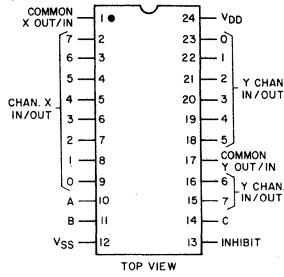
CB27



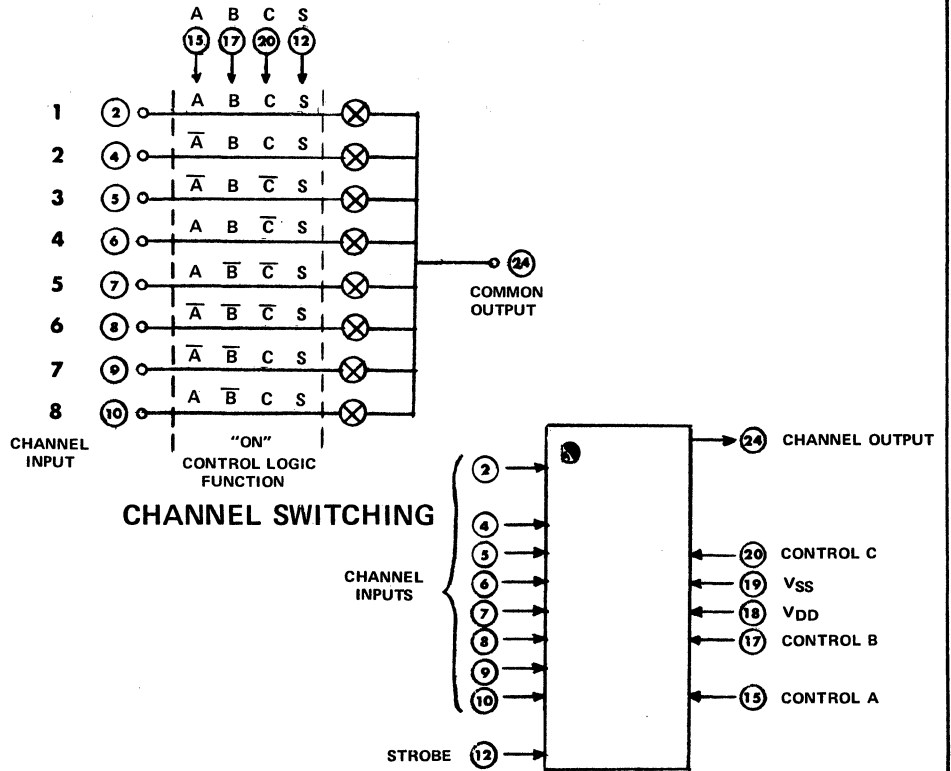
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

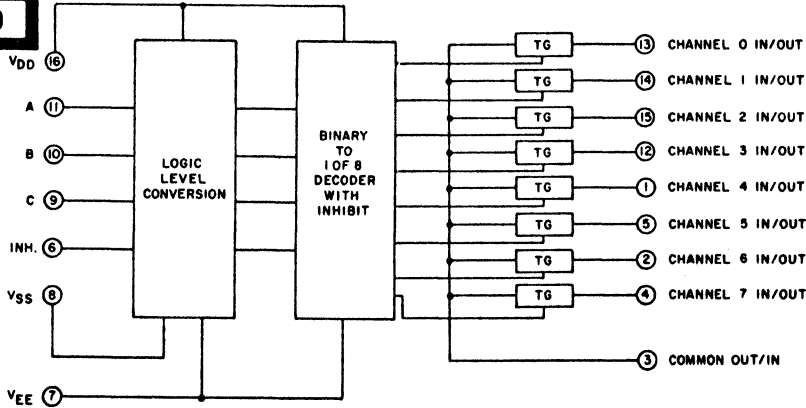
CB28



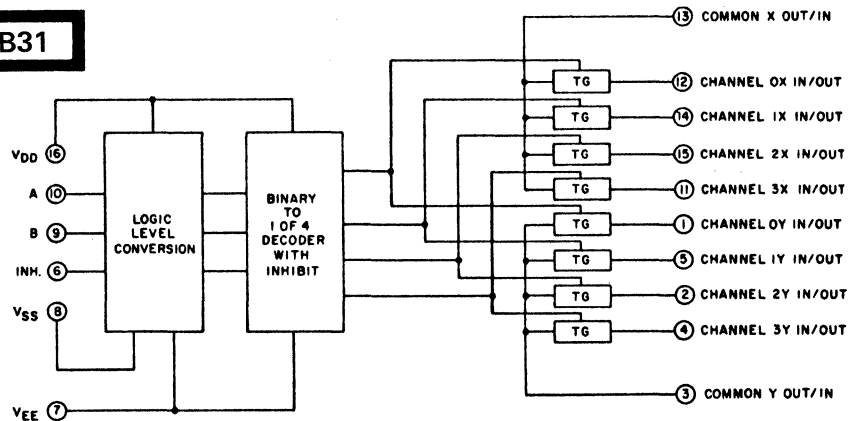
CB29



CB30



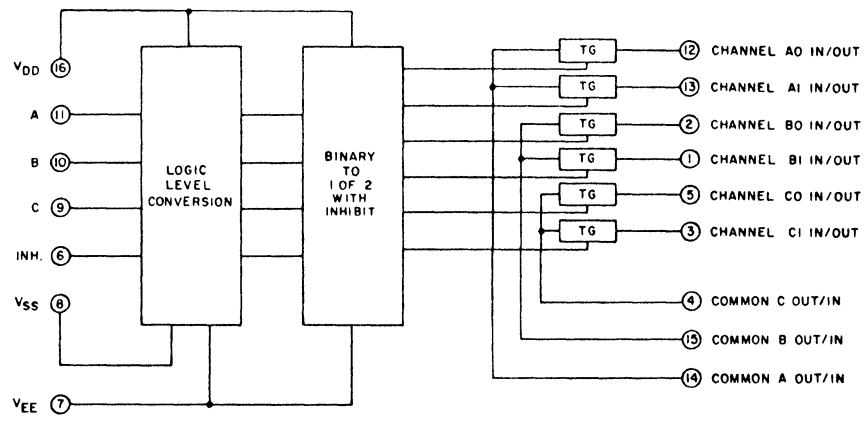
CB31



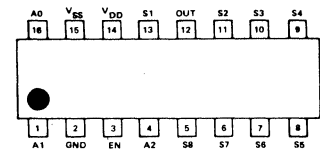
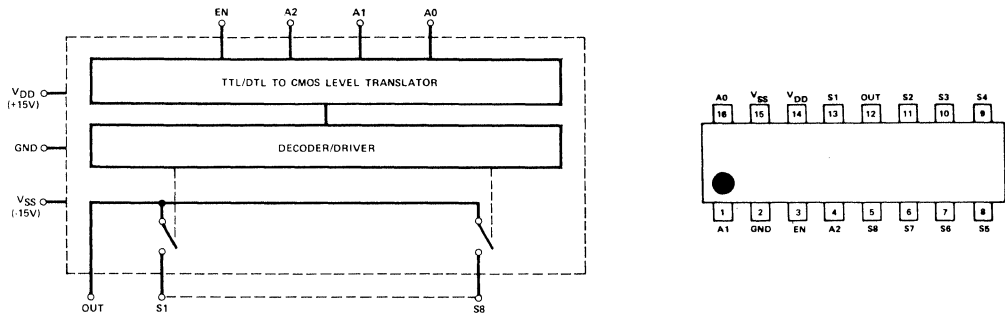
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

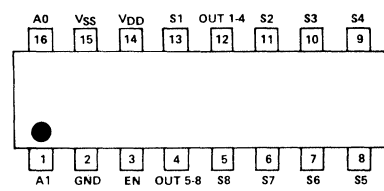
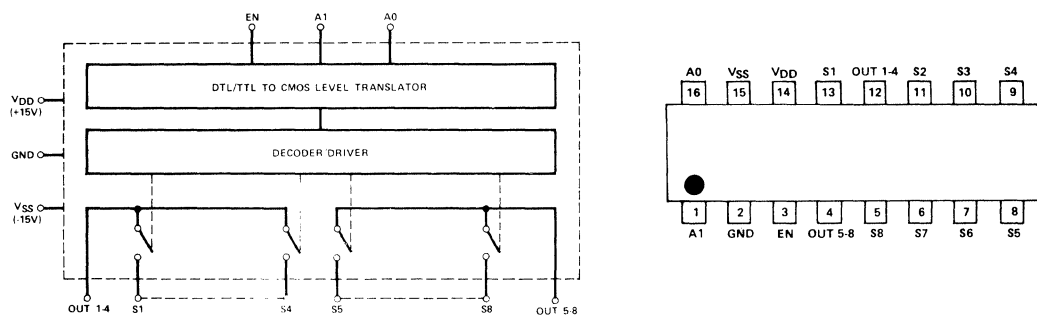
CB32



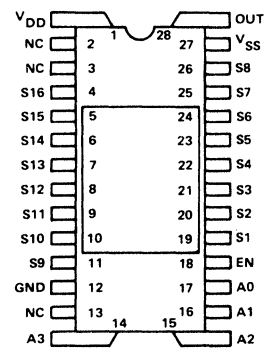
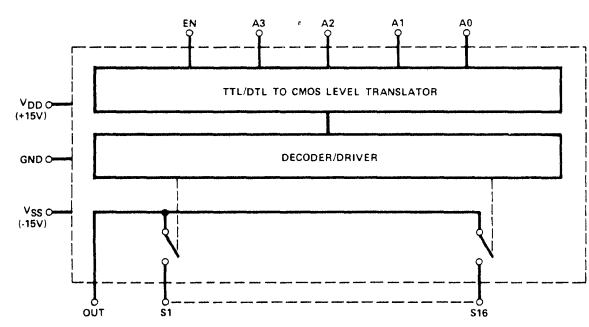
CB33



CB34



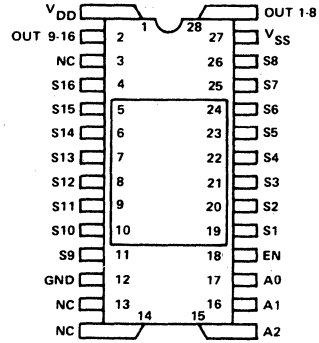
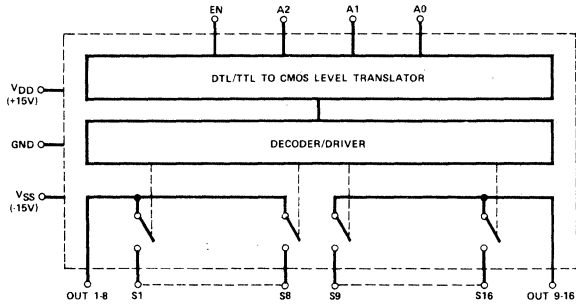
CB35



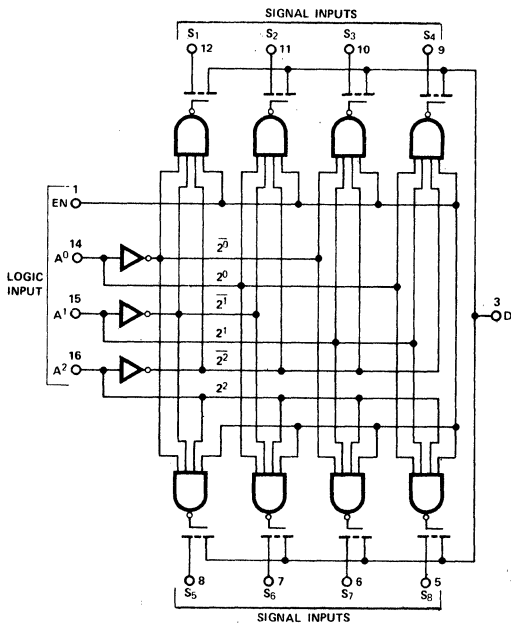
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

CB36



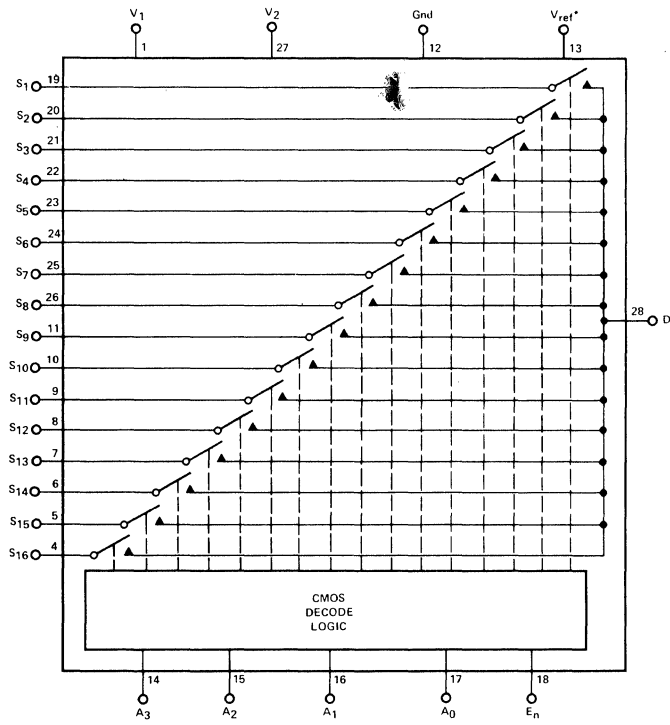
CB37



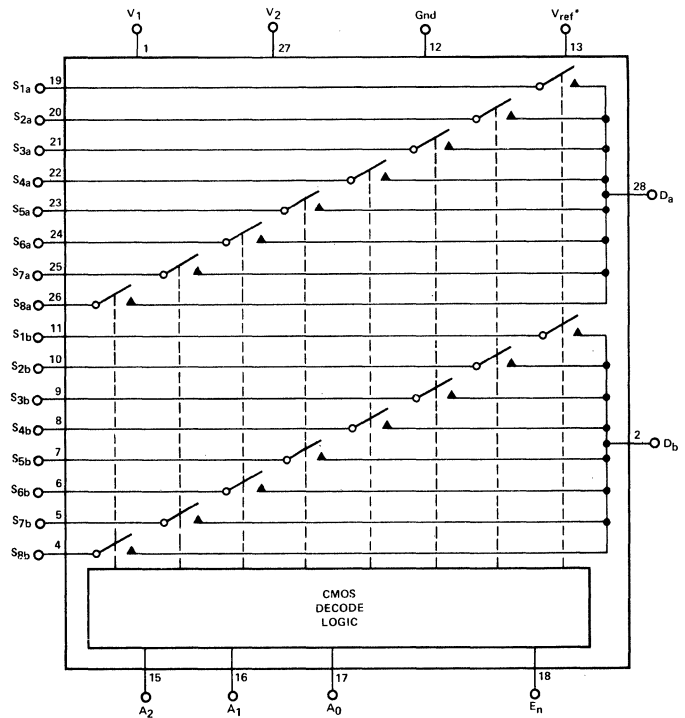
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

CB38



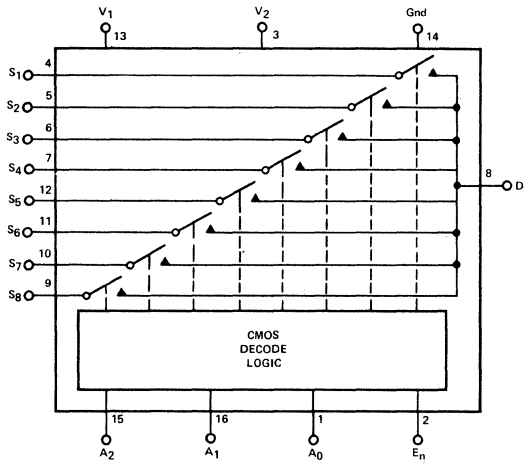
CB39



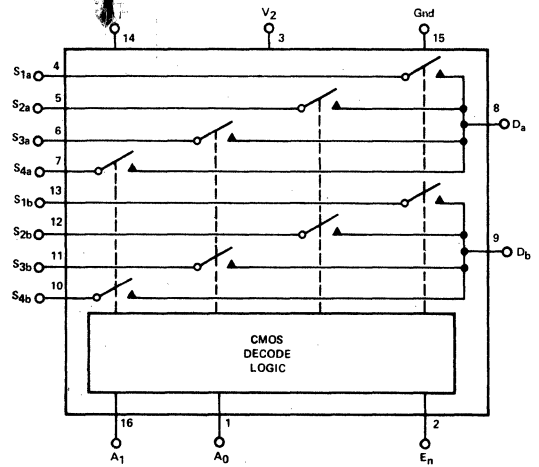
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

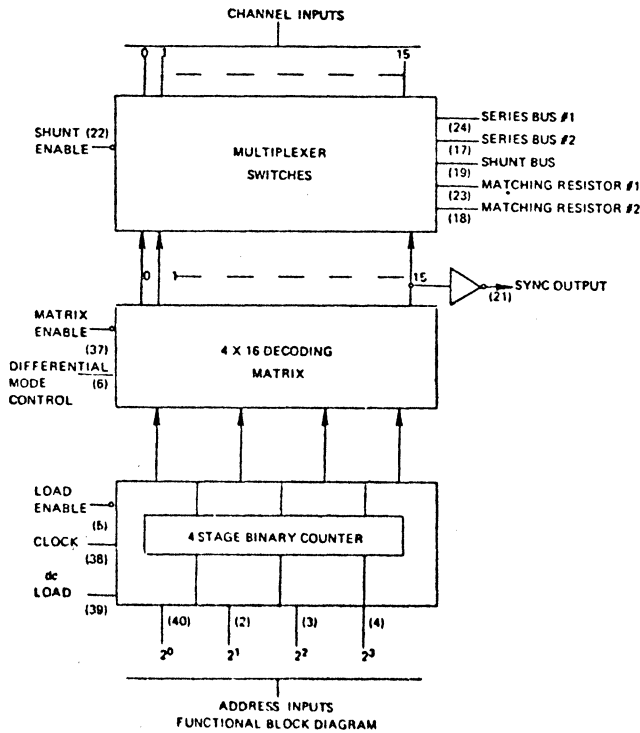
CB40



CB41



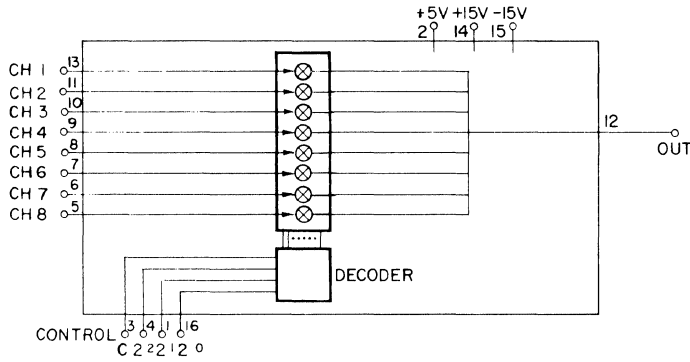
CB42



27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

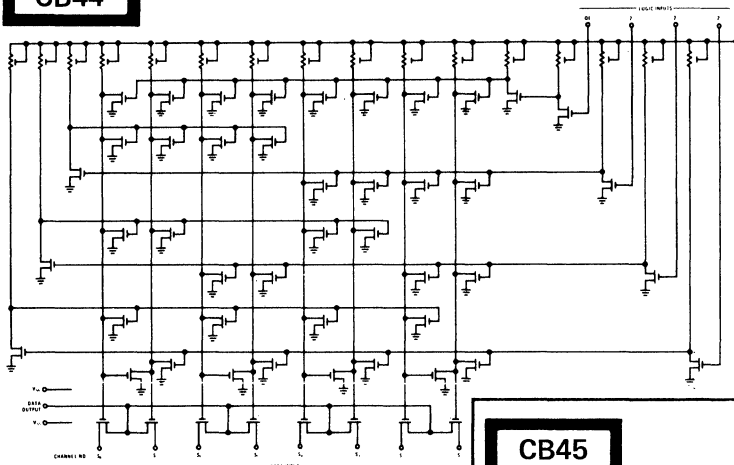
CB43



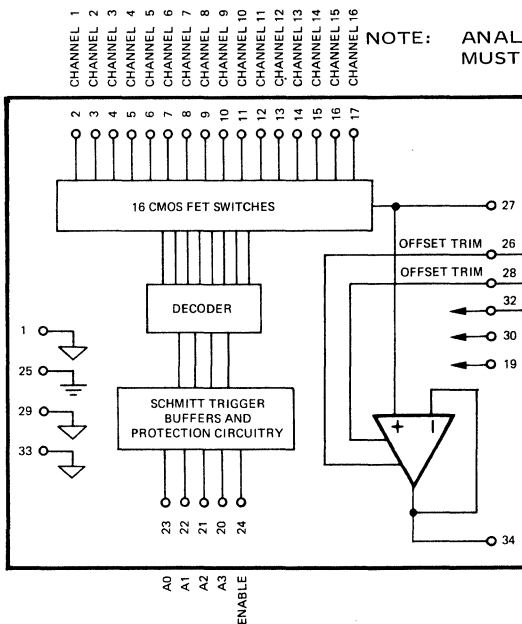
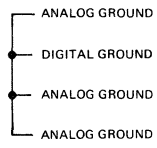
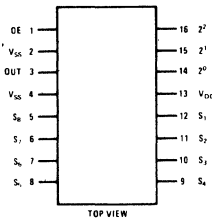
PIN	FUNCTION
1	2 1
2	+5V
3	CONTROL
4	2 2
5	CH 8
6	CH 7
7	CH 6
8	CH 5
9	CH 4
10	CH 3
11	CH 2
12	OUT
13	CH 1
14	+15V
15	-15V
16	2-0

NOTE: A LOW (0.8V) INTO THE CONTROL BIT ENABLES THE MULTIPLEXER

CB44



CB45

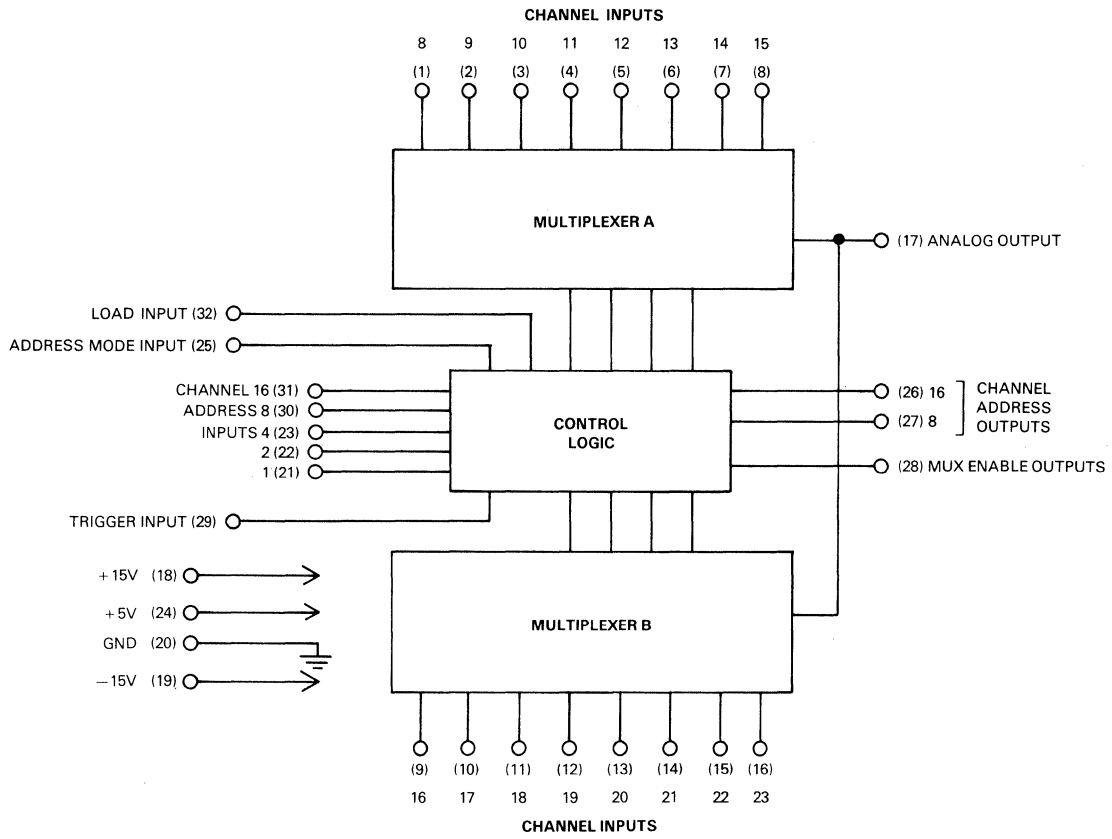


NOTE: ANALOG AND DIGITAL GROUNDS MUST BE EXTERNALLY CONNECTED

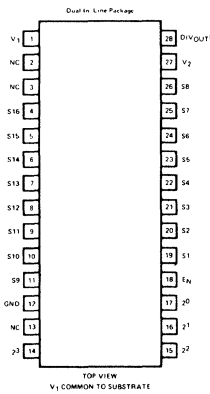
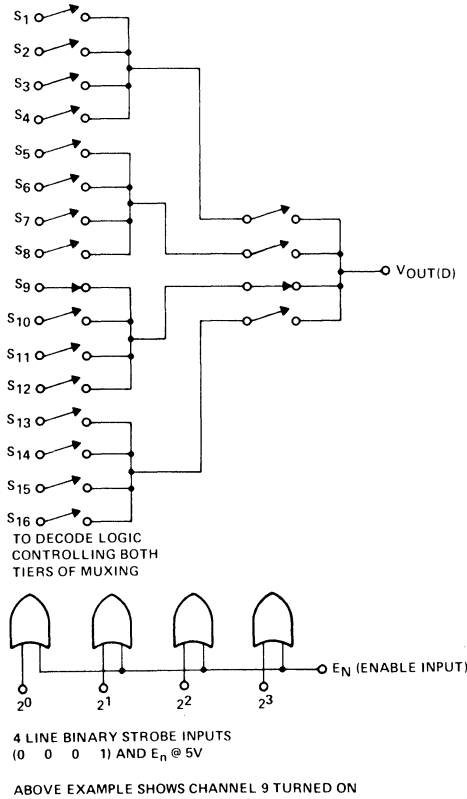
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

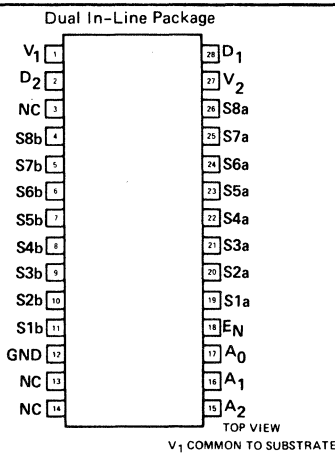
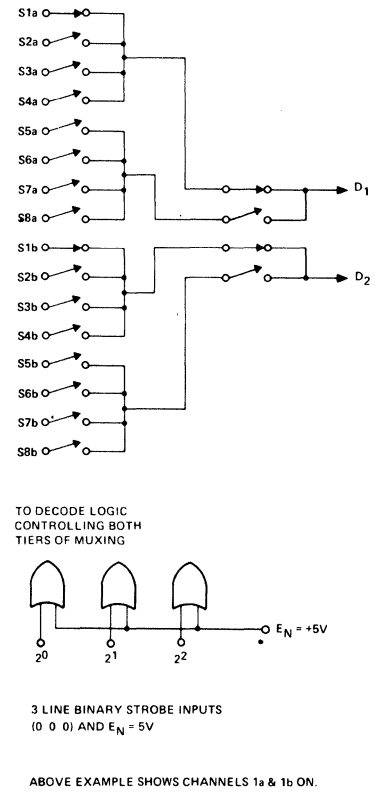
CB46



CB47



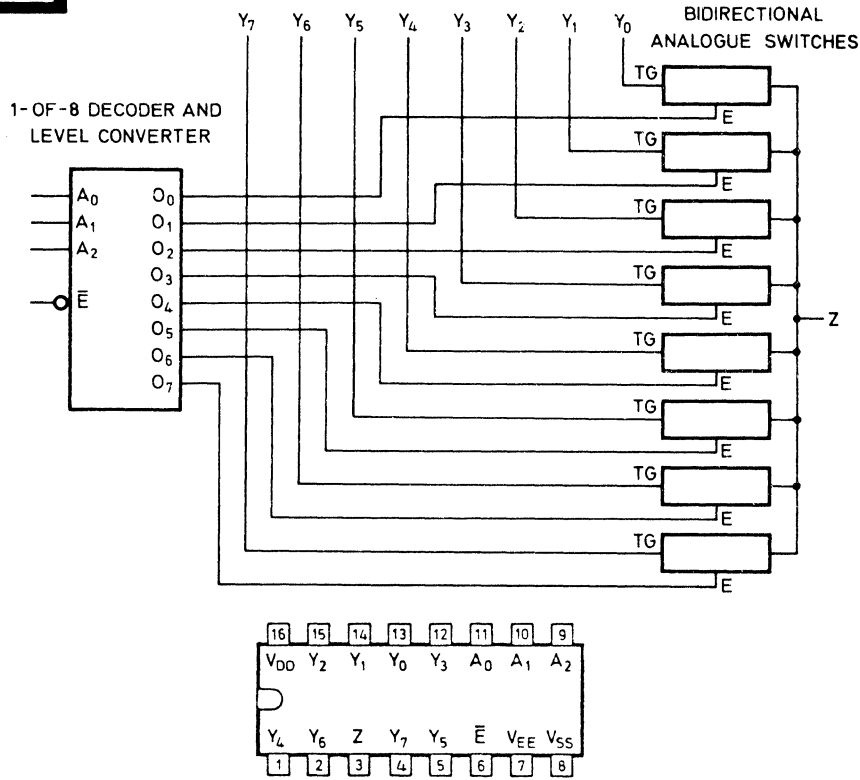
CB48



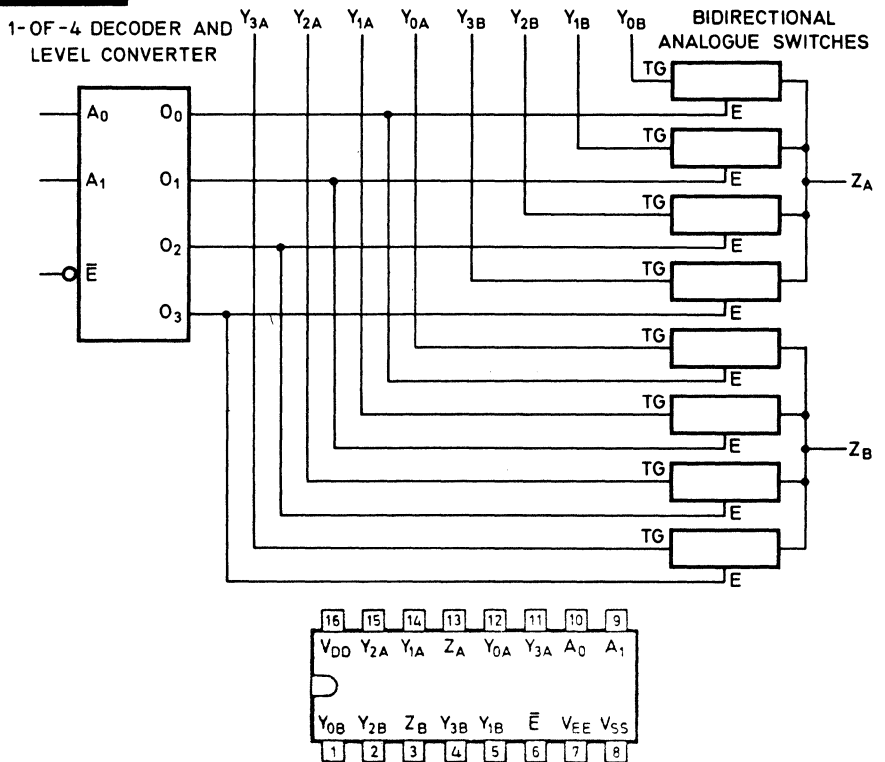
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

CB49



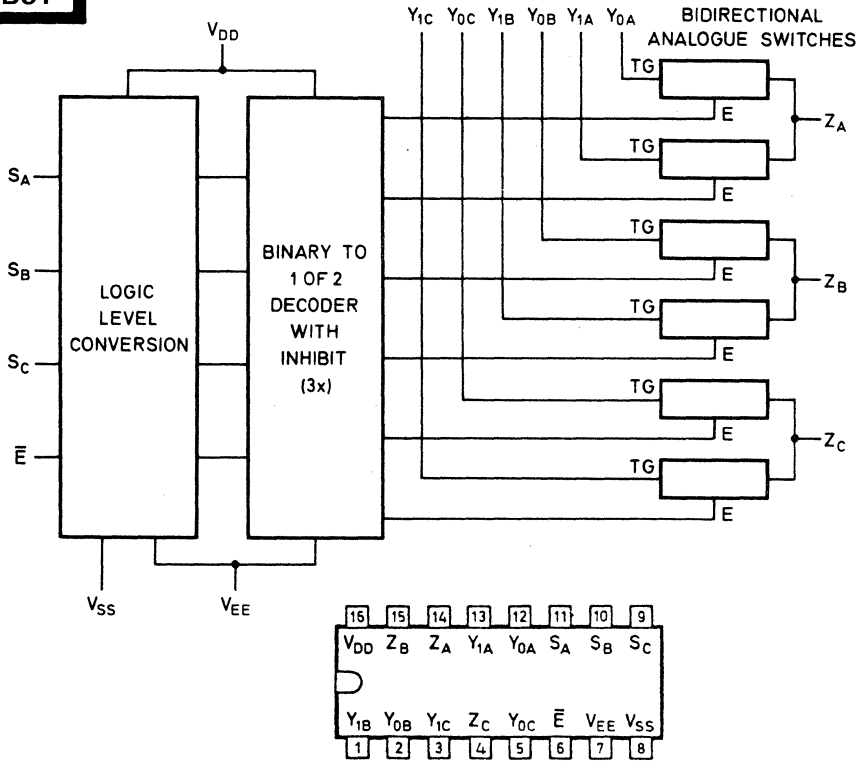
CB50



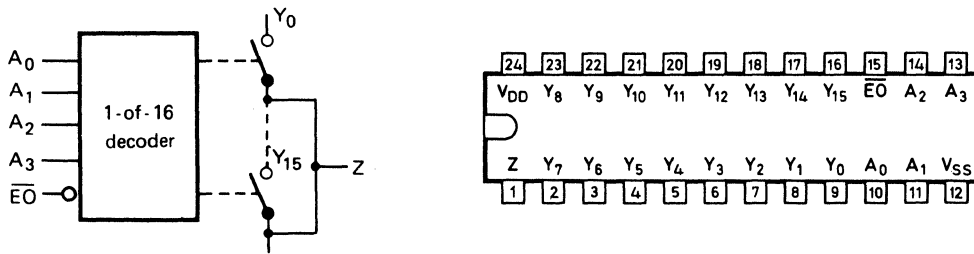
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

CB51



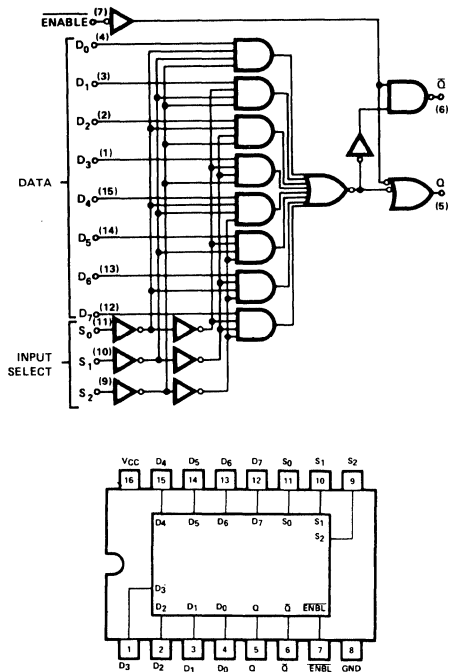
CB52



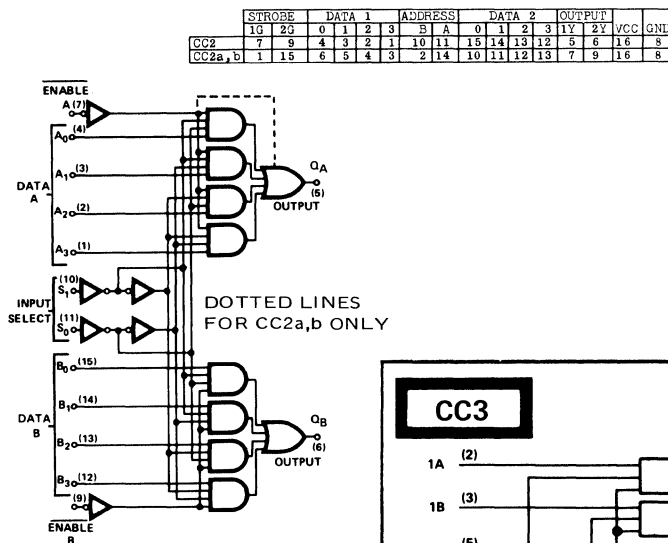
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

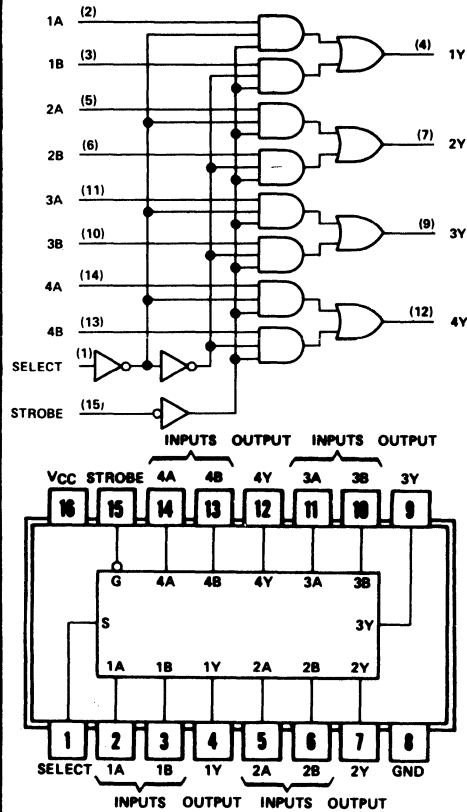
CC1



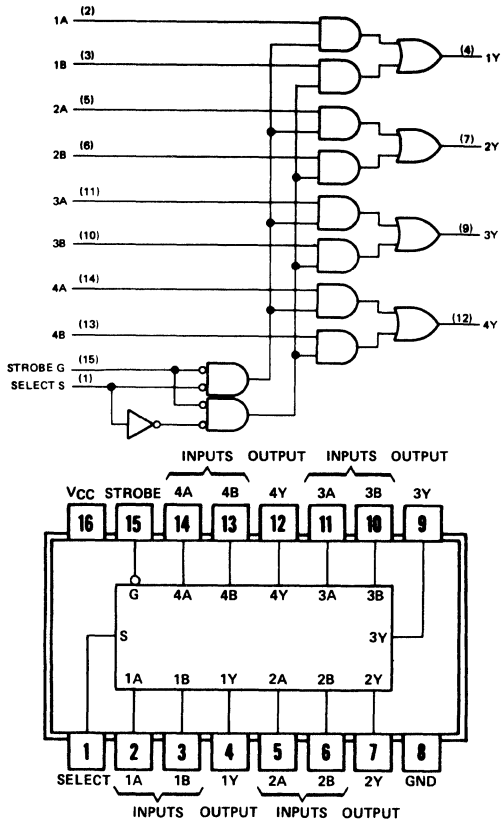
CC2



CC3



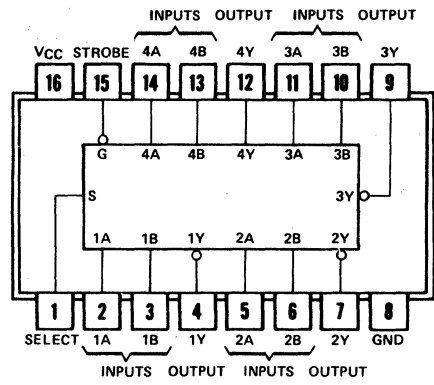
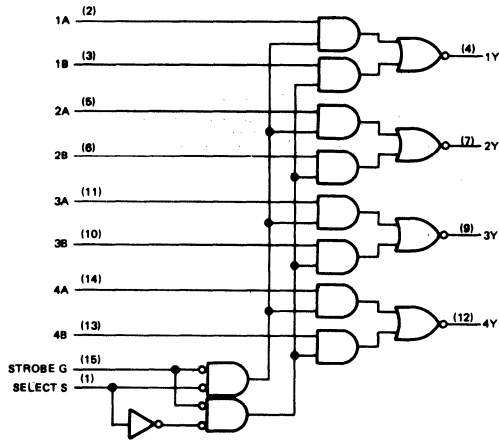
CC4



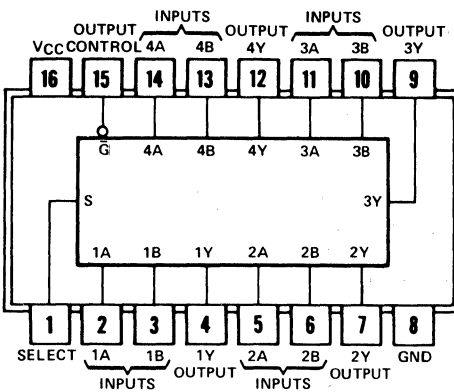
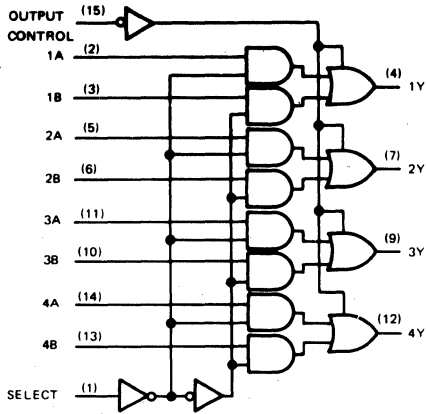
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

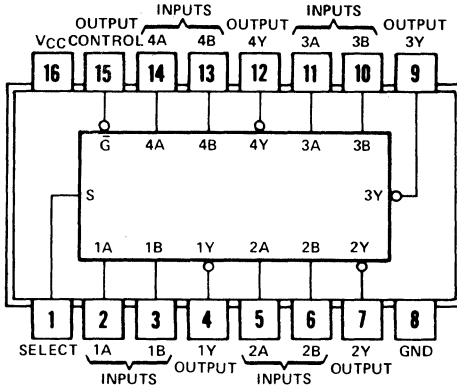
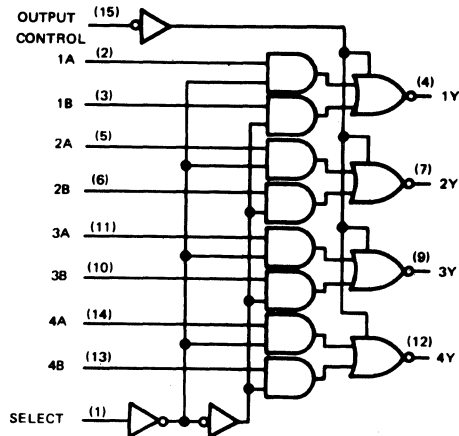
CC5



CC6



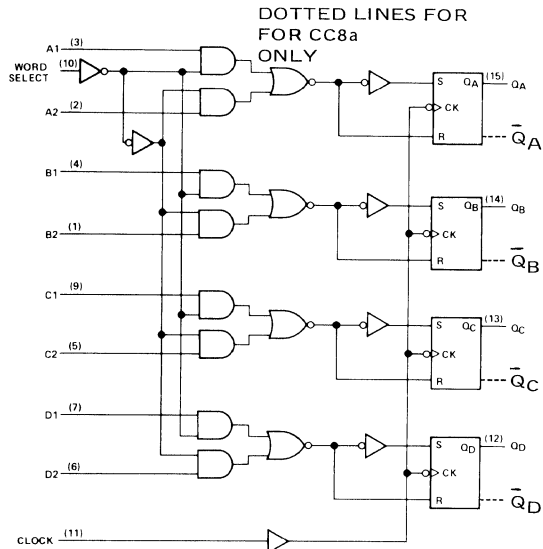
CC7



27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

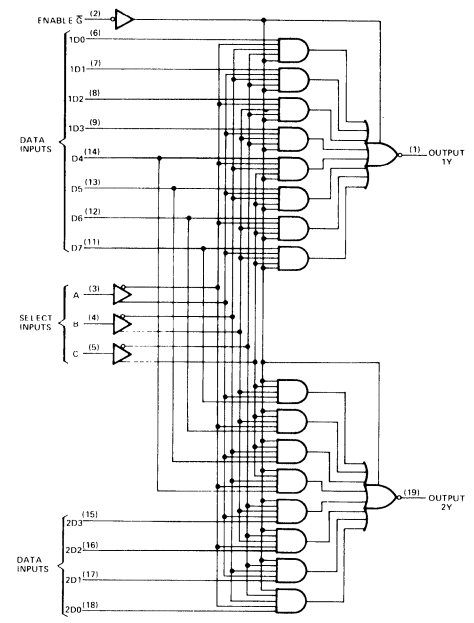
CC8



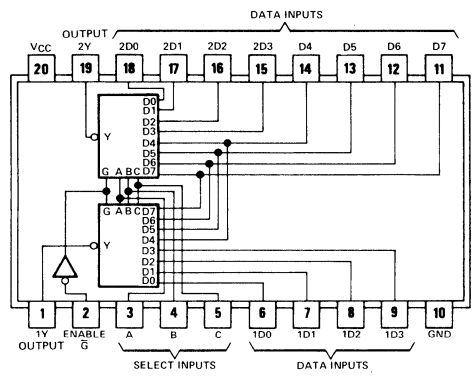
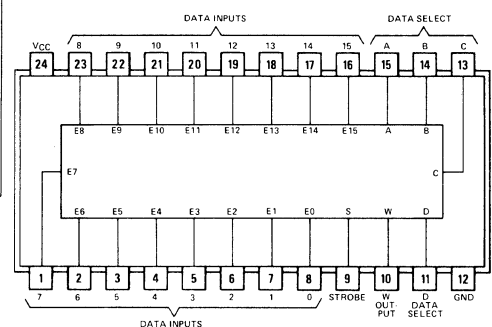
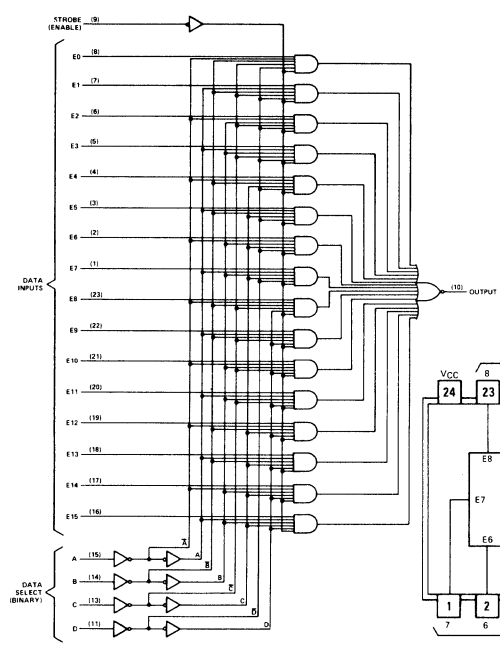
⊕ ... Dynamic input activated by a transition from a high level to a low level

	A	B	C	D	Q	Q	WORD SELECT	CLOCK	VCC	GND						
CC8	1	2	1	2	1	2	A B C D	10	11	18	8					
CC8a	4	5	7	6	15	14	13 12	2	9	12 19	3 8 13 18	1	11	20	10	
CC8b	3	4	6	5	11	12	14 13	2	7	10 15			1	9	16	8

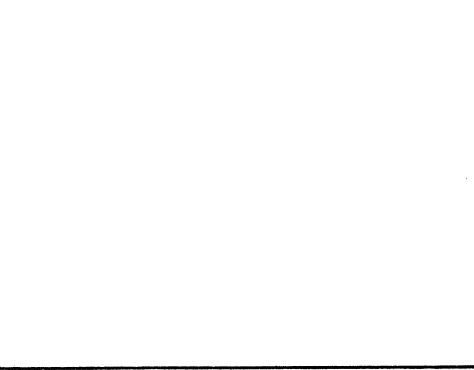
CC9



CC10



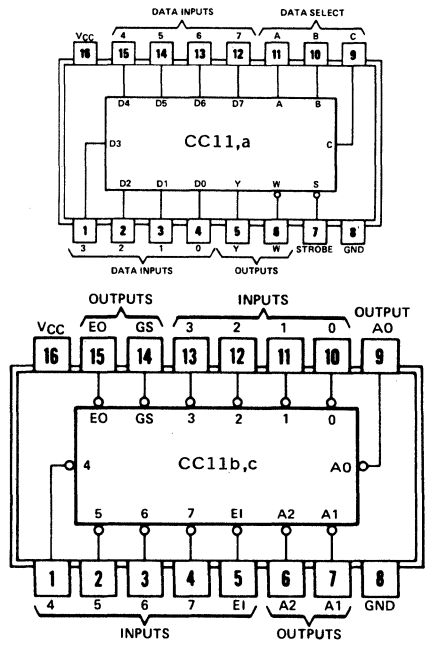
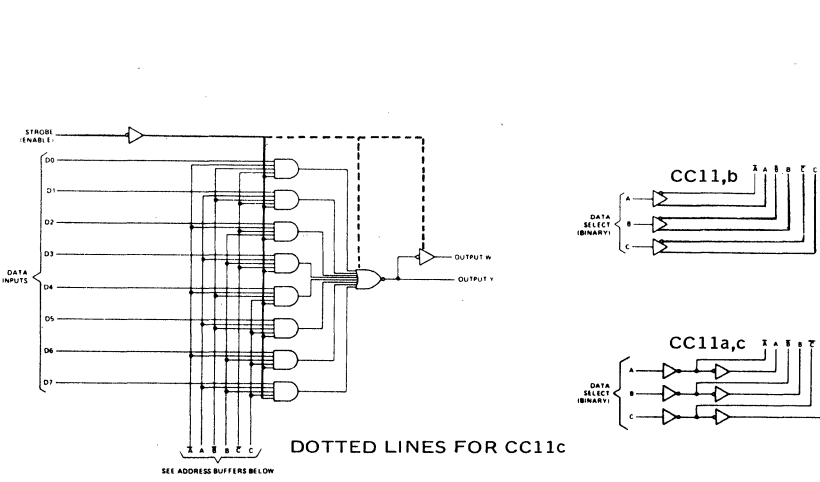
CC11



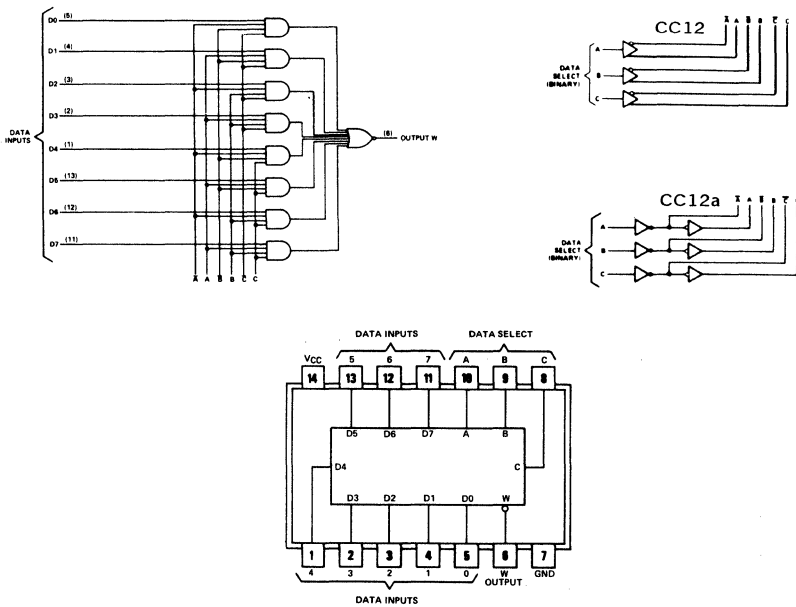
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

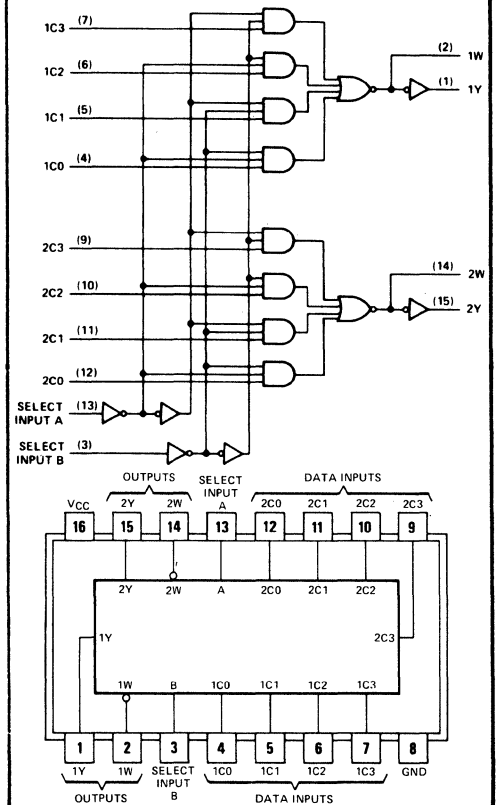
CC11



CC12



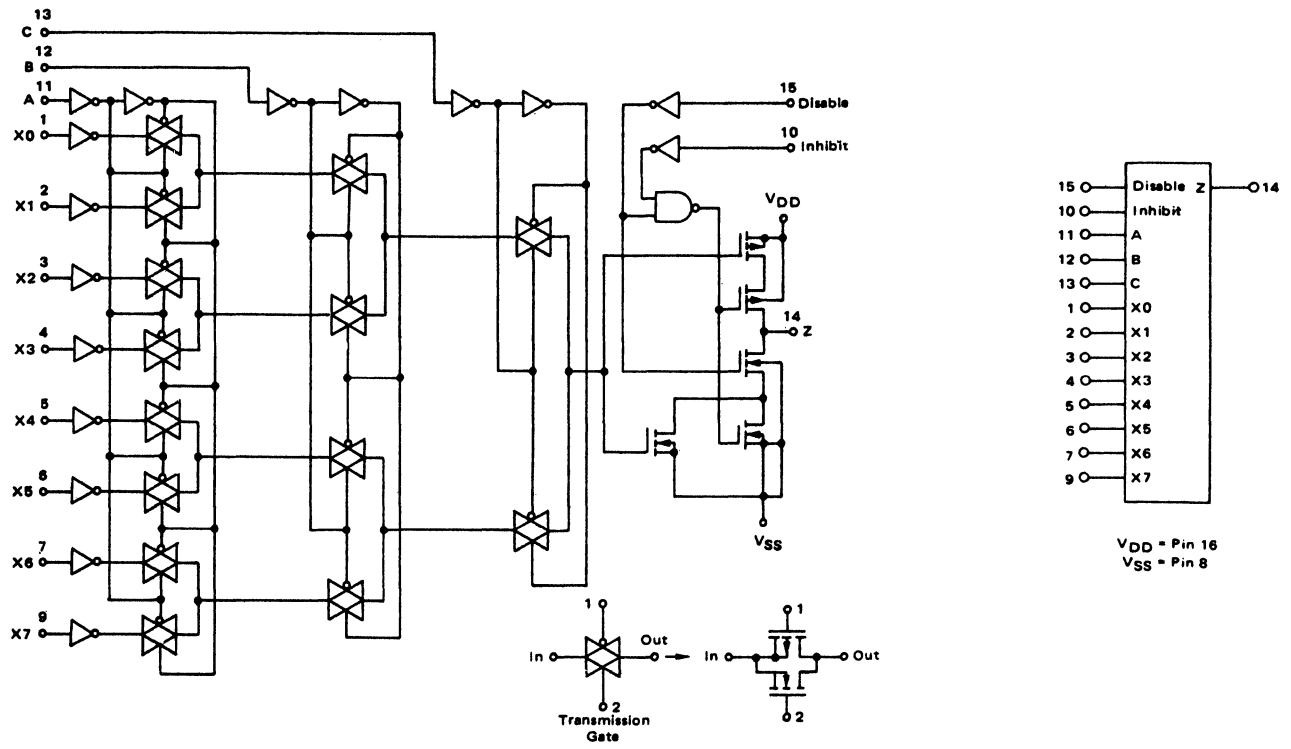
CC13



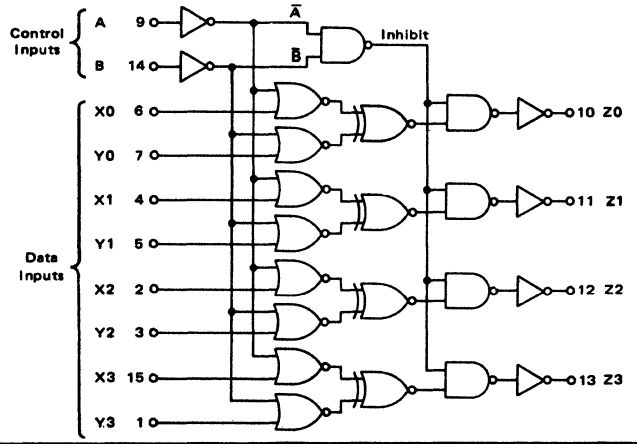
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

CC14



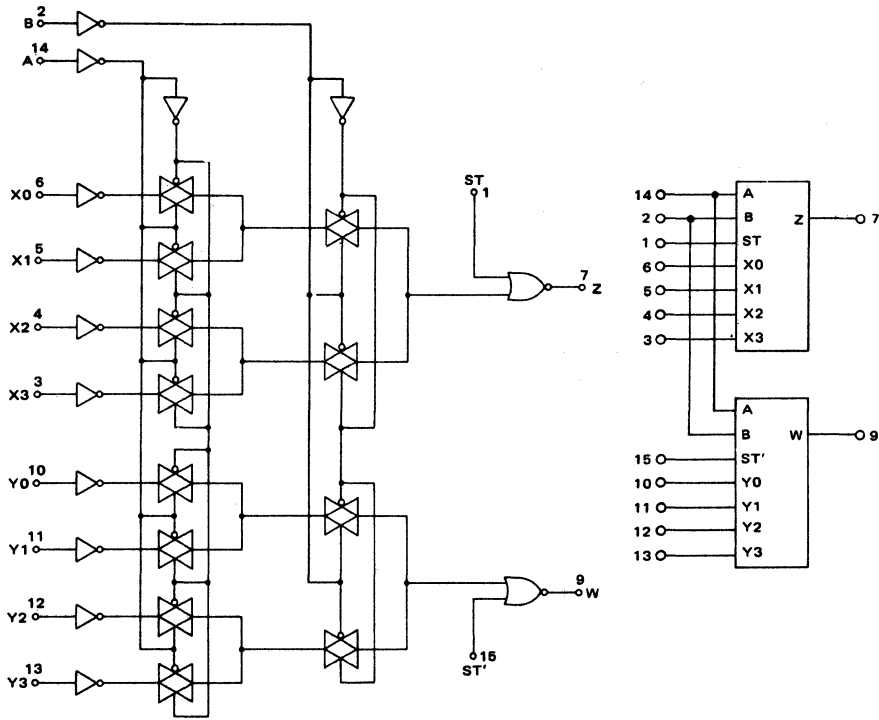
CC15



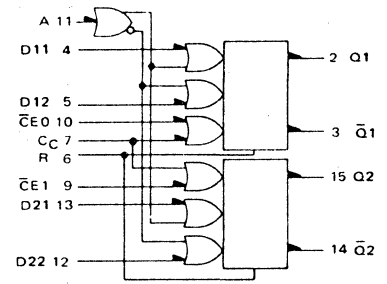
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

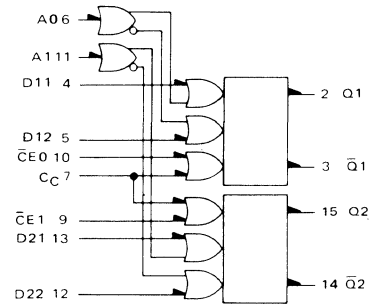
CC16



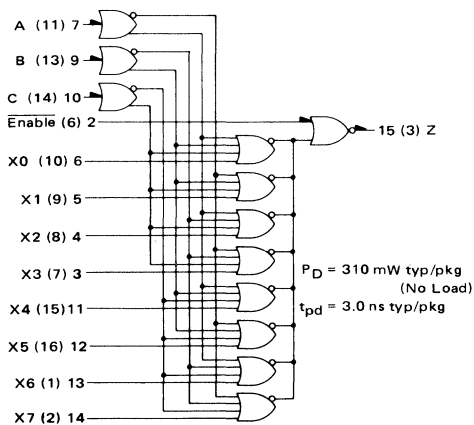
CC17



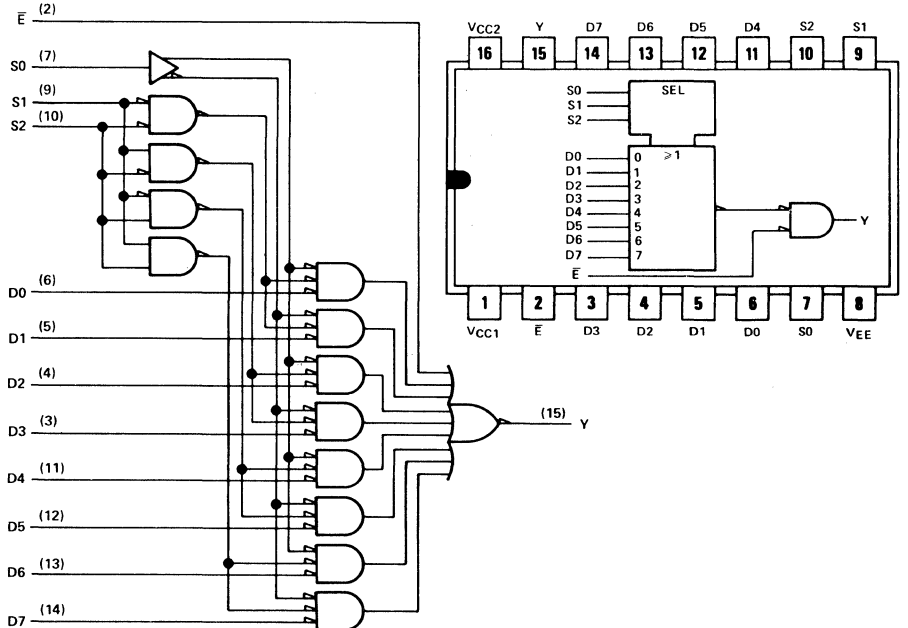
CC18



CC19



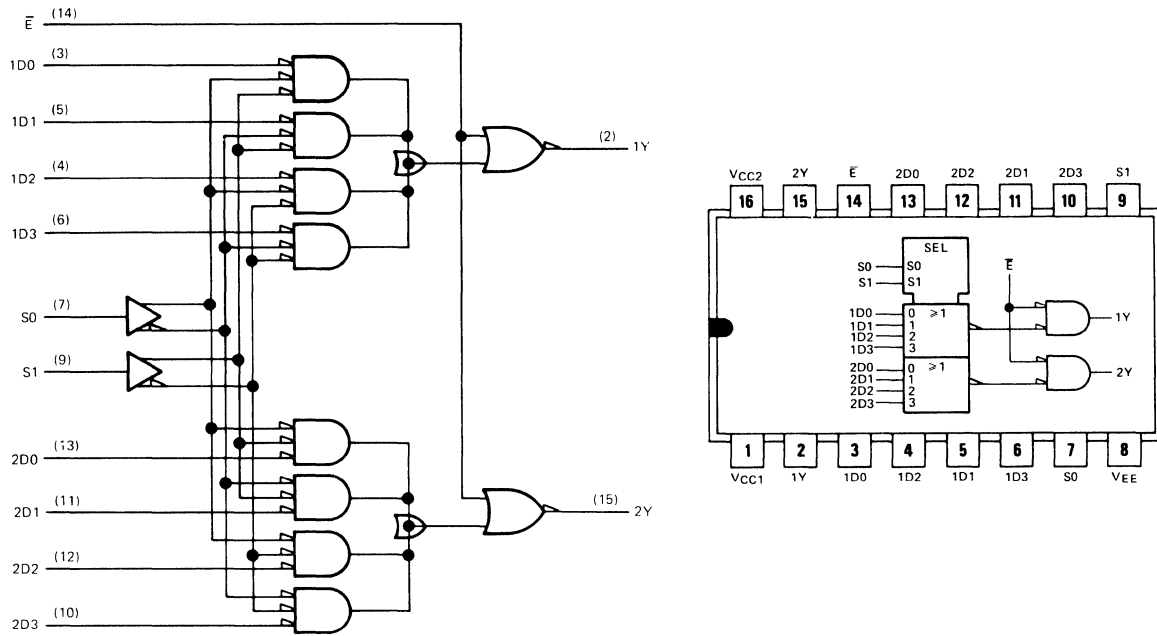
CC20



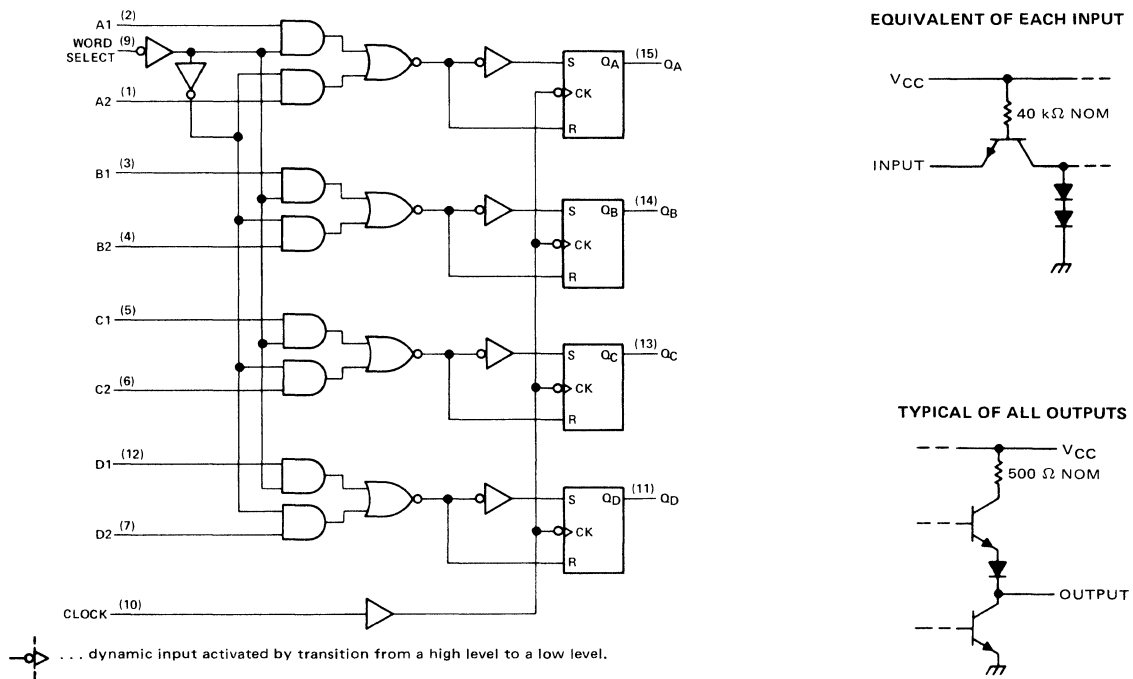
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

CC21



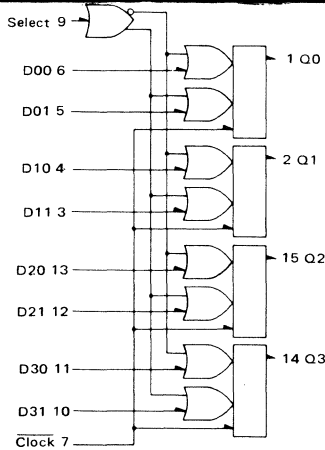
CC22



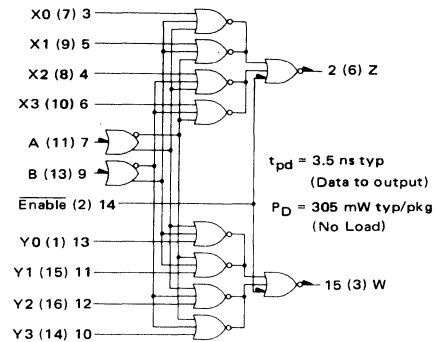
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

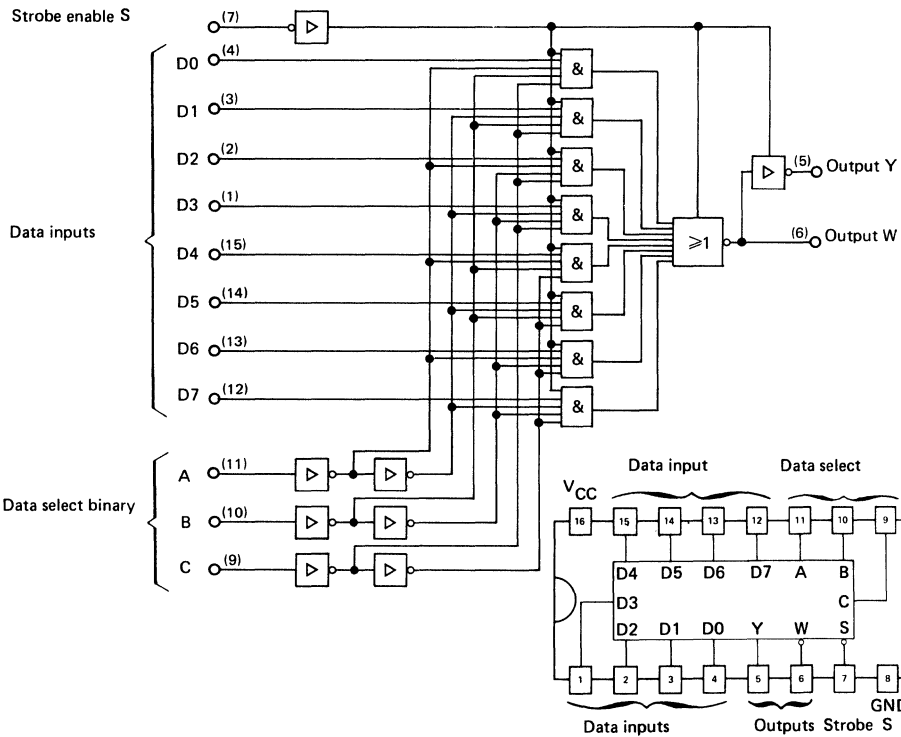
CC23



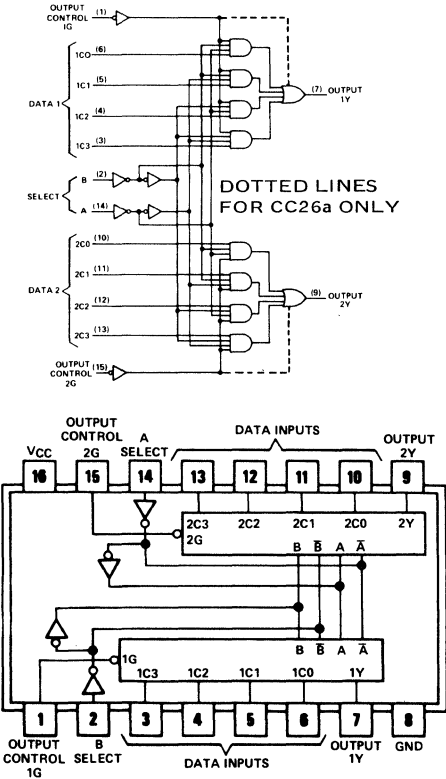
CC24



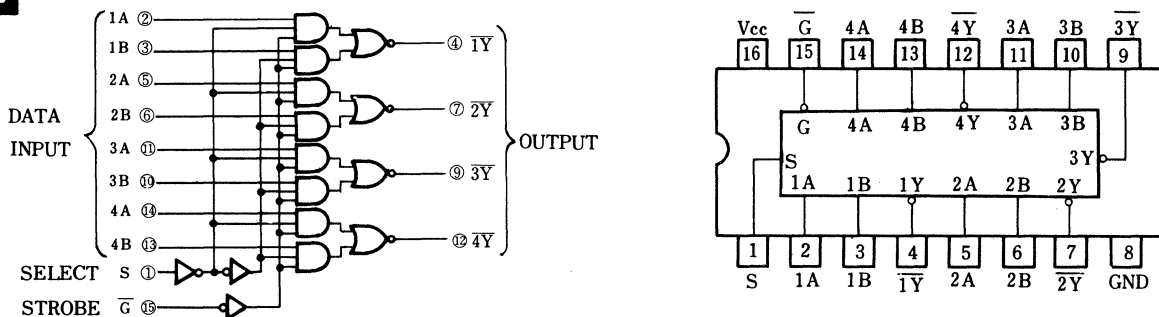
CC25



CC26



CC27

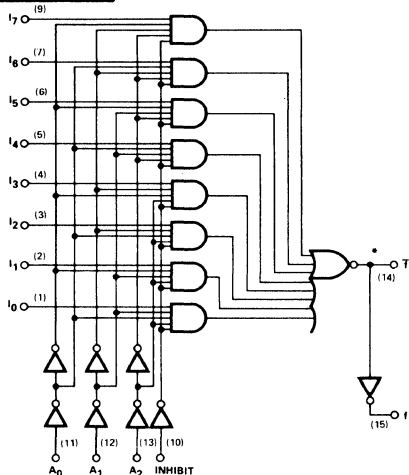


27. LOGIC/BLOCK DRAWINGS

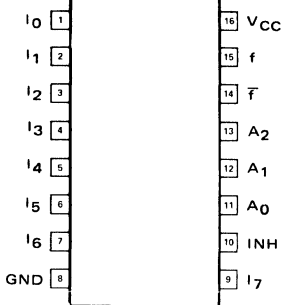
IN DRAWING NUMBER
SEQUENCE

CC28

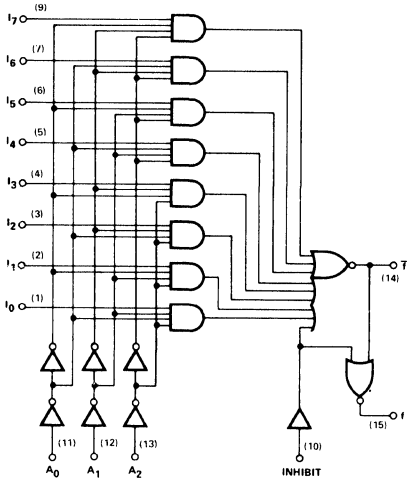
VCC = (16)
GND = (8)
() - denotes pin numbers



* CC28a HAS OPEN COLLECTOR.

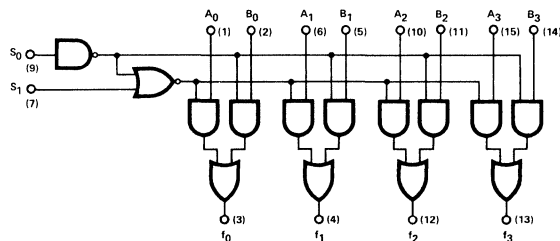


CC29

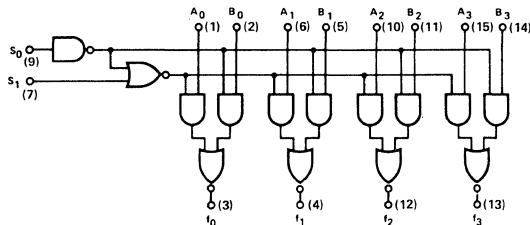


VCC = (16)
GND = (8)
() - denotes pin numbers

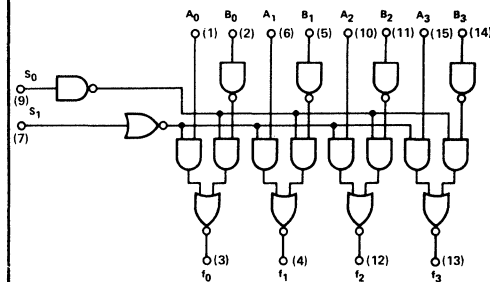
CC30



CC31



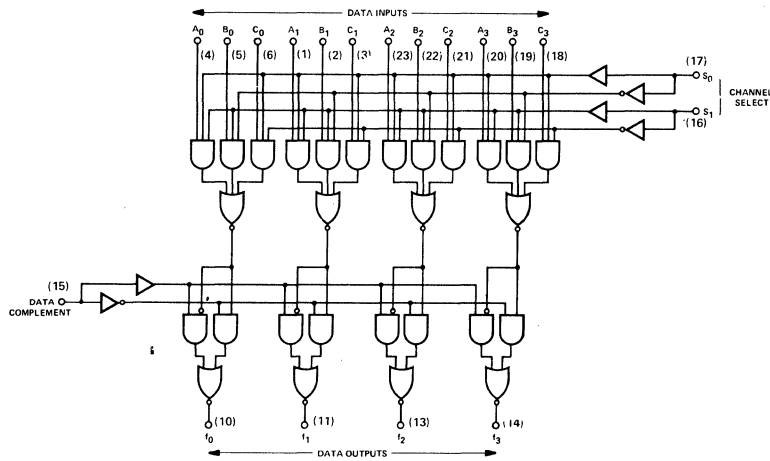
CC32



27. LOGIC/BLOCK DRAWINGS

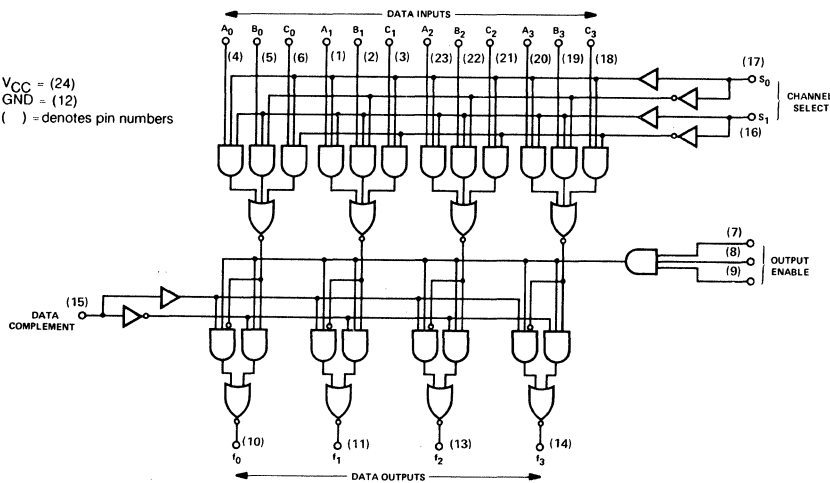
IN DRAWING NUMBER SEQUENCE

CC33



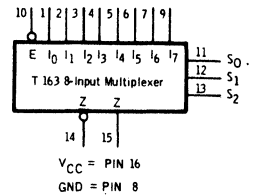
$V_{CC} = (24)$
 $GND = (12)$
 () = denotes pin numbers

CC34



$V_{CC} = (24)$
 $GND = (12)$
 () = denotes pin numbers

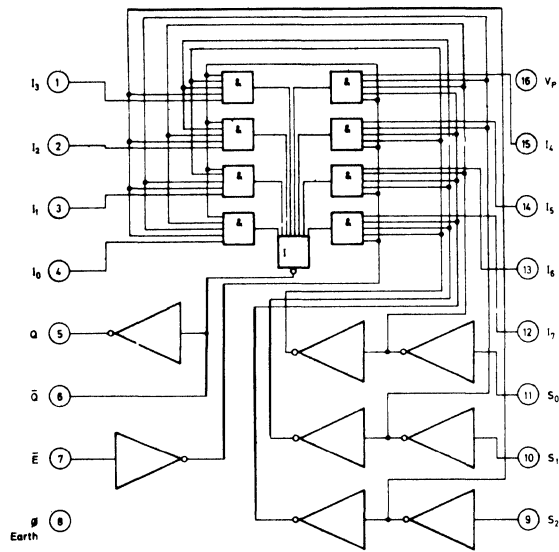
CC35



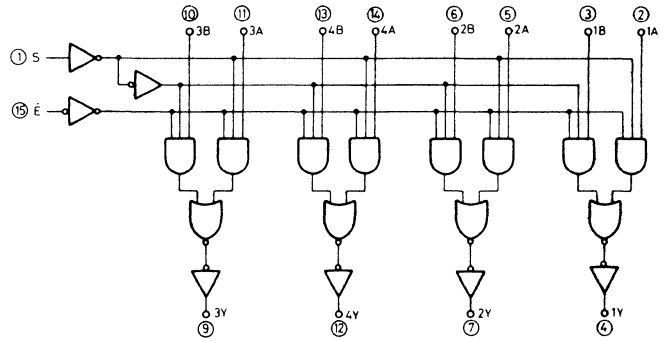
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

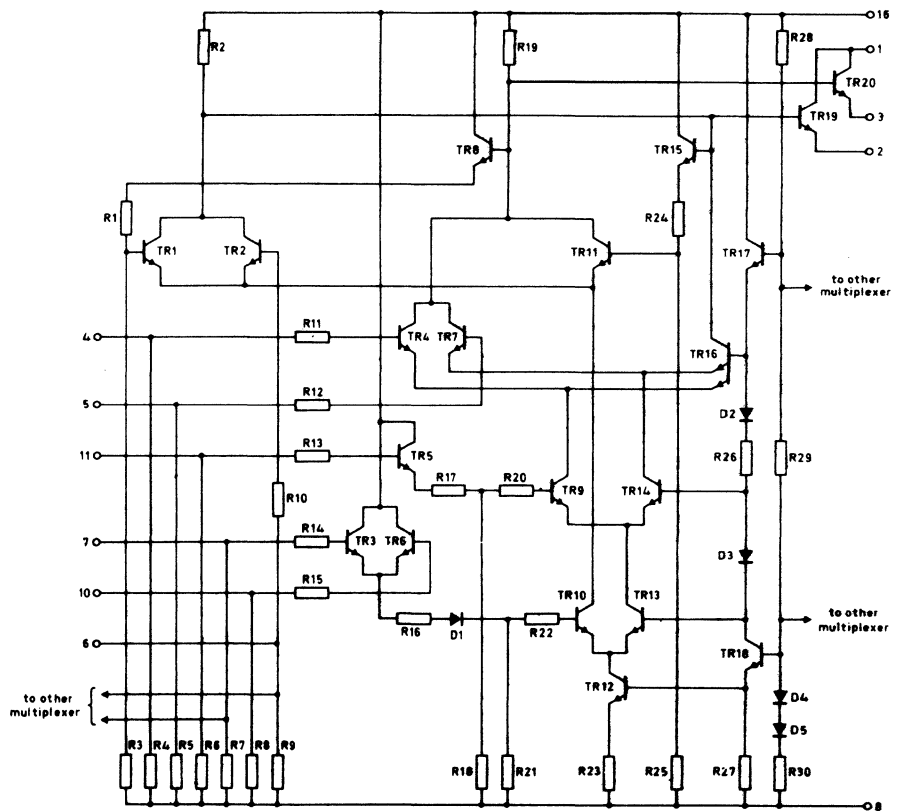
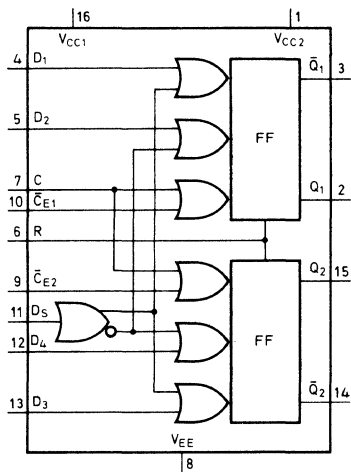
CC36



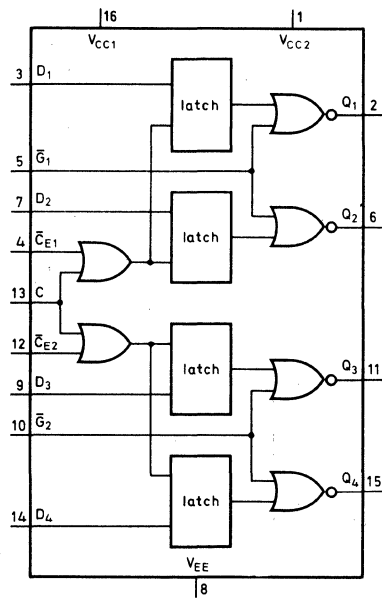
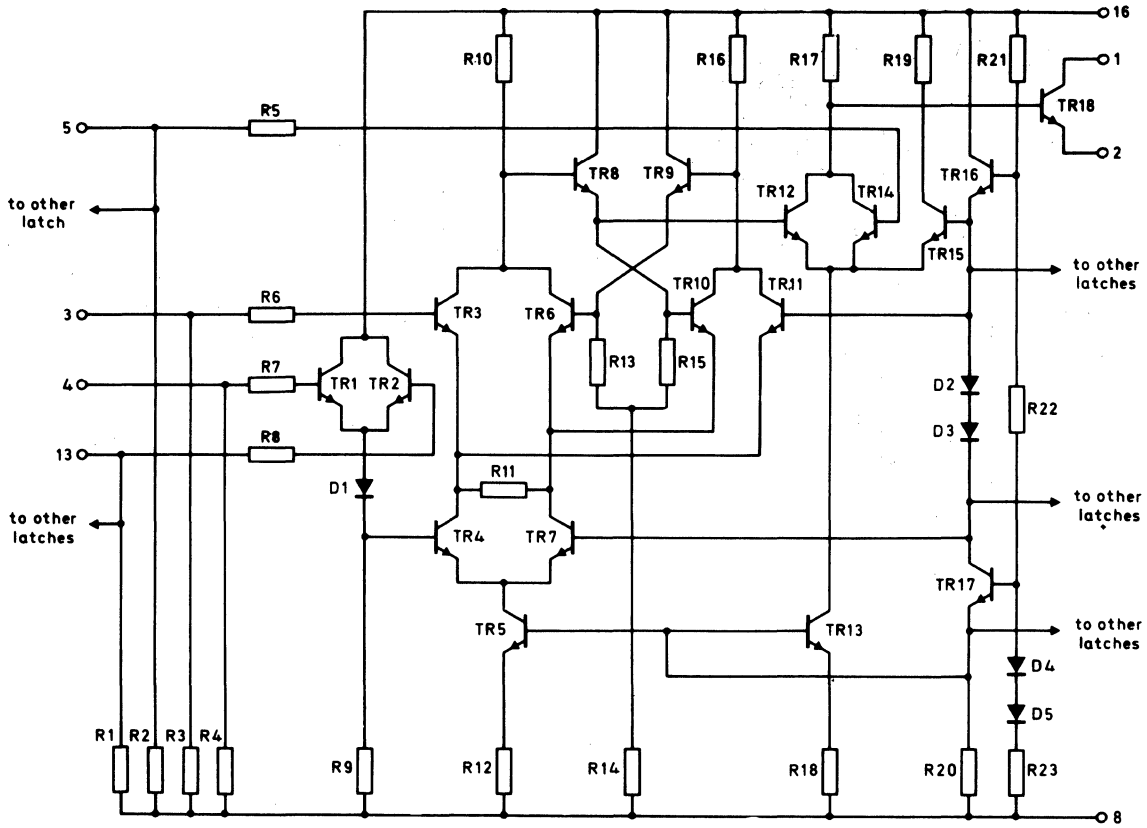
CC37



CC38



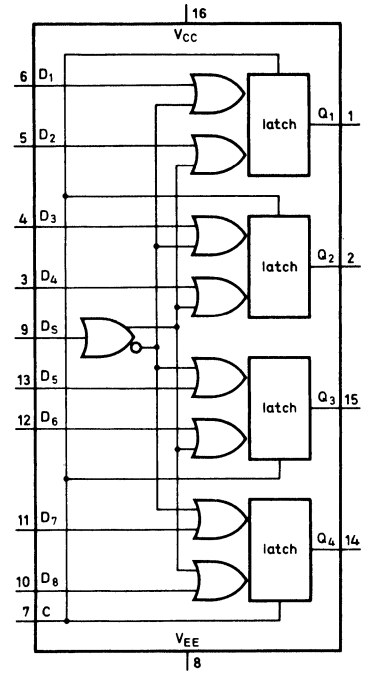
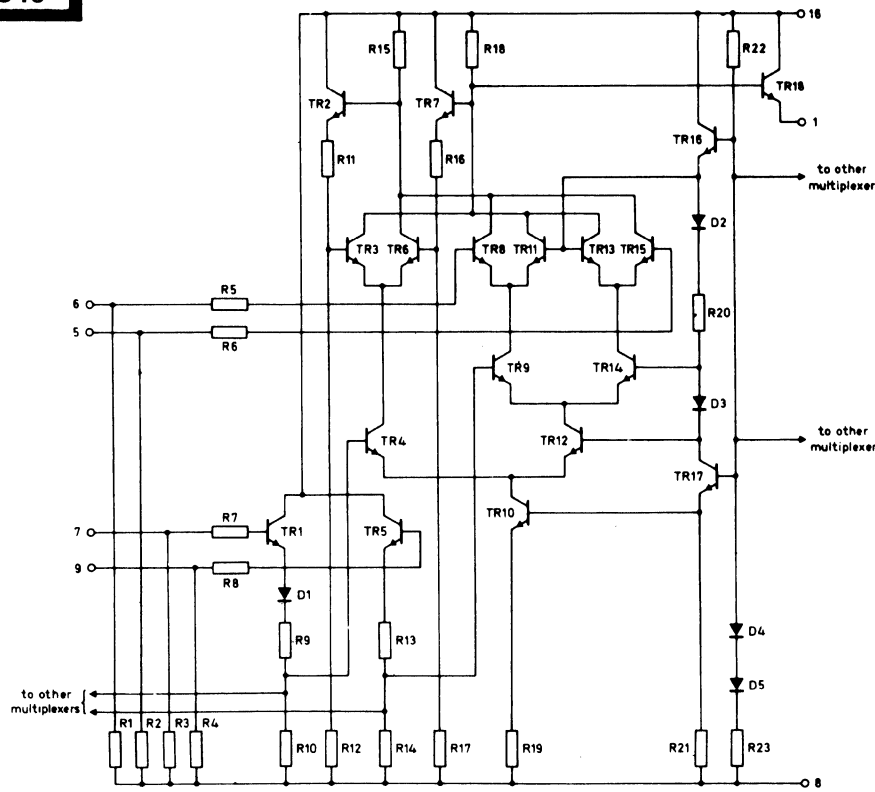
CC39



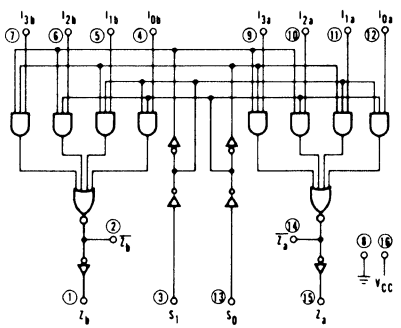
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

CC40



CC41



[Empty box]

[Empty box]

[Empty box]

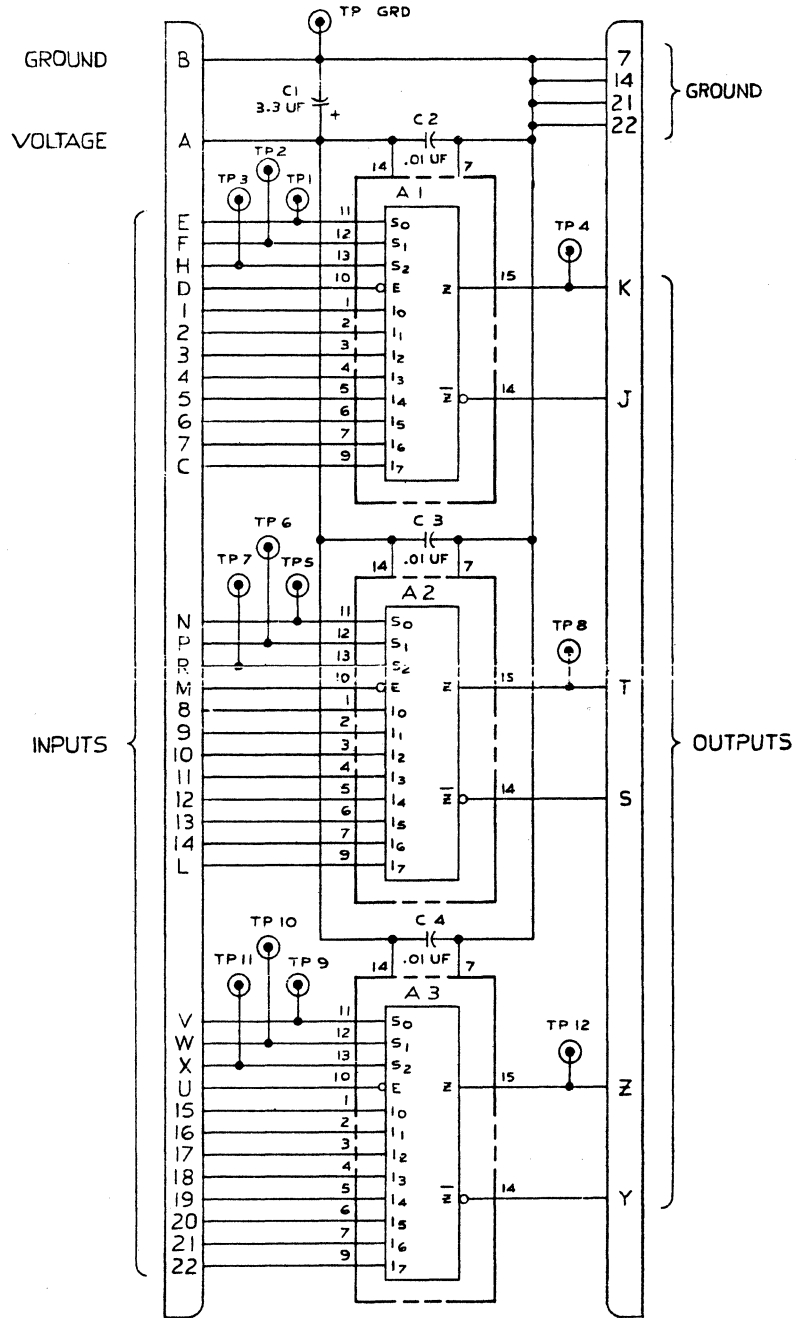
[Empty box]

[Empty box]

27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

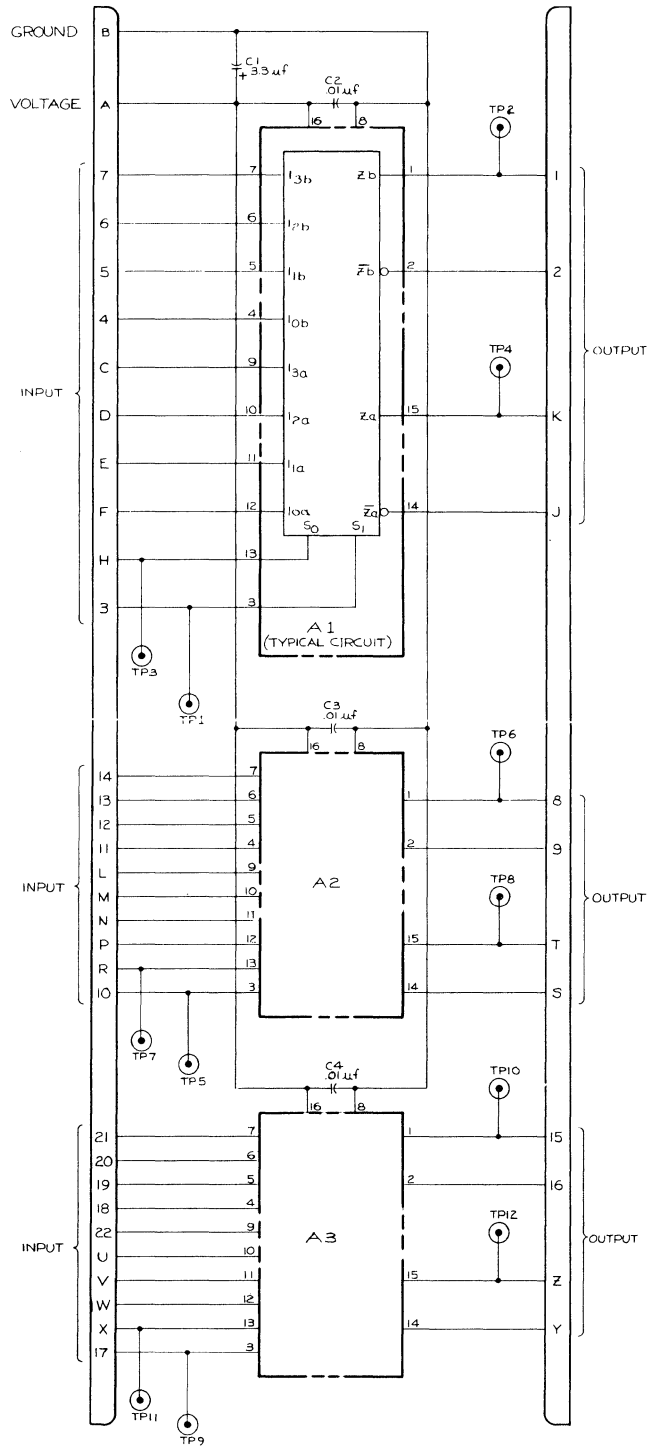
CC42



27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

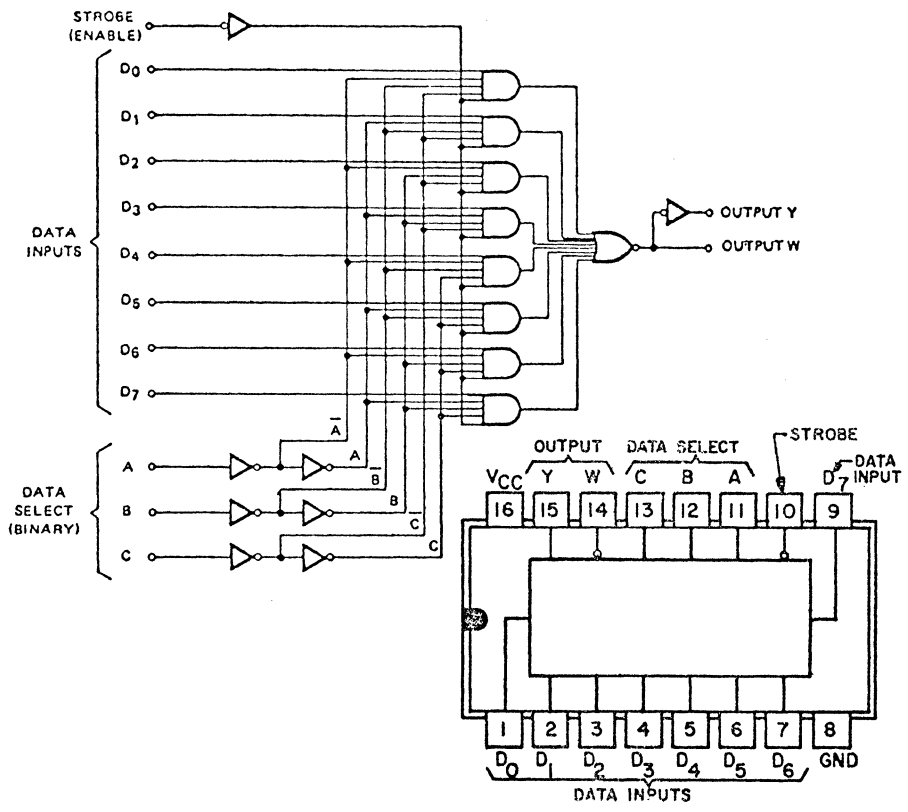
CC43



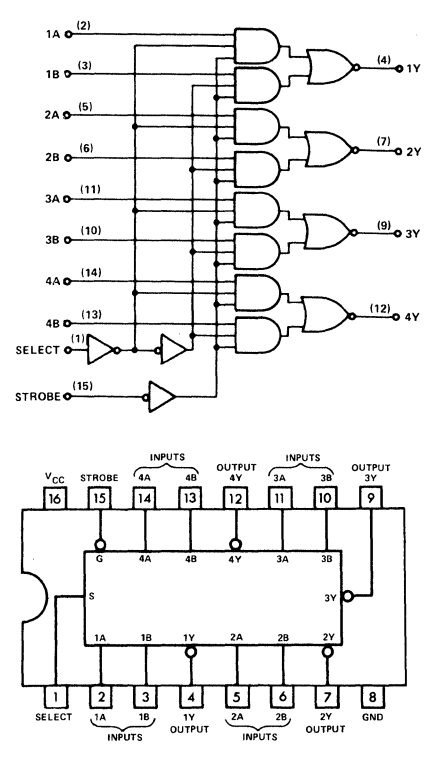
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

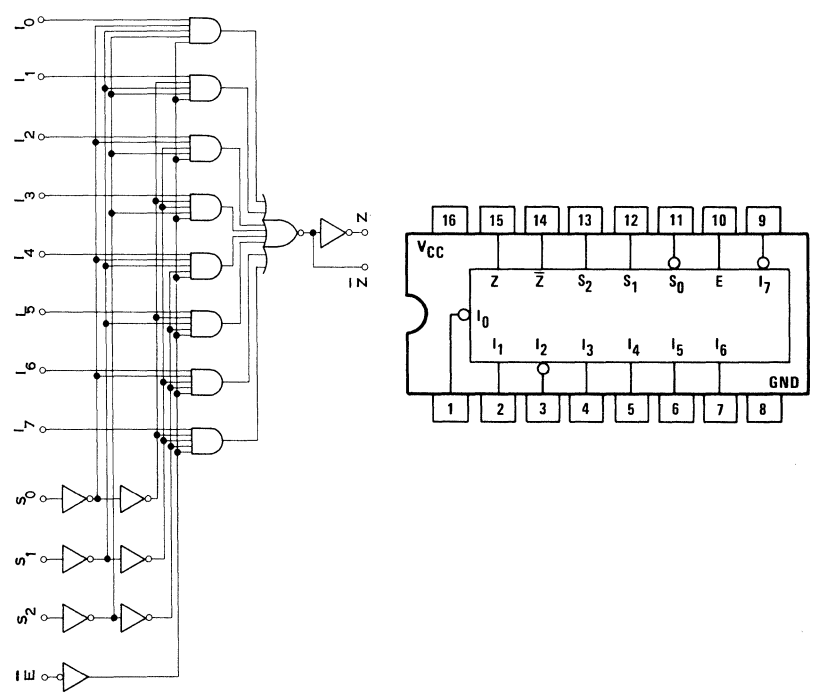
CC44



CC45



CC46

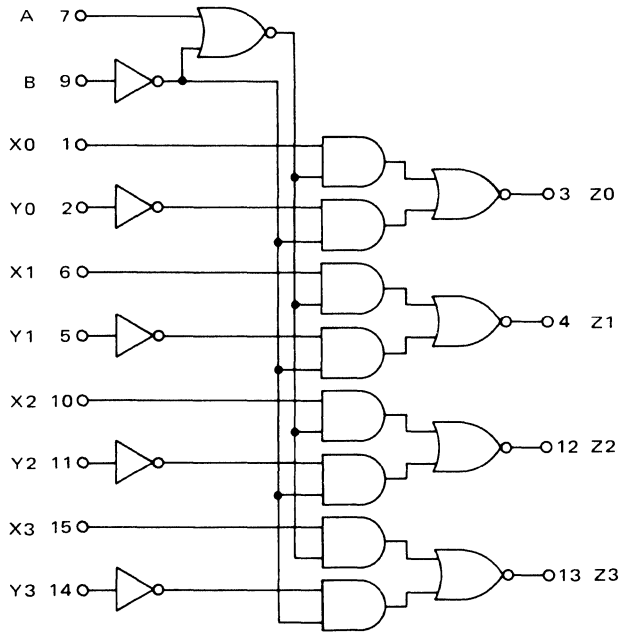


27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

CC48

V_{CC} = Pin 16
Gnd = Pin 8



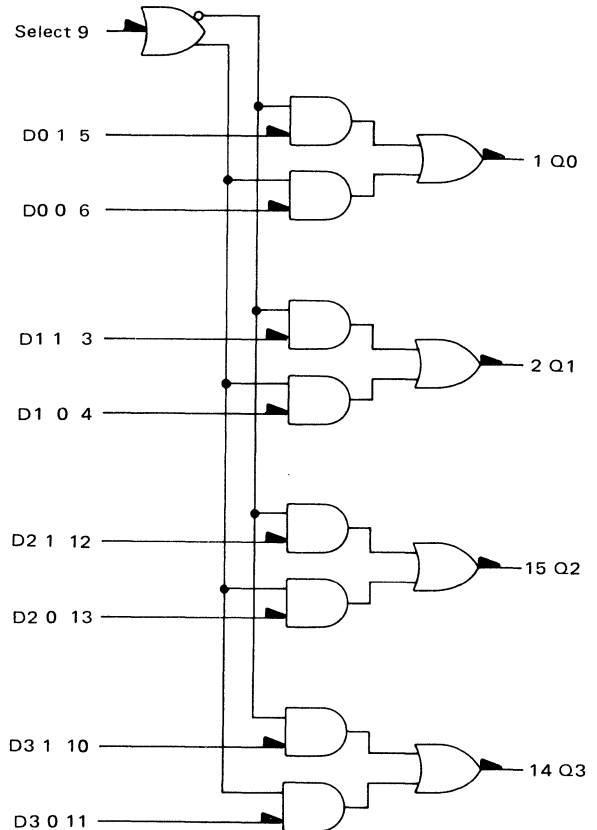
[]

[]

[]

CC49

V_{CC} = Pin 16
V_{EE} = Pin 8

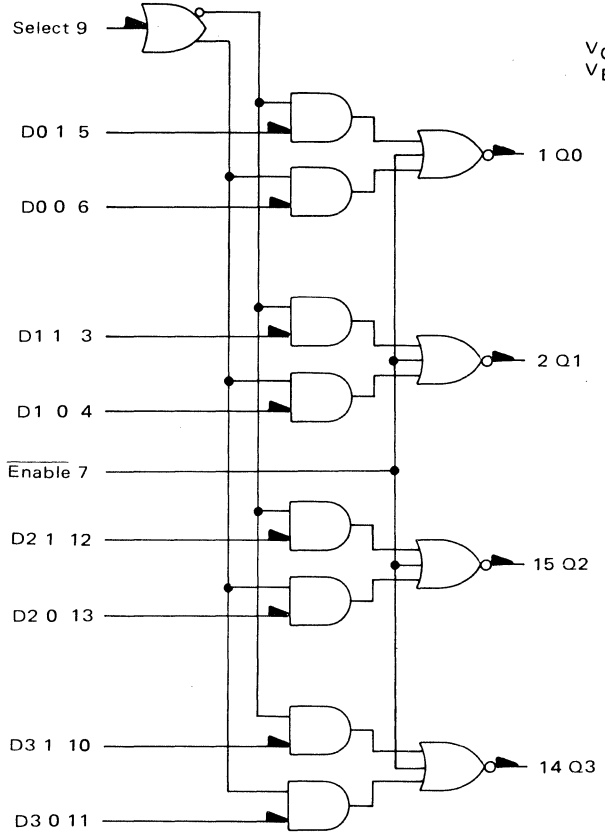


[]

27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

CC50

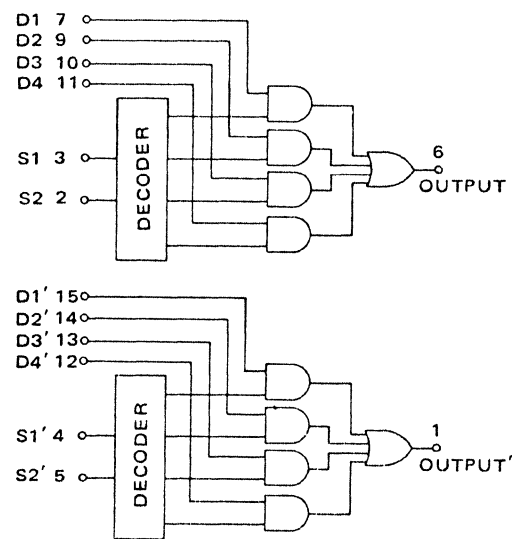


[]

[]

[]

CC51

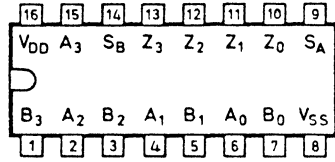
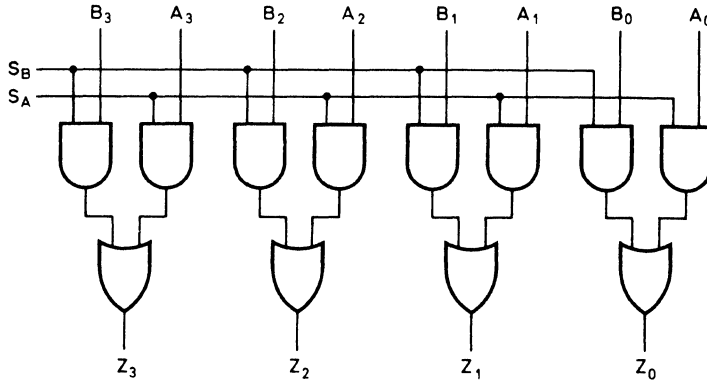


[]

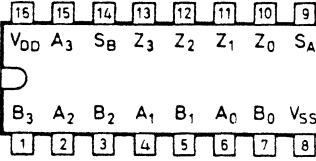
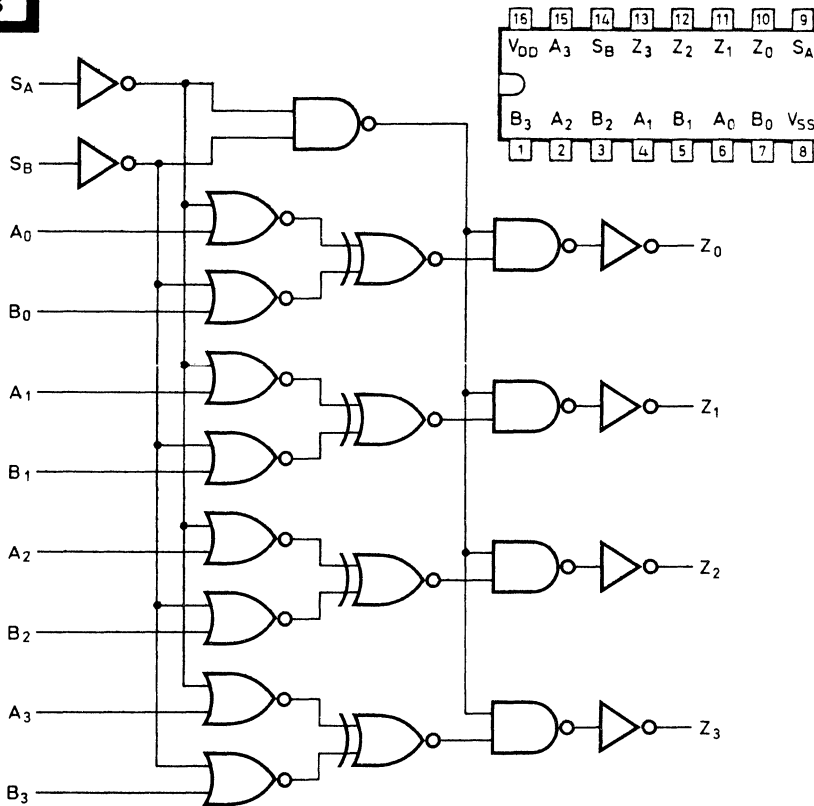
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

CC52



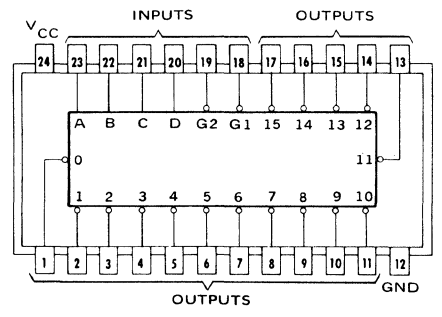
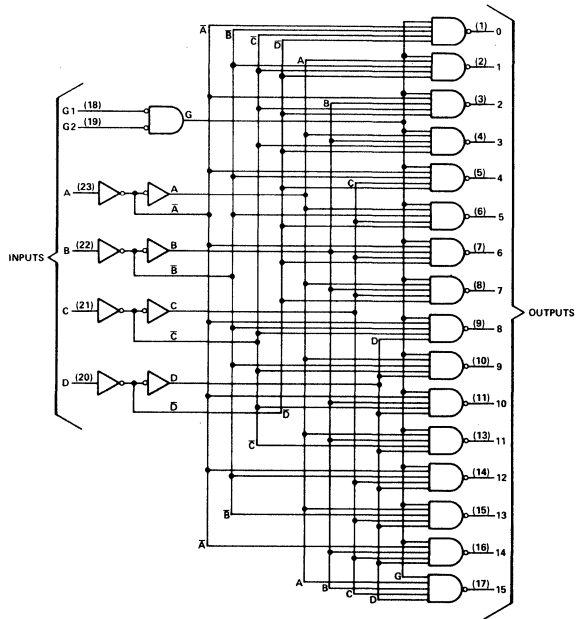
CC53



