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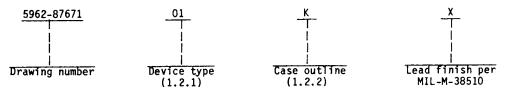
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DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

1. SCOPE

1.1 Scope. This drawing describes device requirements for class B microcircuits in accordance with 1.2.1 of MIL-STD-883, "Provisions for the use of MIL-STD-883 in conjunction with compliant non-JAN devices".

1.2 Part number. The complete part number shall be as shown in the following example:



1.2.1 Device types. The device types shall identify the circuit function as follows:

Device type	Generic number	Circuit function
01	PAL20L8B	20-input 8-output AND-OR invert gate array
02	PAL 20R8B	20-input 8-output registered AND-OR gate array
03	PAL 20R6B	20-input 6-output registered AND-OR gate array
04	PAL 20R4B	20-input 4-output registered AND-OR gate array
05	PLUS20L8	20-input 8-output AND-OR invert gate array
06	PLUS 20R8	20-input 8-output registered AND-OR gate array
07	PAL 20L8-15	20-input 8-output AND-OR invert gate array
08	PAL 20R8-15	20-input 8-output registered AND-OR gate array
09	PAL20R6-15	20-input 6-output registered AND-OR gate array
10	PAL 20R4-15	20-input 4-output registered AND-OR gate array

1.2.2 Case outlines. The case outlines shall be as designated in appendix C of MIL-M-38510, and as follows:

Outline letter	Case outline
K	F-6 (24-lead, .640" x .420" x .090"), flat package
L	D-9 (24-lead,1.280" x .310" x .200"), dual-in-line package
3	C-4 (28-terminal, .460" x .100"), square chip carrier package

1.3 Absolute maximum ratings.

1/ Heat sinking is recommended to reduce the junction temperature. 2/ Must withstand the added PD due to short circuit test (e.g., I_{OS}).

STANDARDIZED MILITARY DRAWING	SIZE A		59	962-87671	
DEFENSE ELECTRONICS SUPPLY CENTER DAYTON, OHIO 45444		REVISION LEVEL	A	SHEET 2	

DESC FORM 193A SEP 87

1.4 Recommended operating conditions.

2. APPLICABLE DOCUMENTS

2.1 Government specification, standard, and bulletin. Unless otherwise specified, the following specification, standard, and bulletin of the issue listed in that issue of the Department of Defense Index of Specifications and Standards specified in the solicitation, form a part of this drawing to the extent specified herein.

SPECIFICATION

MILITARY

MIL-M-38510

Microcircuits, General Specification for.

STANDARD

MILITARY

MIL-STD-883

Test Methods and Procedures for Microelectronics.

BULLETIN

MILITARY

MIL-BUL-103

List of Standardized Military Drawings (SMD's)

(Copies of the specification, standard, and bulletin required by manufacturers in connection with specific acquisition functions should be obtained from the contracting activity or as directed by the contracting activity.)

2.2 Order of precedence. In the event of a conflict between the text of this drawing and the references cited herein, the text of this drawing shall take precedence.

3. REQUIREMENTS

- 3.1 Item requirements. The individual item requirements shall be in accordance with 1.2.1 of MIL-STD-883, "Provisions for the use of MIL-STD-883 in conjunction with compliant non-JAN devices" and as specified herein.
- 3.2 Design, construction, and physical dimensions. The design, construction, and physical dimensions shall be as specified in MIL-M-38510 and herein.
 - 3.2.1 Terminal connections. The terminal connections shall be as specified on figure 1.
 - 3.2.2 Truth tables. The truth tables shall be as specified on figure 2.
- 3.2.2.1 Unprogrammed devices. The truth table for unprogrammed devices for contracts involving no altered item drawing shall be as specified on figure 2. When required in groups A, B, or C (see 4.4), the devices shall be programmed by the manufacturer prior to test with a minimum of 50 percent of the total number of gates programmed or to any altered item drawing pattern which includes at least 25 percent of the total number of gates programmed.

STANDARDIZED MILITARY DRAWING	SIZE A		5	962-87671	
DEFENSE ELECTRONICS SUPPLY CENTER DAYTON, OHIO 45444		 REVISION LEVEL	- A	SHEET 3	

