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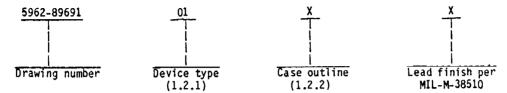
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SCOPE

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	Access time
01	(See 6.6)	8K X 8 CMOS SRAM (low power)	25 ns
02	(See 6.6)	8K X 8 CMOS SRAM	25 ns
04	(See 6.6)	8K X 8 CMOS SRAM	20 ns
06	(See 6.6)	8K X 8 CMOS SRAM	15 ns

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
X Y	D-10 (28-lead, 1.490" x 0.610" x 0.232"), dual-in-line package C-12 (32-terminal, 0.560" x 0.458" x 0.120"), rectangular chip carrier
Z U,N	package See figure 1, $(28-pin, 1.490" \times 0.310", \times 0.200")$, dual-in-line package C-11A $(28-termina)$, $0.560" \times 0.358" \times 0.075"$, rectangular chip carrier
T	package F-11 (28-lead, 0.740" x 0.380" x 0.090"), flat package

1.3 Absolute maximum ratings.

1/ All voltages referenced to V_{SS} unless otherwise specified.
2/ Maximum junction temperature shall not be exceeded except for allowable short duration burn-in screening conditions in accordance with method 5004 of MIL-STD-883.

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DEFENSE ELECTRONICS SUPPLY CENTER DAYTON, OHIO 45444		REVISION LEVEL	SHEET 2

,		
1.4 Recommended oper	ating o	conditions.
Supply voltage (VS Input high voltage Input low voltage Case operating tem	S) (V _{IH}) (V _{IL}) - peratur	4.5 V dc to 5.5 V dc
2. APPLICABLE DOCUME	NTS	
Tollowing specification	, stand ndex of	on, standard, and bulletin. Unless otherwise specified, the lard, and bulletin of the issue listed in that issue of the Specifications and Standards specified in the solicitation, form a stent 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 specific	ication	, standard, and bulletin required by manufacturers in connection

on 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 <u>Terminal connections</u>. The terminal connections shall be as specified on figure 2.
 - 3.2.2 Truth table. The truth table shall be as specified on figure 3.
 - 3.2.3 <u>Case outlines</u>. The case outlines shall be in accordance with 1.2.2 herein.

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	TABLE 1	. Elect	rical peri	formanc	e charac	cteristics.	•			
Test	 Symbol	-55 4.5	ditions °C < T _C < V < V _{CC} s otherwi	1/ +125°(< 5.5 \ se spec	; / :ified	 Group A subgroups 		Lin Min		Unit
High level output voltage	V _{OH}	I _O = -4. V _{CC} = 4.	0 mA, V _{IL} 5 V, V _{IH}	= 0.8 = 2.2	V V	1, 2, 3	A11	2.4		٧
Low level output voltage	Iv _{oL}	 I ₀ = 8.0 V _{CC} = 4.	mA, V _{IL} 5 V, V _{IH}	= 0.8 \ = 2.2 \	!	 1, 2, 3 	l A11 		0.4	V
High impedance output leakage current			5 V			11, 2, 3	02,04, 06 01	-10.0 -5.0	5.0	μA
Input leakage current	IIH	V _{IN} = 5. V _{CC} = 5.	5 V 5 V			1, 2, 3	02,04,		10.0	μА
		1 1 1				; 	i 01 i	1	5.0	
	IIL	V _{IN} = GN V _{CC} = 5.	D 5 V			1, 2, 3	02,04 06	-10.0		μА
		1 				! 	01	-5.0		
Operating supply current	I _{CC1}	! CE ₂₌ 2.	5 V, <u>CE</u> = 4 V, <u>OE</u> =	0.8 V 2.4 V		1, 2, 3	01	[110	mA
		f = 1/t 	AVQV			 	02,04, 06		135 150	_
Standby supply current (TTL)	Icc2	10£2 = 0.	5 Y, CET : 8 V, f = 0	= 2.4 V O Hz	,	1, 2, 3	01		20	πA
	1	OE = 2.4 	V			! !	02,04, 06	 	40	
Standby supply current (CMOS)	1	lor CE2 =	5 V, CET : GND +0.3	= VCC -	0.3 V	1, 2, 3	01		10	mΑ
	1	f = 0 Hz 					02,04		20	
Data retention supply current	I _{CC4}	 V _{CC} = 2. CE2 < 0. Applies data ret	O V, CET : 2 V only to de ention.	≥ ^V CC - evices	0.2 V	1, 2, 3	 01 		300	μA
See footnotes at end of	table.					·				
STANDARDI			SIZE A				EA	62-8969	31	
MILITARY DRA DEFENSE ELECTRONICS DAYTON, OHIO			REVISION	N LEVEL		SHEET	4			