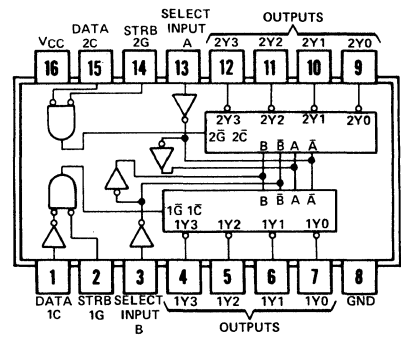
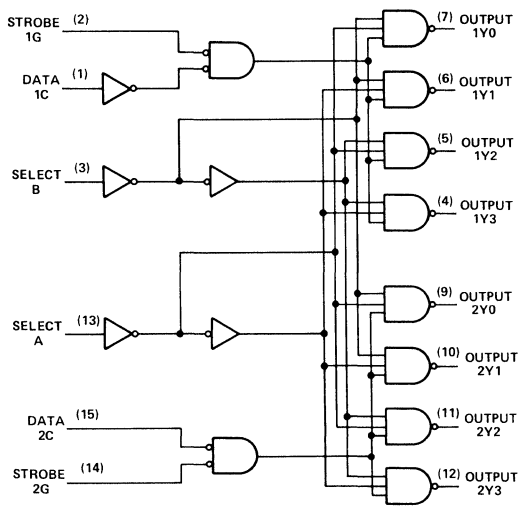
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

CD1



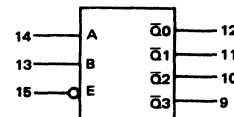
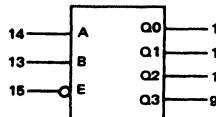
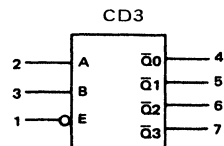
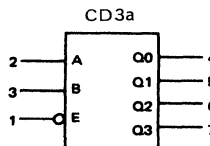
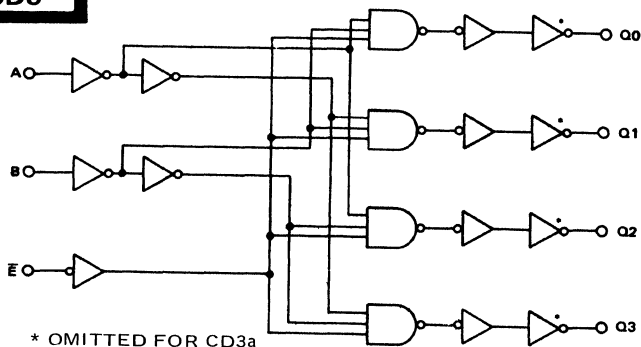
CD2



27. LOGIC/BLOCK DRAWINGS

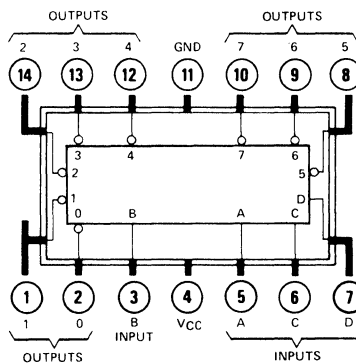
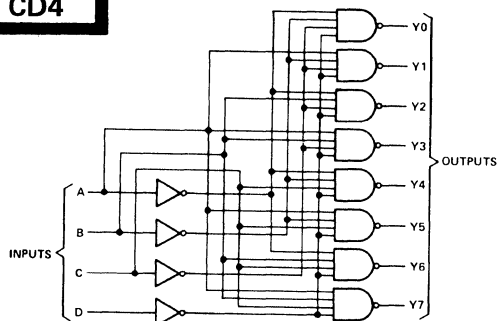
IN DRAWING NUMBER SEQUENCE

CD3

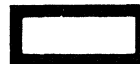
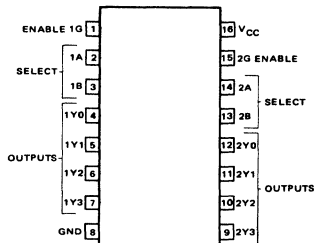
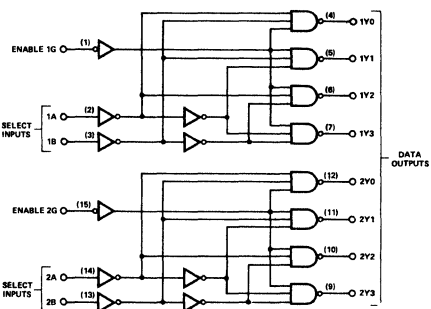


V_{DD} = Pin 16
V_{SS} = Pin 8

CD4



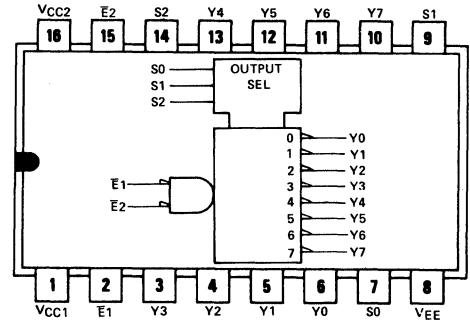
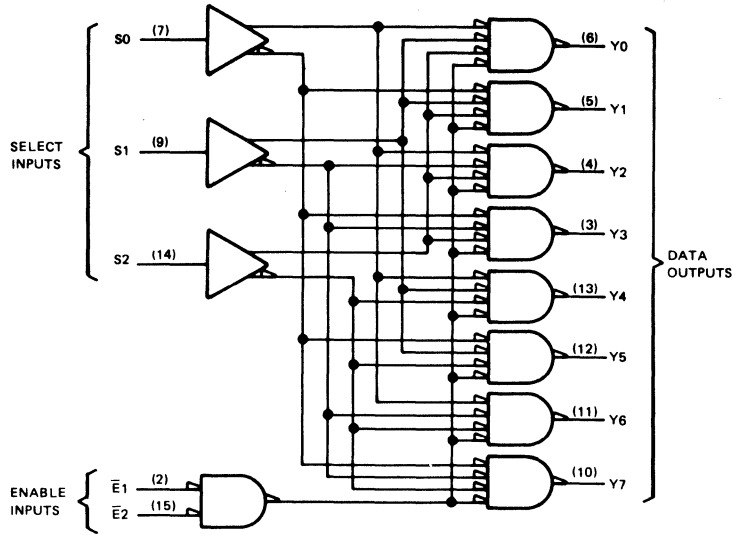
CD6



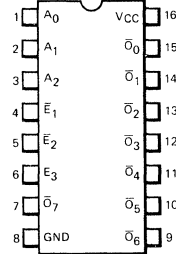
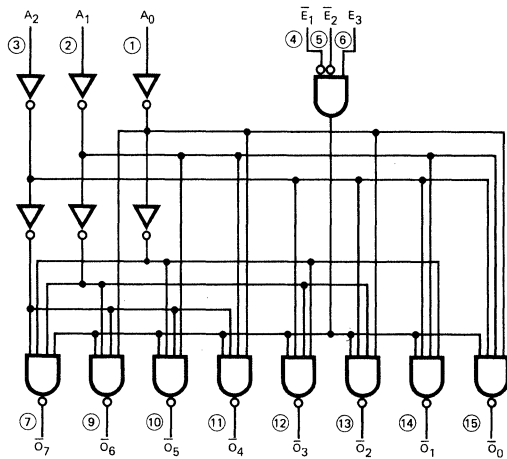
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

CD7



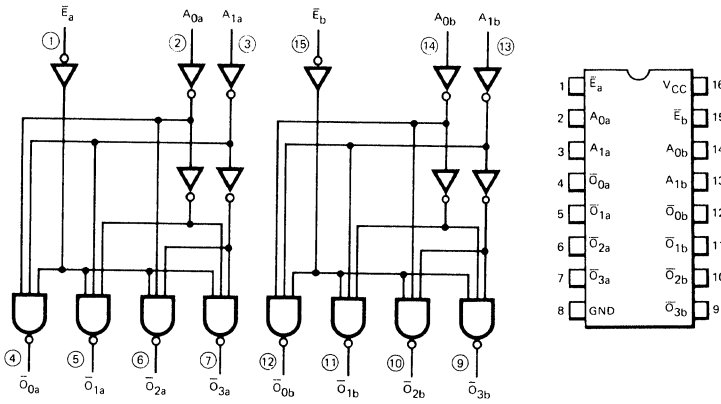
CD8



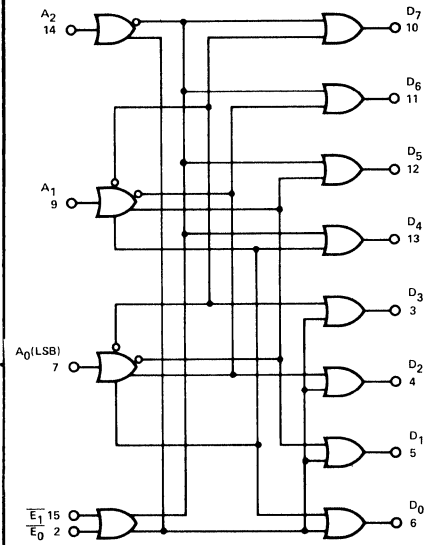
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

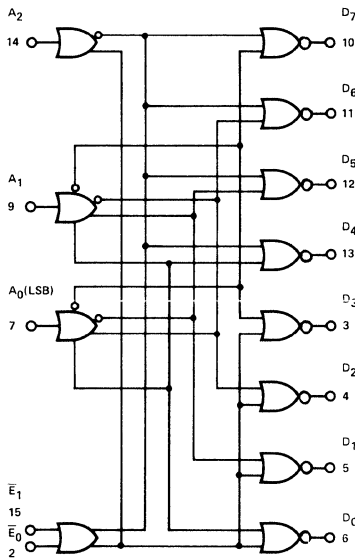
CD9



CD10

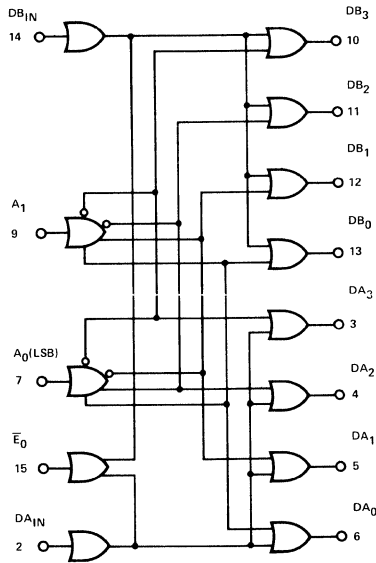


CD11



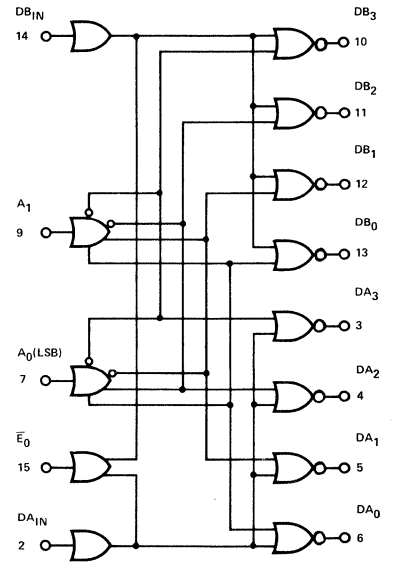
(Internal connections are emitter-dot OR)
V_{CC1} = 1, V_{CC2} = 16, V_{EE} = 8

CD12



(Internal connections are emitter-dot or)
V_{CC1} = 1, V_{CC2} = 16, V_{EE} = 8

CD13

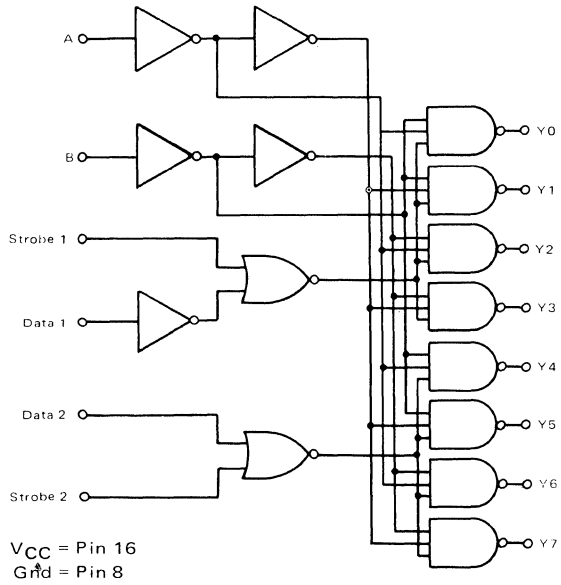


(Internal connections are emitter-dot or)
V_{CC1} = 1, V_{CC2} = 16, V_{EE} = 8

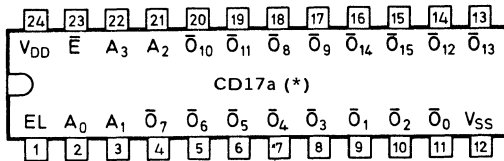
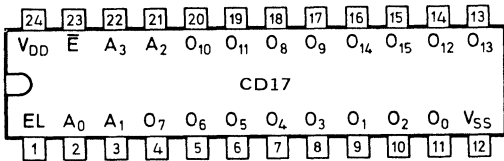
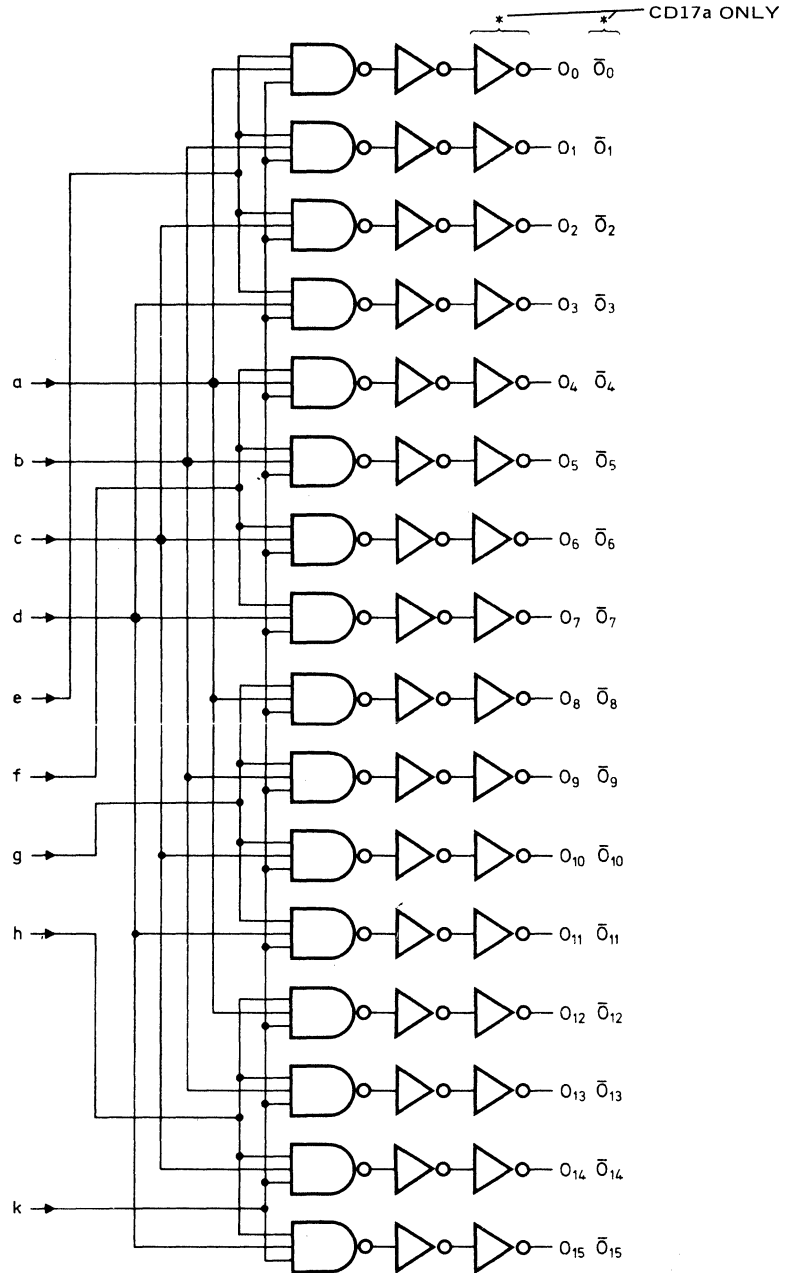
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

CD16



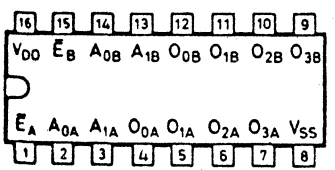
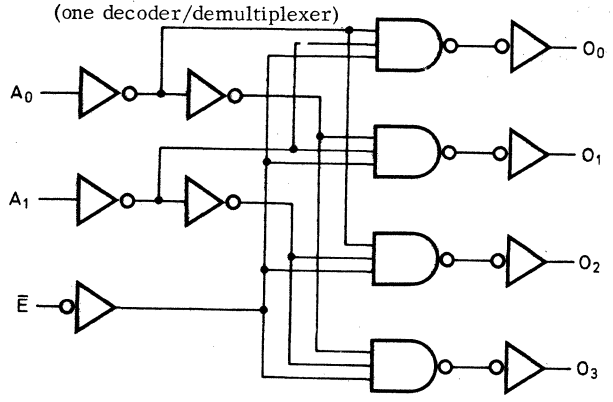
CD17



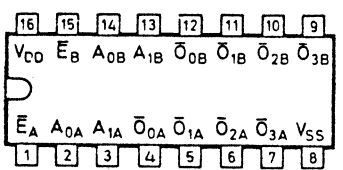
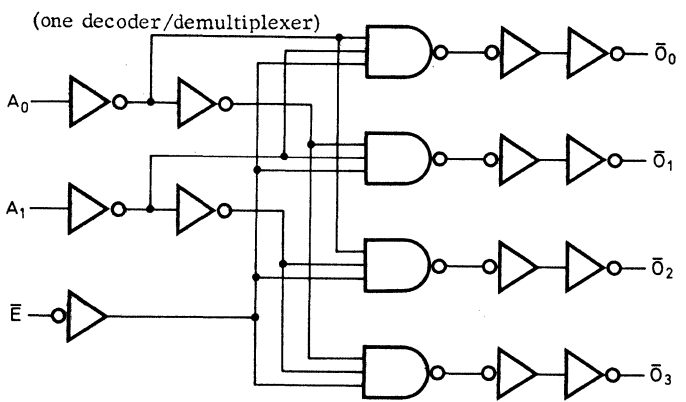
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

CD18



CD19

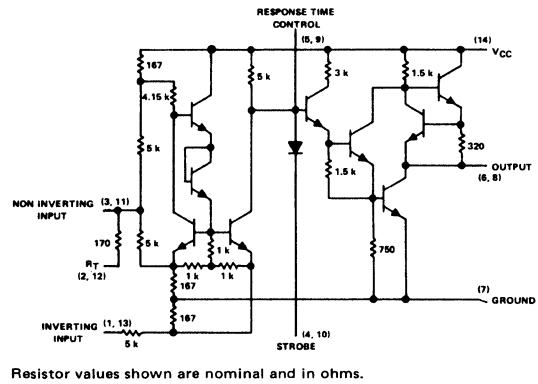
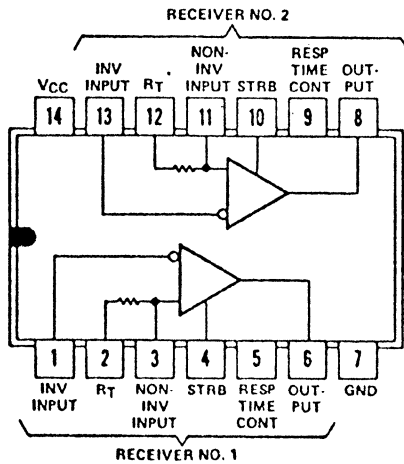
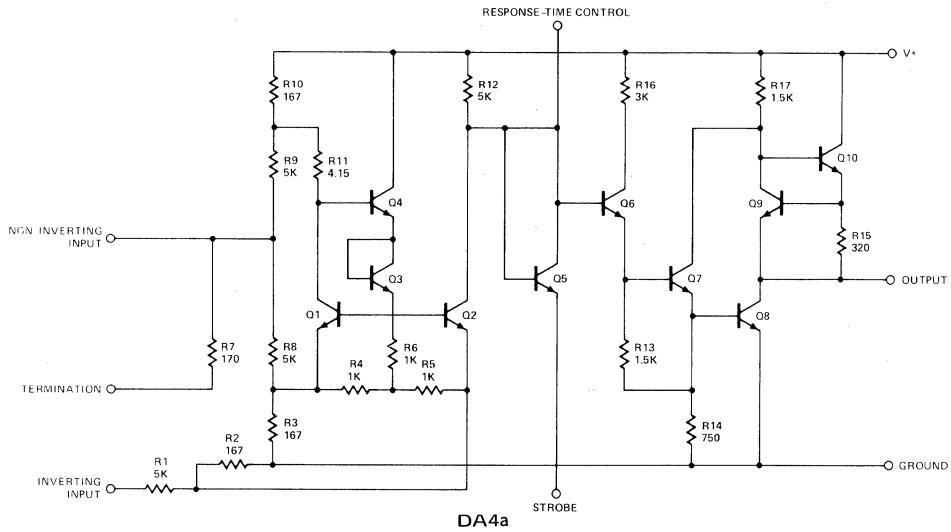


<div style="border: 2px solid black; width: 80px; height: 25px; margin-bottom: 10px;"></div>	<div style="border: 2px solid black; width: 80px; height: 25px; margin-bottom: 10px;"></div>	<div style="border: 2px solid black; width: 80px; height: 25px; margin-bottom: 10px;"></div>
<div style="border: 2px solid black; width: 80px; height: 25px; margin-bottom: 10px;"></div>	<div style="border: 2px solid black; width: 80px; height: 25px; margin-bottom: 10px;"></div>	<div style="border: 2px solid black; width: 80px; height: 25px; margin-bottom: 10px;"></div>

27. LOGIC/BLOCK DRAWINGS

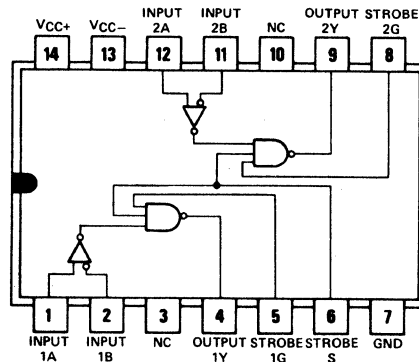
IN DRAWING NUMBER SEQUENCE

DA4



DA5

DA5

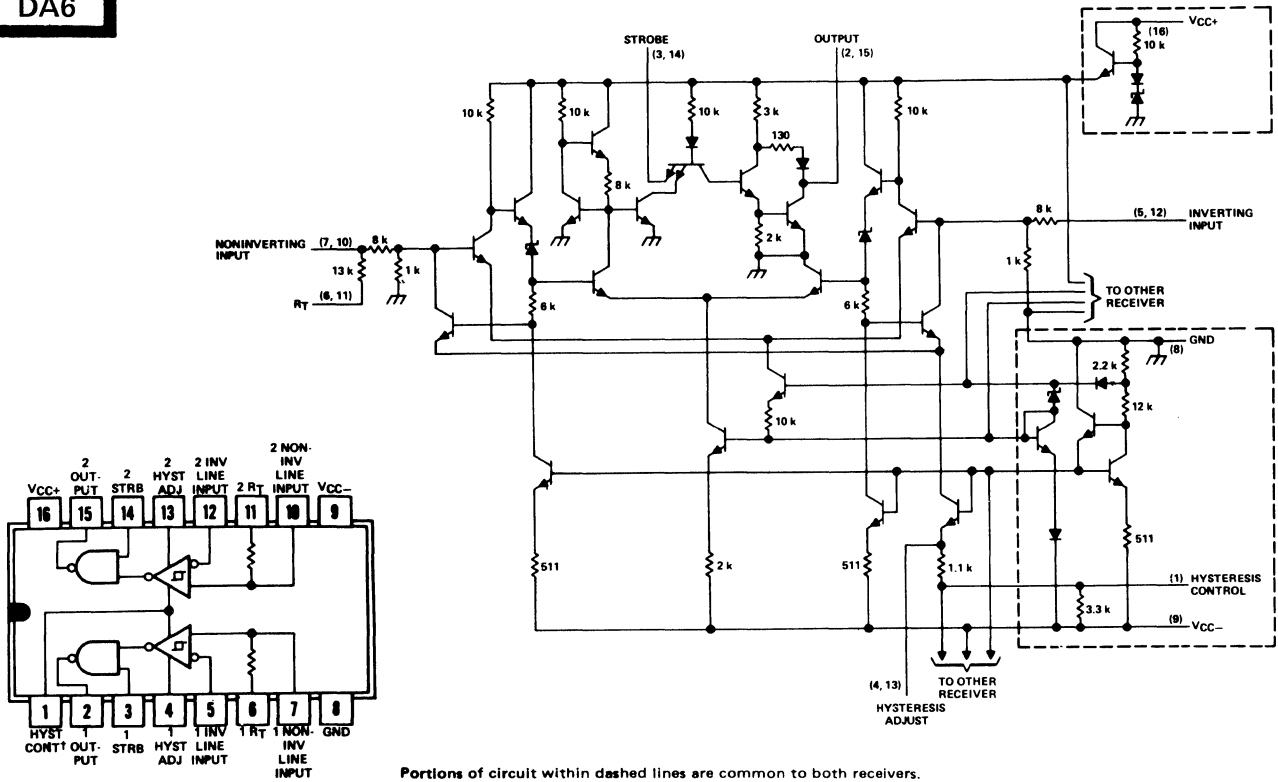


DA5 — HAS STANDARD INPUT TRANSISTORS
 DA5a — HAS INPUT PROTECTION DIODES
 DA5b — HAS SCHOTTKY INPUT TRANSISTORS

27. LOGIC/BLOCK DRAWINGS

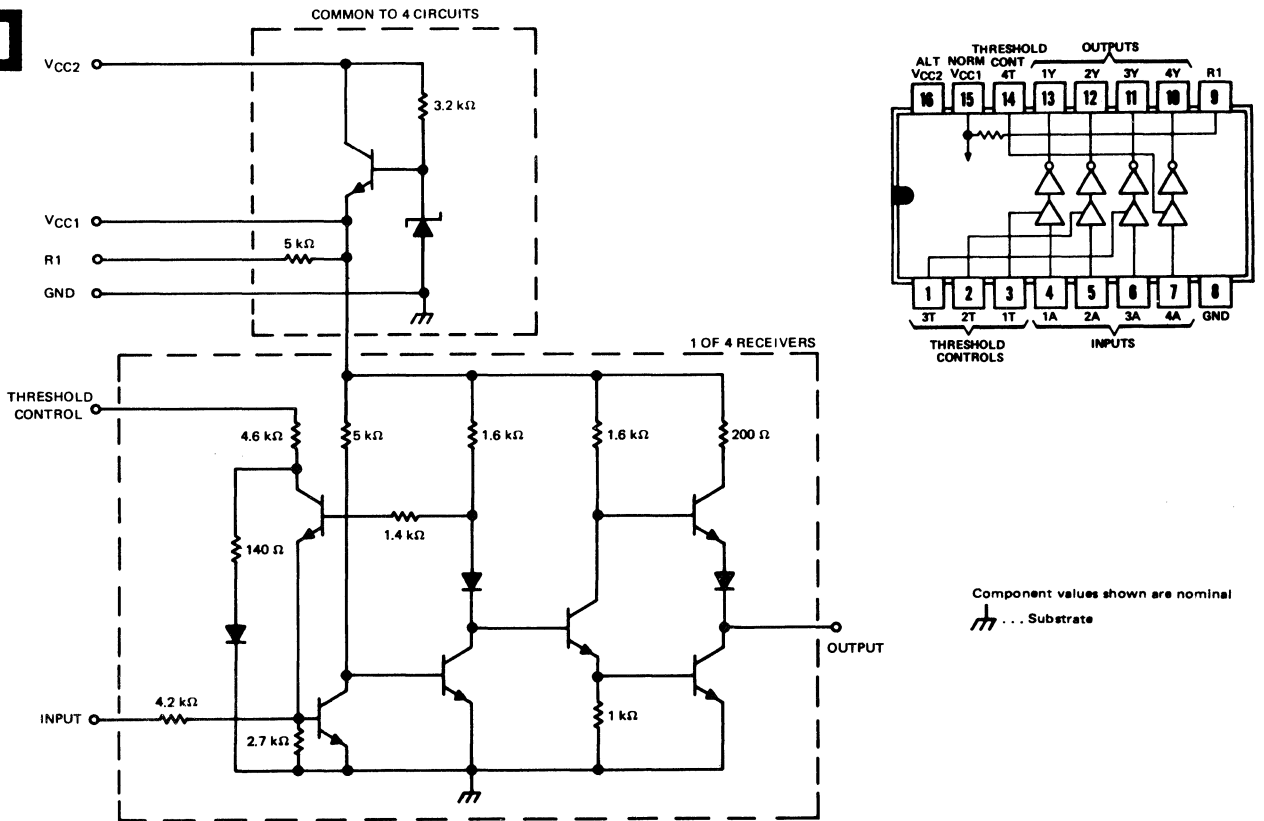
IN DRAWING NUMBER SEQUENCE

DA6



Portions of circuit within dashed lines are common to both receivers. Resistor values shown are nominal and in ohms.

DA7

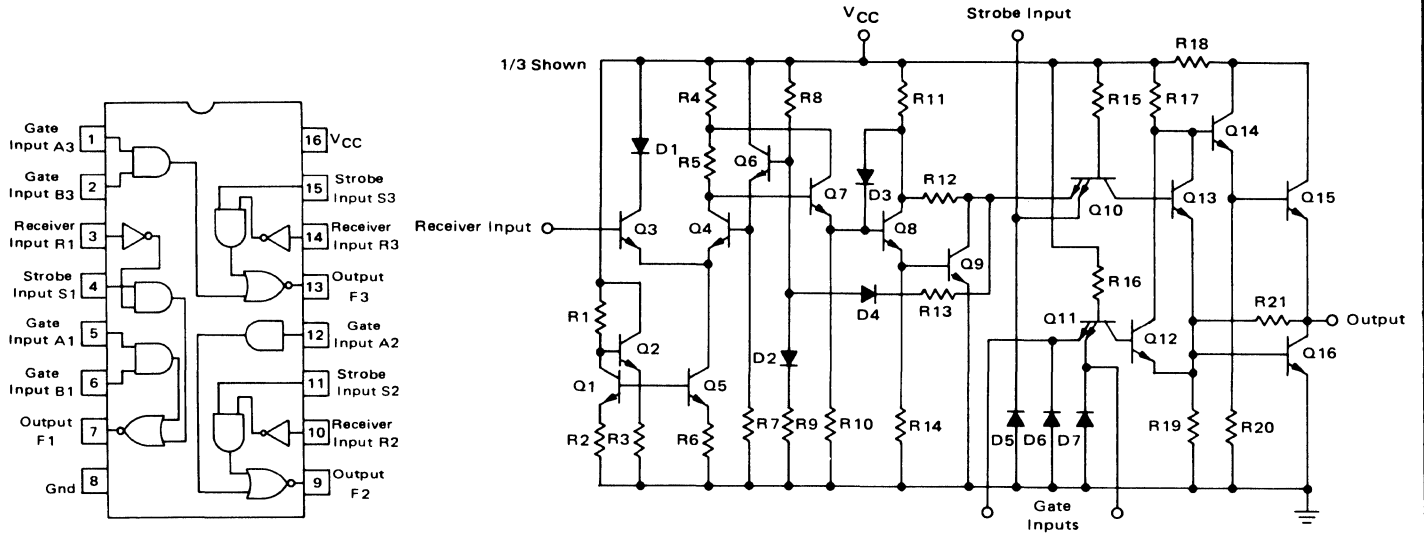


Component values shown are nominal
 ... Substrate

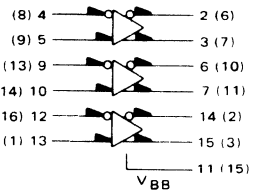
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

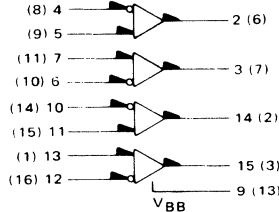
DA10



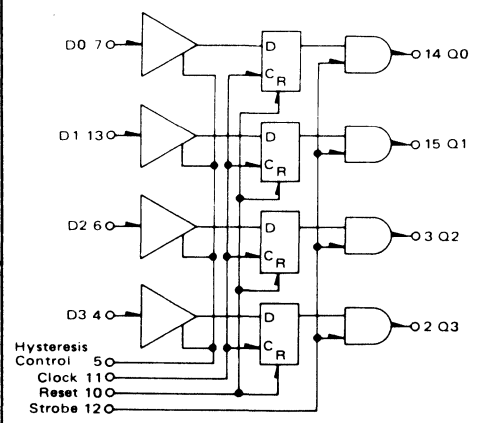
DA13



DA14



DA15



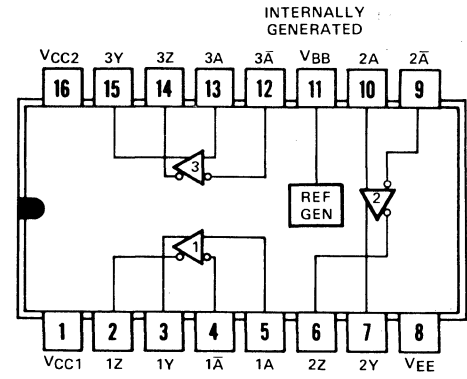
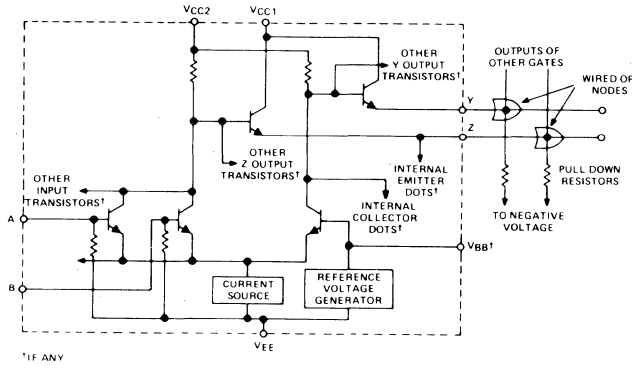
DA16

DA17

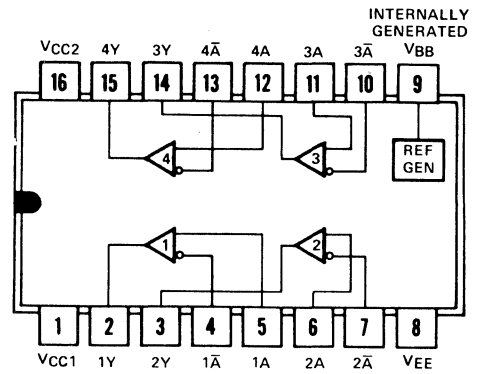
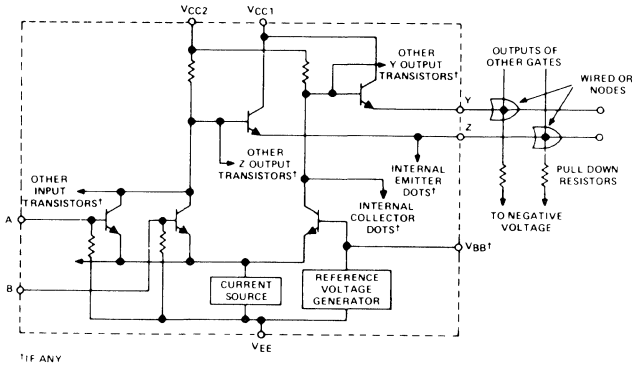
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

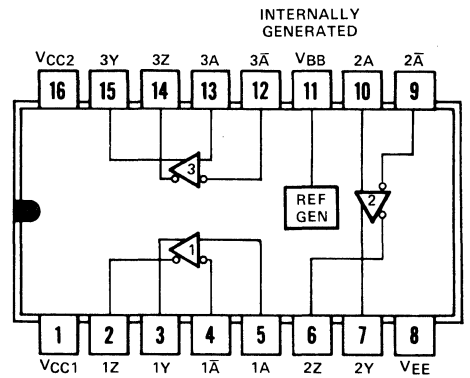
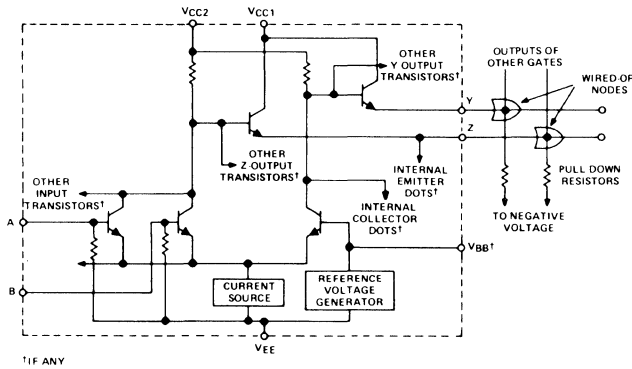
DA16



DA17



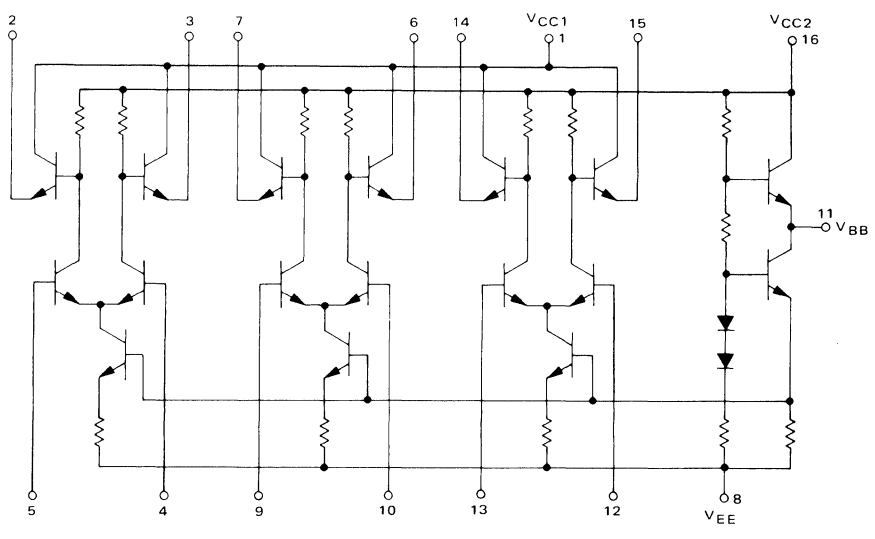
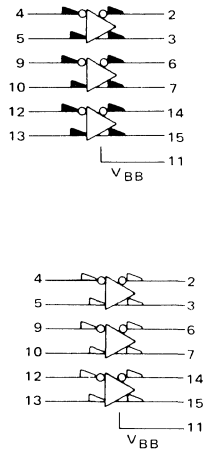
DA18



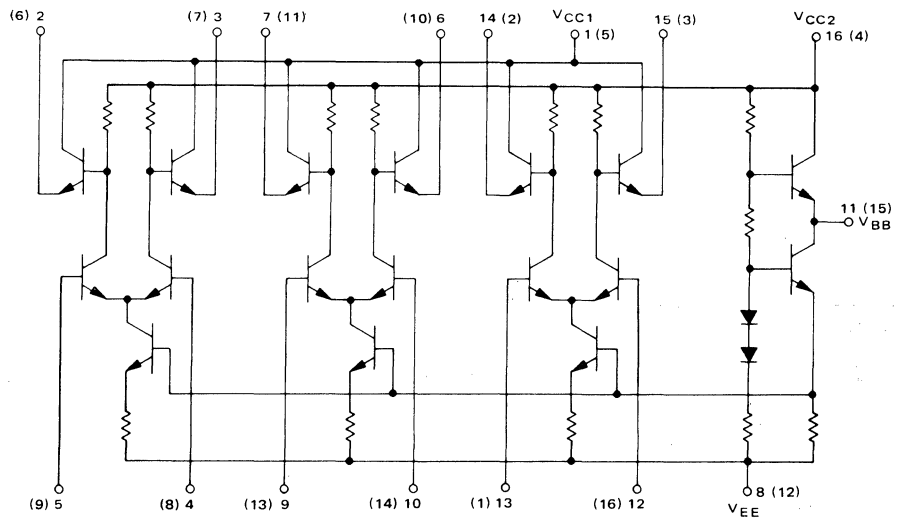
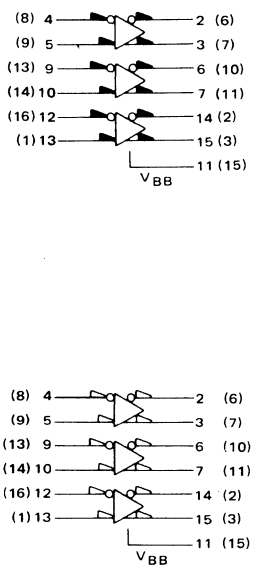
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

DA19



DA20

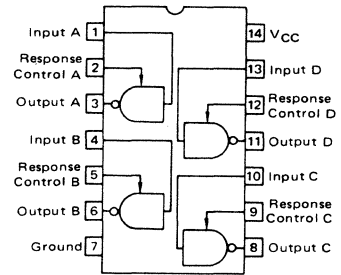
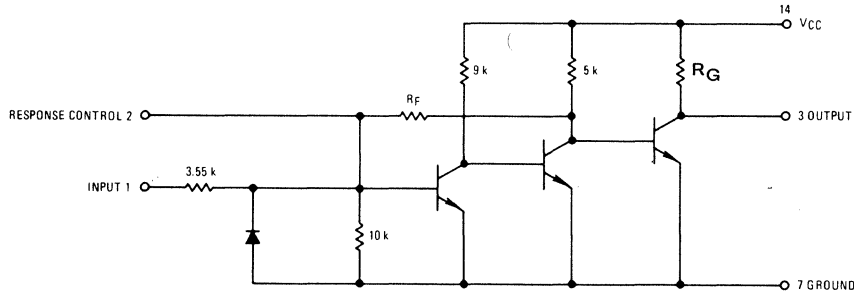


27. LOGIC/BLOCK DRAWINGS

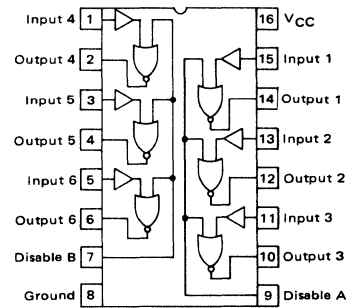
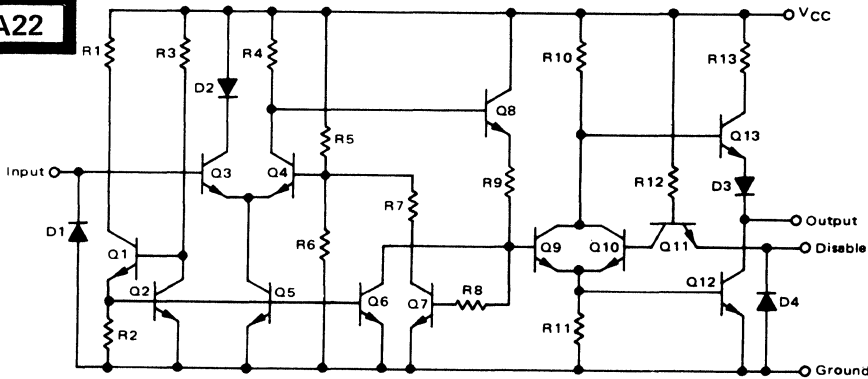
IN DRAWING NUMBER SEQUENCE

DA21

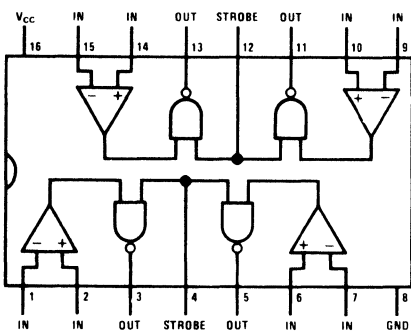
	RF	RG
DA21	RF	1.6k
DA21a	2k	2k
DA21b	10k	2k



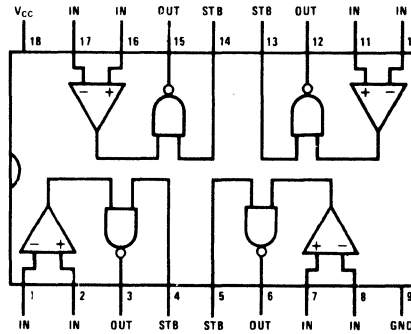
DA22



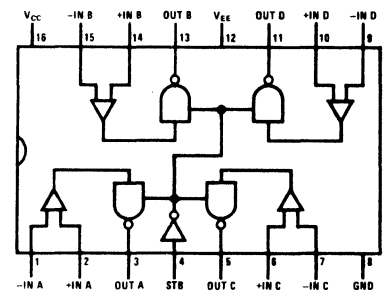
DA23



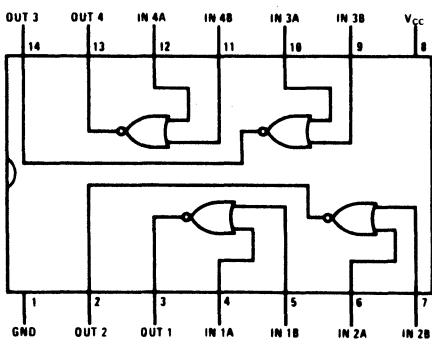
DA24



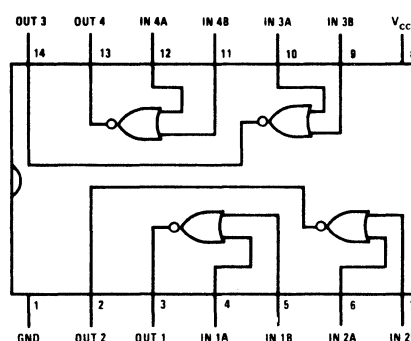
DA25



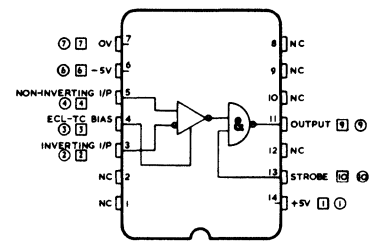
DA26



DA27



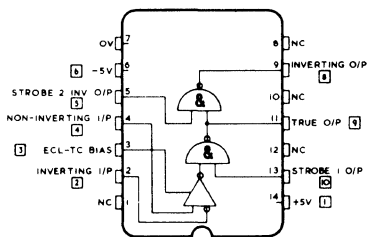
DA28



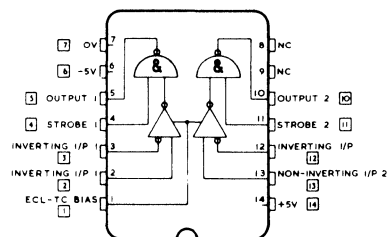
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

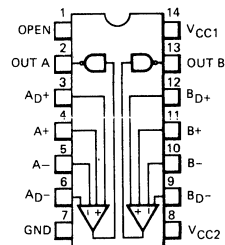
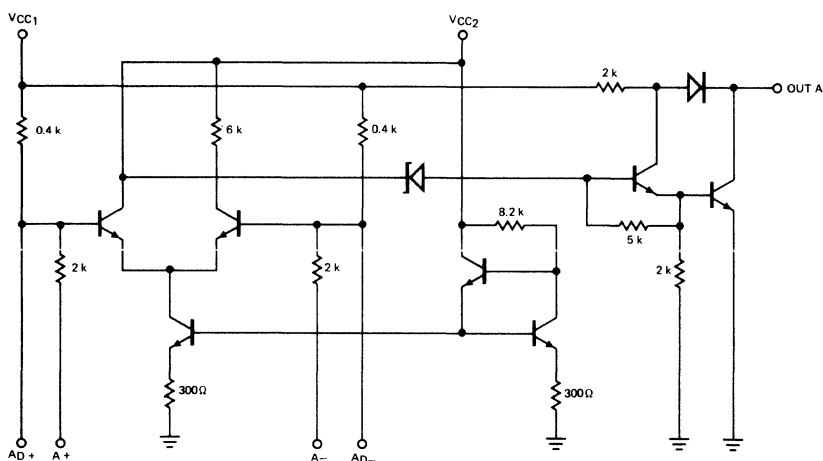
DA29



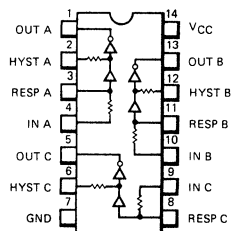
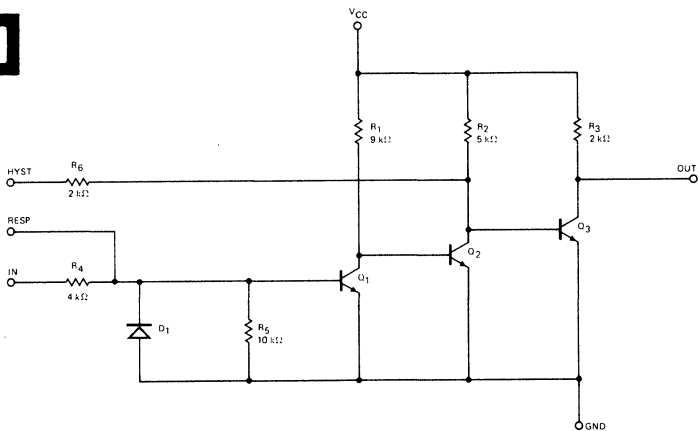
DA30



DA31



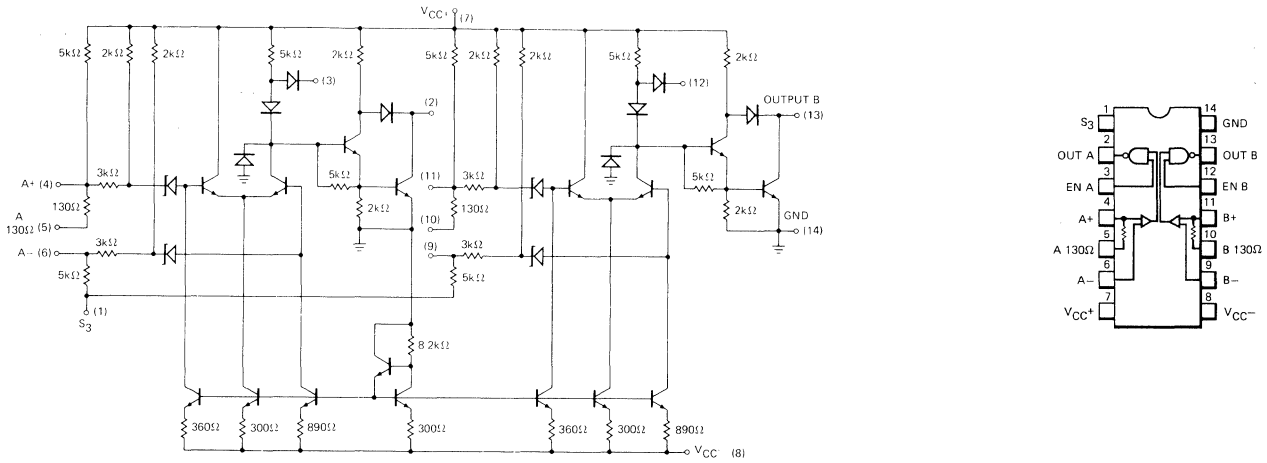
DA32



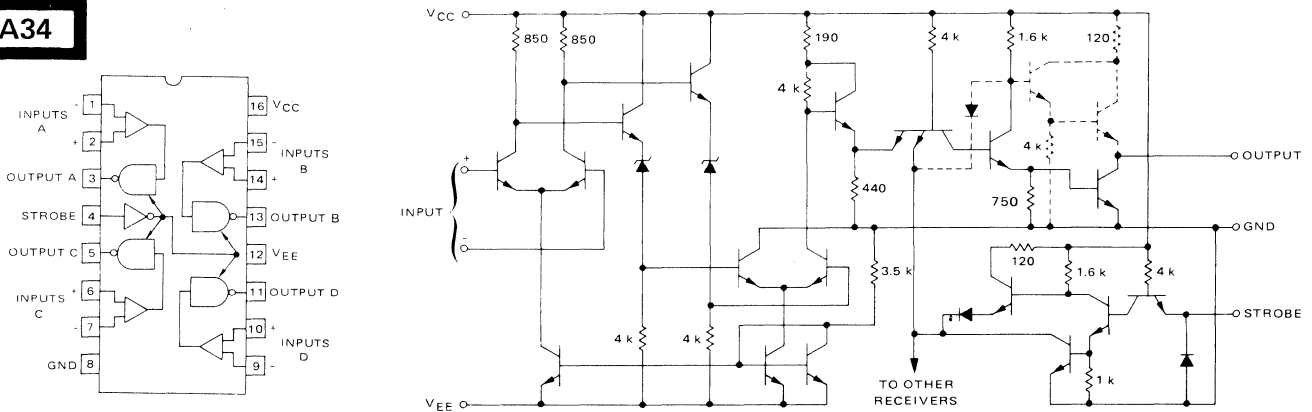
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

DA33



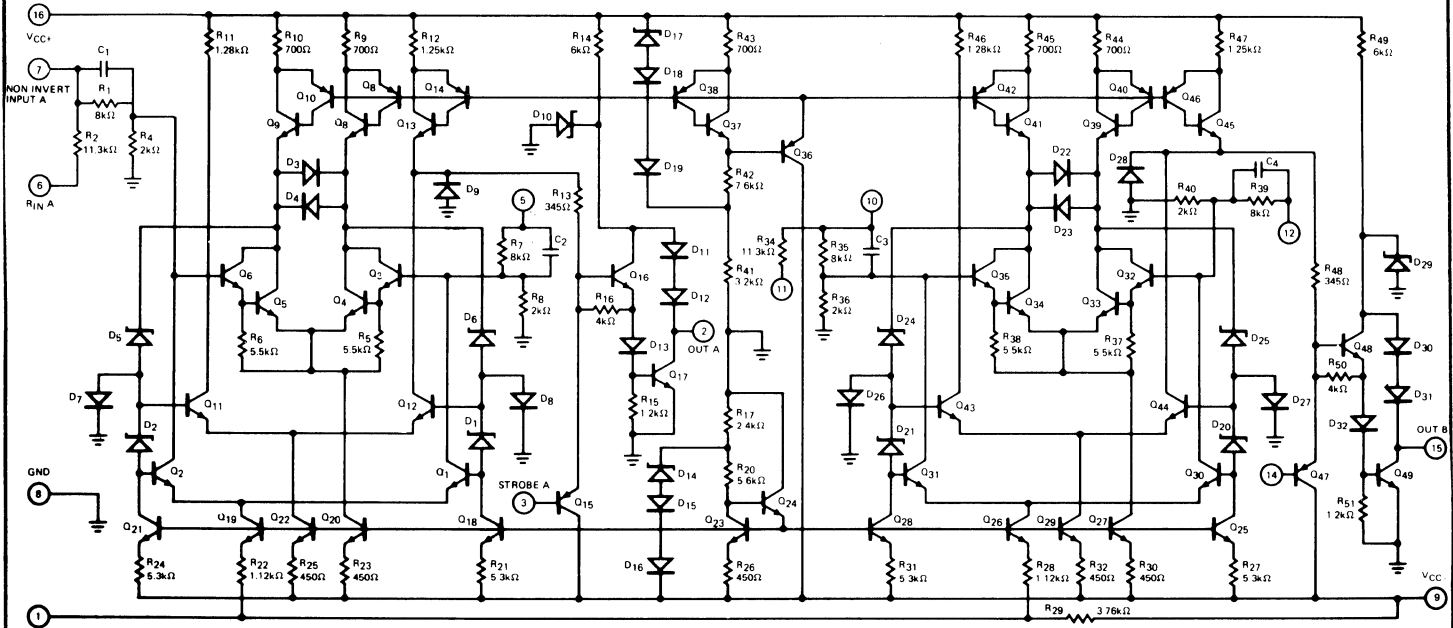
DA34



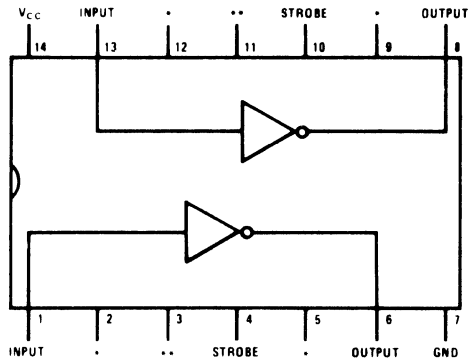
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

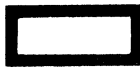
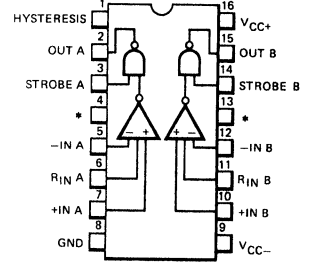
DA35



DA36



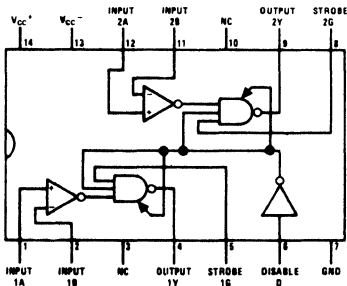
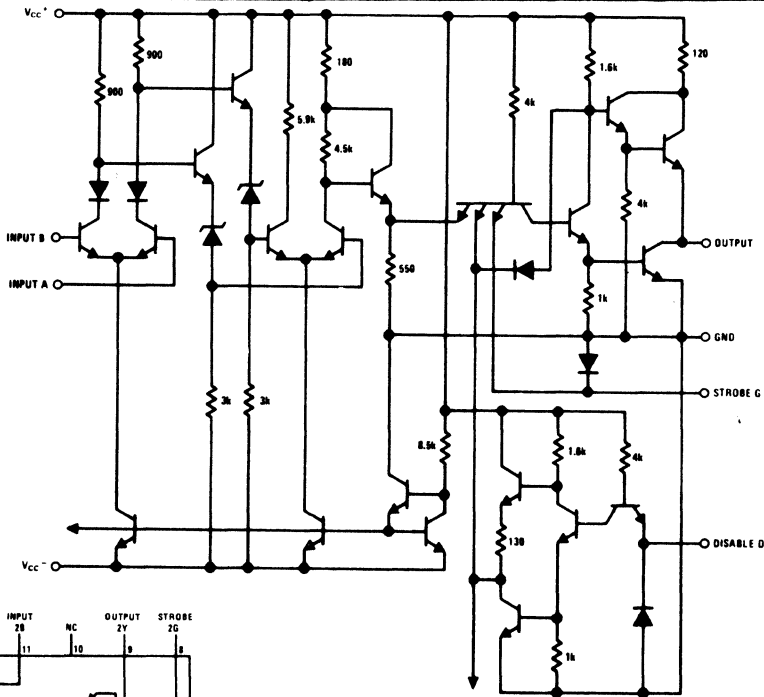
*Make no connection to these pins.
 **For operation requiring "Mask Hold" with the input open connect a 470Ω resistors from each of these pins to ground.



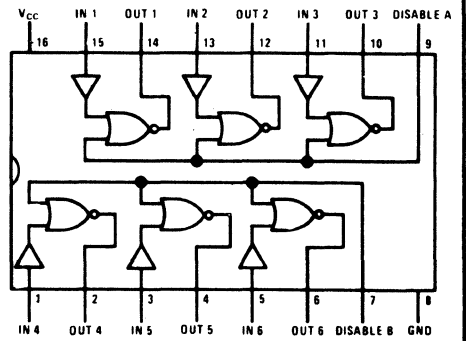
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

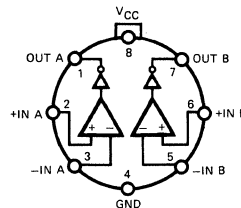
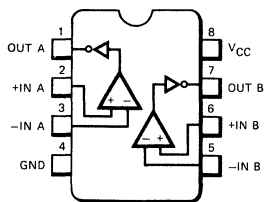
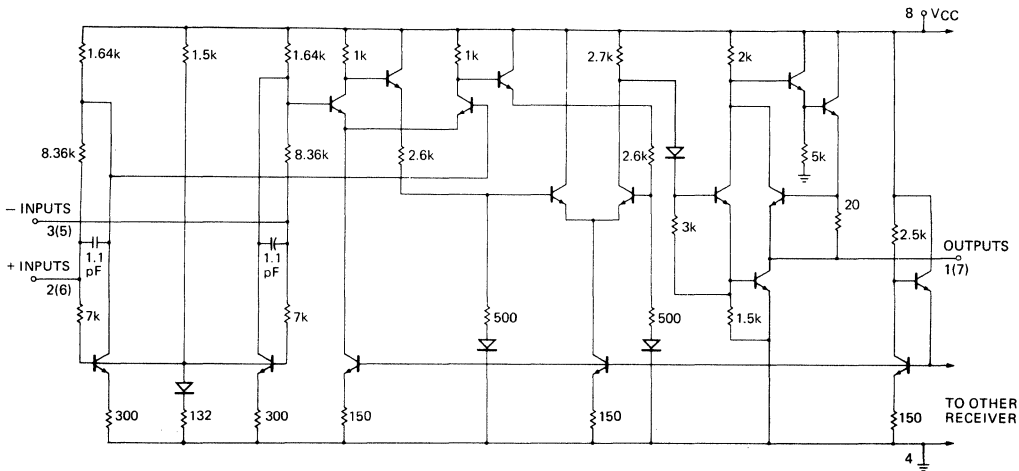
DA37



DA38



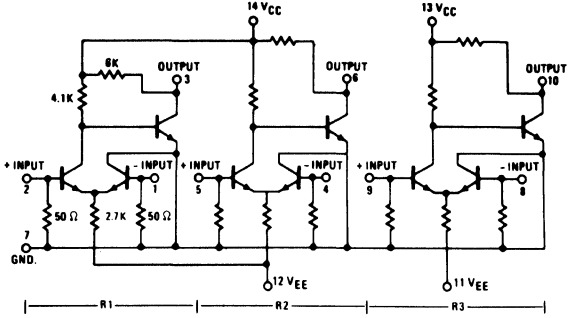
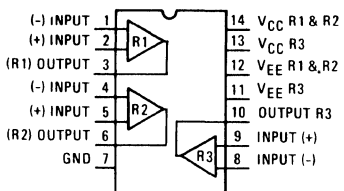
DA39



27. LOGIC/BLOCK DRAWINGS

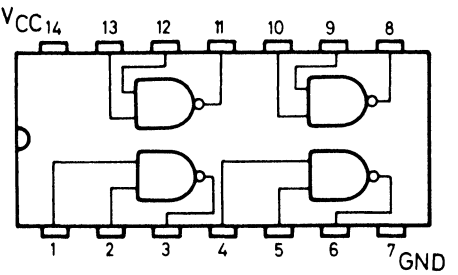
IN DRAWING NUMBER SEQUENCE

DA40

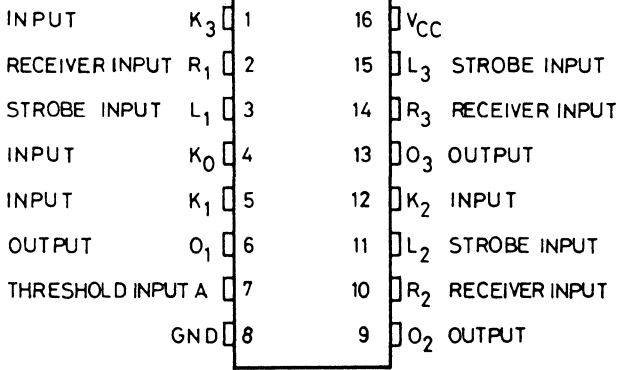
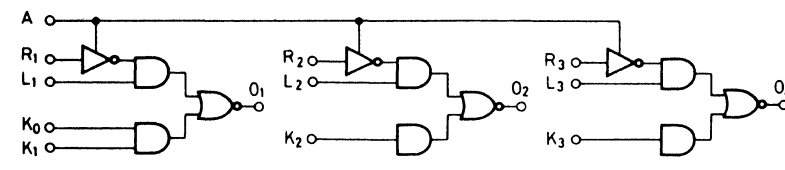


- NOTES:
1. DA40 IS AS SHOWN.
 2. DA40a DOES NOT HAVE 6K OUTPUT PULL-UP RESISTORS.
 3. DA40b DOES NOT HAVE 50Ω INPUT TERMINATION RESISTORS.
 4. RESISTOR VALUES ARE NOMINAL.

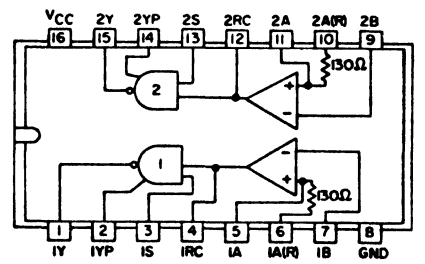
DA41



DA42



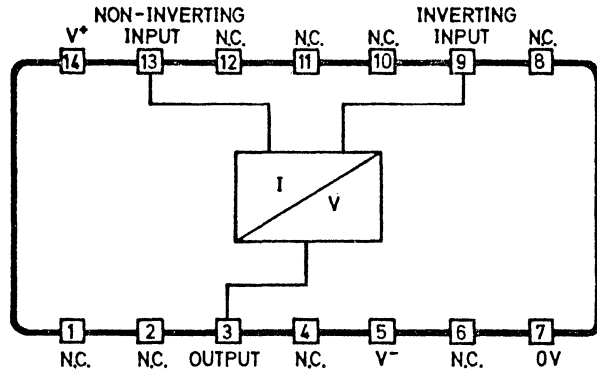
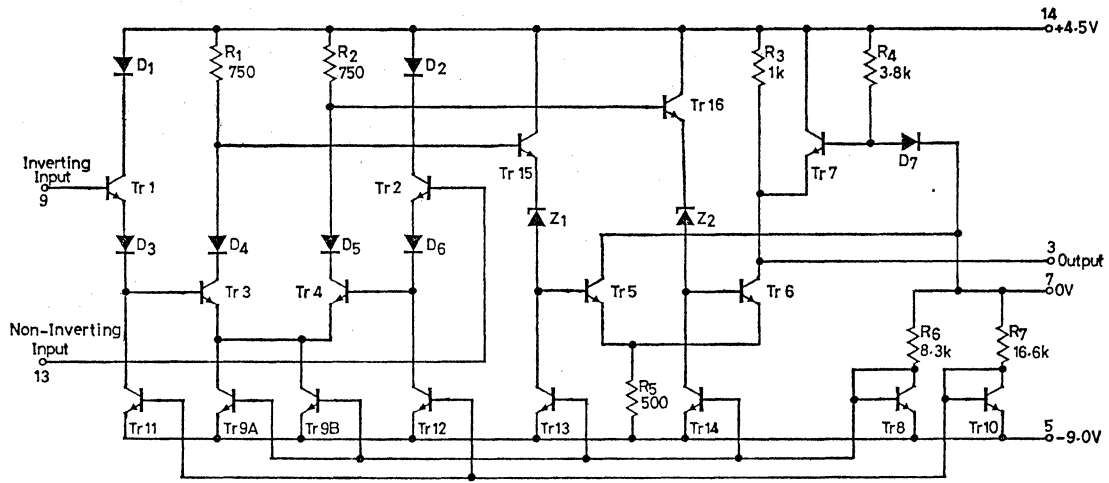
DA43



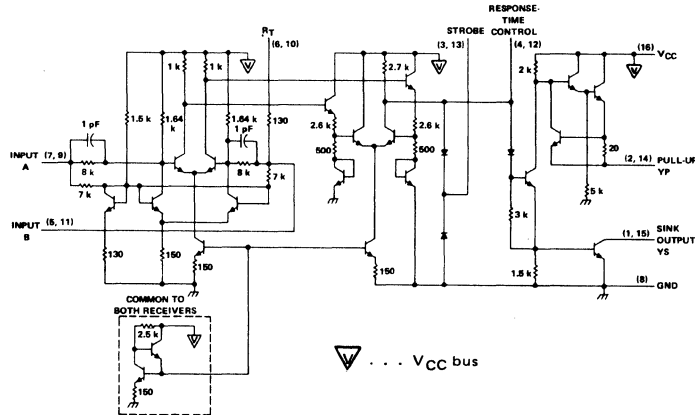
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

DA44

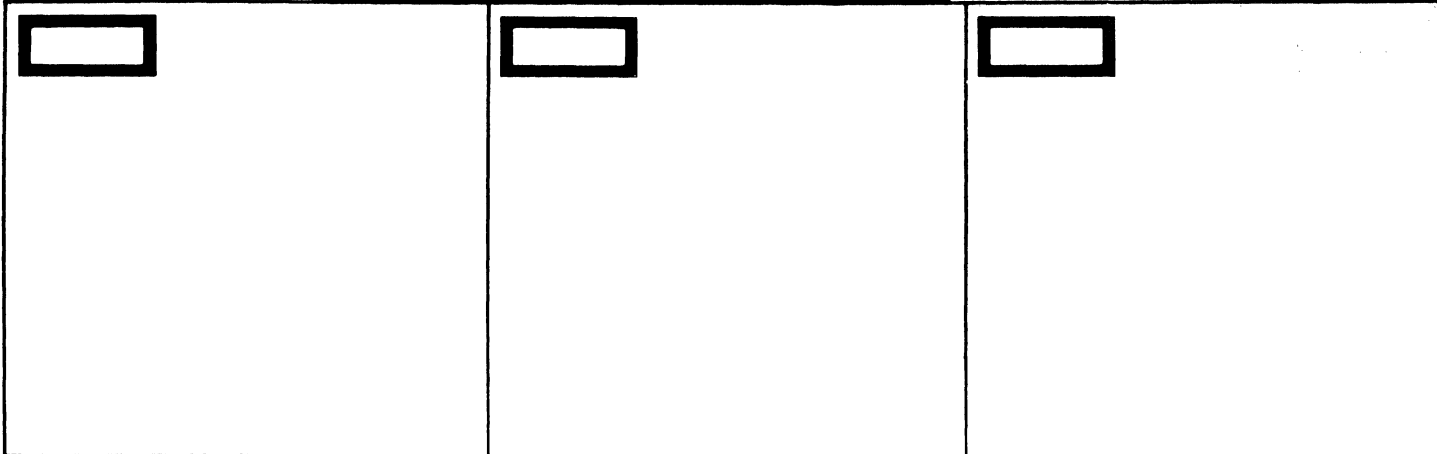


DA45

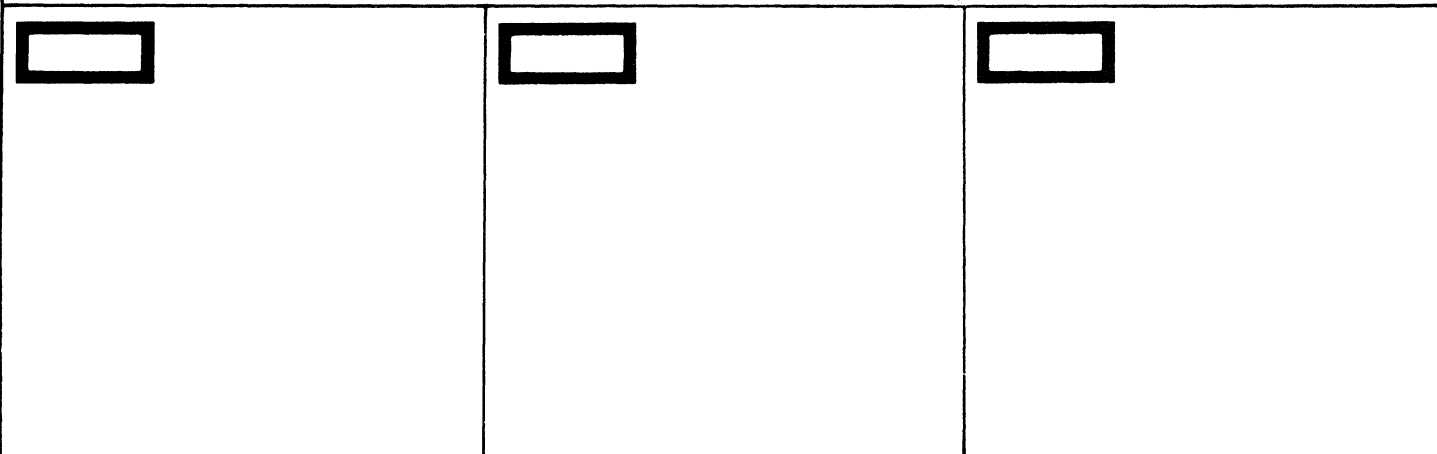
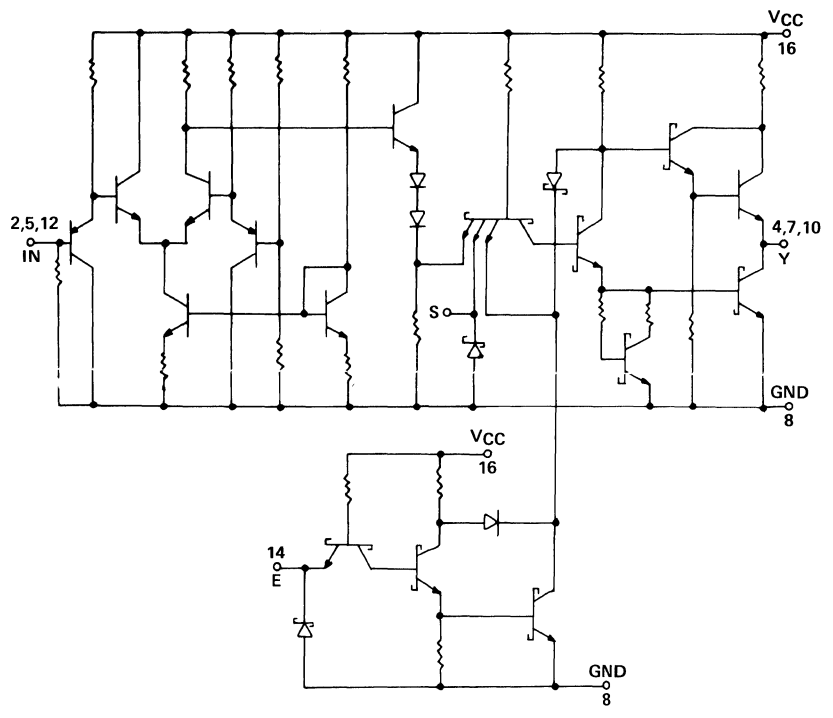


27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE



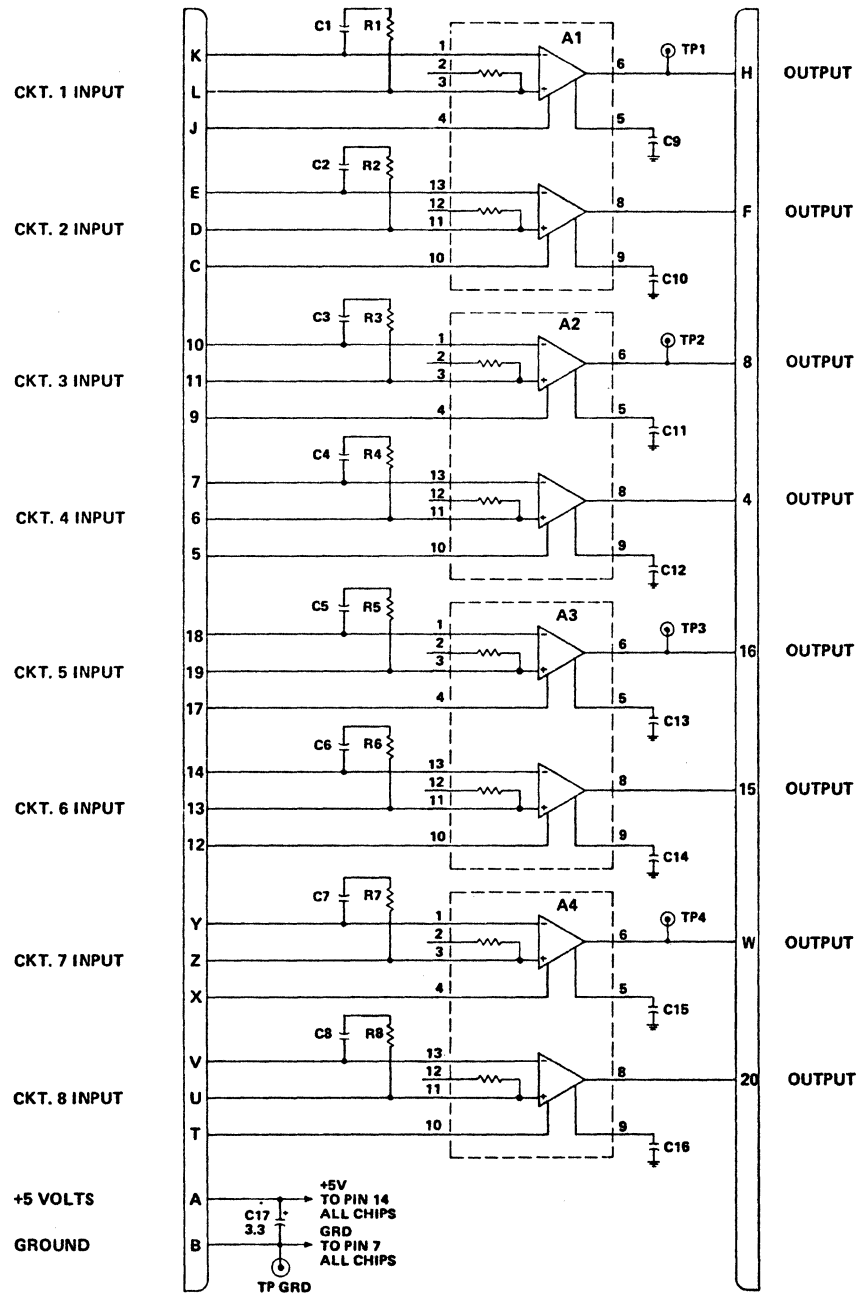
DA46



27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

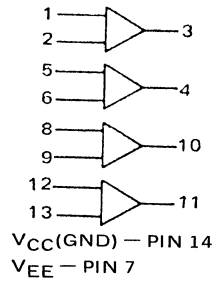
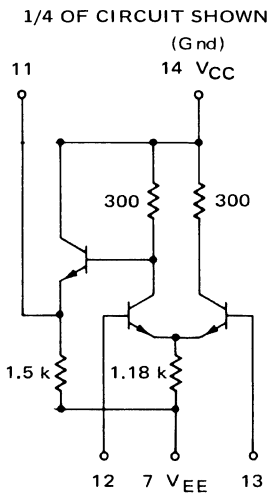
DA47



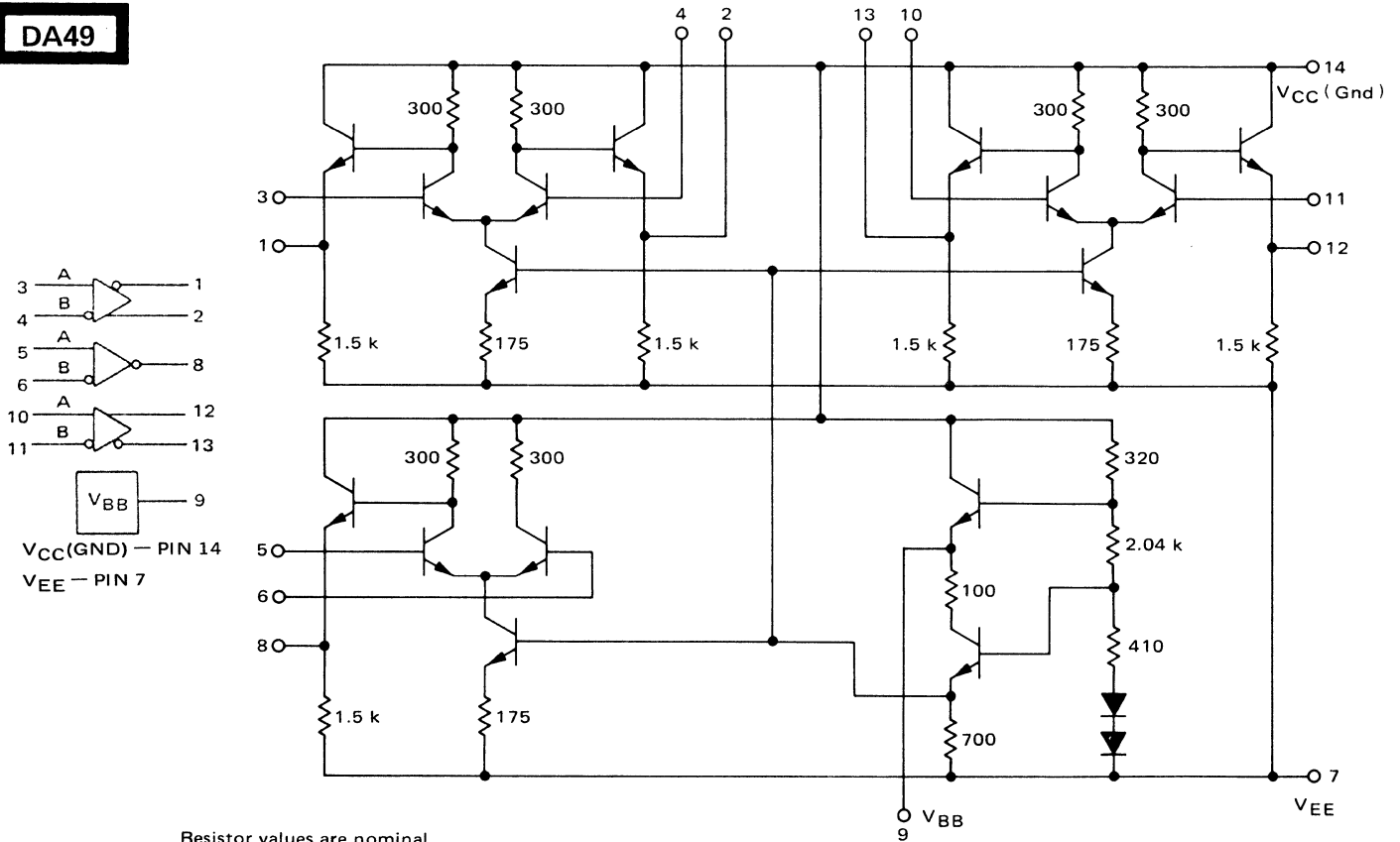
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

DA48



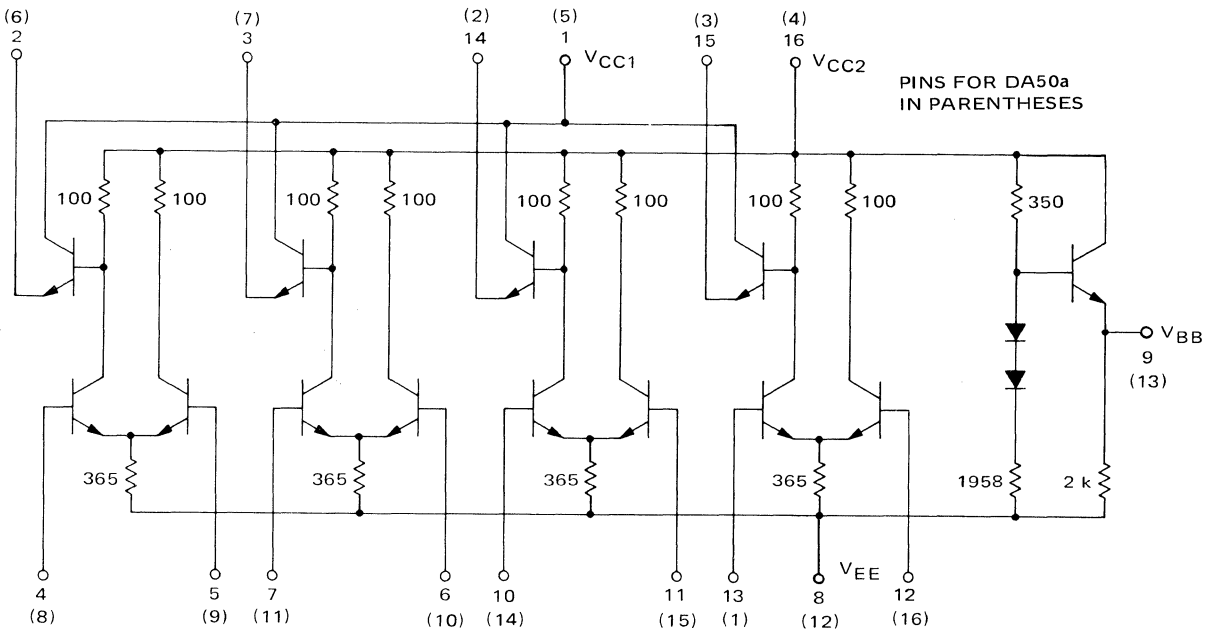
DA49



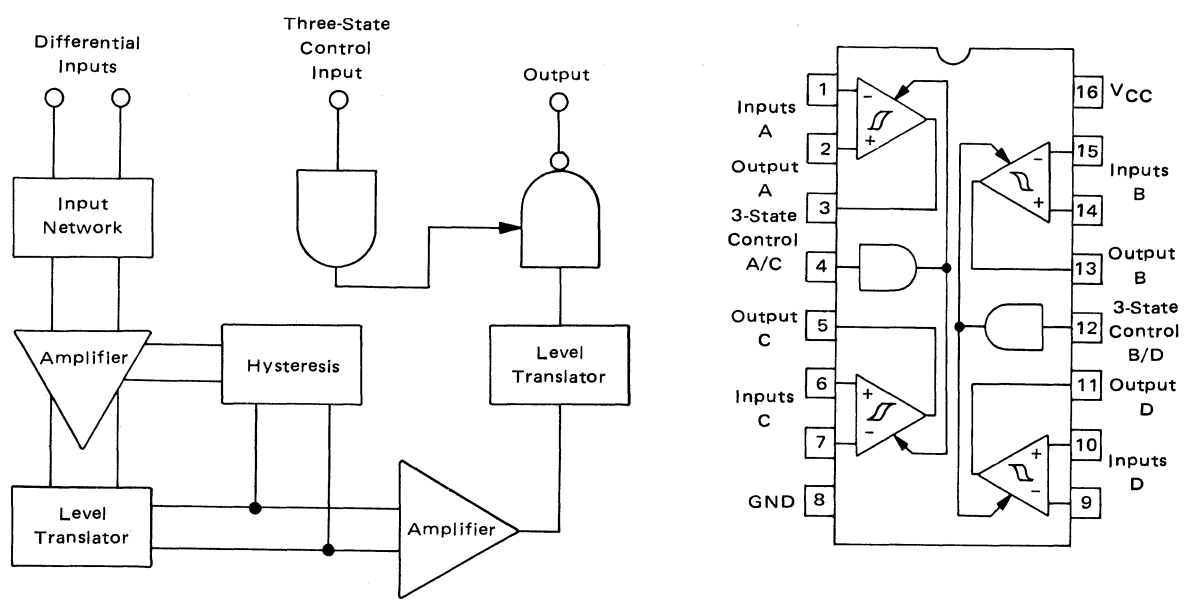
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

DA50



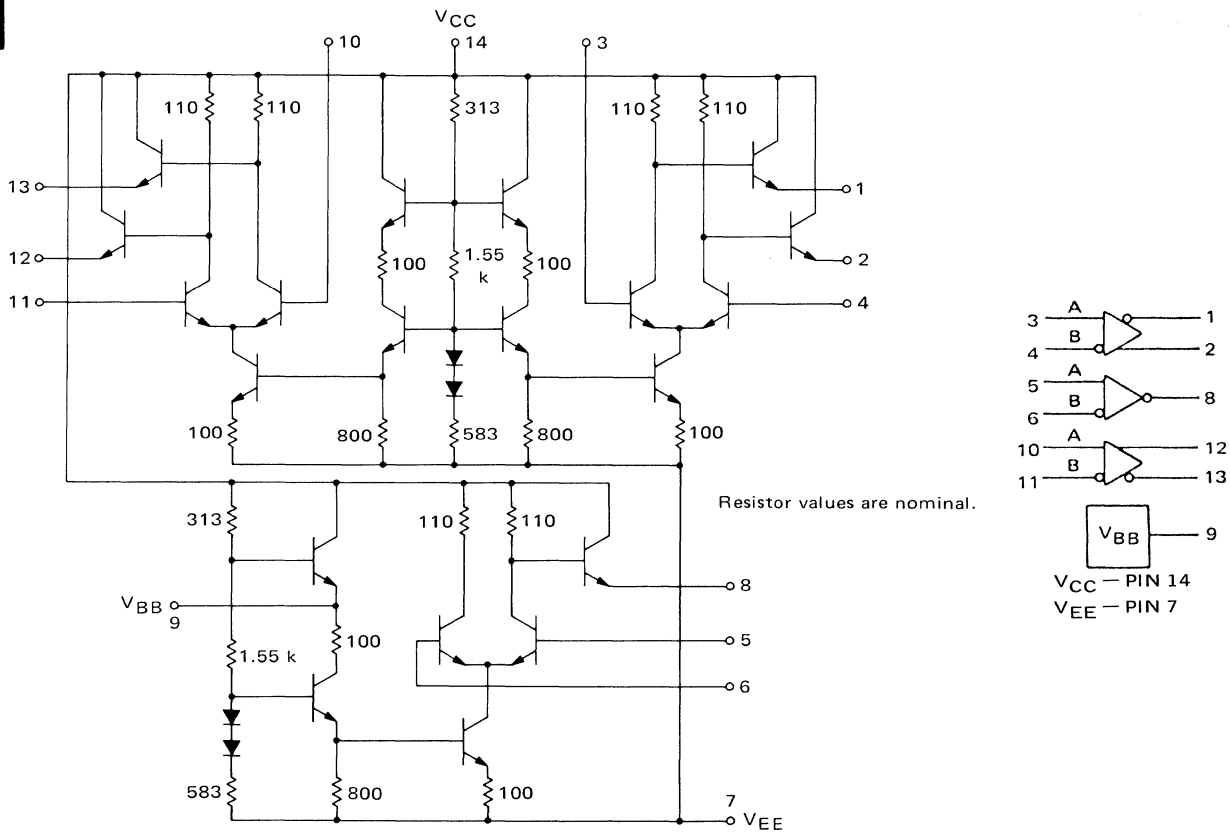
DA51



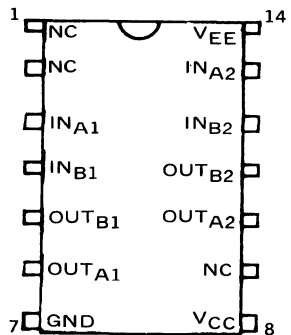
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

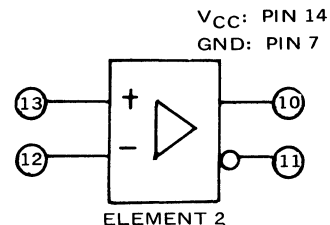
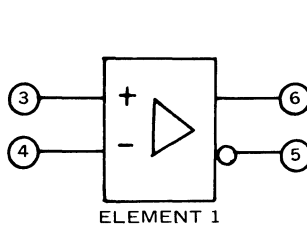
DA52



DA53



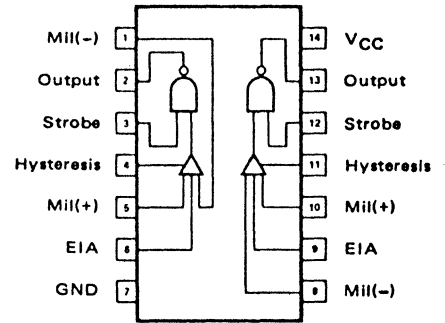
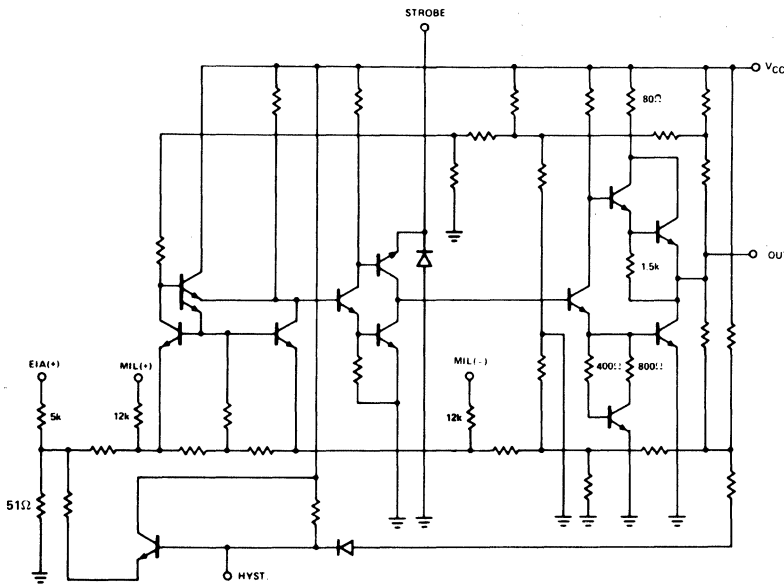
NC=NO CONNECTION



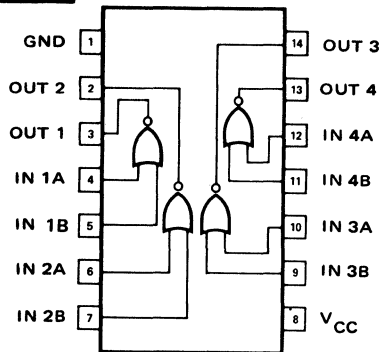
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

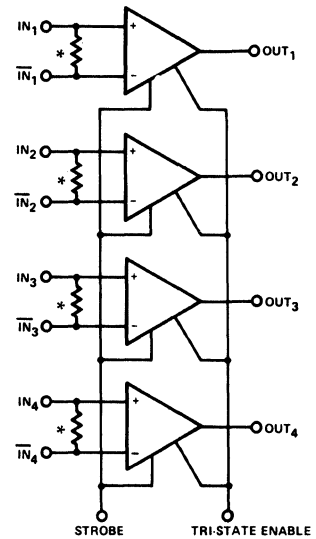
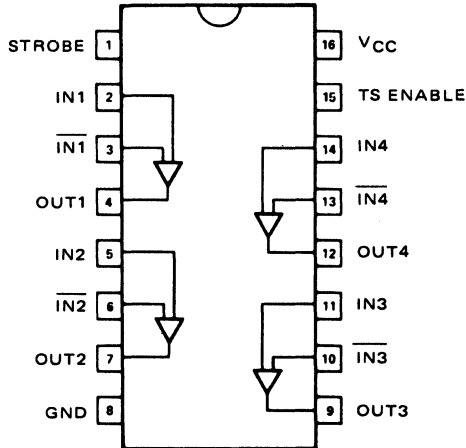
DA54



DA55



DA56

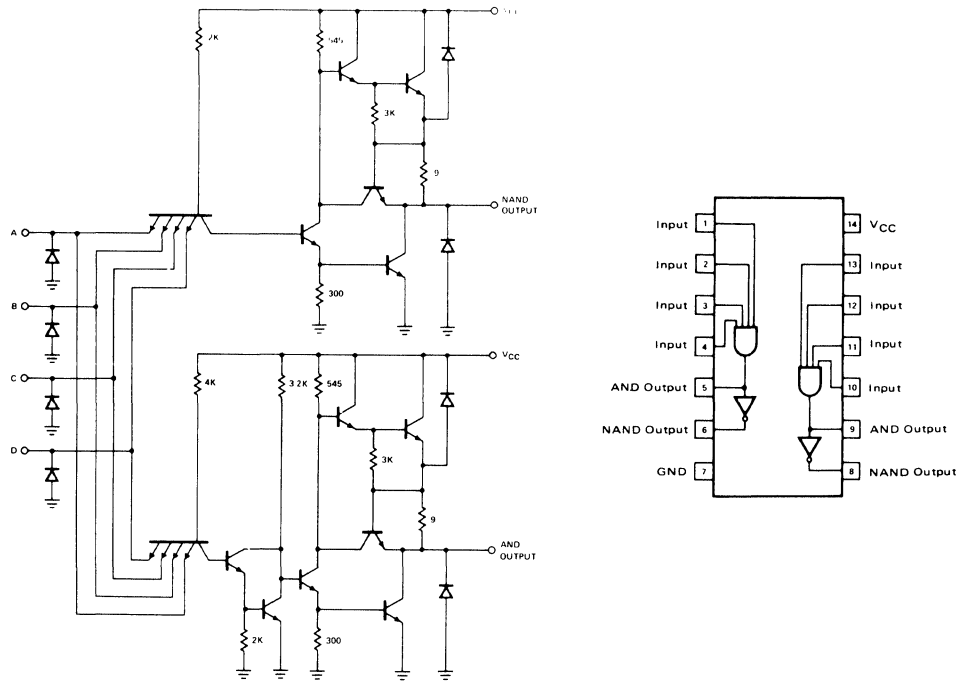


DA56a: * - OPTION INTERNALLY CONNECTED

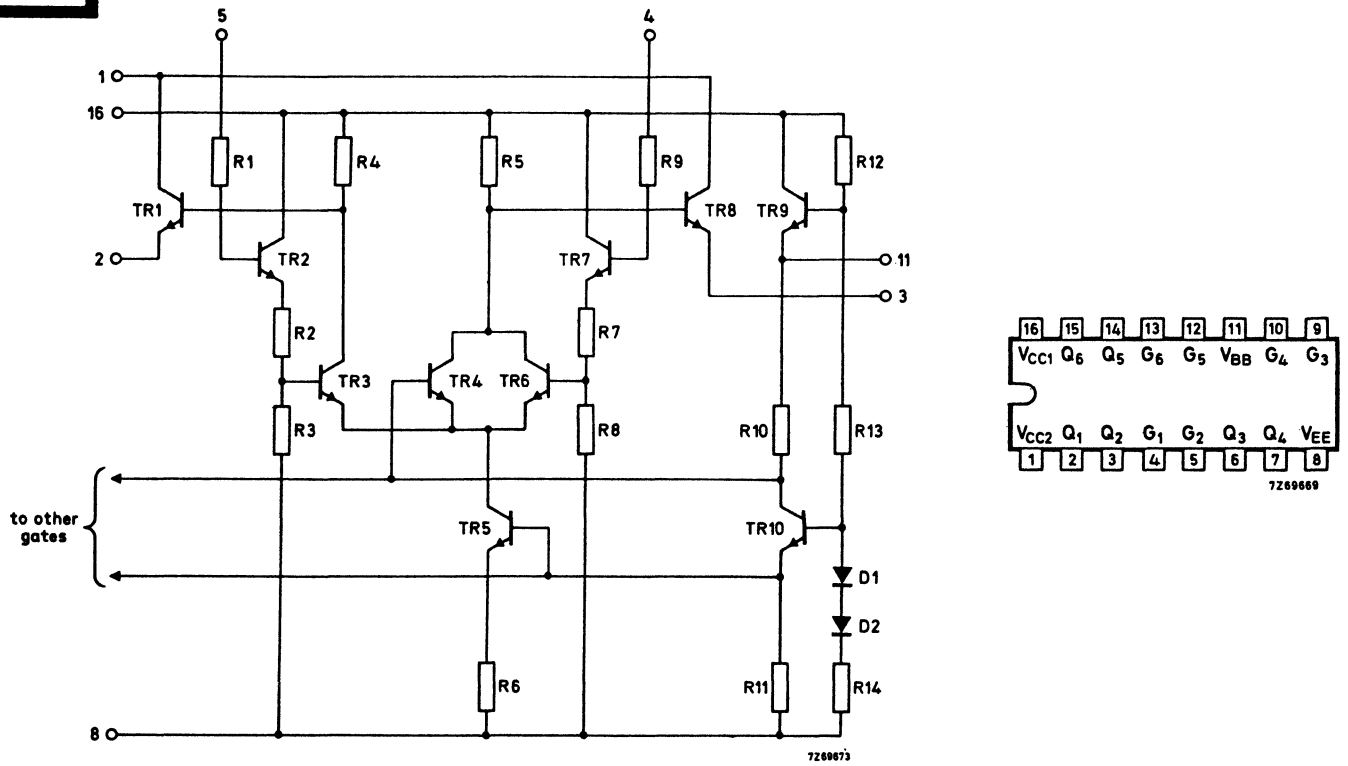
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

DA57



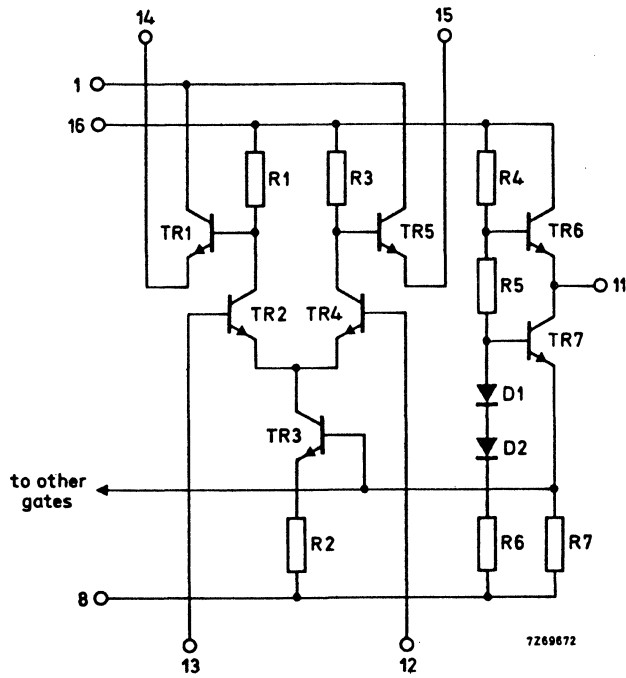
DA58




27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

DA59

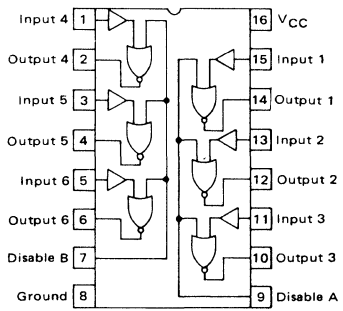


16	15	14	13	12	11	10	9
V _{CC1}	Q ₆	Q ₅	G ₆	G ₅	V _{BB}	G ₄	G ₃
							
V _{CC2}	Q ₁	Q ₂	G ₁	G ₂	Q ₃	Q ₄	V _{EE}
1	2	3	4	5	6	7	8

7269668

[]

DA60



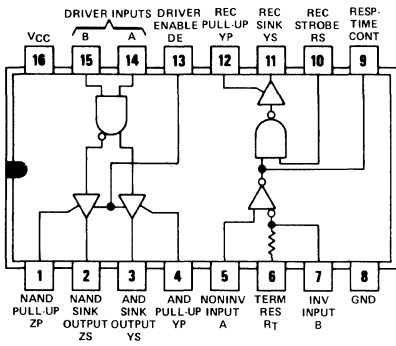
[]

[]

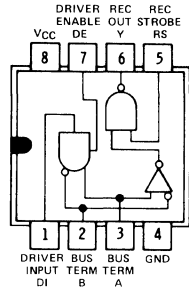
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

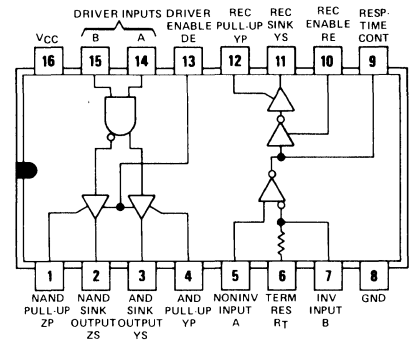
DB2



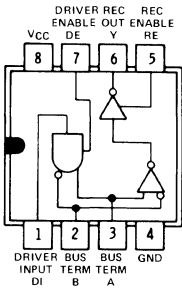
DB3



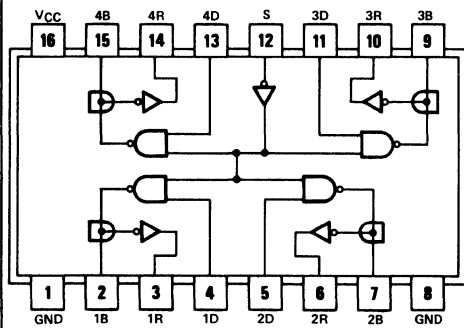
DB4



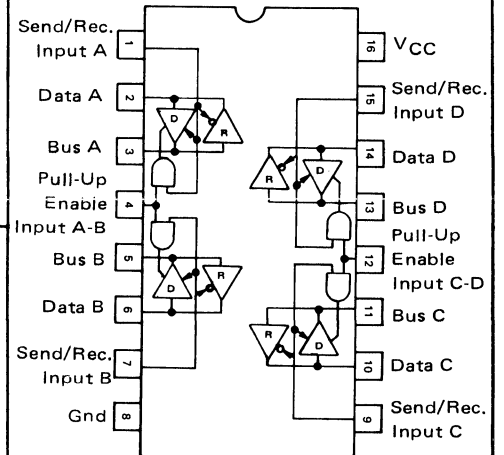
DB5



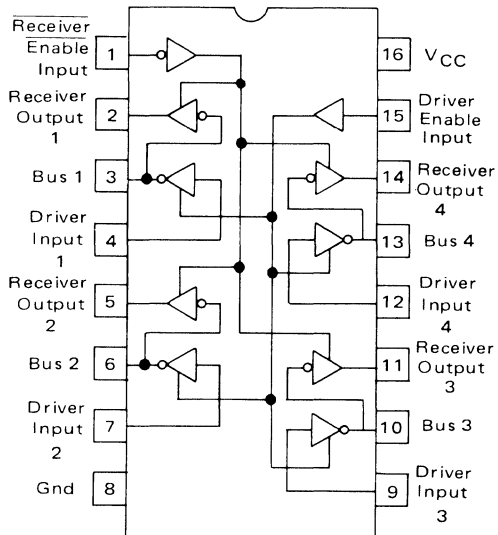
DB6



DB7



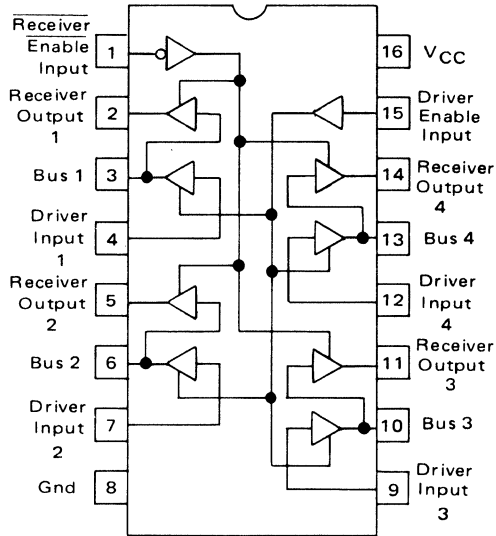
DB8



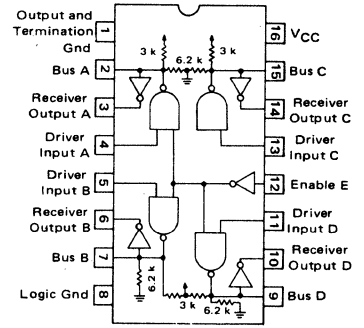
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

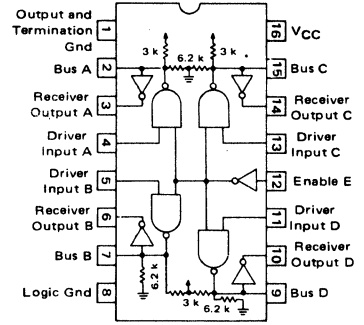
DB9



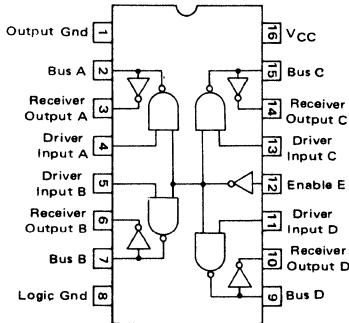
DB10



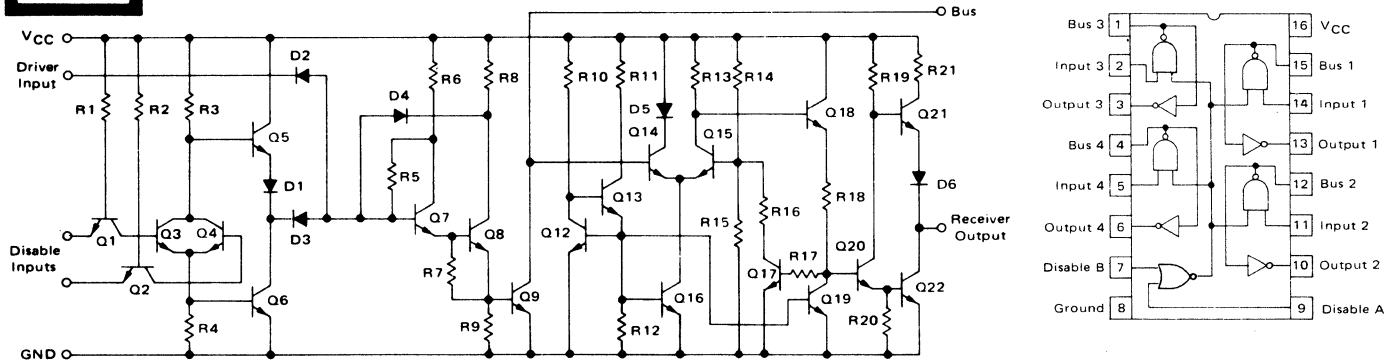
DB11



DB12



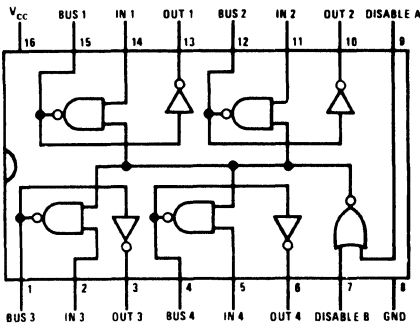
DB13



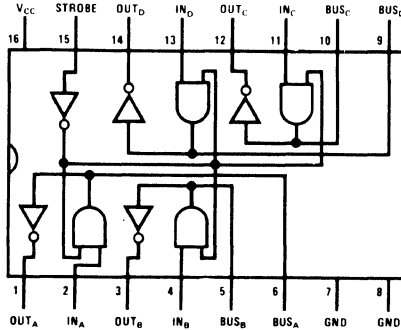
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

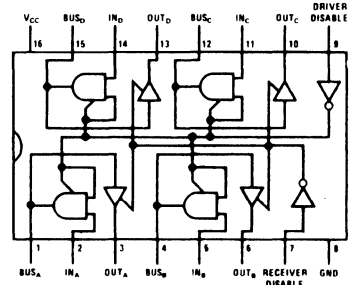
DB14



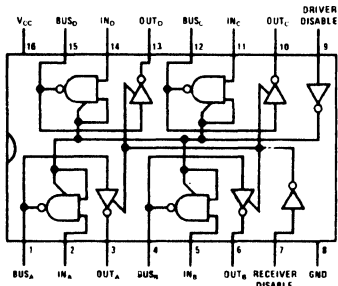
DB15



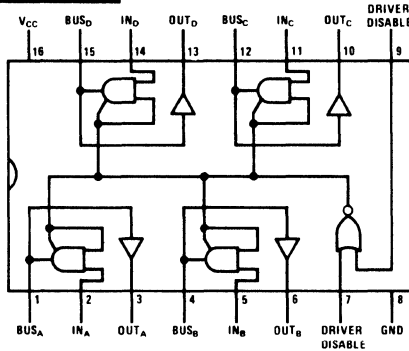
DB16



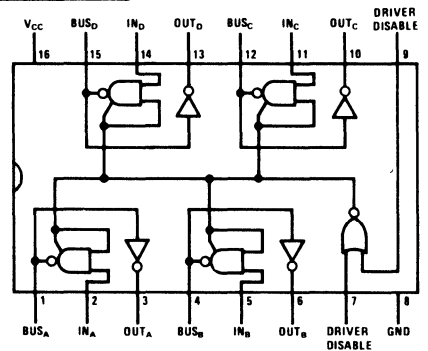
DB17



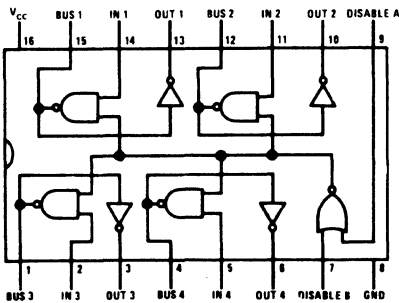
DB18



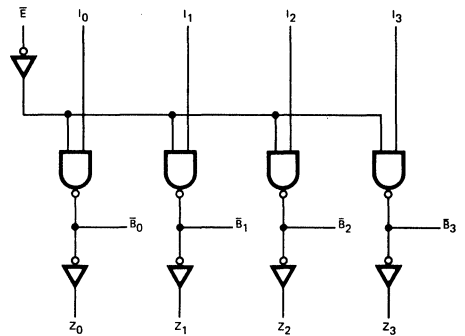
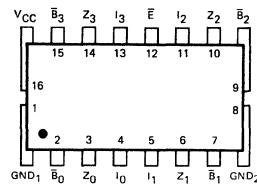
DB19