DESC FORM 193A SEP 87

± U. S. GOVERNMENT PRINTING OFFICE: 1988—550-547

TABLE I. Electrical performance characteristics. Conditions $\frac{1}{7}$ -55°C \leq T_C \leq +125°C 4.5 V \leq V_{CC} \leq 5.5 V Group A | Device Limits Unit Test Symbol subgroups| type Min Max ٧ $V_{CC} = 4.5 \text{ V}, I_{I} = -18 \text{ mA}$ 1 A11 1.5 Input clamp VIC. voltage $\begin{array}{l} \text{V}_{CC} = 4.5 \text{ V, } \text{V}_{IL} \leq 0.8 \text{ V,} \\ \text{V}_{IH} \geq 2.0 \text{ V, } \text{I}_{OH} = -2 \text{ mA} \end{array}$ ٧ 1, 2, 3 A11 2.4 High level output IVOH vol tage ٧ V_{CC} = 4.5 V, $V_{IL} \le 0.8$ V, $V_{IH} \ge 2.0$ V, I_{OL} = 12 mA 1, 2, 3 A11 0.5 Low level output VOL voltage ٧ 1, 2, 3 A11 2.0 |V_{CC} = 5.5 V 2/ High level input ۱۷_{IH} voltage 1, 2, 3 l A11 0.8 ٧ Low level input $|V_{CC} = 5.5 V$ 2/ $|V_{IL}|$ voltage $V_{CC} = 5.5 \text{ V},$ $V_{I} = 2.4 \text{ V} \frac{3}{}$ 1, 2, 3 OE A11 40 μΑ High level input IIH čurrent 25 others 1, 2, 3 A17 -0.25 mΑ $V_{CC} = 5.5 \text{ V}, V_{I} = 0.4 \text{ V} \frac{3}{}$ Low level input IIL current 01, 02, 03, 04, $|V_{IH} \ge 5.5 V, V_{0} = 0.5 V \frac{4}{1}$ 1, 2, 3 -30 -250 mΑ Output short circuit current Ios 107, 08, 09, 10 05, 06 -90 -30 $V_{CC} = 5.5 \text{ V}, V_{I} = 5.5 \text{ V}$ 1, 2, 3 A11 1.0 mΑ Input current ΙI $|V_{CC}| = 5.5 \text{ V}, V_{IL} \leq 0.8 \text{ V}$ $|V_{IH}| \geq 2.0 \text{ V}, V_{0}| = 0.4 \text{ V} \frac{3}{2}$ μΑ 1, 2, 3 A11 -250 Off-state output Iozl current $|V_{CC} = 5.5 \text{ V}, V_{IL} \leq 0.8 \text{ V}$ $|V_{IH} \geq 2.0 \text{ V}, V_{0} = 2.4 \text{ V} = 3/$ 1, 2, 3 | A11 100 μA Off-state output IOZH current 210 mΑ $|V_{CC} = 5.5 V$ 1, 2, 3 [01, 02,] Supply current ICC 103, 04, |05, 06, | |07, 08, | 109, 10 See footnotes at end of table. SIZE STANDARDIZED Α 5962-87671 MILITARY DRAWING **REVISION LEVEL** SHEET **DEFENSE ELECTRONICS SUPPLY CENTER** DAYTON, OHIO 45444

DESC FORM 193A SEP 87

TAE	BLE I. <u>I</u>	lectrical pe	rformance	charac	teristics - 0	Continued.			
Test	 Symbol	Cond	litions $\frac{1}{2}$	/	Group A		Lim	its	Unit
	•	-55°C < T 4.5 V <	litions $\frac{1}{C} < \frac{1}{C} < \frac{1}{2}$ V _{CC} $< \frac{1}{2}$	V V	subgroups	type	Min	Max	
Propagation delay data input to	tpHL	 YCC = 5.0 V, C _L = 50 pF *	10%,		9, 10, 11	01, 03, 04		20	ns
output		$ R_1 = 390\Omega$, R for equivalent	$R_2 = 750\Omega$, at			05		10 	
		1				07, 09, 10	 	15	<u> </u>
Propagation delay data input to	I tpLH 	! 			9, 10, 11	01, 03, 04		20	ns
output						05		10	<u> </u>
	 	<u> </u>				07, 09, 10		15	
Propagation delay high impedance	t _{PZH}	T 			9, 10, 11	01, 03,		25	ns
to output high	<u> </u>					05		12	<u> </u>
	 					07, 09, 10		15	
Propagation delay high impedance	 t _{PZL}	Ţ			9, 10, 11	01, 03,	_	25	ns
to output low						05	_ ,	12	
	 					07, 09, 10		15	
Propagation delay output high to <u>5</u> /	 t _{PHZ}	T 			9, 10, 11	01, 03,	 -	20	ns
high impedance	ļ					05		1 12	+
	<u> </u>	 			į 	07, 09, 1 10		15	<u> </u>
Propagation delay output low to 5/	t _{PLZ}				9, 10, 11	01, 03,	_	20	ns
high impedance						05	 	12	<u> </u>
	 					07, 09, 10		15	
See footnotes at end o	of table.	,							
STANDAR			SIZE A				5962-87	671	
MILITARY D DEFENSE ELECTRONI DAYTON, O	CS SUPPL	Y CENTER			REVISION LEVE	L A	SHE		