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TAB	LE I. Ele	ctrical	performan	ce char	acterisi	tics	- C	ont	inued.			
Test	 Symbol	Co -5 4. unle	onditions 55°C < TC 5 V < VCC	1/ < +125° < 5.5 ise spe	C V cified	Gro	oup ogro	A ups	 Device types		imits Max	Unit
Input capacitance 2/ 3/	CIN	1	MHz, VIN =				4	-	 A11 		10	pF
Output capacitance 2/3/	COUT	f = 1 M	Hz, V _{OUT} =	= 0 V 4.3.1c			4	•	A11		12	l pF
Functional tests		 See 4.3	.1d			7	, 8		All			
Read/write cycle time	tavav	 	<u>4/ 5</u> /			9, 	10,		 01 02 04 06	25 25 20 15	İ	ns
Address access time	t _{AVQV}	 				9, 	10,	11	01 02 04 06		25 25 20 15	-
Output hold from address change	t _{AVQX}					9,	10,	11	All	0		l ns
Output enable to output active 3/6/	t _{OLQX}					9, 	10,		01, 02 04, 06			l ns
Output enable to output valid	toLQV				•	9, : 	10,	1	01 02 04 06		15 15 15 12	
Chip enable access time	telqv				!	9,	10,	 	01 02 04 06		25 25 20]
Chip disable to output disable 3/6/	t _{EHQZ}					 9, 1 	10,		01 02 04 06		15 15 15 10	1
ee footnotes at end of	table.											_
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TABLE I. Electrical performance characteristics - Continued. Conditions $\frac{1}{4}$ $\frac{4}{5}$ $\frac{5}{6}$ nless otherwise specified Device Limits Unit Test Symbol Group A Min Max subgroups types 0 Write recovery time |9, 10, 11| All ns TWHAY |9, 10, 11|01 20 n s Chip enable to ItELWH end-of-write 20 15 104 106 13 9, 10, 11 01, 02, 1 04, 06 3 Chip enable to output teLQX ns active 3/ 6/ End-of-write to data twhQX 19, 10, 11 01, 02, 0 ns active 3/ 6/ 104, 06 |9, 10, 11|01 0 Chip enable to tCDR Applies only to devices with ns data retention 3/ data retention 9, 10, 11|01 25 Applies only to devices with ns Recovery from data t_R retention mode data retention 3/ Address valid to 9, 10, 11 01 20 ns tAVWH 20 end-of-write C4 15 100 15 0 |9, 10, 11| A11 Address valid to กร t_{AVWL} write enable 15 19, 10, 11 01 ns Output disable to toHQZ 15 output inactive 02 04 15 3/ 06 10 19, 10, 11|01 20 ns Write enable pulse tWL WH 20 102 width 04 15 06 13 9, 10, 11|01 15 ns Data set-up to t_{DVWH} 102 15 1 end-of-write 7.7 12 106 10 | See footnotes at end of table. **STANDARDIZED** SIZE Α 5962-89691 MILITARY DRAWING **REVISION LEVEL** SHEET **DEFENSE ELECTRONICS SUPPLY CENTER** 6 DAYTON, OHIO 45444

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	TABLE I. Ele	ctrical performance characteri	stics - Cont	inued.		•
Test	 Symbol	Conditions $1/4/5/$ -55°C < T _C < +125°C 4.5 V < V _C C < 5.5 V unless otherwise specified	 Group A subgroups	Device types	Limits Min Max	 Unit
Data hold after end-of-write	t _{WHDX}		9, 10, 11	A11	0	ns
Address valid to chip enable	tAVEL		9, 10, 11	A11	0	l ns

1/ All voltages referenced to ground. Negative undershoots to a minimum of -0.3 V are allowed with a maximum of 50 ns pulse width.

2/ Effective capacitance calculated from C = $\Delta Q/\Delta V$ = 3 volts and V_{CC} = 5.0 V, or measured with capacitance meter.

3/ Tested initially and after any design or process changes which could affect these parameters, and therefore shall be guaranteed to the limits specified in table I.

4/ For timing waveforms, see figure 4.

- AC measurements assume transition time < 5 ns, input levels are from ground to 3.0 V, and output load $C_1 > 30$ pF and 1 /TTL gate except as noted on figure 5. Timing reference levels are 1.5 V.
- 6/ This parameter measured ±500 mV from steady-state.
- 3.3 Electrical performance characteristics. Unless otherwise specified herein, the electrical performance characteristics are as specified in table I and shall 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 tests 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.
- 3.8 Notification of change. Notification of change to DESC-ECS shall be required in accordance with ML-STD-883 (see 3.1 herein).
- 3.9 <u>Verification and review</u>. 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.

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- 4. QUALITY 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).
- 4.2 Screening. 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 D using the circuit submitted with the certificate of compliance (see 3.6 herein).
 - (2) $T_A = +125^{\circ}C$, 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.

TABLE II. Electrical test requirements.