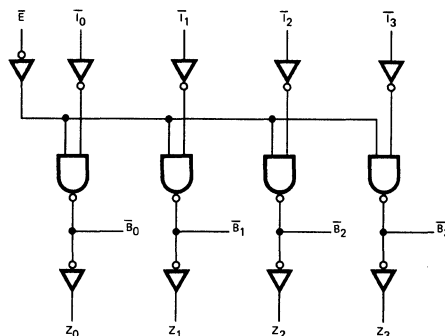
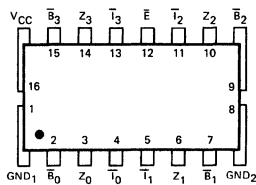
DB20



DB21



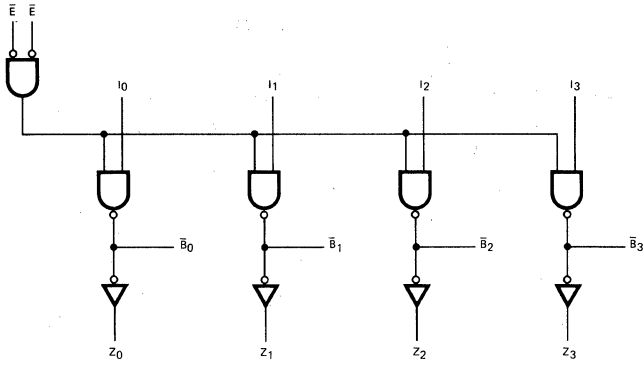
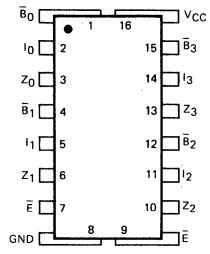
DB22



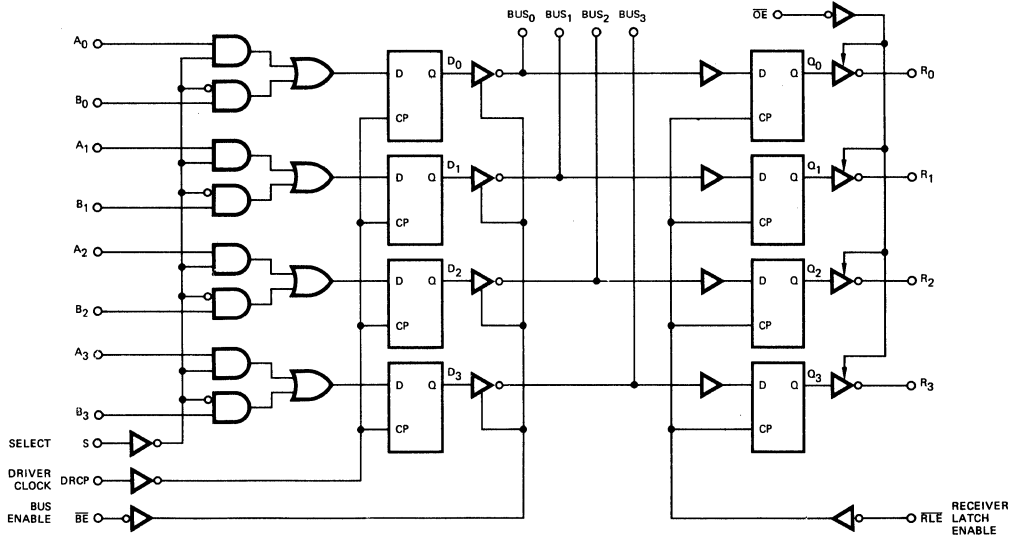
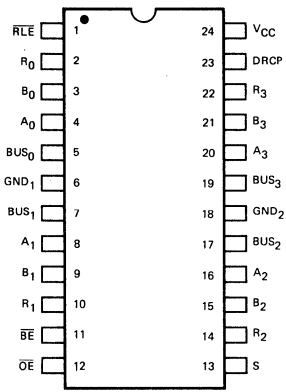
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

DB23



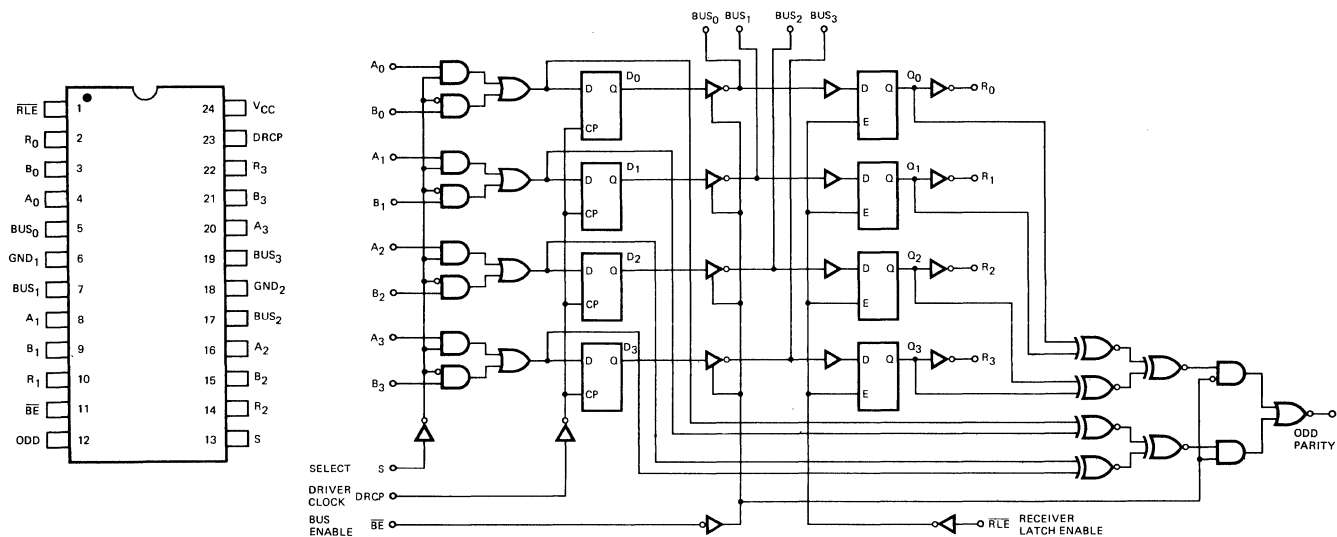
DB24



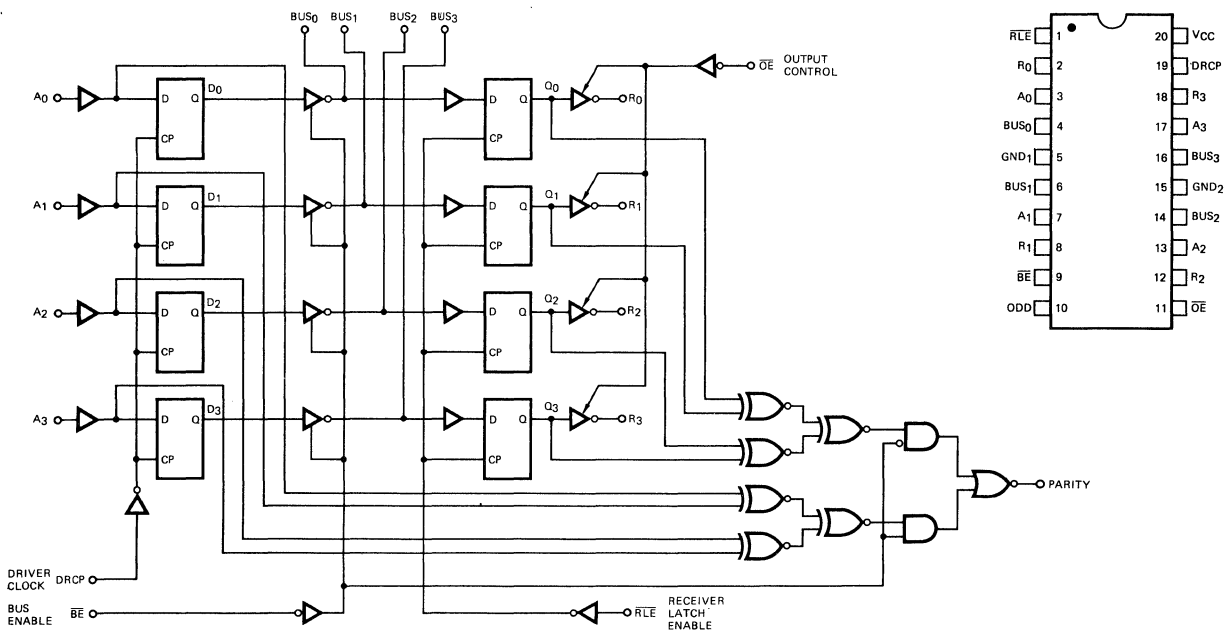
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

DB25



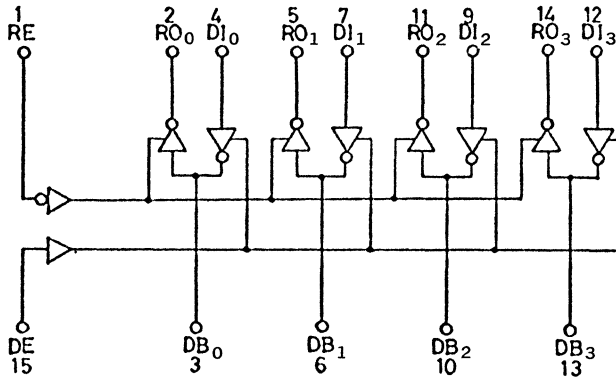
DB26



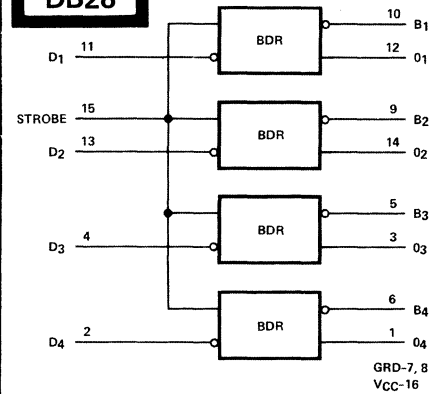
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

DB27

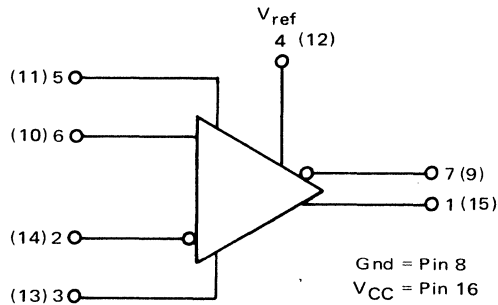


DB28



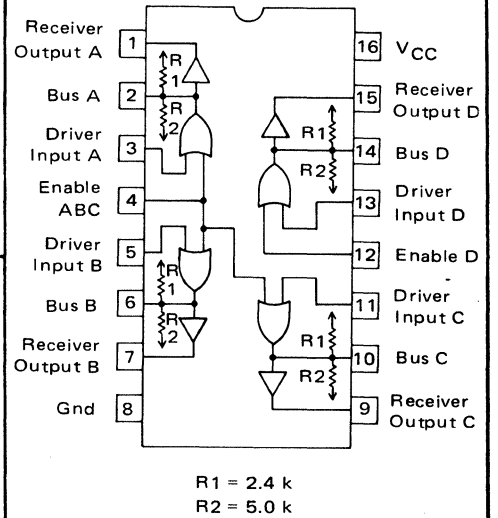
DB29

(1/2 Device Shown)



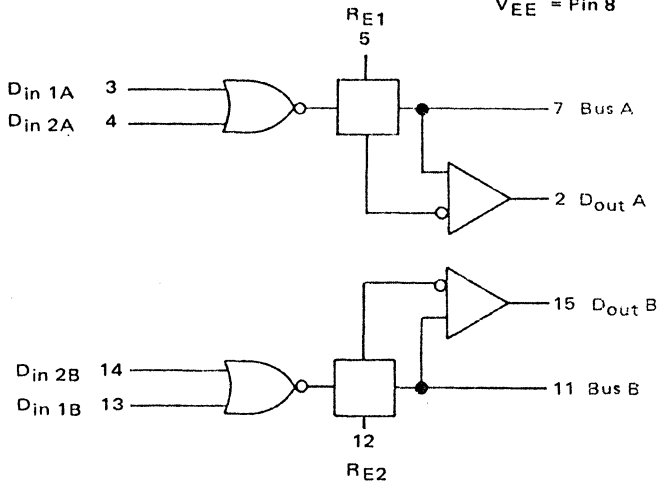
Numbers in parenthesis denotes pin numbers for other half of device

DB30



DB31

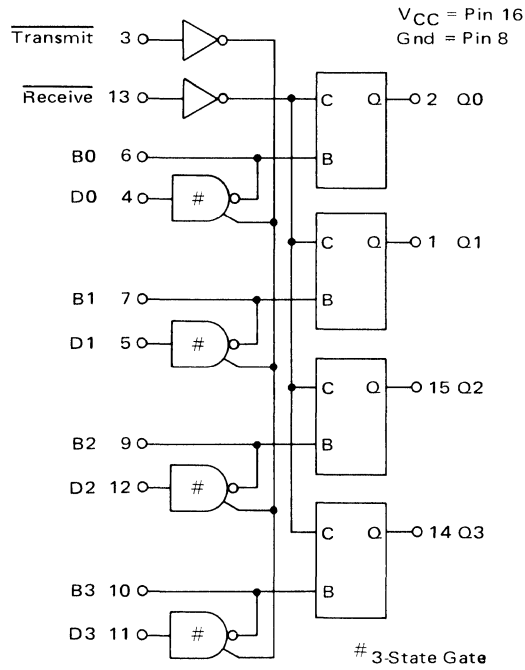
VCC1 = Pin 1
VCC2 = Pin 16
VEE = Pin 8



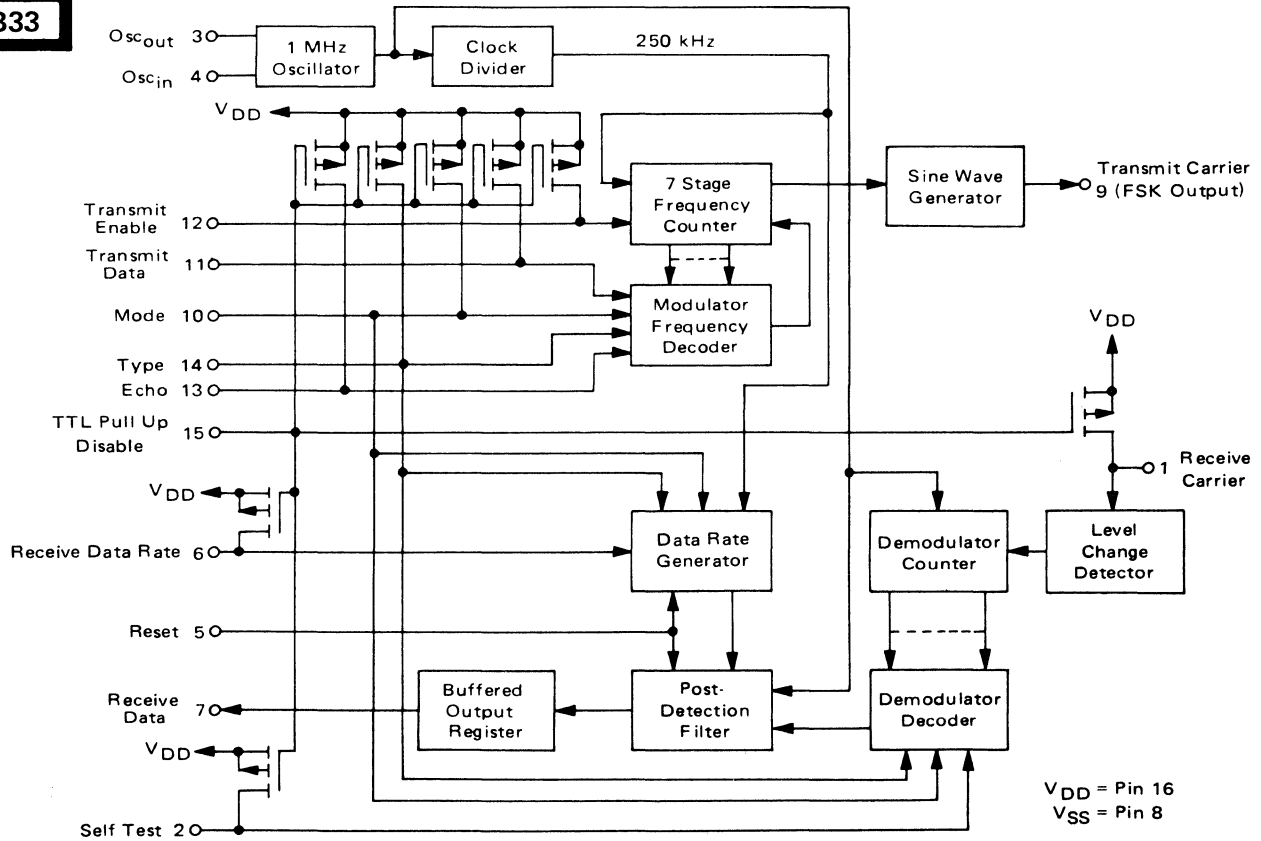
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

DB32



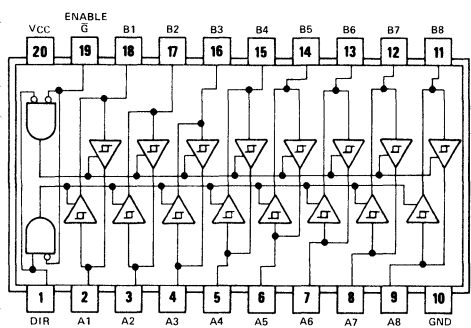
DB33



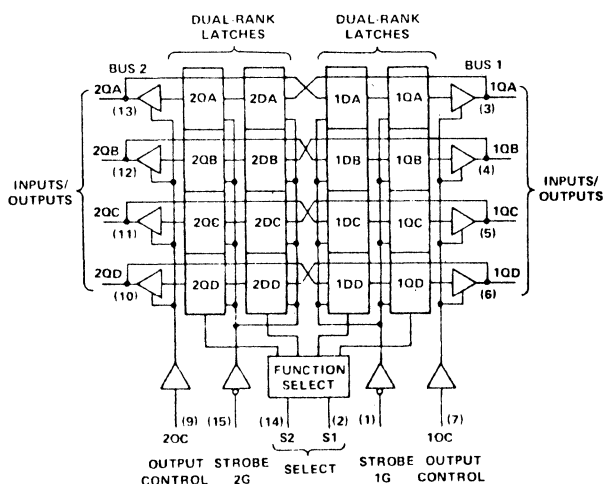
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

DB34

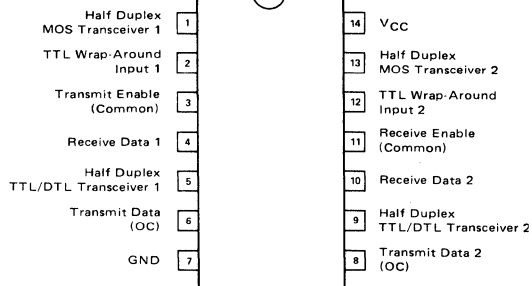
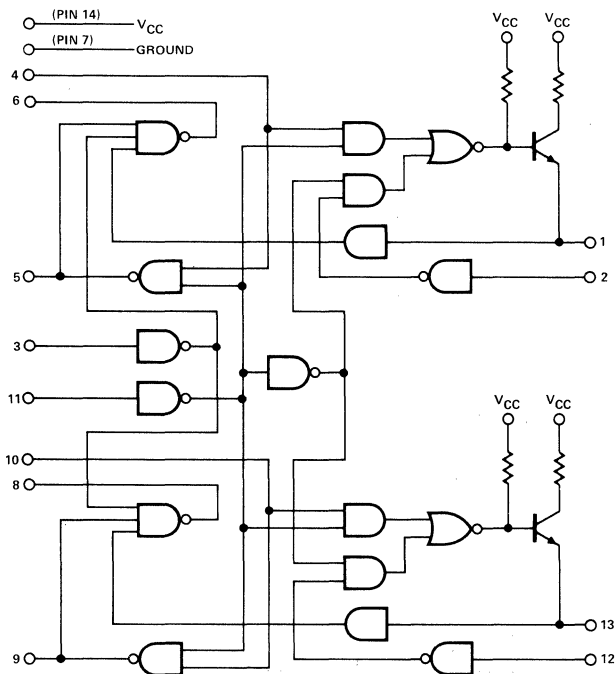


DB35

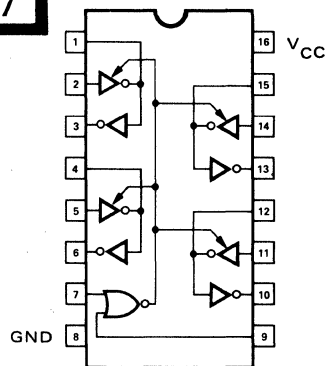


V_{CC} = PIN (16), GND = PIN (8)

DB36



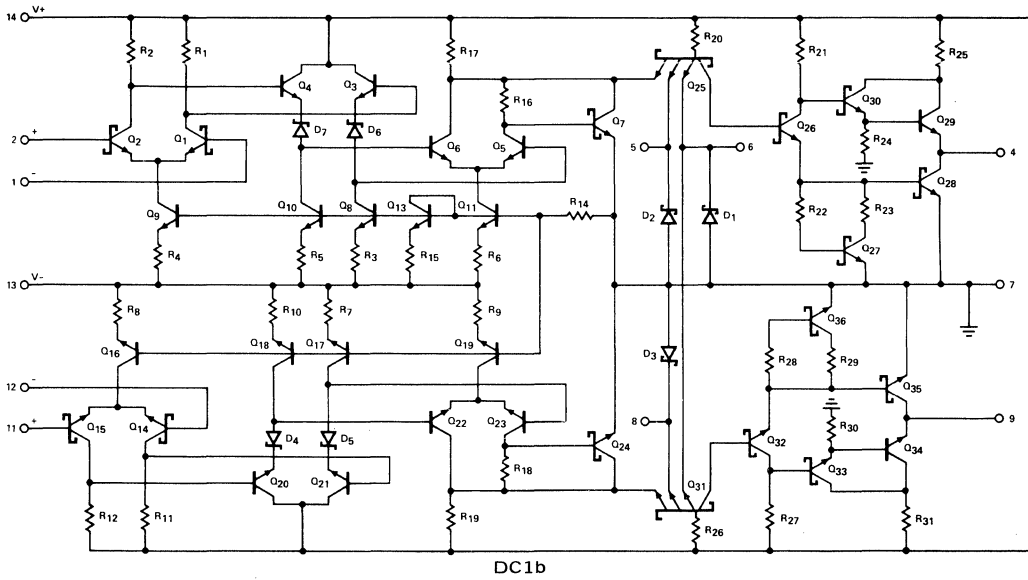
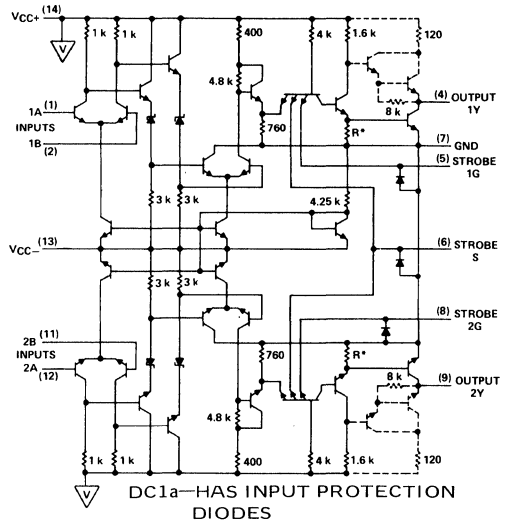
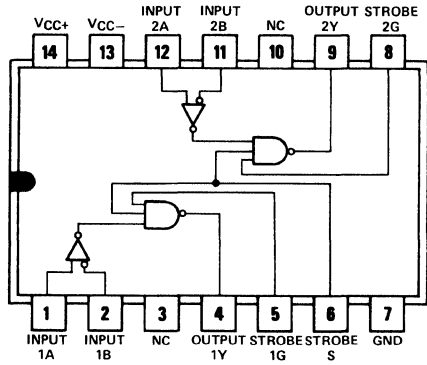
DB37



27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

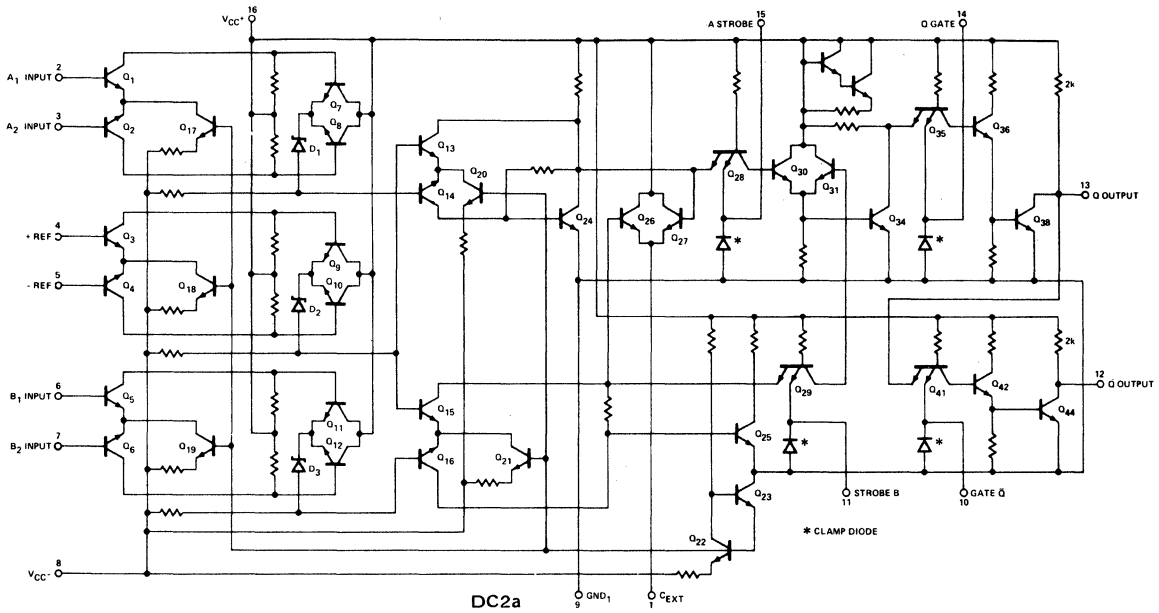
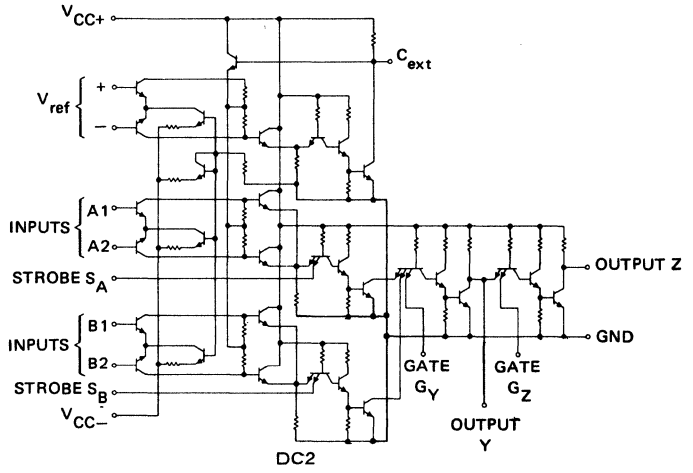
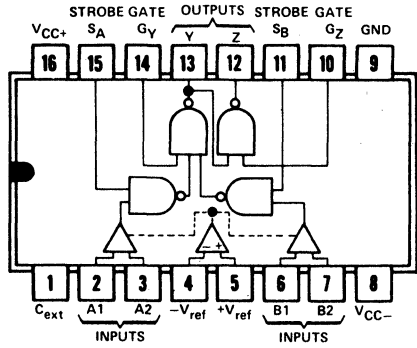
DC1



27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

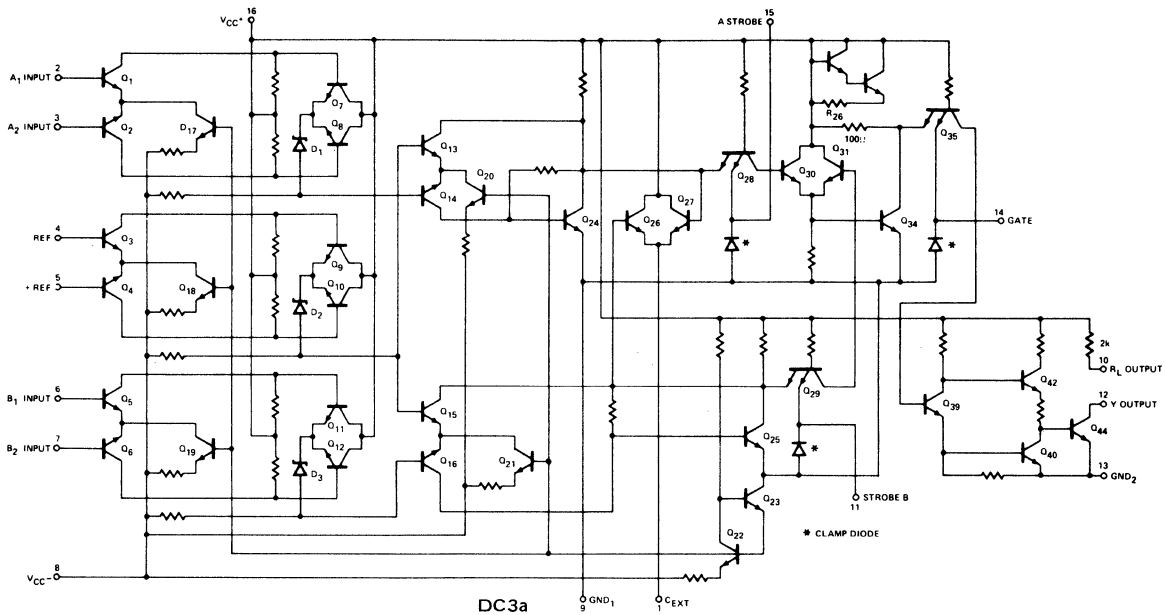
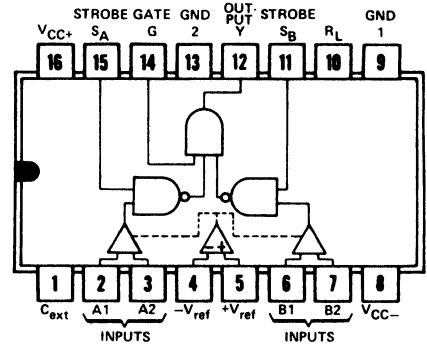
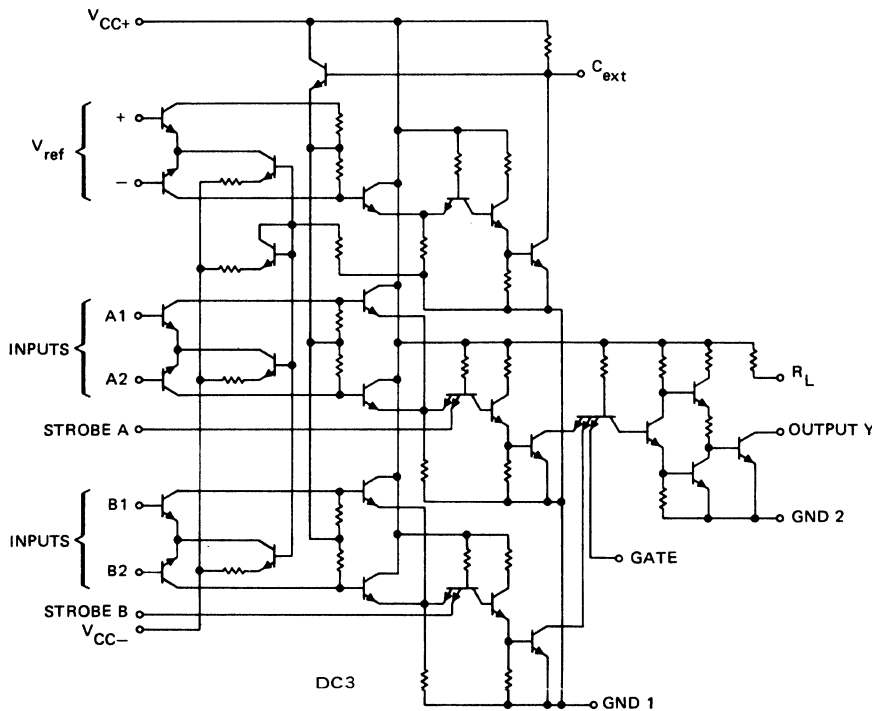
DC2



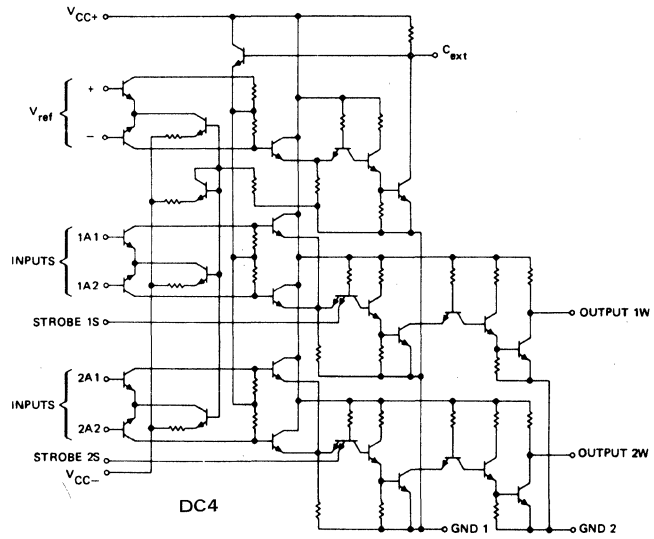
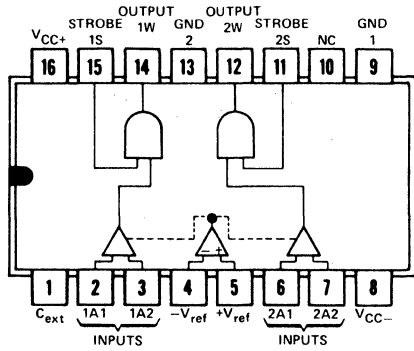
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

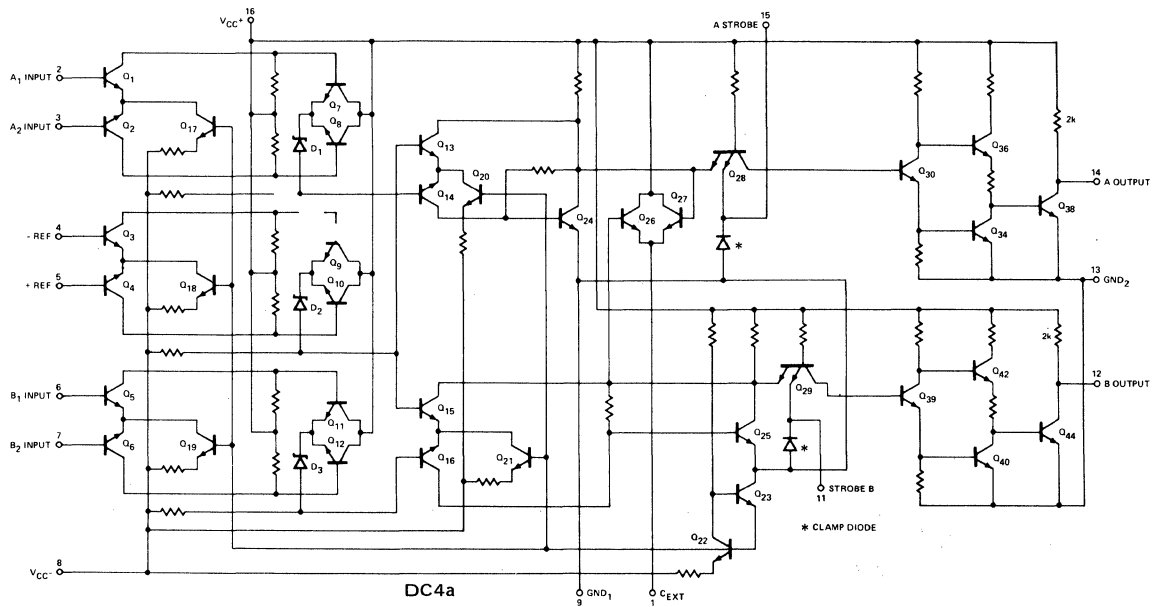
DC3



DC4



DC4

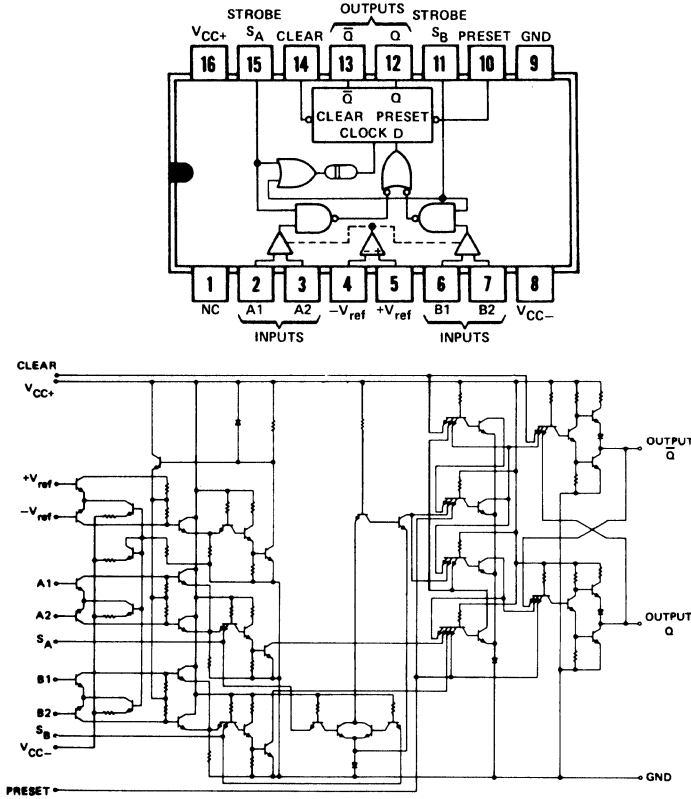


DC4a

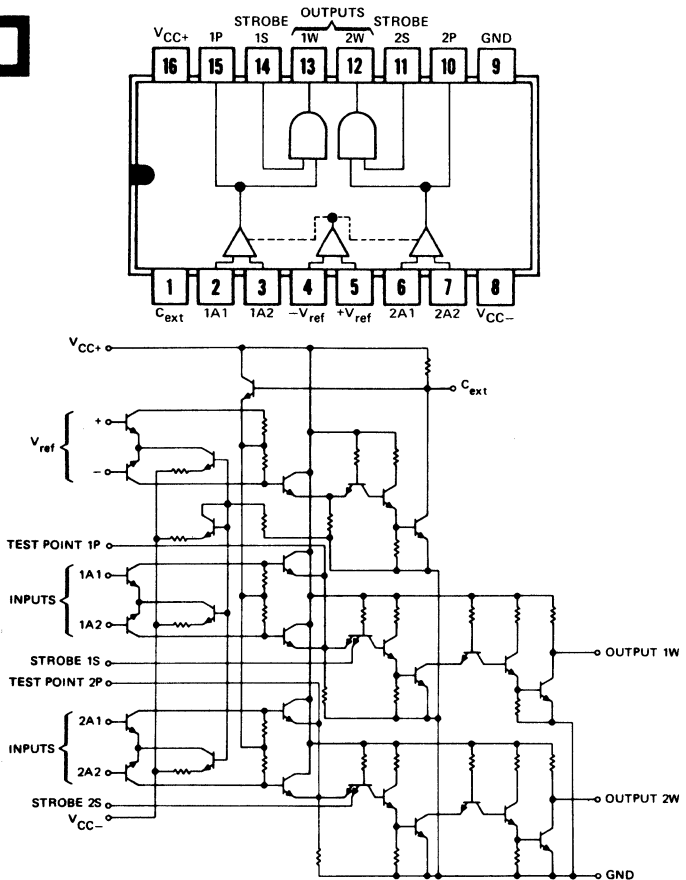
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

DC5



DC6



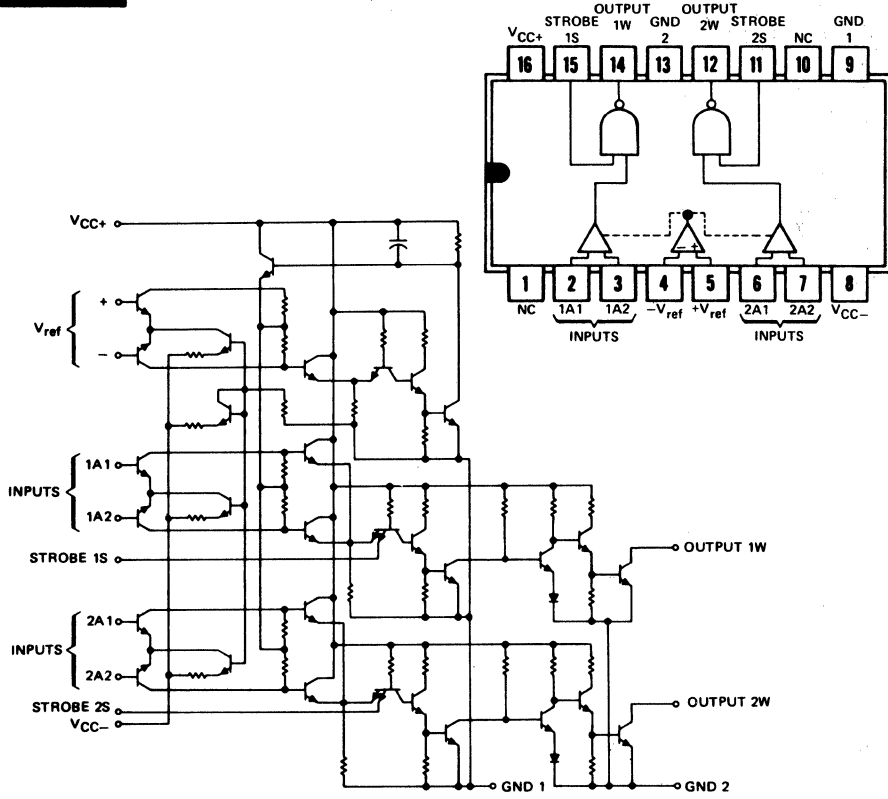
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

DC7

[]

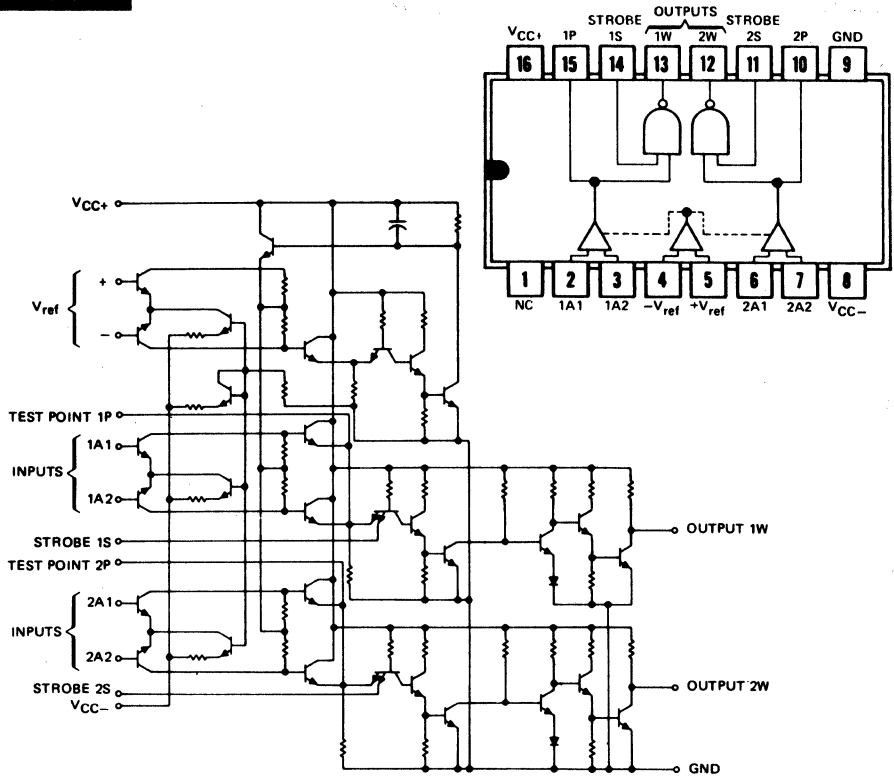
[]



[]

DC8

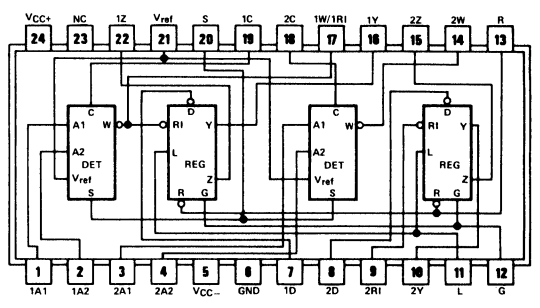
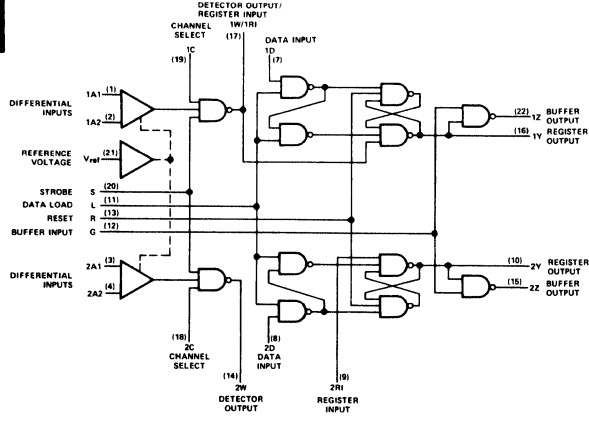
[]



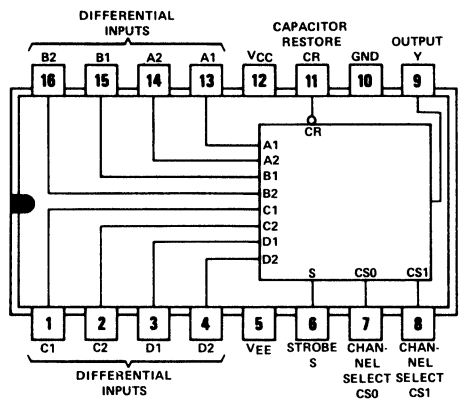
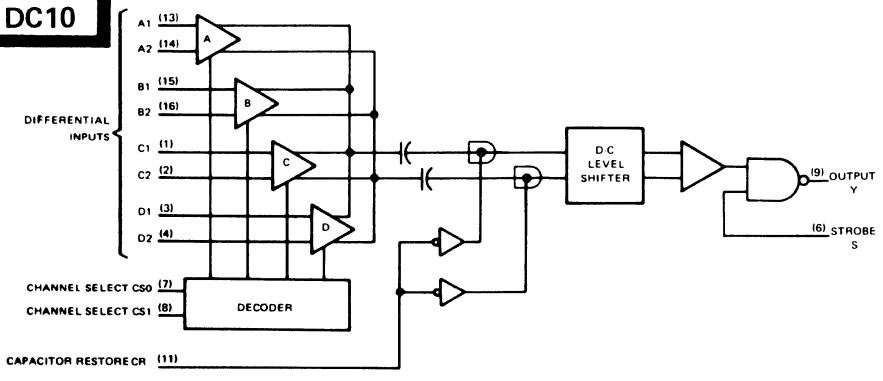
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

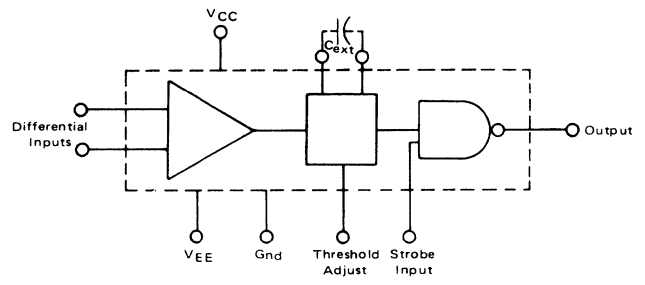
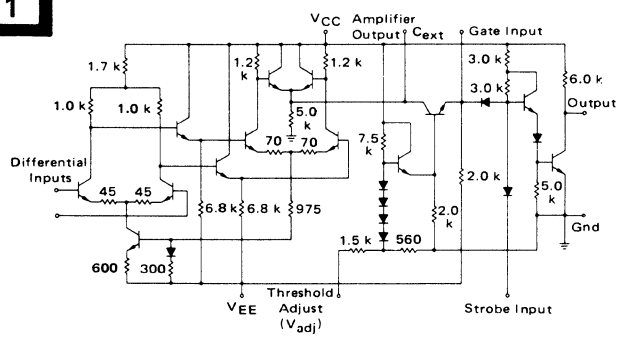
DC9



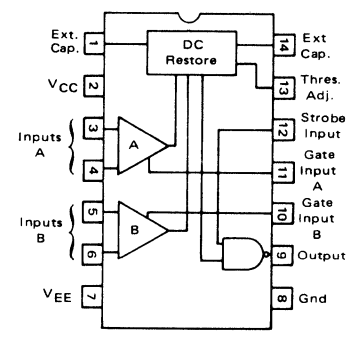
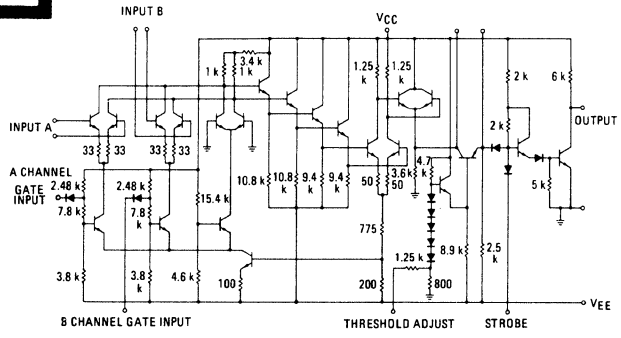
DC10



DC11



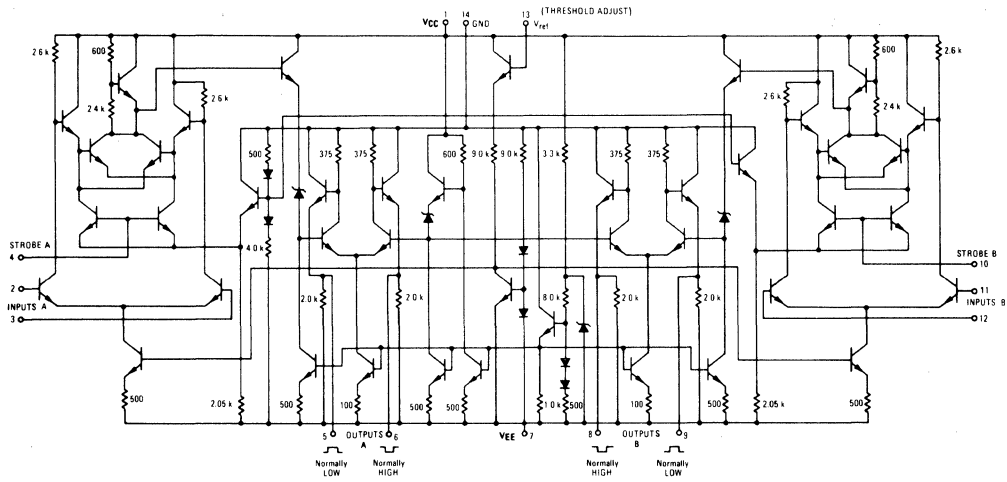
DC12



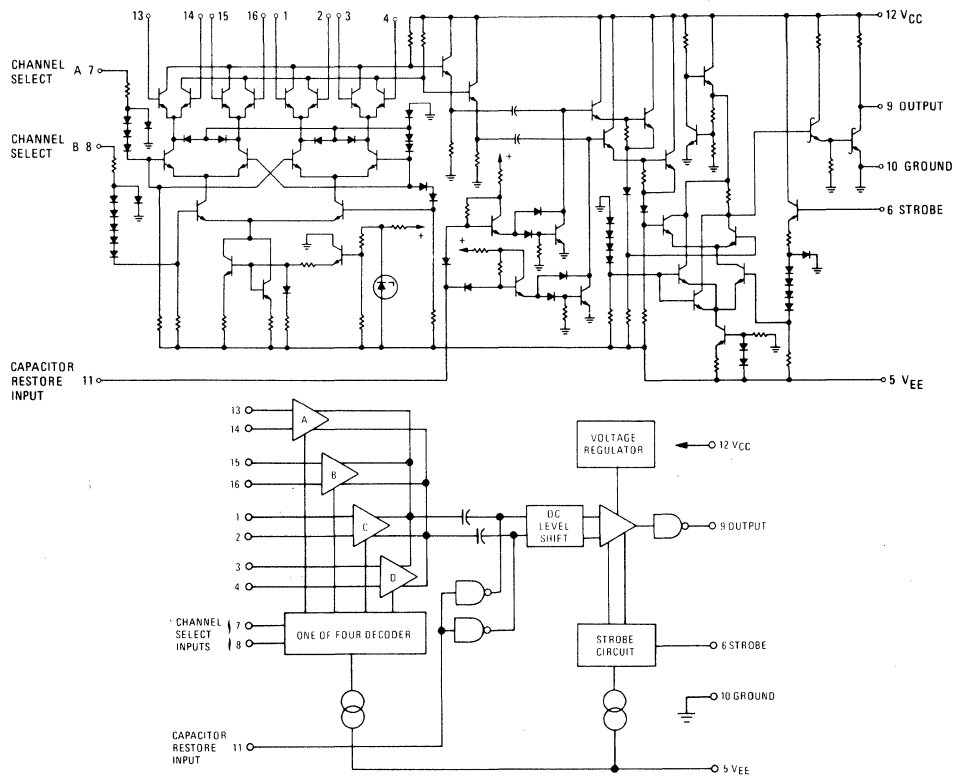
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

DC13



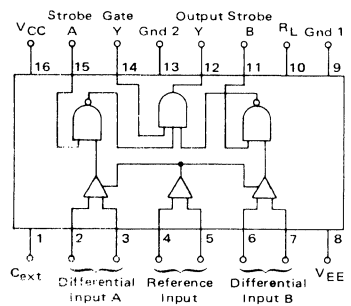
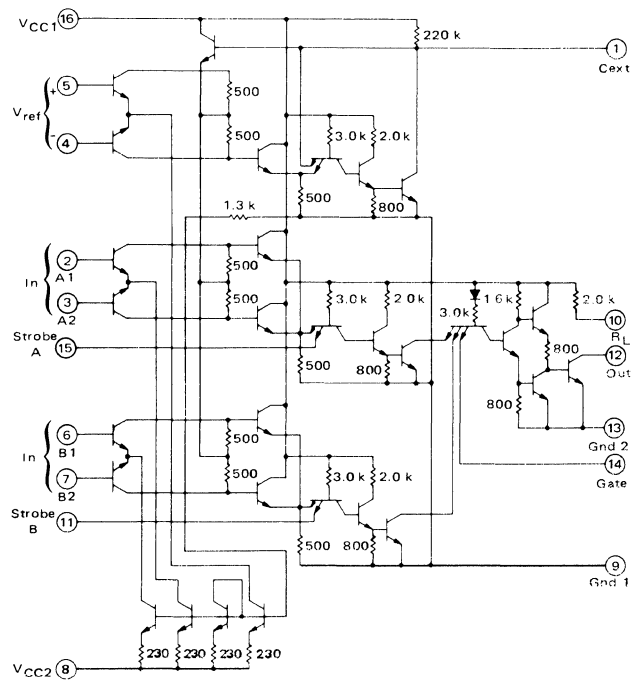
DC14



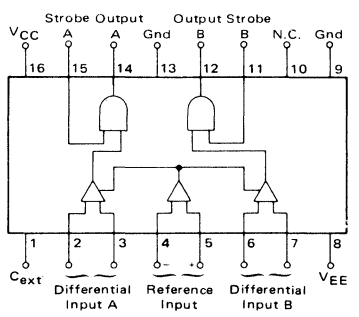
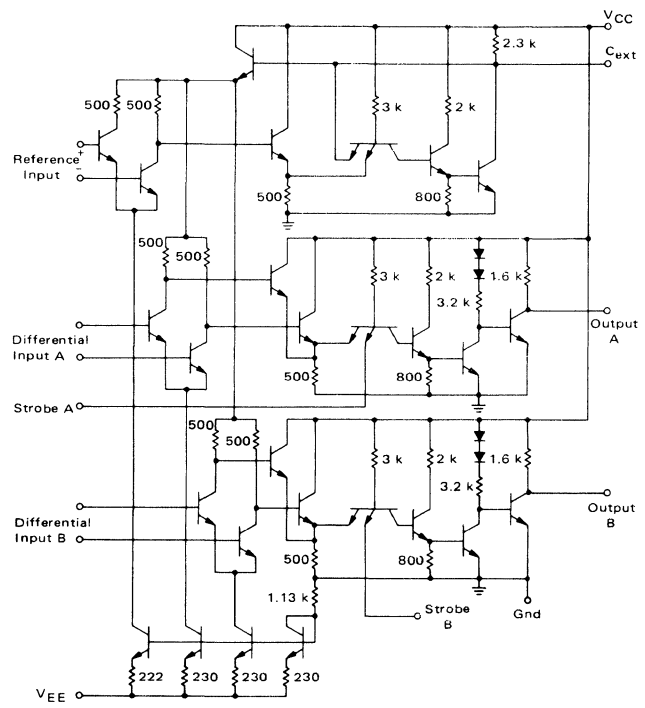
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

DC15



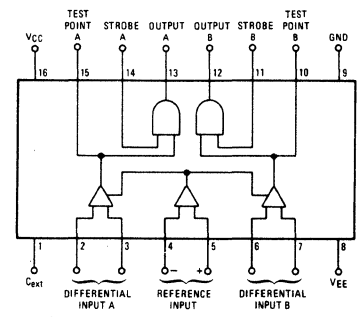
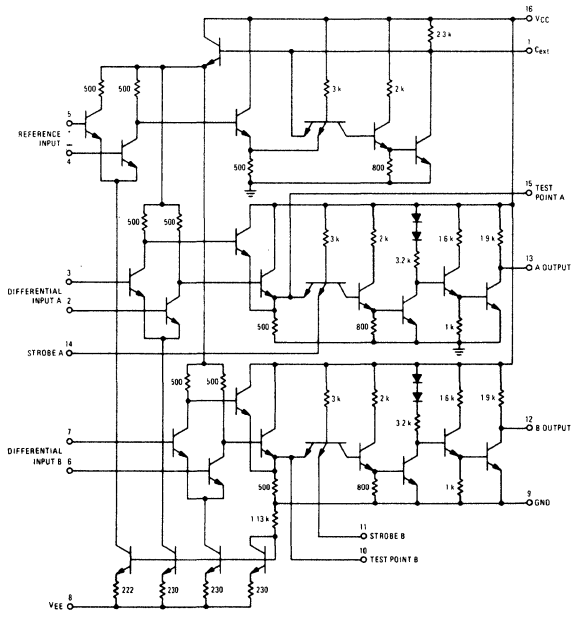
DC16



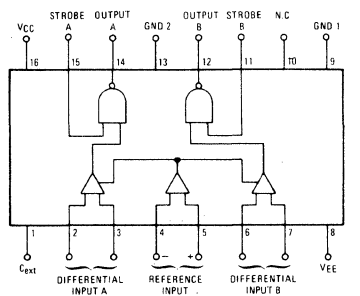
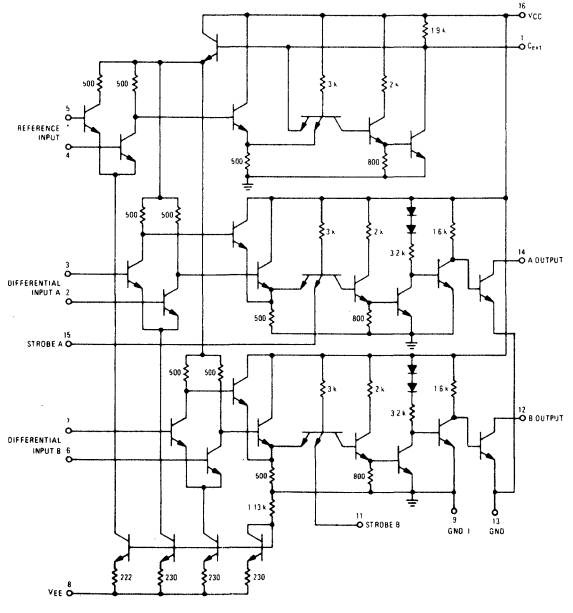
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

DC17



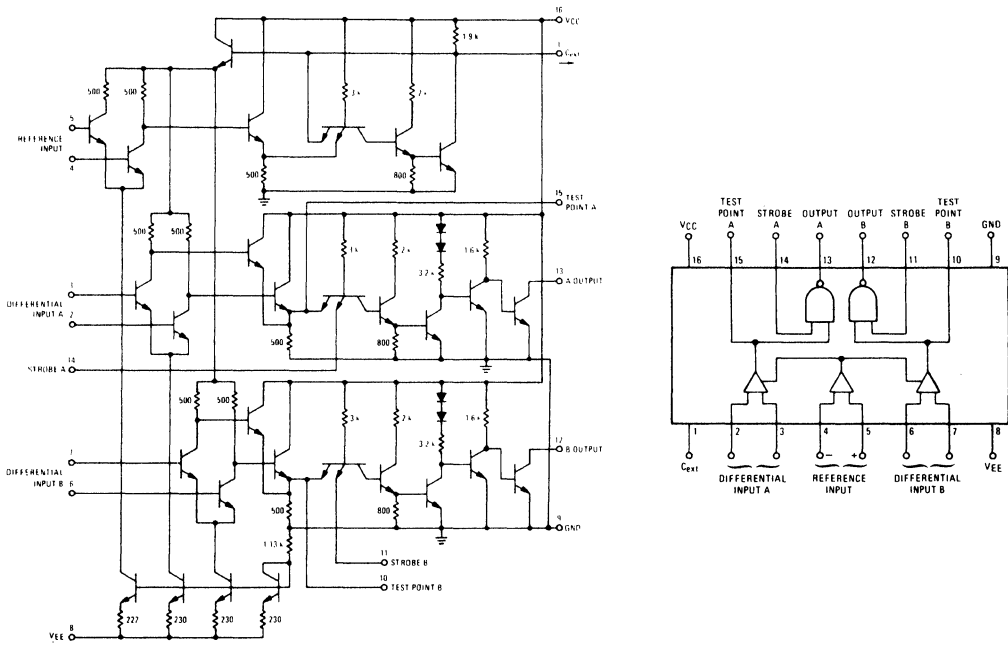
DC18



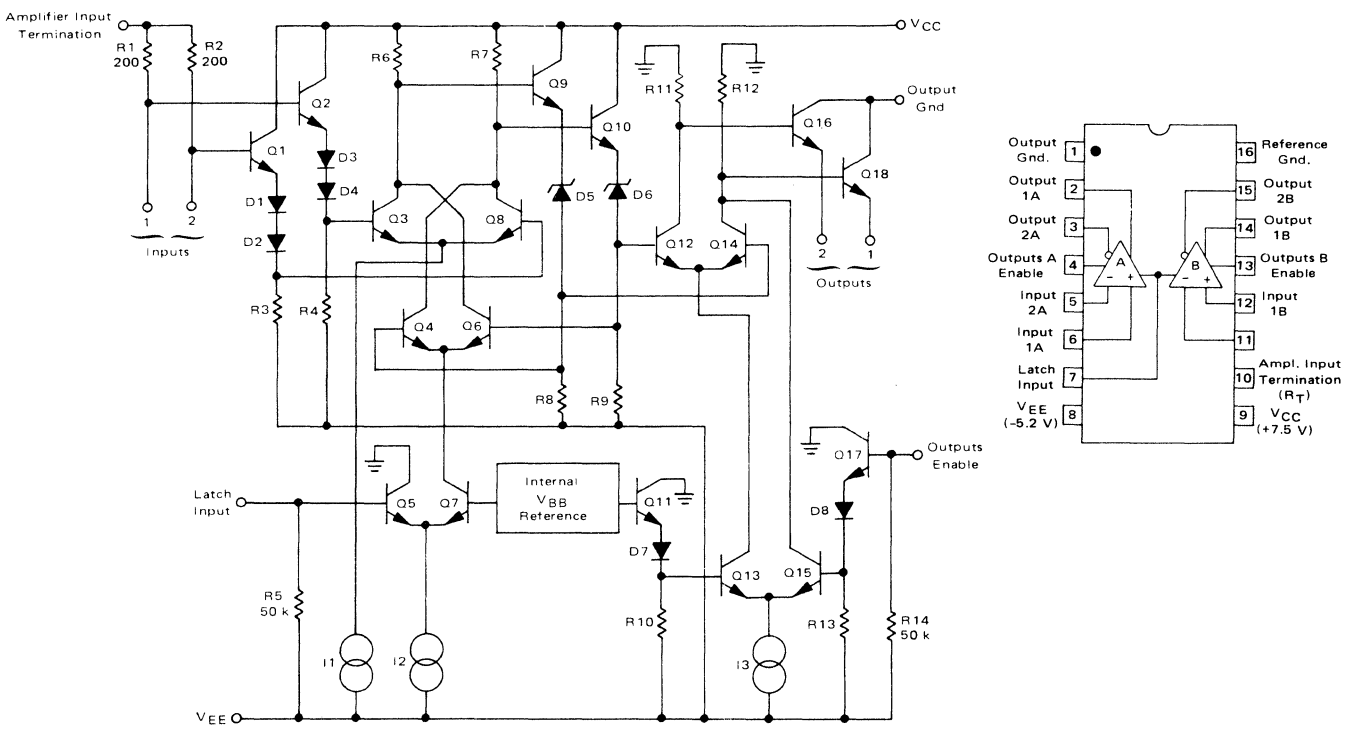
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

DC19



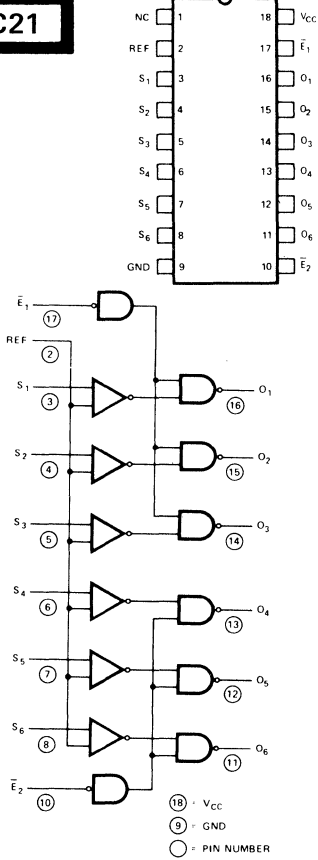
DC20



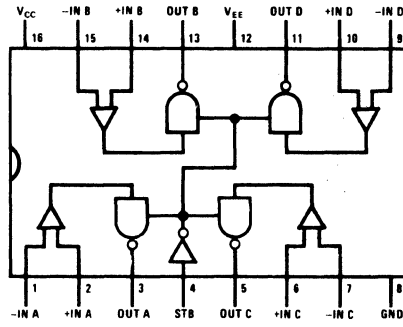
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

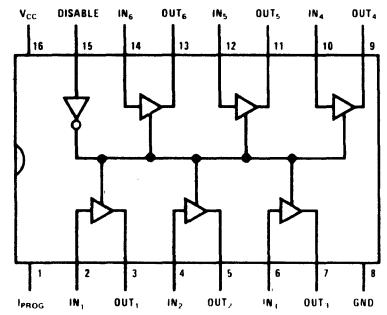
DC21



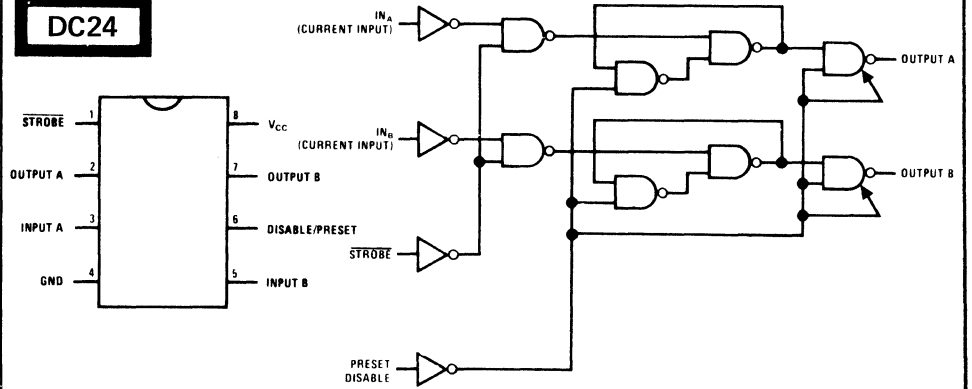
DC22



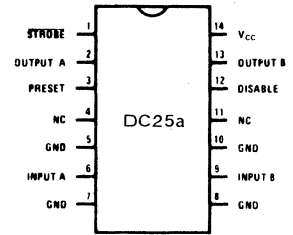
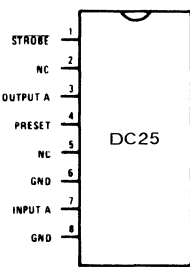
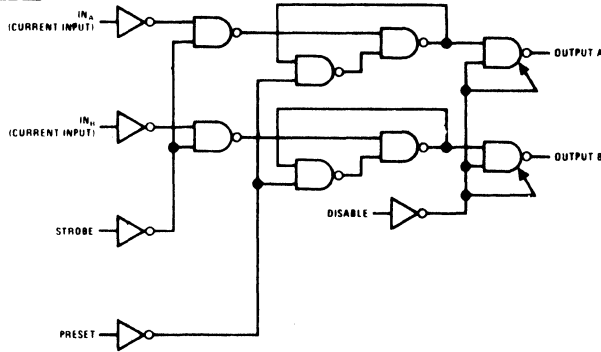
DC23



DC24



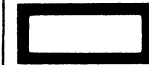
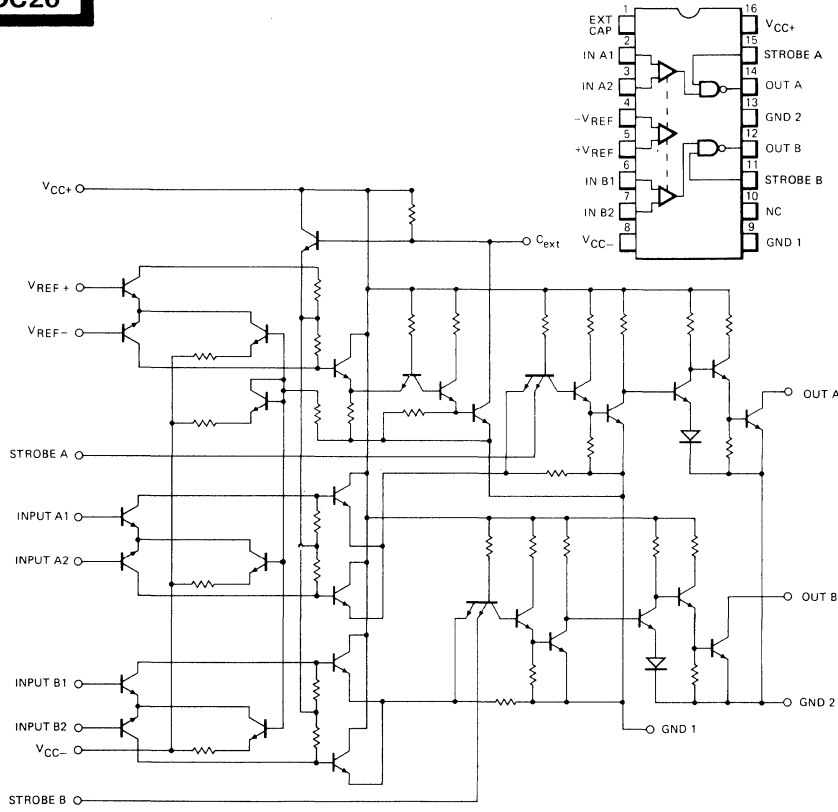
DC25



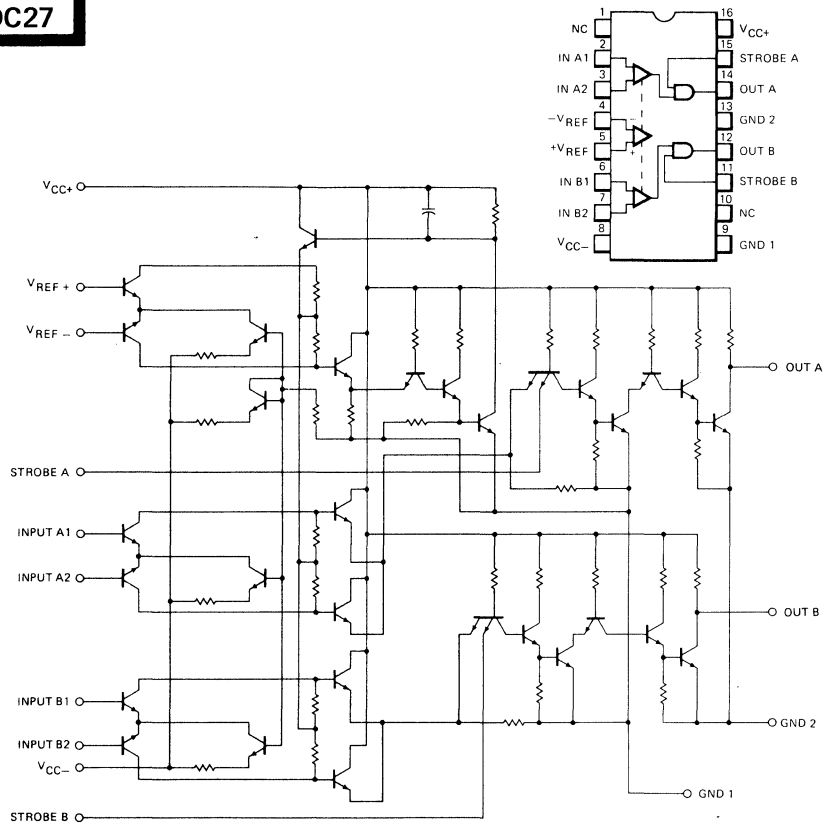
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

DC26



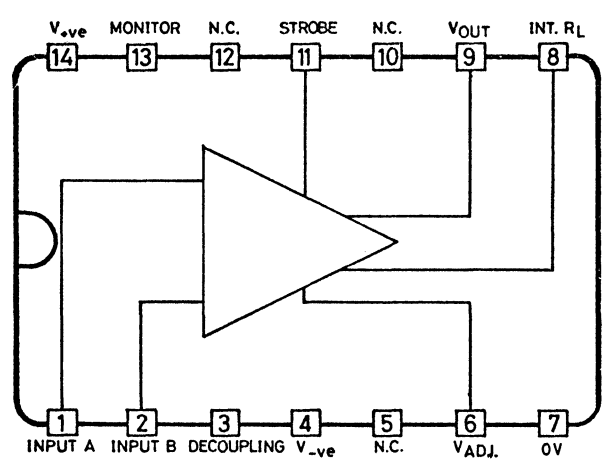
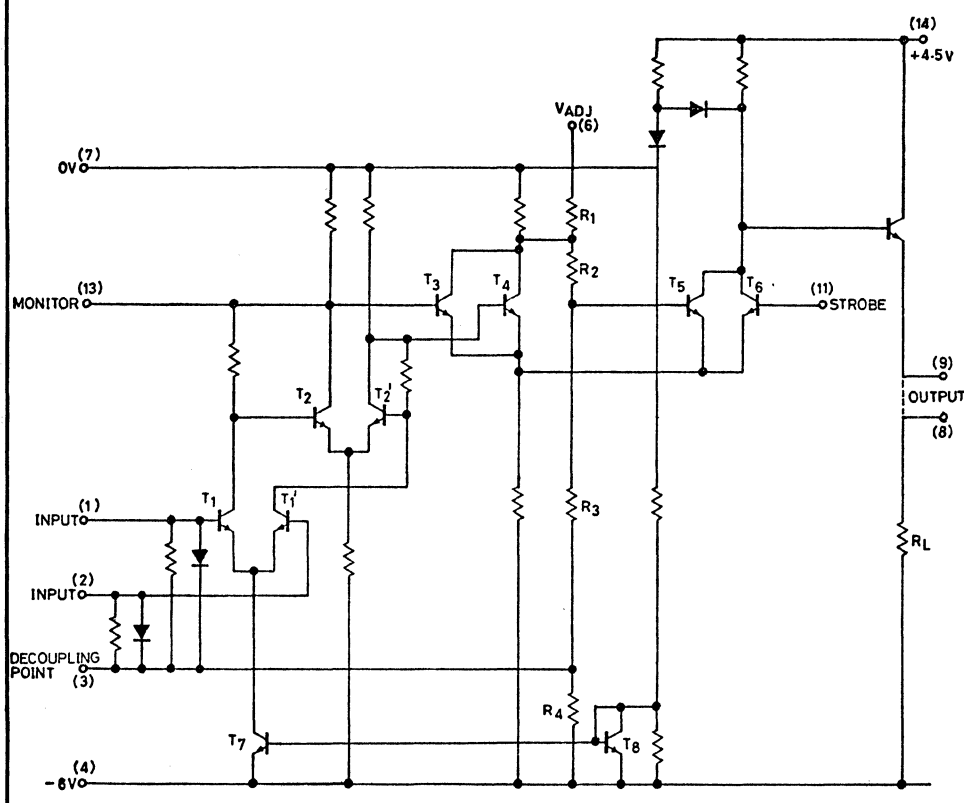
DC27



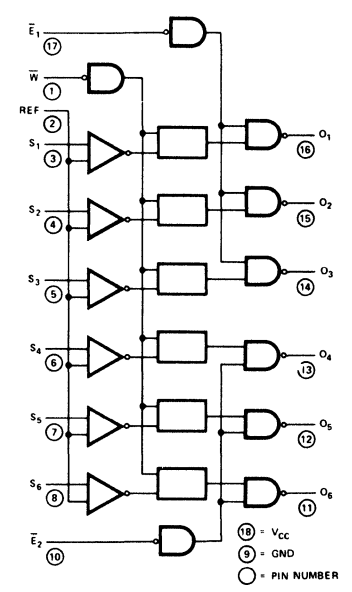
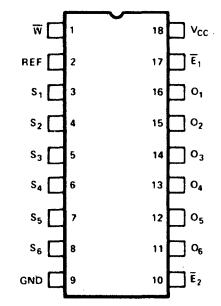
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

DC28



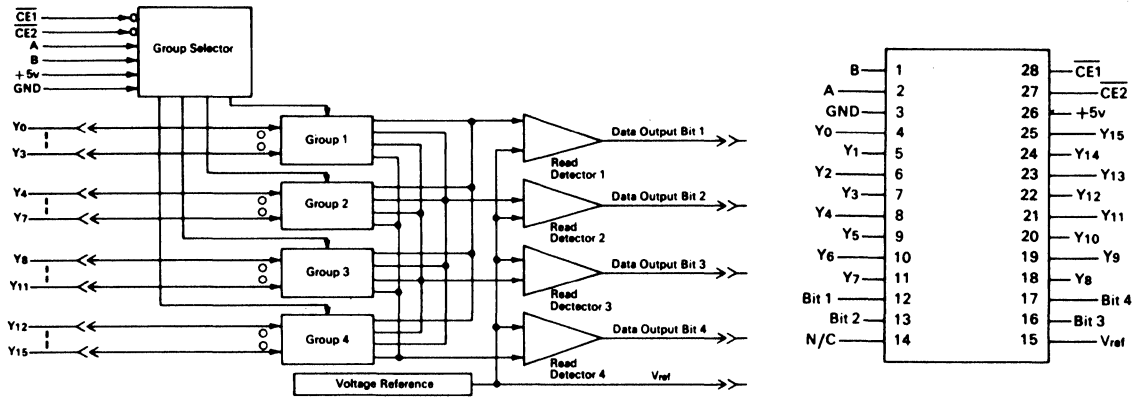
DC29



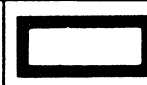
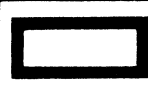
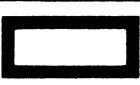
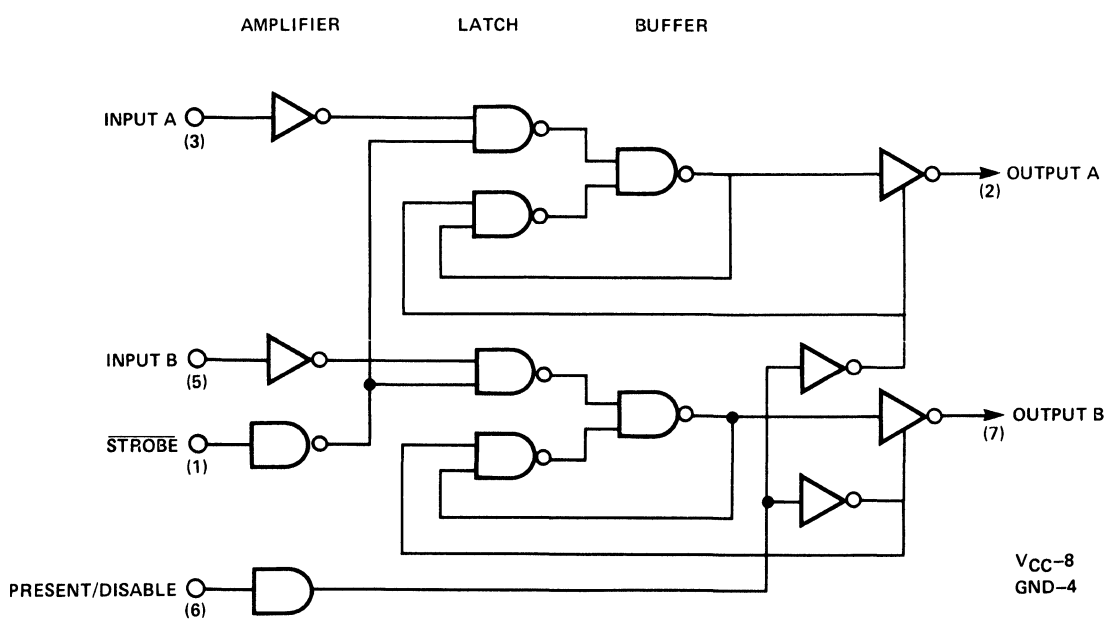
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

DC30



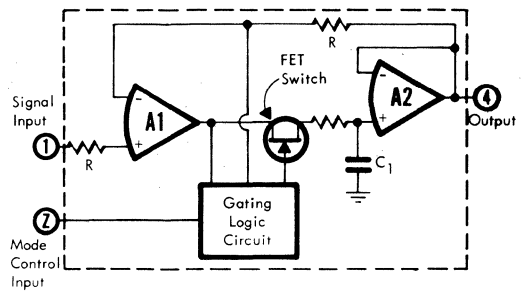
DC31



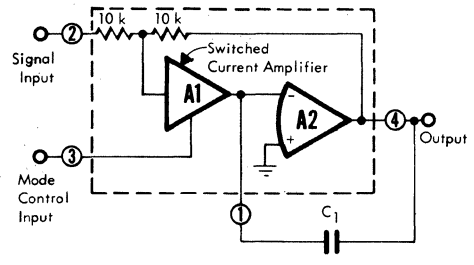
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

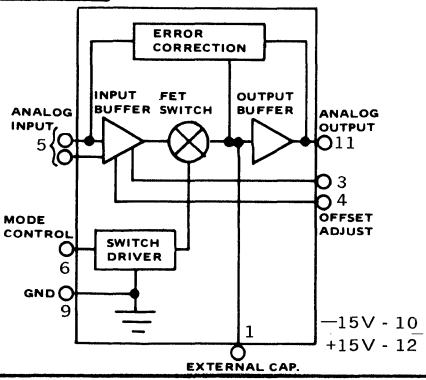
DD1



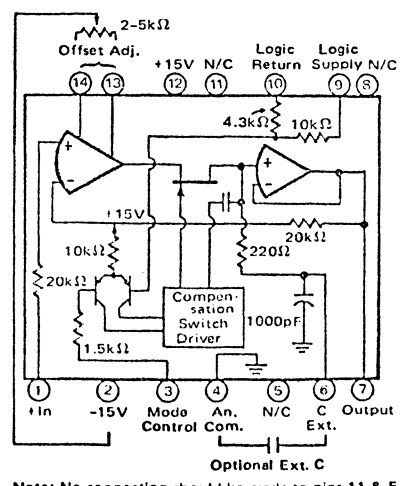
DD2



DD3

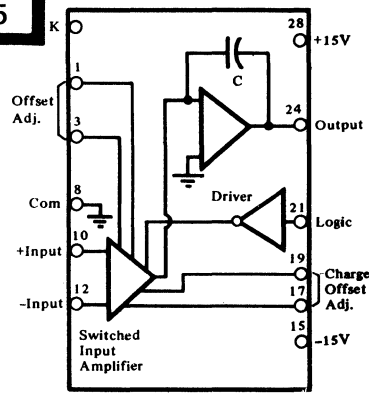


DD4

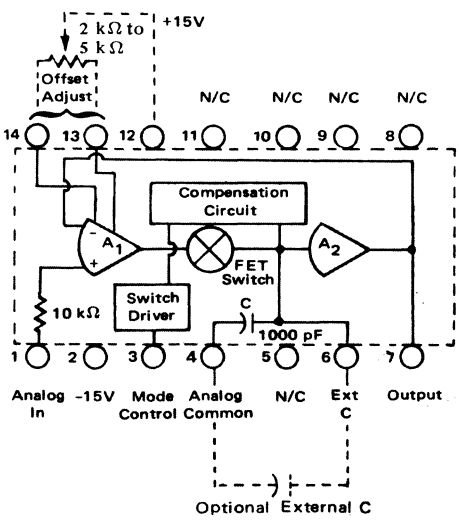


Note: No connection should be made to pins 11 & 5. Pin B is not internally connected.

DD5

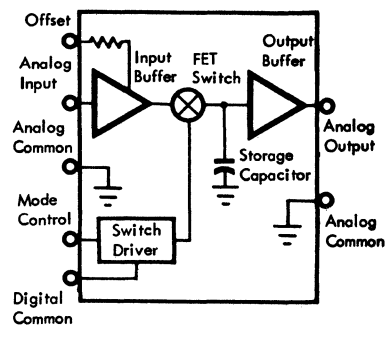


DD6



NOTE: Pins 5, 8, 9, 10 and 11 are not internally connected.

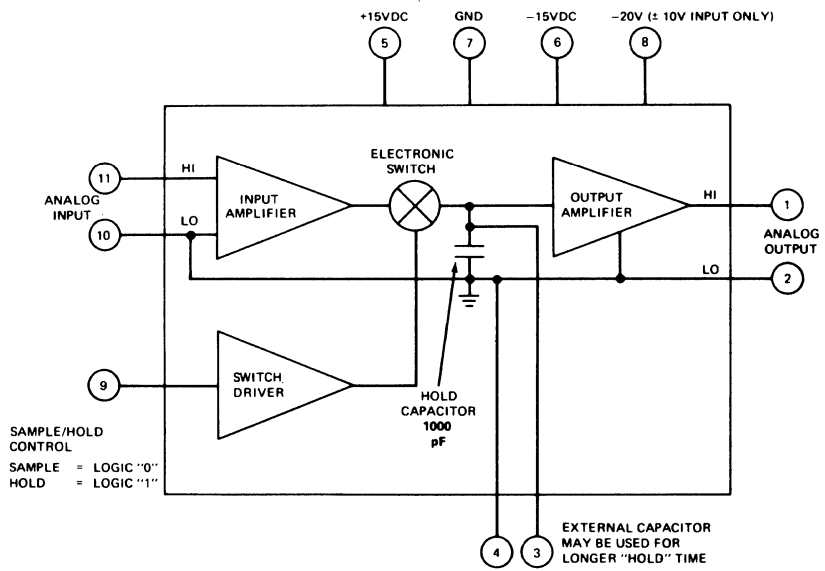
DD7



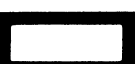
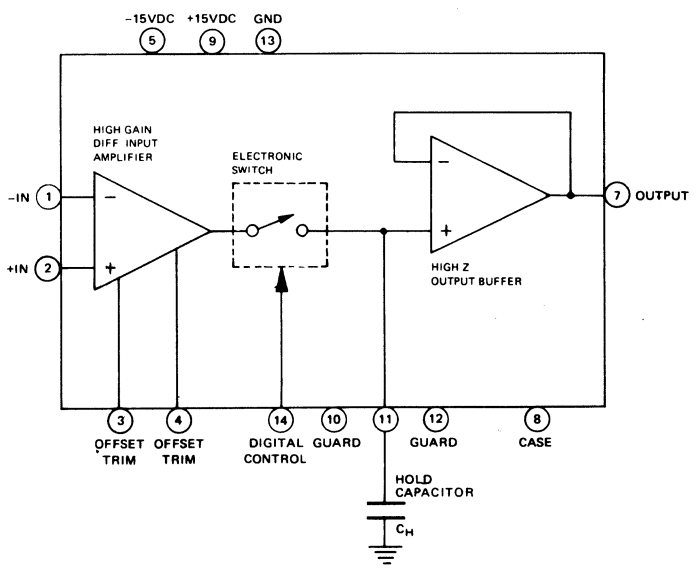
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

DD8



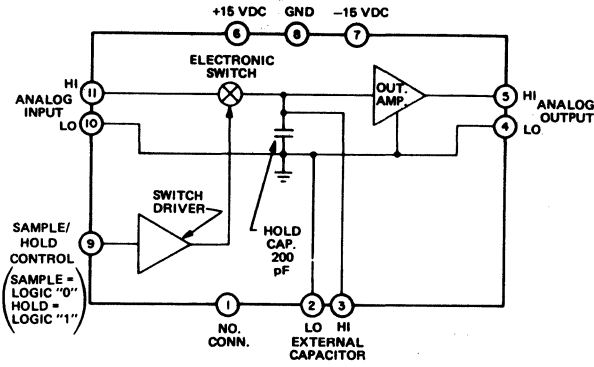
DD9



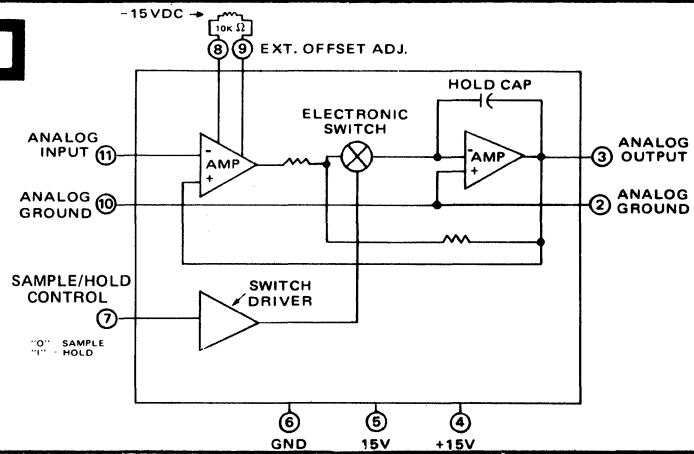
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

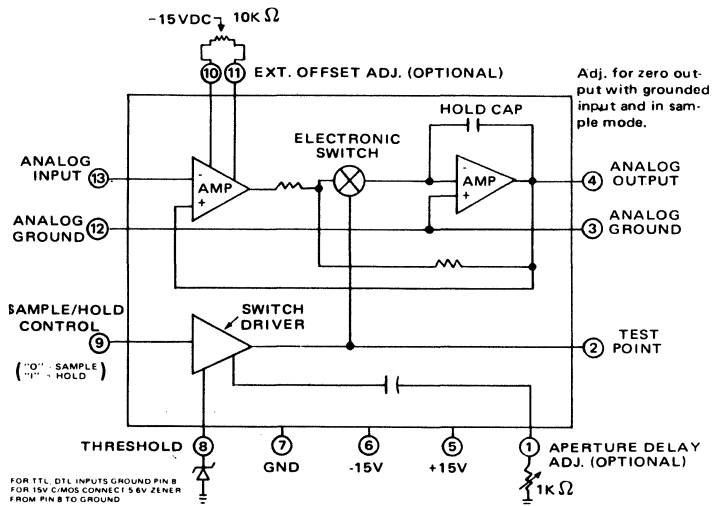
DD10



DD11



DD12



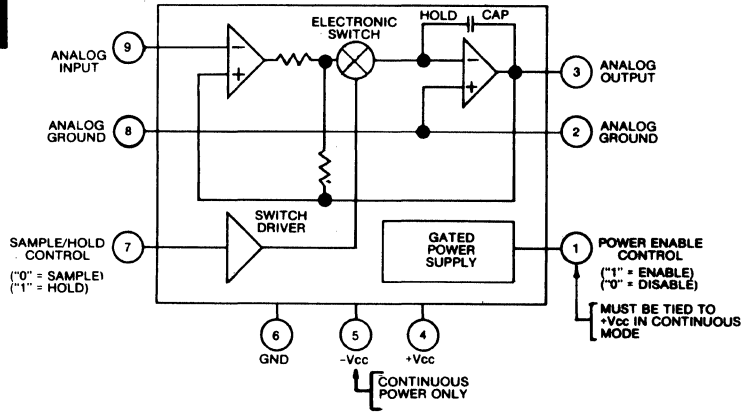
DD13

PIN	FUNCTION
1	SAMPLE CONTROL IN
2	SAMPLE CONTROL END
15	OUTPUT GND
16	OUTPUT
17	NO CONNECTION
18	OFFSET TRIM
19	+ 15V POWER
20	-15V POWER
21	15V GND
31	INPUT GND
32	INPUT

27. LOGIC/BLOCK DRAWINGS

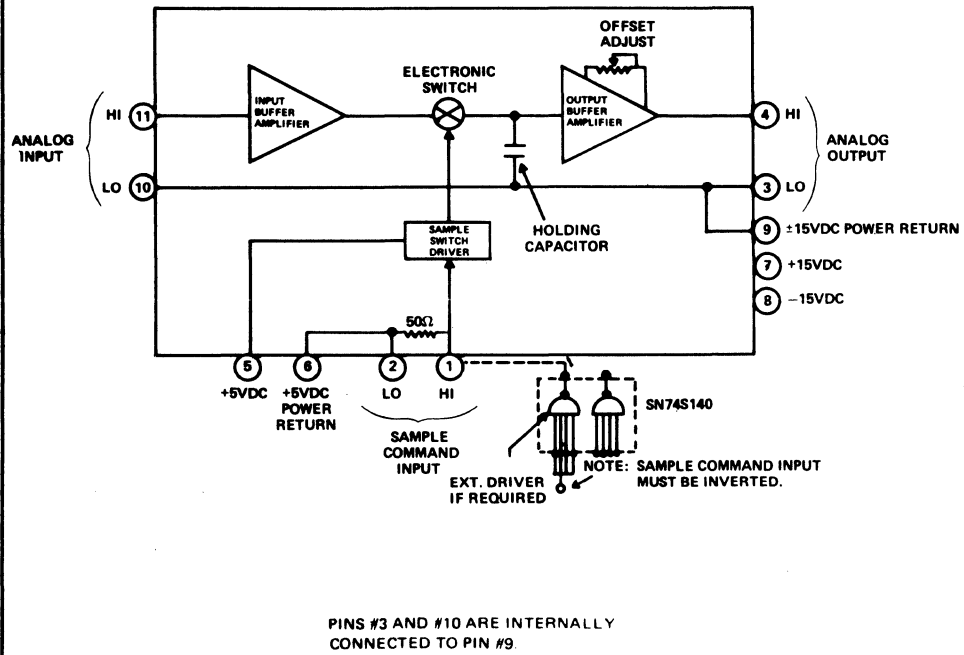
IN DRAWING NUMBER SEQUENCE

DD14

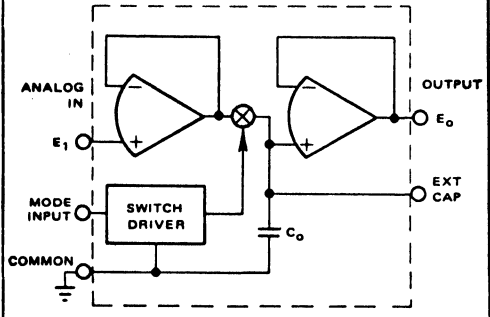


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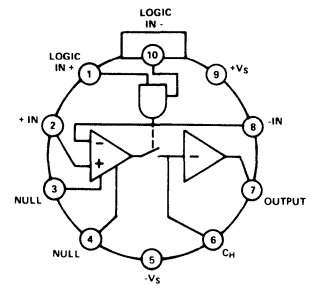
DD15



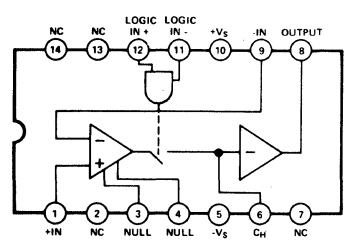
DD16



DD17



DD18



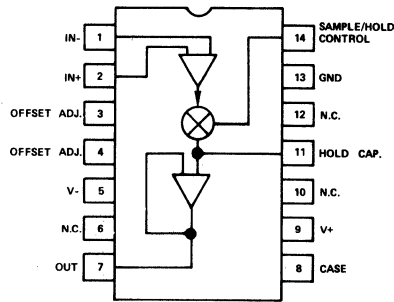
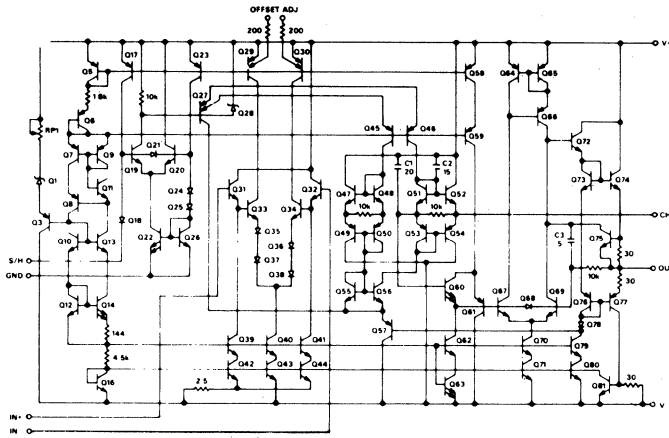
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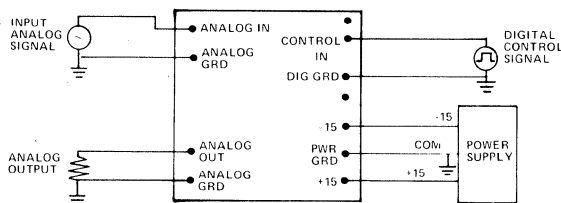
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

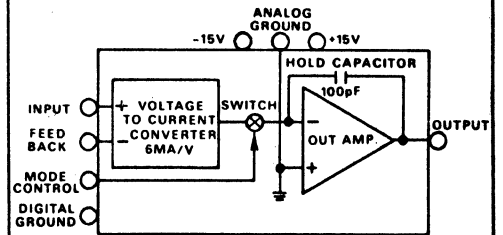
DD19



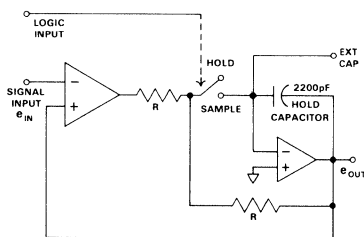
DD20



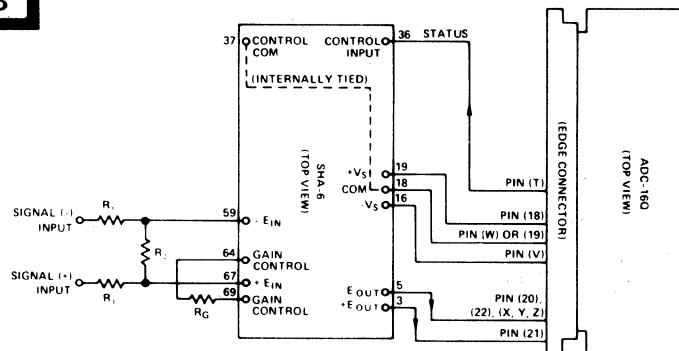
DD21



DD22



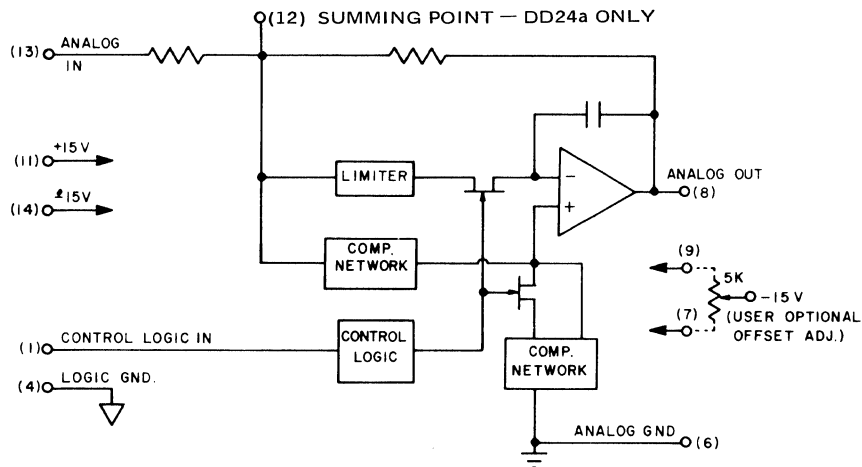
DD23



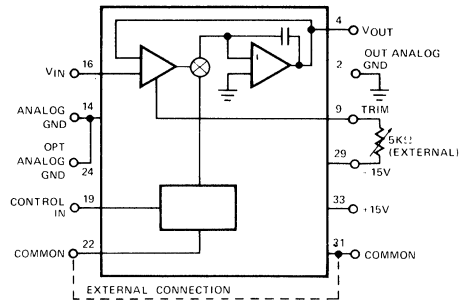
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

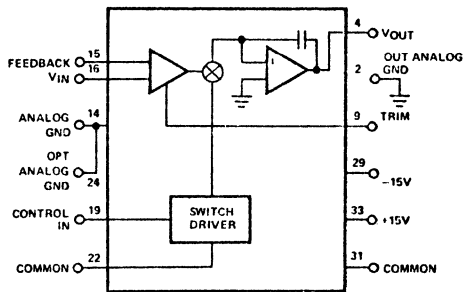
DD24



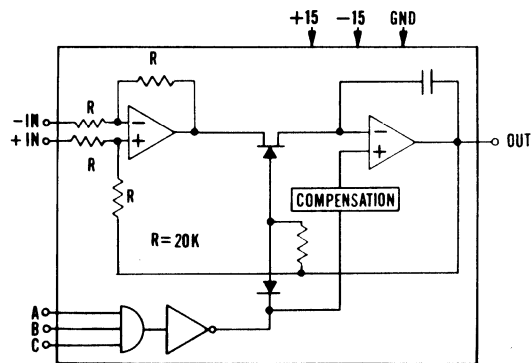
DD25



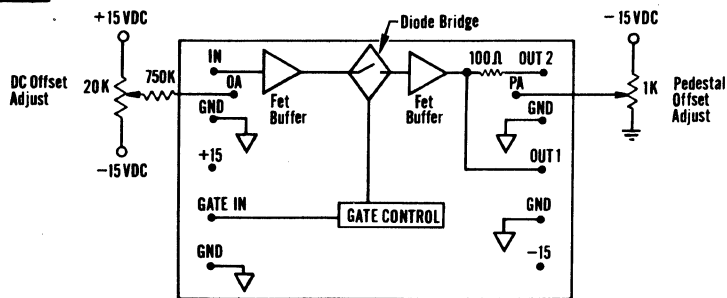
DD26



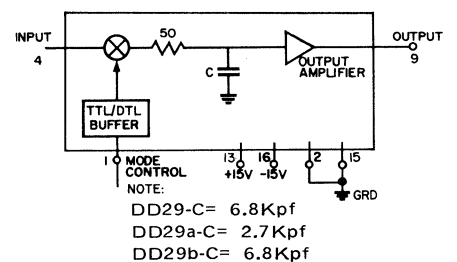
DD27



DD28



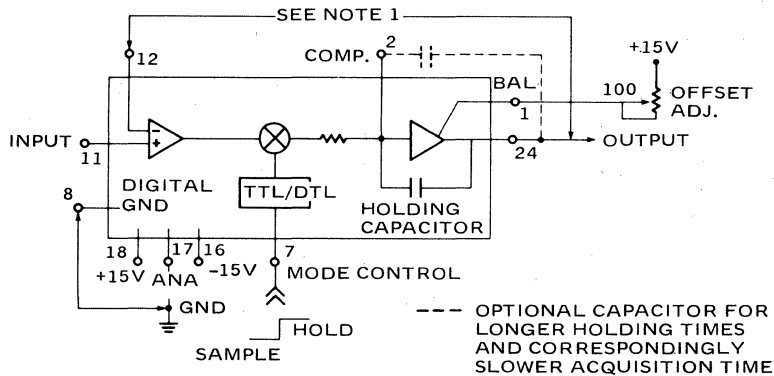
DD29



27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

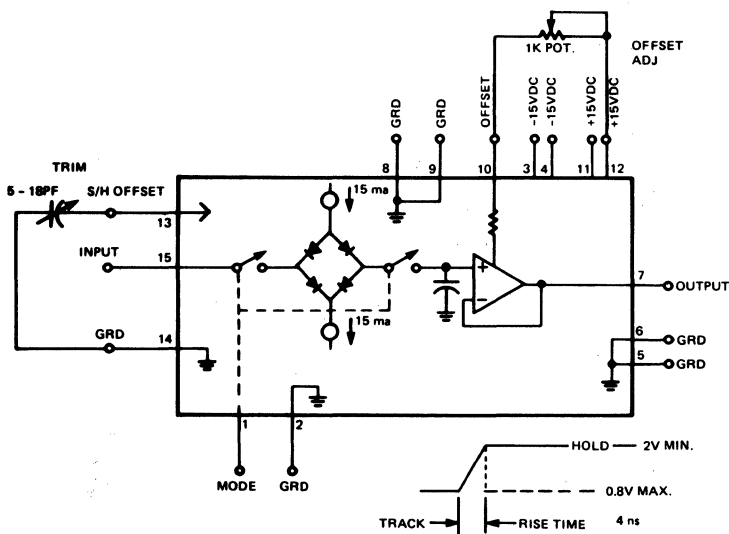
DD30



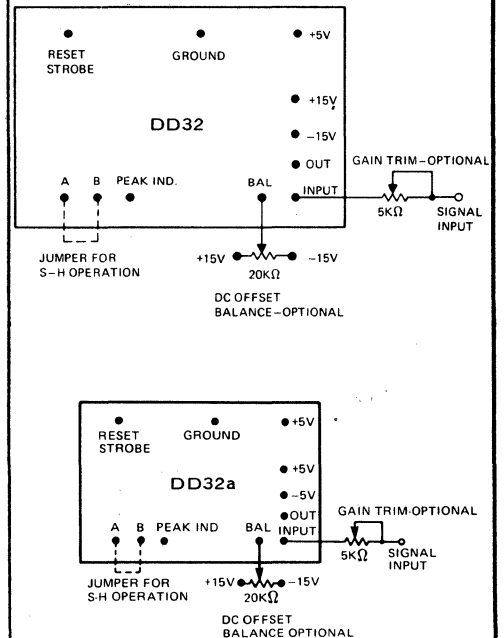
NOTE 1: Connection shown for GAIN = 1

NOTE 2: If external "OFFSET ADJ." potentiometer is not used between pin 1 and +15V, insert a 50 ohm resistor between these points.

DD31



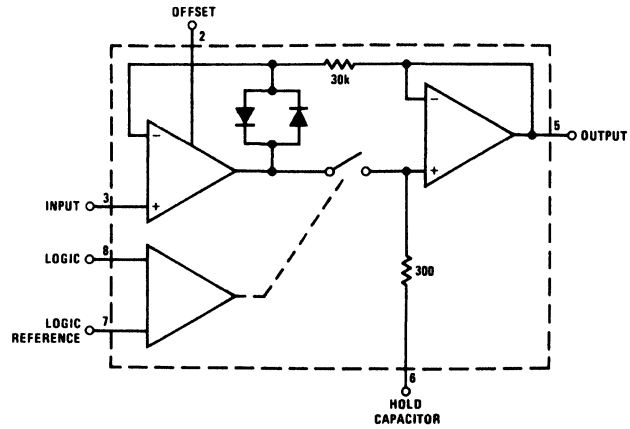
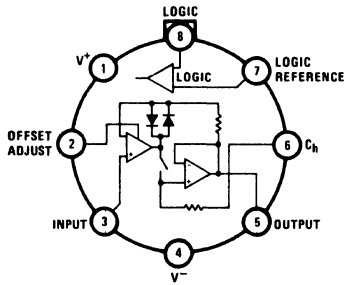
DD32



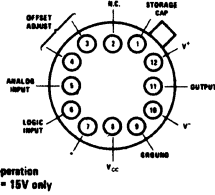
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

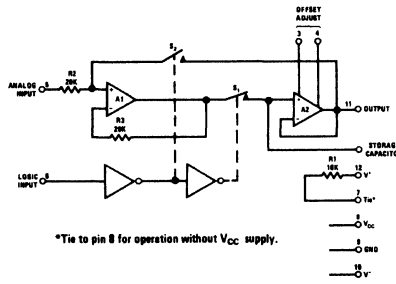
DD33



DD34

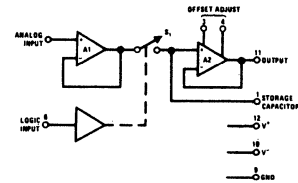
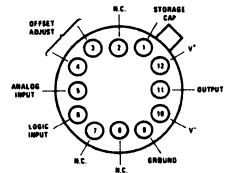


*Tie for operation with V⁺ = 15V only

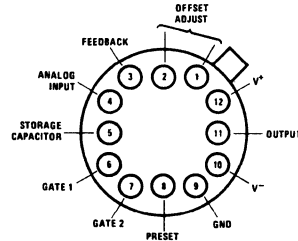
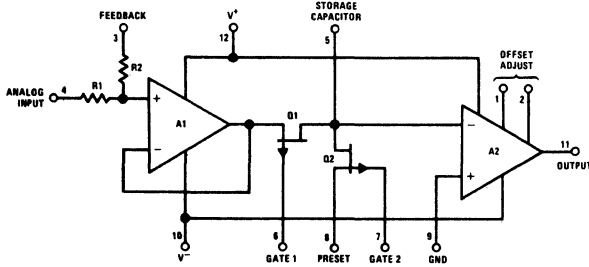


*Tie to pin 8 for operation without V_{CC} supply.