TABLE I. Electrical performance characteristics - Continued. Conditions $\frac{1}{7}$ -55°C \leq T_C \leq +125°C 4.5 V \leq V_{CC} \leq 5.5 V Limits Unit Group A | Device Symbol | Test subgroups type Min Max 9, 10, 11 02, 03, 20 ns Propagation delay high impedance to tpzH output high (pin 13 to output enable) 12 06 08, 09, 15 10 9, 10, 11 02, 03, 20 ns Propagation delay tpZL high impedance to output low (pin 13 12 06 to output enable) 15 108, 09, 9, 10, 11 02, 03, 20 ns Propagation delay 5/ltpHZ 04 output high to high impedance (pin 13 to output 12 06 disable) 108, 09, 15 10 20 9, 10, 11 | 02, 03, ns Propagation delay 5/tpLZ 04 output low to high impedance (pin 13 to output 15 107, 09, 10 disable) 06 12 15 9, 10, 11 02, 03, 1 ns Clock to output **t**PCH 04, 08, 09<u>, 10 |</u> t_{PCL} 12 06 19, 10, 11 02, 03, ns Minimum clock pulse tp(CL) 04 width 106, 08, 109, 10 10 19, 10, 11 | 02, 03, | ns Minimum setup time $\frac{2}{|t_{su}|}$ 04 108, 09,1 15 10 See footnotes at end of table. SIZE STANDARDIZED Α 5962~87671 **MILITARY DRAWING REVISION LEVEL** SHEET **DEFENSE ELECTRONICS SUPPLY CENTER** 6 DAYTON, OHIO 45444

DESC FORM 193A SEP 87 ± U. S. GOVERNMENT PRINTING OFFICE: 1988-550-547

Test	Symbol	Conditions $\frac{1}{2}$	Group A		Limi	ts	i Uni:
		Conditions $\frac{1}{2}$ / -55°C < T _C < +125°C 4.5 V < V _{CC} < 5.5 V	subgroups 	type	Min 	Max	
Minimum hold time 🧵	2/ t _H	$ V_{CC} = 5.0 \text{ V},$ $ C_L = 50 \text{ pF } \pm 10\%,$ $ R_L = 390\Omega, R_2 = 750\Omega,$ $ R_L = 390\Omega$		 02, 03, 04, 08, 09, 10	0		ns
Maximum clock frequency 2/6/	fMAX	T . 	9, 10, 11	 02, 03, 04	41.6		 MHz

All voltages are referenced to ground.

Tested only initially and after any design change. I/O terminal leakage is the worst case of I_{IX} or I_{OZX} .

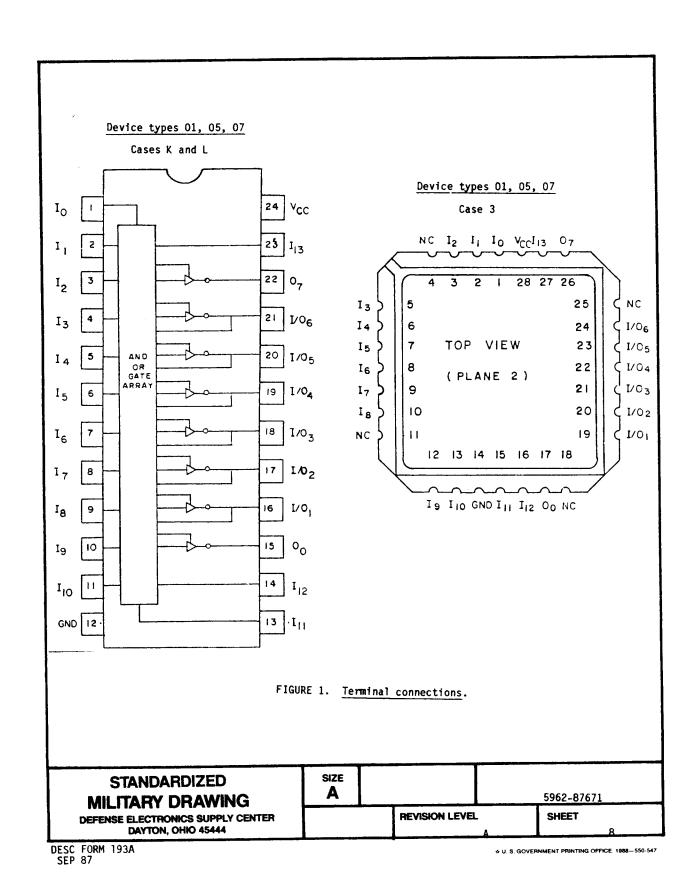
Only one output shorted at a time. C_L = 50 pF. Equivalent testing may be used to simulate the 5 pF load.