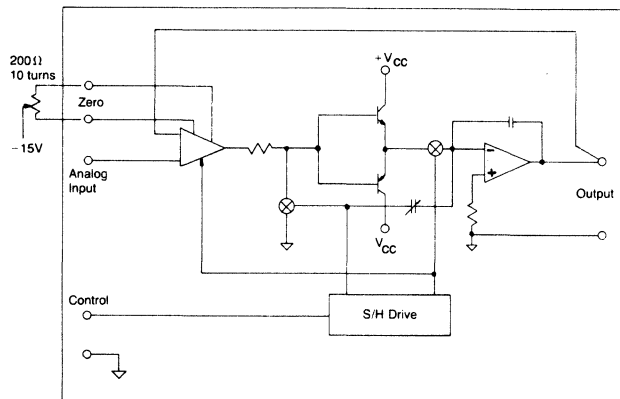
DD35



DD36



DD37



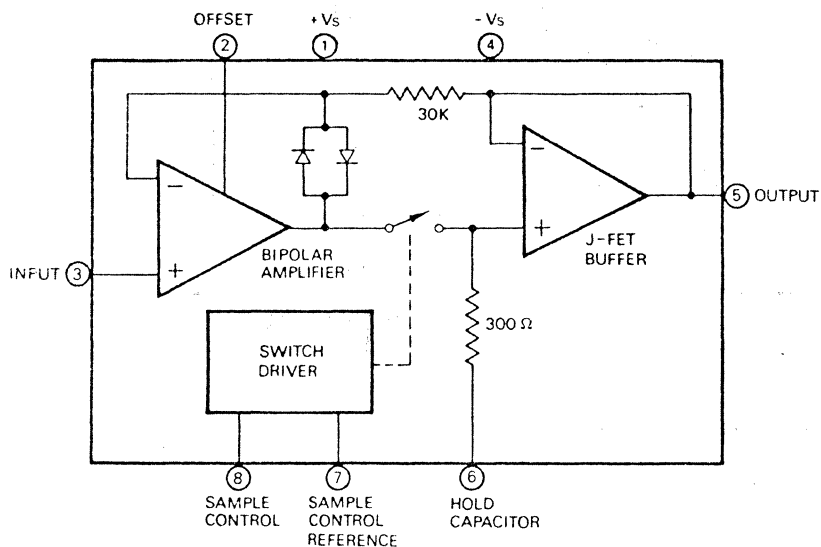
Pin Function

- A No Connection
- B Control Return
- C Control
- D Analog Input
- E Offset Adj
- F Offset Adj
- G No Connection
- H Output Return
- J Output
- K Analog Return
- L -15V
- M +15V

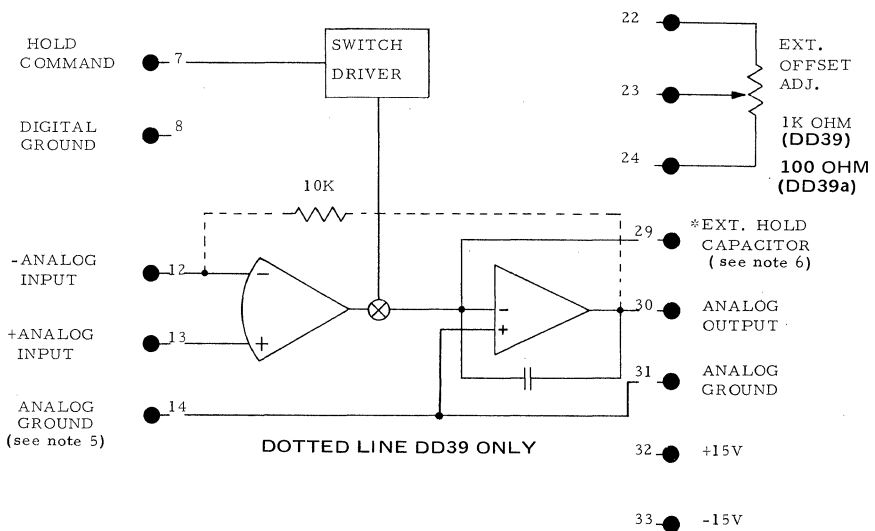
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

DD38



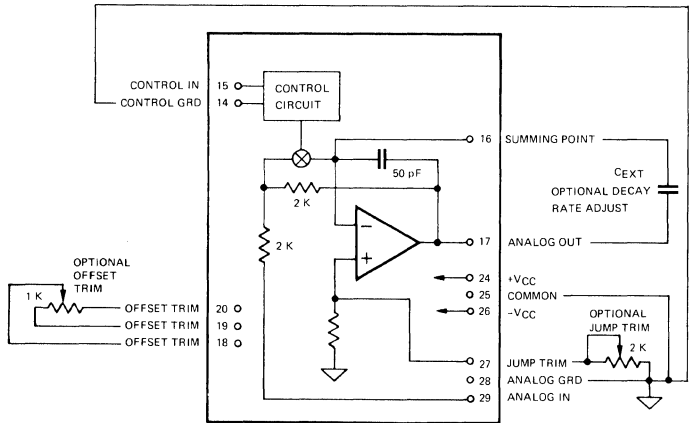
DD39



27. LOGIC/BLOCK DRAWINGS

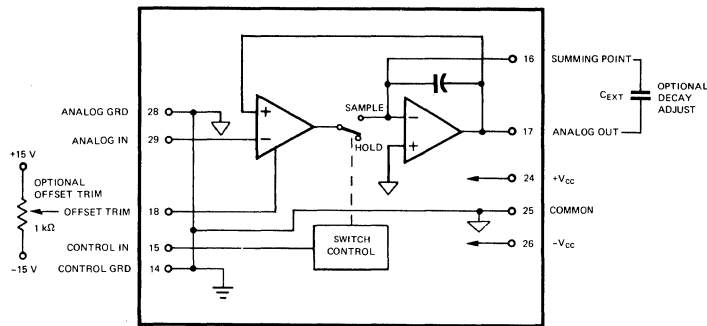
IN DRAWING NUMBER
SEQUENCE

DD40

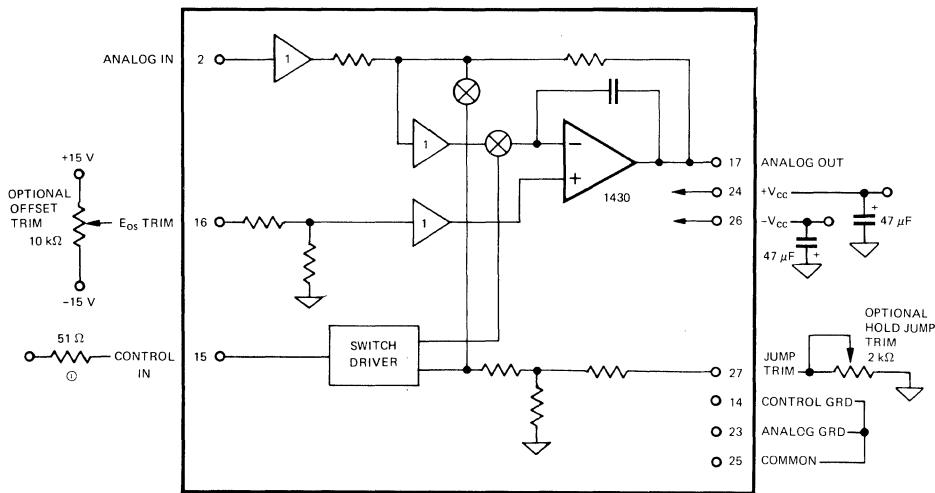


NOTE: ALL GROUNDS MUST BE EXTERNALLY CONNECTED

DD41



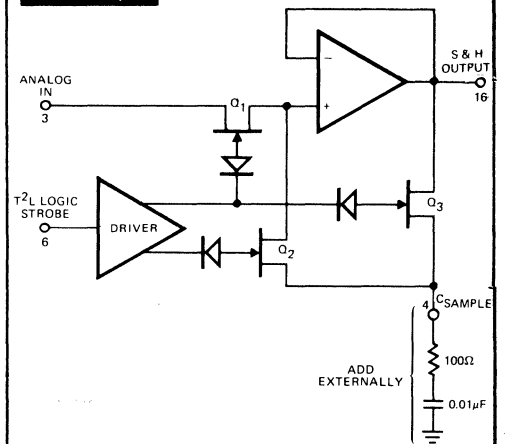
DD42



© THIS RESISTOR IS RECOMMENDED TO BUFFER THE CONTROL INPUT FROM THE EFFECTS OF LINE PARASITICS.

NOTE: CONTROL GRD, ANALOG GRD, AND COMMON MUST BE EXTERNALLY CONNECTED

DD45

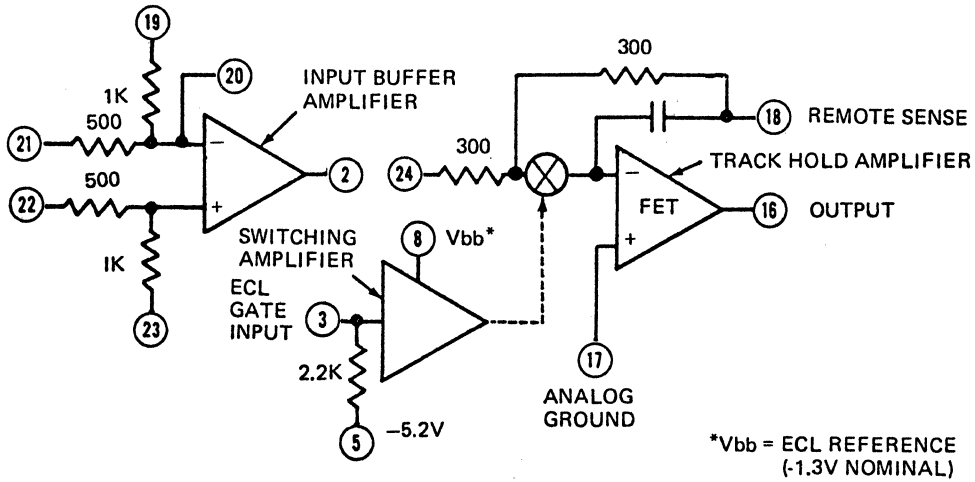


N.C.	1	16	S & H OUTPUT
N.C.	2	15	N.C.
ANALOG IN	3	14	OFFSET TRIM
C _{SAMPLE}	4	13	N.C.
N.C.	5	12	OFFSET TRIM
LOGIC STROBE	6	11	+15V
+5V	7	10	N.C.
GND	8	9	-15V

27. LOGIC/BLOCK DRAWINGS

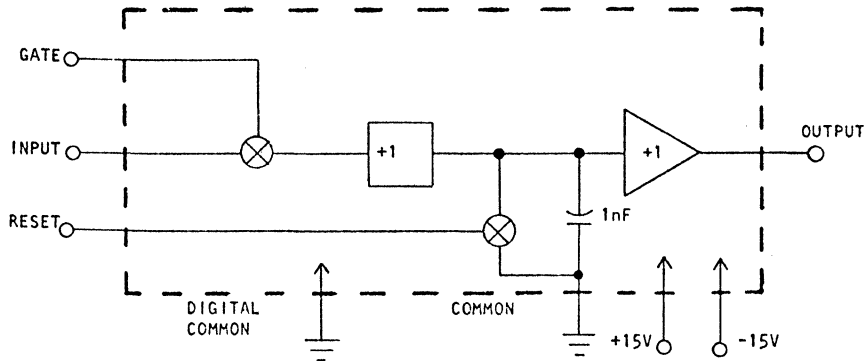
IN DRAWING NUMBER
SEQUENCE

DD46

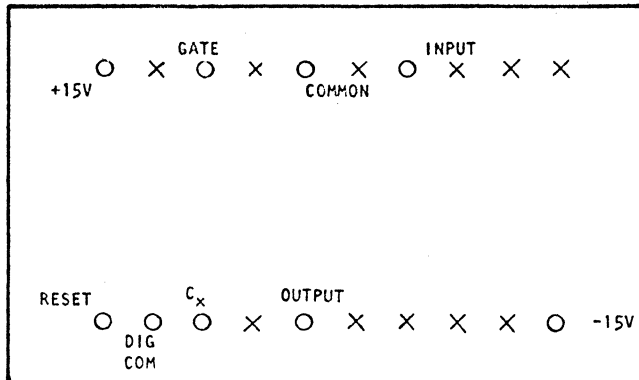


V_{bb} SHOULD COME FROM SAME LOGIC TYPE USED TO DRIVE THE GATE INPUT.

DD47



TOP VIEW

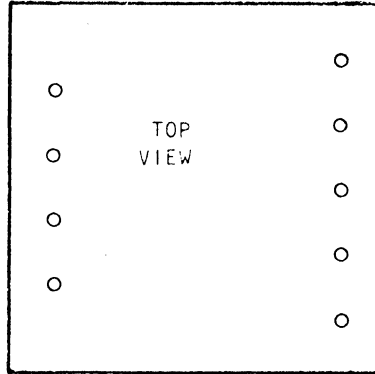


27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

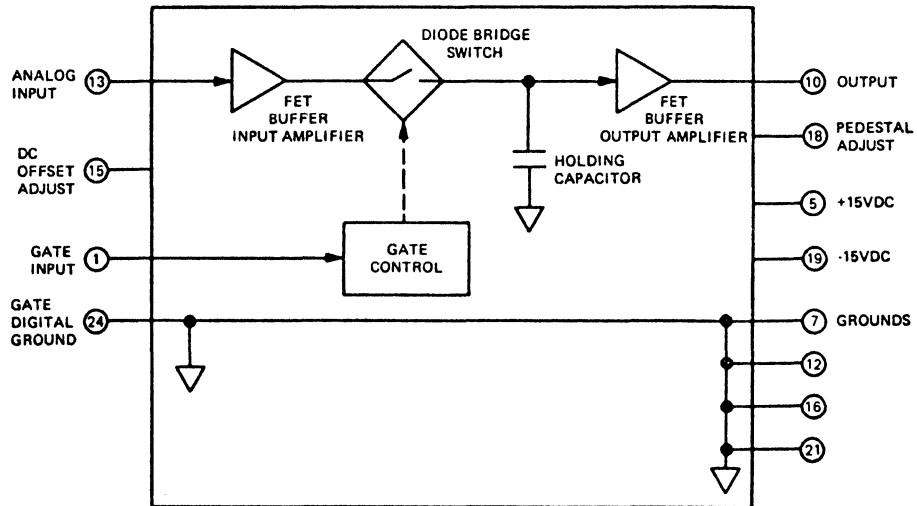
DD48

RESET
INPUT
EXTERNAL CAPACITOR
GATE



○ OUTPUT OFFSET
○ OUTPUT
○ -15 VOLT SUPPLY
○ COMMON
○ +15 VOLT SUPPLY

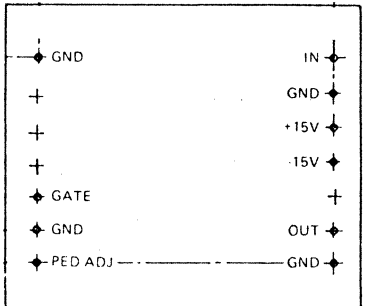
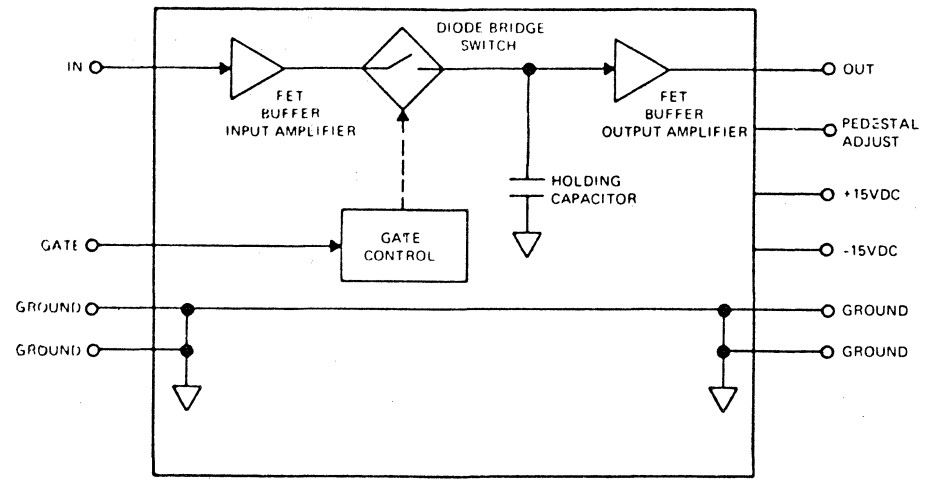
DD49



27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

DD50

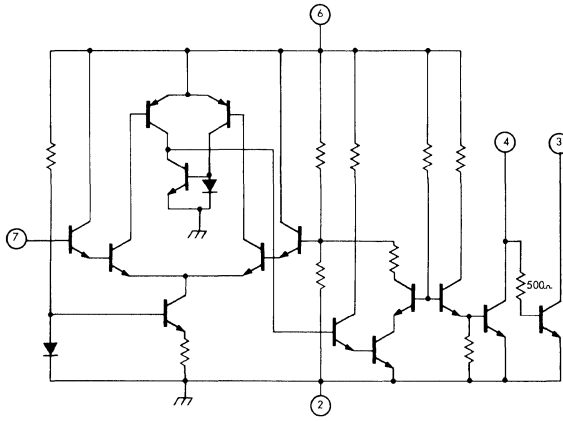
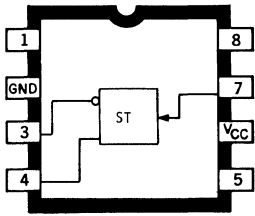


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<div style="border: 2px solid black; width: 80px; height: 25px; margin-bottom: 10px;"></div>	<div style="border: 2px solid black; width: 80px; height: 25px; margin-bottom: 10px;"></div>	<div style="border: 2px solid black; width: 80px; height: 25px; margin-bottom: 10px;"></div>

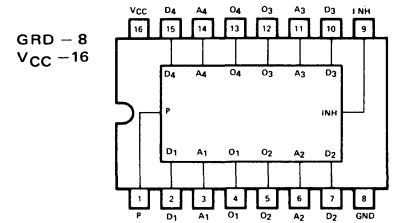
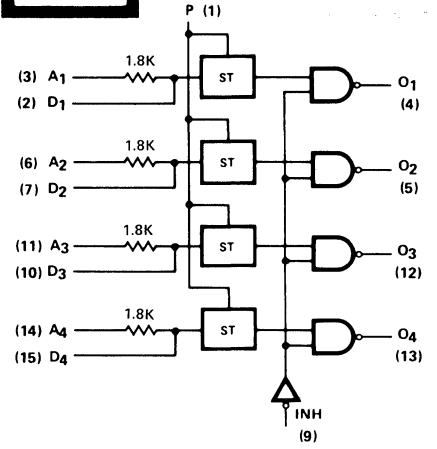
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

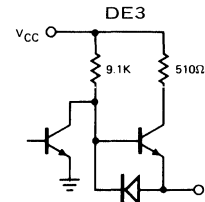
DE1



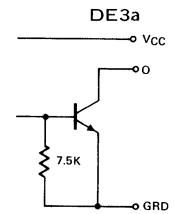
DE3



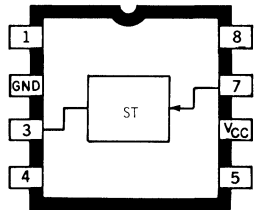
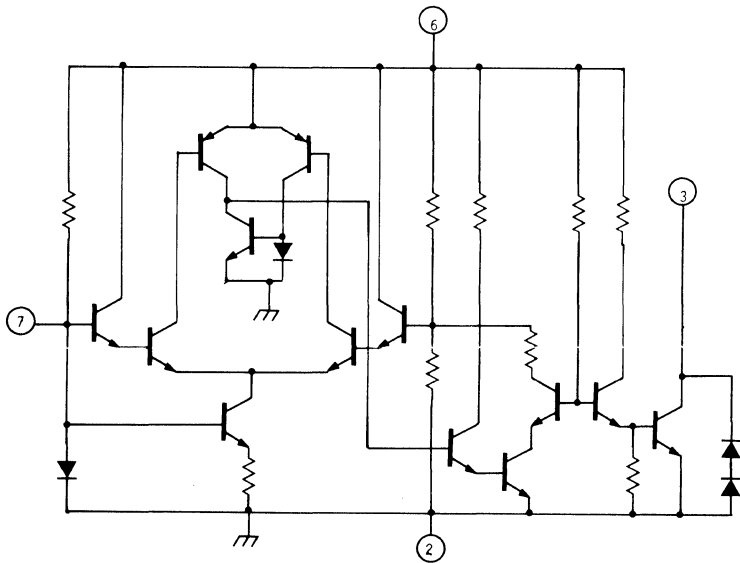
TYPICAL OUTPUT



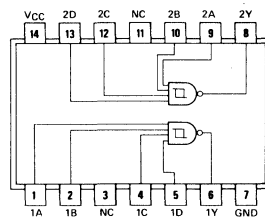
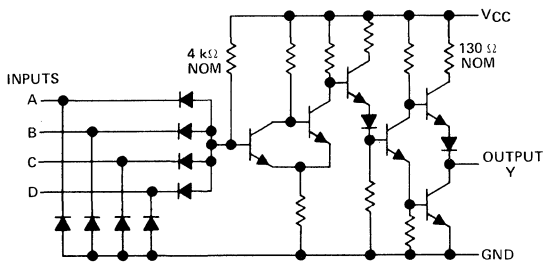
TYPICAL OUTPUT



DE2



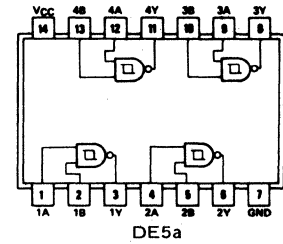
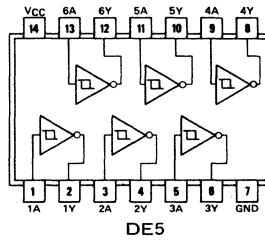
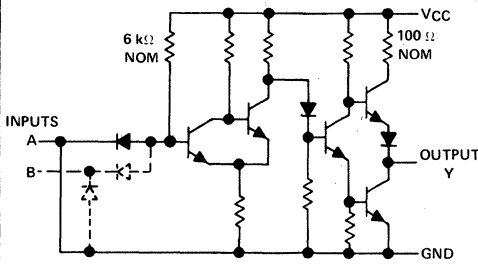
DE4



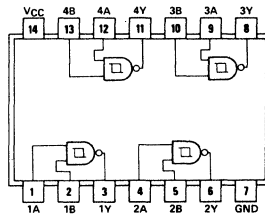
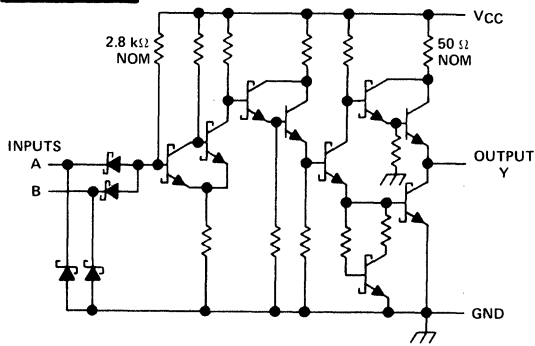
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

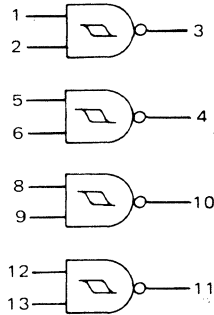
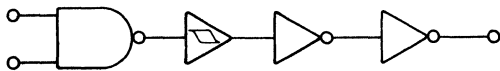
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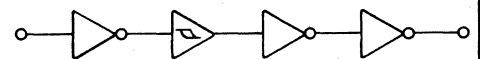
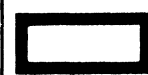
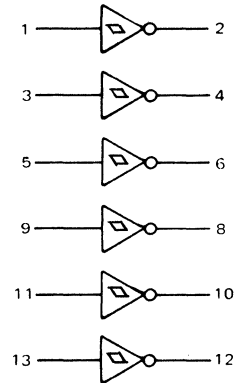
DE6



DE7



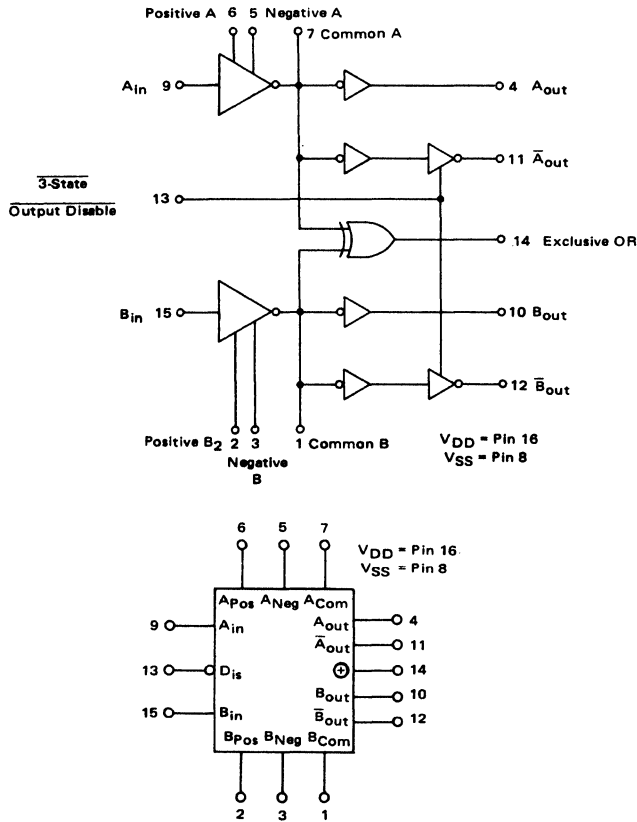
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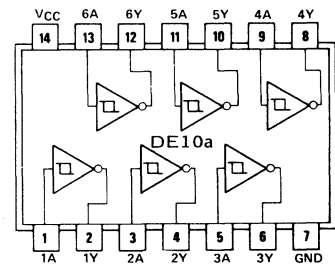
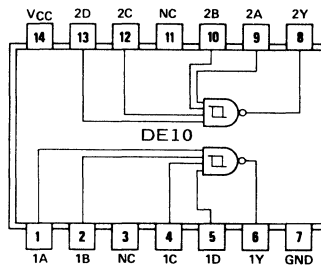
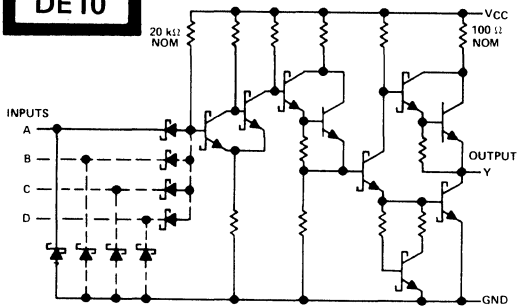
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

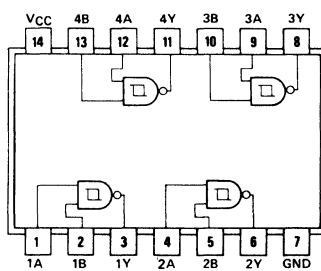
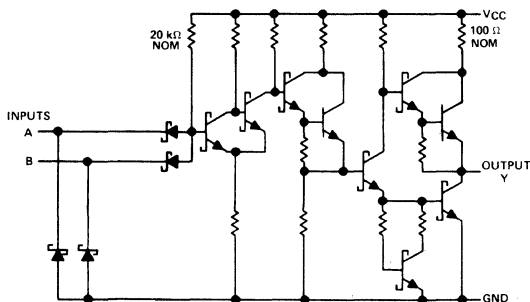
DE9



DE10



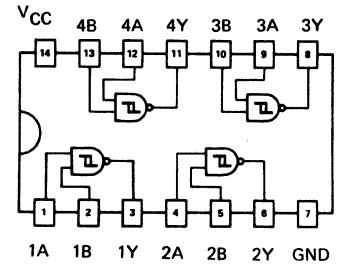
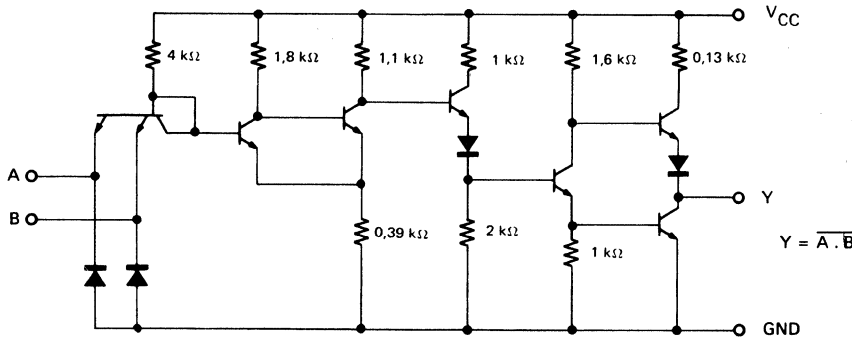
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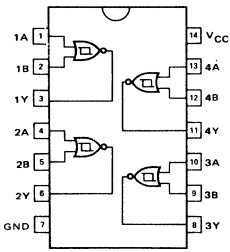
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

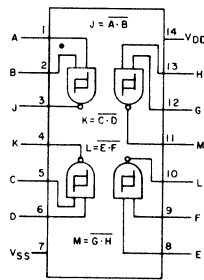
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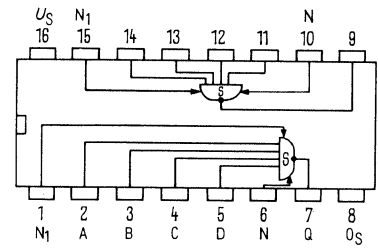
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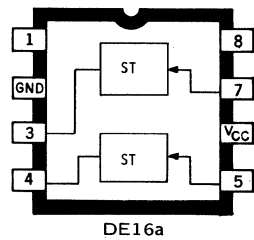
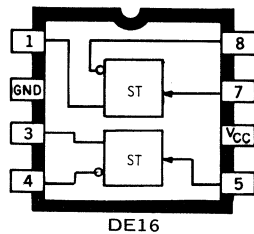
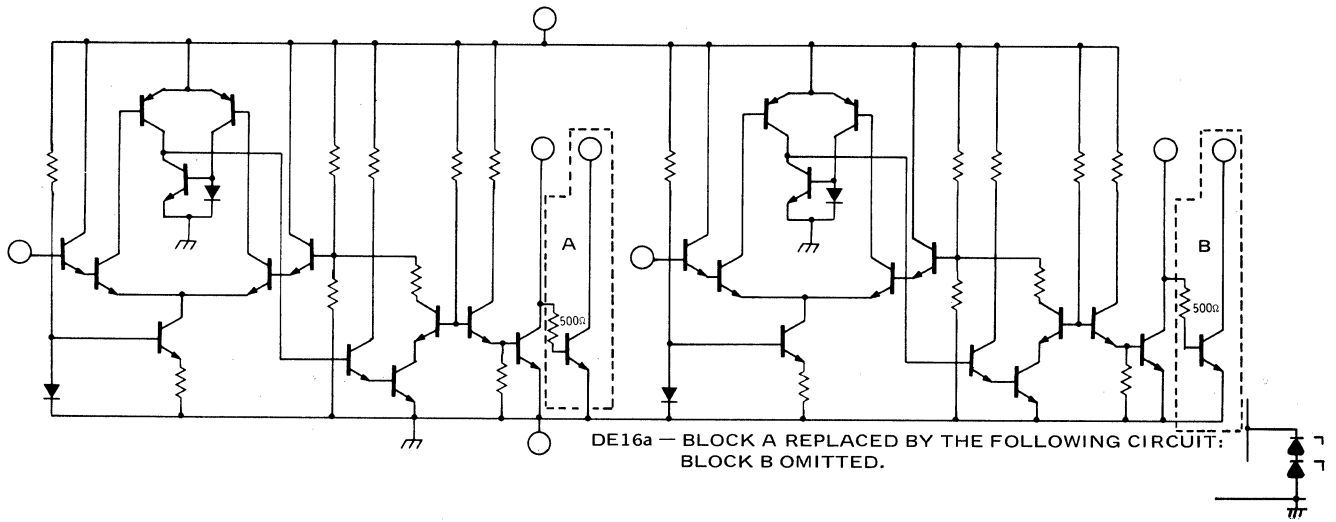
DE14



DE15



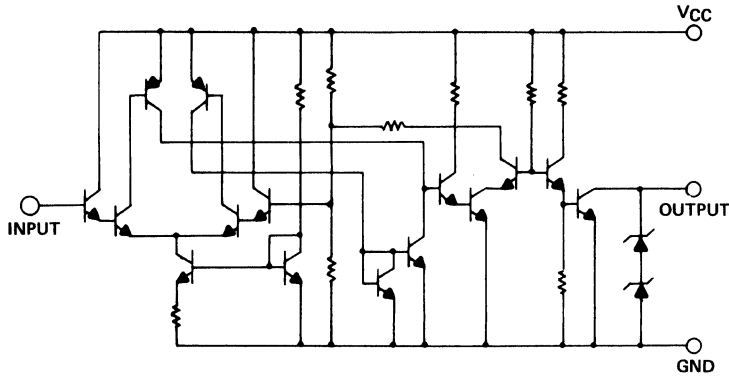
DE16



27. LOGIC/BLOCK DRAWINGS

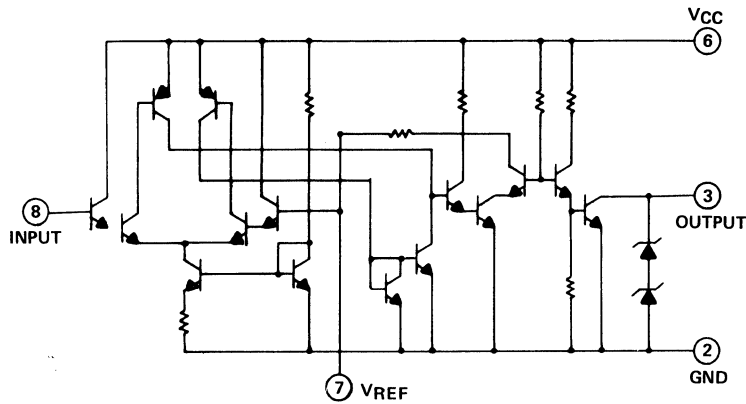
IN DRAWING NUMBER
SEQUENCE

DE17

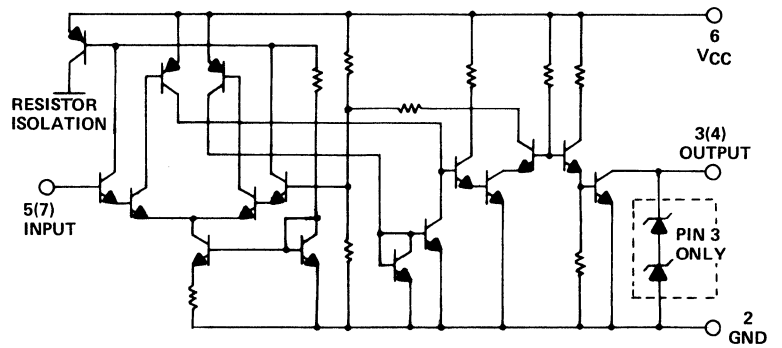


	INPUT	OUTPUT	Vcc	Gnd
DE17	3	1	2	4
DE17a	7	3	6	2

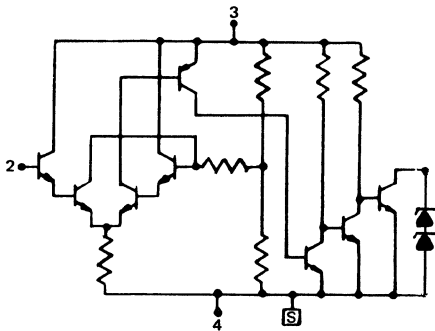
DE18



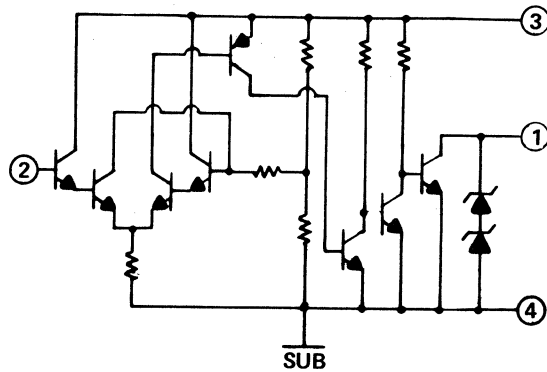
DE19



DE20



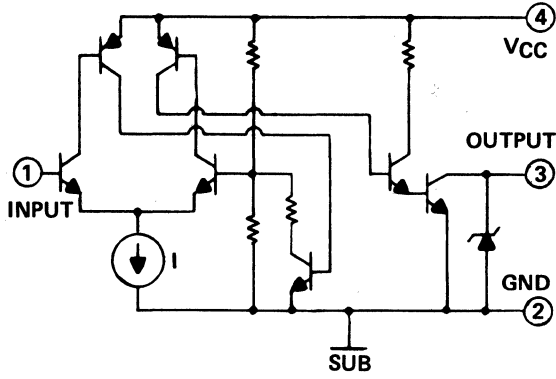
DE22



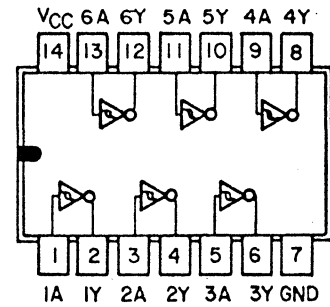
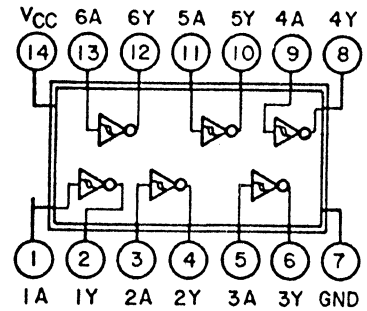
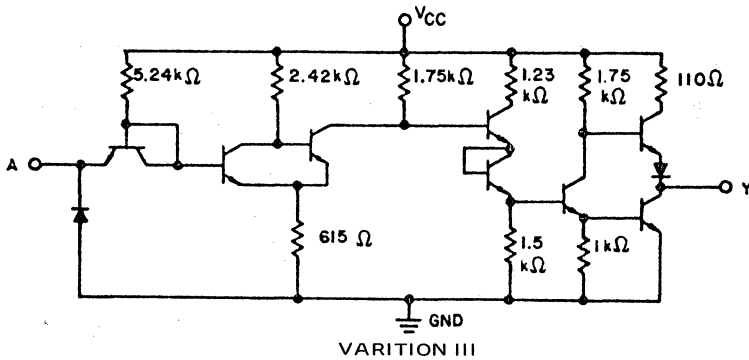
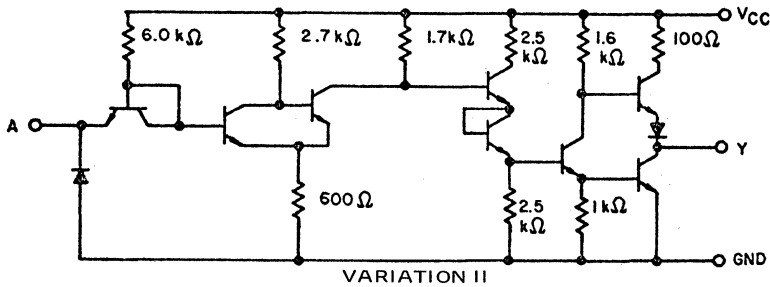
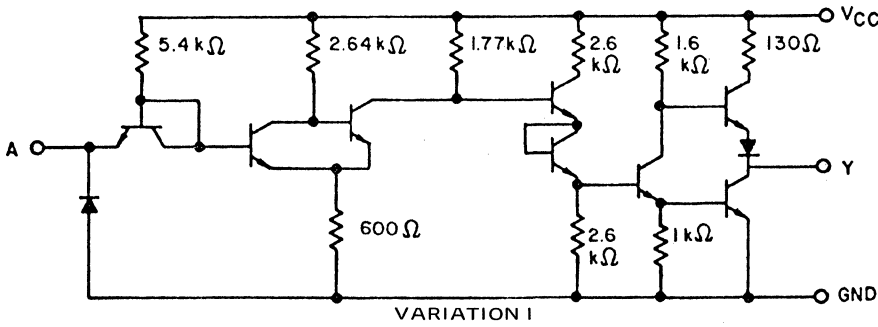
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

DE23



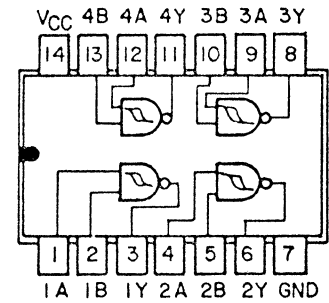
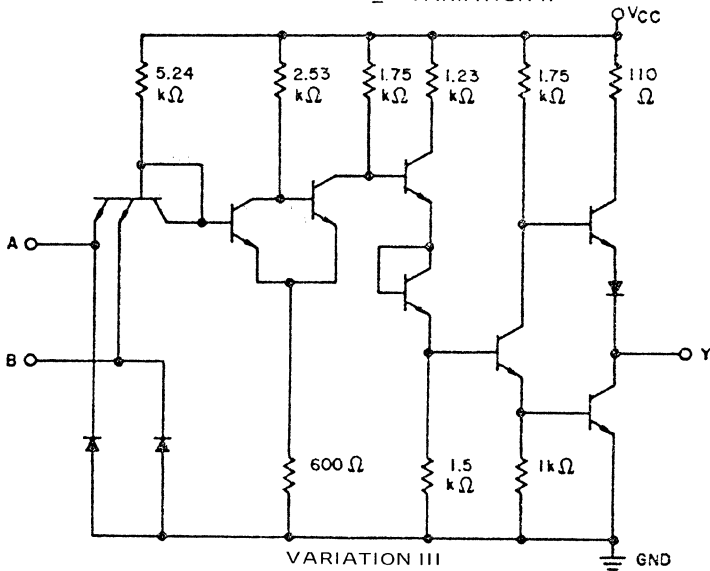
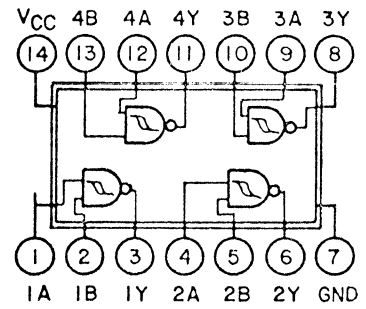
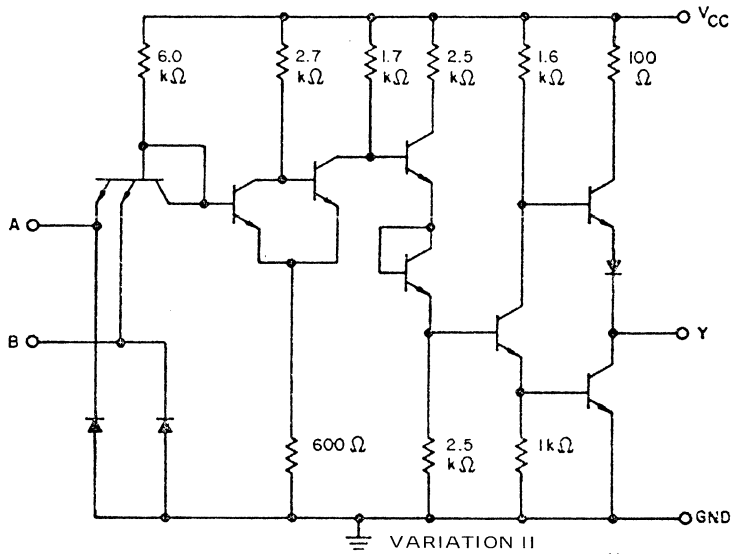
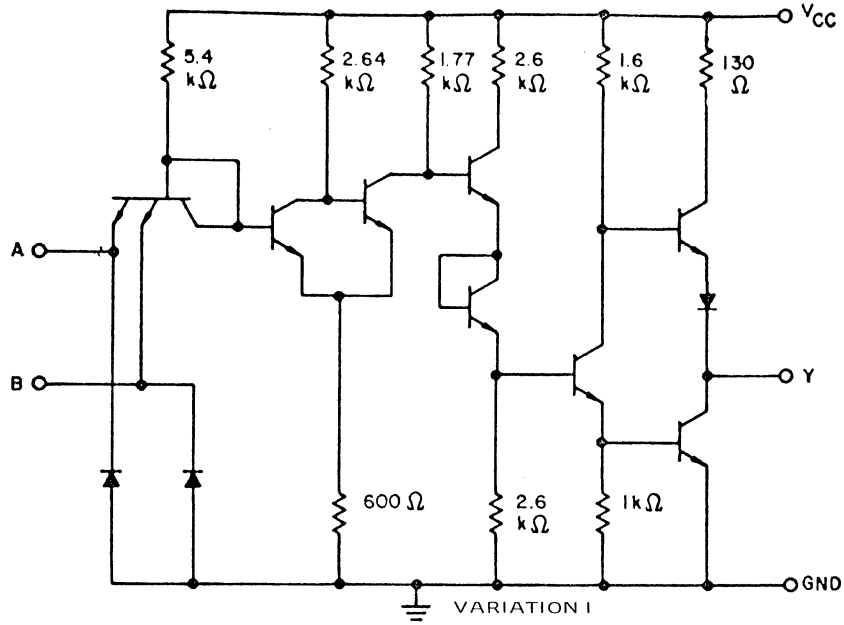
DE24



27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

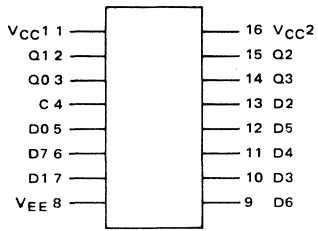
DE25



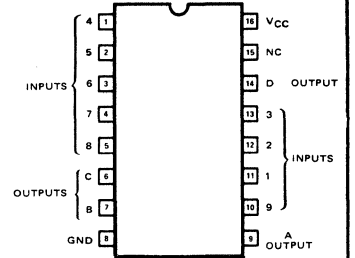
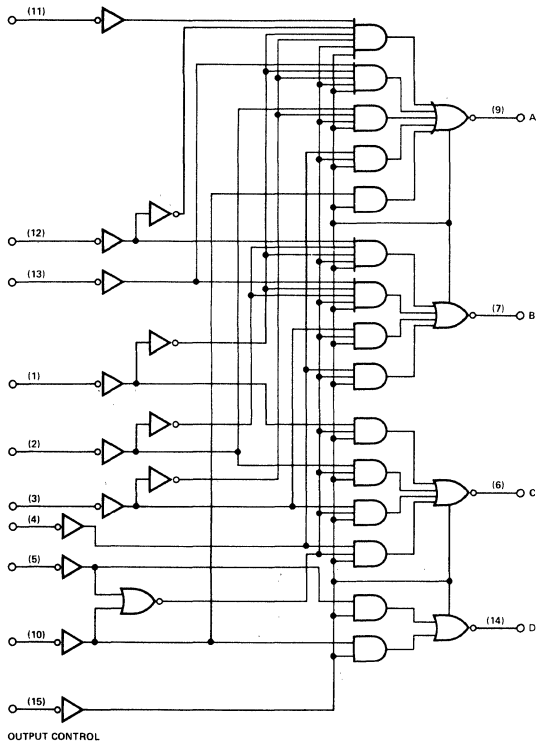
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

E1-1



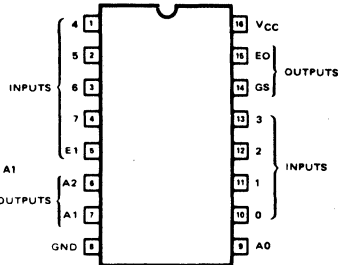
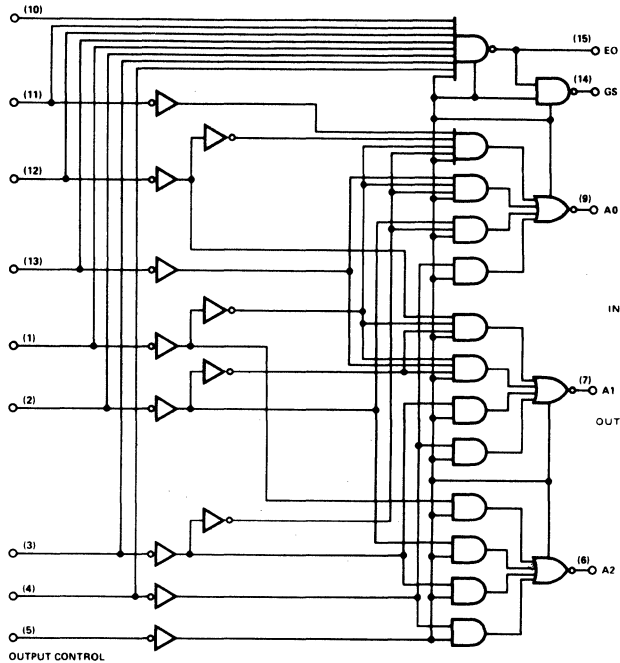
E1-2



NC - no internal connection

Pin (16) = V_{CC}, Pin (8) - GND
Pin (15) = No connection

E1-3

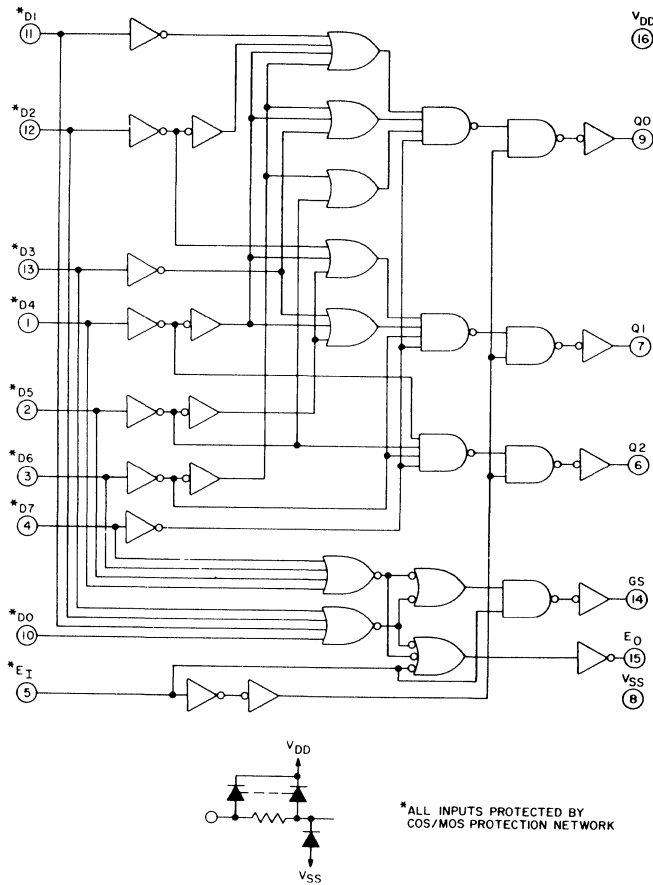


Pin (16) = V_{CC}, pin (8) = GND

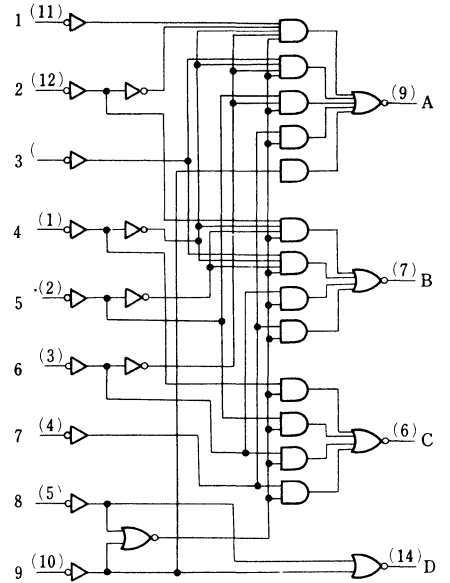
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

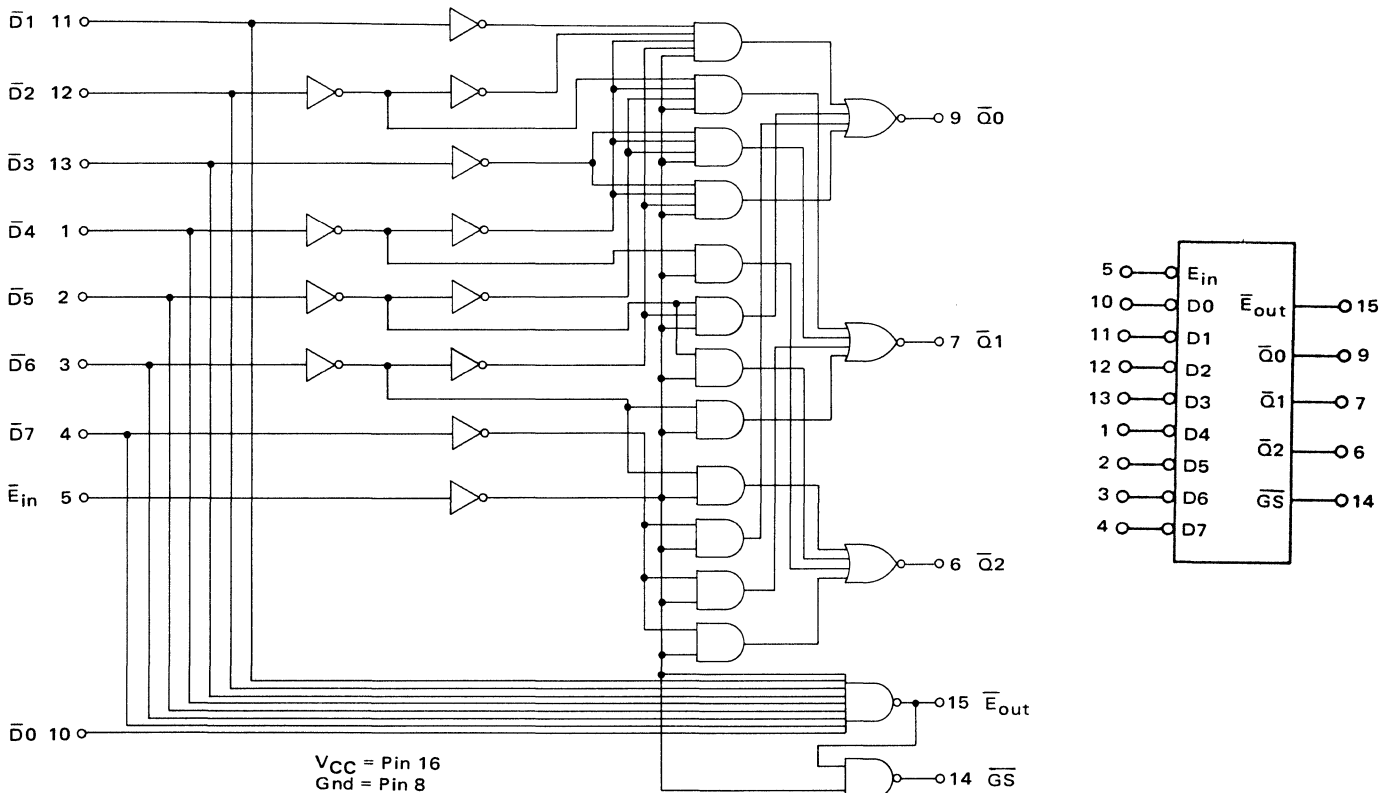
E1-4



E1-5



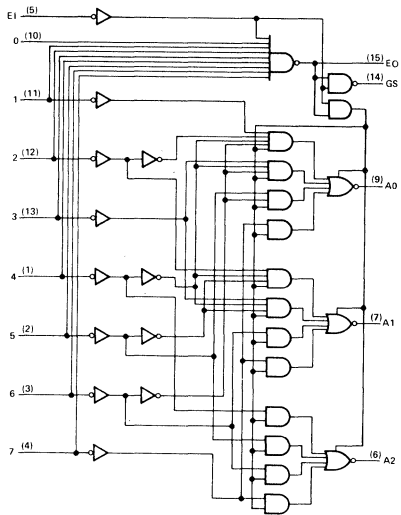
E1-6



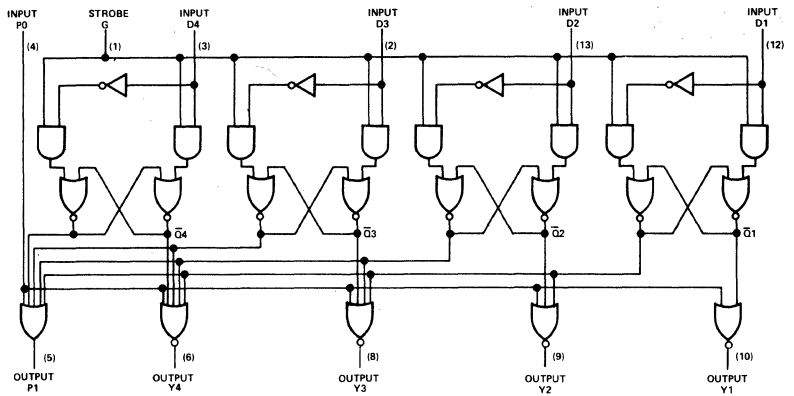
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

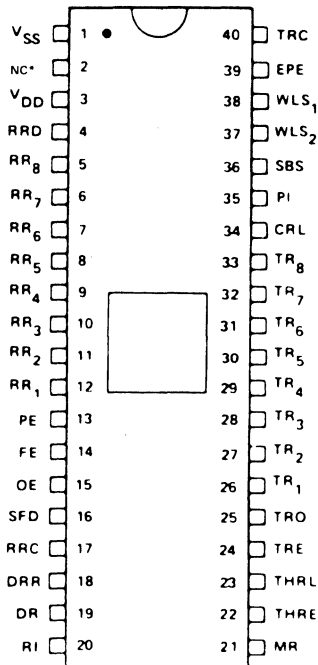
E1-7



E1-8



E2-1



E2-2

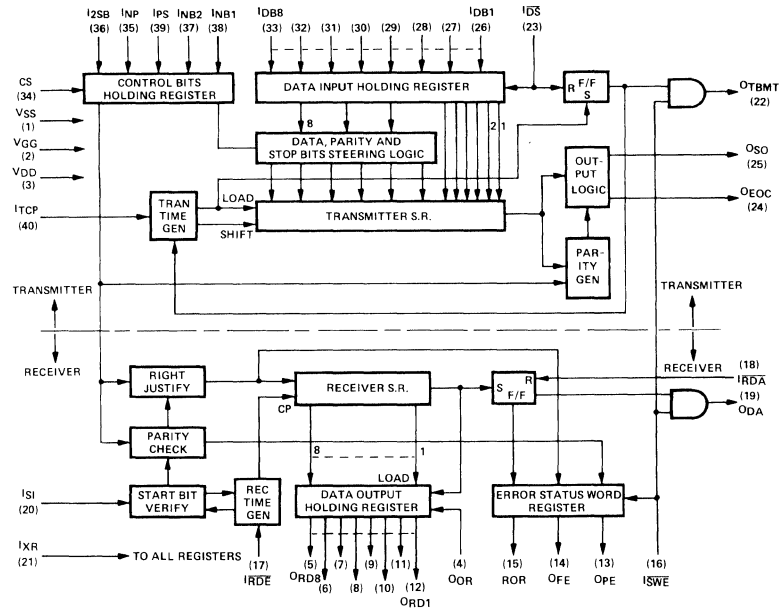
VBB	1	40	VDD
TACKT	2	39	RE
CS	3	38	RTS
WE	4	37	TDATA
TACKO	5	36	CTS
RPLY	6	35	TXTC
INTR	7	34	TXRC
DAL0	8	33	R4
DAL1	9	32	R3
DAL2	10	31	R2
DAL3	11	30	R1
DAL4	12	29	CARR
DAL5	13	28	DSR
DAL6	14	27	RDATA
DAL7	15	26	TD3
DTR	16	25	TD4
TD7	17	24	TD5
RING	18	23	MR
MISC	19	22	TD6
VSS	20	21	VCC



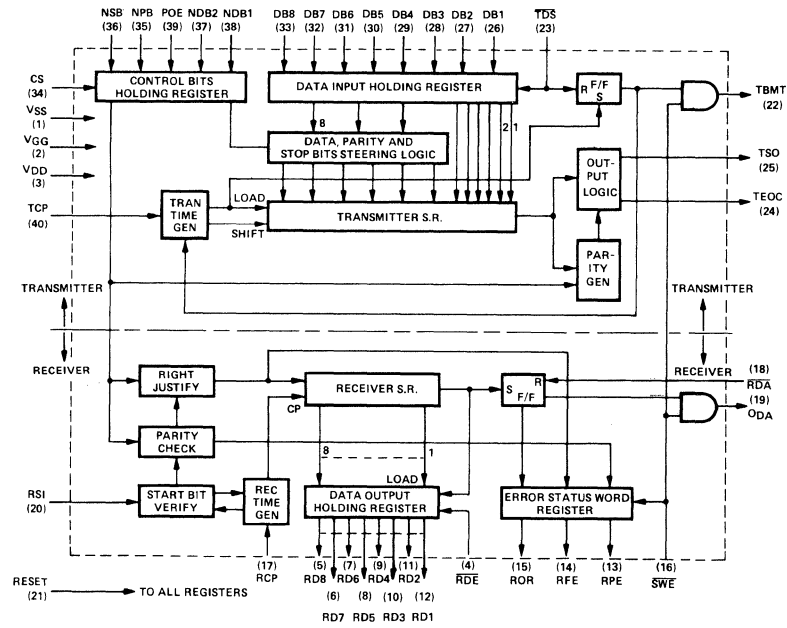
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

E2-3

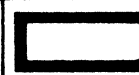
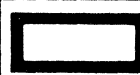


E2-4

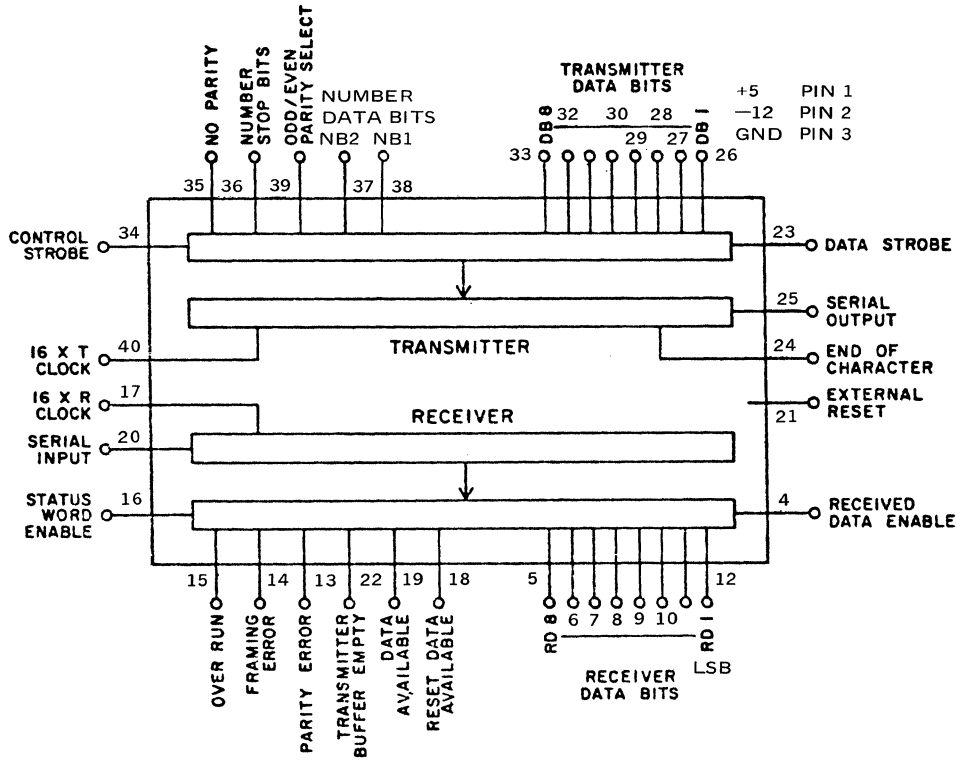


27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE



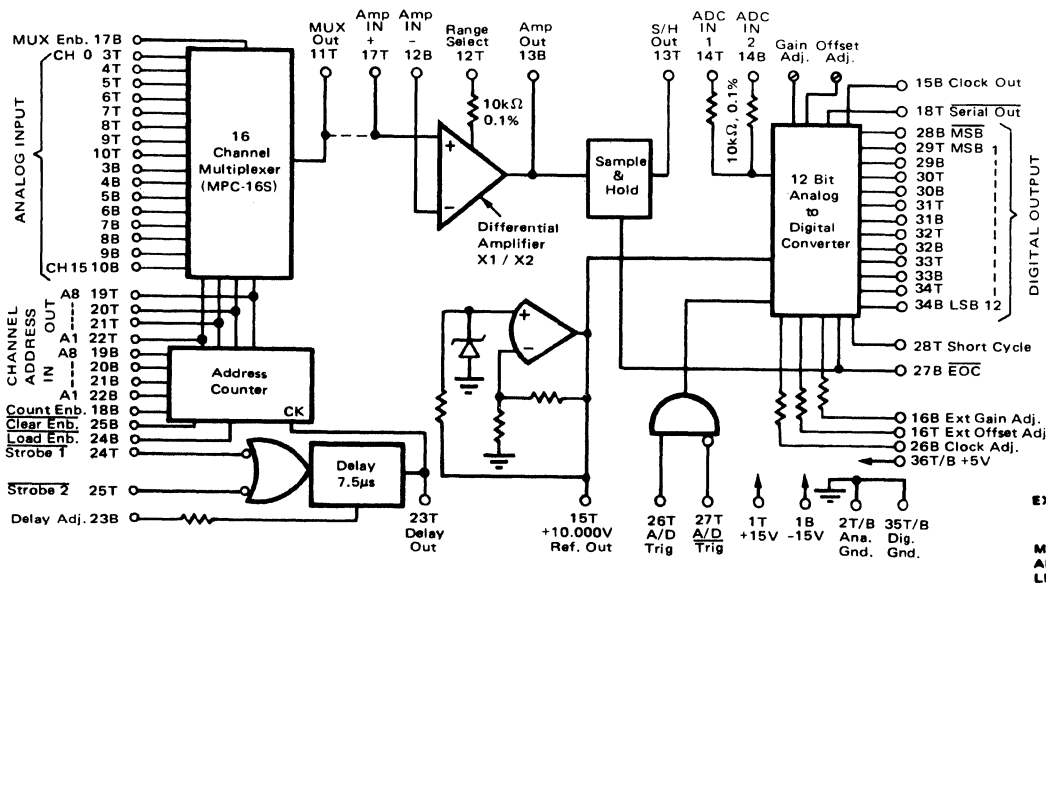
E2-5



27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

E3-1



+15V	1T	1B	-15V
ANA. GND.	2T	2B	ANA. GND.
CH 0 IN	3T	3B	CH 0 RTN
CH 1 IN	4T	4B	CH 1 RTN
CH 2 IN	5T	5B	CH 2 RTN
CH 3 IN	6T	6B	CH 3 RTN
CH 4 IN	7T	7B	CH 4 RTN
CH 5 IN	8T	8B	CH 5 RTN
CH 6 IN	9T	9B	CH 6 RTN
CH 7 IN	10T	10B	CH 7 RTN
MUX HI OUT	11T	11B	MUX LO OUT
RANGE SEL	12T	12B	AMP IN LO
S & H OUT	13T	13B	AMP OUT
ADC IN 1	14T	14B	ADC IN 2
+10V REF OUT	15T	15B	CLK. OUT
EXT. OFFSET ADJ.	16T	16B	GAIN ADJ.
* AMP IN HI	17T	17B	MUX ENB.
SERIAL OUT	18T	18B	COUNT ENB.
MUX ADDRESS LINES	19T	19B	8 IN
DLY OUT	20T	20B	4 IN
STROBE 1	21T	21B	2 IN
STROBE 2	22T	22B	1 IN
A/D TRIG	23T	23B	ADDRESS LINES
A/D TRIG	24T	24B	DLY. ADJ.
SHT. CYC.	25T	25B	LOAD ENB.
(MSB) B1 OUT	26T	26B	CLR. ENB.
B3 OUT	27T	27B	CLK. ADJ.
B5 OUT	28T	28B	EOC
B7 OUT	29T	29B	B1 OUT (MSB)
B9 OUT	30T	30B	B2 OUT
B11 OUT	31T	31B	B4 OUT
DIG. GND.	32T	32B	B6 OUT
+5V	33T	33B	B8 OUT
	34T	34B	B10 OUT
	35T	35B	B12 OUT (LSB)
	36T	36B	DIG. GND.
			+5V

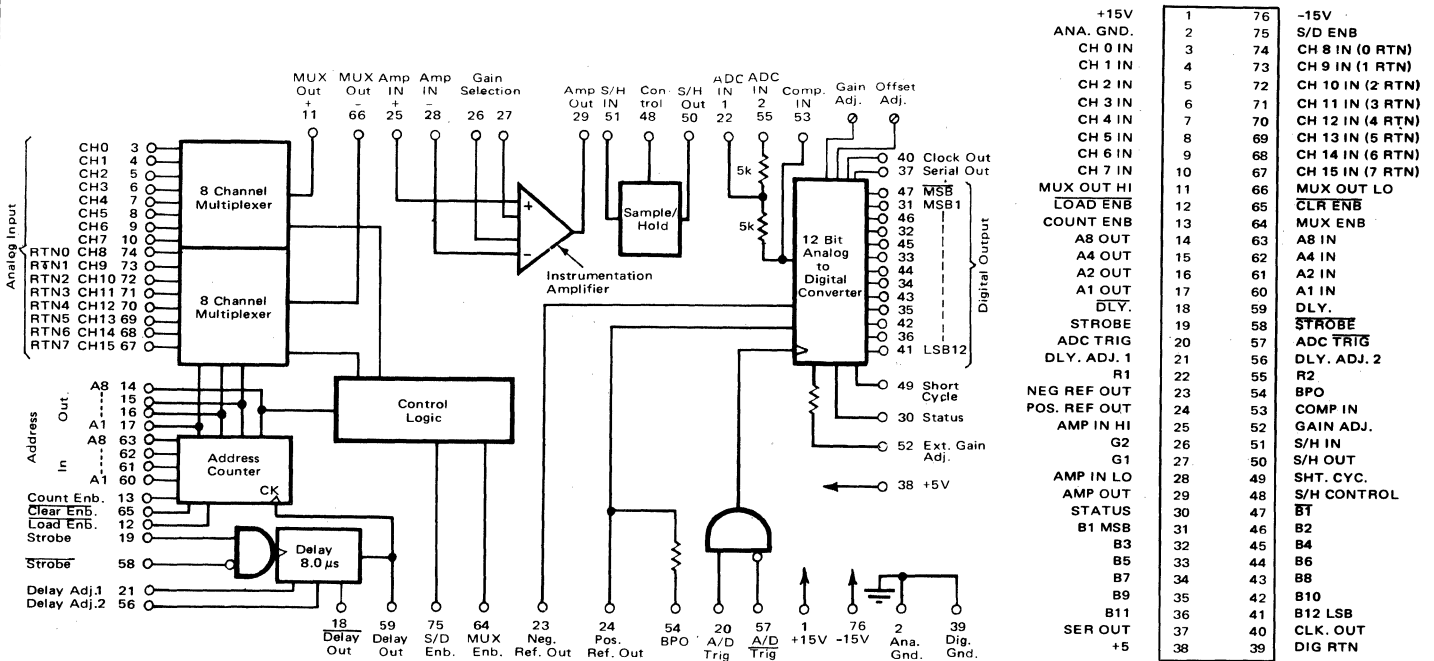
E3-2

+15V	1T	1B	-15V
ANA. GND.	2T	2B	ANA. GND.
CH 0 IN	3T	3B	CH 8 IN
CH 1 IN	4T	4B	CH 9 IN
CH 2 IN	5T	5B	CH 10 IN
CH 3 IN	6T	6B	CH 11 IN
CH 4 IN	7T	7B	CH 12 IN
CH 5 IN	8T	8B	CH 13 IN
CH 6 IN	9T	9B	CH 14 IN
CH 7 IN	10T	10B	CH 15 IN
MUX OUT	11T	11B	N/C
RANGE SEL	12T	12B	AMP IN LO
S & H OUT	13T	13B	AMP OUT
ADC IN 1	14T	14B	ADC IN 2
+10V REF OUT	15T	15B	CLK OUT
EXT OFFSET ADJ.	16T	16B	GAIN ADJ.
* AMP IN HI	17T	17B	MUX ENB.
SERIAL OUT	18T	18B	COUNT ENB.
MUX ADDRESS LINES	19T	19B	8 IN
DLY OUT	20T	20B	4 IN
STROBE 1	21T	21B	2 IN
STROBE 2	22T	22B	1 IN
A/D TRIG	23T	23B	ADDRESS LINES
A/D TRIG	24T	24B	DLY. ADJ.
SHT. CYC.	25T	25B	LOAD ENB.
(MSB) B1 OUT	26T	26B	CLR. ENB.
B3 OUT	27T	27B	CLK. ADJ.
B5 OUT	28T	28B	EOC
B7 OUT	29T	29B	B1 OUT (MSB)
B9 OUT	30T	30B	B2 OUT
B11 OUT	31T	31B	B4 OUT
DIG. GND.	32T	32B	B6 OUT
+5V	33T	33B	B8 OUT
	34T	34B	B10 OUT
	35T	35B	B12 OUT (LSB)
	36T	36B	DIG. GND.
			+5V

27. LOGIC/BLOCK DRAWINGS

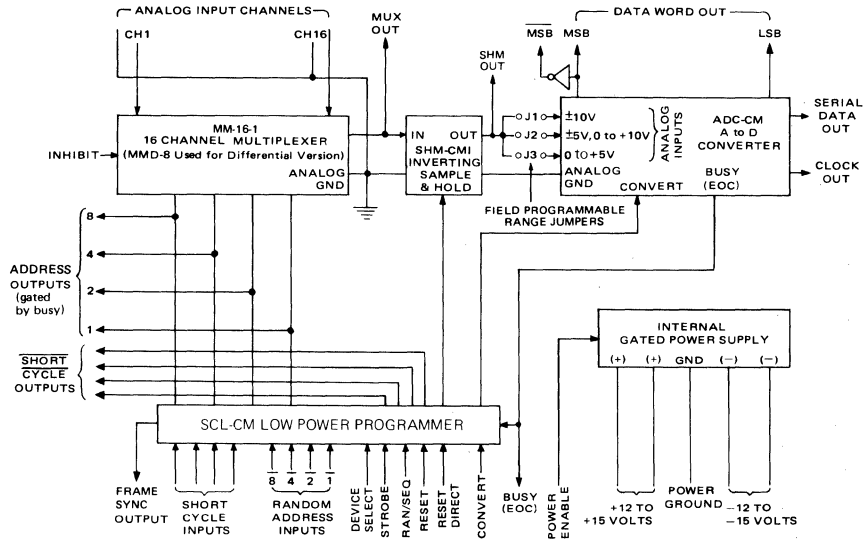
IN DRAWING NUMBER SEQUENCE

E3-3



+15V	1	76	-15V
ANA. GND.	2	75	S/D ENB
CH 0 IN	3	74	CH 8 IN (0 RTN)
CH 1 IN	4	73	CH 9 IN (1 RTN)
CH 2 IN	5	72	CH 10 IN (2 RTN)
CH 3 IN	6	71	CH 11 IN (3 RTN)
CH 4 IN	7	70	CH 12 IN (4 RTN)
CH 5 IN	8	69	CH 13 IN (5 RTN)
CH 6 IN	9	68	CH 14 IN (6 RTN)
CH 7 IN	10	67	CH 15 IN (7 RTN)
MUX OUT HI	11	66	MUX OUT LO
LOAD ENB	12	65	CLR ENB
COUNT ENB	13	64	MUX ENB
A8 OUT	14	63	A8 IN
A4 OUT	15	62	A4 IN
A2 OUT	16	61	A2 IN
A1 OUT	17	60	A1 IN
DLY.	18	59	DLY.
STROBE	19	58	STROBE
ADC TRIG	20	57	ADC TRIG
DLY. ADJ. 1	21	56	DLY. ADJ. 2
R1	22	55	R2
NEG REF OUT	23	54	BPO
POS. REF OUT	24	53	COMP IN
AMP IN HI	25	52	GAIN ADJ.
G2	26	51	S/H IN
G1	27	50	S/H OUT
AMP IN LO	28	49	SHT. CYC.
AMP OUT	29	48	S/H CONTROL
STATUS	30	47	BT
B1 MSB	31	46	B2
B3	32	45	B4
B5	33	44	B6
B7	34	43	B8
B9	35	42	B10
B11	36	41	B12 LSB
SER OUT	37	40	CLK. OUT
+5	38	39	DIG RTN

E3-4



FUNCTION	PIN	PIN	FUNCTION
-15VDC A/D Cont. Pwr	A1	B1	+15V Pwr. A/D & Mux.
-15V S/H, Mux Cont Pwr	A2	B2	+15V Pwr. SCL-CM & A/D
Analog Power Gnd	A3	B3	Analog Signal Gnd
Analog In 1 LO/In 2	A4	B4	Analog In HI/In 1
Analog In 2 HI/In 3	A5	B5	Analog Signal Gnd
Analog In 2 LO/In 4	A6	B6	Analog In 3 HI/In 5
Analog Signal Gnd	A7	B7	Analog In 3 LO/In 6
Analog Signal Gnd	A8	B8	Analog In 4 HI/In 7
Analog In 5 HI/In 9	A9	B9	Analog In 4 LO/In 8
Analog In 5 LO/In 10	A10	B10	Analog Signal Gnd
Analog In 6 HI/In 11	A11	B11	Analog Signal Gnd
Analog In 6 LO/In 12	A12	B12	Analog In 7 HI/In 13
Analog Signal Gnd	A13	B13	Analog In 7 LO/In 14
Analog Signal Gnd	A14	B14	Analog In 8 HI/In 15
Sample Hold Out J1, J2, J3	A15	B15	Analog In 8 LO/In 16
Bit 12 (LSB) Dig. Out	A16	B16	Mux. Ana. Out-SHM.In
Bit 11 Digital Output	A17	B17	Interrupt Power Control
Bit 10 Digital Output	A18	B18	Mux. Address (1) Output

FUNCTION	PIN	PIN	FUNCTION
Bit 9 Digital Output	A19	B19	Mux Address (2) Output
Bit 8 Digital Output	A20	B20	Mux Address (4) Output
Bit 7 Digital Output	A21	B21	Mux Address (8) Output
Bit 6 Digital Output	A22	B22	Mux Inhibit Input
Bit 5 Digital Output	A23	B23	Busy (EOC) Output
Bit 4 Digital Output	A24	B24	Start Convert Input
Bit 3 Digital Output	A25	B25	Device Select Input
Bit 2 Digital Output	A26	B26	Strobe Input
Bit 1 (MSB) Dig. Out.	A27	B27	Frame Sync Output
Bit 1 (MSB) Dig. Out.	A28	B28	Random Address (1) Input
Random Add. (8) Input	A29	B29	Random Address (2) Input
Reset Direct Input	A30	B30	Random Address (4) Input
Reset Input	A31	B31	Short Cycle (1) Output
Random/Sequential In.	A32	B32	Short Cycle (2) Output
Short Cycle (1) Input	A33	B33	Short Cycle (4) Output
Short Cycle (2) Input	A34	B34	Short Cycle (8) Output
Short Cycle (4) Input	A35	B35	A/D Clock Output
Short Cycle (8) Input	A36	B36	A/D Serial Output

Pin functions are shared depending on whether an 8 channel differential or 16 single-ended model is ordered. FUNCTIONS listed with a slash / show the differential version first then the single-ended version, i.e.

E3 4 / E3-4a

27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

E3-5

CONNECTOR FUNCTIONS ARE ARRANGED IN VERTICAL EDGEBOARD VIEW

CONNECTOR J1

PIN	FUNCTION	PIN	FUNCTION
A	CH 16 HI ANALOG INPUT	1	CH 16 LO ANALOG INPUT
B	CH 15 HI ANALOG INPUT	2	CH 15 LO ANALOG INPUT
C	CH 14 HI ANALOG INPUT	3	CH 14 LO ANALOG INPUT
D	CH 13 HI ANALOG INPUT	4	CH 13 LO ANALOG INPUT
E	CH 12 HI ANALOG INPUT	5	CH 12 LO ANALOG INPUT
F	CH 11 HI ANALOG INPUT	6	CH 11 LO ANALOG INPUT
H	CH 10 HI ANALOG INPUT	7	CH 10 LO ANALOG INPUT
J	CH 9 HI ANALOG INPUT	8	CH 9 LO ANALOG INPUT
K	AUX. LO ANALOG INPUT	9	AUX. LO ANALOG INPUT
L	DEVICE SELECT	10	RANDOM / SEQUENTIAL
M	STROBE	11	RESET
N	2 RANDOM ADDRESS INPUT	12	4 RANDOM ADDRESS INPUT
P	1 RANDOM ADDRESS INPUT	13	8 RANDOM ADDRESS INPUT
R	AUX. LO ANALOG INPUT	14	AUX. LO ANALOG INPUT
S	CH 8 HI ANALOG INPUT	15	CH 8 LO ANALOG INPUT
T	CH 7 HI ANALOG INPUT	16	CH 7 LO ANALOG INPUT
U	CH 6 HI ANALOG INPUT	17	CH 6 LO ANALOG INPUT
V	CH 5 HI ANALOG INPUT	18	CH 5 LO ANALOG INPUT
W	CH 4 HI ANALOG INPUT	19	CH 4 LO ANALOG INPUT
X	CH 3 HI ANALOG INPUT	20	CH 3 LO ANALOG INPUT
Y	CH 2 HI ANALOG INPUT	21	CH 2 LO ANALOG INPUT
Z	CH 1 HI ANALOG INPUT	22	CH 1 LO ANALOG INPUT

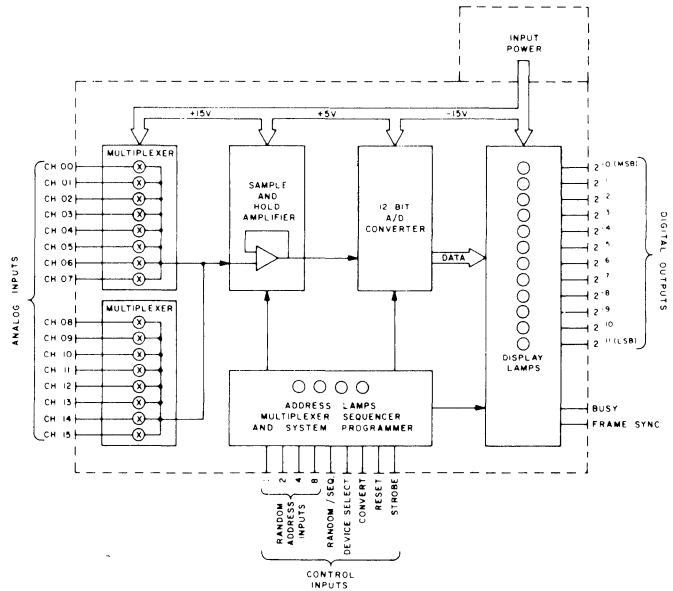
CONNECTOR J2

PIN	FUNCTION	PIN	FUNCTION
A	12 DIGITAL OUTPUT (LSB)	1	8 SEQUENCER OUTPUT
B	11 DIGITAL OUTPUT	2	4 SEQUENCER OUTPUT
C	10 DIGITAL OUTPUT	3	2 SEQUENCER OUTPUT
D	9 DIGITAL OUTPUT	4	1 SEQUENCER OUTPUT
E	8 DIGITAL OUTPUT	5	INT. CLOCK OUT
F	7 DIGITAL OUTPUT	6	NO CONNECTION
H	6 DIGITAL OUTPUT	7	NO CONNECTION
J	5 DIGITAL OUTPUT	8	NO CONNECTION
K	4 DIGITAL OUTPUT	9	CONVERT
L	3 DIGITAL OUTPUT	10	NO CONNECTION
M	2 DIGITAL OUTPUT	11	NO CONNECTION
N	1 DIGITAL OUTPUT (MSB)	12	NO CONNECTION
P	SERIAL OUTPUT	13	-15VDC (S B H)
R	BUSY	14	FRAME SYNC
S	-15VDC OR -20VDC	15	1 SEQUENCER OUTPUT
T	ADC INPUT (TEST POINT)	16	2 SEQUENCER OUTPUT
U	+15VDC	17	4 SEQUENCER OUTPUT
V	-15VDC	18	8 SEQUENCER OUTPUT
W	GROUND	19	1 SHORT CYCLE INPUT
X	GROUND	20	2 SHORT CYCLE INPUT
Y	+5VDC	21	4 SHORT CYCLE INPUT
Z	+5VDC	22	8 SHORT CYCLE INPUT

(-20V USED ONLY FOR E3-5a)

E3-5a

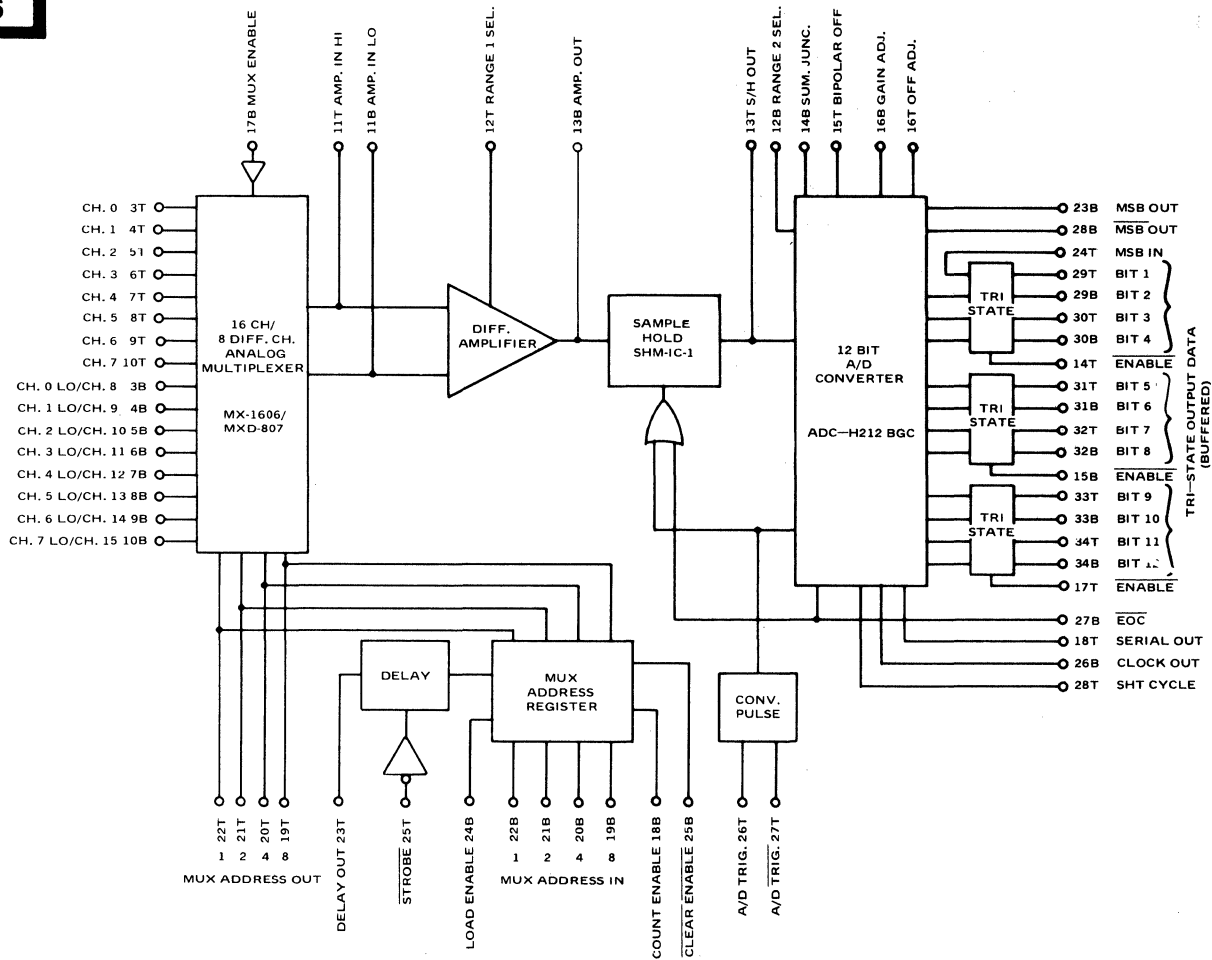
LEAVE J2-13 OPEN WHEN J2-5 IS CONNECTED TO -20V (+10VFS INPUT RANGE IN USE)



27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

E3-6



PIN CONNECTIONS for E3-6

	Top	Bottom
+15VDC	1T	1B
Analog Gnd.	2T	2B
Ch. 0 In	3T	3B
Ch. 1 In	4T	4B
Ch. 2 In	5T	5B
Ch. 3 In	6T	6B
Ch. 4 In	7T	7B
Ch. 5 In	8T	8B
Ch. 6 In	9T	9B
Ch. 7 In	10T	10B
Amplifier In Hi	11T	11B
Range 1 Select	12T	12B
Sample Hold Out	13T	13B
Enable (Bits 9-12 Out)	14T	14B
Bipolar Offset	15T	15B
Ext. Offset Adjust	16T	16B
Enable (Bits 1-4 Out)	17T	17B
Serial Out	18T	18B
8 Out	19T	19B
4 Out	20T	20B
2 Out	21T	21B
1 Out	22T	22B
Delay Out	23T	23B
MSB In (TTL)	24T	24B
Strobe	25T	25B
A/D Trigger	26T	26B
A/D Trigger	27T	27B
Short Cycle	28T	28B
Bit 1 Out* (MSB)	29T	29B
Bit 3 Out*	30T	30B
Bit 5 Out*	31T	31B
Bit 7 Out*	32T	32B
Bit 9 Out*	33T	33B
Bit 11 Out*	34T	34B
Digital Gnd.	35T	35B
+5VDC	36T	36B

	Top	Bottom
-15VDC	1T	1B
Analog Gnd.	2T	2B
Ch. 8 In	3T	3B
Ch. 9 In	4T	4B
Ch. 10 In	5T	5B
Ch. 11 In	6T	6B
Ch. 12 In	7T	7B
Ch. 13 In	8T	8B
Ch. 14 In	9T	9B
Ch. 15 In	10T	10B
Amplifier In Lo	11T	11B
Range 2 Select	12T	12B
Amplifier Out	13T	13B
Sum Junc. (Bipolar Offset)	14T	14B
Enable (Bits 5-8 Out)	15T	15B
Ext. Gain Adjust	16T	16B
Mux Enable	17T	17B
Count Enable	18T	18B
8 In	19T	19B
4 In	20T	20B
2 In	21T	21B
1 In	22T	22B
MSB Out (TTL)	23T	23B
Load Enable	24T	24B
Clear Enable	25T	25B
Clock Out	26T	26B
EOC (status)	27T	27B
MSB Out (TTL)	28T	28B
Bit 2 Out*	29T	29B
Bit 4 Out*	30T	30B
Bit 6 Out*	31T	31B
Bit 8 Out*	32T	32B
Bit 10 Out*	33T	33B
Bit 12 Out* (LSB)	34T	34B
Digital Gnd.	35T	35B
+5VDC	36T	36B

PIN CONNECTIONS for E3-6a

	Top	Bottom
+15VDC	1T	1B
Analog Gnd.	2T	2B
Ch. 0 Hi In	3T	3B
Ch. 1 Hi In	4T	4B
Ch. 2 Hi In	5T	5B
Ch. 3 Hi In	6T	6B
Ch. 4 Hi In	7T	7B
Ch. 5 Hi In	8T	8B
Ch. 6 Hi In	9T	9B
Ch. 7 Hi In	10T	10B
Amplifier In Hi	11T	11B
Range 1 Select	12T	12B
Sample Hold Out	13T	13B
Enable (Bits 9-12 Out)	14T	14B
Bipolar Offset	15T	15B
Ext. Offset Adjust	16T	16B
Enable (Bits 1-4 Out)	17T	17B
Serial Out	18T	18B
8 Out	19T	19B
4 Out	20T	20B
2 Out	21T	21B
1 Out	22T	22B
Delay Out	23T	23B
MSB In (TTL)	24T	24B
Strobe	25T	25B
A/D Trigger	26T	26B
A/D Trigger	27T	27B
Short Cycle	28T	28B
Bit 1 Out* (MSB)	29T	29B
Bit 3 Out*	30T	30B
Bit 5 Out*	31T	31B
Bit 7 Out*	32T	32B
Bit 9 Out	33T	33B
Bit 11 Out*	34T	34B
Digital Gnd.	35T	35B
+5VDC	36T	36B

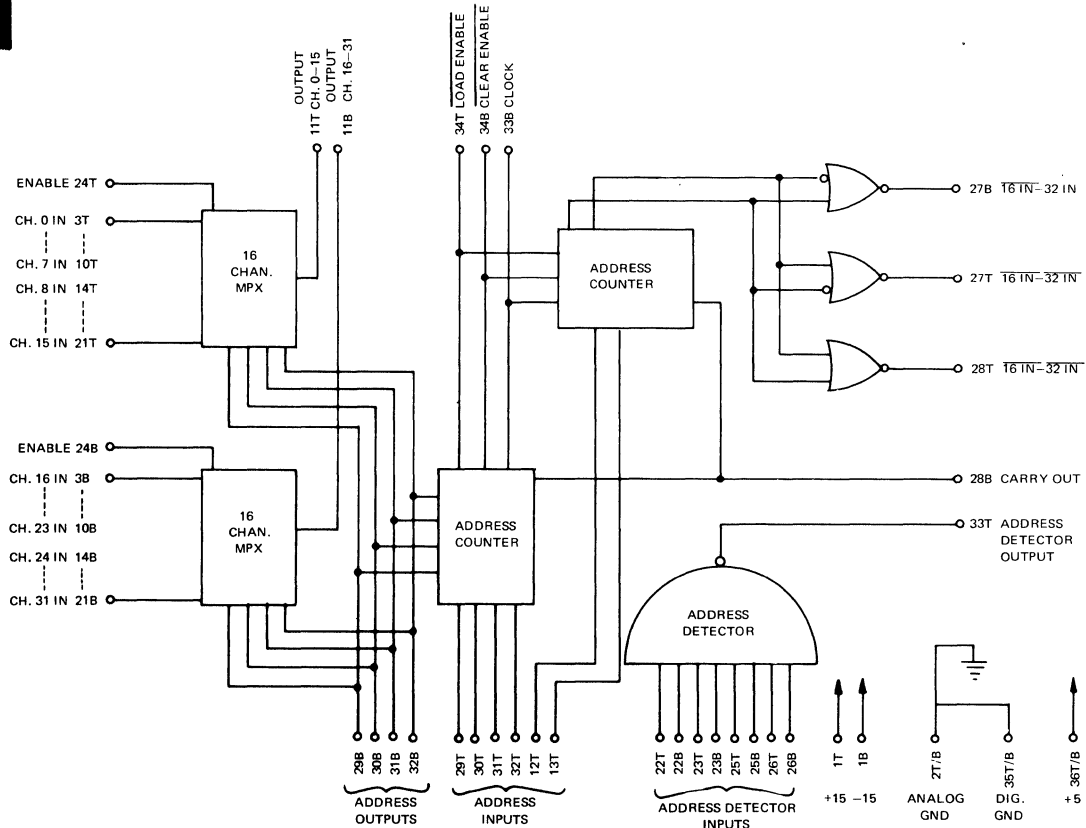
	Top	Bottom
-15VDC	1T	1B
Analog Gnd.	2T	2B
Ch. 0 Lo In	3T	3B
Ch. 1 Lo In	4T	4B
Ch. 2 Lo In	5T	5B
Ch. 3 Lo In	6T	6B
Ch. 4 Lo In	7T	7B
Ch. 5 Lo In	8T	8B
Ch. 6 Lo In	9T	9B
Ch. 7 Lo In	10T	10B
Amplifier In Lo	11T	11B
Range 2 Select	12T	12B
Amplifier Out	13T	13B
Sum Junc. (Bipolar Offset)	14T	14B
Enable (Bits 5-8 Out)	15T	15B
Ext. Gain Adjust	16T	16B
Mux Enable	17T	17B
Count Enable	18T	18B
8 In	19T	19B
4 In	20T	20B
2 In	21T	21B
1 In	22T	22B
MSB Out (TTL)	23T	23B
Load Enable	24T	24B
Clear Enable	25T	25B
Clock Out	26T	26B
EOC (status)	27T	27B
MSB Out (TTL)	28T	28B
Bit 2 Out*	29T	29B
Bit 4 Out*	30T	30B
Bit 6 Out*	31T	31B
Bit 8 Out*	32T	32B
Bit 10 Out*	33T	33B
Bit 12 Out* (LSB)	34T	34B
Digital Gnd.	35T	35B
+5VDC	36T	36B

*Tri-State Outputs

27. LOGIC/BLOCK DRAWINGS

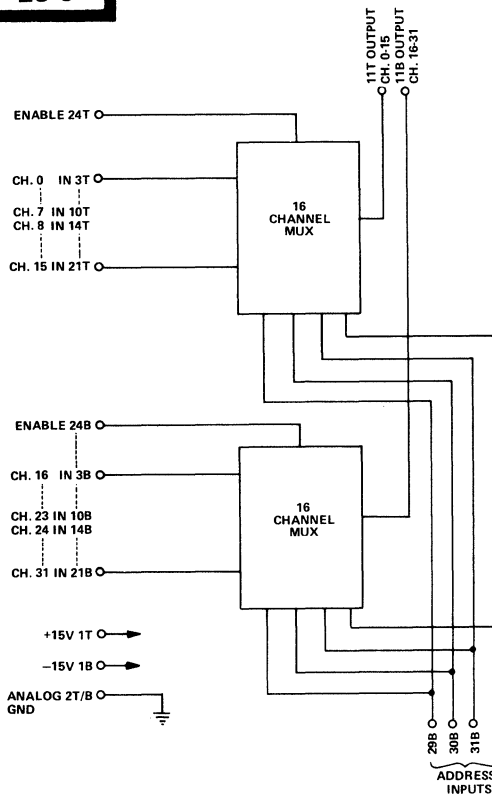
IN DRAWING NUMBER SEQUENCE

E3-7



E3-8

PIN CONNECTIONS			
	TOP	BOTTOM	
+15 VDC	1T	1B	-15VDC
Analog Gnd.	2T	2B	Analog Gnd
Ch. 0 In	3T	3B	Ch. 16 In
Ch. 1 In	4T	4B	Ch. 17 In
Ch. 2 In	5T	5B	Ch. 18 In
Ch. 3 In	6T	6B	Ch. 19 In
Ch. 4 In	7T	7B	Ch. 20 In
Ch. 5 In	8T	8B	Ch. 21 In
Ch. 6 In	9T	9B	Ch. 22 In
Ch. 7 In	10T	10B	Ch. 23 In
Output, Ch. 0-15	11T	11B	Output, Ch. 16-31
	12T	12B	16 In
	13T	13B	32 In
Ch. 8 In	14T	14B	Ch. 24 In
Ch. 9 In	15T	15B	Ch. 25 In
Ch. 10 In	16T	16B	Ch. 26 In
Ch. 11 In	17T	17B	Ch. 27 In
Ch. 12 In	18T	18B	Ch. 28 In
Ch. 13 In	19T	19B	Ch. 29 In
Ch. 14 In	20T	20B	Ch. 30 In
Ch. 15 In	21T	21B	Ch. 31 In
Add. Det. In 1	22T	22B	Add. Det. In 2
Add. Det. In 3	23T	23B	Add. Det. In 4
Enable Ch. 0-15	24T	24B	Enable Ch. 16-31
Add. Det. In 5	25T	25B	Add. Det. In 6
Add. Det. In 7	26T	26B	Add. Det. In 8
16 In * 32 In	27T	27B	16 In * 32 In
16 In * 32 In	28T	28B	Carry Out
1 Out	29T	29B	1 In
2 Out	30T	30B	2 In
4 Out	31T	31B	4 In
8 Out	32T	32B	8 In
Address Det. Out	33T	33B	Clock
Load Enable	34T	34B	Clear Enable
Digital Gnd.	35T	35B	Digital Gnd.
+5 VDC	36T	36B	+5 VDC

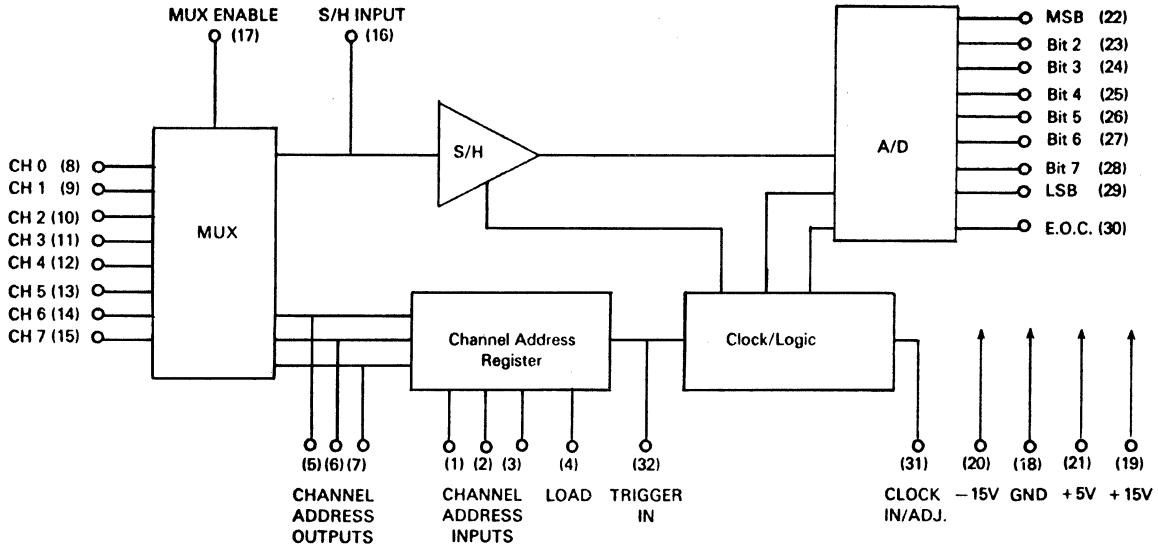


PIN CONNECTIONS			
	TOP	BOTTOM	
+15 VDC	1T	1B	-15 VDC
Analog Gnd.	2T	2B	Analog Gnd.
Ch. 0 In	3T	3B	Ch. 17 In
Ch. 1 In	4T	4B	Ch. 17 In
Ch. 2 In	5T	5B	Ch. 18 In
Ch. 3 In	6T	6B	Ch. 19 In
Ch. 4 In	7T	7B	Ch. 20 In
Ch. 5 In	8T	8B	Ch. 21 In
Ch. 6 In	9T	9B	Ch. 22 In
Ch. 7 In	10T	10B	Ch. 23 In
Output, Ch. 0-15	11T	11B	Output, Ch. 16-31
	12T	12B	
	13T	13B	
Ch. 8 In	14T	14B	Ch. 24 In
Ch. 9 In	15T	15B	Ch. 25 In
Ch. 10 In	16T	16B	Ch. 26 In
Ch. 11 In	17T	17B	Ch. 27 In
Ch. 12 In	18T	18B	Ch. 28 In
Ch. 13 In	19T	19B	Ch. 29 In
Ch. 14 In	20T	20B	Ch. 30 In
Ch. 15 In	21T	21B	Ch. 31 In
	22T	22B	
	23T	23B	
Enable Ch. 0-15	24T	24B	Enable Ch. 16-31
	25T	25B	
	26T	26B	
	27T	27B	
	28T	28B	
	29T	29B	1 In
	30T	30B	2 In
	31T	31B	4 In
	32T	32B	8 In
	33T	33B	
	34T	34B	
	35T	35B	
	36T	36B	

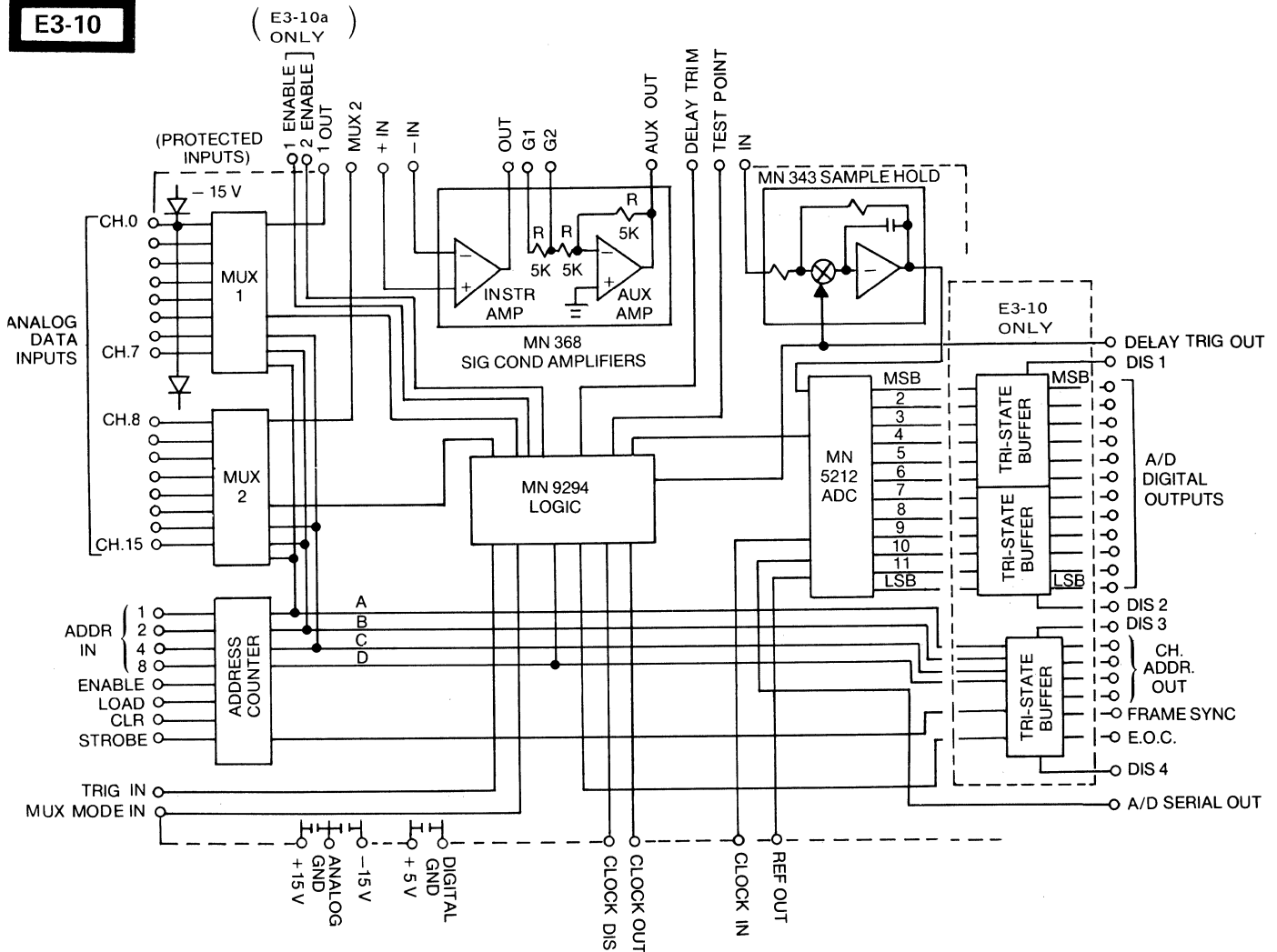
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

E3-9



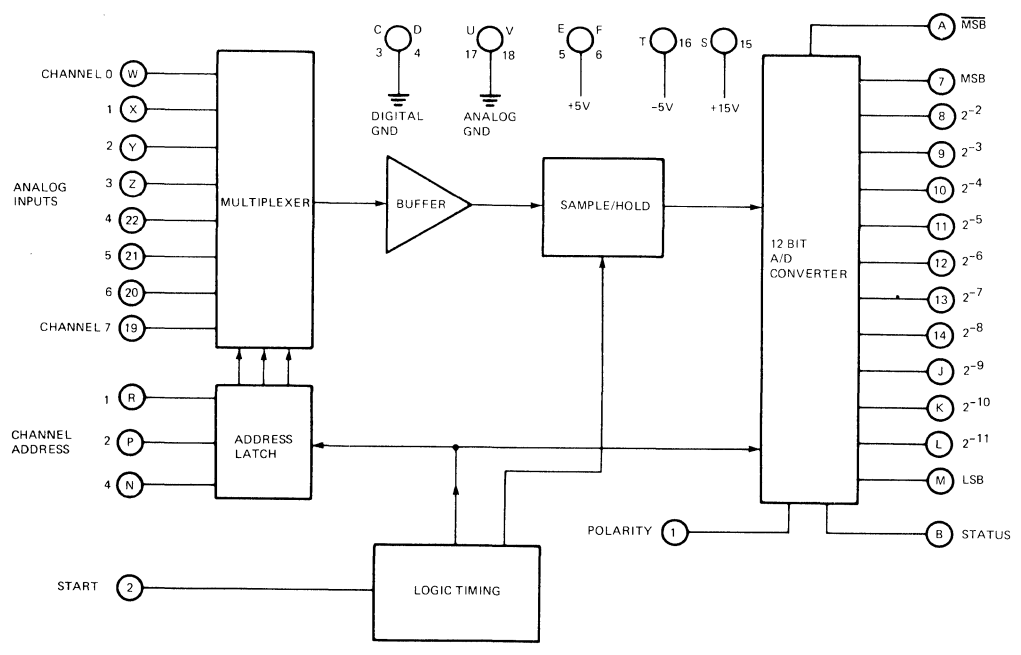
E3-10



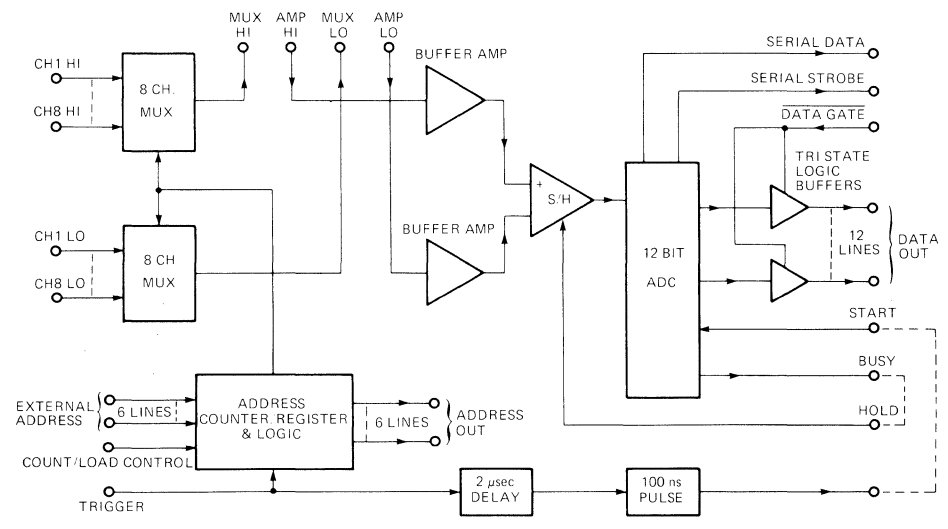
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

E3-11



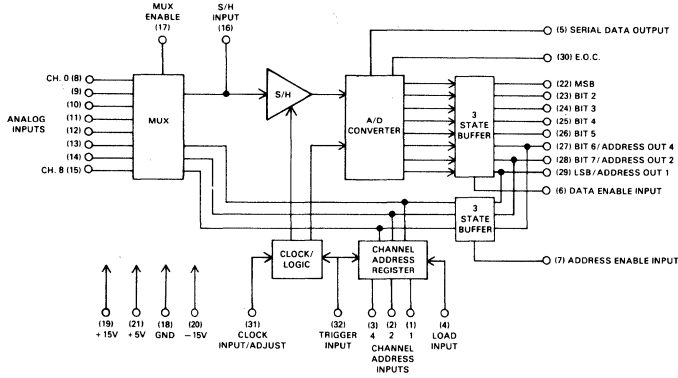
E3-12



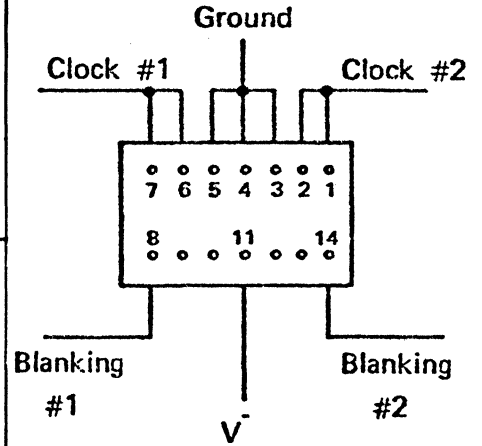
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

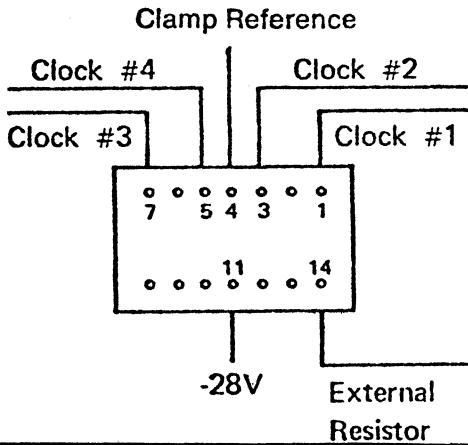
E3-16



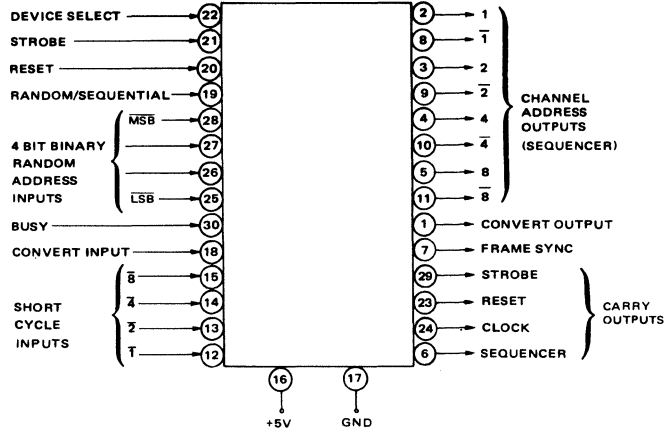
E4-1



E4-2



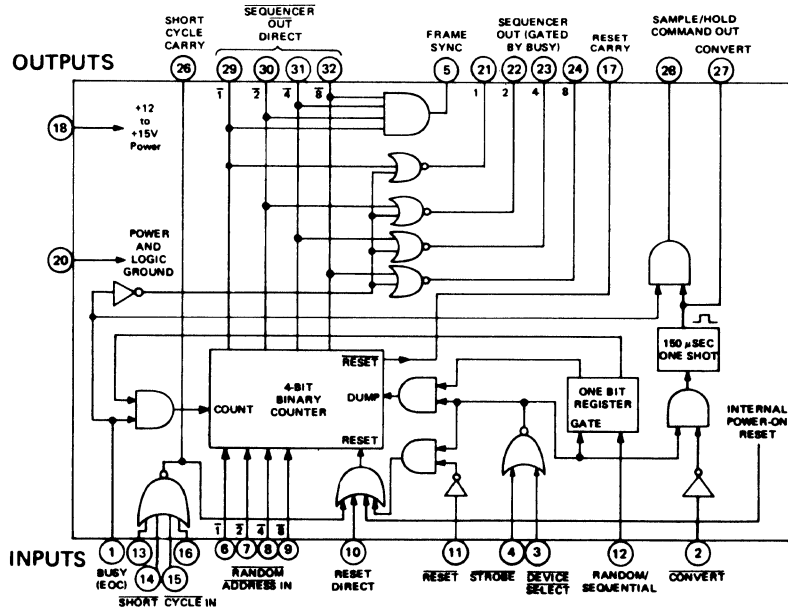
E5-1



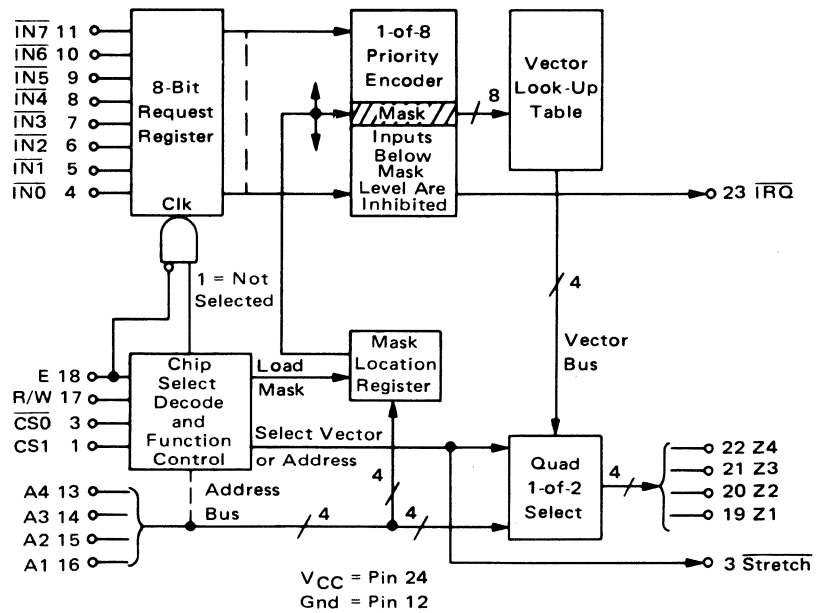
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

E5-2



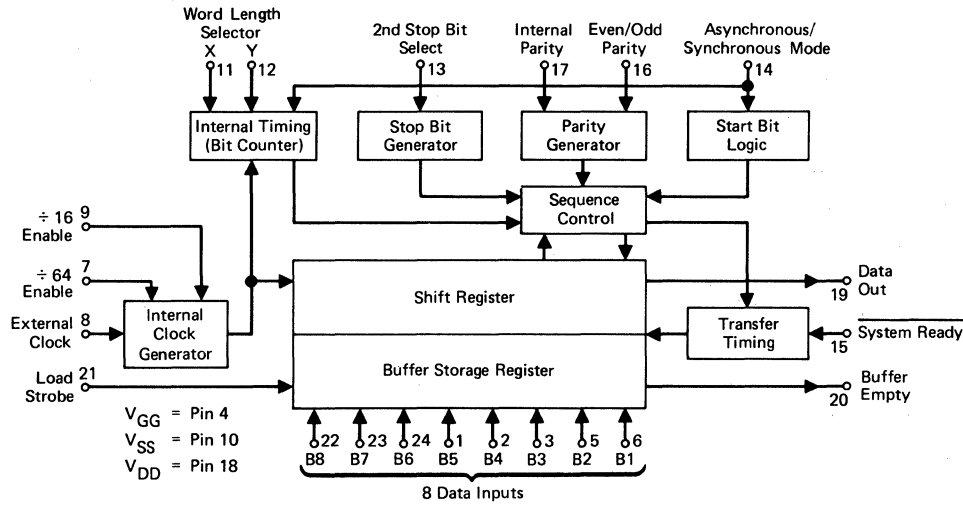
E6-1



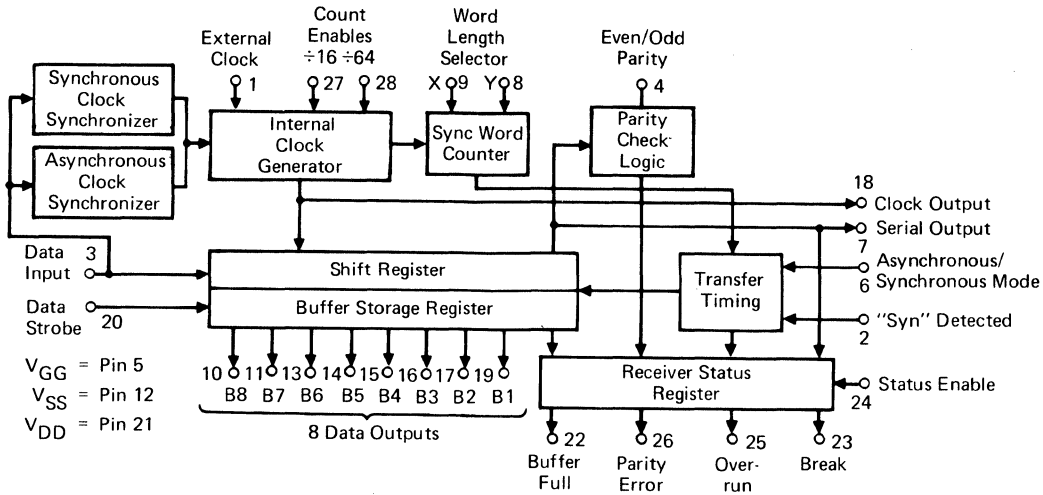
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

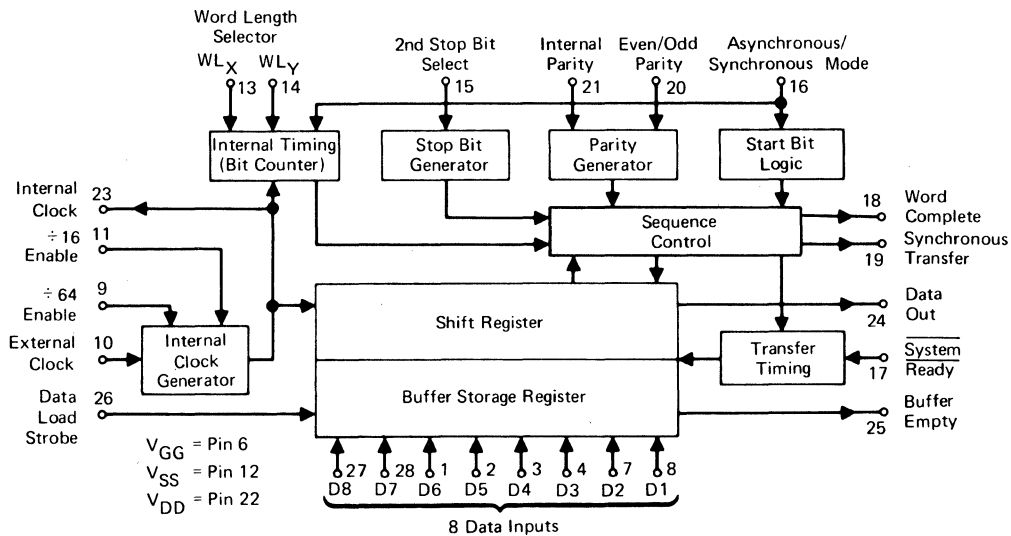
E6-2



E63



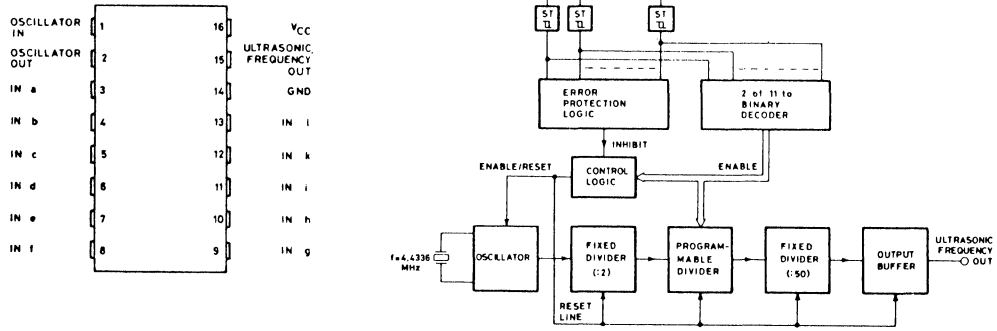
E6-4



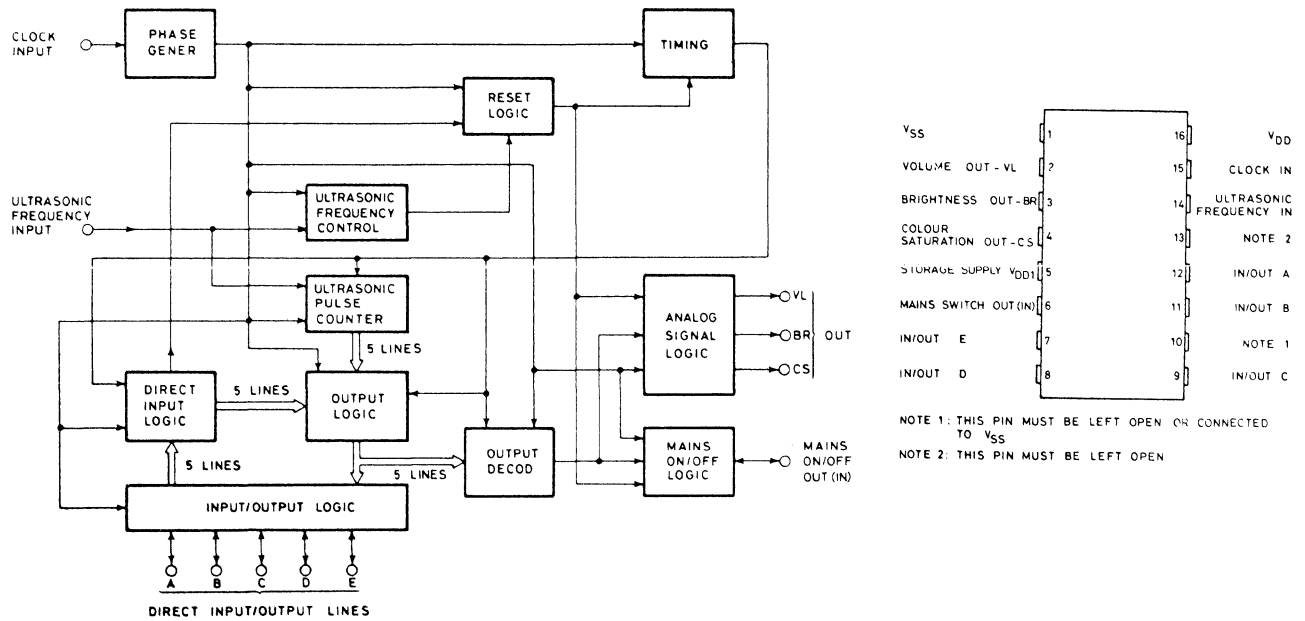
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

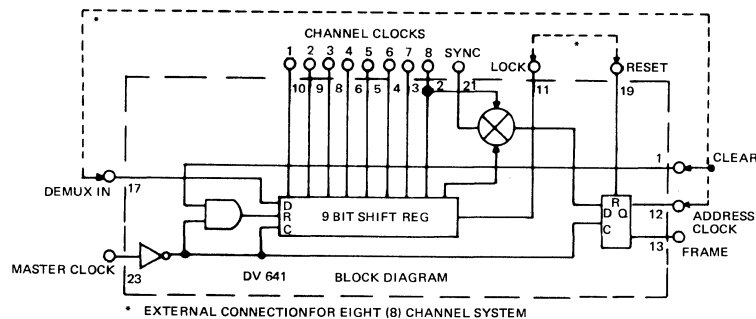
E6-5



E6-6



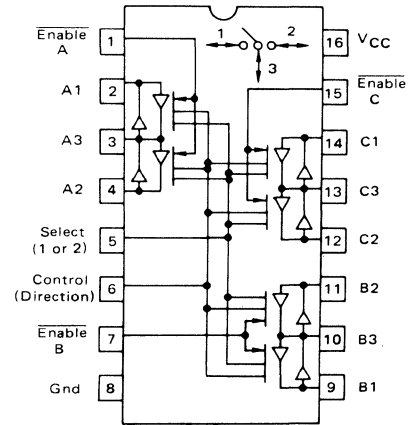
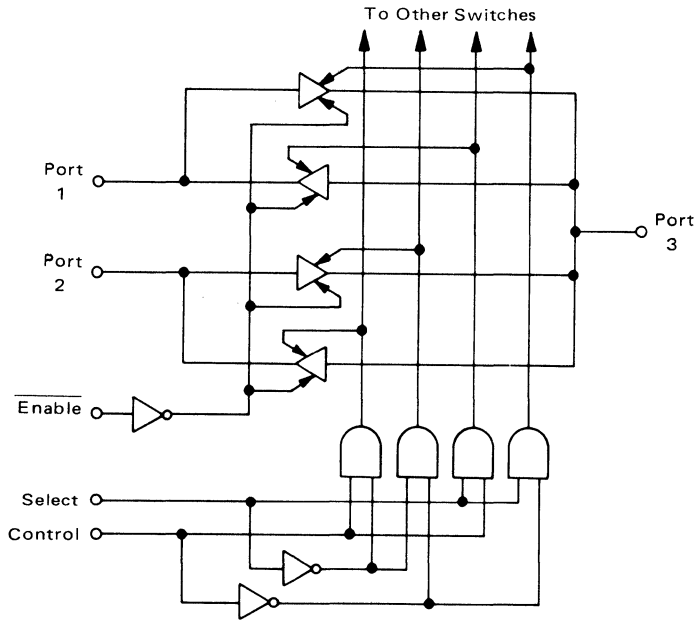
E6-8



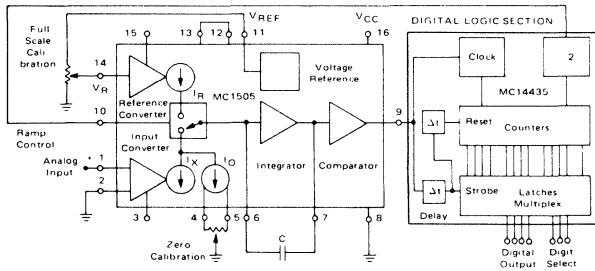
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

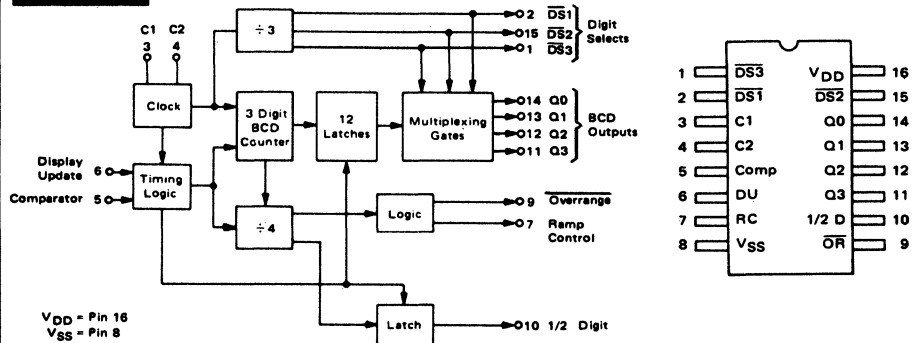
E6-9



E7-1



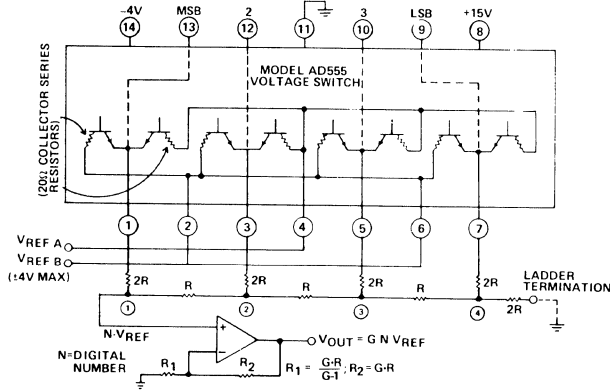
E7-2



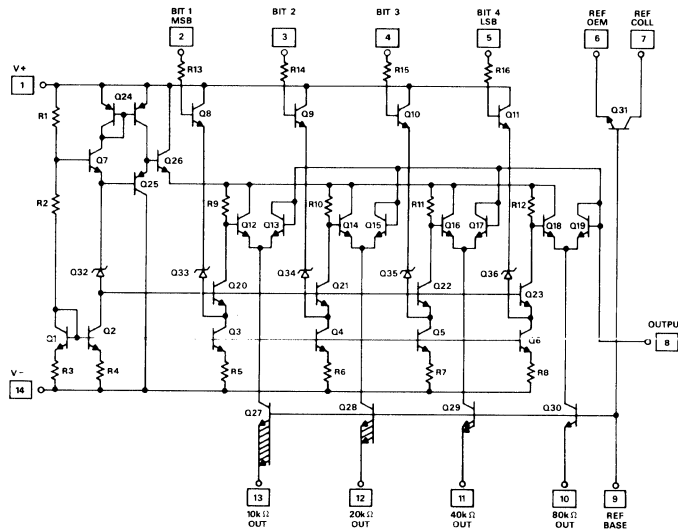
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

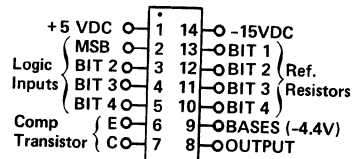
E7-4



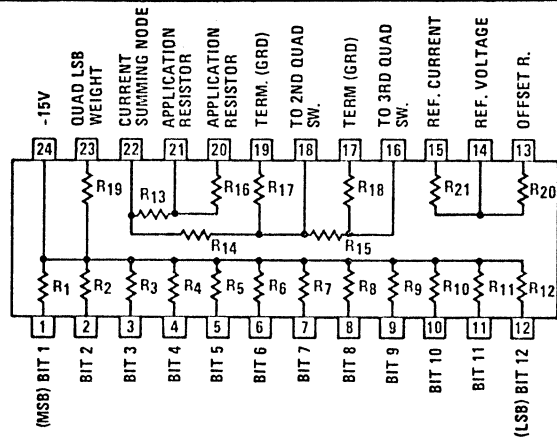
E7-5



PIN CONNECTIONS



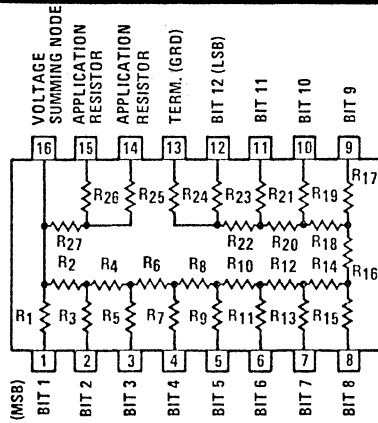
E7-6



27. LOGIC/BLOCK DRAWINGS

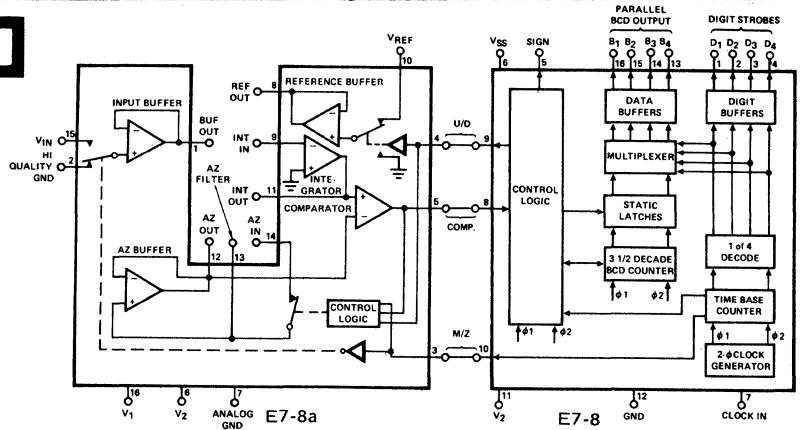
IN DRAWING NUMBER
SEQUENCE

E7-7

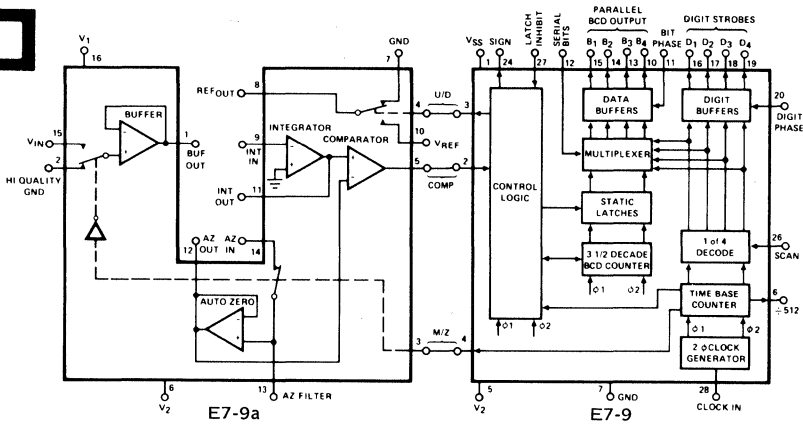


$R = 50K$, $RSW = 15\Omega$
 $R1, R3, R5, R7 = 2R - RSW$
 $R9, R11, R13, R15, R17,$
 $R19, R21, R23, R24 = 2R$
 $R2, R4, R6, R8, R10, R12,$
 $R14, R16, R18, R20, R22,$
 $R27 = R$
 $R25, R26 = R/2$

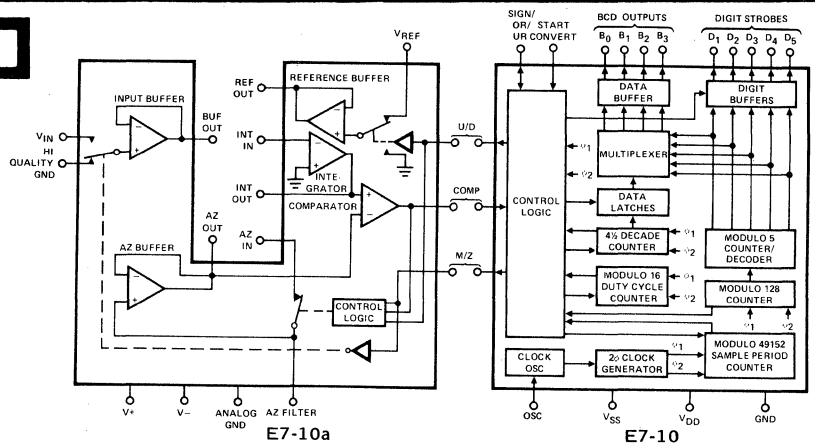
E7-8



E7-9



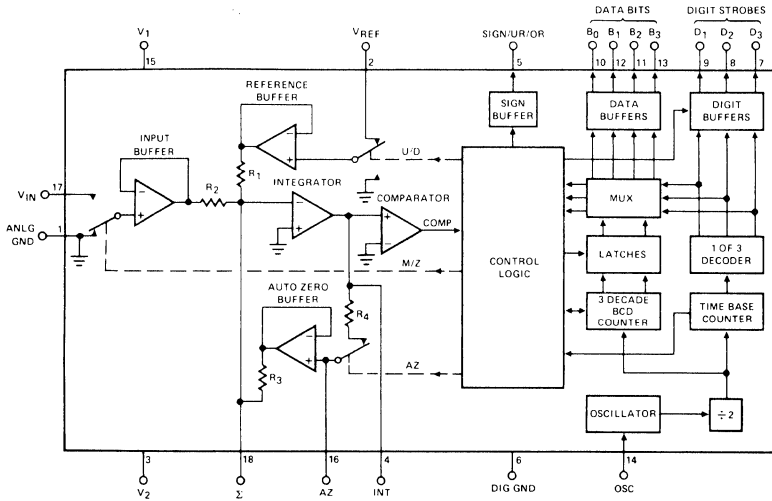
E7-10



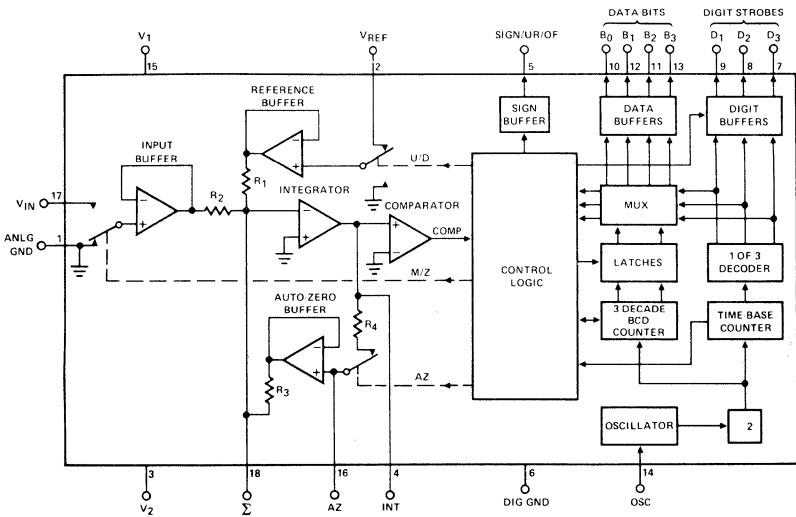
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

E7-11



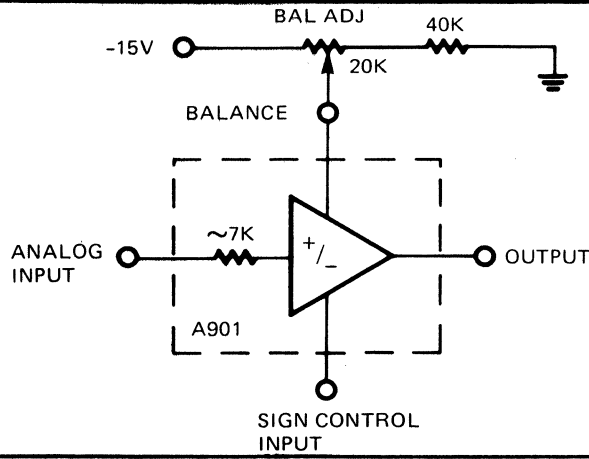
E7-12



27. LOGIC/BLOCK DRAWINGS

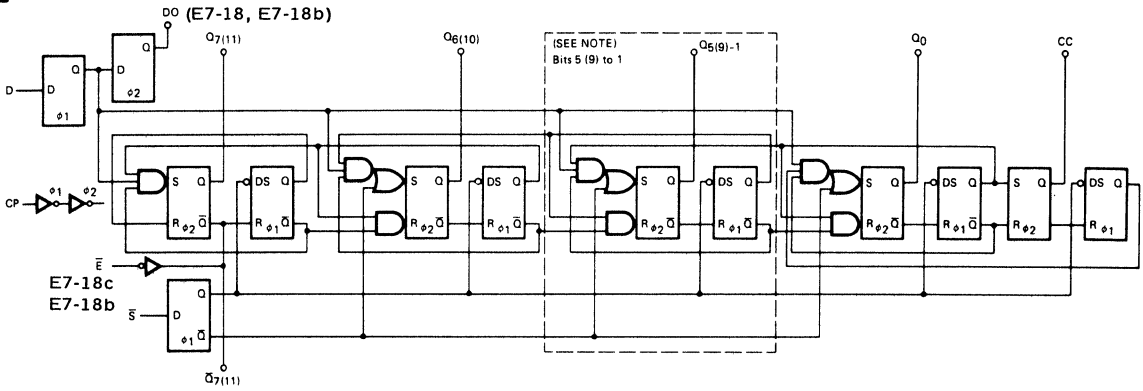
IN DRAWING NUMBER SEQUENCE

E7-13

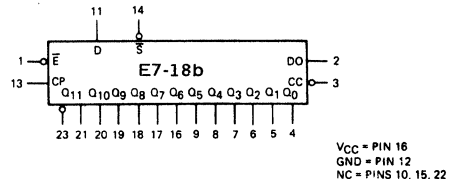
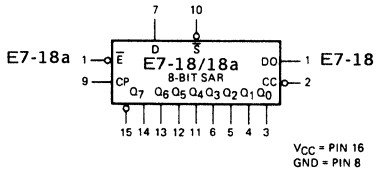


PIN NO.	FUNCTION
1	OUTPUT
2	BALANCE
3	GRD
4	INPUT
5	SIGN
6	+15VDC
7	-15VDC

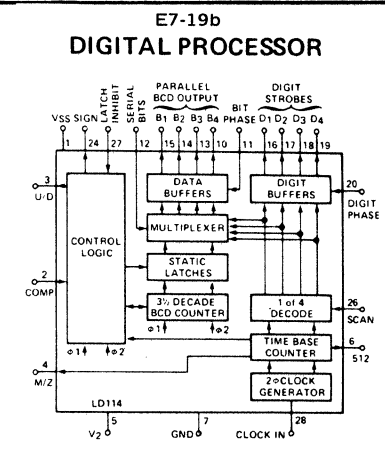
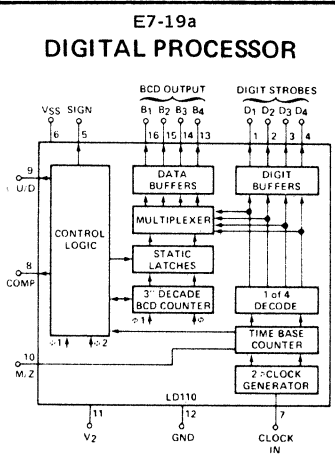
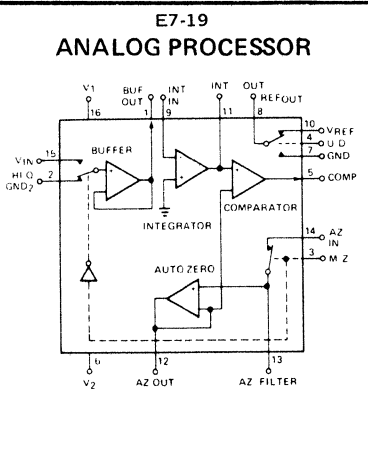
E7-18



- NOTE:
- CELL LOGIC IS REPEATED FOR REGISTER STAGES Q₅ TO Q₁ E7-18/18a Q₉ TO Q₁ E7-18b
 - NUMBERS IN PARENTHESES ARE FOR E7-18b



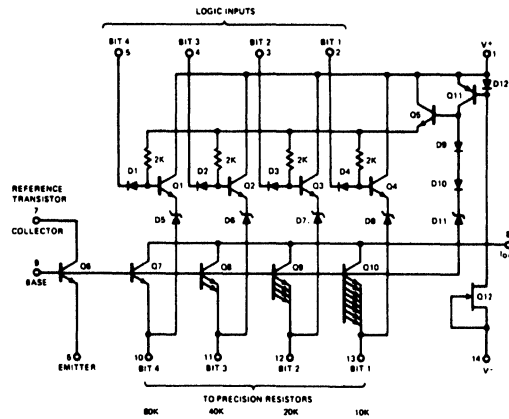
E7-19



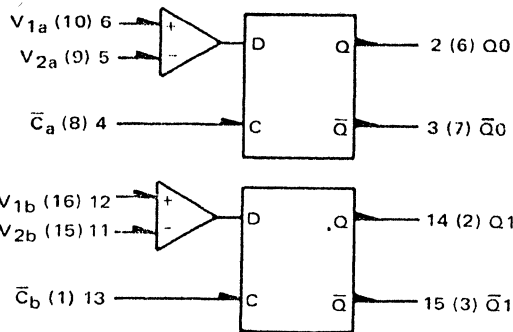
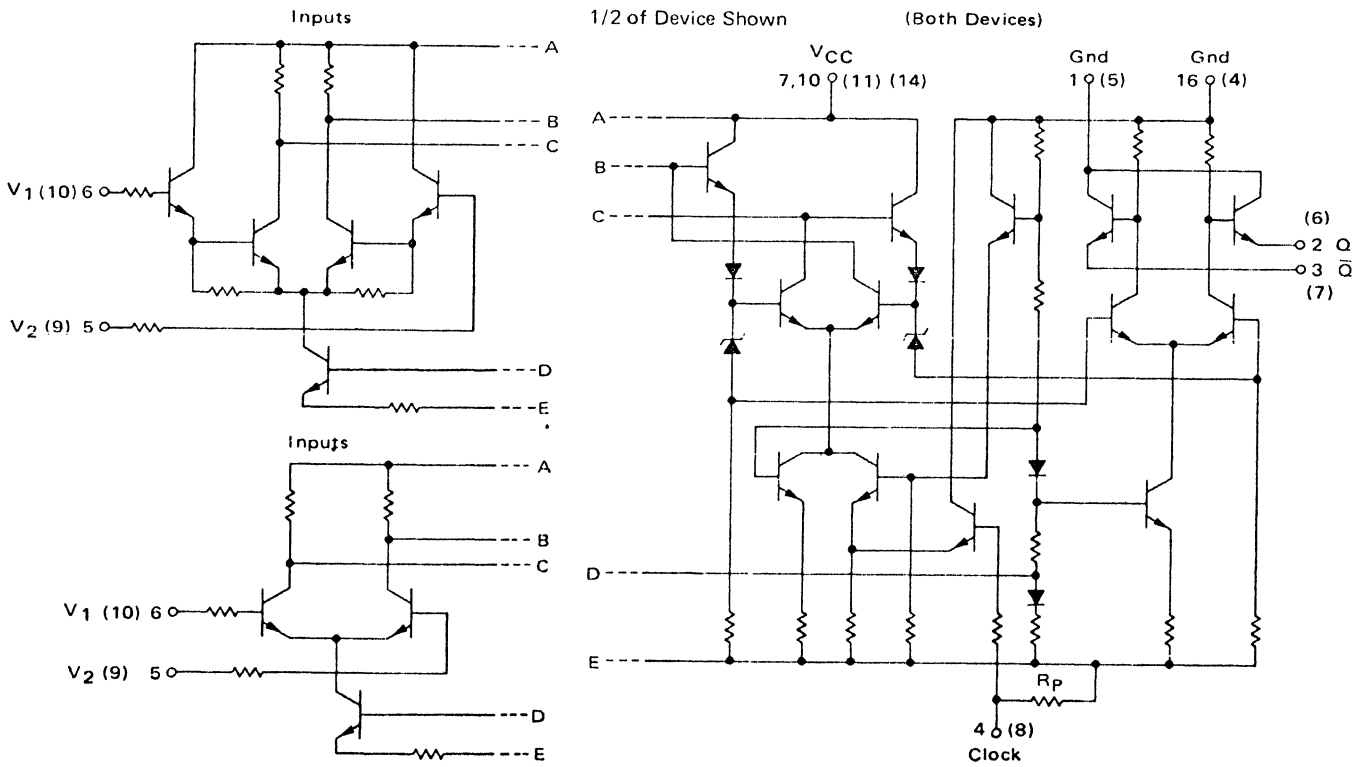
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

E7-20



E7-21



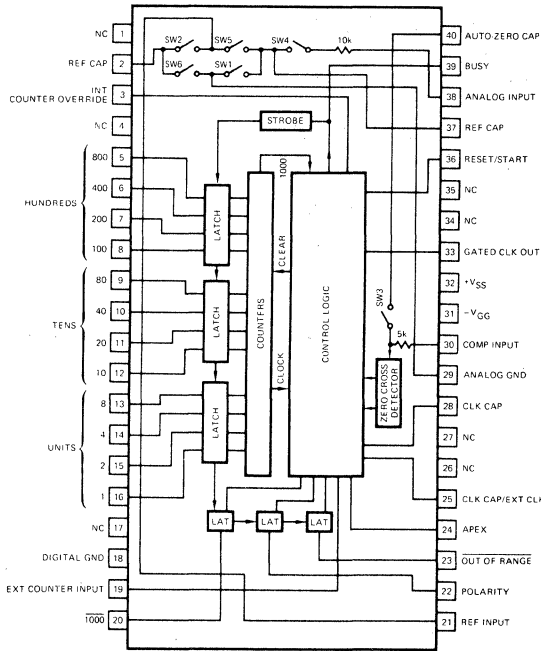
NUMBER AT END OF TERMINAL DENOTES
PIN NUMBER FOR E7-21 AND E7-21a
NUMBER IN PARENTHESIS DENOTES PIN
NUMBER FOR E7-21b AND E7-21c

27. LOGIC/BLOCK DRAWINGS

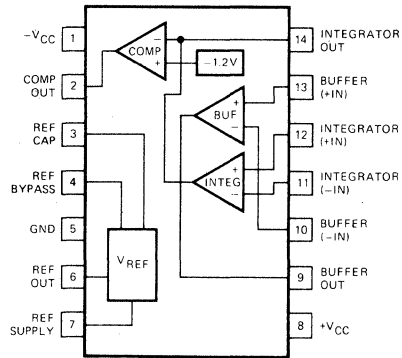
IN DRAWING NUMBER SEQUENCE

E7-22

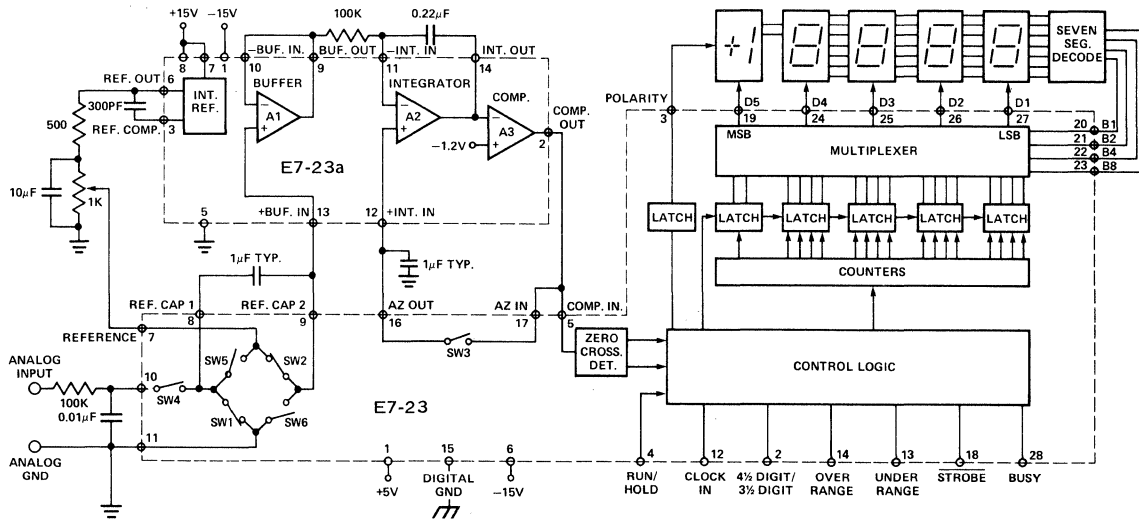
7101 Digital Processor
E7-22



8052 Analog Signal Conditioner
E7-22a



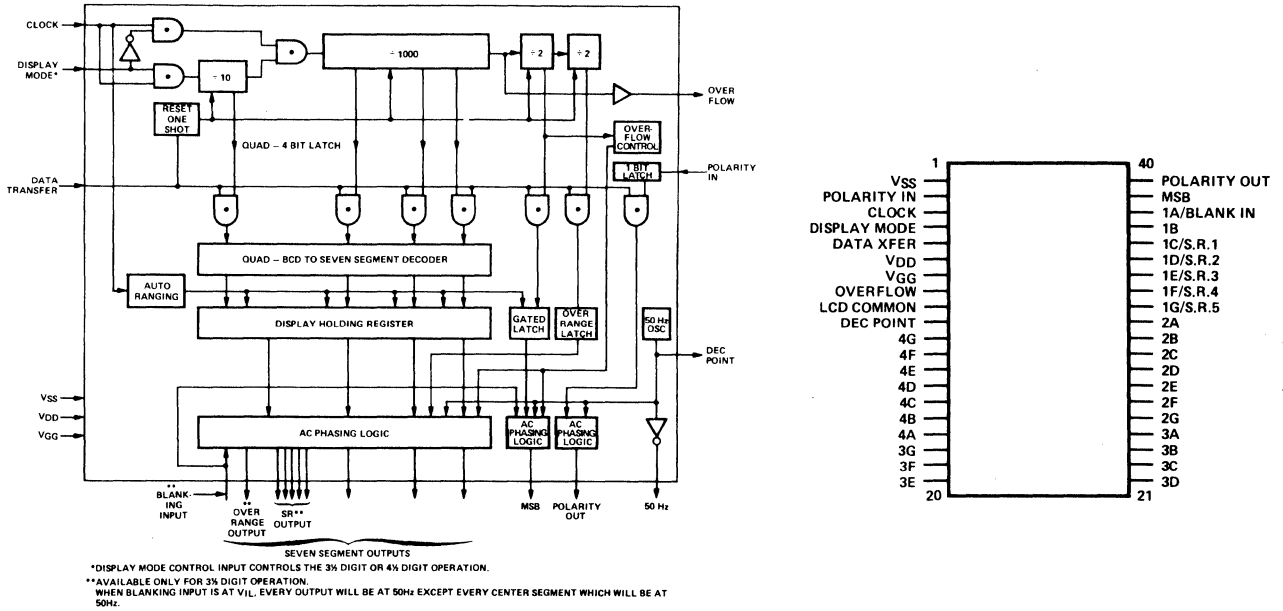
E7-23



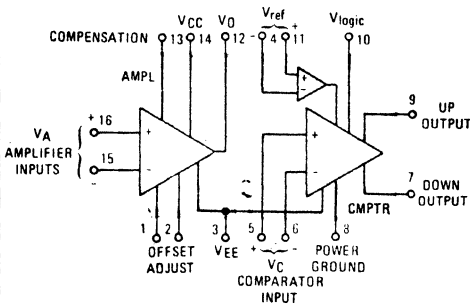
27. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

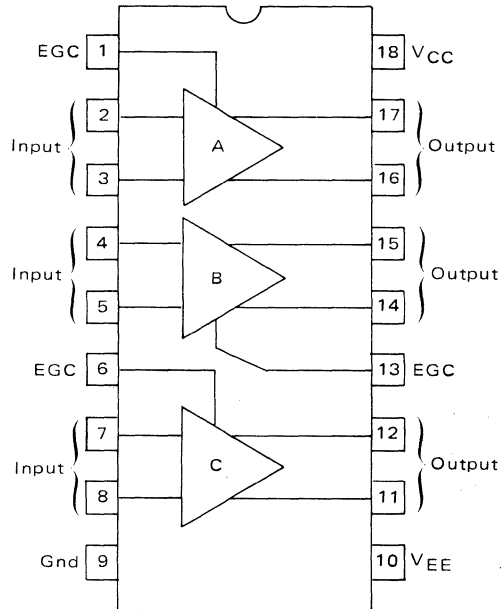
E7-26



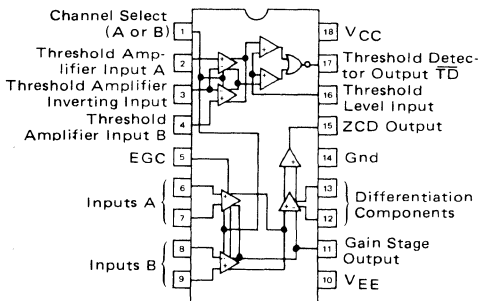
E7-27



E8-1



E8-2

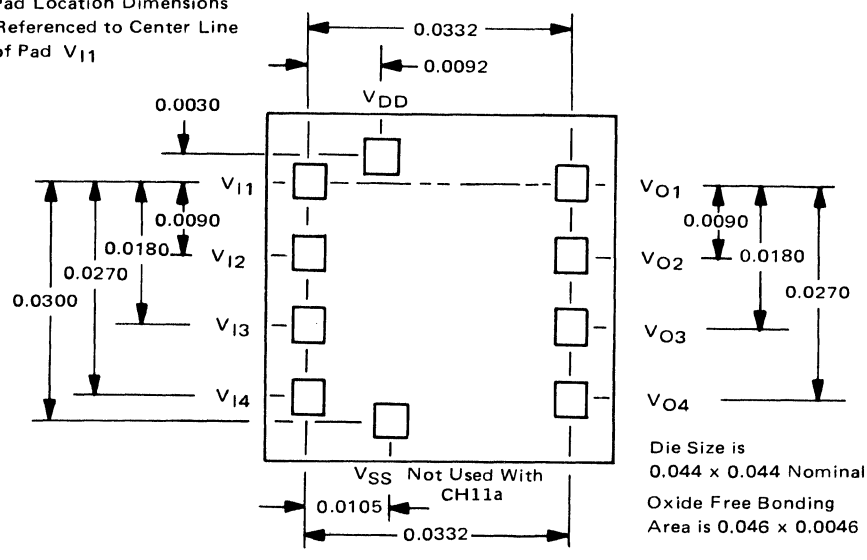


28. OUTLINE DRAWINGS

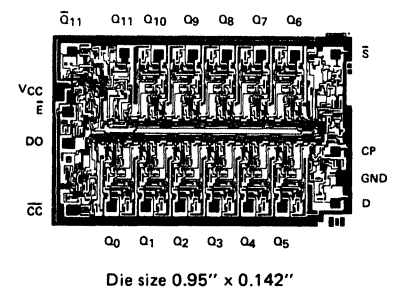
IN DRAWING NUMBER
SEQUENCE

CH11

Pad Location Dimensions
Referenced to Center Line
of Pad V_{I1}



CH12



28. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

CN1

	A	B	C	D	E	F	G	H	J	K	M	N	Q
CN1	.450	.255	.935	.015	.018	.300	.150	.031	.031	45°	.500	.150	.075
CN1a	.550	.170	.500		.017	.400	.200	.031	.031	45°	.597	.200	.100
	REF	MAX	MIN								.603		
CN1b	.470		.500	.030	.016		.075	.026	.026	42°	.498	.150	.075
	MAX		MIN	MAX				.036	.036	48°	.506		.130
CN1c	.444	.500		.022	.016		.075	.026	.026	42°	.497	.150	.075
	.460	.560		.030	.019			.036	.036	48°	.503		.130

CN2

CN3

CN4

	A	B	C	D	E	F	G	H	I	J	K	L	M
CN4	.165	.305	.010	.500	.335	.016	.040	.230	.115	36°	.028	.029	.160
CN4a	.185	.335	.040	.500	.370	.019	.040	.230		TYP	.034	.045	MAX
CN4b	.185	.334	.043	.499	.370	.019		.229		36°	.035	.045	
	MAX	MAX	MAX	MIN	MAX						MAX	MAX	

CN5

CN6

	A	B	C	D	E	G	H	J	K	M
CN6	.335	.305	.180	.016	.040	.230	.028	.029	.750	36°
CN6a	.370	.335	MAX	.019	MAX		.034	.045	MIN	
CN6a	.370	.334	.177	.015		.200	.031	.031	.964	MIN

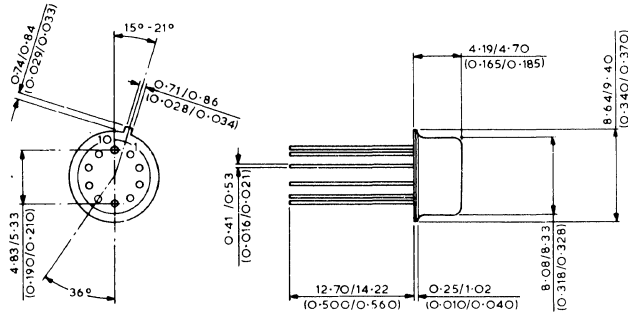
CN7

DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	8.51	9.40	0.335	0.370
B	7.75	8.51	0.305	0.335
C	4.19	4.70	0.165	0.185
D	0.41	0.48	0.016	0.019
E	0.25	1.02	0.010	0.040
F	0.25	1.02	0.010	0.040
G	5.08 BSC		0.200 BSC	
H	0.71	0.86	0.028	0.034
J	0.74	1.14	0.029	0.045
K	12.70	-	0.500	-
L	3.56	4.06	0.140	0.160
M	45° BSC		45° BSC	
N	2.41	2.67	0.095	0.105

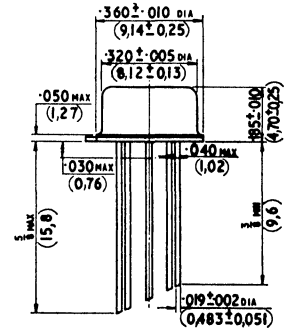
28. OUTLINE DRAWINGS

IN DRAWING NUMBER
SEQUENCE

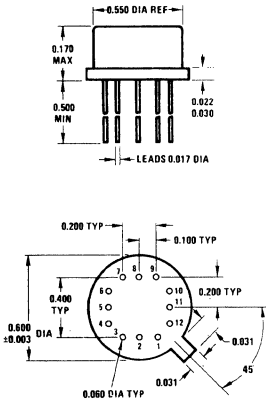
CN8



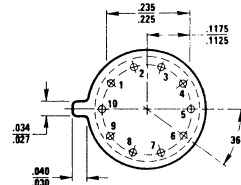
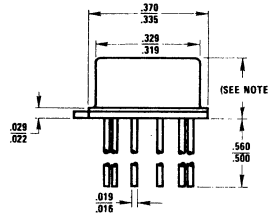
CN9



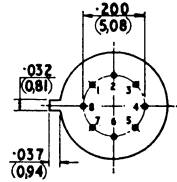
CN10



CN11



Dimension is 0.155/0.185 for all products except as follows: 0.260/0.290 for LH0001H/LH0001CH, LH0003/LH0003CH, and LH0004/LH0004CH; 0.240/0.260 for LH0005AH/LH0005H/LH0005CH; 0.180/0.210 for MH0007H/MH0007CH.

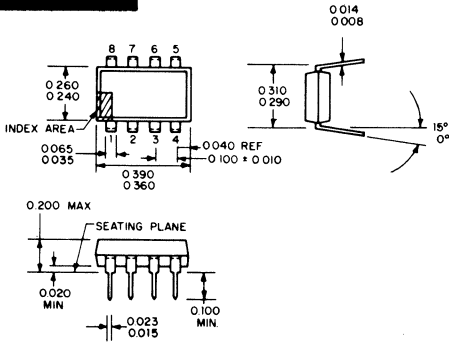


UNDERSIDE VIEW

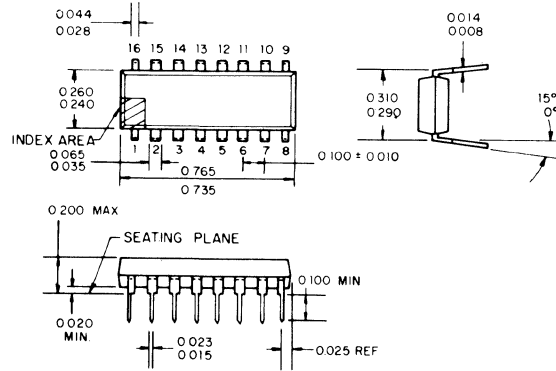
28. OUTLINE DRAWINGS

IN DRAWING NUMBER
SEQUENCE

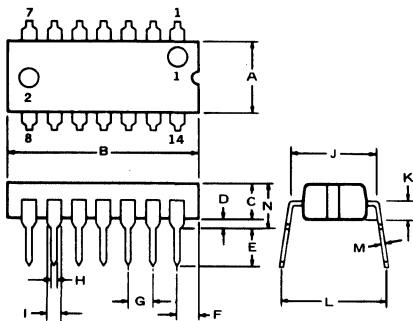
DL1



DL2

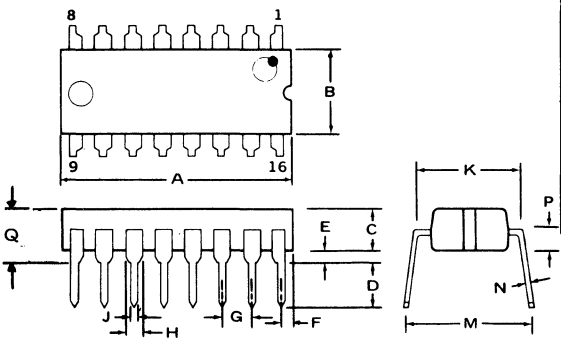


DL3



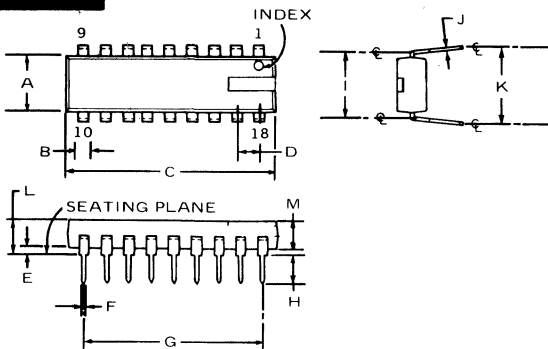
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	REMARKS
DL3	.240 .280	.740 .770		.015 MIN	.120 MIN		.090 .110	.015 .023	.040 .050	.290 .310		.008 .015	.325 .375	.160 MAX	Omit Hole 2, Hole 1 .050 Dia
DL3a	.245 .252	.745 .755	.116 .125	.015 .035	.120 .135	.065 .085	.090 .110	.015 .021	.044 .052	.290 .310	.057 .068	.010 .015	.325 .375		
DL3b	.250	.695	.100	.030	.175			.019		.300	.055				
DL3c	.245 .260	.745 .760	.180 MAX	.020 MIN	.125 MIN		.090 .110	.018 .022		.290 .310		.375 NOM		.200 MAX	
DL3d	.250 .280	.760 .785	.180 MAX	.020 MIN	.125 MIN		.090 .110	.020 .020		.290 .310		.375 NOM	.009 .011	.200 MAX	
DL3e		.767 MAX		.020 MIN	.120 .153	.086 MAX	.100	.014 .020	.047	.324		.300 .374	.009 MAX	.185 MAX	Notch Instead Of Holes

DL4



	A	B	C	D	E	F	G	H	J	K	M	N	P	Q	REMARKS
DL4	.740 .770	.240 .280	.115 .125	.120 MIN	.015 MIN		.090 .110	.015 .023	.040 .050	.290 .310	.325 .375	.008 .015		.160 MAX	Index Dot and Notch Only
DL4a	.745 .755	.245 .252	.115 .125	.120 .135	.015 MIN	.020 .030	.090 .110	.015 .021	.044 .052	.290 .310	.325 .375	.010 .015	.057 .068		2 Holes Only
DL4b	.745 .755	.245 .252	.115 .125	.120 .135	.015 .035	.020 .030	.090 .110	.015 .021	.044 .052	.290 .310	.325 .375	.010 .015	.057 .068		Index Dot and Notch Only
DL4c	.740 .760	.245 .255	.135 TYP	.125 MIN	.020		.090 .110	.023 MAX	.290 .310	.375 NOM	.009 .011				
DL4d	.760 .785	.250 .280	.180 MAX	.125 MIN	.020 MIN		.090 .110	.023 MAX	.290 .310	.375 NOM	.009 .011				
DL4e	.750 .785	.240 .280	.185 MAX	.100 MIN	.015 MIN		.090 .110	.023 MAX	.290 .310	.375 NOM	.009 .011				
DL4f	.783 MAX	.250	.180	.120	.020 MIN		.100	.019	.300	.350	.019				Notch Only
DL4g	.787 MAX		.165 MAX	.120 .153	.020 MIN	.030 MAX	.100	.047 .020	.014 .020	.324	.300 .374	.009			Notch Only

DL5

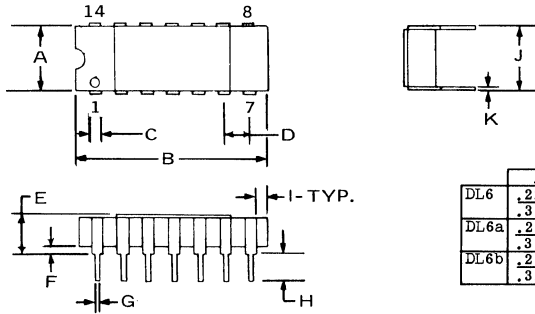


	A	B	C	D	E	F	G	H	I	J	K	L	M
DL5	.240 .280	.040 .060	.920 .970	.090 MIN	.015 MIN	.015 .023	.790 .810	.115 MIN	.290 .310	.008 .015	.325 .375	.160 MAX	
DL5a	.240 .260	.040 .065	.890 .920	.090 MIN	.015 MIN	.014 .023		.100 MIN	.325 .375	.008 .015	.300 .400	.200 MAX	
DL5b	.240 .260	.045 .065	.905 .925	.090 MIN	.015 MIN	.016 .024		.100 .150	.290 .279	.008 .012	.300 .330	.200 MAX	.140 .160
DL5c			.920 MAX	.100	.020 MIN	.017	.800	.130	.279 MAX	.010	.330	.200 MAX	
DL5d	.220 .280	.030 .070	.900 MAX	.110	.020 MIN	.015 .023		.100 MIN	.290 .310	.008 .015		.200 MAX	
DL5e	.250 TYP	.032 TYP	.900 TYP	.100	.020 MIN	.020 TYP		.125 MIN	.290 MIN	.010		.200 MAX	.180 MAX

28. OUTLINE DRAWINGS

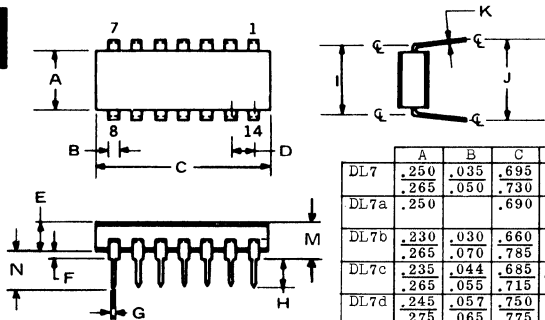
IN DRAWING NUMBER
SEQUENCE

DL6



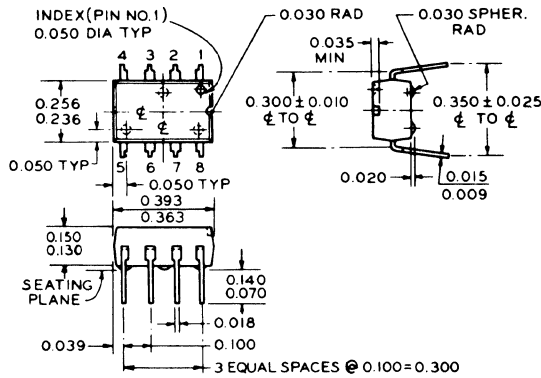
	A	B	C	D	E	F	G	H	I	J	K	REMARKS
DL6	.220 .310	.640 .786	.030 .070	.090 .110	.200 MAX	.015 .080	.014 .023	.125 .200	.010 .053	.290 .320	.008 .015	Notch or Dot at Mfr. Option
DL6a	.275 .310	.640 .786	.040 .070	.090 .110	.100 .200	.020 .050	.015 .023	.125 .160		.290 .320	.008 .012	Notch Only
DL6b	.280 .310	.690 .785	.045 .060	.090 .110	.030 .180	.015 .060	.015 .021	.125 .150		.290 .320	.008 .012	Dot Only

DL7

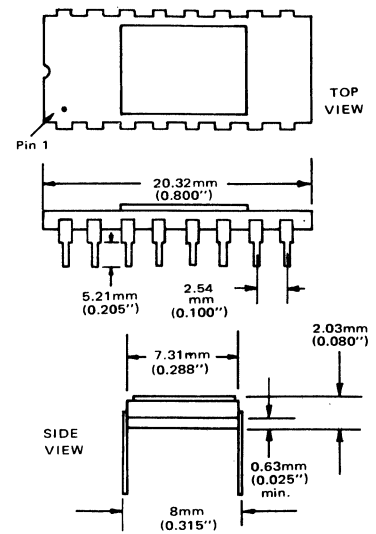


	A	B	C	D	E	F	G	H	I	J	K	M	N	REMARKS
DL7	.250 .265	.035 .050	.695 .730	.090 .110	.110 MAX	.050 MIN	.014 .020	.120 MIN	.300	.325 .375	.008 .010			Omit Det
DL7a	.250		.690	.100	.077	.055	.015	.135		.300				
DL7b	.230 .265	.030 .070	.660 .785	.090 .110	.180 MAX	.020 .080	.015 .023	.100 MIN	.290 NOM	.350 .310	.008 .011			
DL7c	.235 .265	.044 .055	.685 .715	.090 .110		.020 MIN	.017 .023		.290 .310	.290 .310		.150	.170	
DL7d	.245 .275	.057 .065	.750 .775		.155 MAX	.040 .055	.018 .022	.140 MAX	.290 .310		.009 .012			Notch .024R
DL7e	.275			.100	.104 MAX		.020		.300		.009			Omit Det
DL7f	.250		.765	.100	.077	.055	.015	.135	.300	.300				

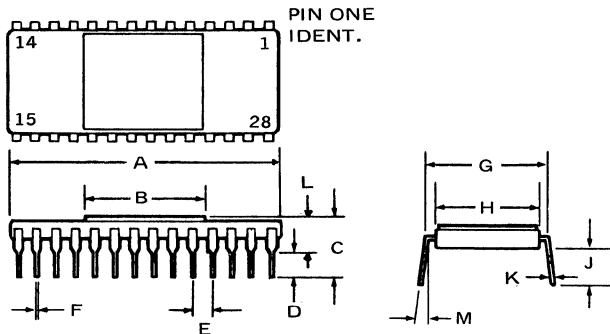
DL8



DL9



DL10

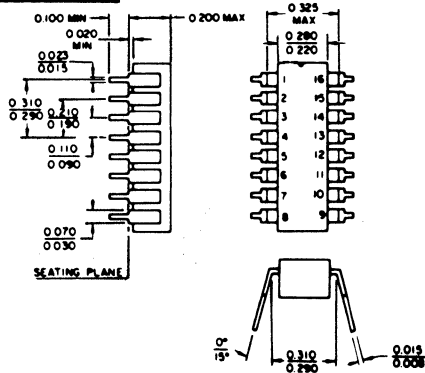


	A	B	C	D	E	F	G	H	J	K	L	M
DL10	1.40	.637	.285	.135	.100	.018	.600	.535	.170	.010	8° TYP	
DL10a	1.45 MAX	.637		.135	.100	.016 .020	.600 MAX	.550 MAX	.170	.008 .012	.185 MAX	8° TYP

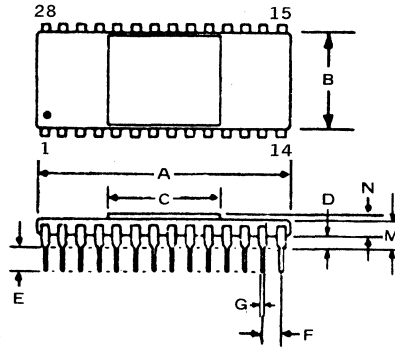
28. OUTLINE DRAWINGS

IN DRAWING NUMBER
SEQUENCE

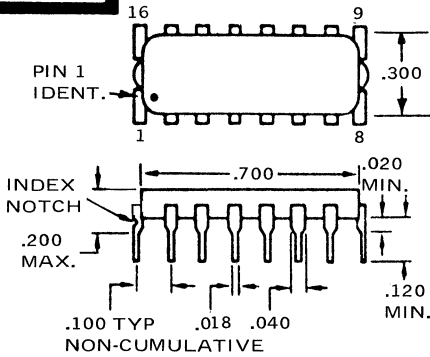
DL11



DL12

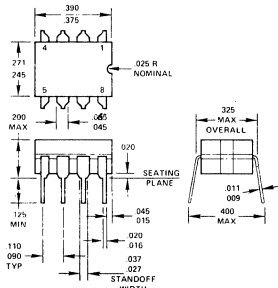


DL13

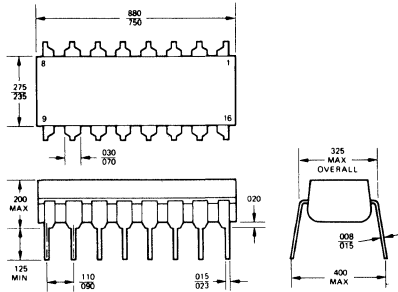


	A	B	C	D	E	F	G	H	J	K	M	N	REMARKS
DL12	1.45 MAX	.600	.637	.063 .087	.139	.100	.016 .020				.185 MAX	.115 MAX	Dot Only
DL12a	1.386 1.414	.582 .610		.045	.100 MIN	.100	.016 .019	.009 .012	.590	.010			Dot and Notch
DL12b	1.380 1.420	.568 .600		.020 .060	.125 .200	.090 .110	.015 .023				.100 .200	.400 .180	Notch Only

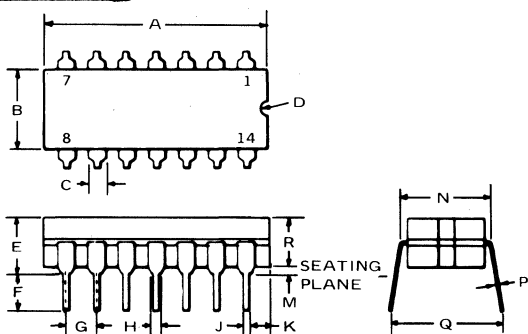
DL14



DL15



DL16

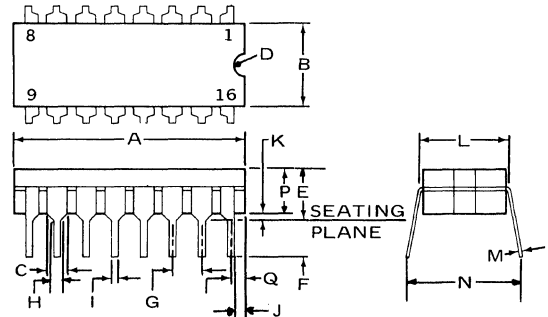


	A	B	C	D	E	F	G	H	J	K	M	N	P	Q	R
DL16	.750 .785	.245 .271	.045 .055	.025R NOM	.200 MAX	.100 .163	.090 .110 TYP	.022 .031	.016 .020	.065 .095	.015 MIN	.290 .310	.009 .011	.375 NOM	
DL16a	.750 .785	.240 .295	.055 .070		.200 MAX	.100 .160	.100 BSC		.015 .023	.075 .090	.020 .040	.290 .350	.008 .015	.360 .410	
DL16b	.785 MAX	.280 MAX	.055 .065	.025R	.200 MAX	.125 MIN	.090 .110		.016 .020	.065 .070	.015 .020	.290 .320	.008 .012	.360 .410	
DL16c	.750 .785	.245 .271	.045 .065	.025R NOM	.200 MAX	.100 .165	.090 .110	.027 .037	.016 .020	.065 .095	.015 MIN	.290 .310	.009 .011	.375 NOM	
DL16d	.75 .785	.310 MAX	.030 .070			.125 .165	.090 .110		.015 .023	.070 .098	.020 .040	.290 .320	.008 .014	.145 .175	
DL16e	.755 .785	.245 .286	.058 MIN			.115 .135	.100	.034 MAX	.018 .023	.065 .095	.015 .025	.308 .314	.009 .011	.350 .375	.135
DL16f	.798 MAX		.059 .071		.152	.118 MIN	.100		.016 .023	.011 MIN	.299 TYP	.009 .014	.299 .354	.141	
DL16g	.755 .785	.280 MAX			.165 .215	.125 .165	.090 .110		.015 .023	.070 .100	.020 .040	.290 .315	.008 .014		
DL16h	.740 .780	.240 .270	.057 .063		.170 .200	.115 .135	.090 .110		.015 .020	.070 .090	.005 .065	.290 .325	.008 .012	.135 .165	
DL16j	.745 .770	.240 .260			.120 .200	.125 .150	.100		.014 .020		.020 .065	.300	.008 .012	.300 .325	

28. OUTLINE DRAWINGS

IN DRAWING NUMBER
SEQUENCE

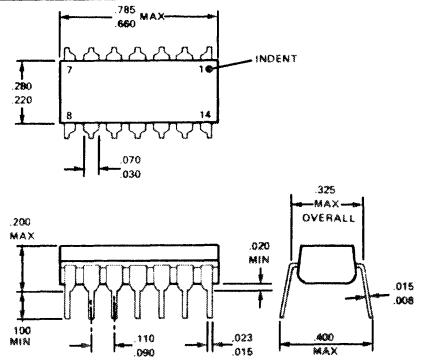
DL17



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q
DL17	.750 .785	.245 .271	.045 .065	.025R NOM	.200 MAX	.125 MIN	.090 .110 TYP	.027 .037	.016 .020	.015 .045	.020	.325 MAX	.009 .011	.400 MAX		
DL17a	.750 .785	.240 .295	.055 .070		.200 MAX	.100 MIN	.100 BSC		.015 .021	.020 .040	.020	.295 .350	.008 .012			
DL17b	.750 .780	.245 .275	.055 .065		.200 MAX	.125 MIN	.100 BSC		.015 .020	.020 .045	.020	.310 .350	.008 .012			
DL17c	.787 MAX	.275 MAX			.216 MAX	.118 MIN	.090 .109		.015 .023		.039	.279 .318	.007 .015	.299		
DL17d	.785 MAX	.280 MAX	.055 .065	.025 R	.200 MAX	.125 MIN	.090 .110		.016 .020	.050 MAX	.020 .070	.290 .320	.008 .012	.360 .410		
DL17e	.745 .785	.243 .263			.145 .188	.115 .135	.098 .102	.030 .034	.016 .020		.020	.300 CRS NOM	.010 .012			
DL17f	.750 .785	.245 .271	.045 .065	.025R NOM	.200 MAX	.100 MIN	.090 .110	.027 .037	.016 .020	.015 .045	.015 MIN	.290 .310	.009 .011	.375 NOM		
DL17g	.755 .785	.265 .291	.045 .065	.025R NOM	.170 .219	.100 MIN	.090 .110	.027 .037	.016 .020	.015 .045	.020 MIN	.290 .310	.009 .011	.375 NOM		
DL17h	.755 .785	.310 MAX	.030 .070		.125 MAX	.090 MIN	.090 .110		.015 .023	.015 .050	.020 .040	.290 .320	.008 .014		.145 .175	
DL17i	.750 .785	.265 .291	.045 .065		.200 MAX	.125 MIN	.090 .110	.015 .023	.010 MIN	.015 .080	.020 .320	.290 .310	.009 .011	.380 NOM		
DL17j	.755 .785	.308 .314	.058 MIN		.145 .169	.115 .135	.100 MAX	.034 MAX	.018	.015 .045	.015 .025	.308 .314	.009 .011	.350		
DL17k	.799 MAX		.059		.199 MAX	.099 MAX	.149		.100	.014 MAX	.049 MAX	.324 MAX	.007 .011	.299		
DL17m	.787 MAX	.275 MAX			.220 MAX	.129	.100		.107		.020 MIN		.009	.409		
DL17n	.787 MAX	.279 MAX			.199 MAX	.125	.100		.019	.019	.019	.299 MAX		.374 MAX		
DL17p	.759 MAX		.059 MAX	.059 SQ	.135 MAX	.100			.018			.299 MAX		.129 MAX	.029 MAX	
DL17q	.798 MAX				.196 MAX	.118 MIN	.100	.059 .071	.016 .023	.049 MAX	.020 MIN	.299 TYP	.009 .014	.299 .354		
DL17r	.755 .785	.280 MAX			.165 .215	.125 .165	.090 .110	.070 MAX	.015 .023	.015 .050	.020 .040	.290 .315	.008 .014	.325 .395		
DL17s	.759	.248	.051		.199 MAX	.110 MIN	.090 .110		.018 .019	.018 MIN	.019 MIN	.300 MIN	.008 .015			
DL17t	.759	.267	.051		.199 MAX	.110 MAX	.090 .110		.018 .019	.018 MIN	.019 MIN	.300 MIN	.008 .015			
DL17u	.787 MAX				.200 MAX	.130	.100		.018		.020 MIN	.275 MAX	.010	.409		
DL17v	.740 .785	.240 .280	.035 .065		.150 MAX	.125 .165	.090 .110		.015 .023	.020 .040	.290 .310	.008 .012				
DL17w	.750 .785	.285 .291	.045 .065	.025R NOM	.200 MAX	.125 MIN	.100 TYP	.027 .037	.016 .020	.098 MAX	.015 .060	.290 .310	.009 .011			

[Empty box]

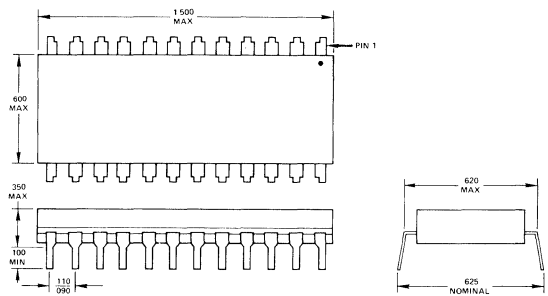
DL18



[Empty box]

[Empty box]

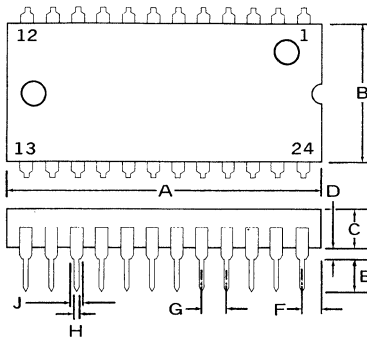
DL19



28. OUTLINE DRAWINGS

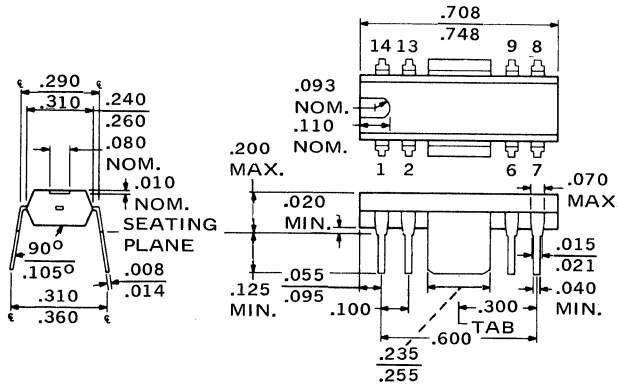
IN DRAWING NUMBER
SEQUENCE

DL20

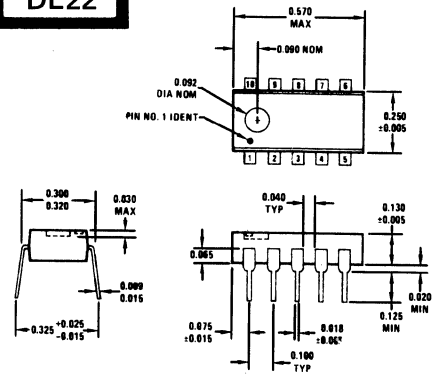


	A	B	C	D	E	F	G	H	J	K	L	M	N	REMARKS
DL20	1.240	.545	.145	.020	.120	.065	.090	.015	.044	.590	.625	.065	.010	Omit 2 Holes
	1.250	.555	.155	.045	.136	.085	.110	.021	.052	.610	.675	.075	.015	
DL20a	1.240	.545	.145	.020	.120	.065	.090	.015	.044	.590	.625	.065	.010	
	1.255	.555	.155	.045	.135	.085	.110	.021	.052	.610	.675	.075	.015	
DL20b	1.260	.620	.130		.205	.080	.100	.019		.620			.010	Omit 2 Holes
	MAX	MAX	MAX		MAX	MAX		MAX						

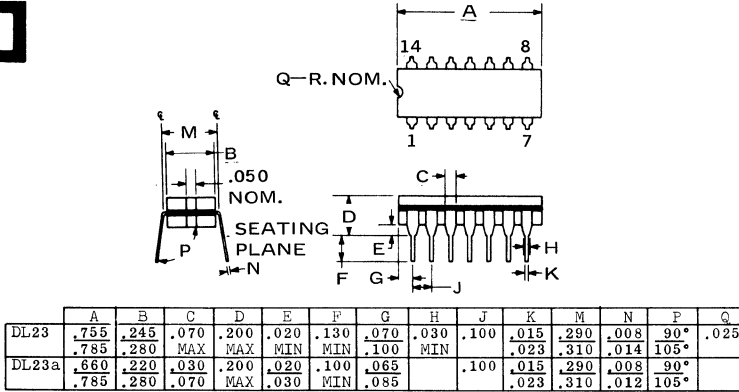
DL21



DL22

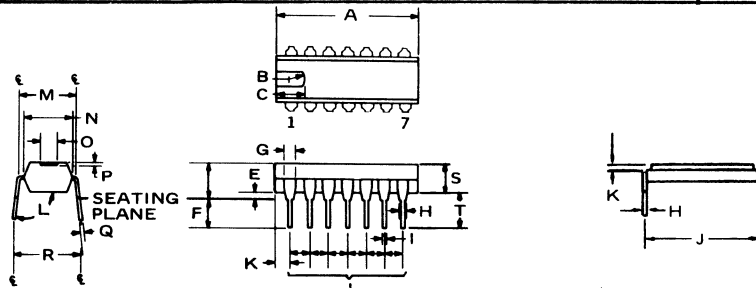


DL23



	A	B	C	D	E	F	G	H	J	K	M	N	P	Q
DL23	.755	.245	.070	.200	.020	.130	.070	.030	.100	.015	.290	.008	90°	.025
	.785	.280	MAX	MAX	MIN	MIN	.100	MIN	.023	.310	.014	105°		
DL23a	.660	.220	.030	.200	.020	.100	.065		.100	.015	.290	.008	90°	
	.785	.280	.070	MAX	.030	MIN	.085			.023	.310	.012	105°	

DL24

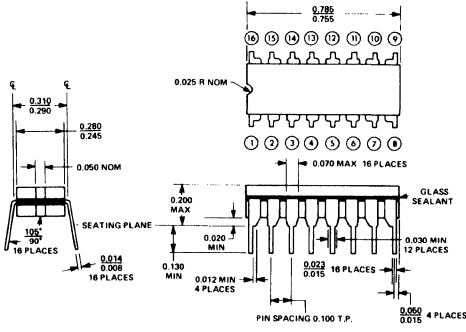


	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R	S	T	REMARKS
DL24	.710	.093R	.110	.200	.020	.125	.070	.033	.015	.100	.055	90°	.290	.240	.080	.010	.008	.325		
	.770			MAX	MIN	MIN	MAX	MIN	.021	.096	105°	.310	.260			.014	.290	.115	.135	Square Index Point
DL24a	.760				.015		.060		.015	.090	.065		.290	.245		.015	.290	.115	.135	
	.780				.035		.054		.021	.110	.085		.310	.255		.020	.310	.125	.165	
DL24b	.787			.200	.020	.129			.017	.100			.279			.009	.329			
	MAX			MAX	MAX	MAX							MAX							
DL24c	.748			.195	.019	.110		.045	.019	.100	.074		.251	.098		.009	.299			
				MAX	MIN	MIN														
DL24d	.771			.200	.019	.125	.059		.019	.100	.094		.287	.240		.011	.301			
	MAX			MAX	MAX	MIN	MAX			MAX			.311	.263			.348			

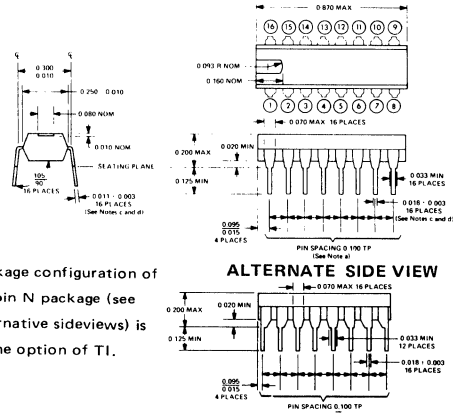
28. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

DL25

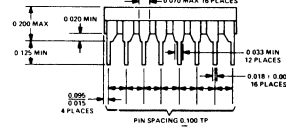


DL26

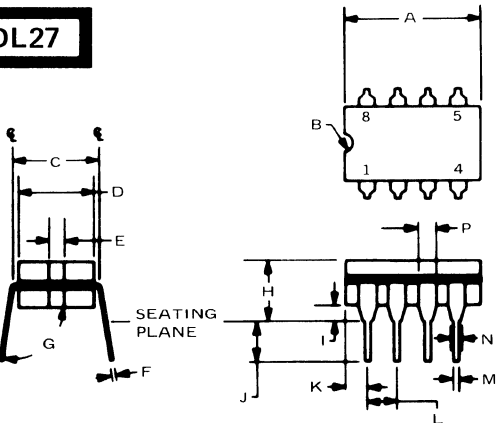


Package configuration of 16-pin N package (see alternative sideviews) is at the option of TI.

ALTERNATE SIDE VIEW

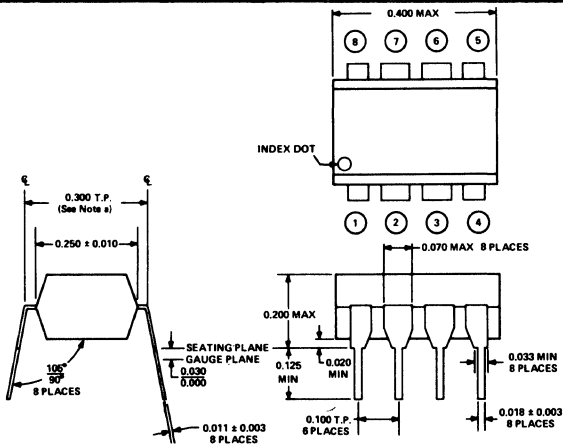


DL27



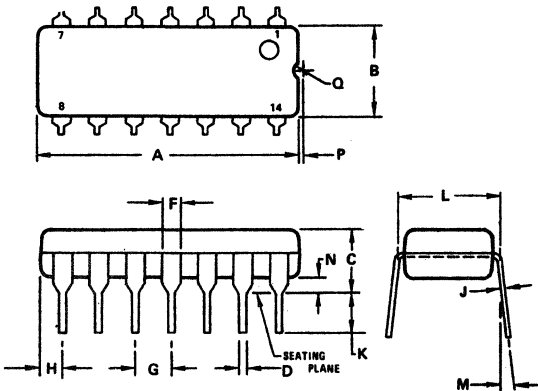
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P
DL27	.355 .400	.025R NCM	.290 .310	.245 .280	.050 NCM	.008 .014	90° 105°	.200 MAX	.020 MIN	.130 MIN	.015 .055	.100	.015 .023	.030 MIN	.070 MAX
DL27a	.376 .384	.025R NCM	.290 .320	.045 .065		.009 .011		.200 MAX	.015 MIN	.125 MIN		.090 .110	.016 .020	.029 .035	.045 .065
DL27b	.401 MAX		.291 .307	.244 .251				.157 MAX	.019 MIN	.122 MIN	.051	.100	.017		.059
DL27c	.380		.300	.250		.010		.150 MIN	.020 MIN	.120 MIN	.040	.100	.018		
DL27d	.433 MAX		.030	.252		.010		.200 MAX		.125 MIN	.067 MAX		.020		

DL28



DL29

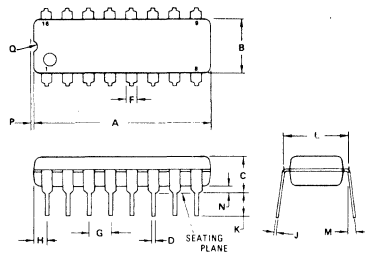
DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	18.16	18.80	0.715	0.740
B	6.10	6.60	0.240	0.260
C	4.06	4.57	0.160	0.180
D	0.38	0.51	0.015	0.020
F	1.02	1.52	0.040	0.060
G	2.54	BSC	0.100	BSC
H	1.32	1.83	0.052	0.072
J	0.20	0.30	0.008	0.012
K	2.92	3.43	0.115	0.135
L	7.37	7.87	0.290	0.310
M	-	10°	-	10°
N	0.51	1.02	0.020	0.040
P	0.13	0.38	0.005	0.015
Q	0.51	0.76	0.020	0.030



28. OUTLINE DRAWINGS

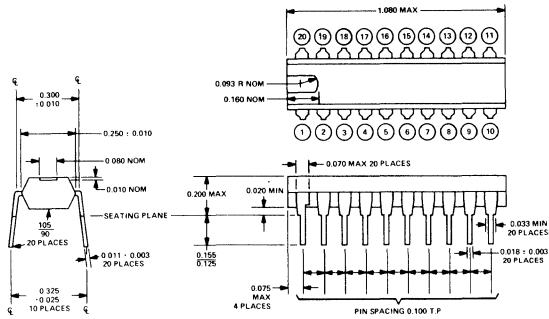
IN DRAWING NUMBER
SEQUENCE

DL30

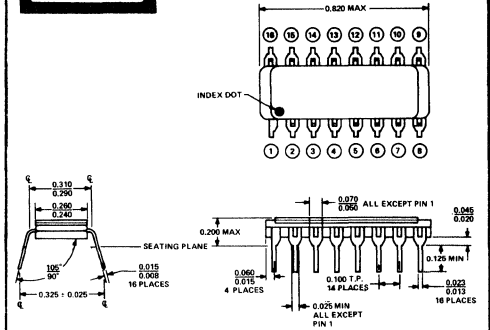


	A	B	C	D	F	G	H	J	K	L	M	N	P	Q
DL30	.815 .840	.240 .260	.160 .180	.015 .020	.040 .060	.100 BSC	.052 .072	.008 .012	.115 .135	.200 .310	10°	.020 .040	.005 .015	.020 .030
DL30a	.795 MAX	.255 MAX	.196 MAX	.015 .023		.090 .109		.007 .013	.118 MIN	.288 .311		.019		
DL30b	.795 MAX	.245 .255	.140 MAX	.016 .022				.010 .015	.145 .300			.018	.031	.031
DL30d	.870 MAX	.220 .280	.200 MAX	.015 .023	.070 TYP			.008 .015	.100 MIN		0° 15°	.020 MIN		

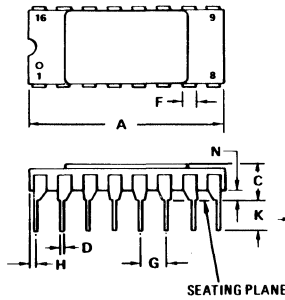
DL31



DL32



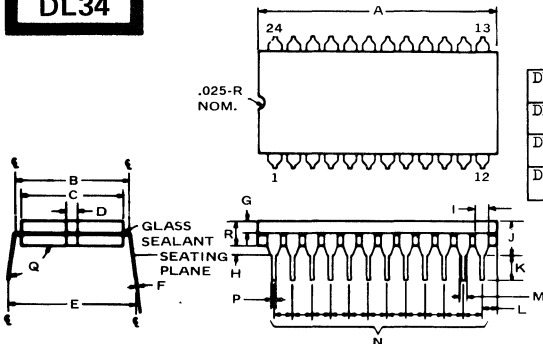
DL33



DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	18.80	19.23	0.740	0.757
C	2.67	3.94	0.105	0.155
D	0.41	0.51	0.016	0.020
F	1.14	1.40	0.045	0.055
G	7.54 BSC		0.100 BSC	
H	0.51	0.71	0.020	0.028
J	0.20	0.31	0.008	0.012
K	3.56	4.83	0.140	0.190
L	7.62 BSC		0.300 BSC	
M	10°		10°	
N	0.64	1.14	0.025	0.045

NOTE
1. LEADS WITHIN 0.13 mm (0.005) RADIUS OF TRUE POSITION AT SEATING PLANE AT MAXIMUM MATERIAL CONDITION.

DL34

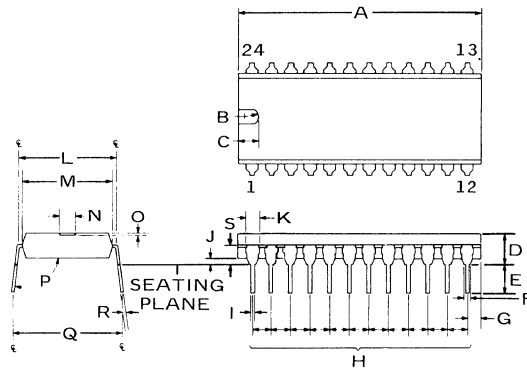


	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q	R
DL34	1.235 1.290	.590 .610	.515 .560	.050	.600 .650	.008 .012	.050 .075	.020 .070	.070 MAX	.150 .200	.125 .160	.060 .100	.028 MIN	.100	.016 .020	90° 105°	
DL34a	1.232 1.311	.602	.515 .574		.748 MAX	.009 .011		.020 MIN		.200	.149 MIN			.100	.014 .020		.125 .209
DL34b	1.31 MAX	.600	.574 MAX		.374 MAX			.019 MIN		.199 MIN	.196 MAX			.100	.019 MAX		
DL34c	1.140 1.290	.590 .620	.515 .610			.008 .015		.015 .080	.030 .070		.125 .200			.100	.014 .023		.200 MAX

28. OUTLINE DRAWINGS

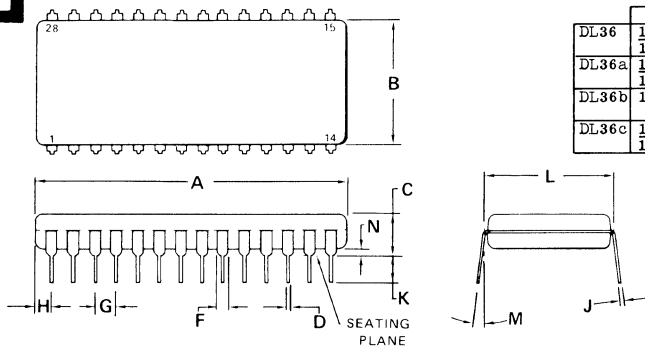
IN DRAWING NUMBER SEQUENCE

DL35



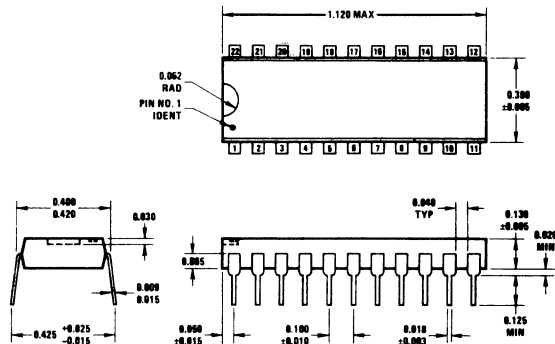
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q	R	S	REMARKS
DL35	1.310 MAX	.093R	.110	.200 MAX	.125 MIN	.033 MIN	.095 MAX	.100	.015 MIN	.020 MIN	.070 MAX	.590 MAX	.550	.080	90° 105°	.600 MAX	.011		
DL35a	1.245 1.255	.030 R		.175 MAX	.130			.100	.015 MIN	.020 REF	.040 MAX	.600 MAX	.550 MAX			.600	.010	.105	Index DOT
DL35b	1.037 1.314			.200 MAX	.125 MIN		.094 MAX	.100	.018 MIN	.019 MIN	.059 MAX	.590 MAX	.541 MAX			.602 MAX	.011		
DL35c	1.259			.200 MAX	.120 MAX		.086 MAX	.100	.014 MIN	.020	.059	.625				.602 MAX	.009		NOTCH

DL36



	A	B	C	D	F	G	H	J	K	L	M	N
DL36	1.430 1.470	.540 .560	.180 .200	.015 .020	.040 .060	.095 .105	.065 .085	.008 .012	.120 .140	.590 .610	0° 10°	.020 .040
DL36a	1.435 1.464		.200 MAX	.014 .020		.090 MAX	.085 MAX		.135 MAX	.599		.019 MIN
DL36b	1.490 MAX	.500 .545		.015 .020	.060	.100		.009 .012	.115 .165	.600	10° MAX	.015 .050
DL36c	1.430 1.480	.530 .560	.130 .180	.013 .023	.040	.100		.008 .012	.100 .150	.590 .610	0° 15°	.020 .040

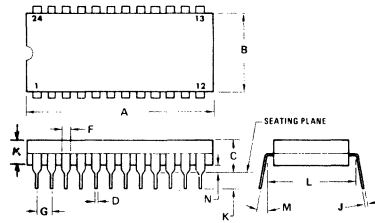
DL37



28. OUTLINE DRAWINGS

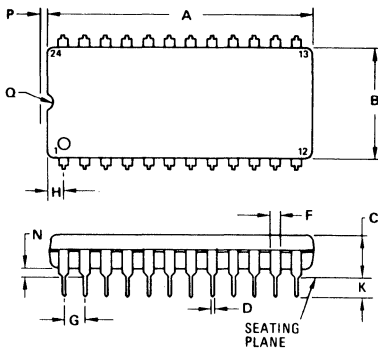
IN DRAWING NUMBER
SEQUENCE

DL38



	A	B	C	D	F	G	K	M	N	L	J	K	REMARKS
DL38	1.23 1.27	.500 .540	.160 .200	.016 .020	.050 .060	.100	.125 .160	5° 15°	.020 .030	.600 BSC	.008 .012		
DL38a	1.235 1.290 MAX	.560 MAX		.015 .023	.030 .070	.090 .110	.125 .165		.020 .055	.590 .620	.008 .014	.130 .180	
DL38b	1.235 1.290 MAX	.510 MAX	.200	.015 .023	.045 .065	.090 .110			.020 .060		.009 .011	NA	
DL38c	1.23 1.27	.500 .540	.160 .200	.016 .020	.050 .060	.100 BSC	.115 .135	5° 15°	.020 .030	.605 BSC	.008 .012	NA	

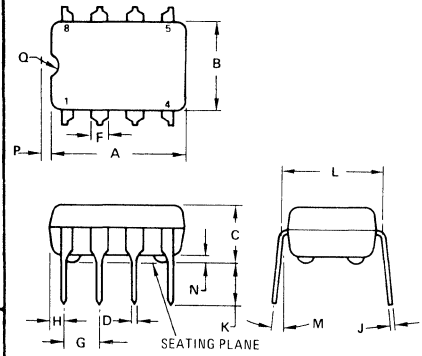
DL39



DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	31.50	32.13	1.240	1.265
B	13.21	13.72	0.520	0.540
C	4.70	5.21	0.185	0.205
D	0.38	0.51	0.015	0.020
F	1.02	1.52	0.040	0.060
G	2.54 BSC		0.100 BSC	
H	1.65	2.16	0.065	0.085
J	0.20	0.30	0.008	0.012
K	2.92	3.43	0.115	0.135
L	14.99	15.49	0.590	0.610
M	- 10°		- 10°	
N	0.51	1.02	0.020	0.040
P	0.13	0.38	0.005	0.015
Q	0.51	0.76	0.020	0.030

DIMENSION "L" TO CENTER OF LEADS WHEN FORMED PARALLEL.

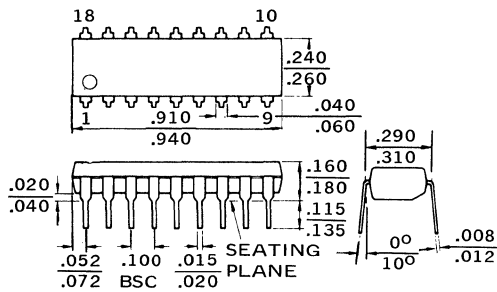
DL40



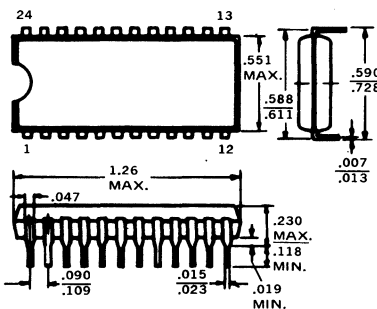
DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	9.40	10.16	0.370	0.400
B	6.10	6.60	0.240	0.260
C	3.94	4.45	0.155	0.175
D	0.38	0.51	0.015	0.020
F	1.02	1.52	0.040	0.060
G	2.54 BSC		0.100 BSC	
H	0.76	1.27	0.030	0.050
J	0.20	0.30	0.008	0.012
K	2.92	3.43	0.115	0.135
L	7.37	7.87	0.290	0.310
M	- 10°		- 10°	
N	0.51 NOM		0.020 NOM	
P	0.13	0.38	0.005	0.015
Q	0.76	1.02	0.030	0.040

DIMENSION "L" TO CENTER OF LEADS WHEN FORMED PARALLEL.