MAX (t p(C1))

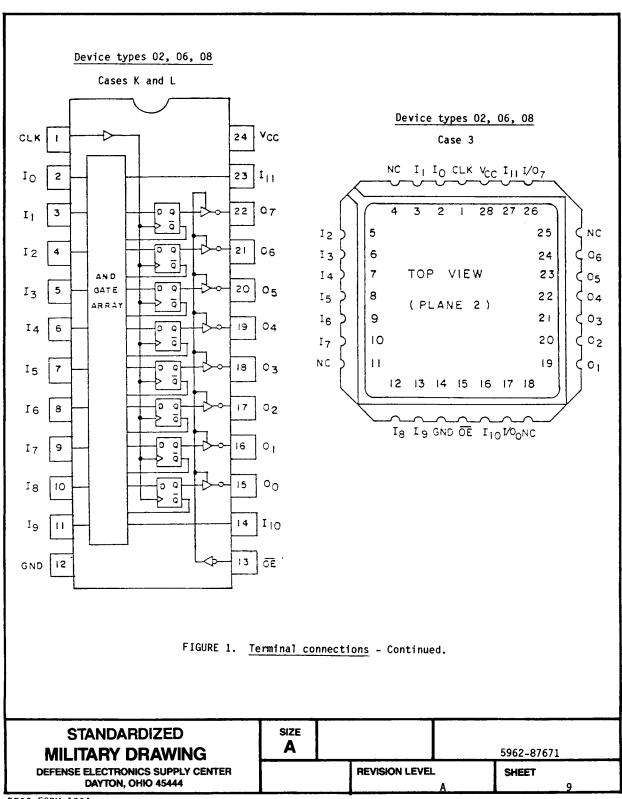
- 3.2.2.2 Programmed devices. The truth table for programmed devices shall be as specified by an attached altered drawing.
- 3.2.3 Logic diagram. The logic diagram for unprogrammed devices shall be as specified on figure 3.
 - 3.2.4 <u>Case outlines</u>. The case outlines shall be in accordance with 1.2.2.
- 3.3 Electrical performance characteristics. Unless otherwise specified herein, the electrical performance characteristics are as specified in table I and apply over the full case operating temperature range.
- 3.4 Electrical test requirements. The electrical test requirements shall be the subgroups specified in table II. The electrical test for each subgroup are described in table I.
- 3.5 Marking. Marking shall be in accordance with MIL-STD-883 (see 3.1 herein). The part shall be marked with the part number listed in 1.2 herein. In addition, the manufacturer's part number may also be marked as listed in MIL-BUL-103 (see 6.6 herein).
- 3.6 Certificate of compliance. A certificate of compliance shall be required from a manufacturer in order to be listed as an approved source of supply in MIL-BUL-103 (see 6.6 herein). The certificate of compliance submitted to DESC-ECS prior to listing as an approved source of supply shall affirm that the manufacturer's product meets the requirements of MIL-STD-883 (see 3.1 herein) and the requirements herein.
- 3.7 Certificate of conformance. A certificate of conformance as required in MIL-STD-883 (see 3.1 herein) shall be provided with each lot of microcircuits delivered to this drawing.

STANDARDIZED MILITARY DRAWING	SIZE A		5	962-87671	
DEFENSE ELECTRONICS SUPPLY CENTER DAYTON, OHIO 45444		REVISION	LEVEL A	SHEET 7	

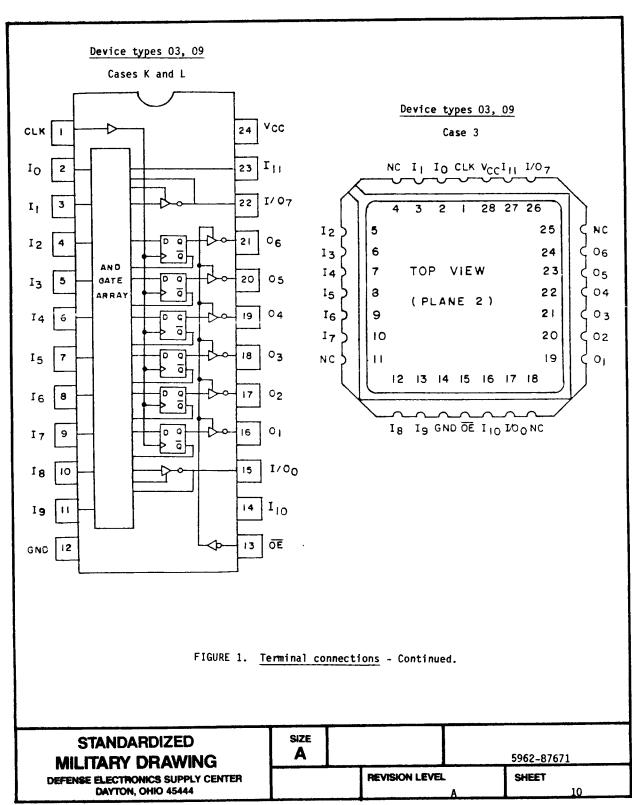
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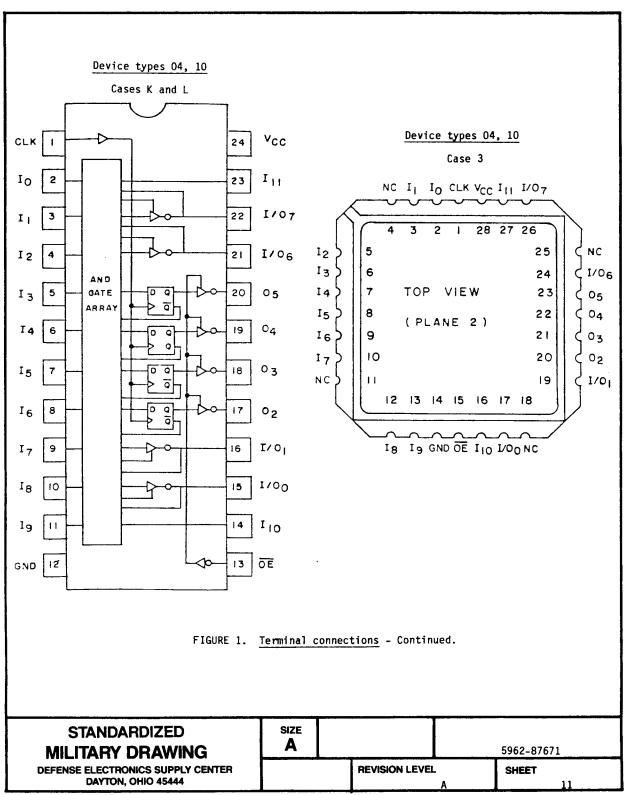
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1									Devi	ces	type	s 01	, 05	, 07	7						
Г	Inputs Outputs																				
I ₁₃	I ₁₂	111	I ₁₀	I ₉	I ₈	I ₇	16	15	14	13	I ₂	1,	I ₀	07	1/06	1/05	1/04	1/03	1/02	1/01	o _o
X	Х	х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	X	Z	Z	Z	Z	Z	Z	Z	Z