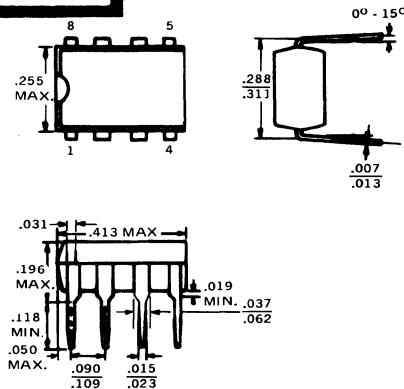
DL42



DL43



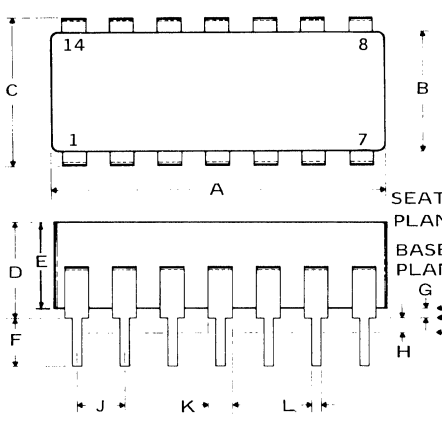
DL44



28. OUTLINE DRAWINGS

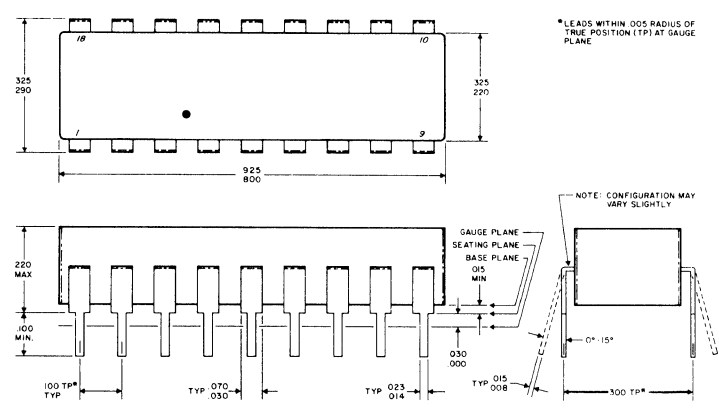
IN DRAWING NUMBER
SEQUENCE

DL45



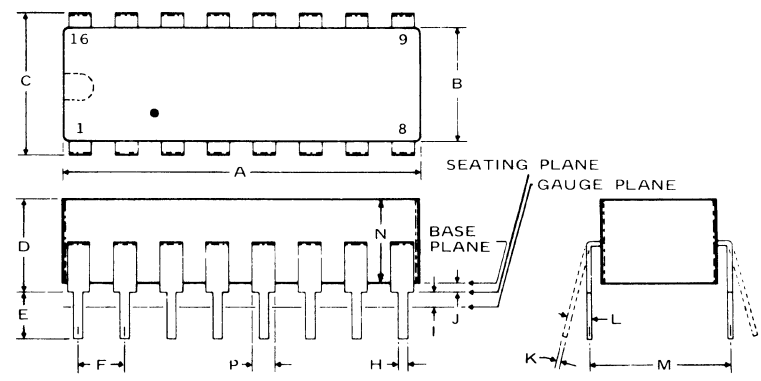
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	REMARKS	
DL45	.785 MAX	.220 .325	.240 .325	.220 MAX	.100 MIN	.015 MIN	.000 .030	.100 .070	.100 .030	.030 .023	.014 .015	.300 .015	.008 15°				
DL45a	.660 .785	.220 .280	.290 .320		.100 .200	.125 .080			.100	.030 .070	.015 .023		.008 15°	.010 .053		Index Notch or Dot	
DL45b	.785 MAX	.245 MAX	.290 .310	.175 MAX		.105 .145			.100	.060 .021	.015 .021		.008 .012	8°		Index Notch	
DL45c	.750 .785	.244 .271	.290 .320	.200 MAX		.125 .080			.090 .110	.045 .065	.015 .023	.380 NOM	.009 .011			Index Notch	
DL45d	.767 MAX			.185 MAX		.104 .153			.100			.324 MAX		15° MAX		Index Notch	
DL45e	.696 MAX	.255 MAX	.299 MAX	.140 MAX		.144 .029			.100		.016 .021	.299				Index Notch	

DL46



DL46

DL47

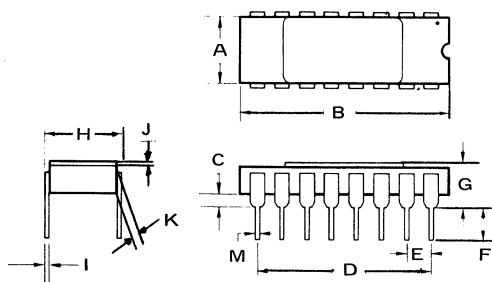


	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	REMARKS
DL47	.725 .825	.220 .325	.290 .325	.220 MAX	.100 MIN	.100	.030 .010	.014 .023	.000 .030	.015 MIN	.008 .015	0° 15°	.300			Dot Only
DL47a	.745 .884	.250		.200 MAX	.121 .150	.100	.070 MAX	.014		.020 MIN	.012	0° 15°	.300 MAX	.179 MAX		Notch and Dot
DL47b	.750	.250				.100							.300	.100	.700	Dot Only
DL47c	.866			.185 MAX	.104 .153	.100				.039 MIN		15° MAX	.324 MAX			Index Notch
DL47d	.745 .785	.240 .260	.300 .325	.120 .200	.125 .150	.100		.014 .020		.020 .065	.008 .012		.300			

28. OUTLINE DRAWINGS

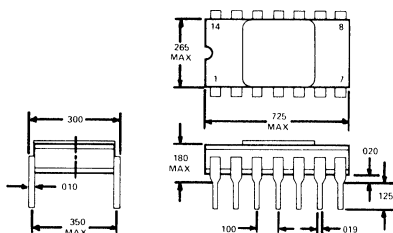
IN DRAWING NUMBER
SEQUENCE

DL61

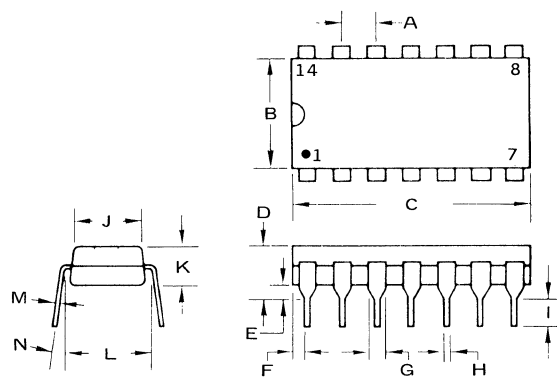


	A	B	C	D	E	F	G	H	I	J	K	M
DL61	.294	.808	.015	.695	.095	.130	.194	.300	.008	.050	0°	
	MAX	MAX	MIN	.705	.105	TYP	.139	TYP	.012	MAX	15°	
DL61a	.282	.792	.025			.170					NA	
	.294	.808	.045				MAX	.306	.012			
DL61b	.294	.808	.015	.695	.095	.130	.194	.300	.008	.050	NA	
	MAX	MAX	MIN	.705	.105	TYP	MAX	TYP	.012	MAX		
DL61c	.288	.800	.035			.100	.195	.300	.010			.018
						TYP	MIN					
DL61d	.300	.808	.025	.695	.095	.130	.150	.290	.008	.050		
	MAX	MAX	.045	.705	.105		MAX	.310	.012	MAX		
DL61e	.320	.780	.050	.700		.100	.130	.080	.300			.017
	MAX	MAX										

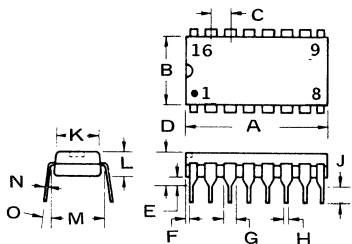
DL62



DL63



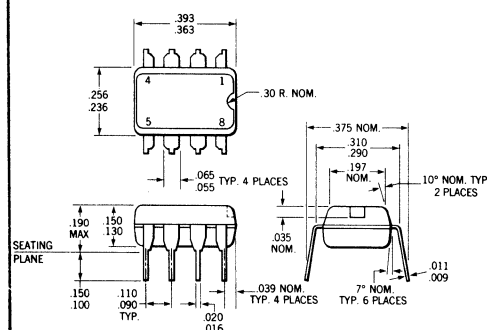
DL64



	A	B	C	D	E	F	G	H	I	J	K	L	M	N
DL63	.092	.250	.760	.180	.040	.020	.060	.020	.130	.235	.130	.300	.010	7°
	.108		.765	MAX	TYP		TYP	TYP				NOM	TYP	
DL63a	.092	.250	.760	.180	.040	.050	.060	.020	.130	.235	.130	.300	.010	7°
	.108		.765	MAX	TYP		TYP	TYP				NOM	TYP	
DL63b	.090	.245	.745	.200	.020			.018	.125			.325	.009	
	.110	.255	.755	MAX	NOM			.022	MIN			.375	.011	
DL63c	.100	.240	.750	.200		.062		.015	.125			.300	.008	0°
		.280	MAX	MAX				.023	MIN			.360	.015	15°

	A	B	C	D	E	F	G	H	J	K	L	M	N	O
DL64	.760	.250	.092	.180	.040	.020	.060	.020	.130	.235	.130	.300	.010	7°
	TYP		.108	MAX	TYP		TYP	TYP				NOM	TYP	
DL64a	.745	.245	.090		.020			.018	.125		.125	.290	.009	NA
	.755	.255	.110		MIN			.022	MIN		.135	.300	.011	

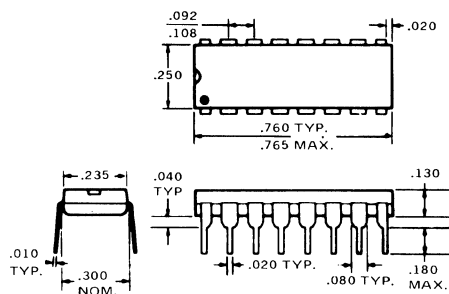
DL65



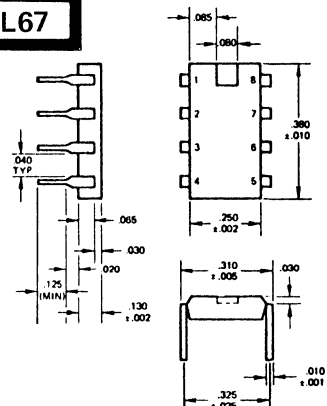
28. OUTLINE DRAWINGS

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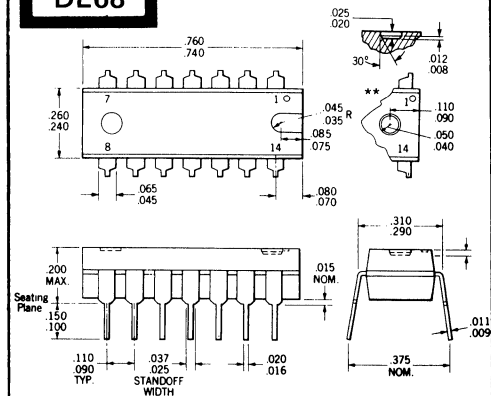
DL66



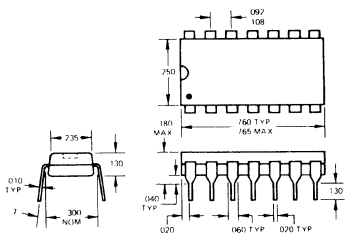
DL67



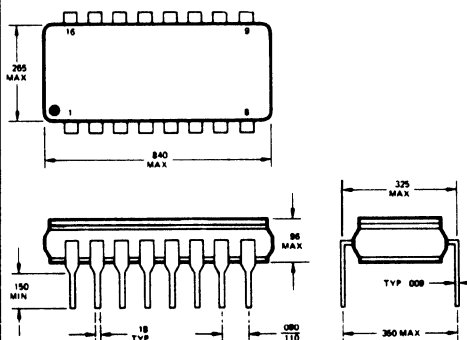
DL68



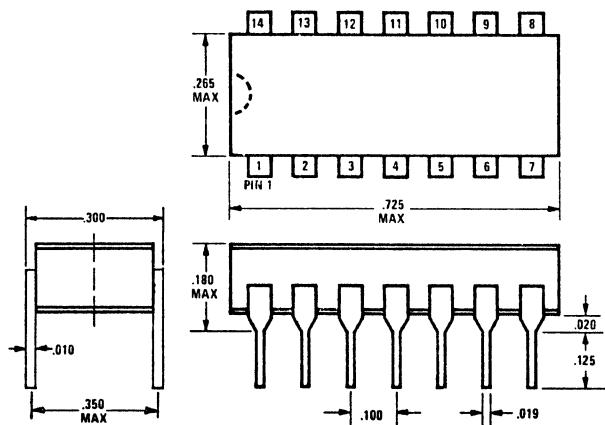
DL69



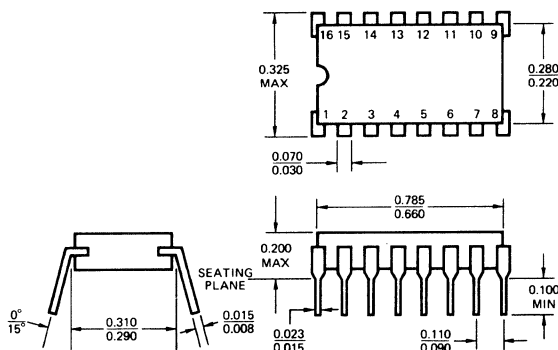
DL70



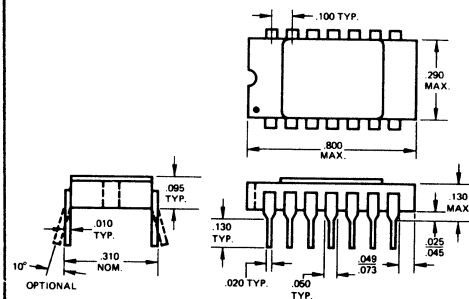
DL71



DL72



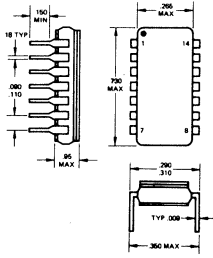
DL73



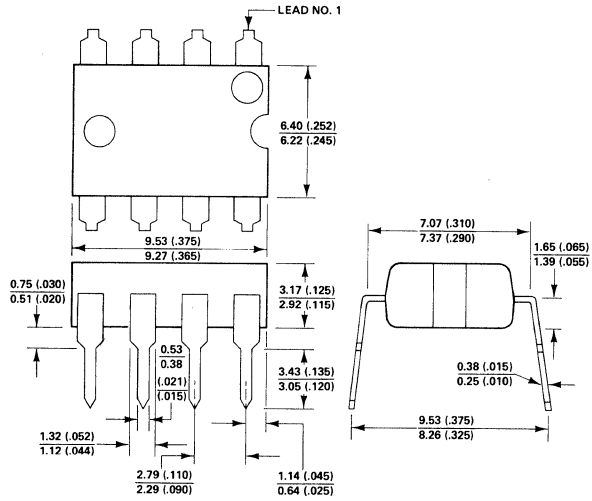
28. OUTLINE DRAWINGS

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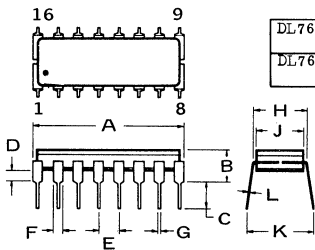
DL74



DL75

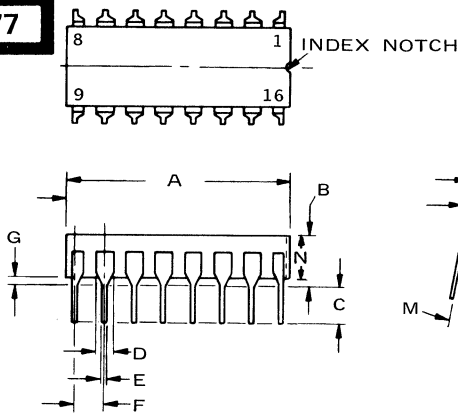


DL76



	A	B	C	D	E	F	G	H	J	K	L
DL76	.730	.200	.100	.020	.090	.030	.015	.290	.230	.350	.008
	.770	MAX	MIN	.080	.110	.070	.023	.310	.265	NOM	.015
DL76a	.680	.200	.100	.020	.090	.035	.015	.290	.235	.325	.009
	.780	MAX	MIN	MIN	.110	.070	.023	.310	.265	.375	.011

DL77

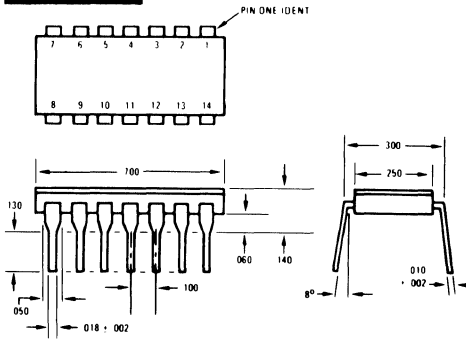


	A	B	C	D	E	F	G	H	J	K	M	N	REMARKS
DL77	.765	.175	.125	.060	.015	.100	.025	.248	.300	.008	8°		
			.145		.021					.012			
DL77a	.760	.175	.125		.015	.100	.020	.270	.300	.007	0°	.150	
			.145		.021		MIN			.013	15°		
DL77b	.700	.110	.125	.030	.015	.090	.020	.230	.290	.008	0°		No Notch
	.785	.200	.150	.070	.023	.110	.050	.270	.310	.012	15°		
DL77c	.785	.200	.100	.070	.016		.020	.230		.008	0°		
	MAX	MAX	MIN	MAX	.023		MIN	.265		.014	15°		

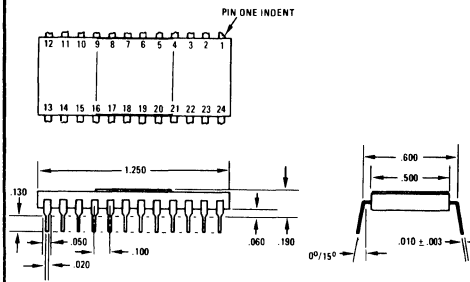
28. OUTLINE DRAWINGS

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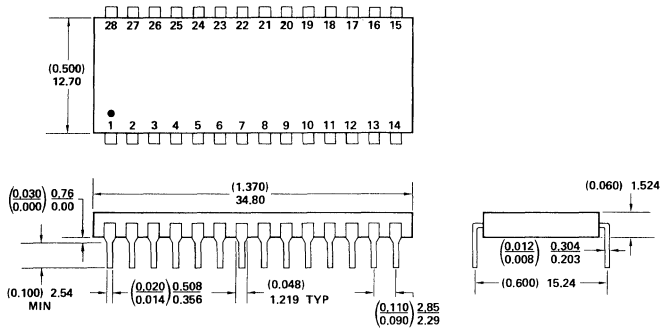
DL78



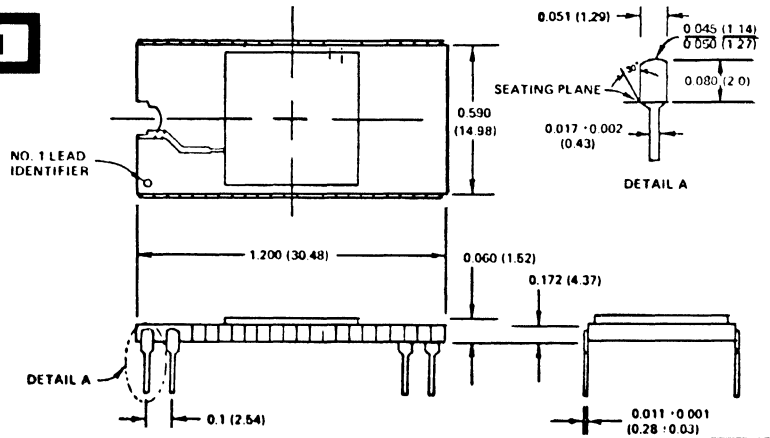
DL79



DL80



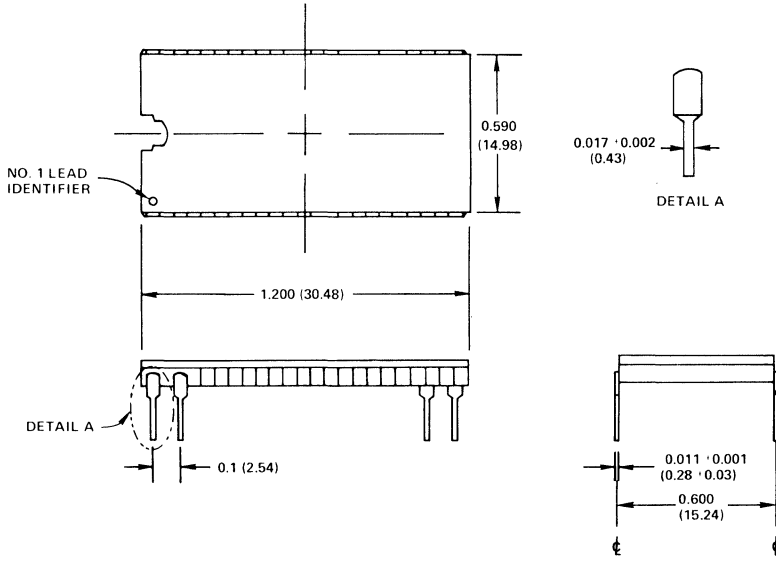
DL81



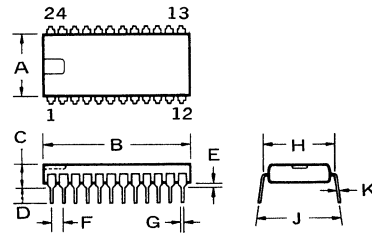
28. OUTLINE DRAWINGS

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SEQUENCE

DL82

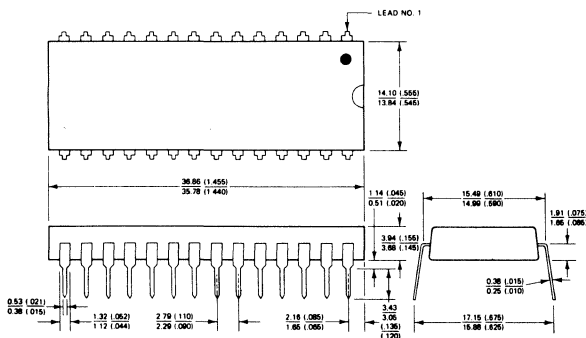


DL83



	A	B	C	D	E	F	G	H	J	K
DL83	.525 .535	1.245 1.255	.200 MAX	.125 MIN	.020 NOM	.090 .110	.018 .022	.585 .595	.625 .675	.009 .011
DL83a	.525 .535	1.245 1.255	.170 MIN	.125 MIN	.020 NOM	.090 .110	.018 .022	.585 .595	.625 .675	.009 .011

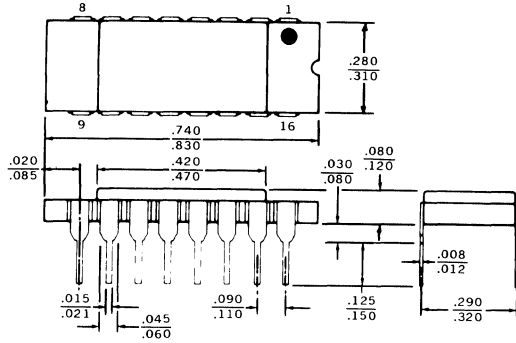
DL84



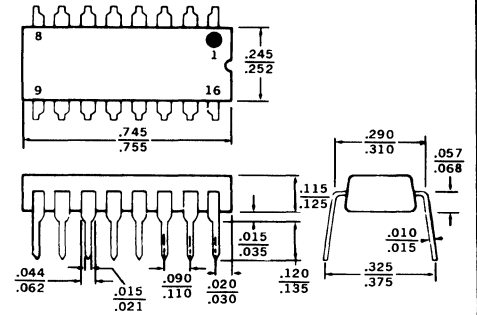
28. OUTLINE DRAWINGS

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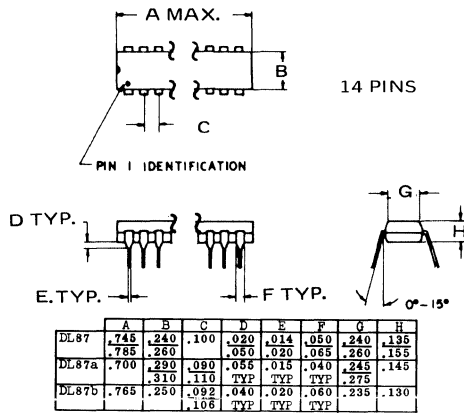
DL85



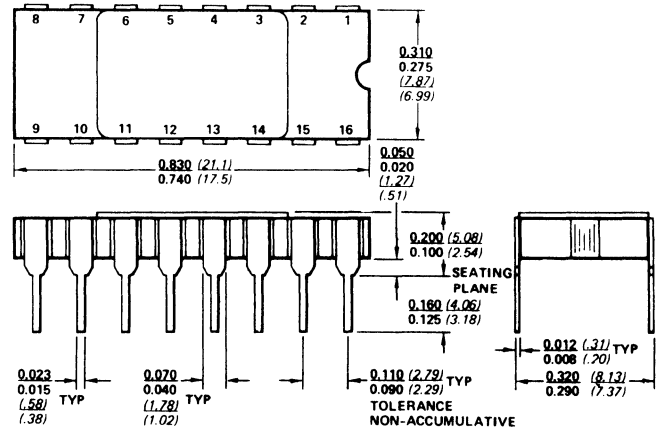
DL86



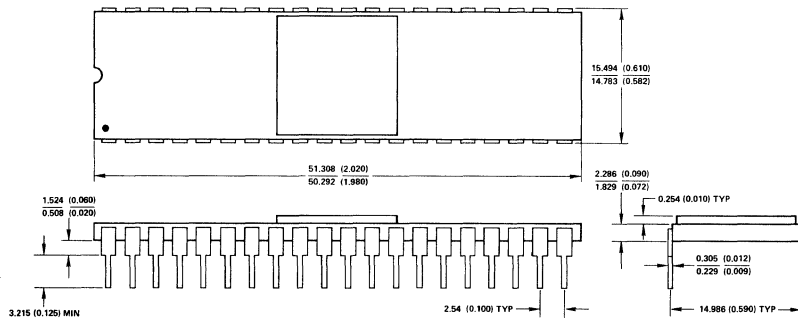
DL87



DL88



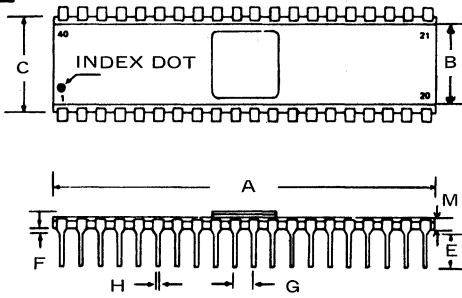
DL89



28. OUTLINE DRAWINGS

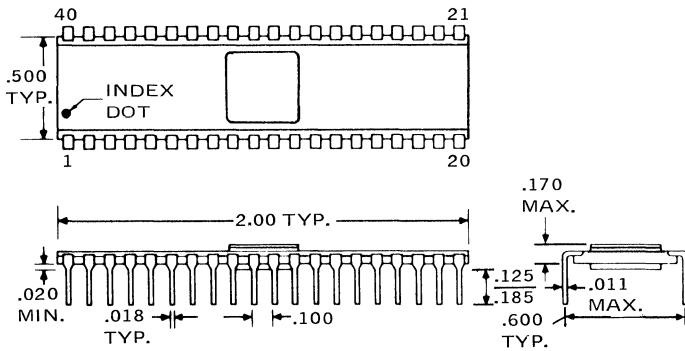
IN DRAWING NUMBER
SEQUENCE

DL90

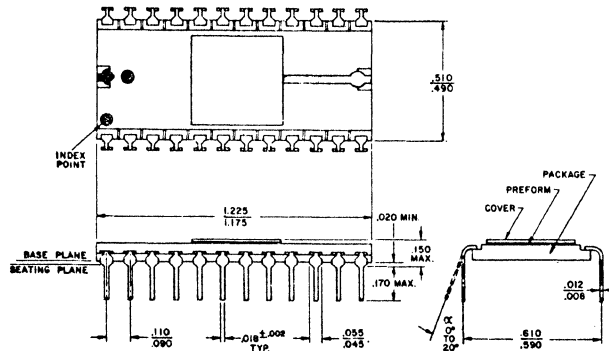


	A	B	C	D	E	F	G	H	J	K	M
DL90	2.000 TYP	.500 TYP	.130	.125 TYP	.020 MIN	.100 TYP	.018 TYP	.600 TYP	.011 MAX	.120	
DL90a	1.970	.460	.500	.188		.100 TYP	.015 TYP	.600	.009 MAX	.070	

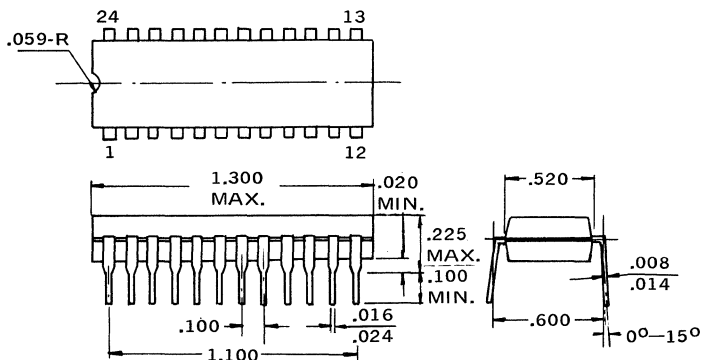
DL91



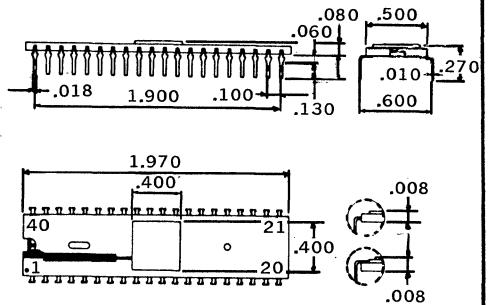
DL92



DL93



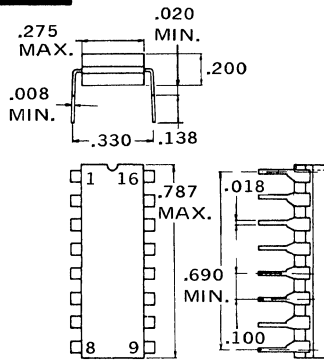
DL94



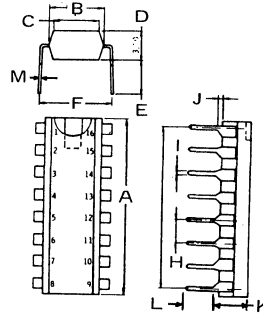
28. OUTLINE DRAWINGS

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SEQUENCE

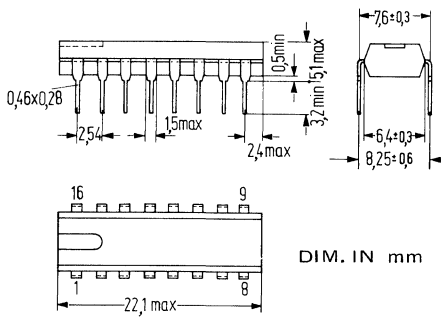
DL95



DL96



DL97



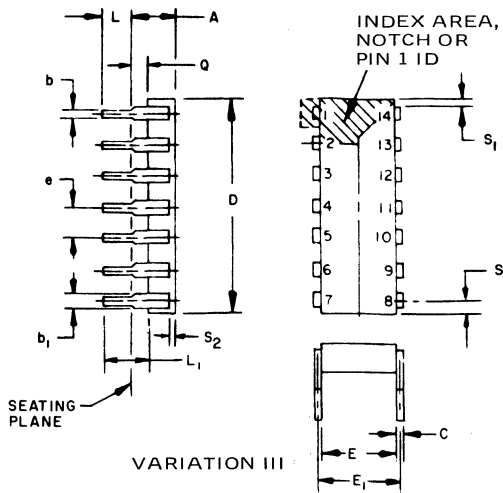
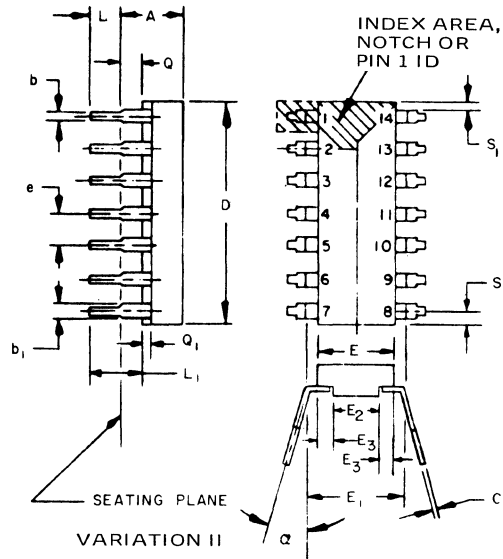
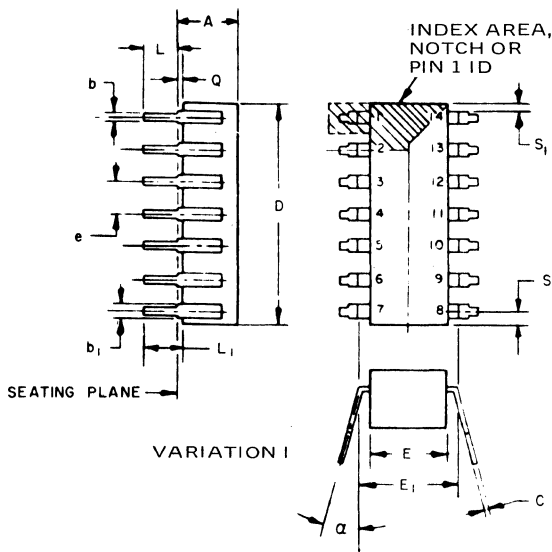
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	REMARKS
DL96	.787 MAX	.255 MAX	.209	.129	.159	.329	.699	.100	.107	.029			.009			
DL96a	.787 MAX	.279 MAX				.329	.699	.100	.017	.020	.200 MAX	.129	.009			Dotted Tab
DL96b	.748 MAX	.251 MAX				.299	.699	.100	.019 MIN	.019 MAX	.199 MIN	.110	.009	.045	.098	
DL96c	.779 MAX	.244 MAX				.291 MAX		.100	.017 MIN	.019 MAX	.181 MAX	.122 MAX				Dotted Tab



28. OUTLINE DRAWINGS

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DL98

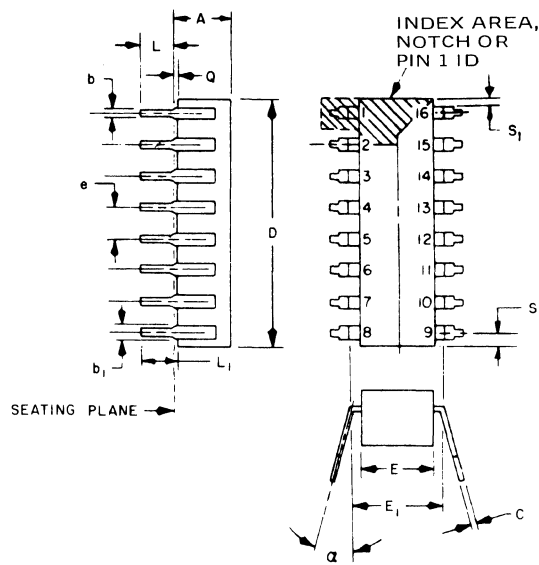


SYMBOL	INCHES		MILLIMETERS		NOTES
	MIN	MAX	MIN	MAX	
A		.200		5.08	
b	.014	.023	.36	.58	8
b ₁	.030	.070	.76	1.78	2, 8
c	.008	.015	.20	.38	8
D		.796		20.22	4
E	.220	.310	5.59	7.87	4
E ₁	.290	.320	7.37	8.13	7
E ₂	.100		2.54		
E ₃	.050		1.27		
e	.100 BSC		2.54 BSC		5, 9
L	.125	.200	3.18	5.08	8
L ₁	.150		3.81		
Q	.015	.060	.38	1.52	3
Q ₁	.020		.51		
S		.098		2.49	6
S ₁	.005		.13		6
S ₂	.005		.13		8
α	0°	15°	0°	15°	

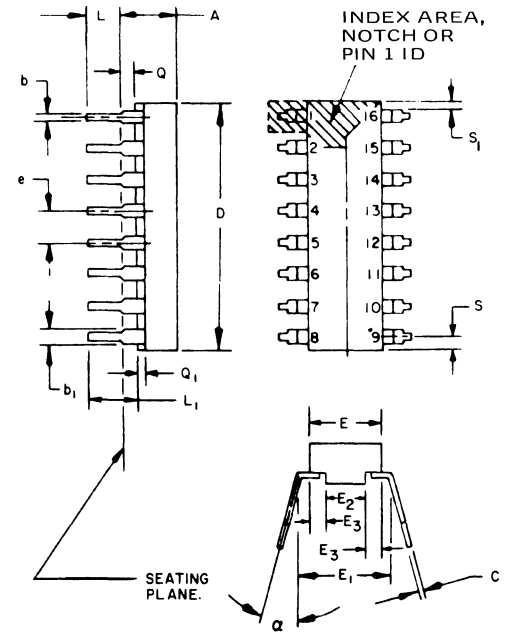
28. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

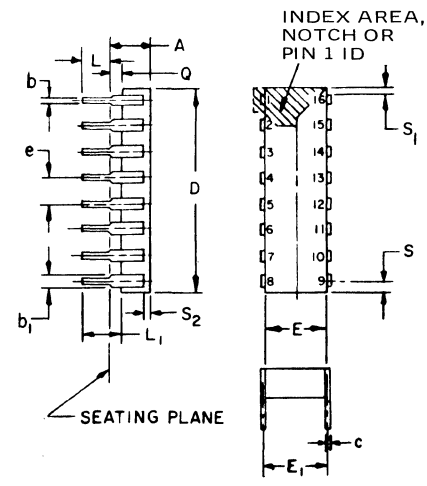
DL99



VARIATION I



VARIATION II



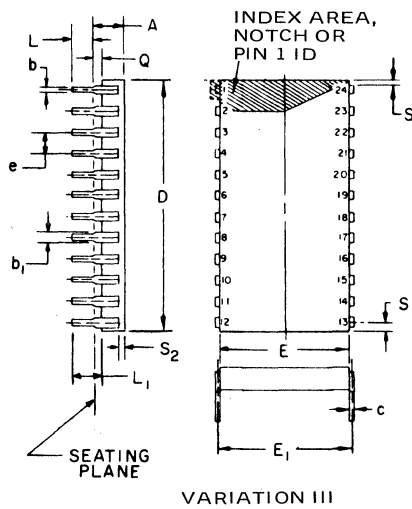
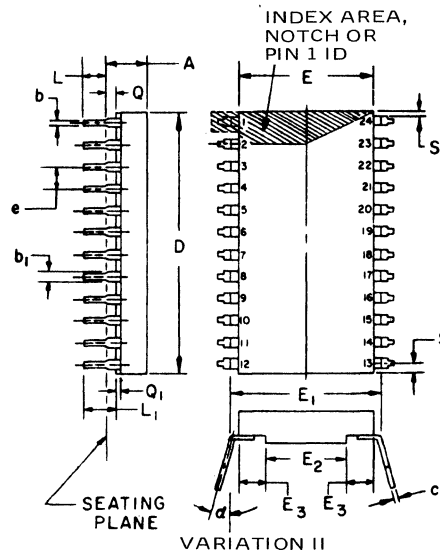
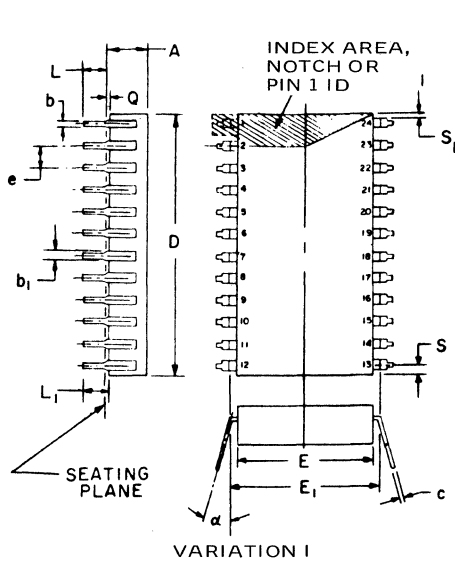
VARIATION III

SYMBOL	INCHES		MILLIMETERS		NOTES
	MIN	MAX	MIN	MAX	
A		.200		5.08	
b	.014	.023	.36	.58	8
b ₁	.030	.070	.76	1.78	2, 8
c	.008	.015	.20	.38	8
D		.896		22.76	4
E	.220	.310	5.59	7.87	4
E ₁	.290	.320	7.37	8.13	7
E ₂	.100		2.54		
E ₃	.050		1.27		
e	.100	BSC	2.54	BSC	5, 9
L	.125	.200	3.18	5.08	
L ₁	.150		3.81		
Q	.015	.060	.38	1.52	3
Q ₁	.020		.51		
S		.088		2.20	6
S ₁	.005		.13		6
S ₂	.005		.13		8
alpha	0°	15°	0°	15°	

28. OUTLINE DRAWINGS

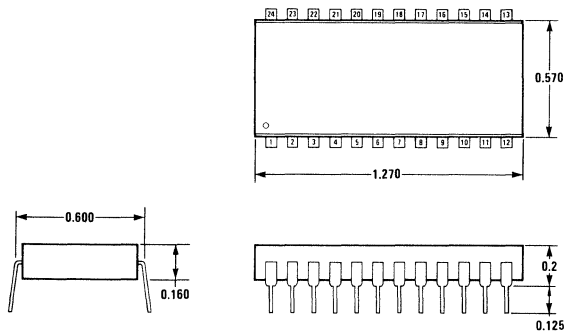
IN DRAWING NUMBER SEQUENCE

DL100



SYMBOL	INCHES		MILLIMETERS		NOTES
	MIN	MAX	MIN	MAX	
A		.225		5.72	
b	.014	.023	.36	.58	8
b ₁	.030	.070	.76	1.78	2, 8
c	.008	.015	.20	.38	8
D		1.290		32.77	4
E	.500	.610	12.70	15.49	4
E ₁	.590	.620	14.99	15.75	7
E ₂	.270		6.86		
E ₃	.050		1.27		
e	.100	BSC	2.54	BSC	5, 9
L	.120	.200	3.05	5.08	
L ₁	.150		3.81		
Q	.015	.075	.38	1.91	3
Q ₁	.020		.51		
S		.098		2.49	6
S ₁	.005		.13		6
S ₂	.005		.13		8
α	0°	15°	0°	15°	

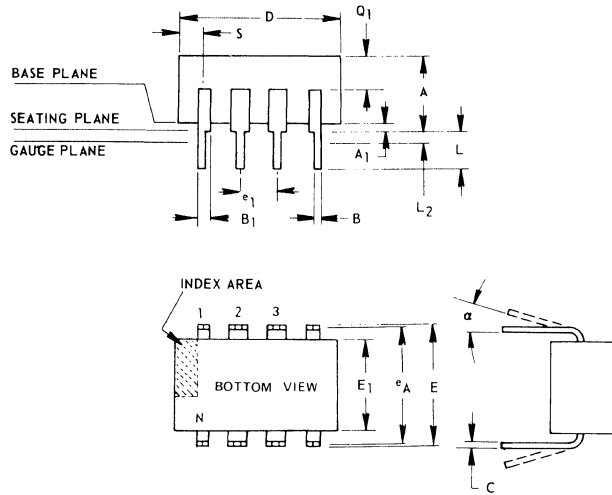
DL101



28. OUTLINE DRAWINGS

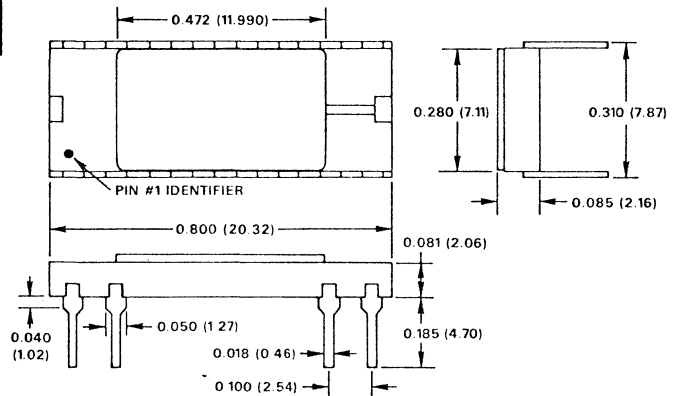
IN DRAWING NUMBER
SEQUENCE

DL102

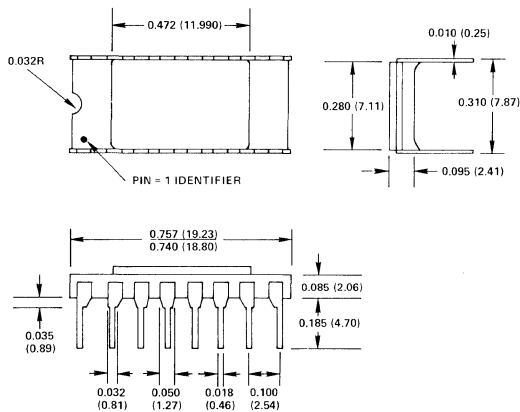


SYMBOL	INCHES	
	MIN.	MAX.
A	0.155	0.200
A ₁	0.020	0.050
B	0.014	0.020
B ₁	0.035	0.065
C	0.008	0.012
D	0.370	0.400
E	0.300	0.325
E ₁	0.240	0.260
e ₁	0.100 TP	
e _A	0.300 TP	
L	0.125	0.150
L ₂	0.000	0.030
a	0° 15°	
N	8	
N ₁	0	
Q ₁	0.040	0.075
S	0.015	0.060

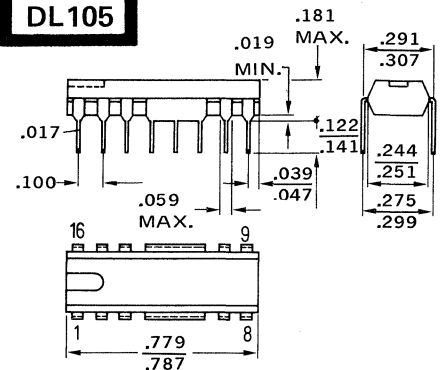
DL103



DL104



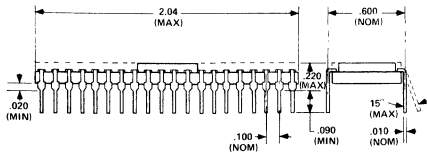
DL105



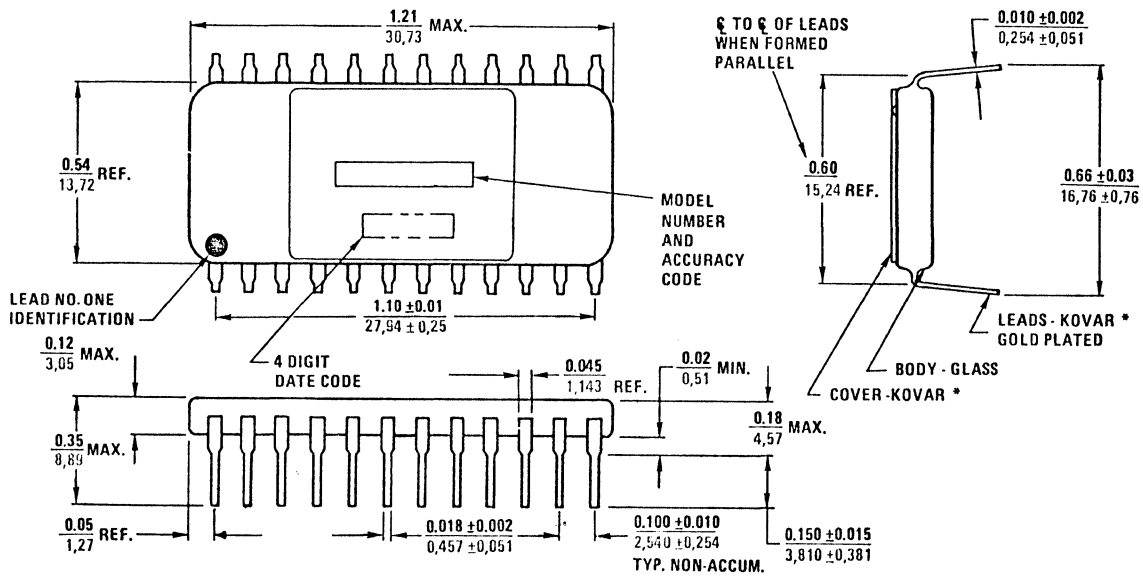
28. OUTLINE DRAWINGS

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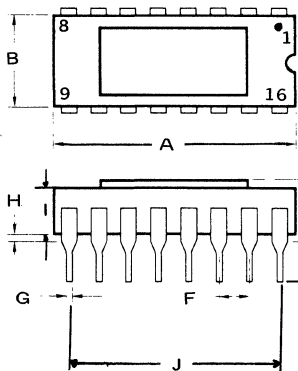
DL107



DL108



DL109

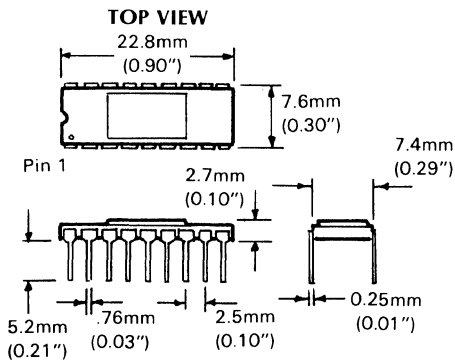


	A	B	C	D	E	F	G	H	I	J
DL109	.810	.330	.180	.120	.280	.097	.015	.060	.120	.690
	MAX	MAX	MAX	.200	.320	.103	.021	MAX		.710
DL109a	.800	.320	.180	.130	.300	.092	.020	.018		
	MAX	MAX	MAX			.108		MIN		

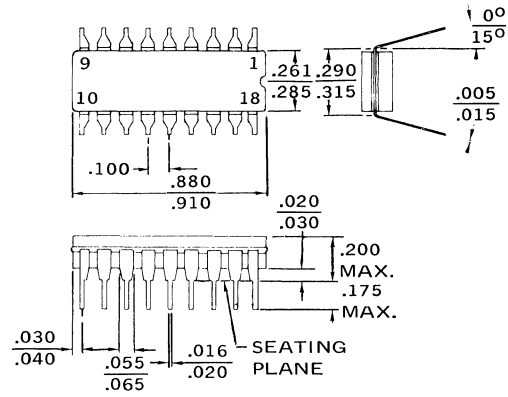
28. OUTLINE DRAWINGS

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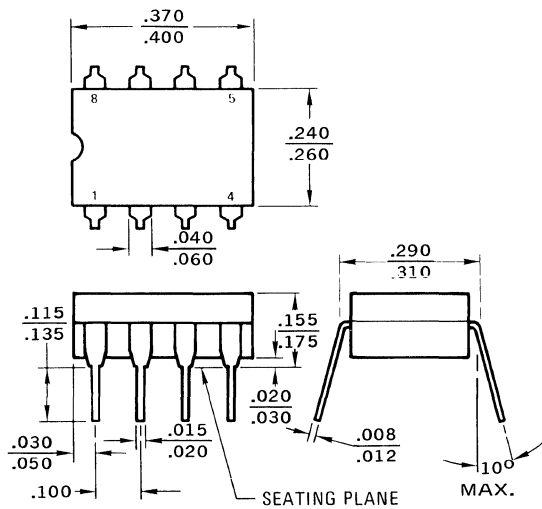
DL110



DL111



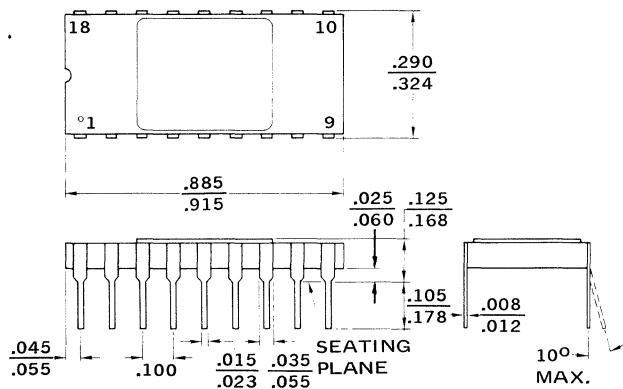
DL112



NOTES:

- LEADS WITHIN 0.13 mm (0.005) RAD OF TRUE POSITION AT SEATING PLANE AT MAXIMUM MATERIAL CONDITION.
- DIMENSION "L" TO CENTER OF LEADS WHEN FORMED PARALLEL.

DL113



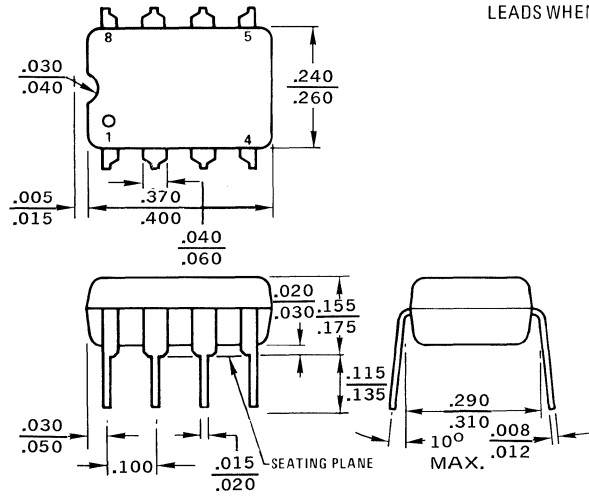
NOTES:

- LEADS WITHIN 0.13 mm (0.005) RADIUS OF TRUE POSITION AT SEATING PLANE AT MAXIMUM MATERIAL CONDITION.
- NOMINAL DIM FROM CENTER OF LEADS PARALLEL TO DIM "L" IS 7.62 mm (0.300").

28. OUTLINE DRAWINGS

IN DRAWING NUMBER
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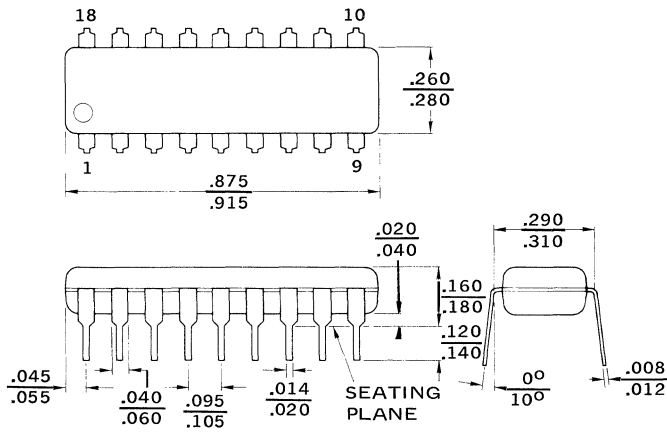
DL114



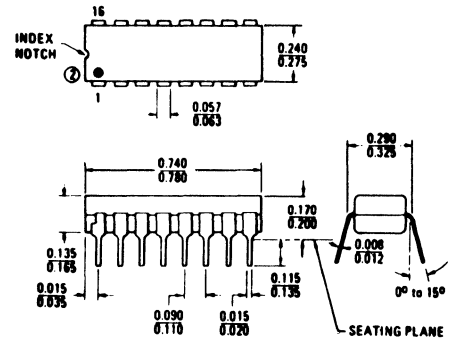
NOTES:

- LEADS WITHIN 0.13 mm (0.005) RADIUS OF TRUE POSITION AT SEATING PLANE AT MAXIMUM MATERIAL CONDITION.
- DIM "L" TO CENTER OF LEADS WHEN FORMED PARALLEL.

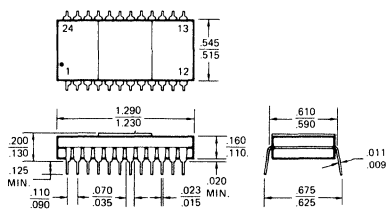
DL115



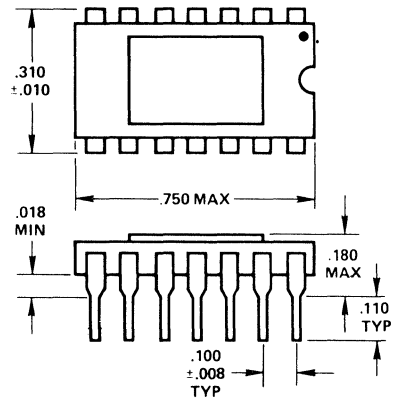
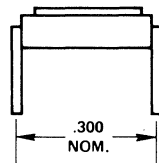
DL116



DL117



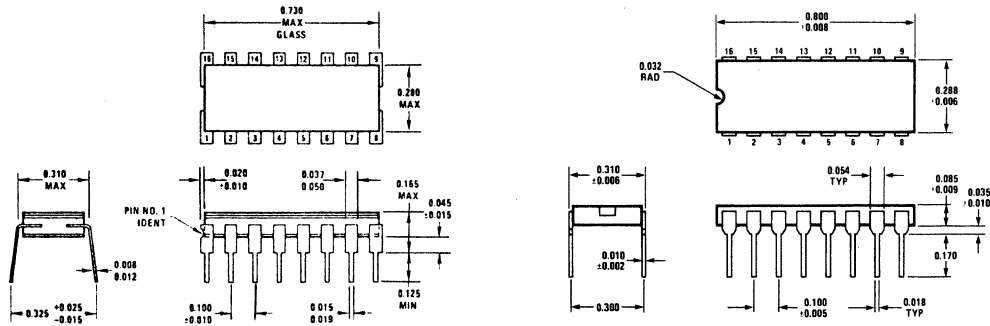
DL118



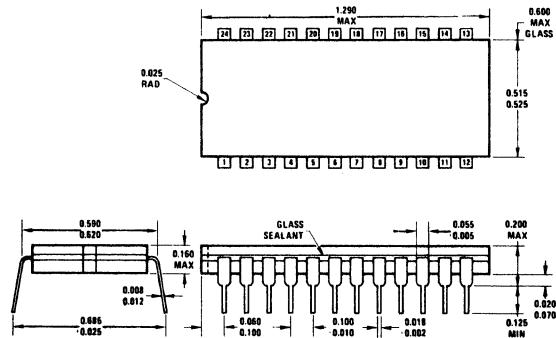
28. OUTLINE DRAWINGS

IN DRAWING NUMBER
SEQUENCE

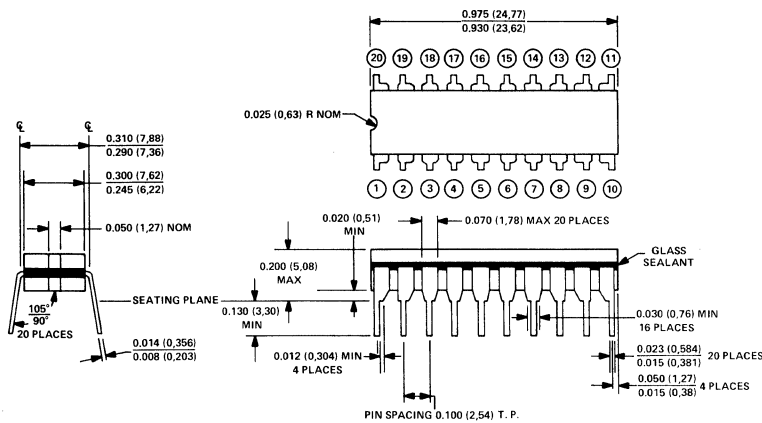
DL125



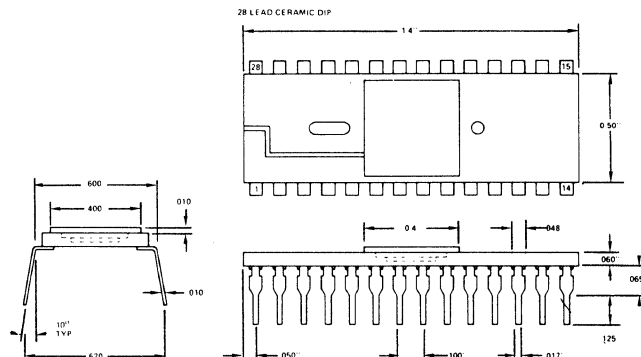
DL126



DL127



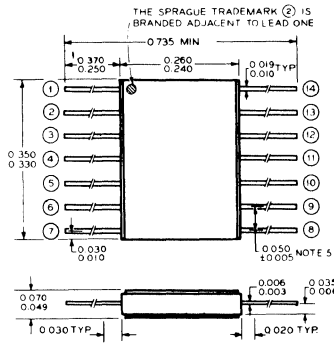
DL129



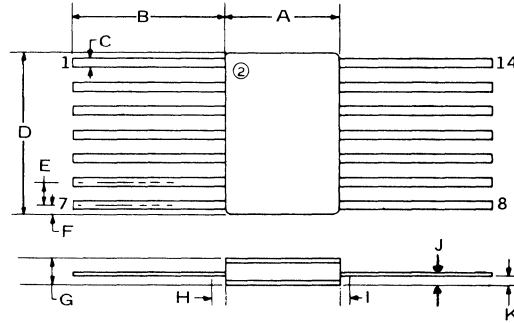
28. OUTLINE DRAWINGS

IN DRAWING NUMBER
SEQUENCE

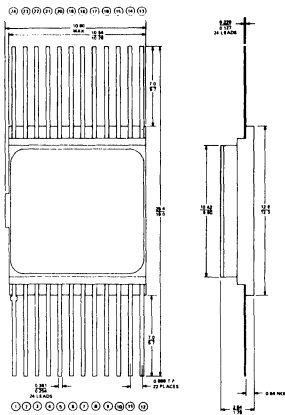
FP1



FP2

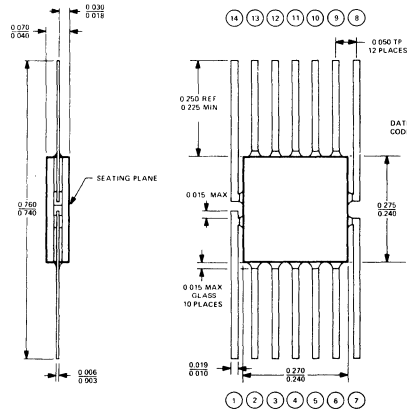


FP3



	A	B	C	D	E	F	G	H	I	J	K	REMARKS
FP2	.244 .260	.230 MIN	.015 .019	.330 .350	.050	.012 .038	.065 MAX	.030	.020	.004 .006	.020	Ceramic Bottom
FP2a	.244 .260	.230 MIN	.015 .019	.330 .350	.050	.012 .038	.065 MAX	.030	.020	.004 .006	.020	Metal Bottom
FP2b	.375	.500 MIN TYP	.016	.375	.050		.120 MAX			.010		
FP2c	.240 .275	.070 MIN	.010 .019	.360 .410	.045 .055		.030 .070			.003 .006		
FP2d	.235 .260	.285 .310	.015 .019	.330 .360	.045 .055	.010 .035	.055 .085		.760	.003 .006	.020 .040	
FP2e	.265 MAX		.016 .019	.390	.050		.075 MAX			.004 .006		

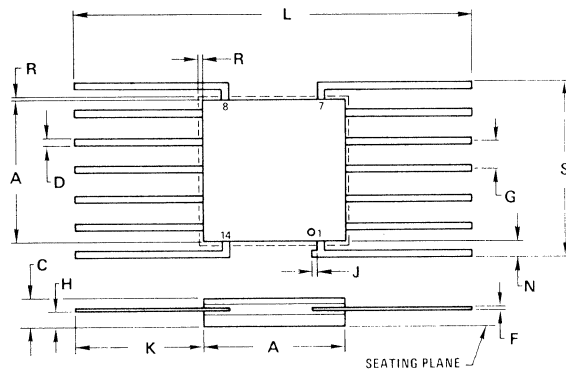
FP4



28. OUTLINE DRAWINGS

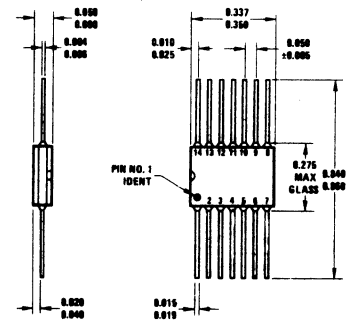
IN DRAWING NUMBER SEQUENCE

FP5

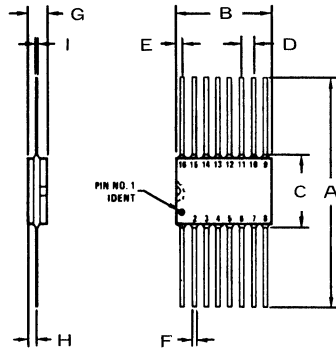


	A	B	C	D	F	G	H	J	K	L	N	R	S	REMARKS
FP5	.240 .260		.030 .070	.013 .019	.003 .006	.050 BSC	.012 .035	.015 MAX	.250 .370	.740 MIN	.010 MIN	.015 MAX	.300 .330	Omit Dot for Pin 1
FP5a	.240 .270	.240 .280	.030 .070	.010 .019	.0035 .0065	.050 TYP	.015 .035	.010 .015	.250 .370	.750 MIN	.050 TYP	.015 TYP		Add Dot for Pin 1
FP5b	.240 .260		.050 .065	.016 .020	.004 .006	.045 .055	.022 .032	.010 .014	.370 MAX		.028 .038			
FP5c	.283 MAX		.059 .070	.013 .019	.0003 .006	.500	.031		.118 MIN				.300	Omit Dot for Pin 1
FP5d	.240 .270	.135 .165	.030 .070	.010 .019	.004 .006	.050	.010 .035	.010 .015	.165 .250	.430 MIN				Omit Dot for Pin 1

FP6

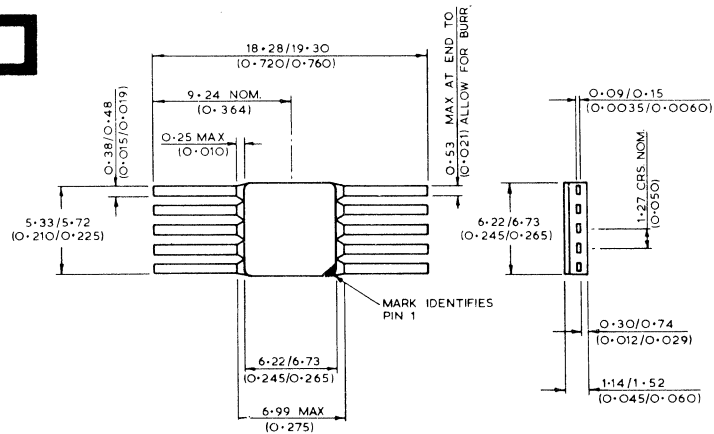


FP7



	A	B	C	D	E	F	G	H	I	REMARKS
FP7	.940 .960	.375 .400	.300 MAX	.045 .055	.010 .025	.015 .019	.050 .060	.020 .040	.004 .006	As Shown
FP7a	.880 .900	.390 MAX	.275 MAX	.045 .055	.007 .018	.015 .019	.080 MAX	.020 .040	.004 .006	No Notch

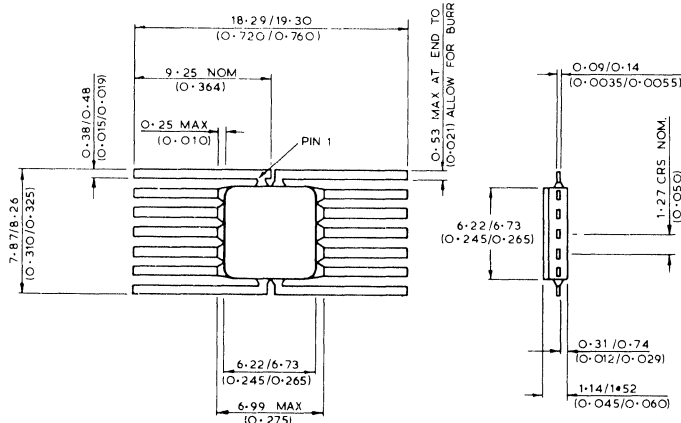
FP8



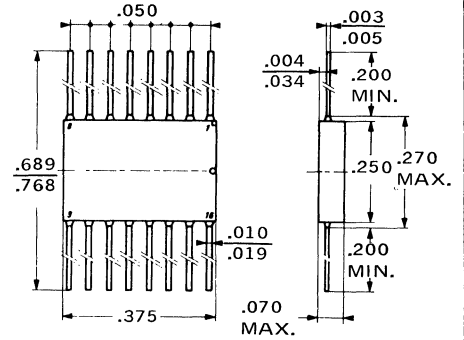
28. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

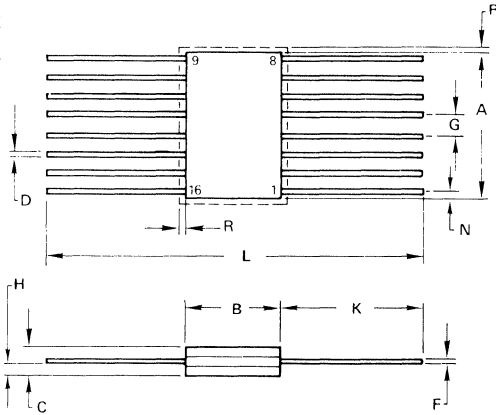
FP9



FP10



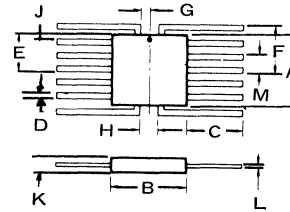
FP11



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

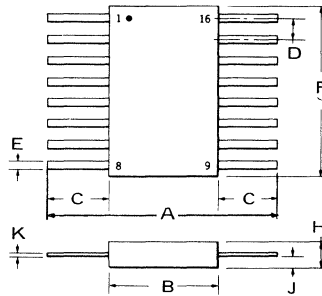
- NOTES:
 1. LEAD NO. 1 IDENTIFIED BY TAB ON LEAD OR DOT ON COVER.
 2. LEADS WITHIN 0.13 mm (0.005) TOTAL OF TRUE POSITION AT MAXIMUM MATERIAL CONDITION.

FP12



	A	B	C	D	E	F	G	H	J	K	L	M
FP12	.240	.240	.250	.015	.110	.145	.016	.045	.095	.067	.0036	.006
	.260	.260	.370	.019	.135	.155	TYP	.065	.105	.080	.0060	.045
FP12a	.240	.240	.250	.010						.030	.003	.045
	.275	.260	MIN	.019						.070	.006	.055

FP13

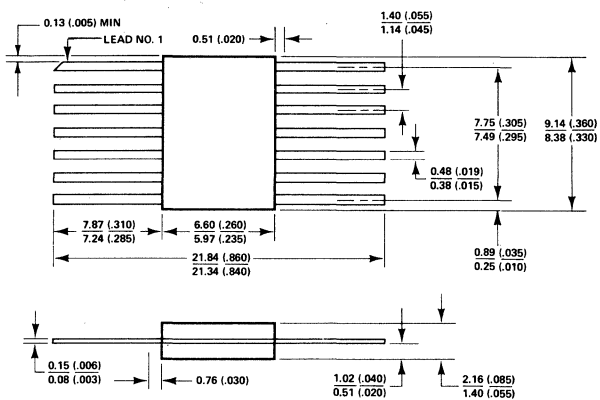


	A	B	C	D	E	F	G	H	J	K	REMARKS
FP13	.247	.260	typ	.050	.015	.371		.060	.024	.004	Pin 1 Dot
	.283	.350			.019	.409		.075		.006	
FP13a	.950	.265	.330	.050	.015	.440	.070		.025	.003	Pin One Index as Shown
		.325	MIN		.019	MAX	MAX			.007	
FP13b	.247	.250		.050	.015	.371		.055	.024	.004	Pin 1 Dot
	.285	.350		TYP	.019	.400		.080	TYP	.006	

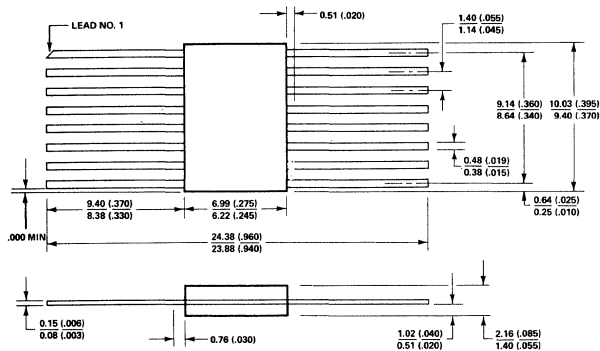
28. OUTLINE DRAWINGS

IN DRAWING NUMBER
SEQUENCE

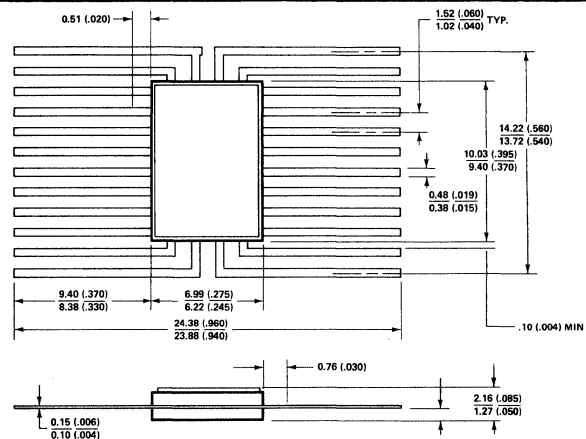
FP14



FP15



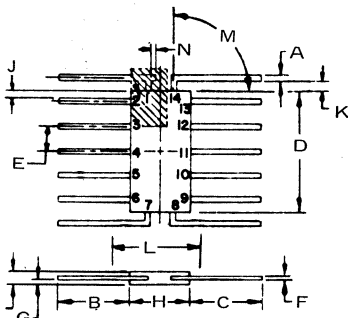
FP16



28. OUTLINE DRAWINGS

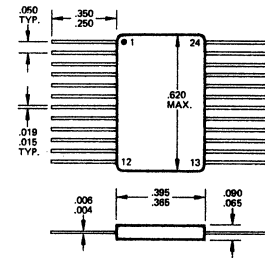
IN DRAWING NUMBER
SEQUENCE

FP21

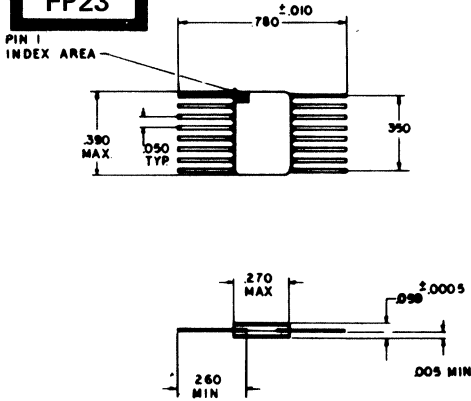


	A	B	C	D	E	F	G	H	I	J	K	L	M	N	REMARKS	
FP21	.015 .019	.250 .370	.250 .370	.240 .260	.050 TYP	.004 .006	.025 TYP	.240 .260	.055 .080							No Index Dot
FP21a	.014 .019	.250 MIN		.230 .260	.045 .050	.003 .006	.010 .040	.280 MAX	.030 .070							Index Dot
FP21b	.010 .019	.165 .390	.165 .390	.280 MAX	.050 BSC	.003 .006	.010 .040	.120 .200	.030 .070	.005 MIN	.004 MIN	.220 MAX	30° 90°	.008 .015	Index Area, Notch or Pin 1 ID	

FP22



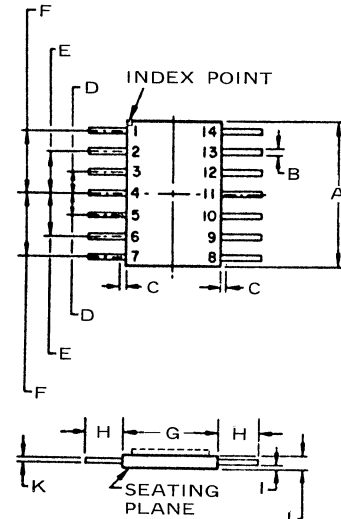
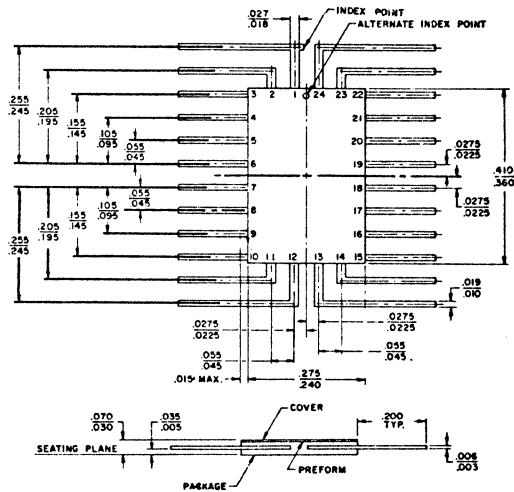
FP23



FP24

	A	B	C	D	E	F	G	H	I	J	K	REMARKS
FP24	.360 .410	.010 .019	.015 MAX	.045 .055	.095 .105	.145 .155	.240 .275	.070 MIN	.005 .035	.030 .070	.003 .006	
FP24a	.360 .410	.015 .019	.015 MAX	.045 .055	.095 .105	.145 .155	.240 .275	.200	.030 .070	.003 .006		Dotted Cover as Shown

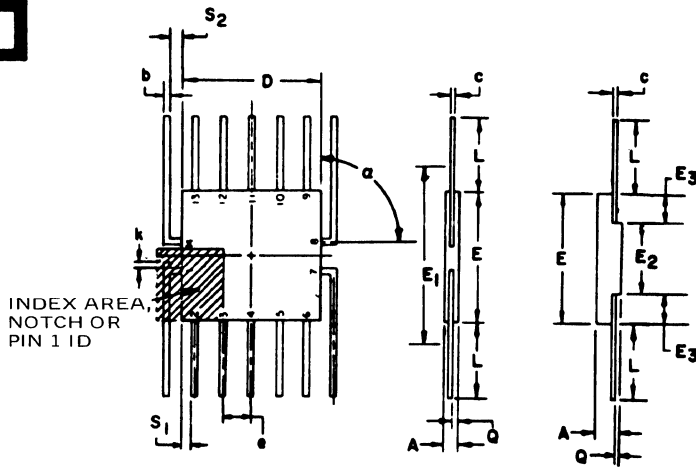
FP25



28. OUTLINE DRAWINGS

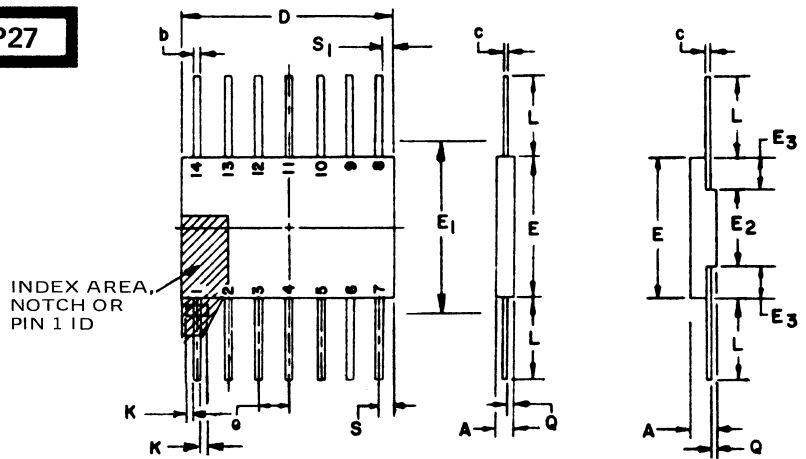
IN DRAWING NUMBER
SEQUENCE

FP26



SYMBOL	INCHES		MILLIMETERS		NOTES
	MIN	MAX	MIN	MAX	
A	.030	.085	.76	2.16	
b	.010	.019	.25	.48	5
c	.003	.006	.08	.15	5
D		.280		7.11	3
E	.240	.260	6.10	6.60	
E ₁		.280		7.11	3
E ₂	.125		3.18		
E ₃	.030		.76		
e	.050 BSC		1.27 BSC		4, 6
k	.008	.015	.20	.38	10
L	.250	.370	6.35	9.40	
Q	.010	.040	.25	1.02	2
S ₁	.005		.13		7, 8
S ₂	.004		.10		11
a	30°	90°	30°	90°	12

FP27

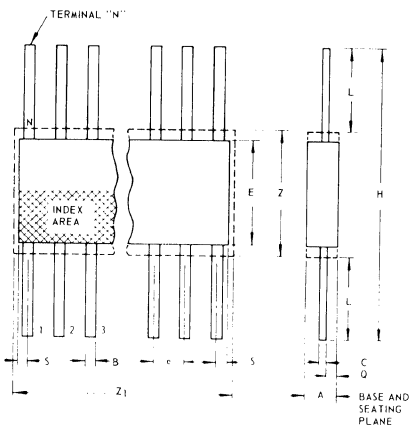


SYMBOL	INCHES		MILLIMETERS		NOTES
	MIN	MAX	MIN	MAX	
A	.045	.085	1.14	2.16	
b	.010	.019	.25	.48	5
c	.003	.006	.08	.15	5
D		.390		9.91	3
E	.235	.260	5.97	6.60	
E ₁		.280		7.11	3
E ₂	.125		3.18		
E ₃	.030		.76		
e	.050 BSC		1.27 BSC		4, 6
K	.008	.015	.20	.38	10
L	.250	.370	6.35	9.40	
Q	.010	.040	.25	1.02	2
S		.045		1.14	7
S ₁	.005		.13		7, 8

28. OUTLINE DRAWINGS

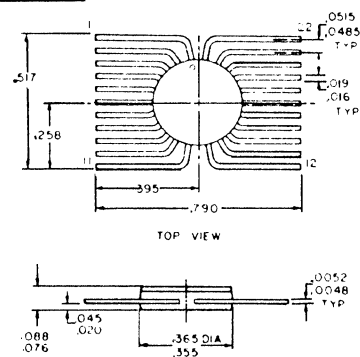
IN DRAWING NUMBER
SEQUENCE

FP33

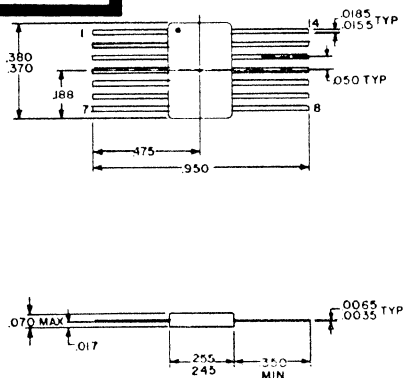


SYMBOL	INCHES	
	MIN.	MAX.
A	0.075	0.120
B	0.018	0.022
C	0.004	0.007
e	0.050 TP	
E	0.600	0.700
H	1.150	1.350
L	0.225	0.325
N	24	
Q	0.035	0.070
S	0.060	0.110
Z	0.700	
Z1	0.750	

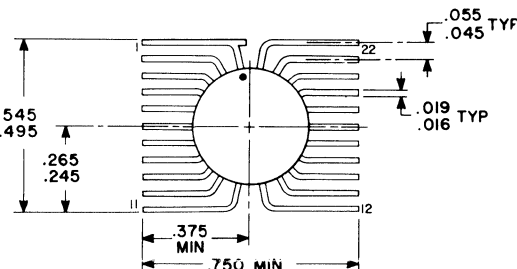
FP34



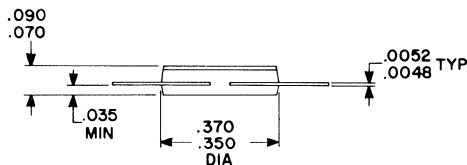
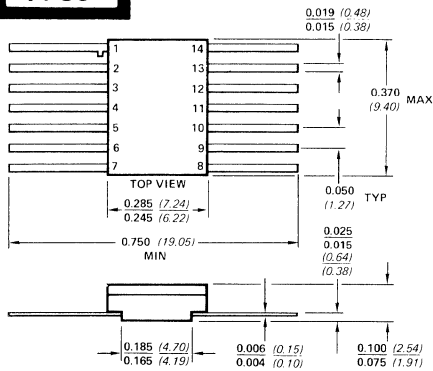
FP35



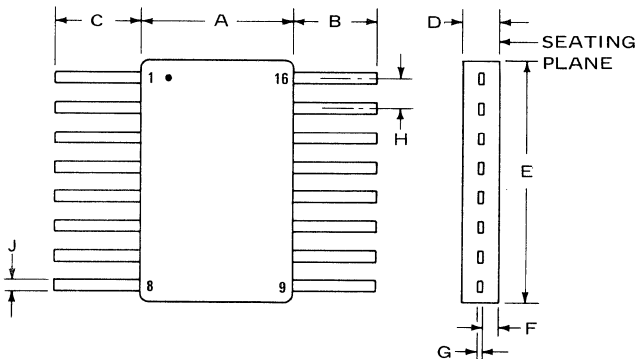
FP36



FP38



FP39

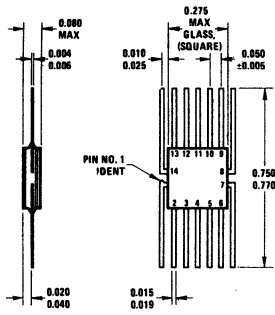


	A	B	C	D	E	F	G	H	J
FP39	.247	.250	.250	.049	.371	.024	.004	.050	.015
	.283	MIN	MIN	.090	.409	TYP	.006	TYP	.019
FP39a	.247	.250	.250	.060	.371	.024	.004	.050	.015
	.283	MIN	MIN	.075	.409	TYP	.006	TYP	.019

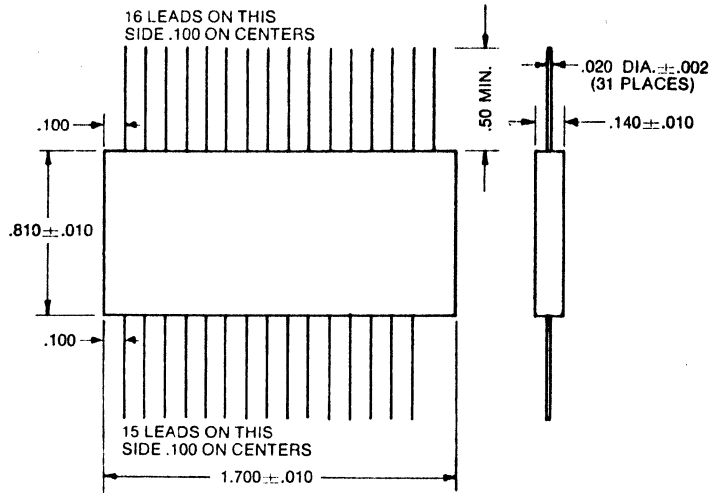
28. OUTLINE DRAWINGS

IN DRAWING NUMBER
SEQUENCE

FP40



FP41



28. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

MD1

0.3" GRID

TAPPED 4-40, .09" DEEP, SCREW CLEARANCE TO .19" DEEP, 2 HOLES

	A	B
MD1	1.80	2.40
MD1a	1.20	1.80

MD2

(7.62) 0.3" GRID

TAPPED 4-40, .09" DEEP, SCREW CLEARANCE TO .19" DEEP, 2 HOLES

(1.016) .040"

(81.0) 2.40"

MD3

TOP

PIN 1 COLOR CODE

BOTTOM

14 13 12 11 10 9 8

SIDE

	A	B	C	D	E	F	G	REMARKS
MD3	.800	.500	.200	.180	.300	.100	.020	Dot Over Pin 1
MD3a	.810	.475	.215	.250	.300	.100	.020	Pin 1 Color Code
MD3b	.810	.475	.315	.250	.300	.100	.020	Pin 1 Color Code

MD4

.880

.520

PIN 1

PIN 14

.200

.018 DIA.

.100

BOTTOM VIEW

1 7

14 8

.300

MD5

2.00

2.00

A

1.80

100

28

24

21

19

17

15

8

10

12

BOTTOM VIEW

	A	B	C	PINS USED
MD5	.400	.250	.020	K, 1, 3, 8, 10, 12, 15, 17, 19, 21, 24, 28
MD5a	.400	.250	.020	K, 1, 7, 8, 14, 15, 21, 22, 28
MD5b	.400	.250	.020	K, 1-3, 5, 7-18, 21-28
MD5c	.400	.250	.020	K, 1-12, 15-18, 21-24, 27
MD5d	.400	.250	.020	1-14, 24, 27, 28, 29
MD5e	.375	.250	.020	K, 1-3, 5, 7-14, 21-28
MD5f	.375	.250	.020	K, 1-3, 5, 7-16, 21-28
MD5g	.375	.250	.020	K, 1-3, 5, 7-18, 21-28
MD5h	.400	.200	.018	1-7, 9-13, 15-19, 21, 27
MD5i	.400	.250	.018	K, 1-14, 15-28
		.300	.020	

MD6

50.80mm (2.00")

50.80mm (2.00")

6.35mm (0.25")

0.51mm Dia. (0.20")

10.16mm (0.40")

MD7

3.00" max. (76.20)

2.10" max. (53.34)

0.40" max. (10.16)

20" min. (5.08)

.040" Dia. Typ. (1.02)

1.80" (45.72)

20 TYP. (5.1)

.15" (3.8)

1.00" (25.4)

.30" (7.6)

BOTTOM VIEW

MD8

45.72mm (1.80")

2.54mm typ. (0.10")

5.08mm (0.20")

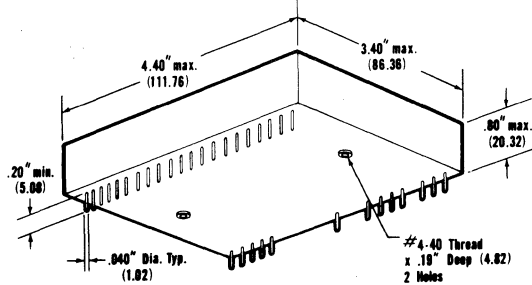
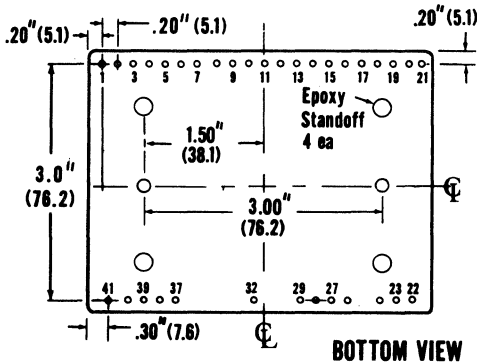
TOP VIEW

- K KEY
- 1 -5V
- 2 +5V
- 3 +5V
- 5 PWR COM
- 7 BIT (MSB)
- 9 BIT 2
- 10 BIT 3
- 11 BIT 4
- 12 BIT 5
- 13 BIT 6
- 15 BIT 7
- 14 BIT 8
- ZERO ADJ 29
- SUM JCT 27
- OUTPUT 26
- REF OUT 25
- R1 24
- R2 23
- GAIN ADJ 22
- BIPOLAR OFFSET 21
- R3 20
- BIT 12 16
- BIT 11 17
- BIT 10 15
- BIT 9 15

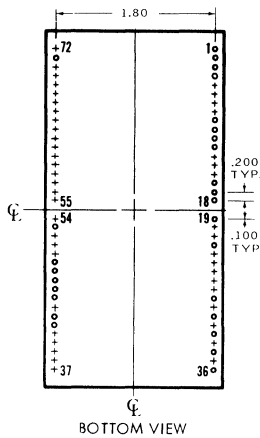
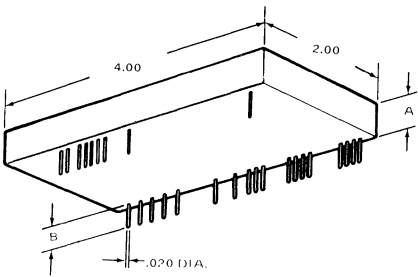
28. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

MD8

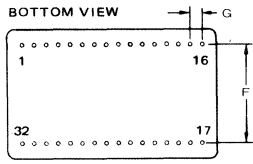
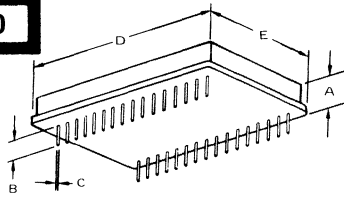


MD9



		PINS USED	
A	B		
MD9	.400	.250	1-6, 19, 20, 22, 23, 25, 27, 29, 30, 32-37, 43, 48, 50, 52, 54, 56, 58, 61, 63, 65, 67, 70-72
MD9a	.400	.200	1-6, 19, 20, 22, 23, 25, 27, 29, 30, 32-37, 43, 48, 50, 52, 54, 56, 58, 61, 63, 65, 67, 70-72
MD9b	.750	.250	1, 3, 5, 6, 19, 20, 22, 23, 25, 27, 29, 30, 32-34, 36, 43, 46, 48, 50, 52, 54, 56, 58, 61, 63, 65, 67, 70-72
MD9c	.400	.200	1-6, 9, 10, 17, 18, 20-30, 32, 34-36, 39-42, 44-48, 50, 52, 54, 56, 58, 61, 63, 65, 67, 69, 71, 72
MD9d	.400	.250	1-4, 9-12, 16-19, 22, 28, 30, 32, 34, 36, 37, 42, 43, 45, 49, 53, 71
MD9e	.400	.250	1-4, 9-12, 16-19, 23-26, 28, 30, 32, 34, 44, 46-49, 52, 53, 68-71
MD9f	.400	.200	2-4, 6, 10, 17-30, 32, 34-36, 39-42, 44-48, 50, 52, 54, 56, 58, 60, 61, 63, 65, 67, 69-72
MD9g	.400	.200	1, 3, 5, 9, 17, 26, 28, 30, 32, 34, 36, 37, 39, 41, 43, 45, 46, 48, 49, 62-72
MD9h	.390	.250	1-6, 19, 20, 22, 23, 25, 27, 29-36, 39, 43, 48, 50, 52, 54, 56, 58, 61, 63, 65, 67, 70-72
MD9i	.410	MIN	
MD9j	.390	.250	1-6, 19, 20, 22, 23, 25, 27, 29-36, 39, 43, 52, 54, 56, 58, 61, 63, 65, 67, 70-72
MD9k	.400	.200	1, 3, 5, 9, 17, 26, 28, 30, 32, 34, 36, 37, 39, 41, 43, 45, 46, 48, 49, 60-72
MD9m	.400	.200	1, 3, 5, 9, 17, 26, 28, 30, 32, 34, 36, 37, 39, 41, 43, 45, 46, 48, 49, 58-72
MD9n	.400	.200	1, 3, 5, 9, 17, 26, 28, 30, 32, 34, 36, 37, 39, 41, 43, 45, 46, 48, 49, 61-72
MD9p	.400	.200	1, 3, 5, 9, 17, 26, 28, 30, 32, 34, 36, 37, 39, 41, 43, 45, 46, 48, 49, 57-72
MD9q	.400	.200	1-4, 9-12, 16-19, 23-26, 28, 30, 32, 34, 44, 46-49, 52, 53, 68-71
MD9r	.400	.200	1, 12, 14, 27, 28, 34, 35, 51, 60-72
MD9s	.400	.300	1-6, 19, 20, 22, 23, 25, 27, 29, 30, 32-34, 36, 45, 46, 48, 50, 52, 54, 56, 58, 61, 63, 65, 67, 70-72
MD9t	.400	.220	1-3, 19-23, 25, 27, 29, 30, 32-36, 38, 43, 48, 50, 52-56, 58, 61, 63, 65, 67, 70-72
MD9u	.400	.220	1, 3-5, 9, 11, 13, 15, 17, 18, 20, 22, 24, 26, 28, 30, 32-37, 50, 51, 53, 55, 56, 58, 62, 68, 70, 72
MD9v	.410	.200	1, 3, 5, 6, 19, 20, 22, 23, 25, 27, 29, 30, 32-37, 43, 48, 50, 52, 54, 56, 58, 61, 63, 65, 67, 70-72
MD9w	.400	.200	1, 12, 14, 27, 28, 34, 35, 51, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72
MD9x	.390	.250	1-6, 19, 20, 22, 23, 25, 27, 29, 30, 32-37, 43, 48, 50, 52, 54, 56, 58, 61, 63, 65, 67, 70-72
	.410	MIN	

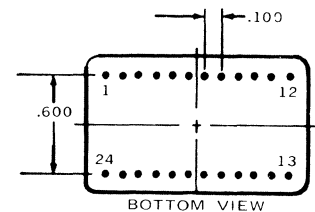
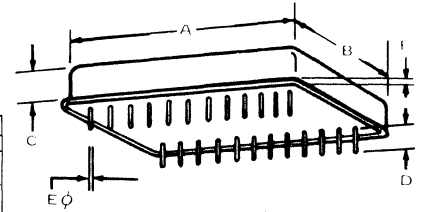
MD10



	A	B	C	D	E	F	G
MD10	.230	.170	.020	1.75	1.15	.900	.100
MD10a	.220	.240	.018	1.75	1.15	.900	.100
MD10b	.200	.250	.018	1.74	1.14	.900	.100

MD11

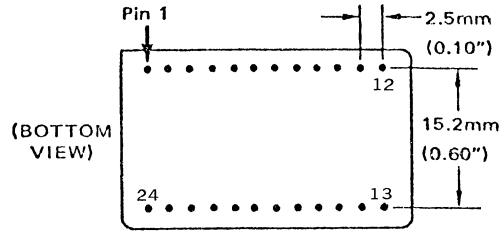
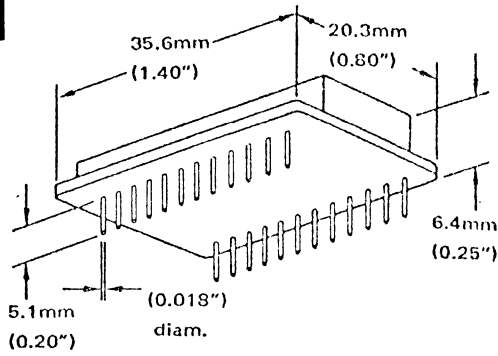
	A	B	C	D	E	F	REMARKS
MD11	1.40	.800	.220	.200	.020		
MD11a	1.275	.775	.200	.200	.020		Dot on Top References Pin 1
MD11b	1.400	.800	.200	.170	.016	.015	Pin 1 ID Corner
	MAX	MAX	MAX	MAX	.019	MAX	
MD11c	1.40	.800	.200	.220	.018		
MD11d	1.37	.795	.184	.225	.020		
MD11e	1.370	.795	.185	.500	.018		
				MIN	TYP		
MD11f	1.400	.805	.200	.170	.016	.015	Pin 1 ID Corner
	MAX	MAX	MAX	MIN	.019		
MD11g	1.375	.800	.200	.170	.018		Pin 1 ID Corner
	MAX	MAX	MAX	MIN			
MD11h	1.400	.805	.265	.170	.016	.015	Pin 1 ID Corner
	MAX	MAX	MAX	MIN	.019		



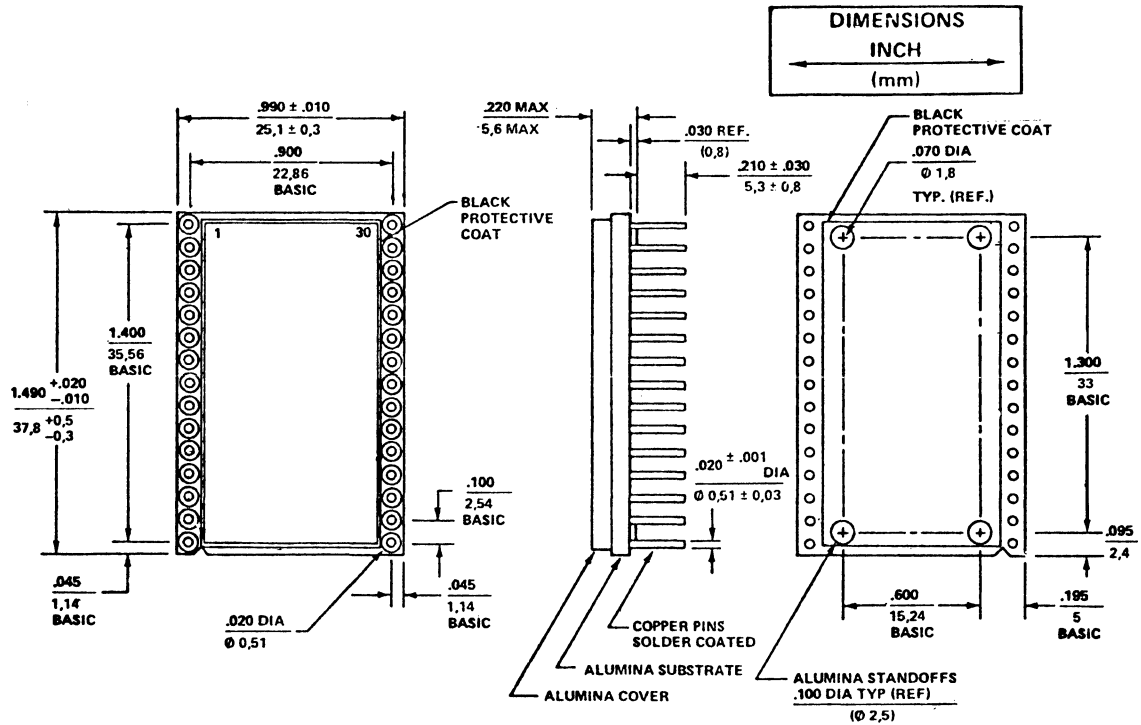
28. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

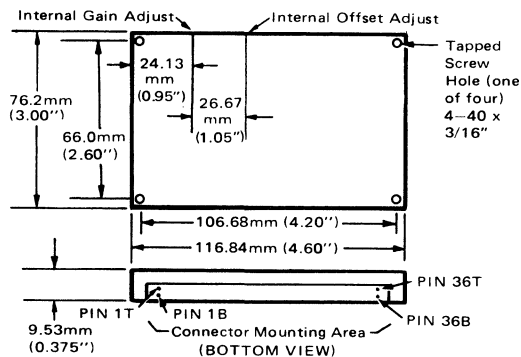
MD12



MD13



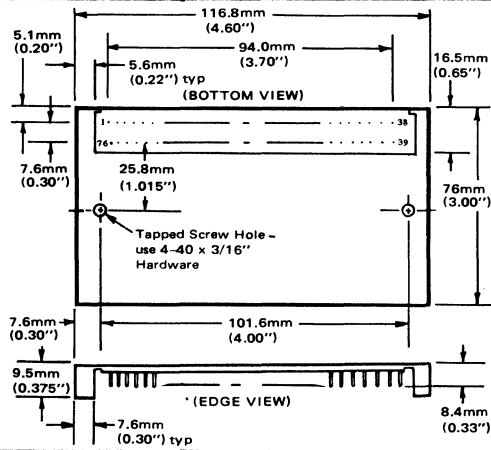
MD14



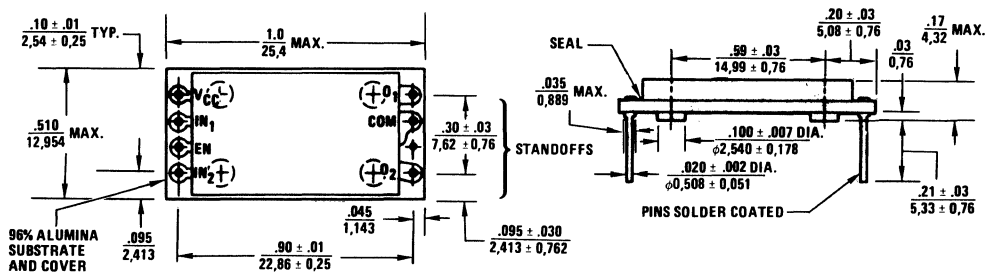
28. OUTLINE DRAWINGS

IN DRAWING NUMBER
SEQUENCE

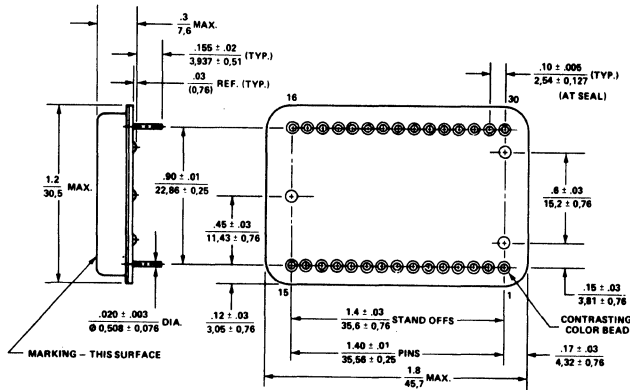
MD15



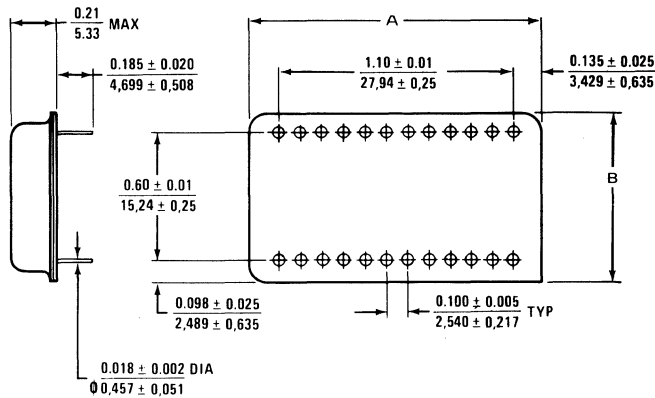
MD16



MD17



MD18

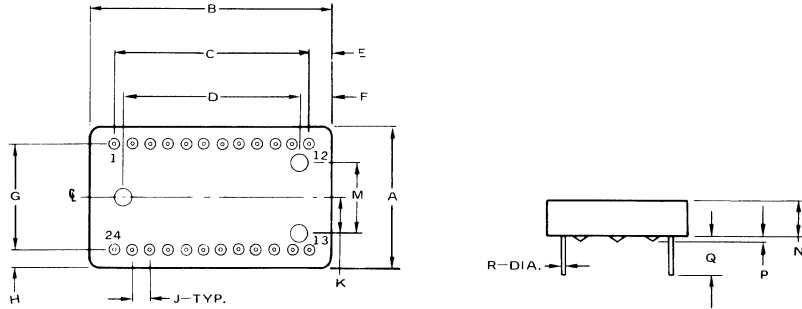


	A	B
MD18	1.38 MAX	.800 MAX
MD18a	1.39 MAX	.810 MAX

28. OUTLINE DRAWINGS

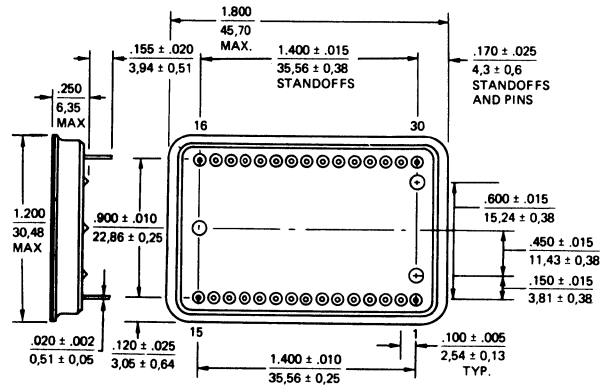
IN DRAWING NUMBER
SEQUENCE

MD19

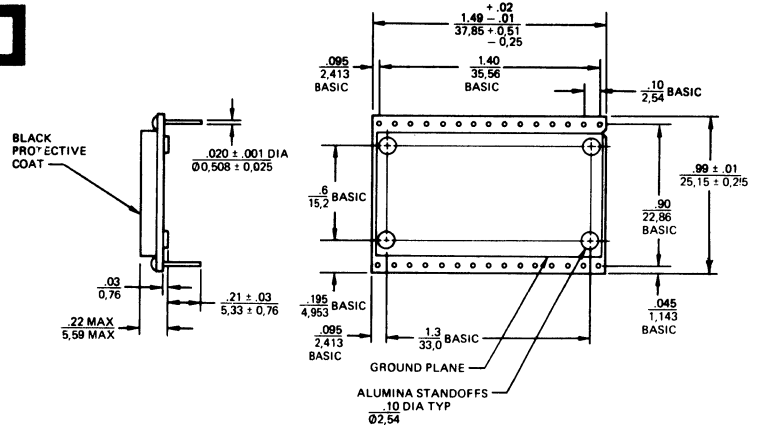


	A	B	C	D	E	F	G	H	J	K	M	N	P	Q
MD19	.800 MAX	1.39 MAX	1.09 1.11	.980 1.02	.110 .155	.160 .210	.590 .610	.073 .123	.095 .105	.180 .220	.390 .410	.170 .230	.020 .040	.165 .205
MD19a	.810 MAX	1.39 MAX	1.09 1.11	.980 1.02	.110 .155	.160 .210	.590 .610	.073 .123	.095 .105	.180 .220	.390 .410	.170 .230	.020 .040	.165 .205
MD19b	.800	1.30	1.10				.600	.100	.100			.150	.023	.230
MD19c	.900	1.370	1.10		.135		.600	.097	.100			.220		.500 TYP
MD19d	.820 MAX	1.330 MAX	1.100 MAX				.600		.100			.150 MAX	.035	.245 MAX

MD20



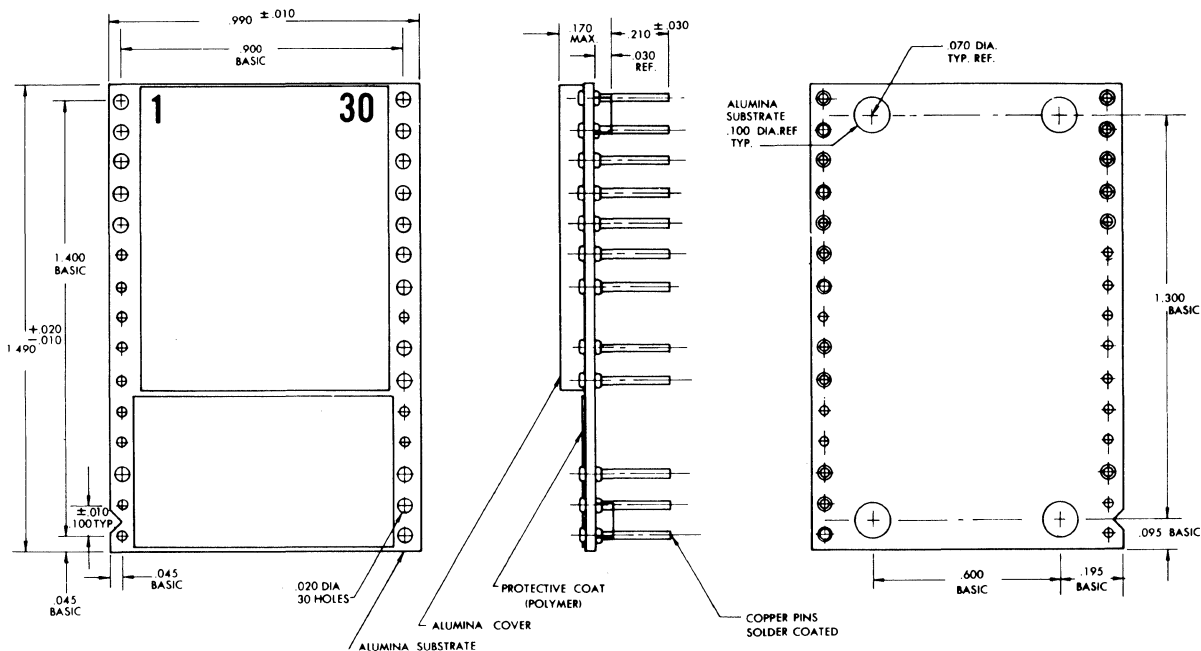
MD21



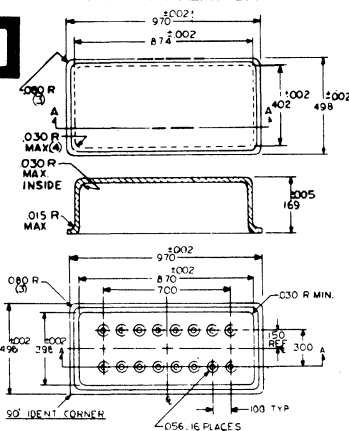
28. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

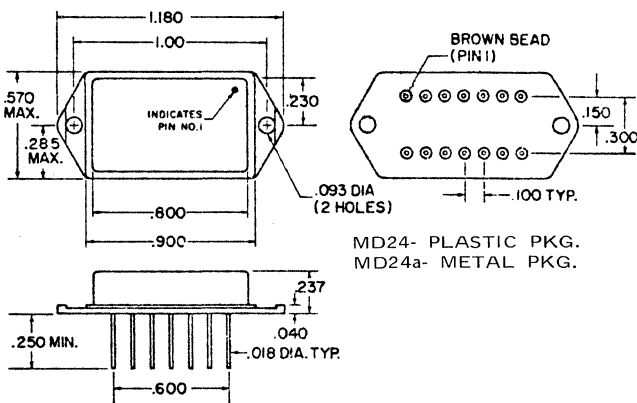
MD22



MD23

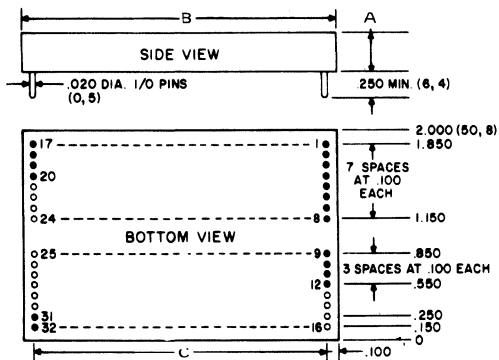


MD24



MD25

INCHES (MM)

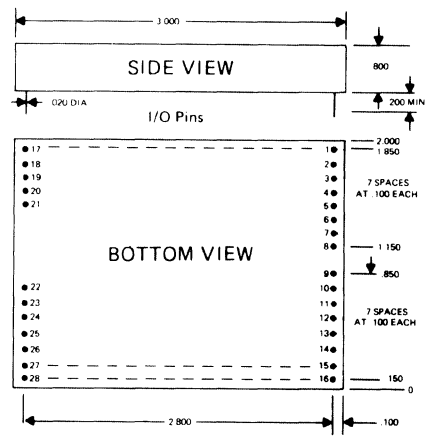


	A	B	C	PINS OMITTED
MD25	.375	3.00	2.80	15-16, 21-30
MD25a	.790	3.98	3.80	16, 25, 26
	.810	4.20		
MD25b	.375	2.00	1.80	14-16, 22-30
MD25c	.375	3.00	2.80	24-30
MD25d	1.400	4.00	3.80	25-30

28. OUTLINE DRAWINGS

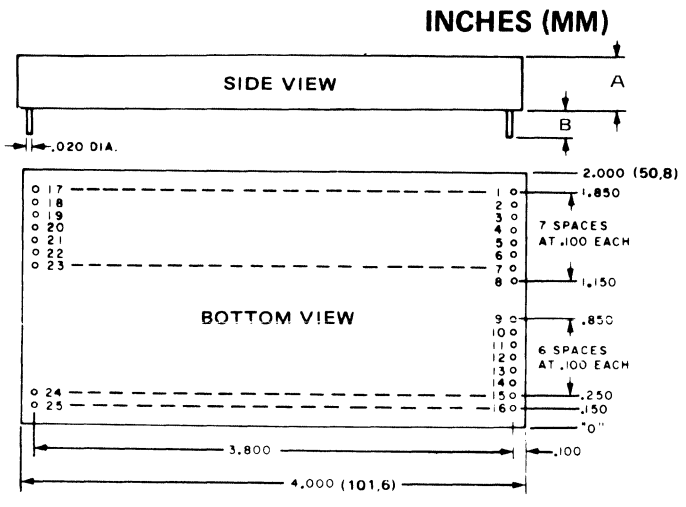
IN DRAWING NUMBER SEQUENCE

MD26



[Empty box]

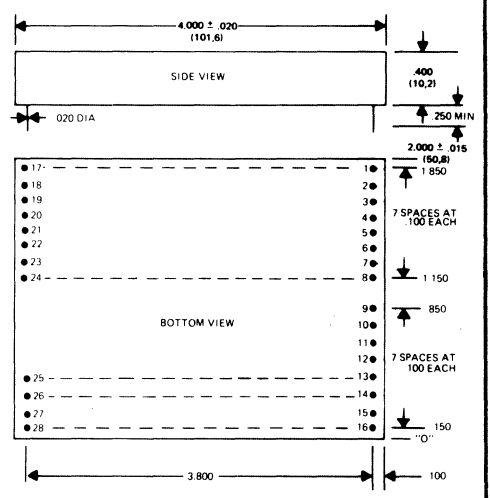
MD27



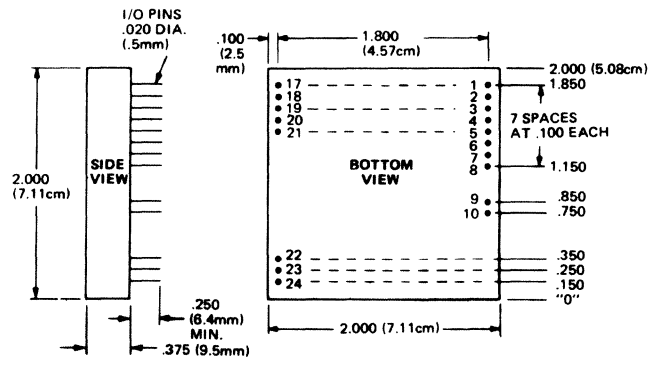
[Empty box]

	A	B	REMARKS
MD27	.390	.200	
	.410	MIN	
MD27a	.790	.200	
	.810	MIN	
MD27b	.390	.200	Pins 15-16 Omitted
	.410	MIN	
MD27c	.790	.200	Pins 15-16 Omitted
	.810	MIN	
MD27d	.400	.250	
		MIN	

MD28

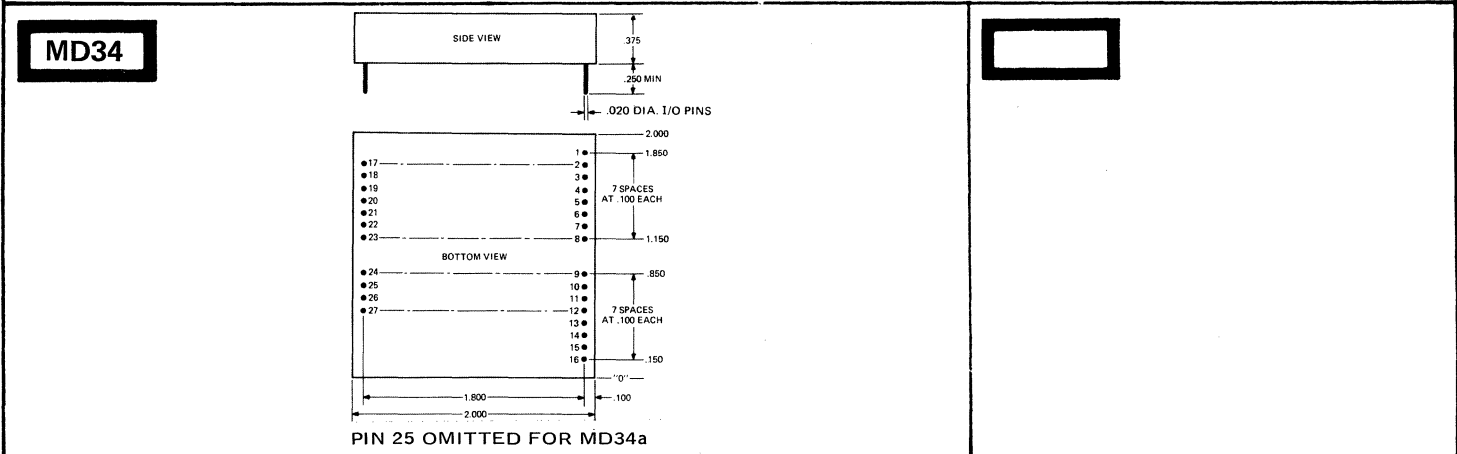
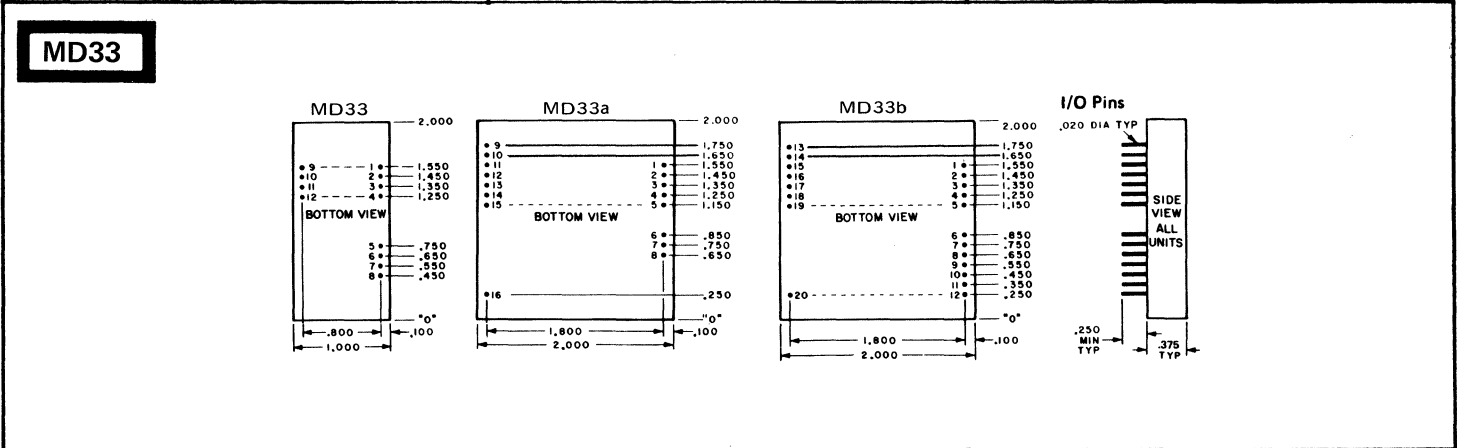
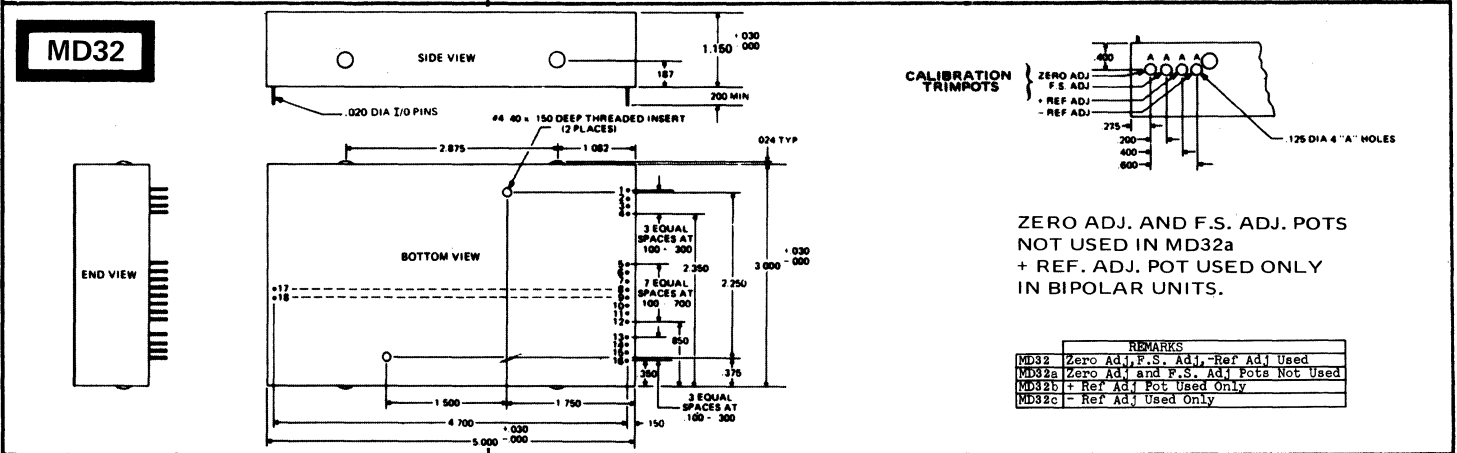
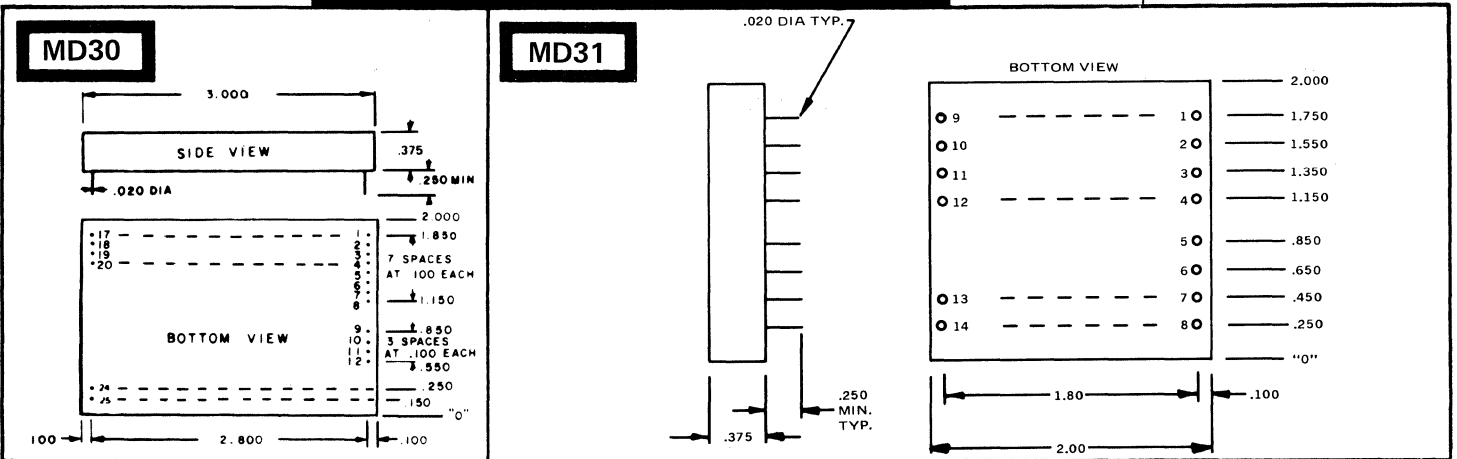


MD29



28. OUTLINE DRAWINGS

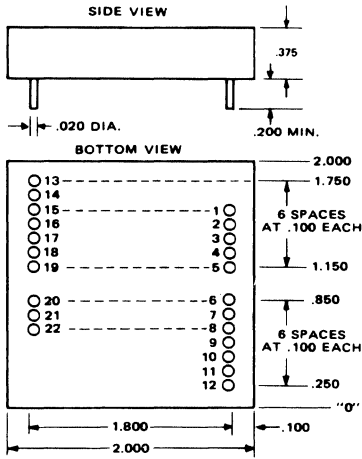
IN DRAWING NUMBER SEQUENCE



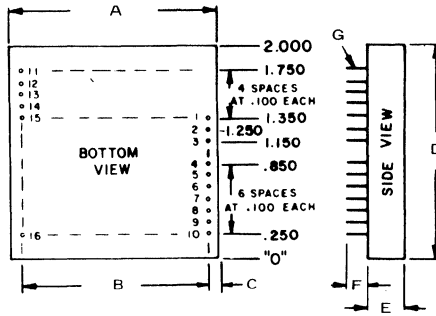
28. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

MD35

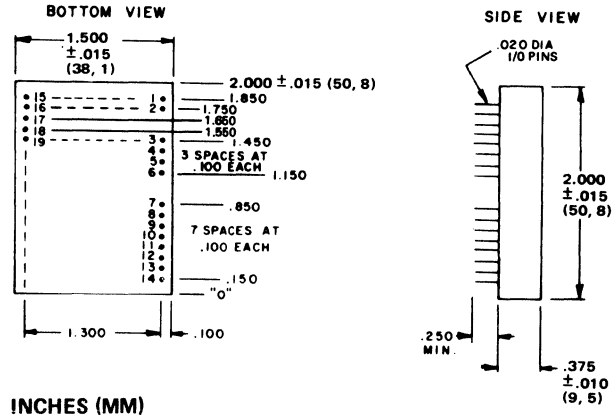


MD36



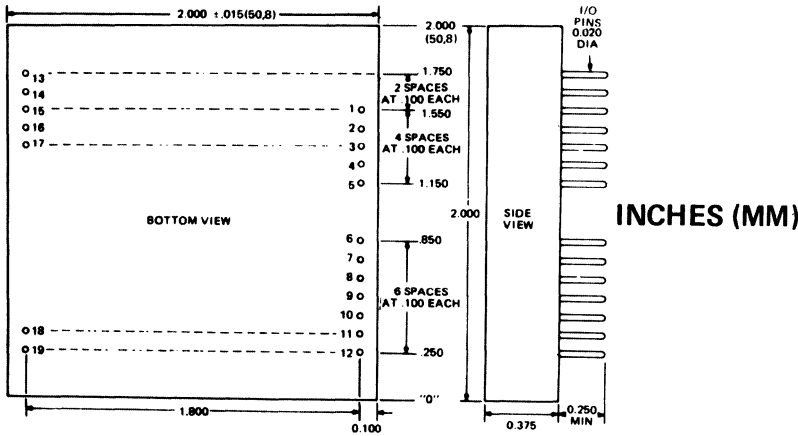
	A	B	C	D	E	F	G	REMARKS
MD36, a	1.985	1.80	.100	2.00	.375	.250	.020	Pins 9-10 Omitted for MD36a
MD36, c	2.015					MIN		
	Max		.100	2.01	.410	.200	.018	Pins 9-10 Omitted for MD36c
				MAX	MAX	MIN	.020	

MD37



INCHES (MM)

MD38

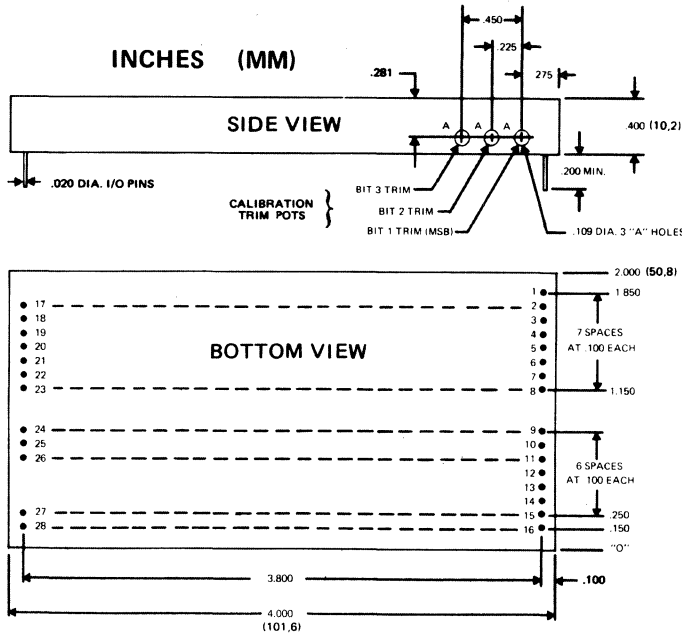


INCHES (MM)

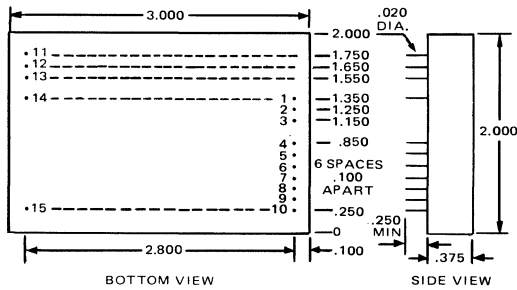
28. OUTLINE DRAWINGS

IN DRAWING NUMBER
SEQUENCE

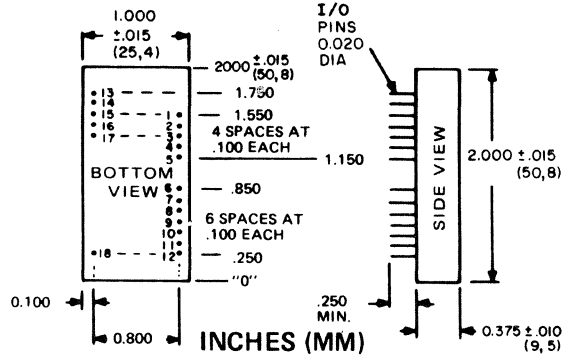
MD39



MD40



MD41

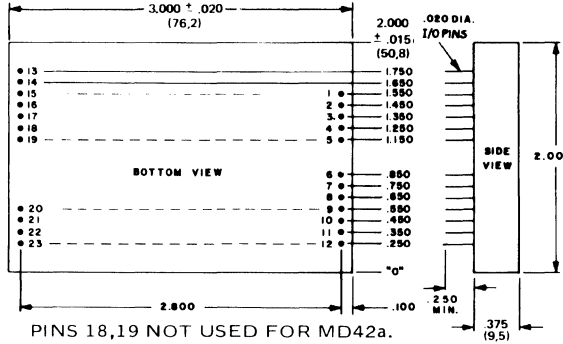


28. OUTLINE DRAWINGS

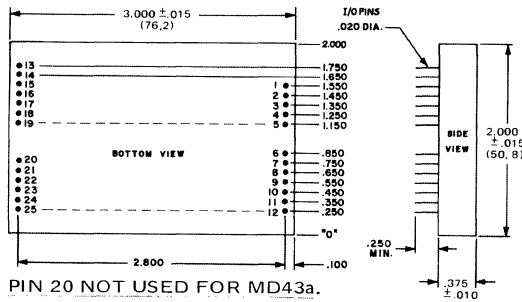
IN DRAWING NUMBER
SEQUENCE

MD42

INCHES (MM)

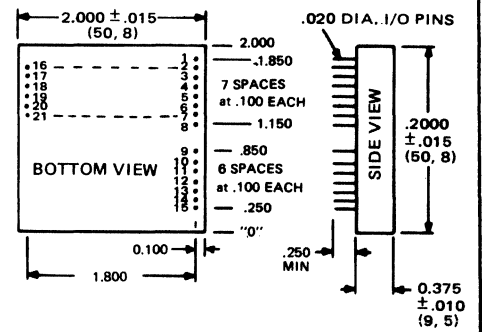


MD43

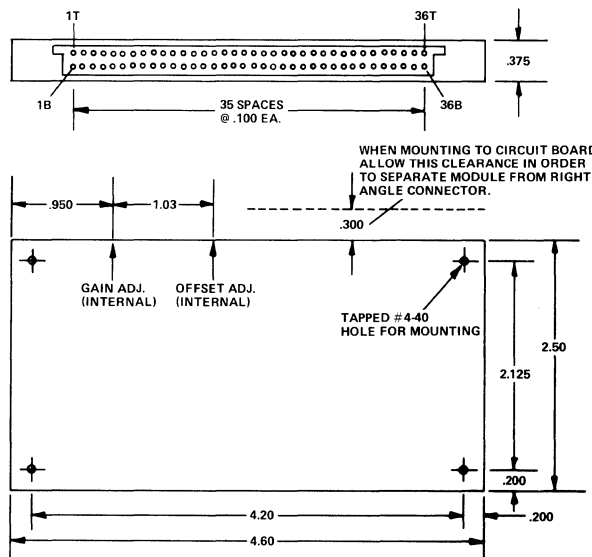


MD44

INCHES (MM)



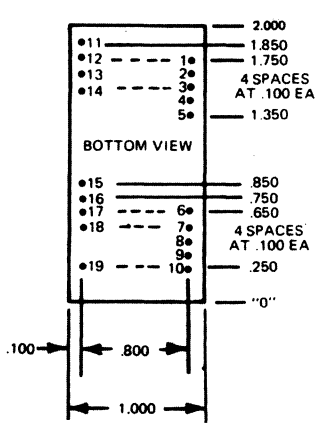
MD45



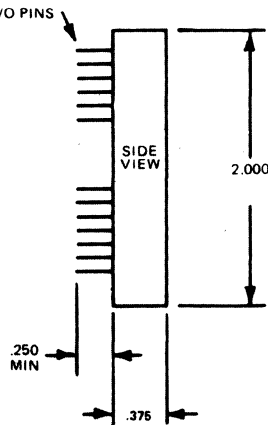
28. OUTLINE DRAWINGS

IN DRAWING NUMBER
SEQUENCE

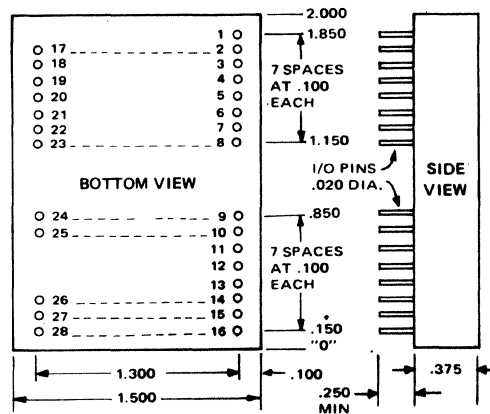
MD46



.020 DIA. I/O PINS

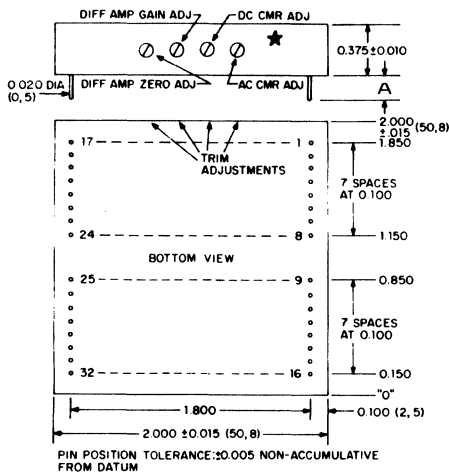


MD47



MD48

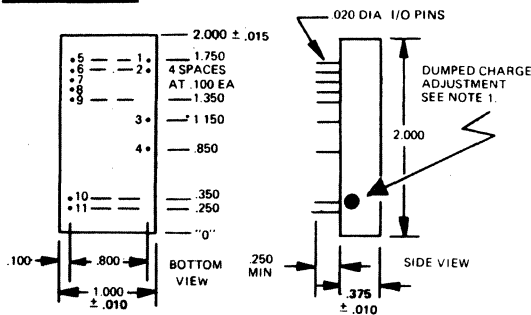
A	PINS USED
MD48	.200MIN As Shown
MD48a	.250MIN 1, 2, 15, 16, 17-21, 31, 32



INCHES (MM)

★ Note:
Correct sequence
of adjustments
should read
(left to right):
AC CMR ADJ
DIFF AMP ZERO ADJ
DIFF AMP GAIN ADJ
DC CMR ADJ

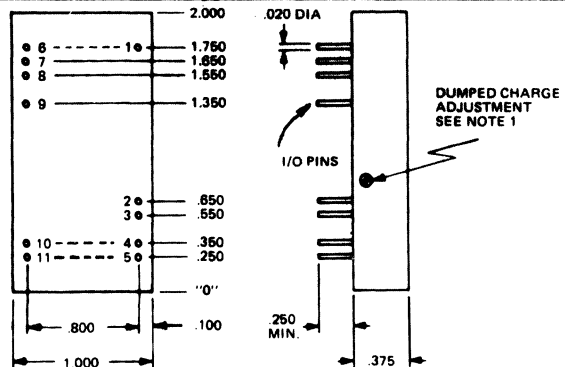
MD49



NOTE 1:
ADJUST FOR HOLD OFFSET AT $V_{IN} = 0$ VOLTS OR GROUND ANALOG INPUT.

NOTE 2:
FOR ±5V F.S. OR 0V TO +10V F.S. ANALOG INPUTS, CONNECT PINS 6 AND 8 TO -15V. FOR ±10V F.S. ANALOG INPUT, CONNECT PIN 8 TO -20V. NO CONNECTION FOR PIN 6.

MD50

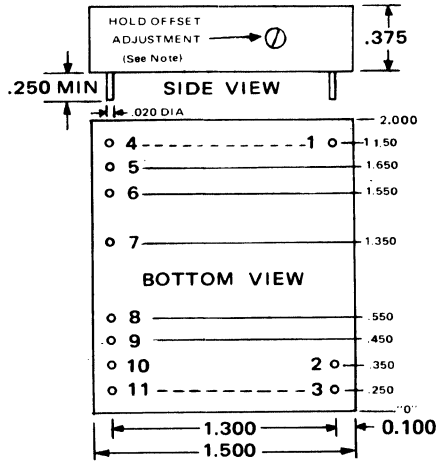


NOTE 1:
ADJUST FOR HOLD OFFSET AT $V_{IN} = 0$ VOLTS OR GROUND ANALOG INPUT

28. OUTLINE DRAWINGS

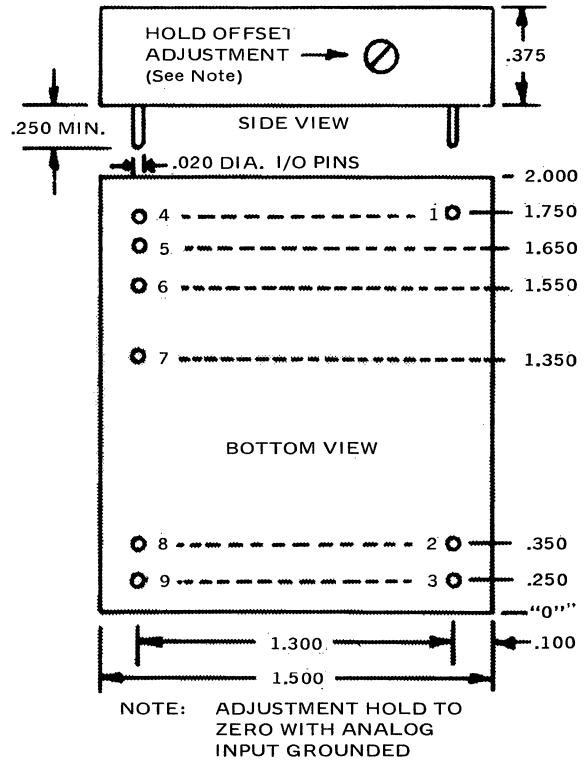
IN DRAWING NUMBER SEQUENCE

MD52



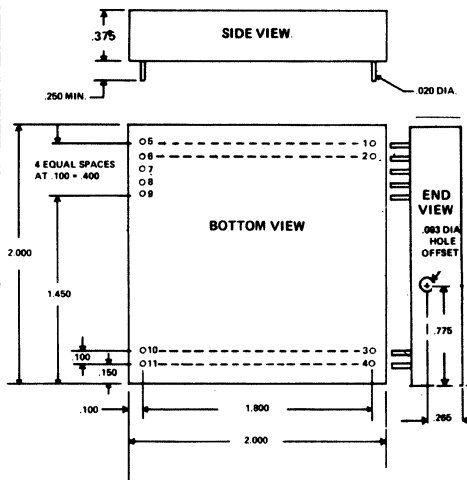
Note: Adjust hold offset for minimum output with analog input at ground while toggling sample/hold control with moderate speed 0 to +2.4V. squarewave.

MD53

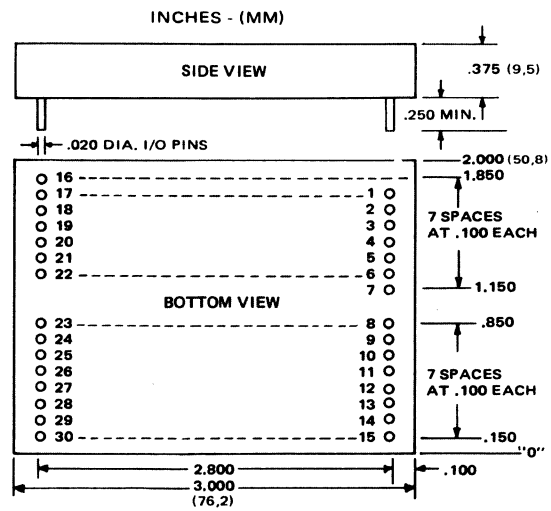


NOTE: ADJUSTMENT HOLD TO ZERO WITH ANALOG INPUT GROUND

MD54



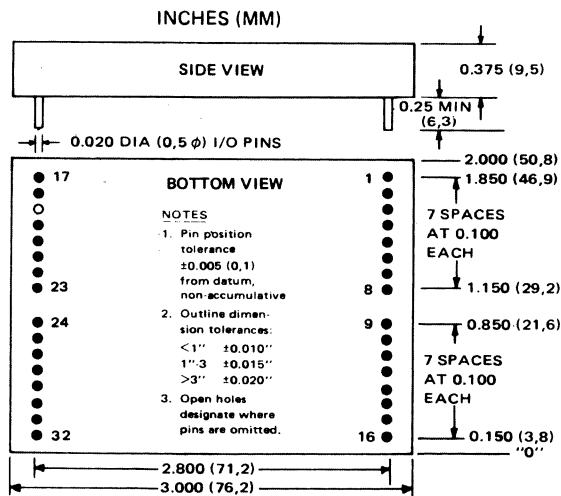
MD55



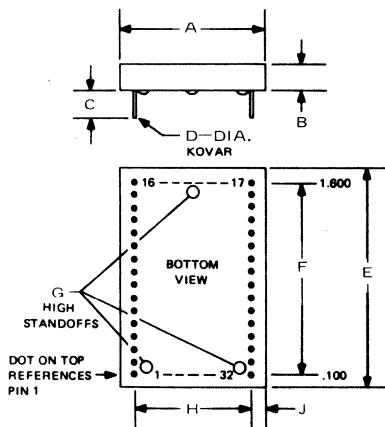
28. OUTLINE DRAWINGS

IN DRAWING NUMBER
SEQUENCE

MD56



MD57

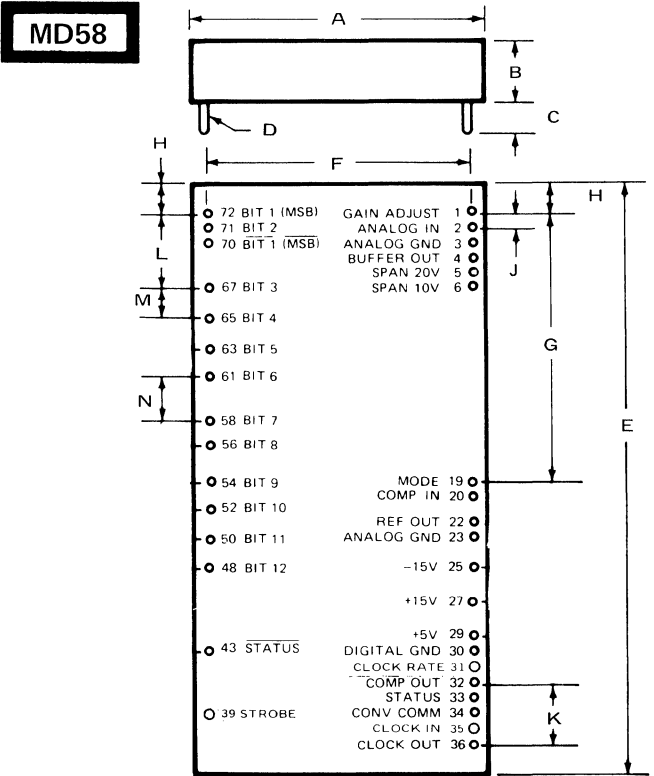


	A	B	C	D	E	F	G	H	J	REMARKS
MD57	1.10	.200 MAX	.230	.020 MAX	1.70	1.50	.023	.900	.100	Dot on Top References Pin 1
MD57a	1.125	.200	.230	.020 MAX	1.735	1.50	.030	.900	.100	
MD57b	1.10	.380	.250 MIN	.019 .021	1.70	1.50		.900	.100	
MD57c	1.125 MAX	.200 MAX	.245 MAX	.020	1.735 MAX	1.50	.035	.900		
MD57d	.830 MAX	.265 MAX	.250 MAX	.025	1.710 MAX	1.50		.675		
MD57e	.830 MAX	.265 MAX	.250 MAX	.025	1.710 MAX	1.50		.600		



28. OUTLINE DRAWINGS

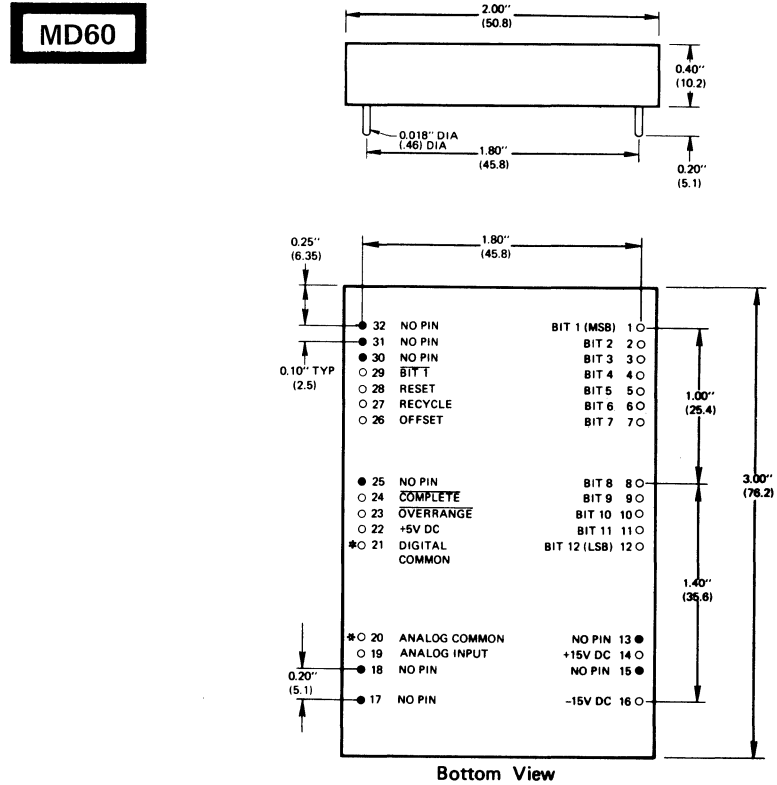
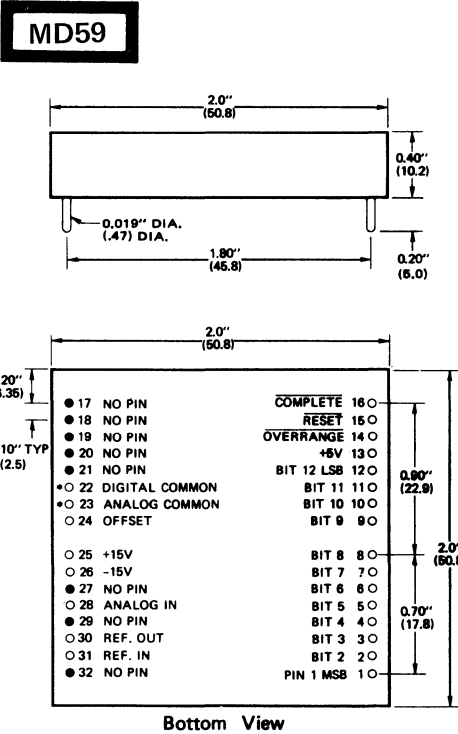
IN DRAWING NUMBER SEQUENCE



	A	B	C	D	E	F	G	H	J	K	L	M	N
MD58	2.00	.400	.290	.019 DIA	4.00	1.80	1.90	.200	.100	.400	.500	.200	.300
MD58a	2.02	.410 MAX	.200 MIN	.013 .023	4.02	1.80	1.90	.200	.100	.400	.500	.200	.300

PINS 31, 35, 39
FOR MD58a ONLY

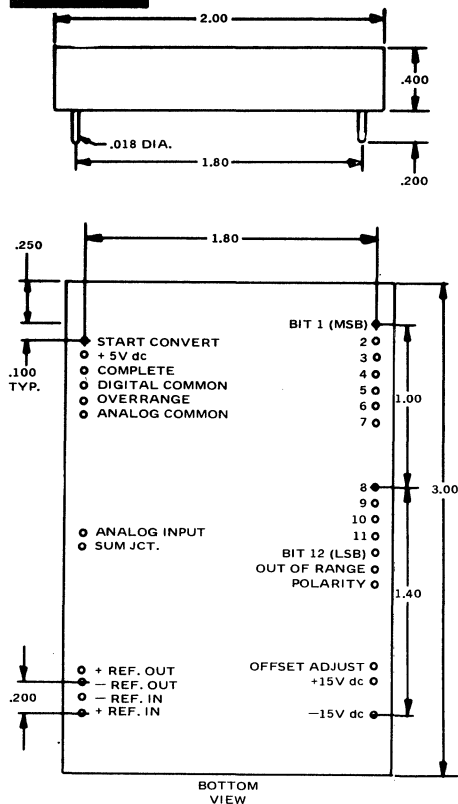
Pins 23 and 30 must be connected together externally.
Pins 3 and 23 are connected internally.



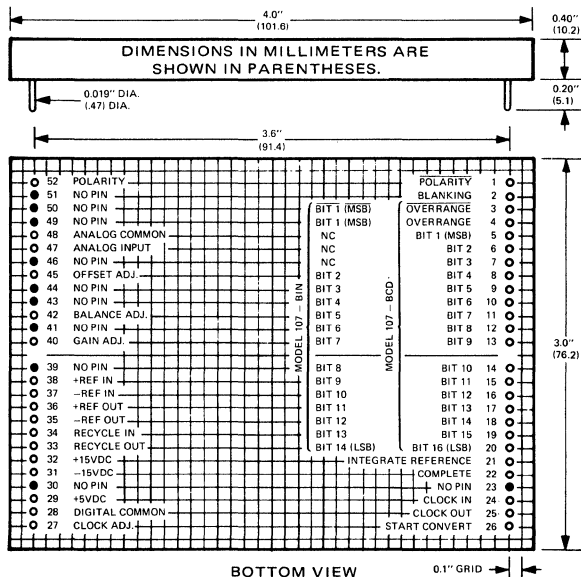
28. OUTLINE DRAWINGS

IN DRAWING NUMBER
SEQUENCE

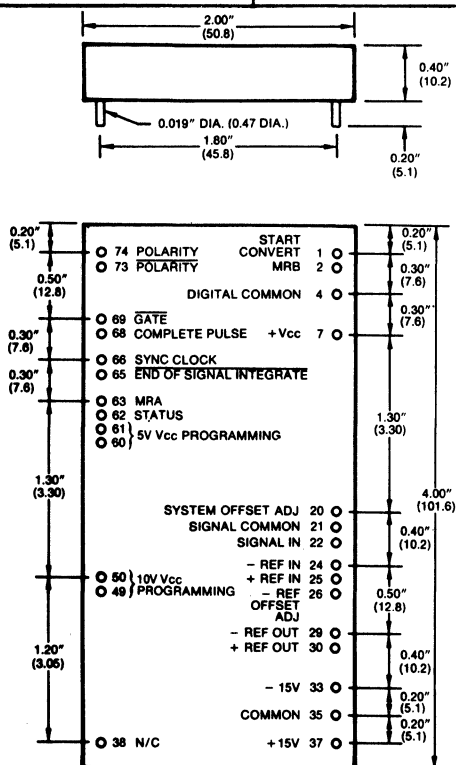
MD61



MD62



MD63

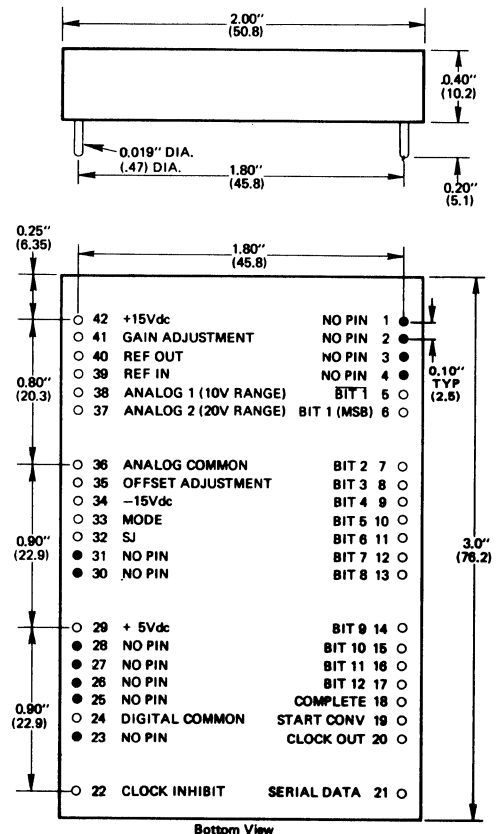


MD63a:
PIN 63 IS RESET
PINS 60 & 61 NOT AVAILABLE
PIN 50 IS ZERO WIDTH ADJUST
PIN 49 IS ANALOG COMMON
PIN 2 IS INTERNALLY CONNECTED TO PIN 7

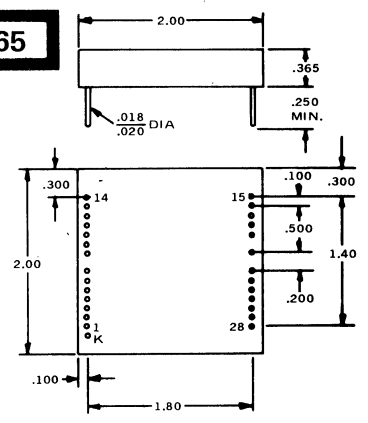
28. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

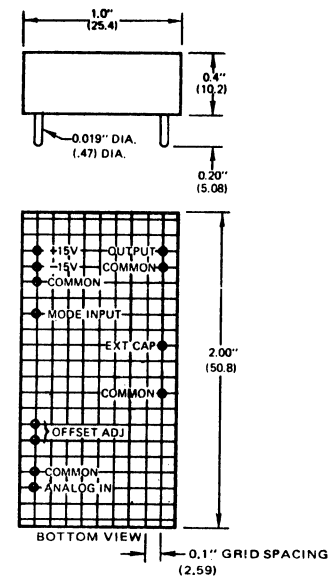
MD64



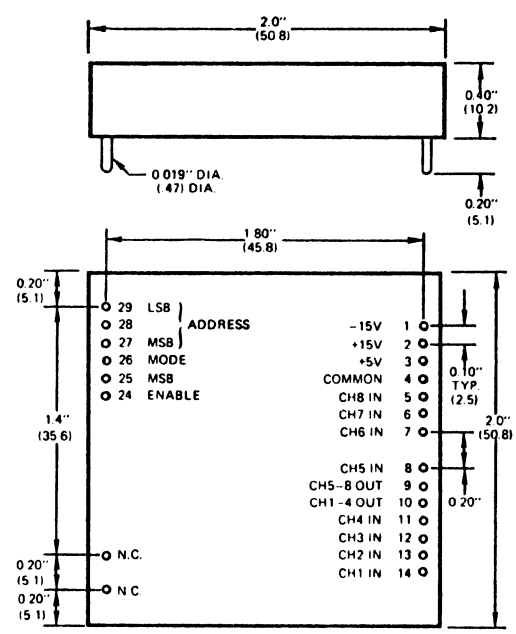
MD65



MD66



MD67

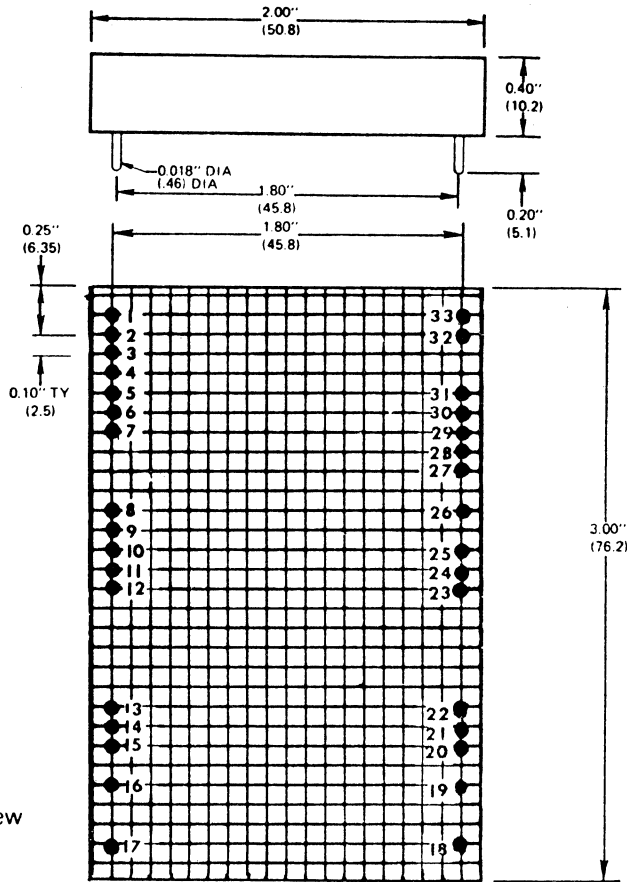


MD68

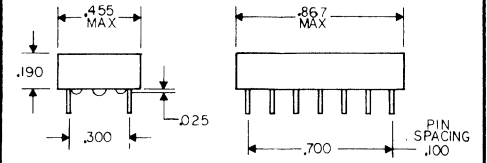
28. OUTLINE DRAWINGS

IN DRAWING NUMBER
SEQUENCE

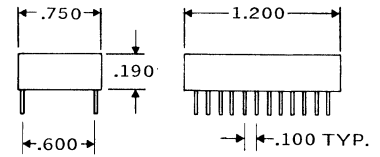
MD68



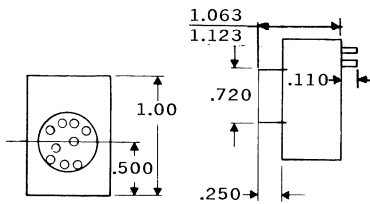
MD69



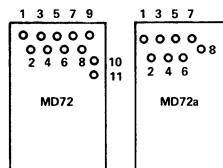
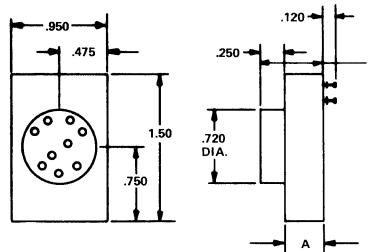
MD70



MD71

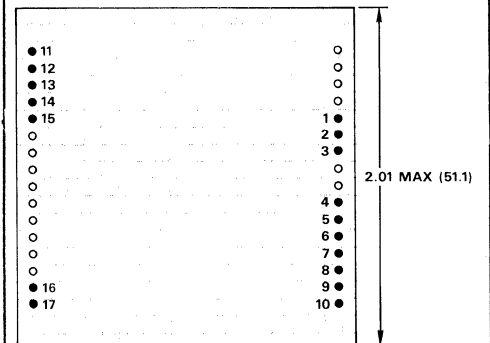
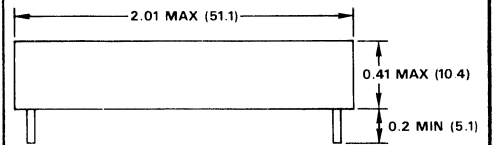


MD72



	A	B
MD72	.620	
MD72a		.620

MD74

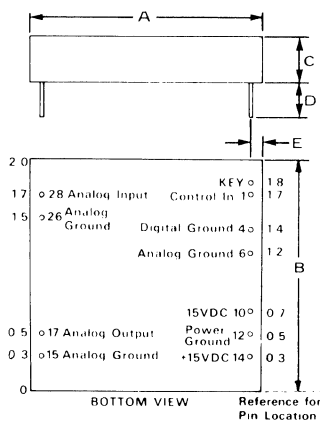


BOTTOM VIEW GRID 0.1" (2.5)

28. OUTLINE DRAWINGS

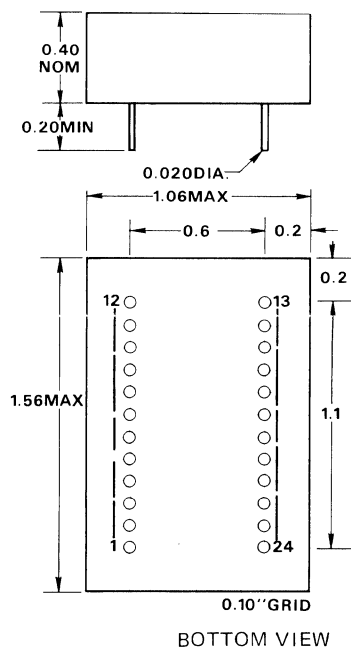
IN DRAWING NUMBER SEQUENCE

MD75

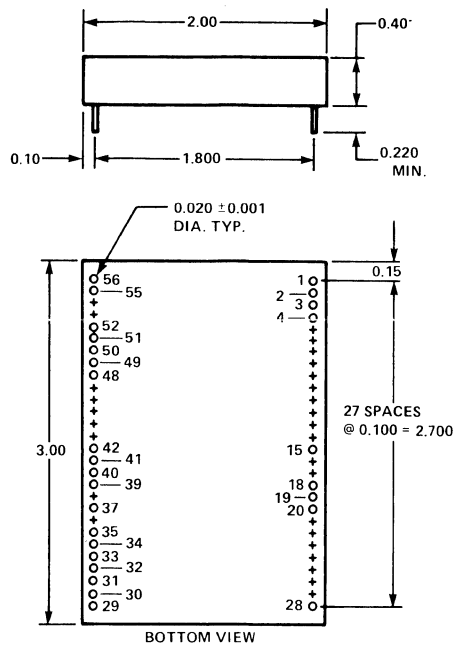


	A	B	C	D	E	PIN DIA	PINS USED
MD75	2.01 MAX	2.01 MAX	.410 MAX	.200 MIN	.100	.018 .020	K,1-7,9-14,15,16,18-28
MD75a	2.01 MAX	2.01 MAX	.410 MAX	.200 MIN	.100	.018 .020	K,1-3,5-18,21-28
MD75b	2.00		.400	.250 MIN .300 TYP	.100	.018 .020	K,1-4,6,10,12,14,15,17,26,28
MD75c	2.00	2.00	.400	.250 MIN .300 TYP	.100	.018 .020	K,1,2,4,5,7,9,11,13-16,18,21,23,24,26-27
MD75d	2.00	2.00	.400	.250 MIN .300 TYP	.100	.018 .020	K,1,2,4,5,7,9,11,13-16,18,21,23-24,26-28
MD75e	2.00	2.00	.400	.250 MIN .300 TYP	.100	.018 .020	K,1,2,4,5,7,9,11,13-16,18,21,23-25,26-28
MD75f	2.00	2.00	.400	.220 MIN	.100	.019 .021	K,1,3,5,7,9,11,13-22,25-28
MD75g	2.00	2.00	.375	.220 MIN	.100	.019 .021	K,1-7,8-14,15-21,22-28

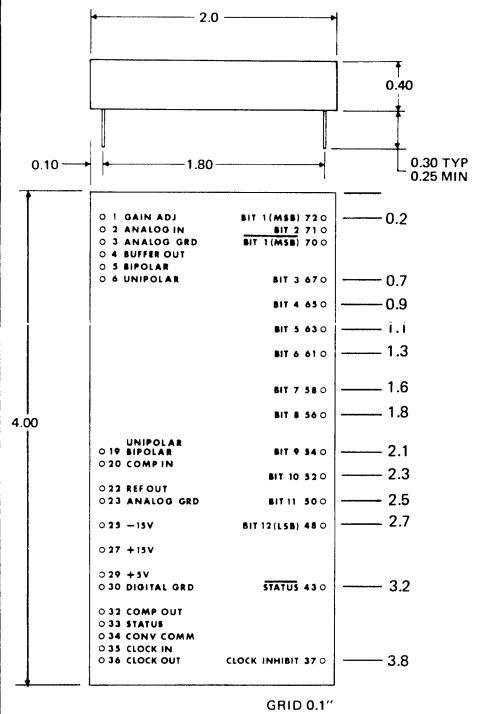
MD76



MD77



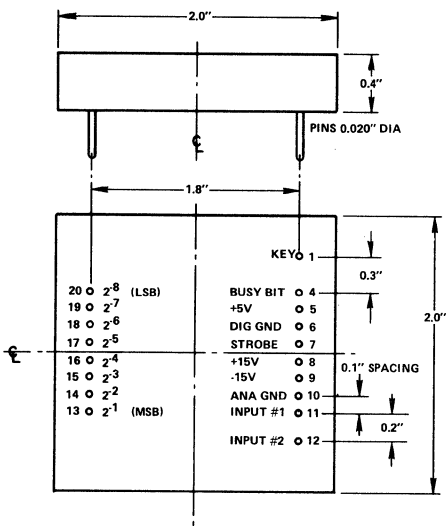
MD78



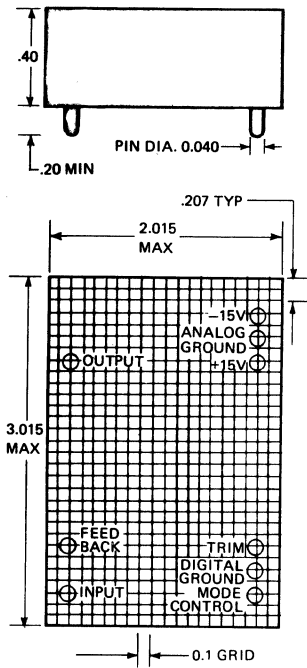
28. OUTLINE DRAWINGS

IN DRAWING NUMBER
SEQUENCE

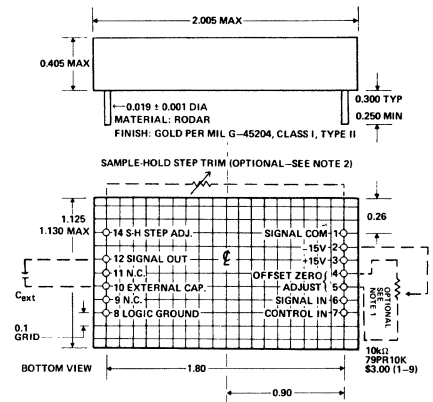
MD79



MD80



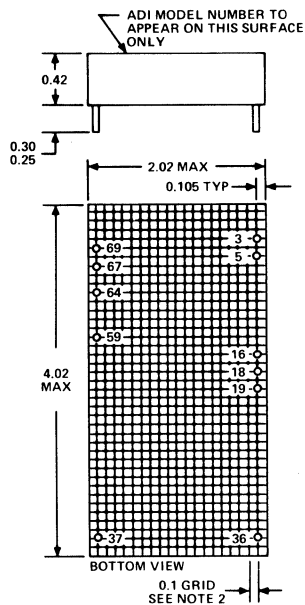
MD81



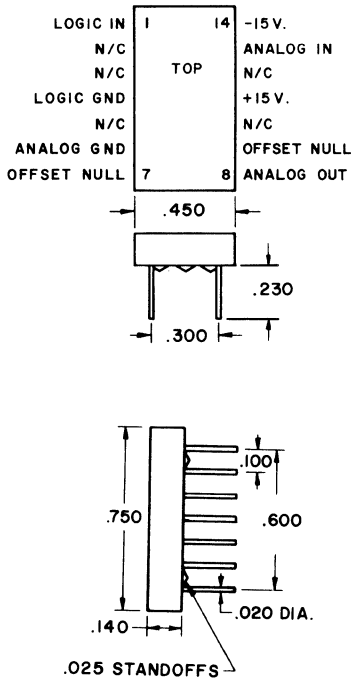
Notes:

- Offset zero adjustment: (optional)
 - Sample mode, signal input grounded, adjust for output zero
- Sample-to-Hold offset step trim (optional)
 - 100Ω max
 - Adjust for minimum offset step when external capacitor is used

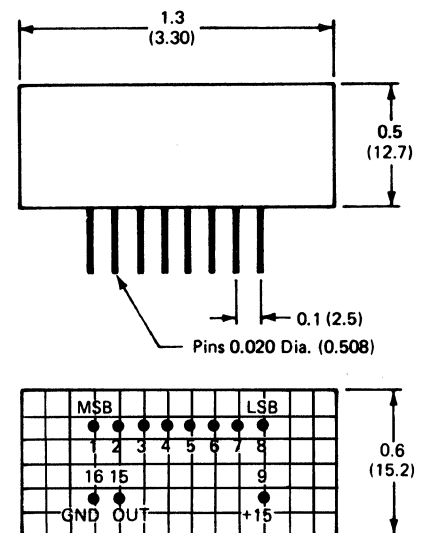
MD82



MD83



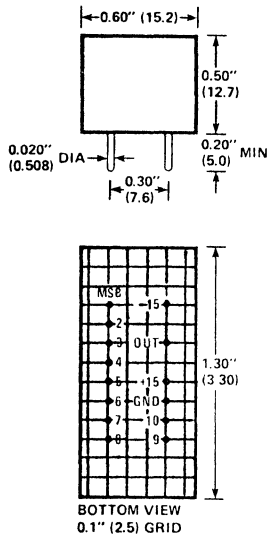
MD84



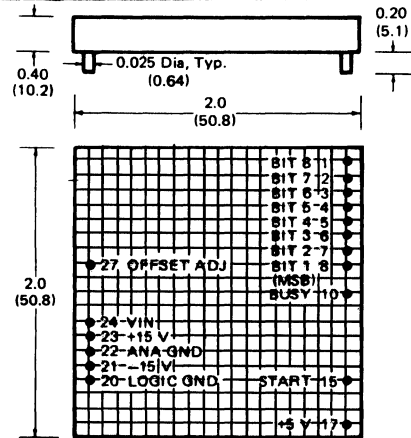
28. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

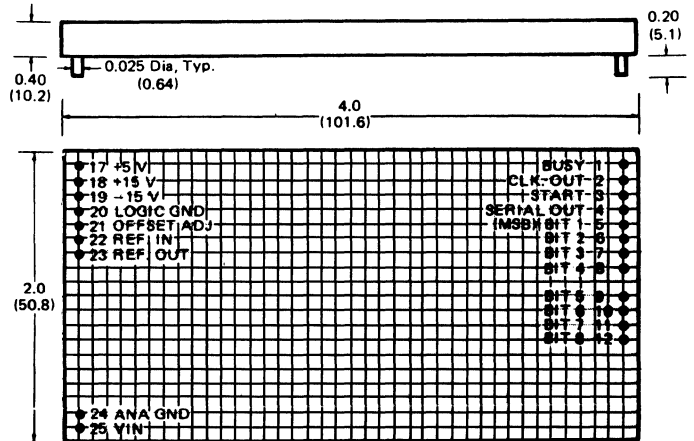
MD85



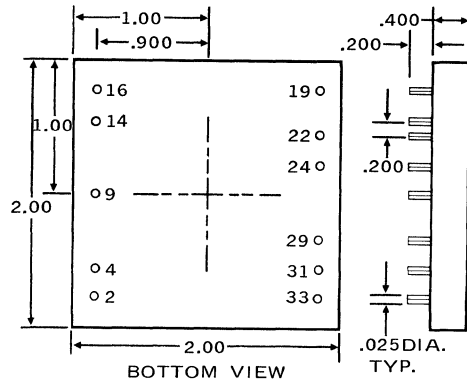
MD86



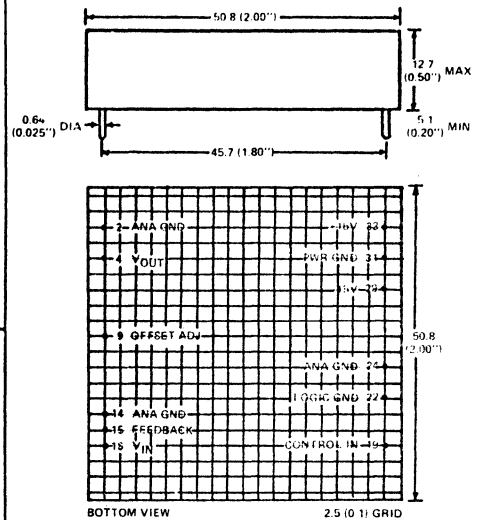
MD87



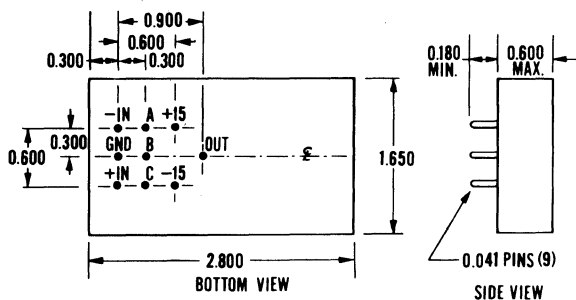
MD88



MD89



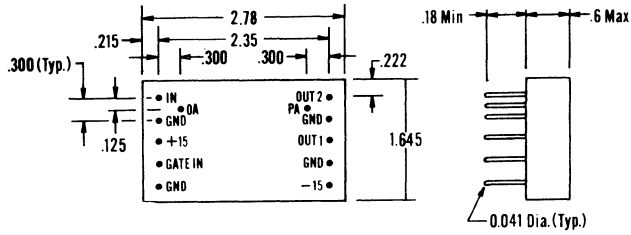
MD90



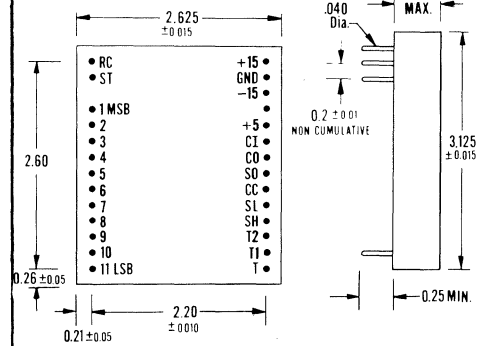
28. OUTLINE DRAWINGS

IN DRAWING NUMBER
SEQUENCE

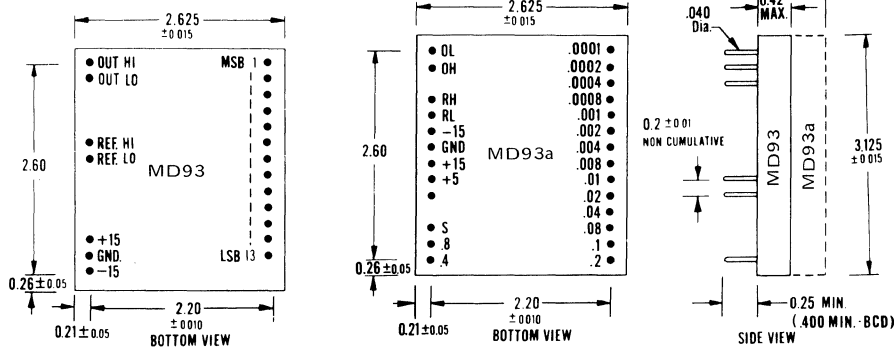
MD91



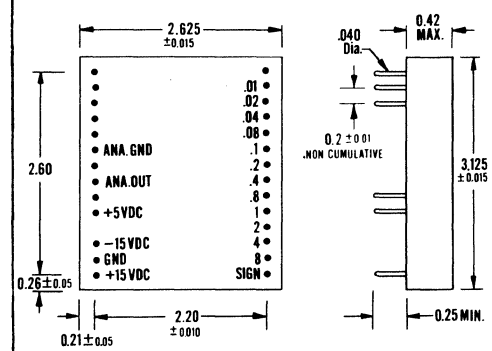
MD92



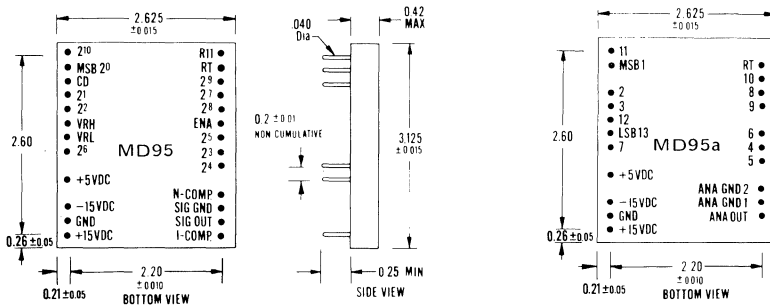
MD93



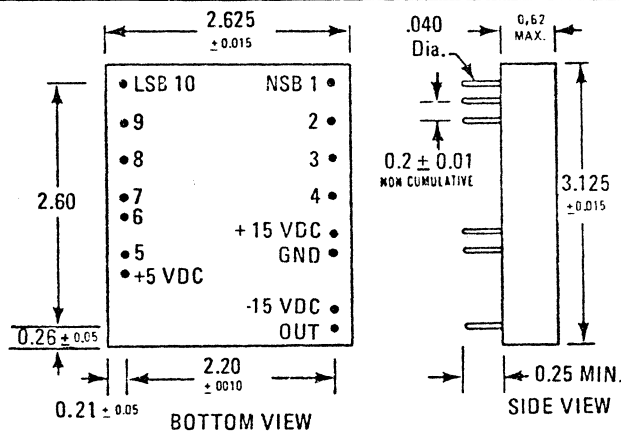
MD94



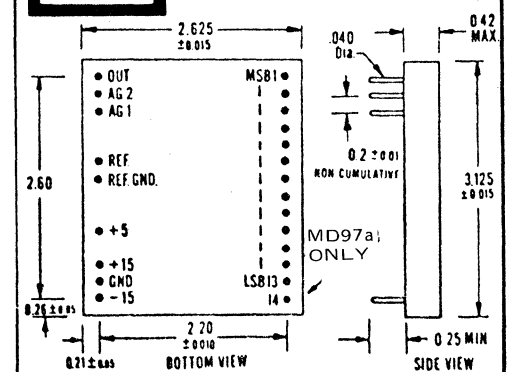
MD95



MD96



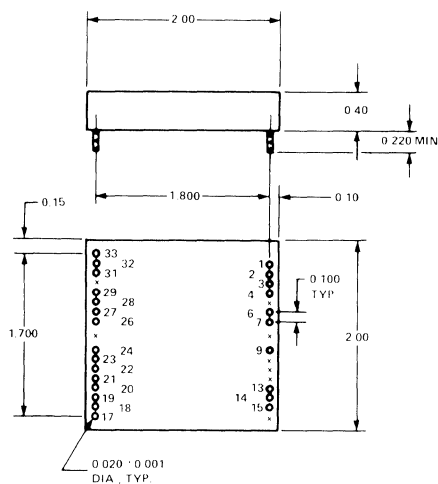
MD97



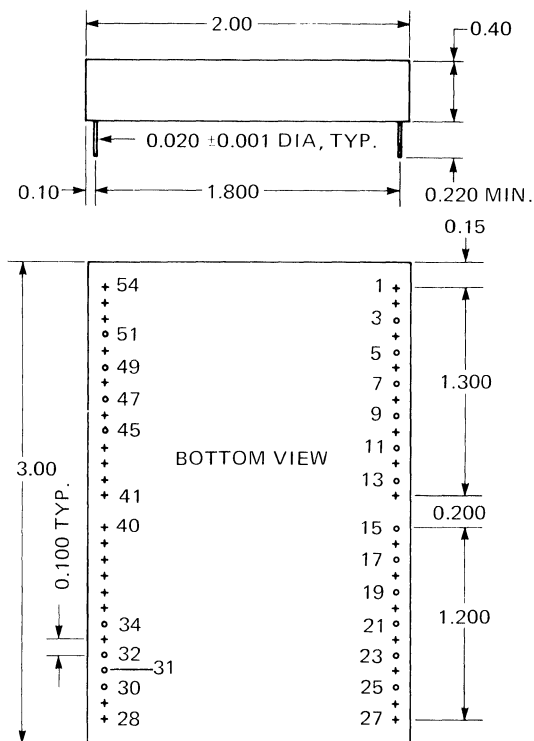
28. OUTLINE DRAWINGS

IN DRAWING NUMBER
SEQUENCE

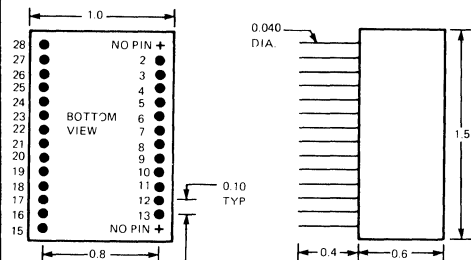
MD98



MD99

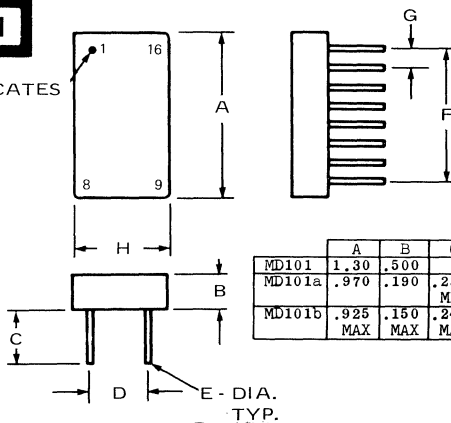


MD100



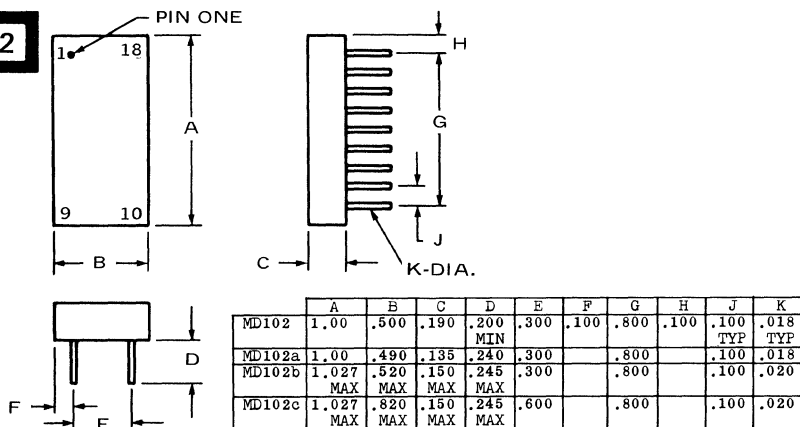
MD101

DOT
INDICATES
PIN 1

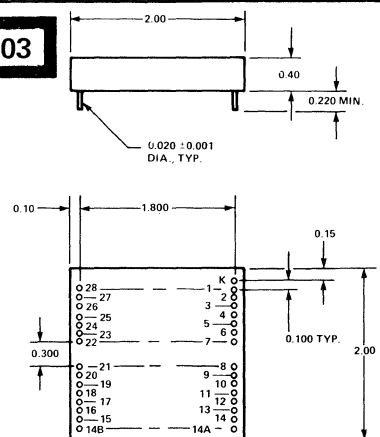


	A	B	C	D	E	F	G	H	PINS USED
MD101	1.30	.500	.300	.020	.700	.100	.600		1-8, 9, 15, 16
MD101a	.970	.190	.230 MIN	.300	.018	.700	.100	.500	1-8, 9-16
MD101b	.925 MAX	.150 MAX	.245 MAX	.300	.020	.700	.100	.520 MAX	

MD102



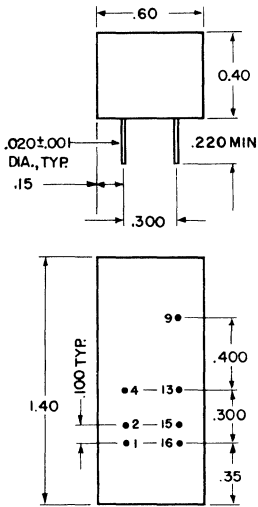
MD103



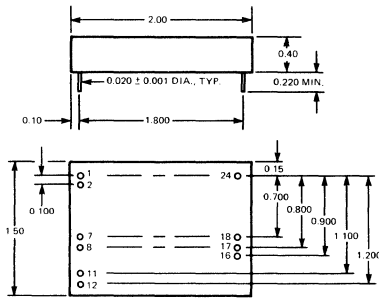
28. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

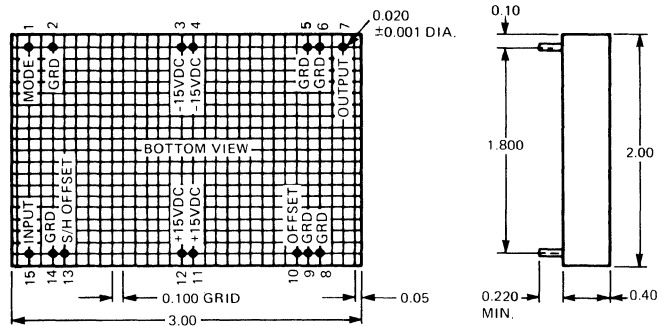
MD104



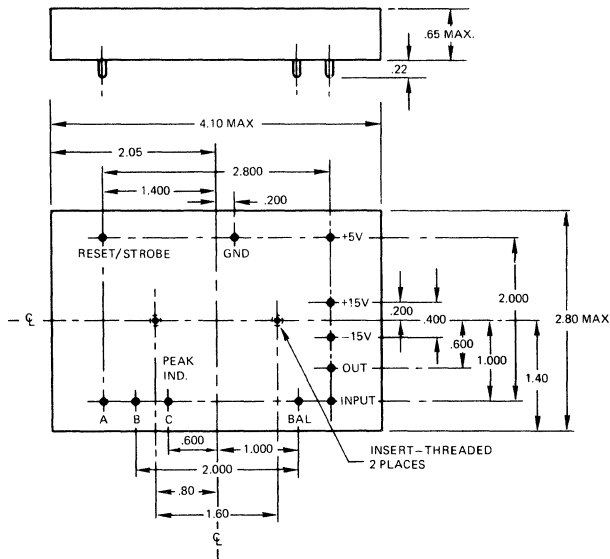
MD105



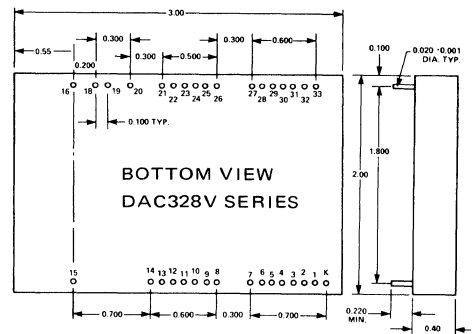
MD106



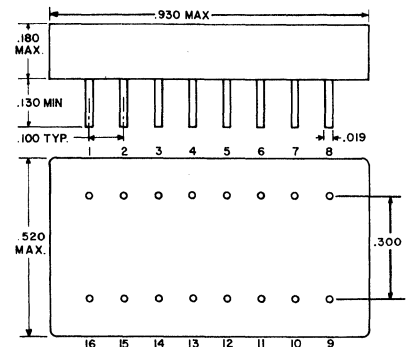
MD107



MD108



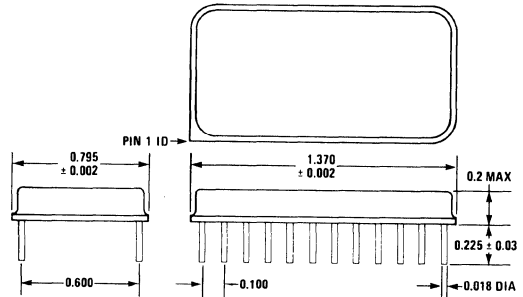
MD109



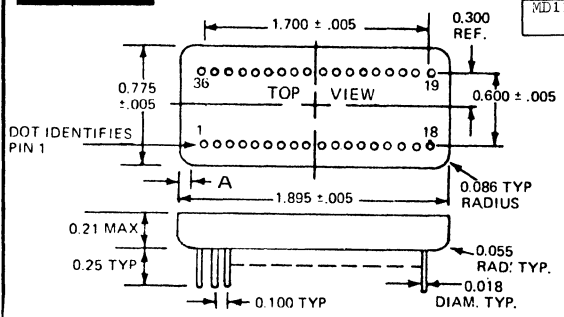
28. OUTLINE DRAWINGS

IN DRAWING NUMBER
SEQUENCE

MD110

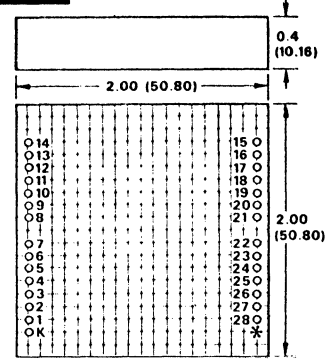


MD111

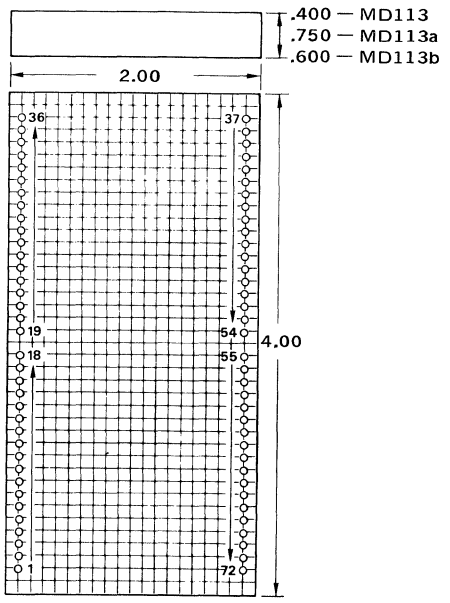


	A	REMARKS
MD111	.040 TYP	Case Is Electrically Floating
MD111a	.090	Case Is Tied To Analog Ground
	.110	

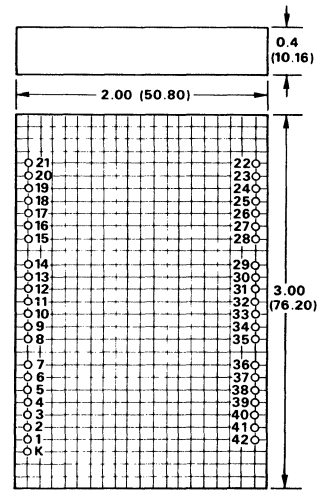
MD112



MD113



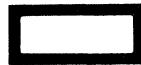
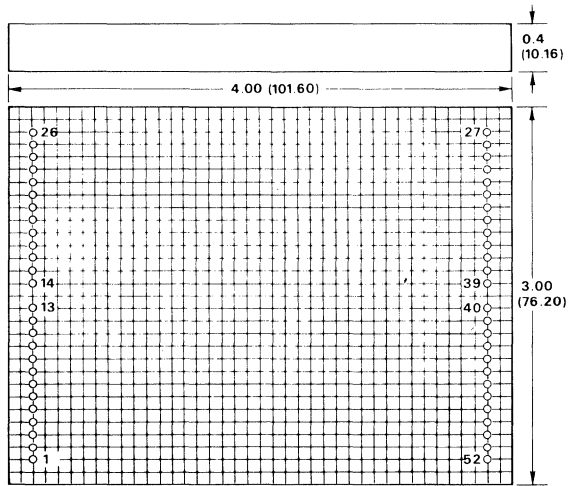
MD114



28. OUTLINE DRAWINGS

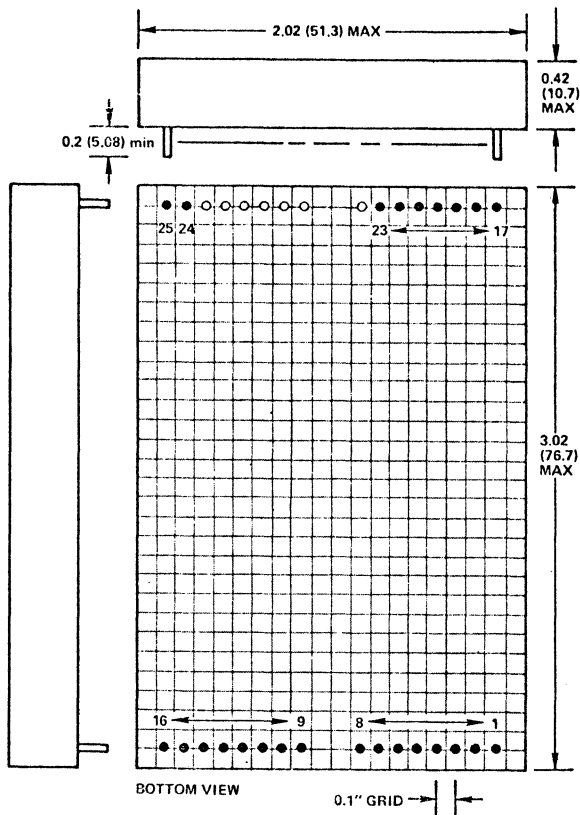
IN DRAWING NUMBER
SEQUENCE

MD115



MD116

Dimensions shown in inches and (mm).

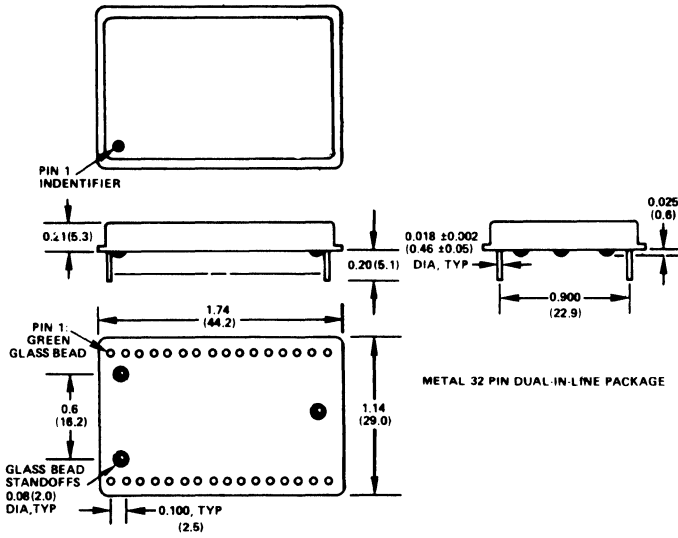


Pins are installed only in shaded hole locations.
Pins are half hard brass, gold plated per MIL-G-45204B, Class I, Type II. Pin Diameter is 0.019" (0.483mm) ±0.001" (0.025mm).
For plug-in mounting card, order Board No. AC-1520 @ \$25.00.

28. OUTLINE DRAWINGS

IN DRAWING NUMBER
SEQUENCE

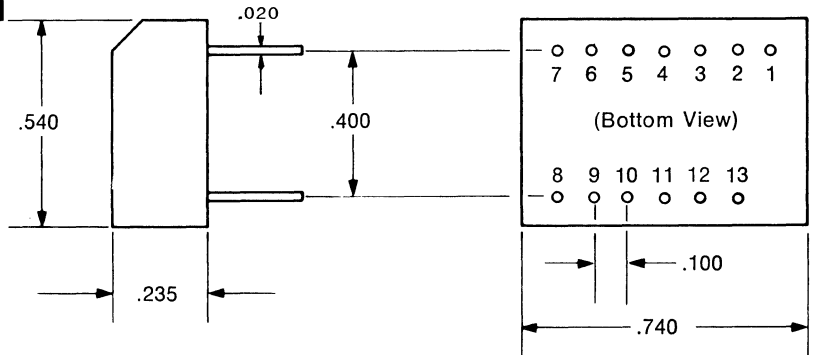
MD117



METAL 32 PIN DUAL-IN-LINE PACKAGE

4) TOLERANCES, UNLESS OTHERWISE NOTED:
a) .XX: ±.01 (.25)
b) .XXX: ±.005 (.13)

MD119

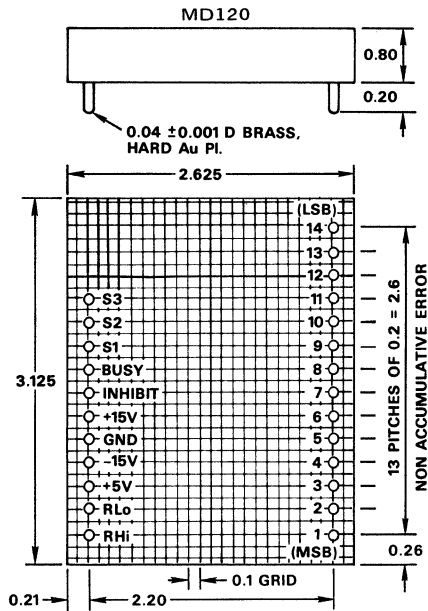


(Bottom View)

28. OUTLINE DRAWINGS

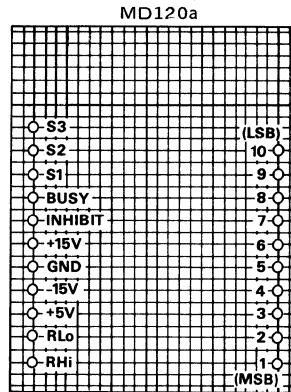
IN DRAWING NUMBER
SEQUENCE

MD120

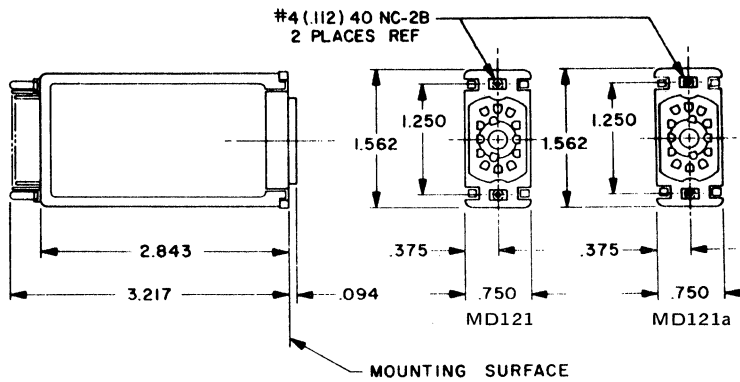


CONNECTIONS

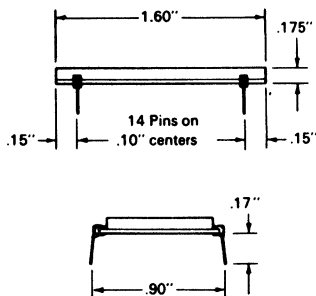
S1, S2 and S3 are always the three wire synchro signal inputs.
RLO and RHI are always the reference inputs
Pins 1 (MSB) thru 14 (LSB) are always the digital outputs on a 14 bit device (most significant to least significant bits).
Pins 1 (MSB) thru 10 (LSB) are always the digital outputs on a 10 bit device.
+15V, -15V and +5V are the power supply inputs.
GND is common for the supplies and the digital outputs.



MD121

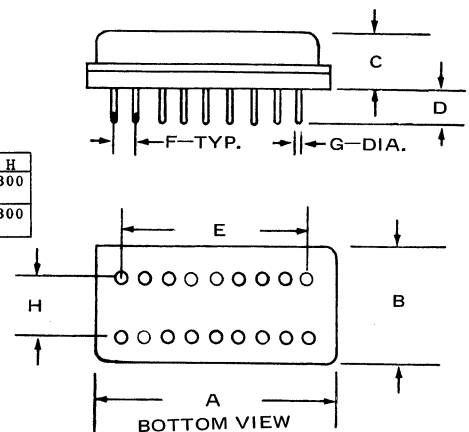


MD122



MD123

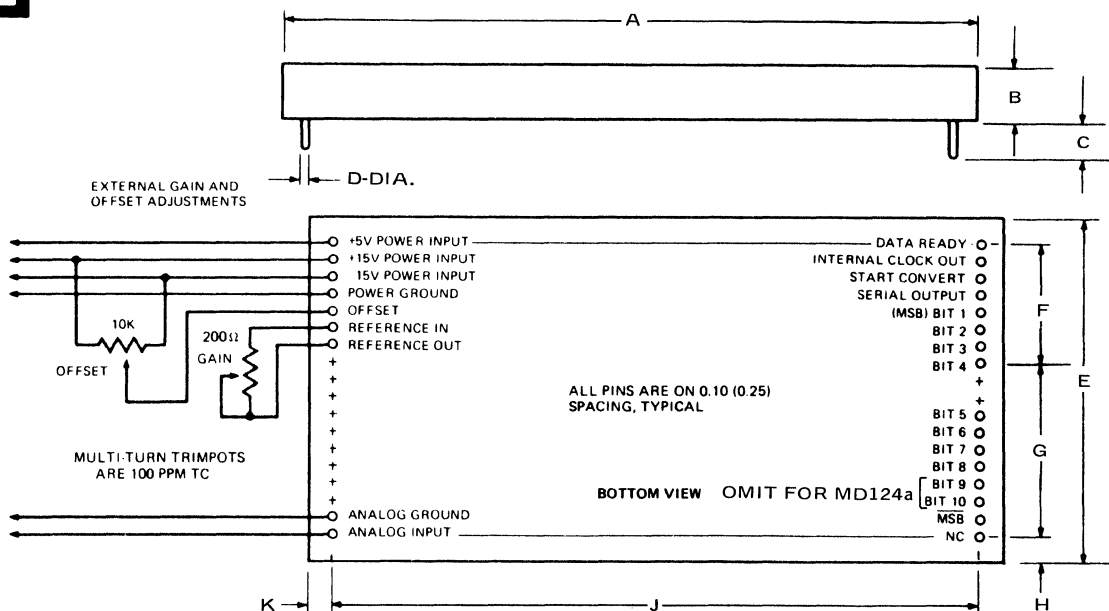
	A	B	C	D	E	F	G	H
MD123	1.07	.500	.200	.130 MIN	.800	.100	.018	.300
MD123a	1.07	.500	.185	.250 MIN	.800	.100	.018	.300



28. OUTLINE DRAWINGS

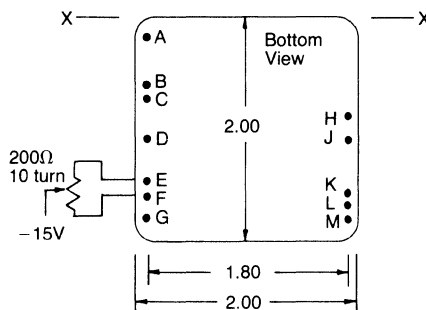
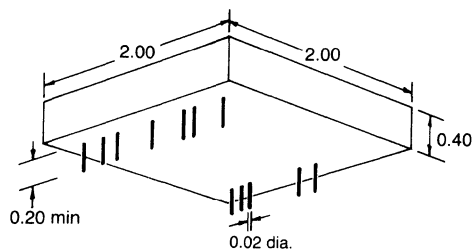
IN DRAWING NUMBER
SEQUENCE

MD124



	A	B	C	D	E	F	G	H	J	K
MD124	4.00	.375	.200 MIN	.020 DIA	2.00	.700	1.00	.150	3.80	.100
MD124a	4.02 MAX	.420 MAX	.200 MIN	.017 MAX	2.02	.700	1.00	.150	3.80	.100
MD124b	4.02 MAX	.420 MAX	.200 MIN	.017 MAX	2.02	.700	1.00	.150	3.80	.100

MD125



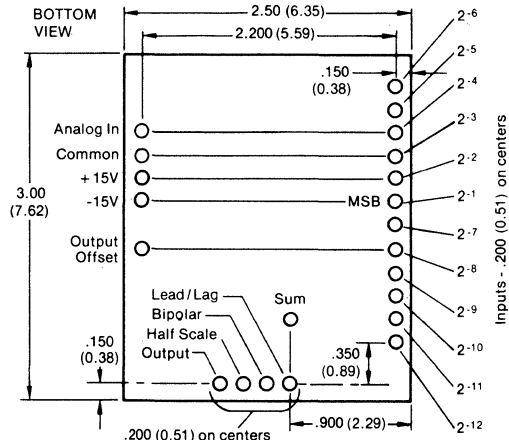
Pin	Pin Center Distance from XX
A	0.20
B	0.60
C	0.70
D	1.10
E	1.50
F	1.60
G	1.80
H	0.90
J	1.10
K	1.60
L	1.70
M	1.80



28. OUTLINE DRAWINGS

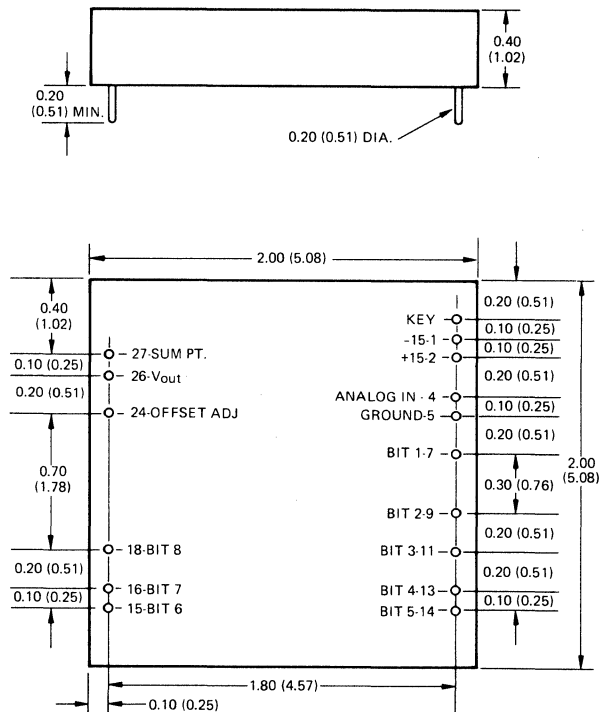
IN DRAWING NUMBER
SEQUENCE

MD126



- All pins 0.040" x 0.20" (0.10 x 0.51)
 - Module height 0.5" (1.27)
 - 12 bit configuration shown, 8/10 bit units have bits of lesser significance removed.
- All dimensions in parentheses are expressed in centimeters.

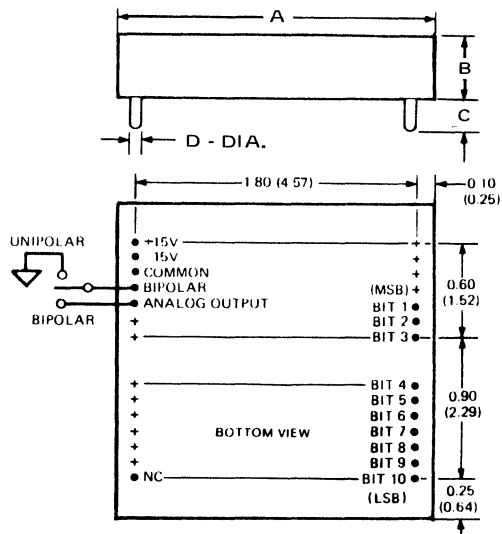
MD127



28. OUTLINE DRAWINGS

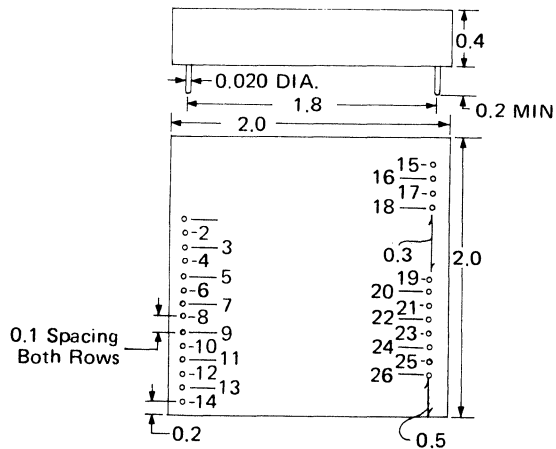
IN DRAWING NUMBER
SEQUENCE

MD128



	A	B	C	D	UNUSED PINS
MD128	2.00	.375	.200	.018	
MD128a	2.02	.410	.200	.013	
	MAX	MAX	MIN	.023	
MD128b	2.02	.410	.200	.013	Bit 9, Bit 10
	MAX	MAX	MIN	.023	

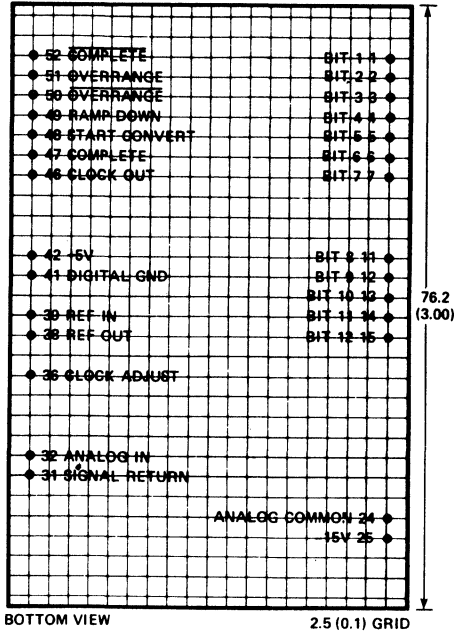
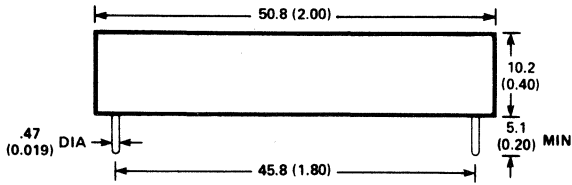
MD129



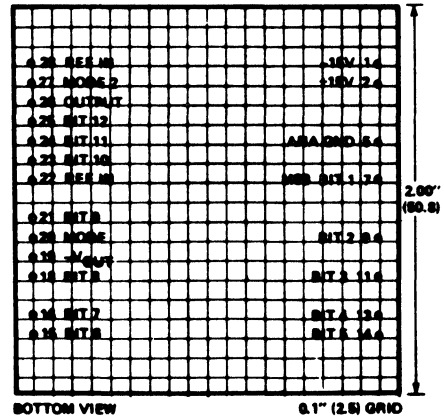
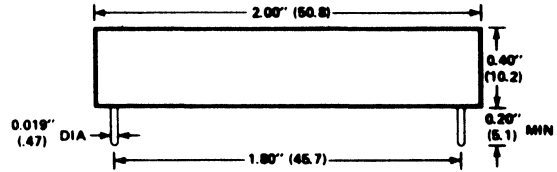
28. OUTLINE DRAWINGS

IN DRAWING NUMBER
SEQUENCE

MD130



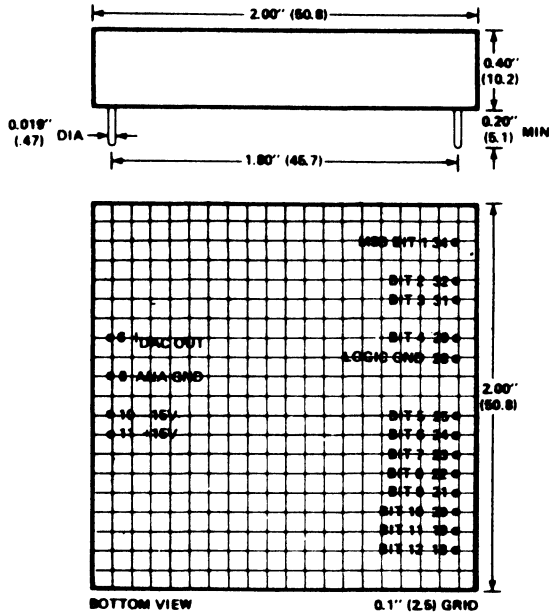
MD131



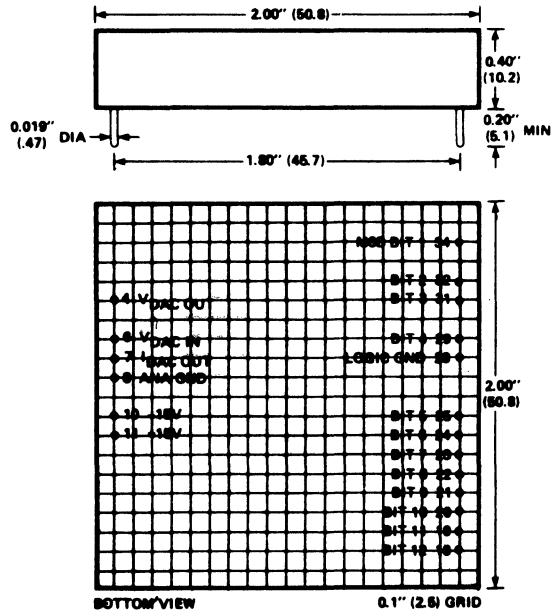
28. OUTLINE DRAWINGS

IN DRAWING NUMBER
SEQUENCE

MD132



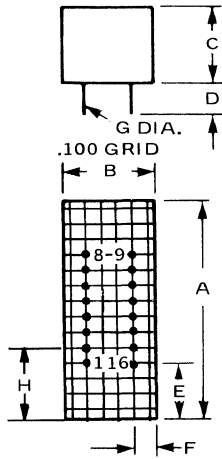
MD133



28. OUTLINE DRAWINGS

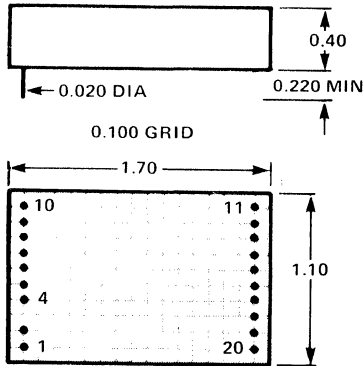
IN DRAWING NUMBER
SEQUENCE

MD138

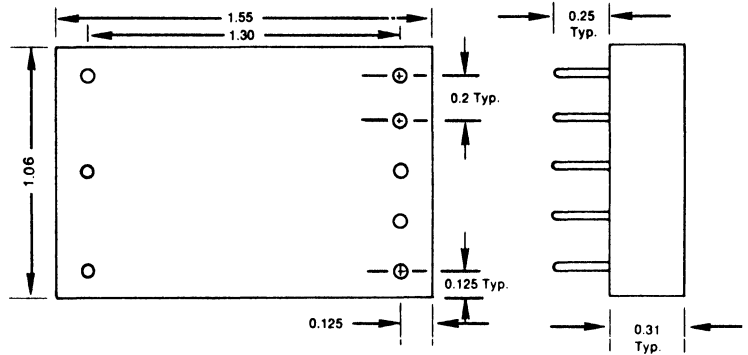
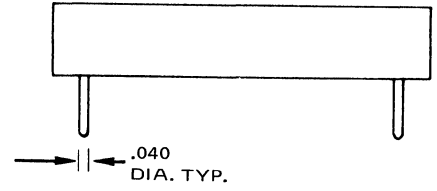


	A	B	C	D	E	F	G	H
MD138	1.40	.600	.500	.220 MIN	.350	.150	.020	
MD138a	1.30	.600	.500	.250 MIN	.310	.150	.020	
MD138b	1.40	.600	.400	.220 MIN	.350	.150	.019 .021	
MD138c	1.40	.600	.500	.220 MIN		.150	.019 .021	.625

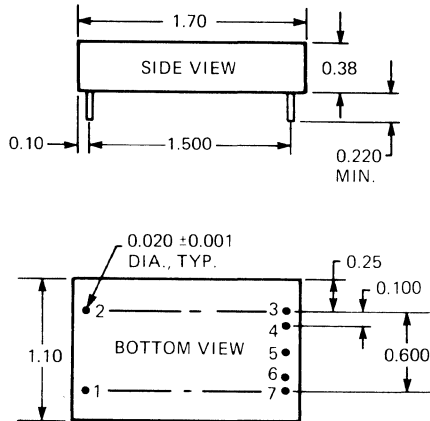
MD139



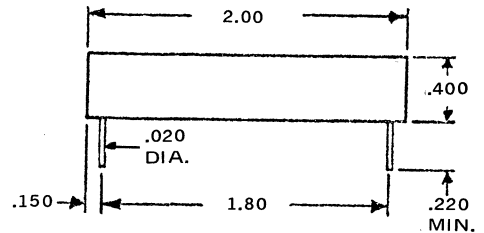
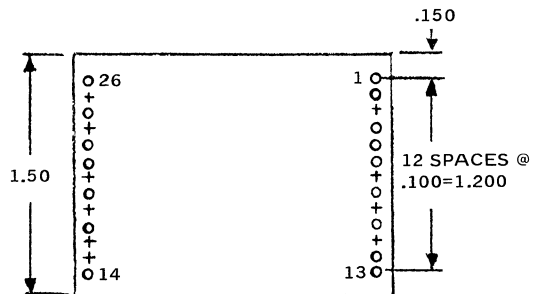
MD140



MD141



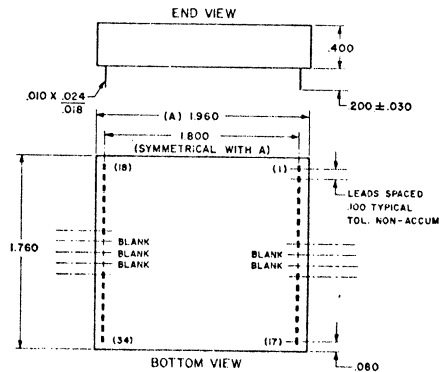
MD142



28. OUTLINE DRAWINGS

IN DRAWING NUMBER
SEQUENCE

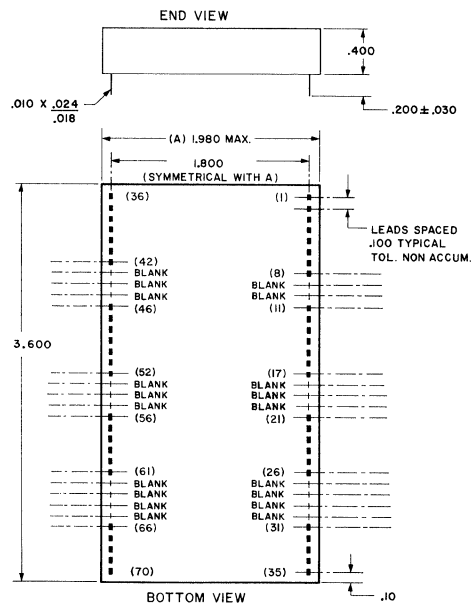
MD143



NOTES:

1. Tolerance: ± 0.010 unless noted.
2. Leads "float" to accommodate error in connector location.
3. Case material: transfer molded epoxy.
4. Leads: beryllium copper, gold-plated.
5. Bottom surface double coated with epoxy - Dielectric insulation of 450 V/mil or greater.

MD144



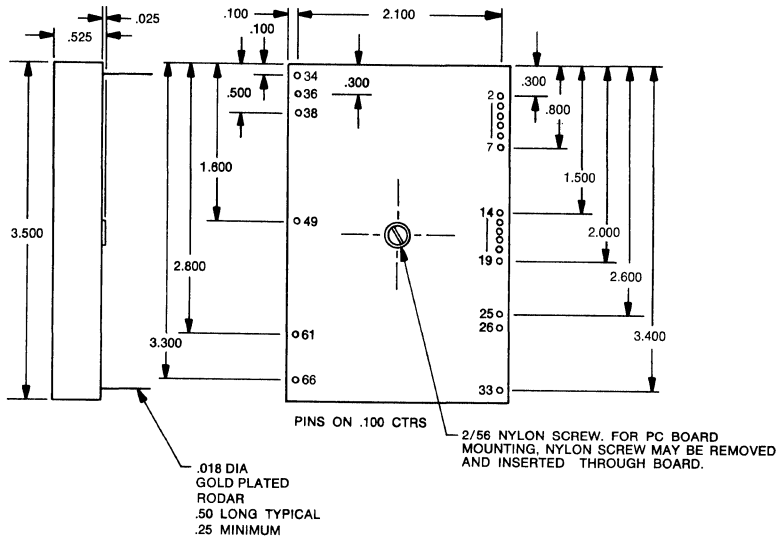
NOTES:

1. Tolerance: ± 0.010 unless noted.
2. Leads "float" to accommodate error in connector location.
3. Case material: transfer molded epoxy.
4. Leads: beryllium copper, gold-plated.
5. Bottom surface double coated with epoxy - Dielectric insulation of 450 V/mil or greater.

28. OUTLINE DRAWINGS

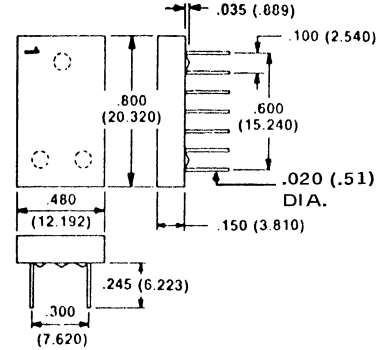
IN DRAWING NUMBER
SEQUENCE

MD145



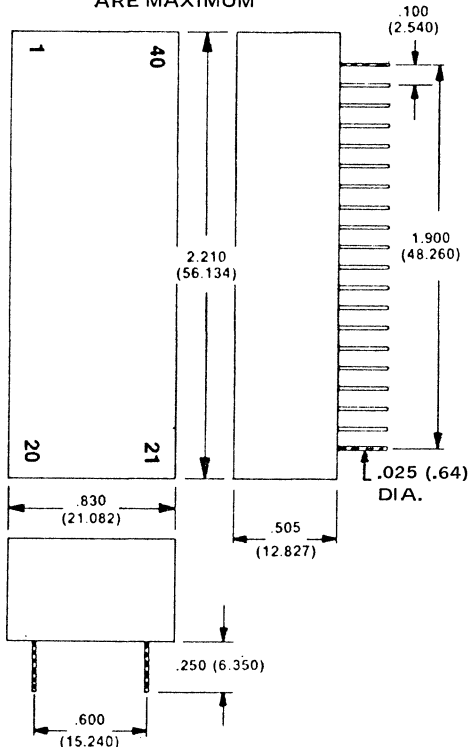
MD146

NOTE: ALL OUTLINE DIMENSIONS ARE MAXIMUM

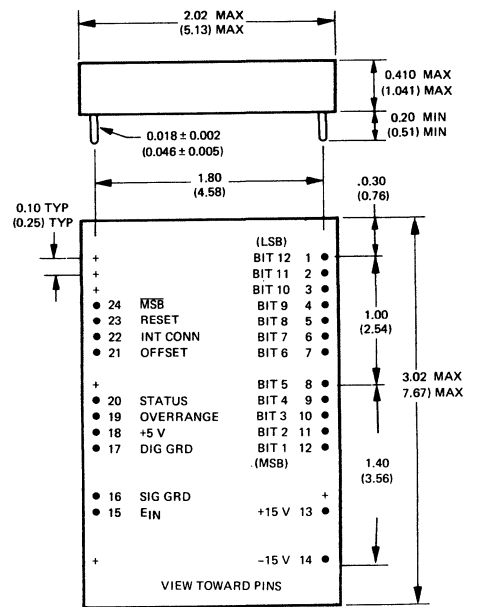


MD147

NOTE: ALL OUTLINE DIMENSIONS ARE MAXIMUM



MD148

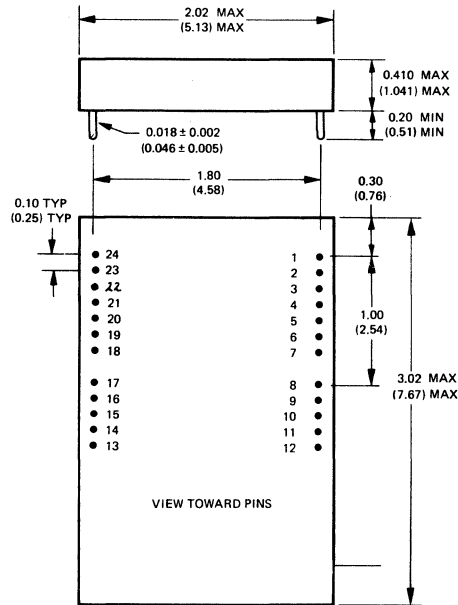


±0.01 Non-cumulative tolerance between pins
±0.02 Tolerance from case edge to center of pins

28. OUTLINE DRAWINGS

IN DRAWING NUMBER
SEQUENCE

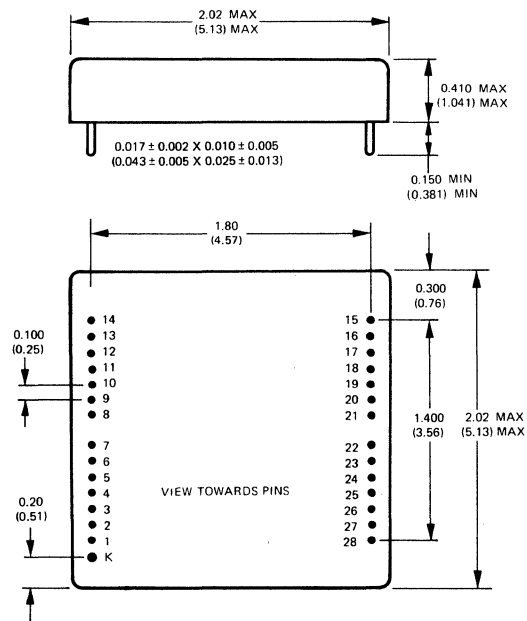
MD149



±0.01 Non-cumulative tolerance between pins
±0.02 Tolerance from case edge to center of pins

PINS USED	
MD149	1 to 21, 23, 24
MD149a	1 to 22, 24
MD149b	1 to 13, 17 to 22

MD150



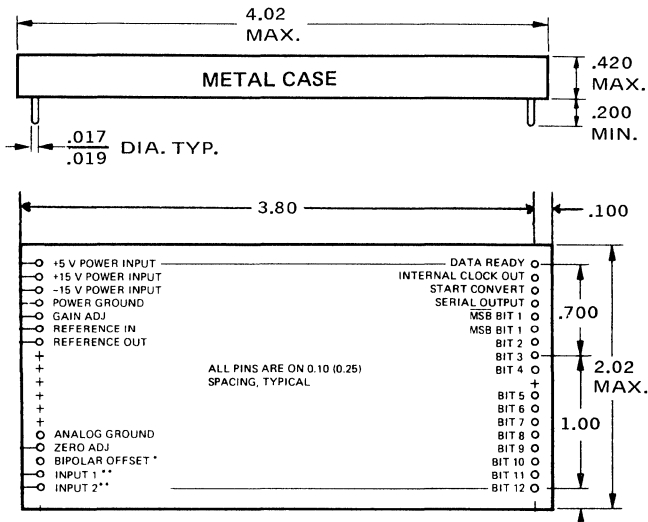
±0.01 Non-cumulative tolerance between pins
±0.02 Tolerance from case edge to center of pins

PINS USED	
MD150	K, 1-28
MD150a	1, 2, 4, 5, 8-10, 12-21, 24-28
MD150b	1, 2, 4, 5, 8-10, 12-21, 24
MD150c	1, 2, 4, 5, 8-10, 12-21, 24-26
MD150d	1, 2, 5, 8-10, 12-21, 24-28

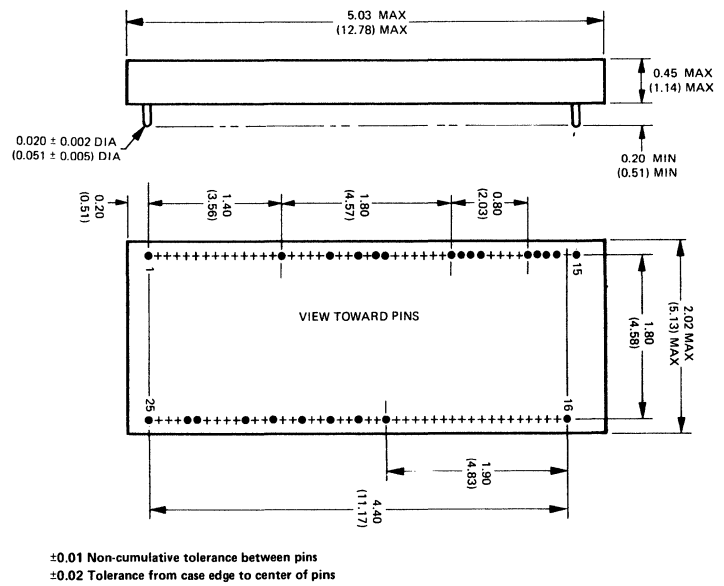
28. OUTLINE DRAWINGS

IN DRAWING NUMBER
SEQUENCE

MD151



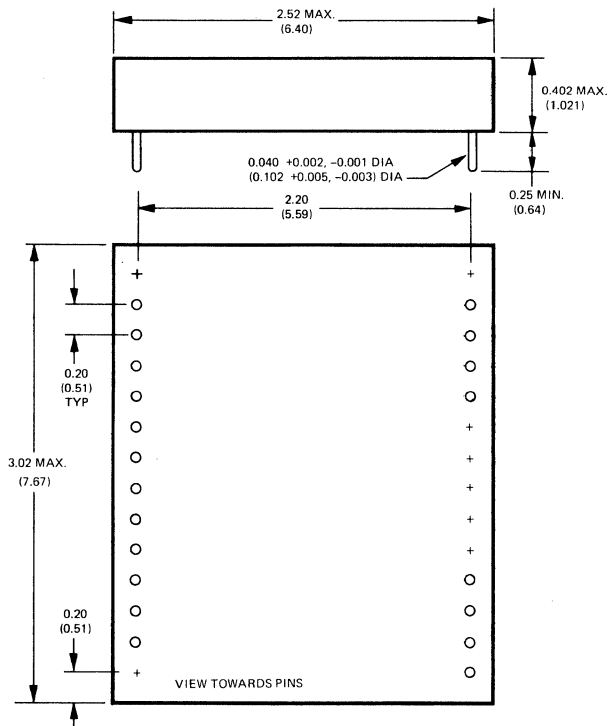
MD152



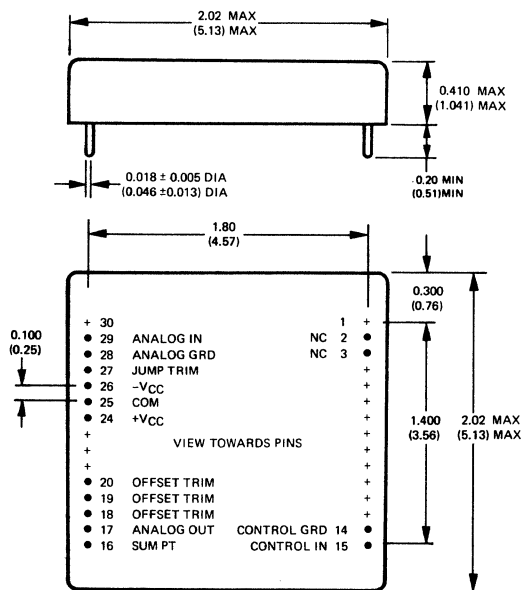
28. OUTLINE DRAWINGS

IN DRAWING NUMBER
SEQUENCE

MD153



MD154



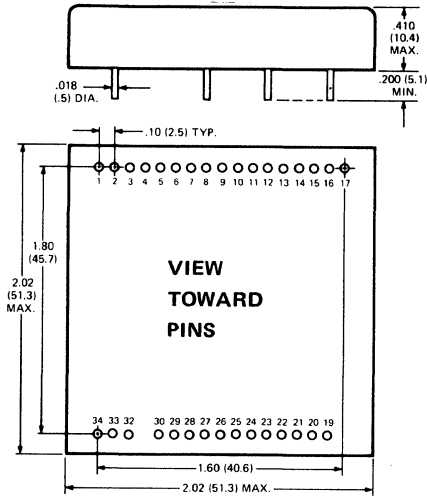
±0.01 Non-cumulative tolerance between pins
±0.02 Tolerance from case edge to center of pins

PINS USED	
MD154	2, 3, 14-20, 24-29
MD154a	2, 14-17, 23-27

28. OUTLINE DRAWINGS

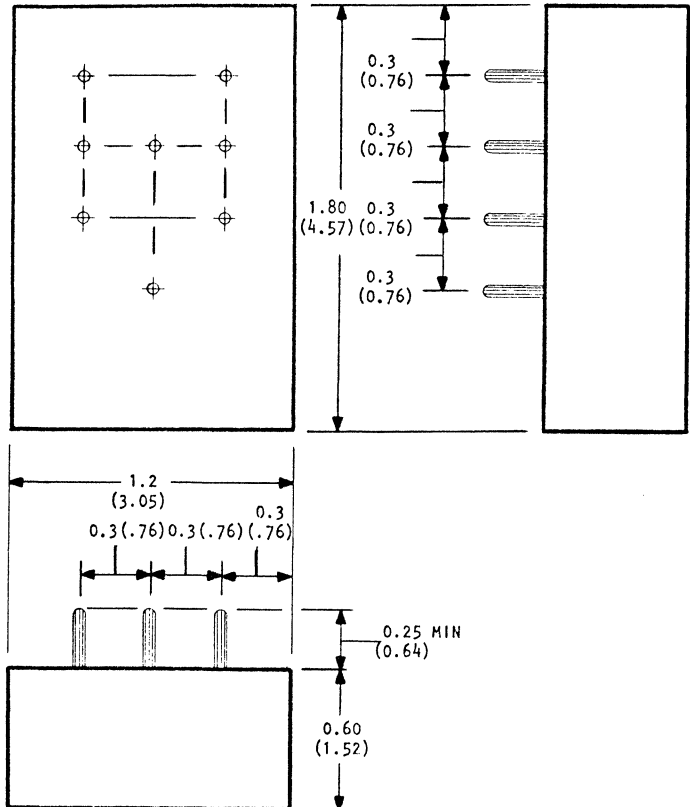
IN DRAWING NUMBER
SEQUENCE

MD155



- ± NON-CUMULATIVE TOLERANCE BETWEEN PINS
- ± TOLERANCE FROM CASE EDGE TO CENTER OF PINS

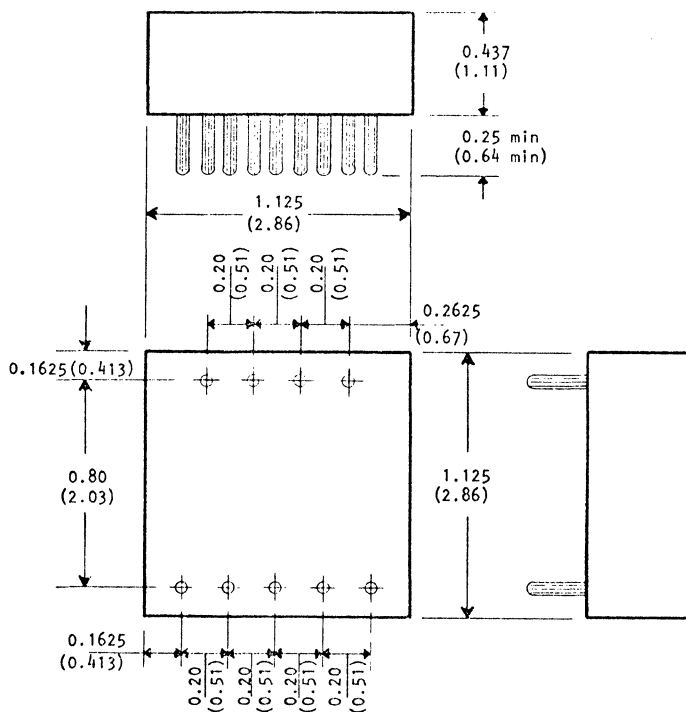
MD156



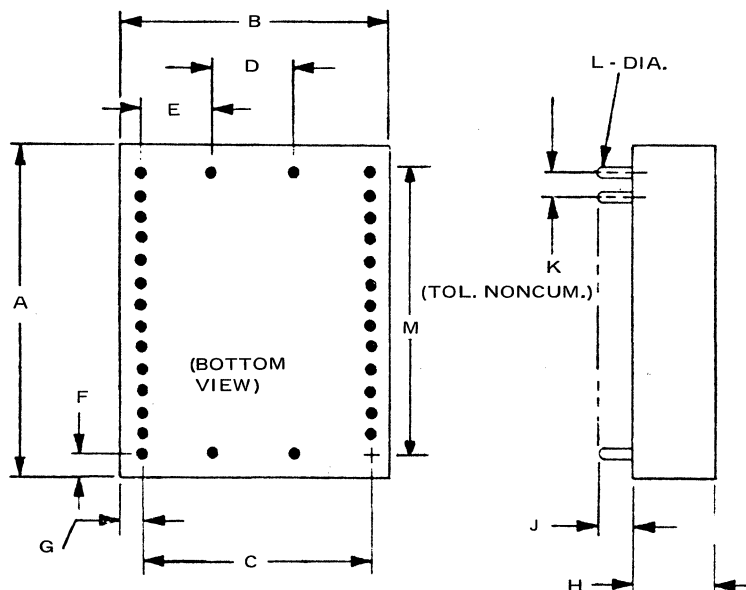
28. OUTLINE DRAWINGS

IN DRAWING NUMBER
SEQUENCE

MD157



MD160

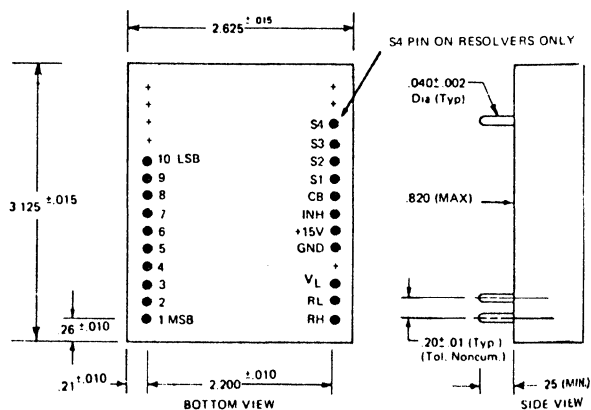


	A	B	C	D	E	F	G	H	J	K	L	M
MD160	3.115 3.135	2.615 2.635	2.195 2.205	.800	.700	.250 .270	.200 .220	.480 .420	.250 MIN	.190 .210	.038 .042	
MD160a	3.110 3.140	2.610 2.640	2.190 2.210	NA	NA	.210 .310	.160 .260	.420 .310	.250 MAX	.190 MIN	.040 .210	2.600
MD160b	2.285 2.315	2.285 2.315	1.995 2.005	NA	NA	.150	.150	.385 .415	.250 MIN	.199 .201	.038 .042	1.995 2.005
MD160c	3.125	2.625	1.795 1.805	NA	NA	.262	.412	.410	.250 MAX	.300 MIN	.040 TYP	2.595 2.605

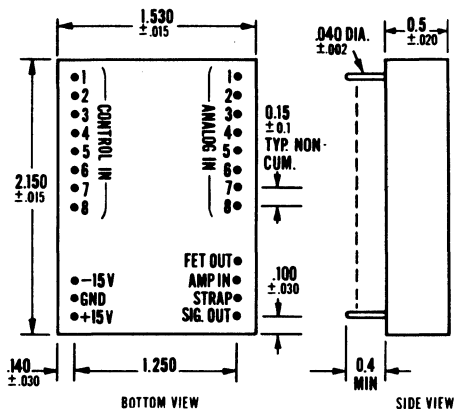
28. OUTLINE DRAWINGS

IN DRAWING NUMBER
SEQUENCE

MD163



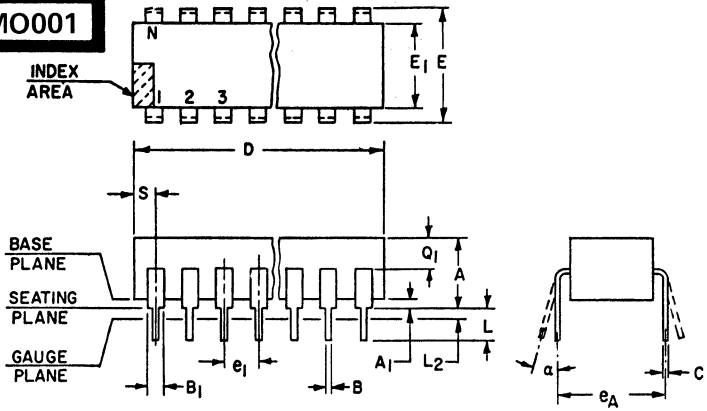
MD164



28. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

MO001



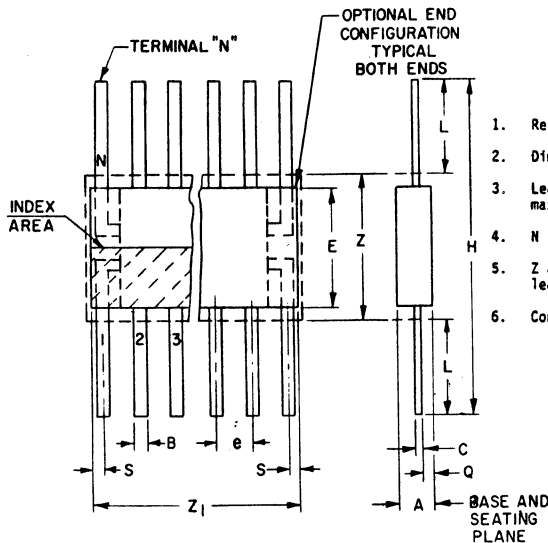
NOTES:

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	B	B1	C	D	E	E1	e1	eA	L	L2	a	N	N1	Q1	S	NOTES
MO001AA	.200	.020	.015	.030	.008	.660	.325	.220	.100	.300	.100	.000	0°	14	0			1,2,10
NOTES	MAX	MIN	.023	.070	.015	.785	MAX	8	3,4	3,4	.125	.030	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	MIN	.020	.065	.012	.770	.325	.260	T.P.	T.P.	.150	.030	15°	5	6	7	.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	MIN	.020	.065	.012	.785	.325	.260	T.P.	T.P.	.150	.030	15°	5	6	7	.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	MIN	.020	.065	.012	.770	.325	.260	T.P.	T.P.	.150	.030	15°	5	6	7	.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	MIN	.020	.065	.012	.785	.325	.260	T.P.	T.P.	.150	.030	15°	5	6	7	.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	MIN	.020	.070	.011	.795	.325	.300	T.P.	T.P.	.160	.030	15°	5	6	7	.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	MIN	.020	.070	.011	.795	.325	.300	T.P.	T.P.	.160	.030	15°	5	6	7	.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	MIN	.020	.070	.012	.770	.320	.260	T.P.	T.P.	.155	.030	15°	5	6	7	.085	.095
MO001AJ	.090	.020	.015	.035	.008	.685	.300	.240	.100	.300	.100	.000	0°	14	0	.060	.045	1,2,10
NOTES	MAX	MIN	.023	.055	.012	.760	.325	.285	T.P.	T.P.	.150	.030	15°	5	6	7	.090	.090
MO001AK	.090	.020	.015	.035	.008	.800	.300	.240	.100	.300	.100	.000	0°	16	0	.060	.040	1,2,10
NOTES	MAX	MIN	.023	.055	.012	.840	.325	.285	T.P.	T.P.	.150	.030	15°	5	6	7	.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	MIN	.020	.070	.012	.890	.350	.260	T.P.	T.P.	.150	.030	15°	5	6	7	.085	.095

MO004

	A	B	C	e	E	H	L	N	Q	S	Z	Z1	NOTES
MO004AA	.008	.015	.003	.050	.200	.600	.150	14	.005	.000	.300	.350	1,2,6
NOTES	MAX	MIN	.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	MAX	MIN	.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	MAX	MIN	.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	MAX	MIN	.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	MAX	MIN	.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	MAX	MIN	.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	MAX	MIN	.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	MAX	MIN	.006	TP	.300	1.000	.350	4	.050	.050	5	5	



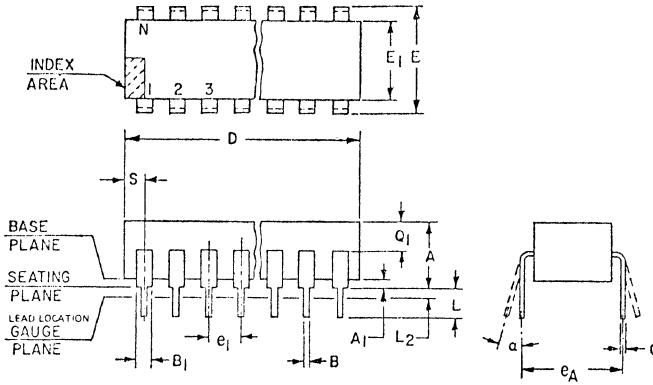
NOTES:

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 maximum material condition.
4. N is the maximum quantity of lead positions.
5. Z and Z1 determine a zone within which all body and lead irregularities lie.
6. Controlling dimensions: INCH.