Devices types 02, 06, 08

						Inpu	ts										Ou	tput	s		
ŌĒ	111	I ₁₀	I ₉	1 ₈	I ₇	1 ₆	I ₅	I ₄	13	12	I	10	CLK	07	06	05	04	03	02	01	00
Н	х	х	Х	Х	Х	Х	Х	Х	х	Х	х	Х	CLK	Z	Z	Z	Z	Z	Z	Z	Z
L	Х	Х	X	Х	Х	Х	Х	Х	Х	Х	Х	Х	CLK	н	11	Н	Н	Н	H	Н	-11

Devices types 03, 09

Γ					:	Inpu	ts									0	u tpu	ts			
ŌĒ	111	I ₁₀	I ₉	1 ₈	I ₇	I ₆	I ₅	I ₄	I ₃	12	1,	10	CLK	1/07	06	05	04	03	02	01	.1/0
Н	Х	Х	Х	Х	Х	х	х	х	х	Х	X.	Х	CLK.	Z	Z	Z	Z	Z	Z	Z	Z
L	Х	Х	Х	Х	х	Х	х	Х	Х	Х	Х	Х	CLK	Z	11	11	Н	11	Н	II	Z

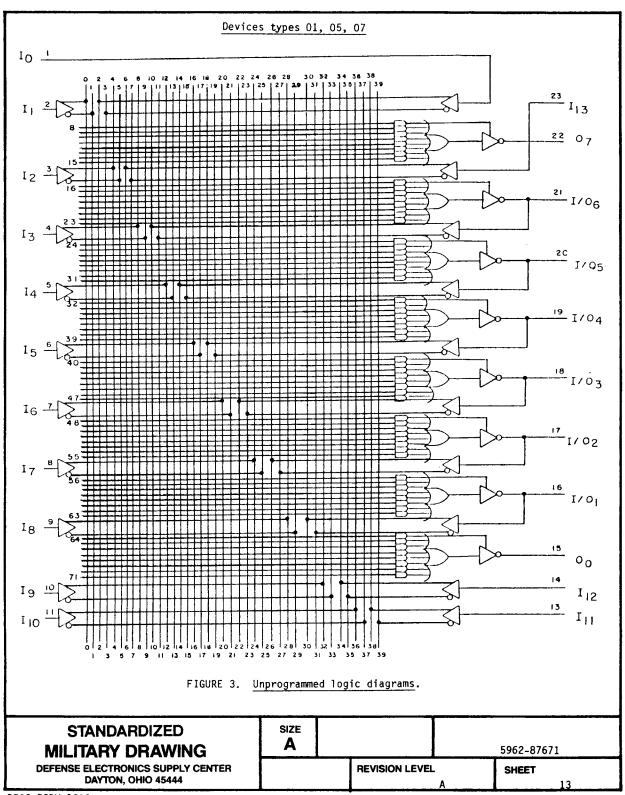
Devices types 04, 10

_			 .			Inpu	ts				· -					Out	puts				
ŌĒ	1,1	I ₁₀	I 9	I ₈	I ₇	I ₆	¹ ₅	I ₄	I ₃	12	Il	10	CLK	1/07	1/06	05	04	03	02	1/01	1/00
Н	Х	Х	Х	Х	Х	X	Х	Х	Х	Х	X	Х	CLK	Z	Z	Z	Z	Z	Z	Z	z
L	Х	Х	х	Х	Х	Х	Х	х	Х	Х	Х	Х	CLK	Z	Z	11	11	н	Н	Z	Z