28. OUTLINE DRAWINGS

IN DRAWING NUMBER
SEQUENCE

MO0015

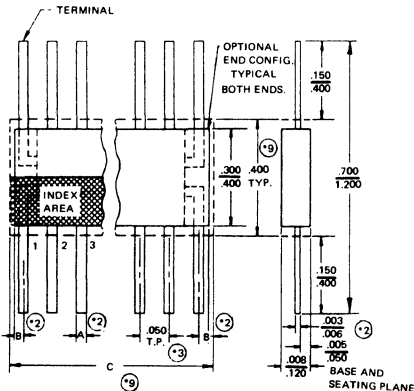


- NOTES:
1. Refer to applicable symbol list.
 2. Dimensioning and tolerancing per ANSI Y14.5-1973.
 3. Leads within .005 radius of True Position (TP) at gauge plane with maximum material condition and unit installed.
 4. e_1 and e_A applies in zone L_2 when unit installed.
 5. α applies to spread leads 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 ($\alpha = 0$) 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

SYMBOL	VARIATIONS (ALL DIMENSIONS IN INCHES)											
	AA		NOTE	AB		NOTE	AC		NOTE	AD		NOTE
	MIN.	MAX.		MIN.	MAX.		MIN.	MAX.		MIN.	MAX.	
A	.120	.250		.120	.250		.120	.250		.100	.200	9
A ₁	.020	.070		.020	.070		.020	.070		.000	.070	
B	.016	.020		.016	.020		.016	.020		.015	.020	
B ₁	.026	.070		.028	.070		.028	.070		.015	.055	
C	.008	.012		.008	.012		.008	.012		.008	.012	
D	1.200	1.290		1.700	1.840		1.800	1.890		1.170	1.210	
E	.600	.625	8	.600	.625	8	.600	.625	8	.600	.625	8
E ₁	.515	.580		.515	.580		.515	.580		.515	.580	
e ₁	.100 TP		3,4	.100 TP		3,4	.100 TP		3,4	.100 TP		3,4
e _A	.600 TP		3,4	.600 TP		3,4	.600 TP		3,4	.600 TP		3,4
L	.100	.200		.100	.200		.100	.200		.100	.200	
L ₂	.000	.030		.000	.030		.000	.030		.000	.030	
α	0°	15°	5,6	0°	15°	5,6	0°	15°	5,6	0°	15°	5,6
N	24			16			36			24		
N ₁	0			0			0			0		
Q ₁	.040	.075	7	.040	.075	7	.065	.105	7	.020	.080	7
S	.040	.100		.040	.100		.040	.100		.025	.050	
NOTE	1,2,10			1,2,10			1,2,10			1,2,10		

SYMBOL	VARIATIONS (ALL DIMENSIONS IN INCHES)											
	AE		NOTE	AF		NOTE	AG		NOTE	AH		NOTE
	MIN.	MAX.		MIN.	MAX.		MIN.	MAX.		MIN.	MAX.	
A	.100	.200	9	.100	.200	9	.090	.200		.090	.200	9
A ₁	.000	.070		.000	.070		.020	.070		.000	.070	
B	.015	.020		.015	.020		.014	.020		.015	.020	
B ₁	.015	.055		.015	.055		.050	.054		.015	.055	
C	.008	.012		.008	.012		.008	.012		.008	.012	
D	.770	.810		1.770	1.810		1.220	1.290		1.380	1.420	
E	.600	.625	8	.600	.625	8	.600	.625	8	.600	.625	8
E ₁	.515	.580		.515	.580		.520	.550		.485	.515	
e ₁	.100 TP		3,4	.100 TP		3,4	.100 TP		3,4	.100 TP		3,4
e _A	.600 TP		3,4	.600 TP		3,4	.600 TP		3,4	.600 TP		3,4
L	.100	.200		.100	.200		.125	.150		.100	.200	
L ₂	.000	.030		.000	.030		.000	.030		.000	.030	
α	0°	15°	5,6	0°	15°	5,6	0°	15°	5,6	0°	15°	5,6
N	16			36			24			28		
N ₁	0			0			0			0		
Q ₁	.020	.080	7	.020	.080	7	.020	.060	7	.020	.070	7
S	.025	.050		.025	.050		.050	.100		.040	.070	
NOTE	1,2,10			1,2,10			1,2,10			1,2,10		

MO0019



NOTES:

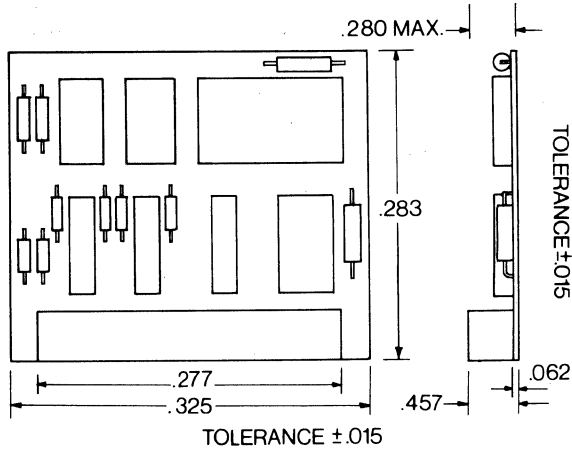
1. Refer to applicable symbol list.
2. Dimensioning and tolerancing per ANSI Y14.5-1973.
3. Leads within .005 radius of True Position (TP) at maximum material condition.
4. N is the maximum quantity of lead positions.
5. Z and Z_1 determine a zone within which all body and lead irregularities lie.
6. Controlling dimensions: INCH.

	A	H	C	e	E	H	L	N	Q	S	Z	Z ₁	NOTES
MO019AA	.008	.015	.003	.050	.300	.700	.150	24	.005	.000	.400	.650	1,2,6
NOTES	.120	.019	.006	TP	.400	1.200	.400	4	.050	.050			
MO019AB	.008	.018	.003	.050	.300	.700	.150	28	.005	.000	.400	.800	1,2,6
NOTES	.120	.022	.006	TP	.400	1.200	.400	4	.050	.075			

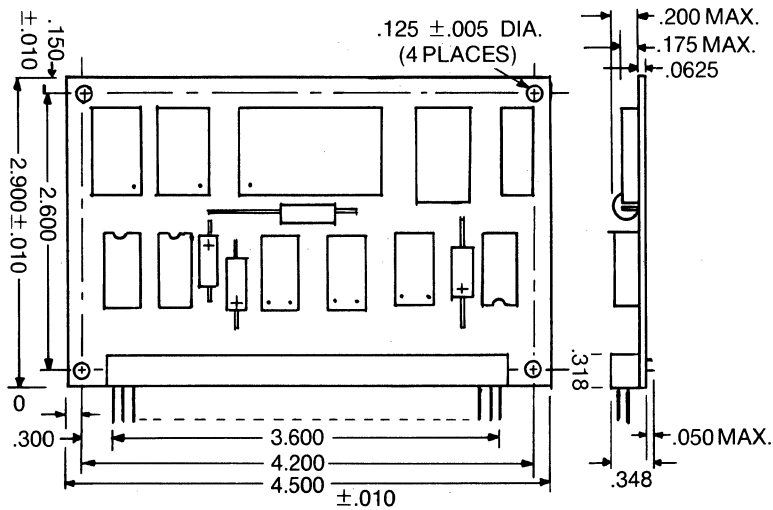
28. OUTLINE DRAWINGS

IN DRAWING NUMBER
SEQUENCE

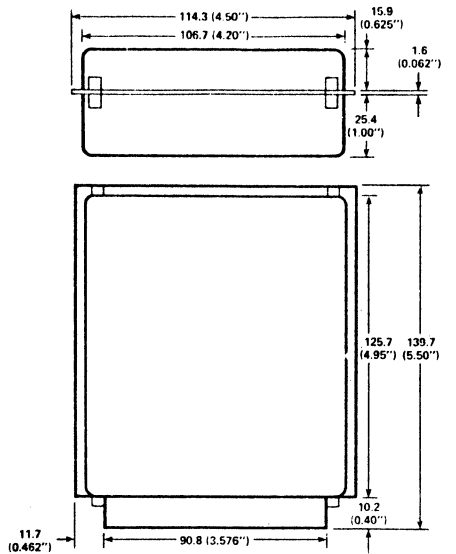
PC3



PC4



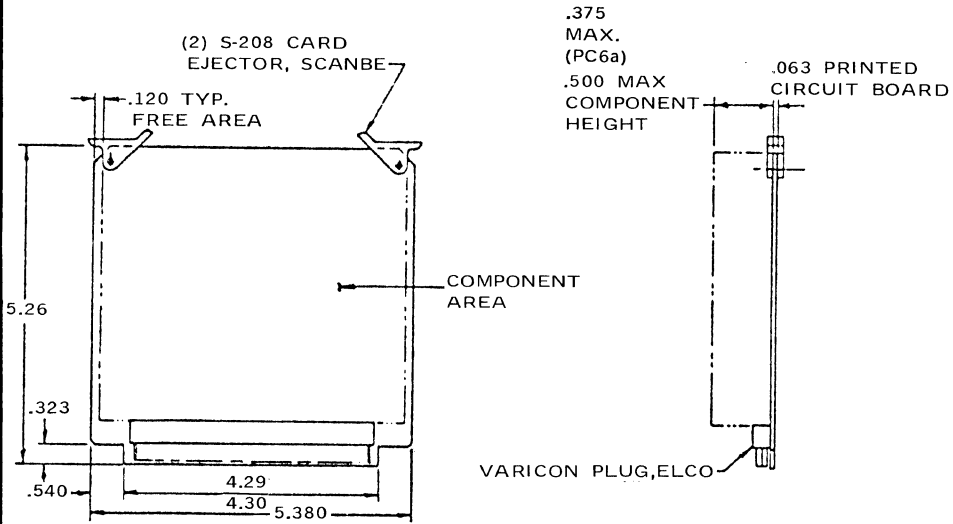
PC5



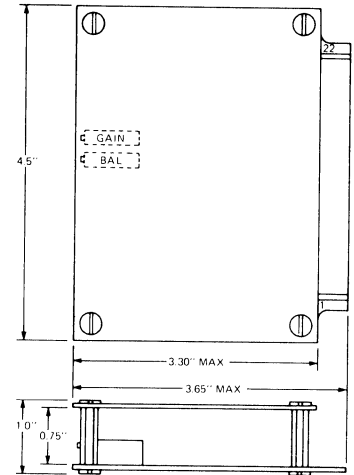
28. OUTLINE DRAWINGS

IN DRAWING NUMBER
SEQUENCE

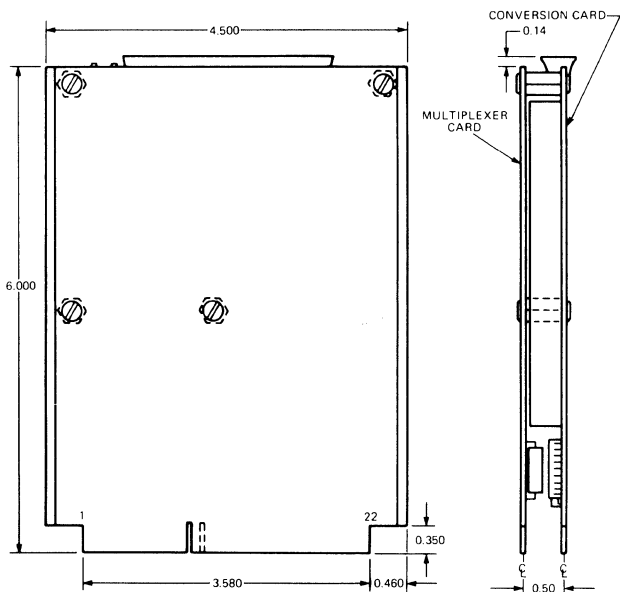
PC6



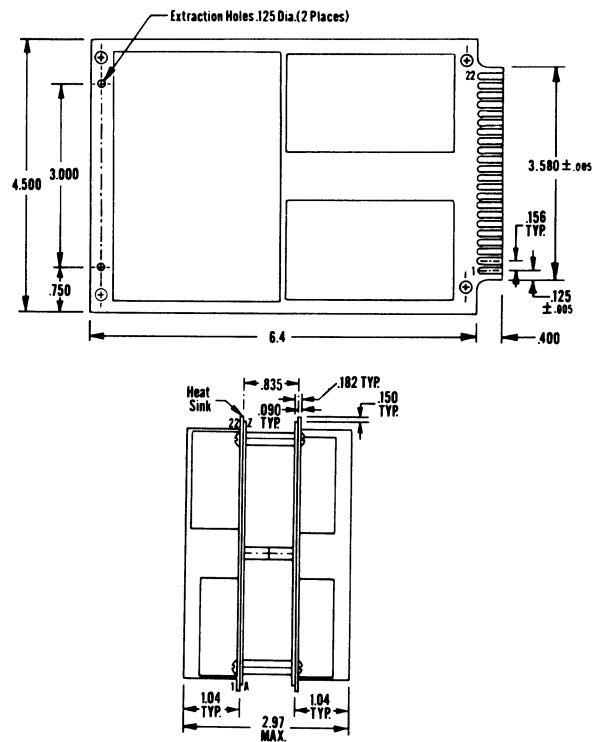
PC7



PC8



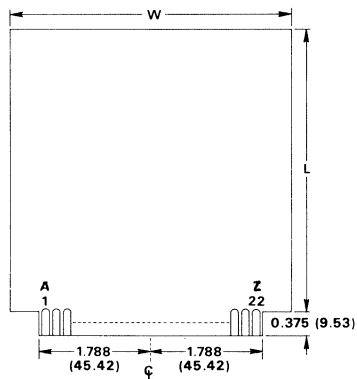
PC9



28. OUTLINE DRAWINGS

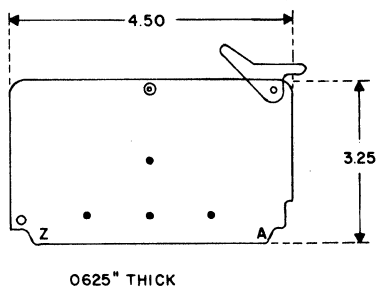
IN DRAWING NUMBER
SEQUENCE

PC10

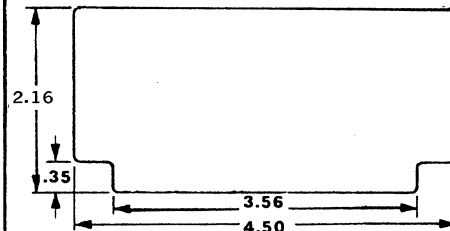


	W	L
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PC10a	4.50	6.00

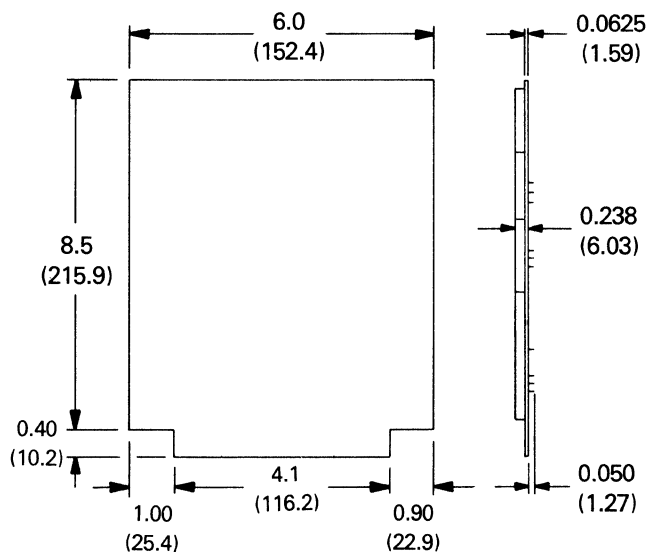
PC11



PC12



PC13



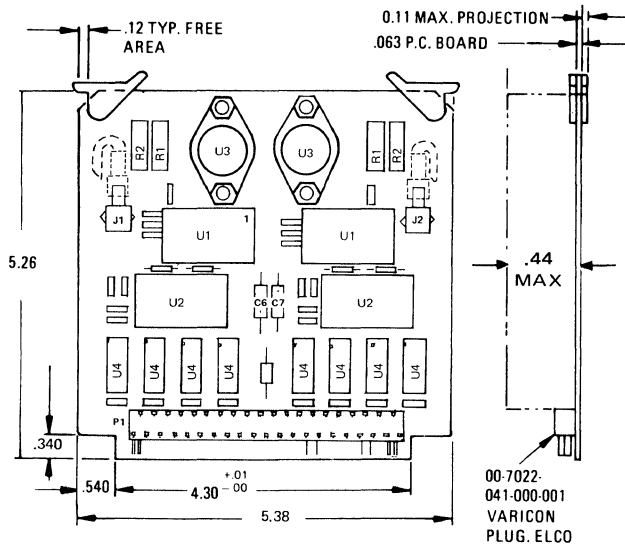
Dimensions shown in inches (and millimeters) are nominal.



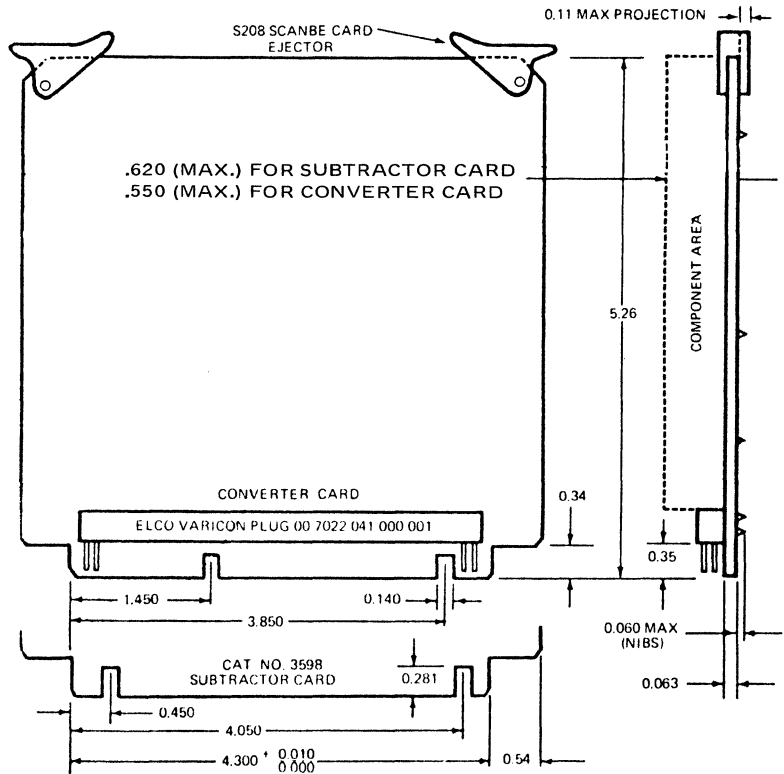
28. OUTLINE DRAWINGS

IN DRAWING NUMBER
SEQUENCE

PC14

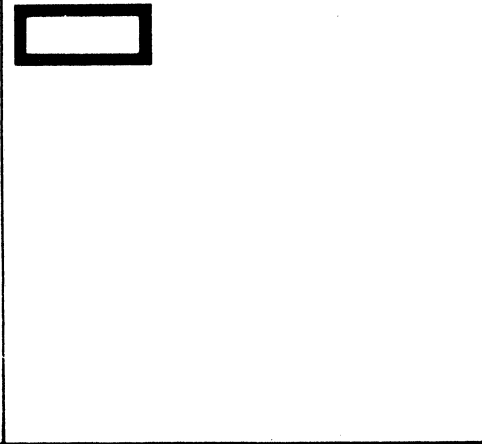
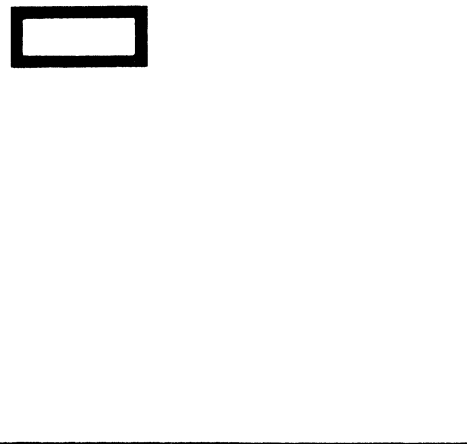
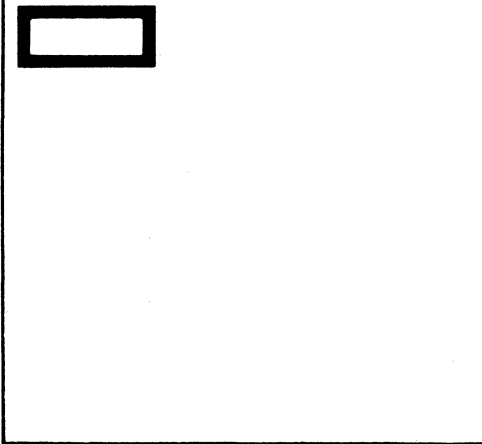
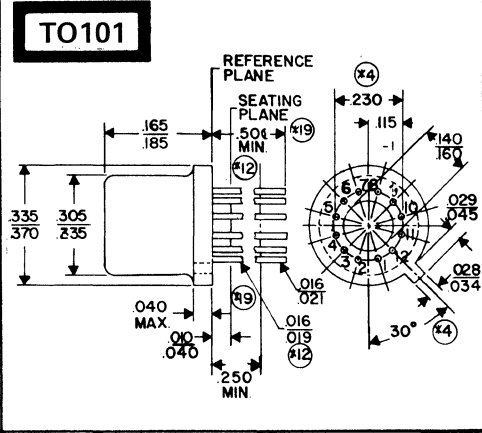
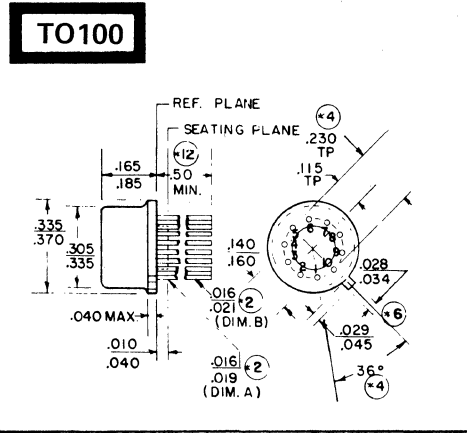
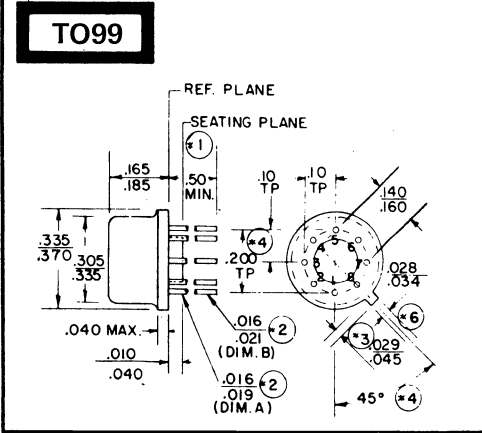
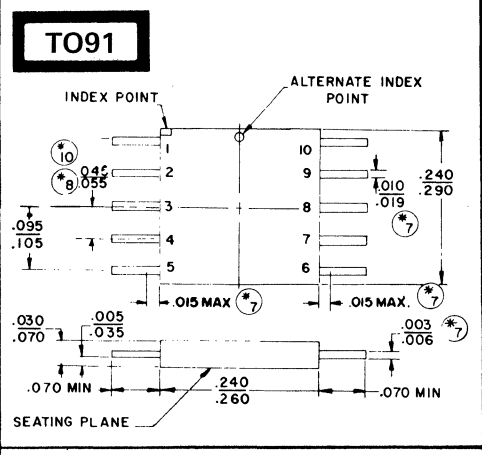
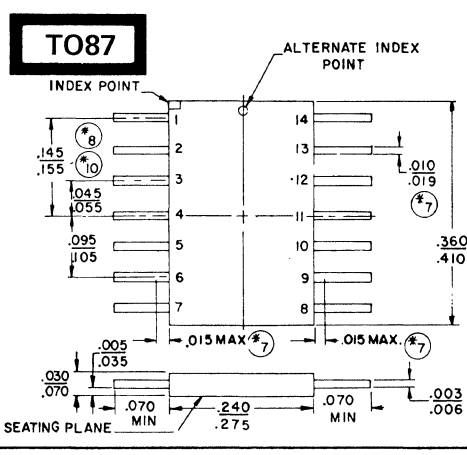
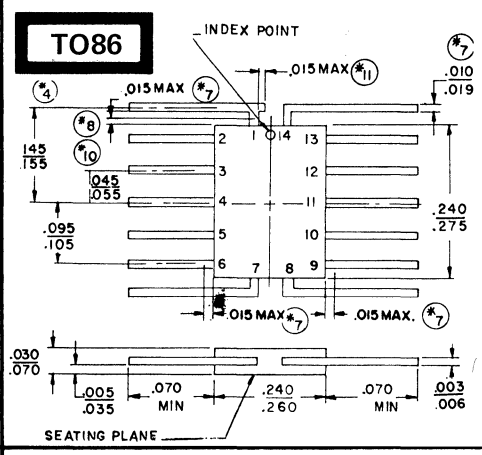
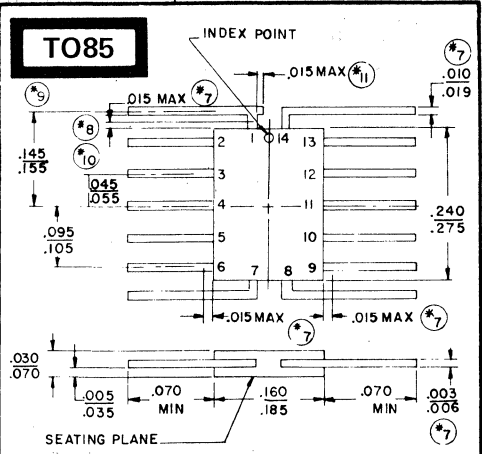
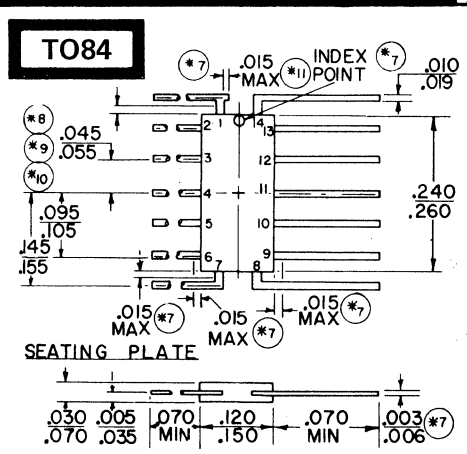
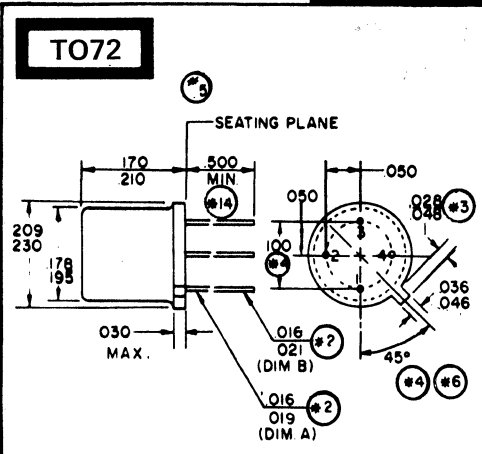


PC15



28. OUTLINE DRAWINGS

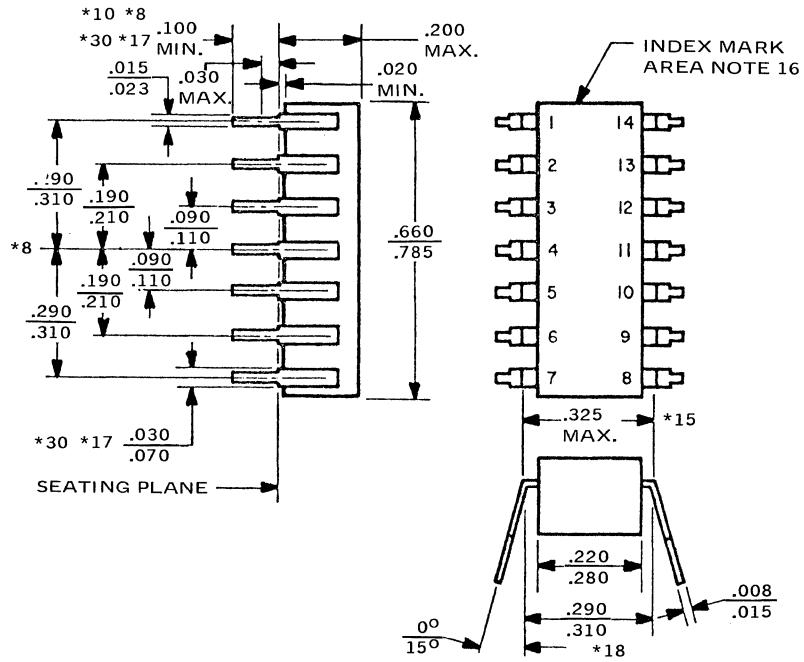
IN DRAWING NUMBER SEQUENCE



28. OUTLINE DRAWINGS

IN DRAWING NUMBER
SEQUENCE

TO116

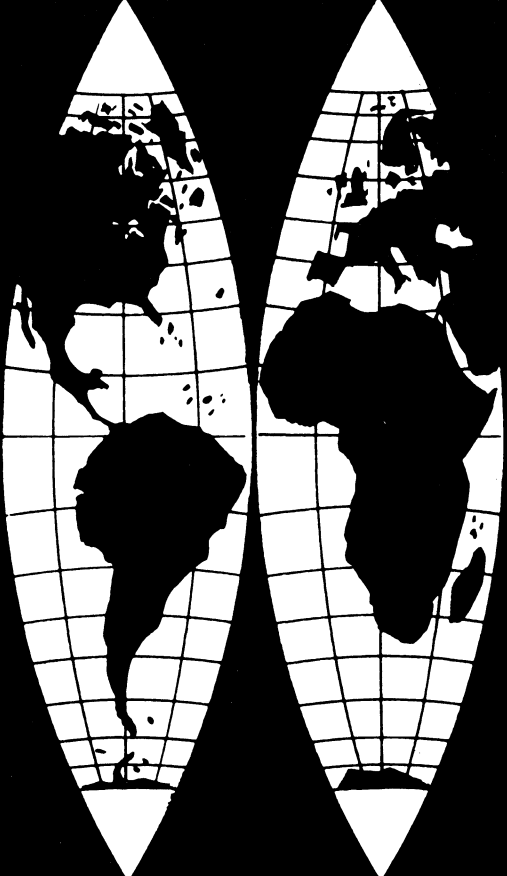


JEDEC "MO" DRAWING NOTES

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

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.



INTERFACE IC

Manufacturers' Local Offices

These manufacturers have listed their local offices in this section for your convenience. Please contact the local office nearest you for any additional information you may need.

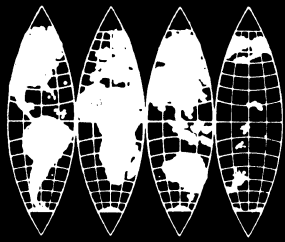
(MANUFACTURERS IN ORDER OF D.A.T.A. CODE LETTERS)

ALGG – AEG–TELEFUNKEN

	Zip Code	Telephone No.	Telex
Postfach 1109, Heilbronn, Germany	D7100	07131-9921	728746

DDC – ILC DATA DEVICE CORPORATION

	Zip Code	Telephone No.	TWX
105 Wilbur Place, Airport International Plaza, Bohemia, New York	11716	516-567-5600	510-228-7324



Manufacturers' Local Offices

DTL – DATEL SYSTEMS, INC.

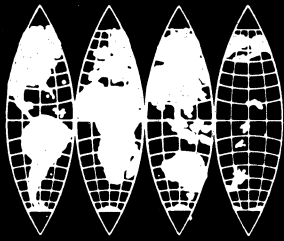
	Zip Code	Telephone No.	TWX
1020 Turnpike Street, Canton, Massachusetts	02021	617-828-8000	710-348-0135 Telex 924461

FERB – FERRANTI LIMITED

	Zip Code	Telephone No.	Telex
Gem Mill, Chadderton Oldham, Lancashire, England	OL9 8NP	061-624-0515	668038
GERMANY 8 Munich 22 Ferranti GmbH		089-293871	523980
			Widenmayerstrasse 5
U. S. A. New York Ferranti Electric, Inc.	11803	516-293-8383	510-224-6483
			East Bethpage Road Plainview

FSC – FAIRCHILD SEMICONDUCTOR

	Zip Code	Telephone No.	TWX
DIV. of FAIRCHILD CAMERA & INSTRUMENT CORP. 464 Ellis Street, Mountain View, California	94042	415-962-5011	910-379-6435 Cable FAIRSEMCO



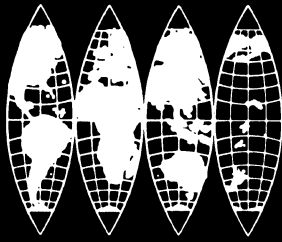
Manufacturers' Local Offices

NSC — NATIONAL SEMICONDUCTOR CORPORATION

2900 Semiconductor Drive, Santa Clara, California	Zip Code 95051	Telephone No. 408-737-5000	TWX 910-339-9240
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SALES OFFICES AND REPRESENTATIVES

ALABAMA	Huntsville	National Semiconductor	35801	205-881-0622	810-726-2207
		(Dixie Regional Office) 3322 Memorial Parkway, SW Suite 14			
		Interep Associates, Inc.	35801	205-881-3677	
		3322 Memorial Parkway, SW No. 67			
ARIZONA	Scottsdale	National Semiconductor	85251	602-945-8473	910-950-1195
		(Rocky Mountain Regional Office) 7353 Sixth Avenue			
		Fred Board Associates	85252	602-994-9388	910-950-1195
		Post Office Box 1906			
CALIFORNIA	Santa Clara	National Semiconductor	95051	408-247-6397	910-338-0537
		(Northwest Regional Office) 1333 Lawrence Expressway Suite 258			
		Criterion Sales, Inc.	95050	408-243-3600	
		2225J Martin Avenue			
	Irvine	National Semiconductor	92714	714-957-1626	
		(Area Office) 17870 Sky Park Circle No. 108			
	Sherman Oaks	National Semiconductor	91403	213-783-8272	910-495-1773
		(Los Angeles Regional Office) Valley Freeway Center Building 15300 Ventura Boulevard Suite 405			
	San Diego	National Semiconductor	92111	714-565-8411	910-335-1566
		(District Sales Office) 8333 Clairemont Mesa Blvd.			
		S. R. Electronics	92121	714-455-0300	910-335-1566
		10951 Sorrento Valley Road			
	Tustin	National Semiconductor.....	92680	714-832-8113	910-595-1523
		(Southern California Regional Office) 17452 Irvine Blvd. Suite B			

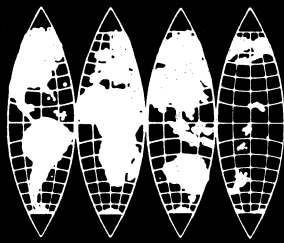


Manufacturers' Local Offices

NSC – NATIONAL SEMICONDUCTOR CORPORATION (Cont'd)

			Zip Code	Telephone No.	TWX
2900 Semiconductor Drive, Santa Clara, California			95051	408-737-5000	910-339-9240
COLORADO	Denver	Electrodyne, Inc. **	80222	303-757-7679	910-931-0428
		4600 East Asbury Circle Suite 402			
CONNECTICUT	Wilton	National Semiconductor	06897	203-762-0378	710-479-3512
		(Northeast Area Sales Office) Piersall Building - Suite 415 Wilton Center			
	Westport	NRG Limited	06880	203-226-7527	710-457-2169
		50 Post Road			
FLORIDA	Fort Lauderdale	National Semiconductor	33309	305-772-6970	510-955-9708
		(Regional Office) 1001 NW 62nd Street Suite 100			
	Maitland	QXI	32751	305-647-1188	810-853-0260
		235 Maitland Avenue Suite 111			
	St. Petersburg	QXI	33713	813-821-2281	810-863-0354
		300 31st Street No. 319			
	Tamarac	QXI	33319	305-485-6030	
		4620 West Commercial Blvd. Suite C			
GEORGIA	Atlanta	Interep Associates, Inc.	30341	404-394-7756	810-757-0182
		7 Dunwoody Park Suite 112			
ILLINOIS	Mt. Prospect	National Semiconductor	60056	312-394-8040	910-689-3346
		(West-Central Regional Office) 800 East Northwest Highway Suite 203			
	Arlington Heights ...	Delta Technical Sales	60004	312-253-9440	910-687-2273
		3323 North Ridge Avenue			

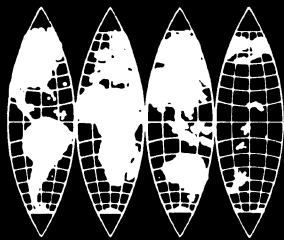
** Applications Engineer Available



Manufacturers' Local Offices

NSC – NATIONAL SEMICONDUCTOR CORPORATION (Cont'd)

			Zip Code	Telephone No.	TWX
2900 Semiconductor Drive, Santa Clara, California			95051	408-737-5000	910-339-9240
INDIANA	Indianapolis	National Semiconductor	46240	317-255-5822	810-341-3300
		(North-Central Regional Office) Post Office Box 40073			
		Advanced Component Sales	46226	317-545-6441	810-341-3233
		5746 Brendon Way West Drive Post Office Box 26407			
	Fort Wayne	Advanced Component Sales	46805	219-484-0722	810-332-1472
		1010 Memorial Way Suite 1			
IOWA	Cedar Rapids	Gassner & Clark Company	52402	319-393-5763	910-525-2051
		1834 Blairs Ferry Road NE			
MARYLAND	Glen Burnie	National Semiconductor	21061	301-760-5220	710-867-0508
		(Capitol Regional Office) 95 Aquahart Road Suite 204			
		TRIMARK, Inc.	21061	301-768-2800	710-867-0508
		95 Aquahart Road Suite 204			
MASSACHUSETTS	Lexington	National Semiconductor	02173	617-861-6090	710-326-6979
		(North-East Regional Office) 9 Meriam Street Suite 16			
		A/D Systems Sales, Inc.	02173	617-861-6370	
		594 Marrett Road			
MICHIGAN	Farmington Hills	National Semiconductor	48018	313-553-0600	810-242-2902
		(District Sales Office) 27650 Farmington Road			
	Grand Rapids	Representative of Electronic Products	49506	616-942-1320	
		3501 Lake Eastbrook SE			
	Southfield	Representative of Electronic Products	48075	313-559-1080	810-224-4976
		North Park Office Plaza 17117 West 9-Mile Road Suite 420			

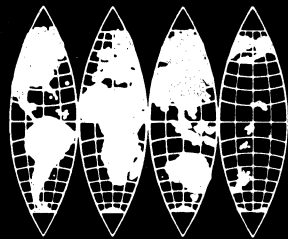


Manufacturers' Local Offices

NSC – NATIONAL SEMICONDUCTOR CORPORATION (Cont'd)

			Zip Code	Telephone No.	TWX
2900 Semiconductor Drive, Santa Clara, California			95051	408-737-5000	910-339-9240
MINNESOTA	Minneapolis	National Semiconductor	55431	612-888-3060	910-576-3415
		(Regional Office) 8200 Humboldt Avenue S.			
		Stan Clothier Company **	55435	612-944-3456	910-576-3415
		7423 Washington Avenue S.			
MISSOURI	Earth City	Cen Tech	63045	314-731-4220	910-762-0638
		514 Earth City Plaza			
	Raytown	Cen Tech	64111	816-358-8100	910-777-2007
		6310 Ash			
NEW JERSEY	Englewood Cliffs	National Semiconductor	07632	201-461-2789	710-991-9734
		(Mid-Atlantic Regional Office) 140 Sylvan Avenue			
	Fort Lee	New Jersey NECCO	07024	201-461-2789	Telex 134-526
		2460 Lemoine Avenue			
NEW MEXICO	Albuquerque	A. O. Electronics	87107	505-883-1003	TWX 910-989-1653
		Post Office Box 6505			
NEW YORK	Syracuse	National Semiconductor	13211	315-455-5868	
(Upstate)		(CAN-AM Regional Office) 104 Pickard Drive			
		Electra Sales Corporation	13211	315-455-5783	710-541-0418
		104 Pickard Drive			
	Poughkeepsie	National Semiconductor	12601	914-462-2380	510-248-0043
		(Regional Office) 576 South Road Room 128			
	Rochester	Electra Sales Corporation.....	14619	716-436-4030	
		474 Thurston Road		716-436-4037	
Metropolitan Area	Melville	LEJ Component Sales	11746	516-694-9090	
		401 Broad Hollow Road			
		National Semiconductor		516-921-2589	710-479-3512
		(Mid-Atlantic Regional Office)			

** Applications Engineer Available

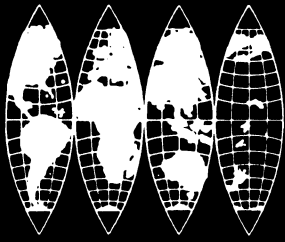


Manufacturers' Local Offices

NSC — NATIONAL SEMICONDUCTOR CORPORATION (Cont'd)

		Zip Code	Telephone No.	TWX
2900 Semiconductor Drive, Santa Clara, California.....		95051	408-737-5000	910-339-9240
NORTH CAROLINA... Highpoint	Engineering Devices Corporation	27262	919-869-7200	
	Post Office Box 5067			
OHIO	Highland Heights ... National Semiconductor	44143	216-461-0191	810-427-2972
	(East Central Regional Office)			
	19 Alpha Park			
	Micro-Tec, Inc.	44143	216-461-0191	810-427-2972
	19 Alpha Park			
	Columbus	43029	614-888-9761/2	
	Micro-Tec, Inc.			
	6076 Busch Blvd.			
	Suite 3			
	Dayton	45419	513-294-6441	810-459-1615
	Micro-Tec, Inc.			
	1413 Acorn Drive			
OREGON	Beaverton	97005	503-646-3466	
	Vantage Corporation			
	3950 SW 102nd Street			
	Suite 122			
PENNSYLVANIA	Fort Washington ... National Semiconductor	19034	215-628-8877	510-661-3986
	(Liberty Regional Office)			
	500 Office Center Drive			
	Huntington Valley ... Omega Electronic Sales, Inc.	19006	215-947-4135	510-665-5485
	1 Fairway Palza			
	Philmont Avenue			
	Red Lion Road			
	Suite 210			
TEXAS	Dallas	75243	214-690-4552	910-867-4741
	National Semiconductor			
	(South-Central Regional Office)			
	13773 North Central Expressway			
	Suite 1132			
	El Paso	79903	915-545-2363	
	A. Q. Electronics			
	2211 East Missouri Street			
	Suite N-218			
	Garland	75040	214-276-7151	910-860-5097
	Carter Associates, Inc.			
	Post Office Box 87			
	Houston	77027	713-621-6930	
	Carter Associates Inc. **			
	3701 West Alabama Street			
	Suite 360			

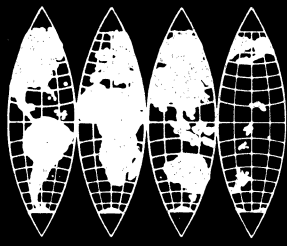
** Applications Engineer Available



Manufacturers' Local Offices

NSC – NATIONAL SEMICONDUCTOR CORPORATION (Cont'd)

			Zip Code	Telephone No.	TWX
2900 Semiconductor Drive, Santa Clara, California			95051	408-737-5000	910-339-9240
WASHINGTON	Bellevue	National Semiconductor	98005	206-454-4600	
		(District Sales Office)			
		300 120th NE Avenue			
		Building 7 - Suite 207			
		Vantage Corporation	98005	206-455-3460	
		300 120th NE Avenue			
		Building 7 - Suite 207			
CANADA	Bellevue	National Semiconductor	98005	206-455-3460	
(Western Provinces)	(Washington)	(District Sales Office)			
		300 120th NE Avenue			
		Building 2 - Suite 205			
		Vantage Corporation	98005	206-455-3460	
		300 120th NE Avenue			
		Building 2 - Suite 207			
(Eastern Provinces)	Downview	National Semiconductor	M3J 2N5	416-661-8022	
	(Ontario)	(District Sales Office)			
		286 Wildcat Road			
	Mississauga	Canadian Micro Sales, Inc.	L4T 1G3	416-677-6633	610-492-4012
	(Ontario)	2780 Slough Street			

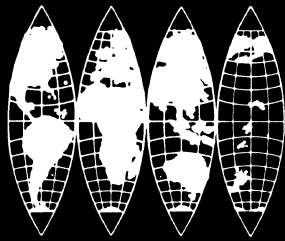


Manufacturers' Local Offices

PHIN – PHILIPS GLOEILAMPENFABRIEKEN

			Zip Code	Telephone No.	Cable
PRODUCT DIVISION ELCOMA					
Building BA, Eindhoven, Netherlands				(040) 79 11 11	PHILIPS EINDHOVEN
ARGENTINA	Buenos Aires	Fapesa I.y.C		652 3983	
		Av. Crovara 2550			
AUSTRALIA	Lane Cove	Philips Industries, Ltd.	2066	42 1261	
		Elcoma Division	N.S.W.		
		67 Mars Road			
AUSTRIA	Wien	Osterreichische Philips	A1101	62 91 11	
		Baelemente Industrie G.m.b.H.			
		Triesterstrasse 64			
BELGIUM	Bruxelles	M.B.L.E.	B-1070	523 00 00	
		80 Rue des Deux Gares			
BRAZIL	Sao Paulo, SP	Ibrape S.A.	01311	278-7144	
		Av. Paulista 2073-S/Loja			
CANADA	Scarborough	Philips Electronics Ltd.	M1B 1M8	416-292-5161	Telex 06-2221
	(Ontario)	Electron Devices Division			
		601 Milner Avenue			
DENMARK	København NV.....	Miniwatt A/S	DK-2400	(01) 69 16 22	
		Emdrupvej 115A			
FINLAND	Helsinki 10	Oy Philips Ab	SF-00100	1 72 71	
		Elcoma Division			
		Kaivokatu 8			
FRANCE	Paris 11	R. T. C. (RTCF)*	F-75540	355 44 99	
		La Radiotechnique Compelec			
		130 Avenue Ledru Rollin			
GERMANY	Hamburg 1	VALVO	D-2	(040)3296-1	
		UB Baelemente der Philips GmbH			
		Valvo Haus			
		Burchardstrasse 19			

* Manufacturer Code inside () can be found in Section 30, Manufacturers Codes, Names & Addresses

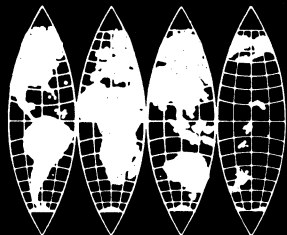


Manufacturers' Local Offices

PHIN – PHILIPS GLOEILAMPENFABRIEKEN (Cont'd)

			Zip Code	Telephone No.	Cable
PRODUCT DIVISION ELCOMA					
Building BA, Eindhoven, Netherlands				(040) 79 11 11	PHILIPS EINDHOVEN
HONG KONG	Kwai Chung N.T. (K.T.C.L.)	Philips Hong Kong Ltd. Components Dept. Philips Industrial Bldg. Kung Yip Street	289	12-24 51 21	
ITALY	Milano	Philips S.p.A. Sezione Elcoma Piazza IV Novembre 3	I-20124	6994	
JAPAN	Tokyo	Nihon Philips Corporation Shuwa Shinagawa Building 26-33 Takemawa, 3-chome Minato-ku	108	(435)5204-5	
KOREA	Seoul	Philips Electronics Korea Ltd. Philips House 260-199 Itaewon-dong Yongsan-ku		44-4202	
MEXICO	Mexico 6, D.F.	Electronica S. A. de C. V. Varsovia No. 36		5-33 11-80	
NETHERLANDS	Eindhoven	Philips Nederland B. V. Afd. Elonco Boschdijk 525	NL-4510	(040) 79 33 33	
NEW ZEALAND	Wellington	Philips Electronics Industries, Ltd. Elcoma Division 70-72 Kingsford Smith Street		873-156	
NORWAY	Oslo 4	Electronica A/S		(02) 150590	
		Vitaminveien 11			
SOUTH AFRICA	Johannesburg	EDAC (Pty.) Ltd. South Park Lane New Doornfontein	2001	24/6701	
SPAIN	Barcelona 7	Copresa S. A. Balmes 22		329 63 12	
SWEDEN	Stockholm 27	A. B. Elcoma	S-10250	08/679780	
		Lidingövågen 50			

* Manufacturer Code inside () can be found in Section 30,
Manufacturers Codes, Names & Addresses



Manufacturers' Local Offices

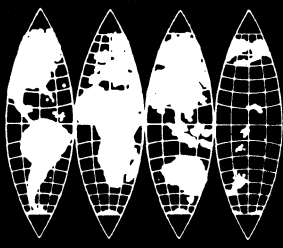
PHIN – PHILIPS GLOEILAMPENFABRIEKEN (Cont'd)

	Zip Code	Telephone No.	Cable
PRODUCT DIVISION ELCOMA Building BA, Eindhoven, Netherlands.....		(040) 79 11 11	PHILIPS EINDHOVEN
SWITZERLAND Zurich	Philips A. G. Elcoma Abteilung Edenstrasse 20	CH-8027 01/44 22 11	
TAIWANTaipei	Philips Taiwan Ltd. Elcoma Division San Min Bldg., 3rd Floor 57-1 Chung Shan N. Road	57 13231	
UNITED KINGDOM .. London	Mullard Ltd. (MULB)* Mullard House Torrington Place	WC1E 7HD 01-580-6633	
UNITED STATES California	Signetics Corporation (SIC)* 811 East Arques Avenue Sunnyvale	94086 408-739-7101	TWX 910-339-9220

* Manufacturer Code inside () can be found in Section 30,
Manufacturers Codes, Names & Addresses

PLSB – PLESSEY SEMICONDUCTORS

	Zip Code	Telephone No.	Telex
Cheney Manor, Swindon, Wiltshire, England	SN2 2QW	0793-36251	449637
<u>UNITED STATES</u>			
CALIFORNIA Irvine	Plessey Semiconductors	92714 714-540-9979	TWX 910-595-1930
	1641 Kaiser Avenue		



Manufacturers' Local Offices

RTCF — R.T.C. LA RADIOTECHNIQUE - COMPELEC

130, Avenue Ledru-Rollin, Paris Cedex 11, France	Zip Code 75.540	Telephone No. 355-44-99	Telex PHILAMP PARIS 28-746
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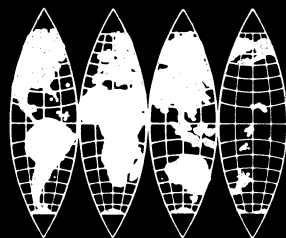
SGAI — SGS-ATES COMPONENTI ELETTRONICI S.P.A.

Via C. Olivetti 2, Agrate Brianza, Italy	Zip Code 20041	Telephone No. 039-650141	Telex 36131
ENGLAND Aylesbury Bucks	SGS-ATES (United Kingdom) Ltd.	5977	83245
	Walton Street		
FRANCE Paris	SGS-ATES France SA	75643	584 2730
	Cedex 13 Residence "Le Palatino" 17, Avenue de Choisy		0/25938
GERMANY Wasserburg (Inn)	SGS-ATES Deutschland GmbH	809	08071/721
	Postfach 1269		05-25143
ITALY Milano	SGS-ATES Componenti Elettronici S.p.A..	20149	4695651
	Via Tempesta 2		31481
SINGAPORESingapore	SGS-ATES Singapore (PTE) Ltd.	12	531411
	Lorong 4 and 6 Toa Payoh		21412
SWEDENMarsta	SGS-ATES Scandinavia AB	19501	0760/40120
	Tingvallavägen 9J Box 30		10932
U. S. A. Massachusetts	SGS-ATES Semiconductor Corporation	02154	617-891-3710
	79 Massasoit Street Waltham		923495

SPR — SPRAGUE ELECTRIC COMPANY

SEMICONDUCTOR DIVISION	Zip Code	Telephone No.
115 Northeast Cutoff, Worcester, Massachusetts	01606	617-853-5000

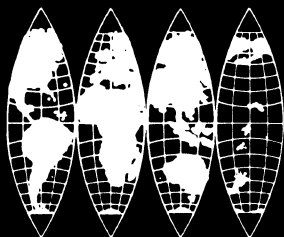
SEE OUR AD OUTSIDE BACK COVER



Manufacturers' Local Offices

THCF — THOMSON-CSF

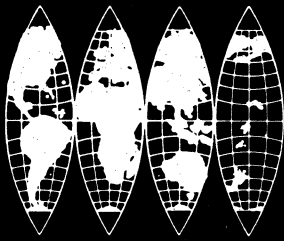
			Zip Code	Telephone No.	Telex
DIVISION SEMICONDUCTEURS SESCOSEM					
50, Rue Jean Pierre Timbaud, BP 120, Courbevoie, France					
			F-92403	788-50-01	SESCO 610560 F
AFRICA (South)	Dunswart	Allied Electric (Pty.) Ltd.	1508	52-8232/3	8-7823 Cable "SOLIDSTATE" DUNSWART
		Post Office Box 6090			
AUSTRALIA	Kingsgrove	I. R. H. Components	2208	50111	21123
	(N.S.W.)	Box 70 PO Kingsgrove			
AUSTRIA	Wien	Transalpina Electronica Ltd.	A-1010	56.15.71	Inland 12 717
		Elisabethstrasse 8			
BELGIUM	Bruxelles 5	Thomson S. A. -N. V.	B-1050	648.64.85	23 113
THE NETHERLANDS		Avenue Louise 363 - Bte 10			
BRAZIL	Sao Paulo.....	Thomson CSF Componentes do Brasil		616.483	TESAFIBRA EMBRATEL SP 309171 SAO PAULO
		Caixa Postal 4854			
CANADA	Toronto	Canadian General Electric Company Ltd. ...		416-537-4481	TWX 610-491-4940
	(Ontario)	189 Dufferin Street			
DENMARK	Copenhagen	Scan Supply	DK-2200	Aegir 5090	9037 SCAPLY
		20 Nannasgade			
ENGLAND	Basingstoke.....	Thomson-CSF (U.K.) Ltd.		256 29 155	858 865
		Ringway House - Bell Road Danneshill — Basingstoke Hants			
FINLAND	Helsinki 25	OY Sufra AB		49.01.37	Pierrejoly Helsinki
		Ruusulankatu 20A 12			



Manufacturers' Local Offices

THCF – THOMSON-CSF (Cont'd)

			Zip Code	Telephone No.	Telex
DIVISION SEMICONDUCTEURS SESCOSEM					
50, Rue Jean Pierre Timbaud, BP 120, Courbevoie, France			F-92403	788-50-01	SESCO 610560 F
FRANCE	Aix en Provence	Sescosem	F-13102	(91) 27 98 15	410665
		Service Commercial 15, rue Camille Pelletan			
	Saint Egreve	Sescosem	F-38120	(76) 758112	204780
		Service Commercial			
GERMANY	Munchen 25	Thomson-CSF GmbH	D-8000	89 76 751	522.916
		Fallstrasse 42			
ITALY	Milano	SESCOSEM Italiana	I-20125	68 84 141	36301 Ducati
		Via Melchiorre Gioia, 72			
MOROCCO	Casablanca	SFRM		27 91 00 27 91 23	21924
		40 Blvd. de la Resistance Palais Mirabeau			
NORWAY	Oslo 6	Feiring AS		(2) 686360	16 435
		Post Office Box 101 Bryn			
PORTUGAL.....	Lisbon	Sd. Com Rualdo		P.P.C. 33725	16 447 Rualdo Lisbonne
		Rua S. Jose 15			
SPAIN	San Juan Despi	Componentes Electronicos S.A.....		319.46.50	53077
	(Barcelona)	Poligono Industrial, FontSanta Calle, H.S./N			
SWEDEN	Solna 3	Elektrholm AB	S-17103	82.02.80	19.389
		Dalvagen 12			
SWITZERLAND	Berne 9	Modulator S. A.	CH-3000	23 21 42	32.431
		Fischerweg 11.13			
U. S. A.	California	Nucleonic Products Company, Inc.	91303	(213) 887-1010	651.479
		6660 Variel Avenue Canoga Park			



Manufacturers' Local Offices

TSC — TELEDYNE SEMICONDUCTOR

	Zip Code	Telephone No.	TWX
1300 Terra Bella Avenue, Mountain View, California	94043	415-968-9241	910-379-6494
CALIFORNIA..... Los Angeles..... Teledyne Semiconductor	90064	213-826-6639	910-342-6495
12333 West Olympic Blvd.			
ILLINOIS Des Plaines	60016	312-299-6196	910-233-0897
Teledyne Semiconductor			
2434 Dempster Street			
Suite 106			
NEW HAMPSHIRE Salem Teledyne Semiconductor	03079	603-893-9551	710-366-1110
25 Main Street			
NEW YORK Stony Brook..... Teledyne Semiconductor	11790	516-751-5640	510-228-7766
207 Hallock Road			
Suite 2			

30. MANUFACTURERS CODES, NAMES & ADDRESSES

QPL
MFR.
DESIG.

FSCM
No.

DATA
MFRS.
CODE

(Manufacturers in order of D.A.T.A. code letters)

- ALGG* — AEG-Telefunken, D-71 Heilbronn, Postfach 1109, West Germany
- AMI *★ American Microsystems Inc., 3800 Homestead Rd., Santa Clara, CA 95051
- AMV * — Advanced Micro Devices, Inc., 901 Thompson Pl., Sunnyvale, CA 94086
- ANA * — Analog Devices Inc., P.O. Box 280, Norwood, MA 02062
- 25403 — APX * — Amperex Electronic Corp., Solid State & Active Devices Div., Providence Pike, Slatersville, RI 02876
- BEC * — Beckman Instruments, Inc., Helipot Div., 2500 Harbor Blvd., Fullerton, CA 92634
- BOW *★ Bowmar Inc., 4900 E. Indian School Rd., Phoenix, AZ 85018
- BUB * — Burr-Brown Research Corp., P.O. Box 11400, 6730 So. Tucson Blvd., Tucson, AZ 85734
- BUR *★ Burroughs Corp., Electronic Components Div., P.O. Box 1226, Plainfield, NJ 07061
- CER — Cermetek, Inc., 660 National Ave., Mountain View, CA 94043
- 19645 — DDC * — ILC Data Device Corp., 105 Wilbur Pl., Airport International Plaza, Bohemia, NY 11716
- DIS — Discon Industries, Inc., 61 SW 5th Ct., Pompano Beach, FL 33060
- DMC *★ Dynamic Measurements Corp., 6 Lowell Ave., Winchester, MA 01890
- DTC ★ Data Tech, A Div. of Penril Corp., 2700 So. Fairview Rd., Santa Ana, CA 92704
- DTL * — Datel Systems, Inc., 1020 Turnpike St., Canton, MA 02021
- ECD ★ Energy Conversion Devices Inc., 1675 W. Maple Rd., Troy, MI 48084
- EXR ★ Exar Integrated Systems, Inc., 750 Palomar Ave., P.O. Box 62229, Sunnyvale, CA 94086
- FCAJ *★ Fujitsu Ltd., 1015 Kamikodanaka, Nakahara-ku, Kawasaki, Japan
- 12264 — FERB * — Ferranti, Ltd., Electronics Dept., Gem Mill, Chadderton, Oldham, Lancs., England
- FMI — See ITI.
- CFJ — 07263 — FSC * — Fairchild Semiconductor, MS 20-1066, 464 Ellis St., Mountain View, CA 94040
- CAKK — 14936 — GIC * — General Instrument Corp., 600 W. John St., Hicksville, NY 11802
- 91417 — HAS * — Harris Semiconductor, P.O. Box 883, Melbourne, FL 32901
- 33256 — HBC * — Hybrid Systems Corp., Crosby Dr., Bedford Research Park, Bedford, MA 01730
- HITJ *★ Hitachi Ltd., 6-2, Otemachi 2-chome, Chiyoda-ku, Tokyo 100, Japan
- ICC ★ Information Control Corp., Abacus Div., 9610 Bellanca Ave., Los Angeles, CA 90045
- INL * — Intersil Inc., 10900 North Tantau Ave., Cupertino, CA 95014
- INTG — Intermetall, Halbleiterwerk der, Deutsche ITT Industries GmbH, Postfach 840, Hans-Bunte-Strasse 19, D-7800 Freiburg, Germany
- ITI — Intech/FMI Inc., 282 Brokaw Rd., Santa Clara, CA 95050
- ITL * — Intel Corp., 3065 Bowers Ave., Santa Clara, CA 95051
- CIT — 15238 — ITT * — ITT Semiconductors, 74 Commerce Way, Woburn, MA 01801
- ITTB — ITT Semiconductors, Maidstone Rd., Foots Cray, Sidcup, Kent, England
- MCC ★ Micro Components Corp., 99 Bald Hill Rd., Cranston, RI 02920
- MITJ — Mitsubishi Electric Corp., Kita-Itami Works, 4-1 Mizuhara, Itami-shi, Hyogo-ken, Post Code 664, Japan
- 50507 — MNC * — Micro Networks Corp., 324 Clark St., Worcester, MA 01606
- CGG — 04713 — MOTA * — Motorola Semiconductor Products Inc., 5005 E. McDowell Rd., Phoenix, AZ 85008

★ NEW MANUFACTURERS

* See Section 31 for
Manufacturers Logos

Manufacturers shown in bold print have local offices,
which are included in Section 29 of this D.A.T.A. BOOK

30. MANUFACTURERS CODES, NAMES & ADDRESSES



(Manufacturers in order of D.A.T.A. code letters)

- MULB * - Mullard Ltd., New Road, Mitcham, Surrey, England CR4 4XY
- NECJ * - Nippon Electric Co., Ltd., Electron Dev. Sales Div., 1753 Shimonumabe Nakahara-ku, Kawasaki City, Japan
- NIT *★ Nitron, A Div. of McDonnell Douglas, Corp., 10420 Bubb Rd., Cupertino, CA 95014
- NPC * - Nucleonic Products Co., Inc., 6660 Variel Ave., Canoga Park, CA 91303
- CCXP - 12040 - **NSC** * - **National Semiconductor, Microcircuits Div., 2900 Semiconductor Dr., Santa Clara, CA 95051**
- 26287 - OEI * - Optical Electronics, Inc., P.O. Box 11140, Tucson, AZ 85734
- PHIN** - **N. V. Philips Gloeilampenfabrieken, Elcoma Bldg., BA, Eindhoven, Netherlands**
- PLSB** * - **Plessey Semiconductor, Cheney Manor, Swindon, Wiltshire, England**
- 06665 - PMI * - Precision Monolithics, Inc., 1500 Space Park Dr., Santa Clara, CA 95050
- RAG ★ Ragen Semiconductor, Inc., 53 So Jefferson Rd., Whippany, NJ 07981
- CRC - 86684 - RCA * - RCA Corporation, Solid State Div., Route 202, Somerville, NJ 08876
- 12556 - **RTCF** - **R.T.C. La Radiotechnique-Compelec, 130, Ave. Ledru-Rollin, 85540, Paris Cedex 11, France**
- CRP - 21688 - RTN * - Raytheon Company, 350 Ellis St., Mountain View, CA 94040
- SGAI** * - **SGS-ATES Componenti Elettronici, S.p.A., Via C. Olivetti 2, 20041 Agrate Brianza, Milan, Italy**
- SGL ★ Silicon General Inc., 7382 Bolsa Ave., Westminster, CA 92683
- 18324 - SIC - Signetics Corp., 811 East Arques Ave., Sunnyvale, CA 94086
- SIEG * - Siemens Aktiengesellschaft, Semiconductor Div., Balanstrasse 73, D8000 Munich 8, Germany
- CDBN - 17856 - SIX * - Siliconix, Inc., 2201 Laurelwood Rd., Santa Clara, CA 95054
- SOD *★ Solitron Devices Inc., 8808 Balboa Ave., San Diego, CA 92123
- CSF - 56289 - **SPR** * - **Sprague Electric Co., 87 Marshall St., North Adams, MA 01247**
- SSS * - Solid State Scientific, Inc., Montgomeryville, PA 18936
- SWM ★ Stewart-Warner Microcircuits Inc., 730 E. Evelyn Ave., Sunnyvale, CA 94086
- CCZX - 12498 - TCY * - Teledyne Crystalonics, 147 Sherman St., Cambridge, MA 02140
- TEC ★ Transitron Electronic Corp., 168-182 Albion St., Wakefield, MA 01880
- THCF** - **Thomson-CSF, Div. Semiconducteurs SESCOSEM, 50, rue Jean Pierre Timbaud, BP120, 92401 Courbevoie, France**
- CGO - 01295 - TII * - Texas Instruments Inc., MS72, P.O. Box 5012, Dallas, TX 75222
- TIIB - Texas Instruments Ltd., Manton Lane, Bedford, England
- TPN ★ Teledyne Philbrick, Allied Drive at Route 128, Dedham, MA 02026
- TRW ★ TRW Monolithic IC's, 301 W. "O" St., Ogallala, NB 69153
- 85818 - **TSC** - **Teledyne Semiconductor, 1300 Terra Bella Ave., Mountain View, CA 94043**
- VALG ★ Valvo GMBH, P.O. Box 993, D2000, Hamburg 1, Germany
- WDC * - Western Digital Corporation, 3128 Red Hill Ave., Box 2180, Newport Beach, CA 92663
- WLD *★ Wyle Computer Products, 3200 Magruder Blvd., Hampton, VA 23666
- ZEL ★ Zeltex Inc., 940 Detroit Ave., Concord, CA 94518

★ NEW MANUFACTURERS

* See Section 31 for
Manufacturers Logos

Manufacturers shown in bold print have local offices,
which are included in Section 29 of this D.A.T.A. BOOK

31. MANUFACTURERS LOGOS

IN MFR.
CODE ORDER



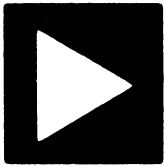
ALGG – AEG-Telefunken



AMI – American Micro-Systems Inc.



AMV – Advanced Micro Devices Inc.



ANA – Analog Devices Inc.



APX – Amperex Electronic Corp.



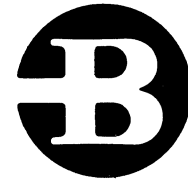
BEC – Beckman Instruments Inc.



BOW – Bowmar Inc.



BUB – Burr-Brown Research Corp.



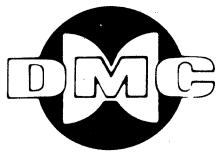
BUR – Burroughs Corp.



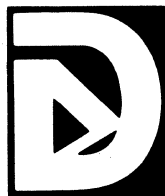
DDC – ILC Data Devices Corp.

31. MANUFACTURERS LOGOS

IN MFR.
CODE ORDER



DMC – Dynamic Measurements Corp.



DTL – Datel Systems Inc.



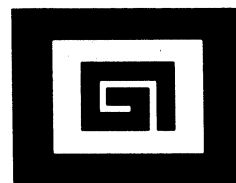
FCAJ – Fujitsu Ltd.



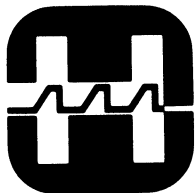
FERB – Ferranti Ltd.



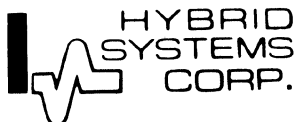
FSC – Fairchild Semiconductor



GIC – General Instrument Corp.



HAS – Harris Semiconductor



HBC – Hybrid Systems Corp.



HITJ – Hitachi Ltd.



INL – Intersil Inc.

31. MANUFACTURERS LOGOS

IN MFR.
CODE ORDER



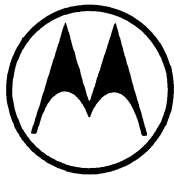
ITL – Intel Corp.



ITT – ITT Semiconductors



MNC – Micro Networks Corp.



MOTA – Motorola Semiconductor Products Inc.



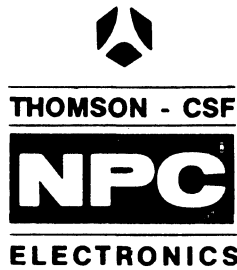
MULB – Mullard Ltd.



NECJ – Nippon Electric Co.



NIT – Nitron A Division
McDonnell Douglas Corp.



NPC – Nucleonic Products Inc.



NSC – National Semiconductor



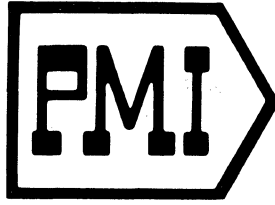
OEI – Optical Electronics Inc.

31. MANUFACTURERS LOGOS

IN MFR.
CODE ORDER



PLSB – Plessey Semiconductor



PMI – Precision Monolithics Inc.



RCA – RCA Corp.



RTN – Raytheon Co.



SGAI – SGS-ATES
Componenti Elettronici



SIEG – Siemens Aktiengesellschaft



SIX – Siliconix Inc.



SOD – Solitron Devices Inc.



SPR – Sprague Electric Co.

31. MANUFACTURERS LOGOS

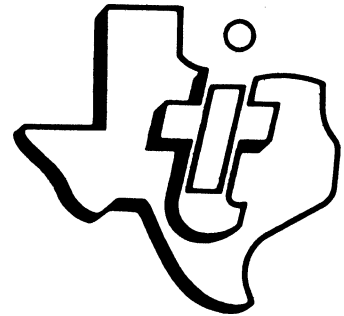
IN MFR.
CODE ORDER



SSS – Solid State Scientific Corp.



TCY – Teledyne Crystalonics Inc.



TII – Texas Instruments Inc.



WDC – Western Digital Corp.



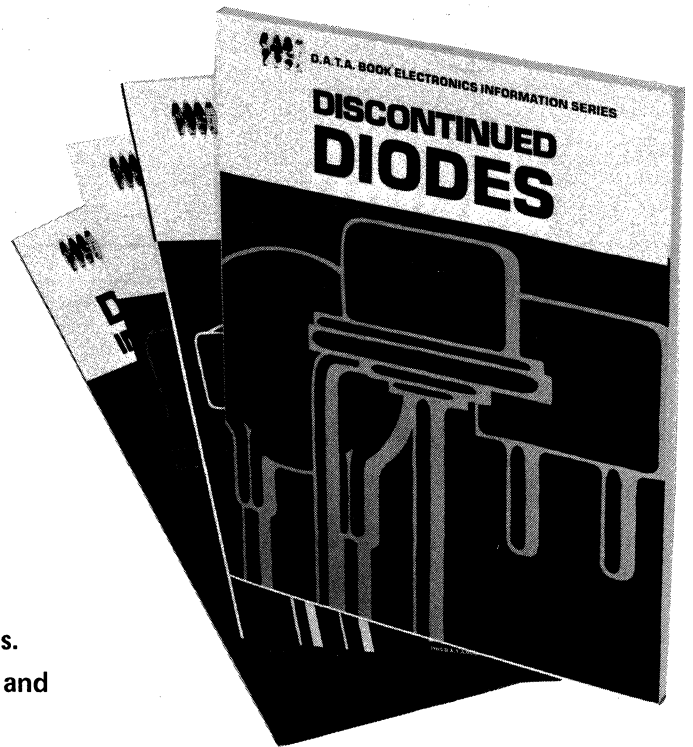
WLD – Wyle Computer Products

How to find replacements

Compare electrical characteristics — not just type numbers!

Substituting for an obsolete device by type number alone can be difficult, frustrating and downright dangerous to equipment. You need the complete electrical and physical characteristics of the obsolete device to be sure of your substitution. And that's what the four D.A.T.A.BOOKS of discontinued devices give you.

They are the only comprehensive sources for information on devices no longer manufactured. The technical data presentation coincides with that of the current D.A.T.A.BOOK in the same field, providing you with the fastest, most accurate method of selecting optimum substitutions and replacements for discontinued types. All ex-manufacturers are identified. Each book is updated and published annually.



D.A.T.A.BOOK OF DISCONTINUED TRANSISTORS

More than 11,500 types — along with characteristics — which have become obsolete since 1956.

Technical data presentation coincides with that of the TRANSISTOR D.A.T.A.BOOK to facilitate substitutions. Together they provide the fastest, most accurate method of selecting optimum replacement for discontinued types.

\$20.50

D.A.T.A.BOOK OF DISCONTINUED THYRISTORS

Provides you with technical information on SCR's and PNP devices which are no longer manufactured. 7100 discontinued SCR's from all known manufacturers which appeared at any time in the THYRISTOR D.A.T.A.BOOK.

\$15.50

D.A.T.A.BOOK OF DISCONTINUED INTEGRATED CIRCUITS

More than 18,000 worldwide Digital and Linear IC's — along with characteristics — which have become obsolete since 1965 — are included. Technical presentation coincides with that of the DIGITAL IC, LINEAR IC and MEMORY D.A.T.A.BOOKS to facilitate substitution and replacement.

\$20.50

D.A.T.A.BOOK OF DISCONTINUED SEMICONDUCTOR DIODES

Facilitates substitution when used with the SEMICONDUCTOR DIODE D.A.T.A.BOOK. Lists over 24,000 types no longer manufactured — reference diodes, general purpose, standard/fast recovery rectifiers, MW mixer and video detectors, varactors, tunnel diodes and more. A "must" for complete replacement data.

\$20.50

Check your needs and order on THE D.A.T.A.BOOKS order card in front of book.

D.A.T.A., INC.
A Cordura Company

CORDURA

INTERPRETER SYMBOLS & CODES EXPLAINED

IN TYPE NO. CROSS INDEX AND TECHNICAL SECTIONS

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 con-
 \square } fusing the device of one manufacturer with the devices of the others

Example . . . (Simulated Information)	Type No.	Manufacturer	Description
	ADC 585-12 Δ	HBC	A/D Converter
	ADC 585-12 $\#$	MOTA	Line Receiver
	ADC 585-12 \square	TII	Display Driver

- 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 number, but have more than one electrical function or package.
- %: Different suffixes for the same type number indicate availability of different packaging compositions; i.e., ceramic, plastics, silicone, etc. Consult manufacturer.

SYMBOLS & CODES COMMON TO MORE THAN ONE TECHNICAL SECTION

LINE NO.

- ▼ - New type
- ◆ - Revised specification
- # - Non-JEDEC type manufactured outside U.S.A.

INPUT LOGIC LEVEL

<u>HIGH</u>	<u>LOW</u>
Δ - Maximum	* - Minimum
% - Output logic levels	% - Output logic levels
§ - 3-state	§ - 3-state
† - Typical	† - Typical
\emptyset - Output voltage (p-p)	\emptyset - Output voltage (p-p)

MAX. OPERATING POWER DISS.

- † - Typical
- \square - Absolute maximum
- ◆ - Quiescent dissipation

MIN. OUTPUT SINK CURRENT

- \square - Absolute max.
- \emptyset - Output drive current
- † - Typical
- # - Peak pulse current

@ V_o

- † - Typical

MAX. PROPAGATION DELAY

- † - Typical
- \$ - Max. turn-on time
- \emptyset - Rise time

SCHEMATIC (LOGIC) DRAWINGS

- ◆ - Pin connection designated on outline drawing

TECHNOLOGY

- CMS - Complementary MOS (CMOS)
- MOS - Metal oxide semiconductor technology
- NMS - N-channel MOS
- PMS - P-channel MOS
- DTL - Diode-transistor logic
- RTL - Resistor-transistor logic
- TTL - Transistor-transistor logic
- ECL - Emitter coupled logic
- HYB - Hybrid technology

**POWER SUPPLY SPAN -
NEGATIVE, POSITIVE**

- \square - Absolute Maximum

OUTLINE DRAWING COLUMN (Letter Prefix)

- CH - Chip package
- CN - Can package
- DL - Dual in line package
- FP - Flat package
- MD - Modular package
- PC - Printed circuit board
- TO - Standard JEDEC outline
- Δ - MO Standard JEDEC outline
- \square - Basic package configuration

OPERATING TEMPERATURE

- * - Both values of temp. are positive

INTERPRETER SYMBOLS & CODES EXPLAINED

2. LOGIC BUFFERS/DRIVERS

LINE No.	TYPE NUMBER	FUNCT. CODE		ORGANIZ. LOGIC	T E C H N I C A L	3 MINIMUM OUTPUT CURRENT I _{OH} (A)	4 MAX. OUTPUT VOLT. (V)	INPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. NOISE IMMUNITY (V)	MAX. PROP. DELAY t _{pd} (s)	MAX. OPERATE. POWER DISS. (W)	OPER. TEMP.		DRAWINGS	
		1 BASIC LOGIC	2 OUTP. CONNCTS PER DEV					H IGH (min) (V)	L O W (max) (V)	NEG. (V)	POS. (V)				(-) (°C)	(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO
5	♦	3	4	6	•	•	•	10	11	12	•	•	15	•	•	•	•	•

IN ORDER OF: (1)BASIC LOGIC (2)CKTS/DEVICE (3)MIN. OUTPUT CURR. & (4)TYPE NUMBER

- | | | |
|---|--|--|
| <p>3 DIF – Differential
AND – AND
EXR – Exclusive OR
INV – Inverting
MUL – Multiple
NAND – NAND
NIV – Non-inverting
NOR – NOR
NAIV – NAND/Inverter
NOIV – NOR/Inverter
NIIV – INV/Non-inverting
NAAD – AND/NAND
NONI – NOR/Non-inverting
OR – OR
ORNO – OR/NOR</p> | <p>4 3S – 3-state
OC – Open collector or drain
OE – Open collector and emitter
DC – Complementary drain coupled (CMOS)
EC – Emitter or source coupled
IT – Independent transistor
RP – Resistor pull-up (passive)
TP – Totem pole (active pullup)
AH – Active high
AL – Active low
Δ – Device has multiple circuit connections (see Logic Dwg.)</p> | <p>10 □ – Absolute max. supply voltage</p> <p>11 12 * – Minimum
Δ – Maximum
% – Output logic levels
† – Typical
\$ – Levels referenced from supply voltages</p> <p>15 † – Typical
* – Minimum</p> |
|---|--|--|
- 6** Δ – No. of inputs varies with circuit; max. given

3. LINE DRIVERS/TRANSMITTERS

LINE No.	TYPE NUMBER	1 OUTPUT MODE	2 CKTS PER DEV.	TYP. OUTPUT VOLTAGE		MIN. OUTPUT SINK CURRENT I _{OL} (A)	MAX. OUTPUT RESIS. (Ω)	T E C H N I C A L	INPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. PROP. DELAY t _{pd} (s)	MAX. OPERATE. POWER DISS. (W)	OPER. TEMP.		DRAWINGS	
				3 HIGH (V)	L O W (V)				H IGH (min) (V)	L O W (max) (V)	NEG. (V)	POS. (V)			(-) (°C)	(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO
4	♦	3	5	6	•	•	9	•	•	•	•	•	•	•	•	•	•	

IN ORDER OF: (1)OUTPUT MODE (2)CKTS/DEVICE (3)TYPICAL OUTPUT VOLTAGE & (4)TYPE NUMBER

- | | | |
|---|---|--|
| <p>3 D – Differential
S – Single-ended</p> | <p>5 6 Δ – Maximum
* – Minimum
□ – Absolute maximum
∅ – Output current</p> | <p>9 * – Minimum
† – Typical
§ – Transmission Line/load Impedance</p> |
|---|---|--|

4. MEMORY/CLOCK DRIVERS

LINE No.	TYPE NUMBER	1 TYPE CODE	2 CKTS PER DEV.	3 MIN. OUTPUT SINK CURR. I _{OL} (A)	SINK OUTPUT HIGH VOLT. (V)	MAXIMUM PROPAGATION DELAY @ CAP. C (F)	MAX. INPUT CURR. (LOW) (A)	T E C H N I C A L	INPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. OPERATE. POWER DISS. (W)	OPER. TEMP.		ADD. INPT FUNC.	DRAWINGS	
									H IGH (min) (V)	L O W (max) (V)	NEG. (V)	POS. (V)		(-) (°C)	(+) (°C)		LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO
4	♦	3	•	•	•	•	•	10	•	•	•	•	•	•	19	•	•	

IN ORDER OF: (1)TYPE CODE (2)CKTS/DEVICE (3)MIN. OUTPUT SINK CURR. & (4)TYPE NUMBER

- | | | |
|--|------------------------------|---|
| <p>3 C – Clock driver
M – Memory driver</p> | <p>10 † – Typical</p> | <p>19 C – Counter capability
D – Decoder capability
L – Latch capability</p> |
|--|------------------------------|---|

• See SYMBOLS AND CODES COMMON TO MORE THAN ONE SECTION
♦ See SYMBOL FOLLOWING TYPE NO. & IN TYPE NO. CROSS INDEX

INTERPRETER

SYMBOLS & CODES EXPLAINED

5. PERIPHERAL/POWER DRIVERS

IN ORDER OF: (1)CKTS/DEVICE (2)ABS. MAX Ion
(3)ABS. MAX. COLLECTOR VOLT. &(4)TYPE NUMBER

LINE No.	4	TYPE NUMBER	1	OUTPUT TRANSIS.		3	MAX. VOLTAGE	OVER VOLTAGE	MAX. PROP. DELAY	T E C H N	INPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS	
				2	ABS. MAX. Ion (A)						ABS. MAX. VOLTAGE (V)	ON VOLTAGE (V)	ALL GATE FUNCT CODE	IN-PUT COMP tpd (s)		HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)

- | | | |
|--|---|---|
| <p>4 # — Peak pulse current</p> <p>5 * — Minimum</p> <p>5 \square — Absolute max. supply voltage</p> <p>6 3S — 3-state</p> <p>DC — Complementary drain coupled (CMOS)</p> <p>EC — Emitter or source coupled</p> <p>IT — Independent transistor</p> <p>OC — Open collector or drain</p> <p>OE — Open collector and emitter</p> <p>RP — Resistor pullup (passive)</p> <p>TP — Totem pole (active pullup)</p> <p>AH — Active high</p> <p>AL — Active low</p> | <p>7 † — Typical</p> <p>7 % — Min. high output logic level</p> <p>9 AND — AND</p> <p>EXR — Exclusive OR</p> <p>INV — Inverting</p> <p>MUL — Multiple (see logic dwg.)</p> <p>NAND — NAND</p> <p>NIV — Non-inverting</p> <p>NOR — NOR</p> <p>NAIV — NAND/Inverter</p> <p>NOIV — NOR/Inverter</p> <p>NIIV — INV/Non-inverting</p> <p>NAAD — AND/NAND</p> <p>NONI — NOR/Non-inverting</p> <p>OR — OR</p> <p>ORNO — OR/NOR</p> | <p>10 A — DTL, TTL</p> <p>B — MOS, TTL</p> <p>C — CMOS</p> <p>D — DTL</p> <p>M — MOS</p> <p>T — TTL</p> <p>X — CMOS, DTL, PMOS, TTL</p> <p>13 14 * — Minimum</p> <p>Δ — Maximum</p> <p>† — Typical</p> <p>% — Output logic levels</p> |
|--|---|---|

6. DISPLAY DRIVERS

IN ORDER OF: (1) FUNCTIONAL CAPABILITY CODE
(2)READOUT (3)No. OUTPUT LINES &(4)TYPE No.

LINE No.	4	TYPE NUMBER	1	READOUT		OUTPUT CAPABILITY		3	MIN. SINK CURRENT	ABS. MAX. VOLT.	MAX. PROP. DELAY	T E C H N	INPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. OPERATE POWER DISS. (W)	OPER. TEMP.		DRAWINGS	
				2	C-LCD	OUTPUT	CONN No.						MIN. SINK CURRENT @ Vo (A)	ABS. MAX. VOLT. (V)	HIGH (min) (V)	LOW (max) (V)		NEG. (V)	POS. (V)	(-) (°C)	(+) (°C)

- | | | |
|--|---|---|
| <p>3 A — Driver</p> <p>B — Decoder</p> <p>C — Latch</p> <p>D — Counter</p> <p>E — Oscillator</p> <p>F — Multiplexer</p> <p>4 C — Liquid crystal</p> <p>G — Gas discharge</p> <p>I — Incandescent</p> <p>L — LED</p> <p>T — Thermal printer</p> | <p>5 3S — 3-state</p> <p>OC — Open collector or drain</p> <p>OE — Open collector and emitter</p> <p>DC — Complementary drain coupled (CMOS)</p> <p>EC — Emitter or source coupled</p> <p>IT — Independent transistor</p> <p>RP — Resistor pullup (passive)</p> <p>TP — Totem pole (active pullup)</p> <p>AH — Active high</p> <p>AL — Active low</p> | <p>9 \emptyset — At rated operating conditions</p> <p>\square — Absolute maximum supply voltage</p> <p>12 13 * — Minimum</p> <p>Δ — Maximum</p> <p>† — Typical</p> <p>% — Output logic levels</p> |
|--|---|---|

7. SWITCH DRIVERS

IN ORDER OF: (1)No. OF SWITCH CHANNELS
(2)MIN. I(SINK) (3)ABS.MAX.VOLT.&(4)TYPE No.

LINE No.	4	TYPE NUMBER	1	OUTPUT		3	MAX. INPUT DRIVE CURR.	MAX. tON (s)	MAX. tOFF (s)	FEATURES	T E C H N	INPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. OPERATE POWER DISS. (W)	OPER. TEMP.		DRAWINGS	
				2	MIN. SINK @ Vo (A)							ABS. MAX. VOLT. (V)	HIGH (min) (V)	LOW (max) (V)	NEG. (V)		POS. (V)	(-) (°C)	(+) (°C)	LOGIC DWG. No.

- | | |
|---|---|
| <p>8 9 † — Typical</p> <p>$\\$ — tpd - propagation delay</p> | <p>10 Decoder — Decoder included</p> <p>Diff — Differential</p> <p>Compl Outp — Complementary output</p> <p>MW PIN — Microwave PIN diode switch driver</p> |
|---|---|

- See SYMBOLS AND CODES COMMON TO MORE THAN ONE SECTION
- ♦ See SYMBOL FOLLOWING TYPE NO. & IN TYPE NO. CROSS INDEX

INTERPRETER

SYMBOLS & CODES EXPLAINED

10. A/D CONVERTERS

IN ORDER OF: (1)RESOLUTION (2)MAX.LIN. ERROR
(3)MAX.CONVERSION TIME & (4)TYPE NUMBER

LINE No.	4 TYPE NUMBER	1 RESOLUTION OF CONV. bits	TYPE OF CONV. ART. CODE OPTIONS	2 MAX. FSR LINEAR ERROR (%)	3 MAX. CONV. TIME (s)	MAX. GAIN TEMP. DRIFT (ppm/°C)	INPUT		OUTPUT		LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS		
							P-P V-VOLT A-AMP	V-VOLT A-AMP	HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)	(-) (°C)	(+) (°C)		LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO			

- | | | | |
|--|---|---|---|
| <p>3 Δ - Maximum bit number given, bit resolution pin programmable
\$ - Number of chords</p> <p>4 C - Counter
D - Dual ramp (slope)
I - Integrating
K - Tracking
N - Compounding logarithmic (non-linear)
P - Peak detecting
Q - Quad slope
R - Resolver-to-digital
S - Successive approximation
T - 2-step
Y - Synchro-to-digital</p> | <p>5 A - Standard binary
B - Complementary binary
C - Offset binary
D - Complementary offset binary
E - Binary coded decimal (BCD)
F - Complementary BCD
G - Two's complement
H - Sign magnitude binary
I - Inverted binary
J - Sign magnitude BCD
K - Buffer
L - Inverted complementary binary</p> <p>6 § - Accuracy</p> <p>7 † - Typical</p> | <p>M - Complementary two's complement
N - One's complement
O - Inverted Offset binary
P - Inverted complementary offset binary
R - Inverted BCD
S - Inverted complementary BCD</p> <p>8 † - Typical
\$ - Combined gain and offset drift
% - Accuracy change over operating temp. range in % FSR</p> <p>9 ▽ - Absolute maximum</p> | <p>10 A - Amps - current mode
B - Bipolar
U - Unipolar
V - Volts - voltage mode
- Supplied in both current and voltage modes
∅ - Volts rms line-to-line
\$ - 60 Hz
§ - 400 Hz</p> <p>11 D - DTL load
T - TTL load
† - Typical
▽ - Maximum</p> <p>12 * - Minimum
Δ - Maximum</p> <p>13 † - Typical
§ - 3-state</p> |
|--|---|---|---|

11. D/A CONVERTERS

IN ORDER OF: (1)RESOLUTION (2)MAX.LIN. ERROR
(3)MAX. SETTLING TIME & (4)TYPE NUMBER

LINE No.	4 TYPE NUMBER	1 RESOLUTION OF CONV. bits	TYPE OF CONV. ART. CODE OPTIONS	2 MAX. FSR LINEAR ERROR (%)	3 MAX. SETTLING TIME (s)	MAX. GAIN @ ACCUR. (%)	TEMP. DRIFT (ppm/°C)	OUTPUT		INPUT		LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS	
								P-P V-VOLT A-AMP	V-VOLT A-AMP	HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)	(-) (°C)	(+) (°C)		LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO		

- | | | | |
|--|--|--|--|
| <p>3 Δ - Maximum bit number given, bit resolution pin programmable
\$ - Number of chords</p> <p>4 L - Linear
M - Multiplying
N - Companding logarithmic (non-linear)</p> | <p>5 A - Standard binary
B - Complementary binary
C - Offset binary
D - Complementary offset binary
E - Binary coded decimal (BCD)
F - Complementary BCD
G - Two's complement
H - Sign magnitude binary
I - Inverted binary
J - Sign magnitude BCD
K - Buffer</p> | <p>L - Inverted complementary binary
M - Complementary two's complement
N - One's complement
O - Inverted offset binary
P - Inverted complementary offset binary
R - Inverted BCD
S - Inverted complementary BCD</p> <p>9 \$ - Combined gain and offset drift
† - Typical
§ - Accuracy change over operating temp. range in % FSR</p> | <p>6 § - Accuracy</p> <p>7 † - Typical</p> <p>11 A - Amps - current mode
B - Bipolar
U - Unipolar
V - Volts - voltage mode
- Supplied in both current and voltage modes</p> <p>12 * - Minimum
Δ - Maximum</p> <p>13 † - Typical</p> |
|--|--|--|--|

12. LOGIC LEVEL CONVERTERS/LEVEL TRANSLATORS

IN ORDER OF: (1)FROM LOGIC (2)TO LOGIC
(3)CKTS. PER DEVICE & (4)TYPE NUMBER

LINE No.	4 TYPE NUMBER	1 CONVERTS		3 LOGIC FUNCT. CODE	No. LOG INP. per CKT	MIN. I (A)	OUTPUT SINK @ Vo (V)	T E C H N	INPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. PROP. DELAY tpd (s)	MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS		
		FROM	TO						per DEV	HIGH (min) (V)	LOW (max) (V)	NEG. (V)			POS. (V)	(-) (°C)	(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO

- | | | | |
|--|--|---|---|
| <p>3 B - Bipolar
4 C - CMOS
D - DTL
E - EIA
H - HNIL
I - IBM (MST)</p> | <p>6 K - ECL (other than 10k)
L - ECL (10k)
M - MOS
R - RTL
T - TTL</p> | <p>6 AND - AND
EXR - Exclusive OR
INV - Inverting
MUL - Multiple
NAND - NAND
NIV - Non-inverting
NOR - NOR</p> | <p>NAIV - NAND/Inverter
NOIV - NOR/Inverter
NIIV - INV/Non-inverting
NAAD - AND/NAND
NONI - NOR/Non-inverting
OR - OR
ORNO - OR/NOR</p> |
|--|--|---|---|

● See SYMBOLS AND CODES COMMON TO MORE THAN ONE SECTION
◆ See SYMBOL FOLLOWING TYPE NO. & IN TYPE NO. CROSS INDEX

INTERPRETER SYMBOLS & CODES EXPLAINED

IN TYPE NO. CROSS INDEX AND TECHNICAL SECTIONS

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 con-
 \square } fusing the device of one manufacturer with the devices of the others

Example . . .
(Simulated
Information)

Type No.	Manufacturer	Description
ADC 585-12 Δ	HBC	A/D Converter
ADC 585-12 $\#$	MOTA	Line Receiver
ADC 585-12 \square	TII	Display Driver

-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 number, but have more than one electrical function or package.

$\%$: Different suffixes for the same type number indicate availability of different packaging compositions; i.e., ceramic, plastics, silicone, etc. Consult manufacturer.

SYMBOLS & CODES COMMON TO MORE THAN ONE TECHNICAL SECTION

LINE NO.

- \blacktriangledown - New type
- \blacklozenge - Revised specification
- $\#$ - Non-JEDEC type manufactured outside U.S.A.

INPUT LOGIC LEVEL

HIGH	LOW
Δ - Maximum	* - Minimum
$\%$ - Output logic levels	$\%$ - Output logic levels
\S - 3-state	\S - 3-state
\dagger - Typical	\dagger - Typical
\emptyset - Output voltage (p-p)	\emptyset - Output voltage (p-p)

MAX. OPERATING POWER DISS.

- \dagger - Typical
- \square - Absolute maximum
- \blacklozenge - Quiescent dissipation

MIN. OUTPUT SINK CURRENT

- \square - Absolute max.
- \emptyset - Output drive current
- \dagger - Typical
- $\#$ - Peak pulse current

@ V_o

- \dagger - Typical

MAX. PROPAGATION DELAY

- \dagger - Typical
- \S - Max. turn-on time
- \emptyset - Rise time

SCHEMATIC (LOGIC) DRAWINGS

- \blacklozenge - Pin connection designated on outline drawing

TECHNOLOGY

- CMS - Complementary MOS (CMOS)
- MOS - Metal oxide semiconductor technology
- NMS - N-channel MOS
- PMS - P-channel MOS
- DTL - Diode-transistor logic
- RTL - Resistor-transistor logic
- TTL - Transistor-transistor logic
- ECL - Emitter coupled logic
- HYB - Hybrid technology

**POWER SUPPLY SPAN -
NEGATIVE, POSITIVE**

- \square - Absolute Maximum

OUTLINE DRAWING COLUMN (Letter Prefix)

- CH - Chip package
- CN - Can package
- DL - Dual in line package
- FP - Flat package
- MD - Modular package
- PC - Printed circuit board
- TO - Standard JEDEC outline
- Δ - MO Standard JEDEC outline
- \square - Basic package configuration

OPERATING TEMPERATURE

- * - Both values of temp. are positive

INTERPRETER

SYMBOLS & CODES EXPLAINED

15. ANALOG GATE SWITCHES: BILATERAL MULTIPLE

IN ORDER OF: (1) SWITCH FORM (2) SWTS PER CKT
(3) CKTS PER DEV (4) PP SW V (5) Rds @ VD @ Is (6) TYPE No.

LINE No.	TYPE NUMBER	1 SW-FORM		3 MAXIMUM		5 MAXIMUM		T E C H N	CONTROL LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. ON TIME tON (s)	MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS				
		A-SSNO	B-SSNC	2 CKT PER DEV	3 SW. P-P (V)	4 SW. P-P (V)	DRAIN/SOURCE ON RESISTANCE		Rds (Ω)	@ VD (V)	@ Is (A)	HIGH (min) (V)			LOW (max) (V)	NEG. (V)	POS. (V)	(-) (°C)	(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No.
		C-SPDT																			Δ=MO
				3	4	6	7	8		10	12	13			16						

- 3** A - SSNO - Single pole, single throw, normally open
- B - SSNC - Single pole, single throw, normally closed
- C - SPDT - Single pole, double throw
- ∅ - Multiple
- § - Ladder switch
- ▢ - W/Driver
- ▼ - W/Amplifier
- 4** Δ - Maximum
- 6** **7** ▢ - Absolute maximum
- † - Typical
- 8** † - Typical
- 10** ◆ - Load resistance in ohms
- 12** **13** § - Threshold voltage
- * - Minimum
- Δ - Maximum
- † - Typical
- 16** † - Typical
- § - tpd - propagation delay
- ∅ - tr - rise time

16. ANALOG MULTIPLEXERS

IN ORDER OF: (1) CKTS. PER DEVICE
(2) INPUT CHAN/CKT (3) MAX. SW. V. & (4) TYPE No.

LINE No.	TYPE NUMBER	1 CKTS. PER DEV		2 No. INPUT CHANN PER CKT.		3 MAXIMUM		4 MAXIMUM		T E C H N	CONTROL LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. PROP. DELAY tpd (s)	MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS	
		-ICE		3 SW. P-P (V)	4 SW. P-P (V)	DRAIN/SOURCE ON RESISTANCE	Rds (Ω)	@ VD (V)	@ Is (A)		HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)			(-) (°C)	(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No.
				3		5	6	7		9	11	12								

- 3** % - Latching or storage capability
- 5** **6** ▢ - Absolute maximum
- † - Typical
- 7** † - Typical
- 9** ◆ - Load resistance in ohms
- 11** **12** * - Minimum
- Δ - Maximum
- † - Typical

17. DIGITAL MULTIPLEXERS/SELECTORS

IN ORDER OF: (1) CKTS/DEVICE
(2) INPUT CHAN/CKT (3) MIN. I(SINK) & (4) TYPE No.

LINE No.	TYPE NUMBER	1 CKTS. PER DEV		2 No. INPUT CHANN PER CKT.		T E C H N	3 MIN. OUTPUT SINK CURRENT		INPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. PROP. DELAY tpd (s)	MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS		
		-ICE		No. OF ADDRESS LINES	I (A)		@ Vo (V)	HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)	(-) (°C)			(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No.		
																			Δ=MO
				3															

- 3** % - Latching or storage capability

18. DIGITAL DEMULTIPLEXERS/DECODERS

IN ORDER OF: (1) CKTS/DEV (2) OUTPUT CHAN/CKT.
(3) MIN. OUTPUT SINK CURR. & (4) TYPE NUMBER

LINE No.	TYPE NUMBER	1 DEMULTIPLEX		2 DECODES		T E C H N	3 MIN. OUTPUT SINK CURRENT		INPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. PROP. DELAY tpd (s)	MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS		
		1	2	FROM	TO		I (A)	@ Vo (V)	HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)			(-) (°C)	(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No.	
		CKTS. PER DEV.	OUTPUT CHAN/CKT.																

- See SYMBOLS AND CODES COMMON TO MORE THAN ONE SECTION
- ◆ See SYMBOL FOLLOWING TYPE NO. & IN TYPE NO. CROSS INDEX

INTERPRETER

SYMBOLS & CODES EXPLAINED

20. LINE RECEIVERS

IN ORDER OF: (1)INPUT MODE (2)CKTS/DEVICE
(3)HIGH INPUT THRESHOLD VOLT.& (4)TYPE No.

LINE No.	4 TYPE NUMBER	1 INPUT MODE	2 CKTS PER DEV.	THRESHOLD VOLT.-INPUT		7 MAX. INPUT RESIS (Ω)	8 MIN. SINK CURR. (A)	9 @ Vo (V)	10 T E C H N	OUTPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		13 MAX. PROP. DELAY tpd (s)	14 MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS	
				5 HIGH (V)	6 LOW (V)					11 HIGH (min) (V)	12 LOW (max) (V)	NEG. (V)	POS. (V)			(-) (°C)	(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO
•	♦	3																	

3 D — Differential
S — Single-ended

5 6 Δ — Maximum
* — Minimum
□ — Input logic level
♦ — Hysteresis voltage
∅ — Input threshold current

7 † — Typical

11 12 * — Minimum
Δ — Maximum
† — Typical
§ — 3-state

21. LINE TRANSCEIVERS

IN ORDER OF: (1)INP/OUTPUT MODE (2)CKTS/DEV
(3)MIN.DRIVER SINK CURR. &(4)TYPE NUMBER

LINE No.	4 TYPE NUMBER	1 INPUT-OUTPUT MODE	2 CKTS PER DEV.	3 MIN. SINK CURR. (A)	4 @ Vo (V)	RECVR.INPUT THRESHOLD VOLTAGE		7 MAX. RECVR. INPUT CURR. (A)	8 T E C H N	OUTPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		13 MAX. PROP. DELAY tpd (s)	14 MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS	
						7 HIGH (V)	8 LOW (V)			11 HIGH (min) (V)	12 LOW (max) (V)	NEG. (V)	POS. (V)			(-) (°C)	(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO
•	♦	3																	

3 D — Differential
S — Single-ended

7 8 Δ — Maximum
* — Minimum
□ — Input logic level
♦ — Hysteresis voltage
∅ — Input threshold current

11 12 * — Minimum
Δ — Maximum
† — Typical
§ — 3-state
∅ — Output current

22. SENSE AMPLIFIERS

IN ORDER OF: (1)CKTS/DEV. (2)TYPE OF MEMORY
(3)MIN.INPUT THRESHOLD VOLT. & (4)TYPE No.

LINE No.	4 TYPE NUMBER	1 CKTS PER DEV.	2 TYPE OF MEM-ORY	INPUT THRESHOLD VOLTAGE		5 No. INP CHAN PER CKT.	6 COMM. MODE FIRING V. P-P (V)	7 T E C H N	OUTPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		13 ADDIT. FUNCT-IONS AVAIL	14 MAX. PROP. DELAY tpd (s)	15 MAX. OPERATE PWR. DISS. (W)	OPER. TEMP.		DRAWINGS	
				5 MIN (V)	6 MAX. (V)				10 HIGH (min) (V)	11 LOW (max) (V)	NEG. (V)	POS. (V)				(-) (°C)	(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO
•	♦	4																	

4 ARM — Read mostly memory (Amorphous)
COR — CORE
MAT — Magnetic tape
MOS — MOS
NMS — NMOS
PLW — Plated wire

5 6 † — Typical
□ — Input logic level
∅ — Input threshold current
\$ — Maximum recommended differential input voltage

10 11 * — Minimum
Δ — Maximum
† — Typical
§ — 3-state

14 L — Latch
R — Register

- See SYMBOLS AND CODES COMMON TO MORE THAN ONE SECTION
- ♦ See SYMBOL FOLLOWING TYPE NO. & IN TYPE NO. CROSS INDEX

INTERPRETER

SYMBOLS & CODES EXPLAINED

23. SAMPLE/HOLD

IN ORDER OF: (1)MIN. P-P INPUT VOLT.
(2)MIN. P-P Vo (3)MAX.ACO TIME &(4)TYPE No.

LINE No.	TYPE NUMBER	INPUT		OUTPUT		SAMPLE			MODE CNTRL VOLTAGE		RATED PWR. SUPPLY SPAN		MAX. OPERATE PWR. DISS.		OPER. TEMP.		DRAWINGS	
		1 MIN. VOLT. P-P (V)	IMPEDANCE (Ω)	2 MIN. VOLT. P-P (V)	MIN. CURR. P-P (A)	SLEW RATE (V/us)	3 MAX. ACQUISITION TIME (s)	MAX. APER @OUTP TIME (s)	SMALL SIGNAL BW (Hz)	HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)	PWR. DISS. (W)	(-) (°C)	(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO
•	♦ 2	3	4	5	6	8	10	11	12	13	•	•	•	•	•	•	•	•

2 § — Peak detector

5 6 † — Typical

11 ▢ — Full power bandwidth at rated output

3 ▢ — Absolute maximum

8 † — Typical

§ — Gain - bandwidth product

4 Δ — Maximum
* — Minimum

10 † — Typical
▢ — Aperture plus aperture delay time

12 13 † — Typical
Δ — Maximum
* — Minimum

24. SCHMITT TRIGGERS

IN ORDER OF: (1)HYSTERESIS VOLT.
(2)+GOING INP.THRSV.(3)CKTS/DEV &(4)TYPE No

LINE No.	TYPE NUMBER	1 HYST-ERES VOLT. (V)	INPUT THRESHOLD VOLT			3 CKTS PER DEV.	LOGIC CODE	NOISE IMMUN-ITY (V)	MAX. PROP. DELAY tpd (s)	T E C H N	OUTPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. OPERATE PWR. DISS.		OPER. TEMP.		DRAWINGS	
			2 POS. GOING (V)	NEG. GOING (V)	MAX. (A)						HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)	PWR. DISS. (W)	(-) (°C)	(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO	
•	♦	4	5	6	8	•	•	12	13	•	•	•	•	•	•	•	•	•	•	

4 5 Δ — Maximum
* — Minimum

8 AND — AND
EXR — Exclusive OR
INV — Inverting
MUL — Multiple
NAND — NAND
NIV — Non-inverting
NOR — NOR
NAIV — NAND/Inverter
NOIV — NOR/Inverter
NIIV — INV/Non-inverting
NAAD — AND/NAND
NONI — NOR/Non-inverting
OR — OR
ORNO — OR/NOR

12 13 * — Minimum
Δ — Maximum
† — Typical
§ — 3-state

6 † — Typical

25. SPECIAL DEVICES

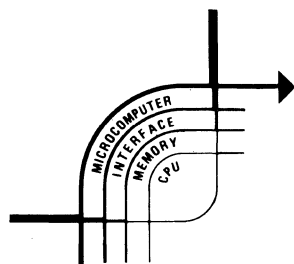
IN ORDER OF: (1)TYPE CODE &(2)TYPE NUMBER

LINE No.	TYPE NUMBER	1 TYPE CODE	T E C H N	INPUT LOGIC LEVEL		RATED PWR. SUPPLY SPAN		MAX. OPERATE POWER DISS. (W)	OPER. TEMP.		GENERAL DESCRIPTION		DRAWINGS	
				HIGH (min) (V)	LOW (max) (V)	NEG. (V)	POS. (V)		(-) (°C)	(+) (°C)	LOGIC DWG. No.	OUTLINE DWG. No. Δ=MO		
•	♦	3	•	•	•	•	•	•	•	•	•	•	•	•

- | | |
|---|--|
| <p>3 1: Priority encoder
2: Universal asynchronous receiver/transmitter (UART)
3: Data acquisition system
4: Clock clamp</p> | <p>5: Programmer/sequencer
6: Special transmitting/receiving device
7: Converter sub-system
8: Memory interface sub-system</p> |
|---|--|

• See SYMBOLS AND CODES COMMON TO MORE THAN ONE SECTION

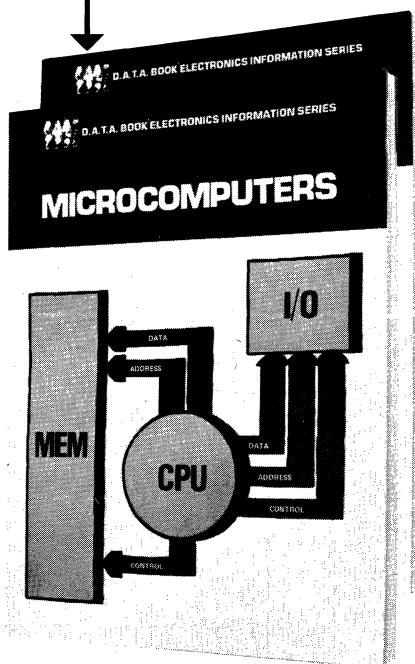
♦ See SYMBOL FOLLOWING TYPE NO. & IN TYPE NO. CROSS INDEX



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INTERFACE POWER*



Device	Input	Drivers per package	Output Current	BV _{CEX}	LV _{CE} (SUS) @ 100 mA	Gain Stages	Clamp Diodes	Package
ULN-2061M	TTL	2	1.75A	50V	35V	2	Yes	8-pin DIP†
ULN-2062M	TTL	2	1.75A	80V	50V	2	Yes	8-pin DIP†
ULN-2064B	TTL	4	1.75A	50V	35V	2	Yes	16-pin DIP
ULN-2065B	TTL	4	1.75A	80V	50V	2	Yes	16-pin DIP
ULN-2066B	MOS	4	1.75A	50V	35V	2	Yes	16-pin DIP
ULN-2067B	MOS	4	1.75A	80V	50V	2	Yes	16-pin DIP
ULN-2068B	TTL/MOS	4	1.75A	50V	35V	3	Yes	16-pin DIP
ULN-2069B	TTL/MOS	4	1.75A	80V	50V	3	Yes	16-pin DIP
ULN-2070B	MOS	4	1.75A	50V	35V	3	Yes	16-pin DIP
ULN-2071B	MOS	4	1.75A	80V	50V	3	Yes	16-pin DIP
ULN-2074B	TTL/MOS	4	1.75A	50V	35V	2	No	16-pin DIP
ULN-2075B	TTL/MOS	4	1.75A	80V	50V	2	No	16-pin DIP

† Mini-DIP, .375" long

*Only Sprague can supply dual and quad 1.75A, 50/80V Darlington Switches

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For application engineering assistance, write or call George Tully or Paul Emerald, Semiconductor Division, Sprague Electric Company, 115 Northeast Cutoff, Worcester, Mass. 01606. Tel. 617/853-5000.

For Engineering Bulletin 29305A and WR-172 'Quick Guide to Interface Circuits', write to: Technical Literature Service, Sprague Electric Company, 681 Marshall Street, North Adams, Mass. 01247.

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