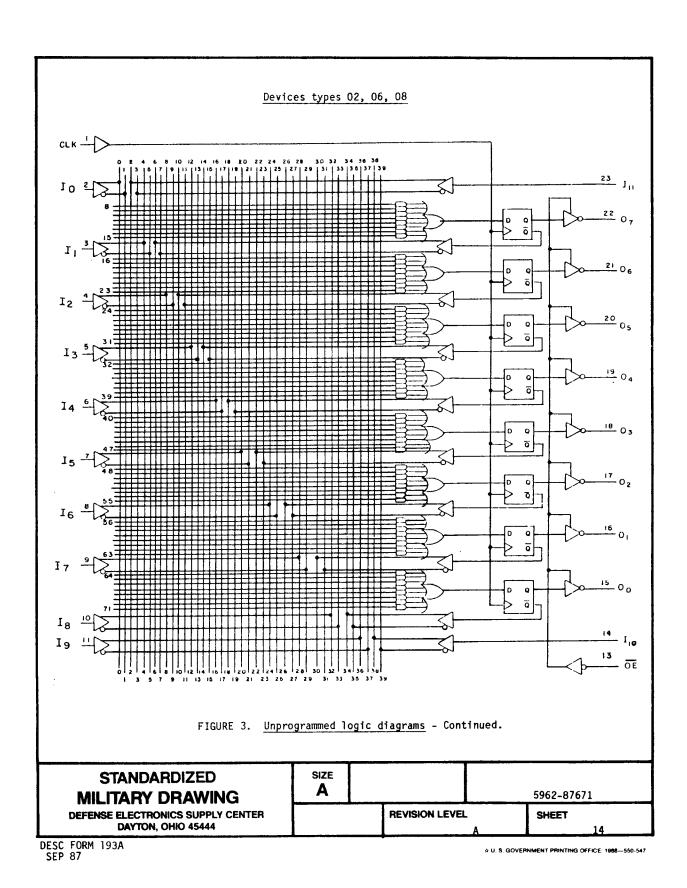
FIGURE 2. Truth tables (unprogrammed).

STANDARDIZED MILITARY DRAWING DEFENSE ELECTRONICS SUPPLY CENTER DAYTON, OHIO 45444 SIZE A 5962-87671 REVISION LEVEL SHEET A 12

DESC FORM 193A SEP 87



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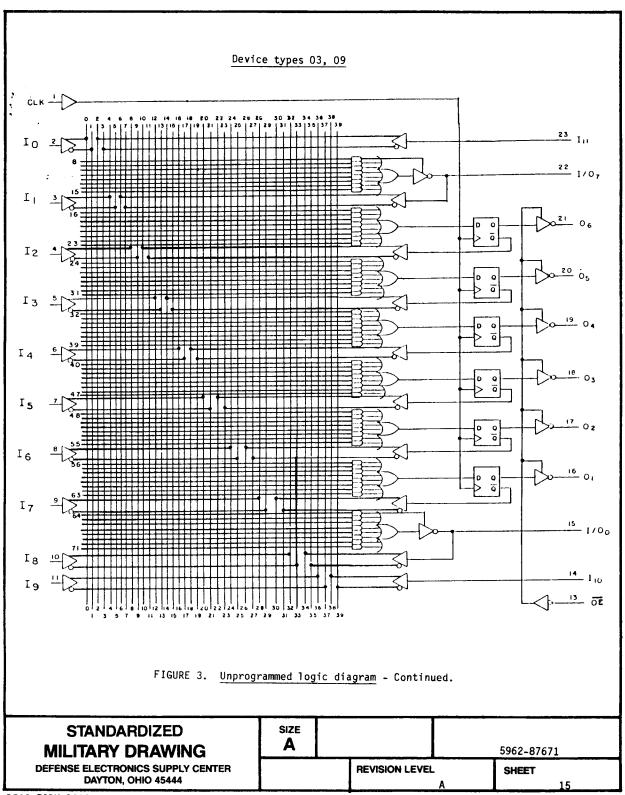


TABLE	II.	Electrical	test	requirements.	1/	2/	3/

MIL-STD-883 test requirements	Subgroups (per method 5005, table I)
 Interim electrical parameters (method 5004)	1
 Final electrical test parameters (method 5004) for programmed devices	1 1*, 2, 3, 7*, 8
 Final electrical test parameters (method 5004) for unprogrammed devices	1 1*, 2, 3, 7*, 8
 Group A test requirements (method 5005)	1, 2, 3, 7, 1, 2, 3, 7, 8, 9, 10, 11
 Groups C and D end-point electrical parameters (method 5005)	1, 2, 3, 7,

- 1/ * PDA applies to subgroups 1 and 7. $\underline{Z}/$ Any or all subgroups may be combined when using high-speed testers.
- Subgroups 7 and 8 functional tests shall also verify the truth table of figure 2 for unprogrammed devices or that the altered item drawing pattern exists for programmed devices.
- 3.8 Notification of change. Notification of change to DESC-ECS shall be required in accordance with MIL-STD-883 (see 3.1 herein).
- 3.9 Verification and review. DESC, DESC's agent, and the acquiring activity retain the option to review the manufacturer's facility and applicable required documentation. Offshore documentation shall be made available onshore at the option of the reviewer.
- 3.10 Processing options. Since the device is capable of being programmed by either the manufacturer or the user to result in a wide variety of configurations, two processing options are provided for selection in the contract, using an altered item drawing.
- 3.10.1 Unprogrammed device delivered to the user. All testing shall be verified through group A testing as defined in 3.2.2.1 and table II. It is recommended that users perform subgroups 7and 9 after programming to verify the specific program configuration.
- 3.10.2 Manufacturer-programmed device delivered to the user. All testing requirements and quality assurance provisions herein, including the requirements of the altered item drawing, shall be satisfied by the manufacturer prior to delivery.
 - 4. OUALITY ASSURANCE PROVISIONS
- 4.1 Sampling and inspection. Sampling and inspection procedures shall be in accordance with section 4 of MIL-M-38510 to the extent specified in MIL-STD-883 (see 3.1 herein).

STANDARDIZED MILITARY DRAWING	SIZE A		5	962-87671
DEFENSE ELECTRONICS SUPPLY CENTER DAYTON, OHIO 45444		REVISION LEVE	L A	SHEET 17

± U. S. GOVERNMENT PRINTING OFFICE: 1988-550-547

- 4.2 <u>Screening</u>. Screening shall be in accordance with method 5004 of MIL-STD-883, and shall be conducted on all devices prior to quality conformance inspection. The following additional criteria shall apply:
 - a. Burn-in test, method 1015 of MIL-STD-883.
 - Test condition A, B, C, or D using the circuit submitted with the certificate of compliance (see 3.6 herein).
 - (2) $T_A = +125$ °C, minimum.
 - b. Interim and final electrical test parameters shall be as specified in table II herein, except interim electrical parameter tests prior to burn-in are optional at the discretion of the manufacturer.
- 4.3 Quality conformance inspection. Quality conformance inspection shall be in accordance with method 5005 of MIL-STD-883 including groups A, B, C, and D inspections. The following additional criteria shall apply.
 - 4.3.1 Group A inspection.
 - a. Tests shall be as specified in table II herein.
 - b. Subgroups 4, 5, and 6 in table I, method 5005 of MIL-STD-883 shall be omitted.
 - c. Unprogrammed devices, shall be tested for programmability and ac performance compliance to the requirements of group A, subgroups 9, 10, and 11. Either of two techniques is acceptable.
 - (1) Testing the entire lot using additional built-in test circuitry which allows the manufacturer to verify programmability and ac performance without programming the user array. If this is done, the resulting test patterns shall be verfied on all devices during subgroups 9, 10, and 11, group A testing in accordance with the sampling plan specified in MIL-STD-883 method 5005.
 - (2) If each compliance cannot be tested on an unprogrammed device, a sample shall be selected to satify programmability requirements prior to performing subgroups 9, 10, and 11. Twelve devices shall be submitted to programming (see 3.2.2.1) If more than two devices fail to program, the lot shall be rejected. At the manufacturer's option, the sample may be increased to 24 total devices with no more than 4 total device failures allowable. Ten devices from programmability sample shall be submitted to the requirements of group A, subgroups 9, 10, and 11. If no more than two total devices fail, the lot shall be rejected. At the manufacturer's option, the sample may be increased to 20 total devices with no more than 4 total device failures allowable.
 - 4.3.2 Groups C and D inspections.
 - a. End-point electrical parameters shall be as specified in table II herein.
 - b. Steady-state life test (method 1005 of MIL-STD-883) conditions:
 - Test condition A, B, C, or D using the circuit submitted with the certificate of compliance (see 3.6 herein).
 - (2) $T_A = +125^{\circ}C$, minimum.
 - (3) Test duration: 1,000 hours, except as permitted by appendix B of MIL-M-38510.

STANDARDIZED MILITARY DRAWING	SIZE A		5962-87671
DEFENSE ELECTRONICS SUPPLY CENTER DAYTON, OHIO 45444		REVISION LEVEL.	SHEET 18

± U. S. GOVERNMENT PRINTING OFFICE: 1988--550-547

- 4.4 Programming procedures. The programming procedures shall be as specified by the device manufacturer.
 - PACKAGING
- 5.1 Packaging requirements. The requirements for packaging shall be in accordance with MIL-M-38510.
 - 6. NOTES
- 6.1 <u>Intended use</u>. Microcircuits conforming to this drawing are intended for use when military specifications do not exist and qualified military devices that will perform the required function are not available for OEM application. When a military specification exists and the product covered by this drawing has been qualified for listing on QPL-38510, the device specified herein will be inactivated and will not be used for new design. The QPL-38510 product shall be the preferred item for all applications.
- 6.2 Replaceability. Microcircuits covered by this drawing will replace the same generic device covered by a contractor-prepared specification or drawing.
- 6.3 Configuration control of SMD's. All proposed changes to existing SMD's will be coordinated with the users of record for the indiviual documents. This coordination will be accomplished in accordance with MIL-STD-481 using DD Form 1693, Engineering Change Proposal (Short Form).
- 6.4 Record of users. Military and industrial users shall inform the Defense Electronics Supply Center when a system application requires configuration control and the applicable SMD. DESC will maintain a record of users and this list will be used for coordination and distribution of changes to the drawings. Users of drawings covering microelectronic devices (FSC 5962) should contact DESC-ECS, telephone (513) 296-6022.
- 6.5 Comments. Comments on this drawing should be directed to DESC-ECS, Dayton, Ohio 45444, or telephone 513-296-5375.
- 6.6 Approved sources of supply. Approved sources of supply are listed in MIL-BUL-103. Additional sources will be added to MIL-BUL-103 as they become available. The vendors listed in MIL-BUL-103 have agreed to this drawing and a certificate of compliance (see 3.6 herein) has been submitted to and accepted by DESC-ECS. The approved sources of supply listed below are for information purposes only and are current only to the date of the last action of this document.

Military drawing part number	Vendor CAGE number	Vendor similar part number <u>1</u> /	Replacement military specification part number
5962-8767101LX	50364 01295	PAL20L8BMJS/883B TIBPAL20L8-20MJTB	•
5962-8767101KX	50364 01295	 PAL20L8BMW/883B TIBPAL20L8-20MWB	ı
5962-87671013X	50364 01295	 PAL20L8BML/883B TIBPAL20L8-20MFKB	
5962-8767102LX	50364 01295	PAL2OR8BMJS/883B TIBPAL2OR8-20MJTB	

STANDARDIZED MILITARY DRAWING	SIZE A		59	962-87671	
DEFENSE ELECTRONICS SUPPLY CENTER DAYTON, OHIO 45444		REVISION LEVEL	A	SHEET 19	

Military drawing	Vendor CAGE	Vendor similar part	Replacement
part number	number	number 1/	military specification part number
5962-8767102KX	50364 01295	PAL20R8BMW/883B TIBPAL20R8-20MWB	
5962-87671023X	50364 01295	 PAL2OR8BML/883B TIBPAL2OR8-20MFKB	
5962-8767103LX	50364 01295	 PAL2OR6BMJS/883B TIBPAL2OR6-2OMJTB	
5962-8767103KX	50364 01295	 PAL2OR6BMW/883B TIBPAL2OR6-20MWB	
5962-87671033X 	50364 01295	 PAL2OR6BML/883B TIBPAL2OR6-2OMFDB	
5962-8767104LX	50364 01295	 PAL2OR4BMJS/883B TIBPAL2OR4-20MJFB	
5962-8767104KX	50364 01295	 PAL2OR4BMW/883B TIBPAL2OR4-20MWB	
5962-87671043X 	50364 01295	 PAL2OR4BML/883B TIBPAL2OR4-2OMFDB	
5962-8767105LX	18324	 PLUS20L8/BLA 	
5962-8767105KX	18324	PLUS20L8/BKA	
5962-87671053X	18324	PLUS20L8/B3A	
5962-8767106LX	18324	PLUS20R8/BLA	
5962-8767106KX	18324	PLUS20R8/BKA	
5962-87671063X	18324	PLUS20R8/B3A	
5962-8767107LX	34335	PAL20L8-15	1
5962-8767108LX	34335	PAL 20R8-15	
5962-8767109LX	34335	PAL20R6-15	<u> </u>
5962-8767110LX	34335	 PAL 20R4-15 	

Caution. Do not use this number for item acquisition. Items acquired to this number may not satisfy the performance requirements of this drawing.

STANDARDIZED MILITARY DRAWING	SIZE A		5962-87671
DEFENSE ELECTRONICS SUPPLY CENTER DAYTON, OHIO 45444		REVISION LEVEL	SHEET 20

Vendor CAGE number	Vendor name and address	Fusible-link
50364	MMI/AMD 901 Thompson Place Sunnyvale, CA 94088	Titanium-tungsten
01295	Texas Instruments Inc. 13500 N. Central Expressway P.O. Box 655305 Dallas, TX 75265 Point of contact: I-20 at FM 1788 Midland, TX 79711-0448	Titanium-tungsten
18324	Signetics Company 4130 S. Market Court Sacaramento CA 95834	Titanium-tungsten
34335	Advance Micro Devices 901 Thompson Place P.O. Box 3453 Sunnyvale, CA 94088	Titanium-tungsten

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