MIL-STD-883 test requirements	Subgroups (per method 5005, table I)
Interim electrical parameters (method 5004)	
Final electrical test parameters (method 5004)	 1*, 2, 3, 7*, 8A, 8B,9, 10, 11
Group A test requirements (method 5005)	1, 2, 3, 4**,7***, (8A,8B)***,9,10,11
Groups C and D end-point electrical parameters (method 5005)	1 2, 3, 7, 8A, 8B

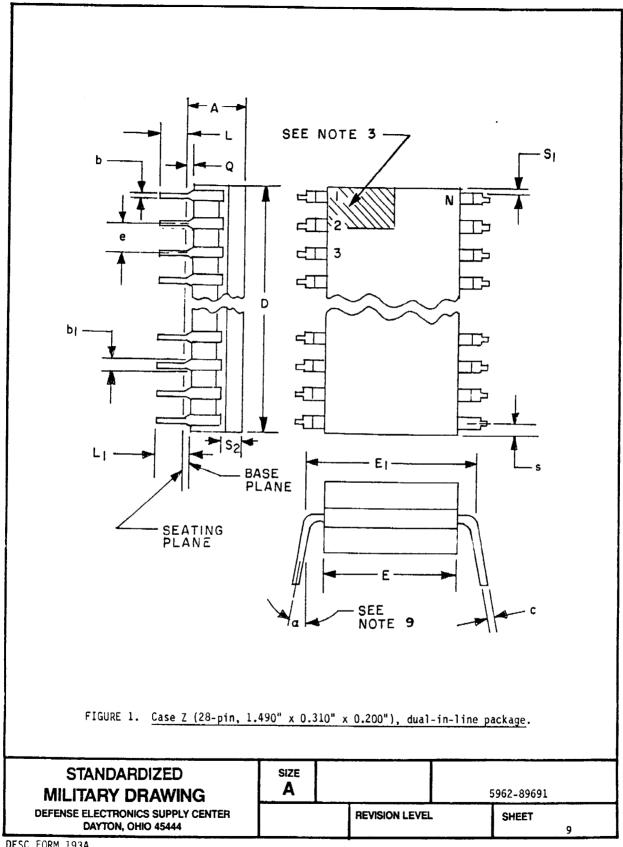
^{*} PDA applies to subgroups 1 and 7.

4.3 Quality conformance inspection. Quality conformance inspection shall be in accordance with method $\overline{5005}$ of MIL-SID-883 including groups A, B, C, and D inspections. The following additional criteria shall apply.

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^{**} See 4.3.1c.

^{***} See 4.3.1d.



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	Inc	hes !	Milli	neters	
Symbol	Min	Max	Min	Max	Notes
A	l 	.200		5.08	
l b	.014	.023	0.36	0.58	10
l b ₁	.030	.070	0.76	1.78	4, 10
c	.008	.015	0.20	0.38	10
D D	 	1.490		 37.89	6
E 	.220	.310	5.59	7.87	6
E ₁	.290	.320	7.37	8,13	9

	Incl	nes	l Millin	neters	
Symbol	Min	Max	l Min	Max	Notes
l e	.100	BSC	2.54	BSC	7, 11
l L	.125	.200	 3.18	5.08	
l L ₁	.150	 	 3.81 	 	
T Q	.015	.060	0.38	1.52	5
S	l	.100	 	2.54	8
\ S ₁	.005		0.13	- - -	8
S ₂	.005		0.13		13
a l	0°	15°	0°	15°	

NOTES:

1. Dimensions are in inches.

2. Metric equivalents are given for general information only.

3. Index area; a notch or a pin one identification mark shall be located adjacent to pin one and shall be located within the shaded area shown. The manufacturer's identification shall not be used as a pin one identification mark.

4. The minimum limit for dimension by may be .023 (0.58 mm) for leads number 1, 14, 15, and 28 only.

5. Dimension Q shall be measured from the seating plane to the base plane.

This dimension allows for off-center lid, meniscus and glass overrun.

7. The basic pin spacing is .100 (2.54 mm) between centerlines. Each pin centerline shall be located within $\pm .010$ (0.25 mm) of its exact longitudinal position relative to pins 1 and 28.

8. Applies to all four corners (leads number 1, 14, 15, and 28) shall apply.

- 9. Lead center when α is 0°. E₁ shall be measured at the centerline of the leads. 10. All leads Increase maximum limit by .003 (0.08 mm) measured at the center of the flat, when lead finish A or B is applied.

 Twenty-six spaces.
 If this configuration is used, no organic or polymeric materials shall be molded to the bottom of the package to cover the leads.

13. Not applicable for configuration 1.

14. Configurations 1 and 3 may be used (see MIL-M-33510 appendix 0 for dual-in-line packages, for configuration styles).

FIGURE 1. Case Z (28-pin, 1.490" x 0.310" x 0.200"), dual-in-line package - Continued.

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Device types	01, 02, 04, and 06		
Case outlines	X, Z, T, and N	 U 	 Y
Terminal number	Term	inal symb	01
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 31 32	NC A12 A7 A6 A5 A4 A3 A1 A0 I/O I/O I/O I/O I/O I/O I/O I/O A10	A4 A5 A6 NC A7 A8 A10 A11 I/O I/O I/O I/O I/O I/O A12 A23 CE VCC CC	NC

FIGURE 2. Terminal connections.

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CE₁ WEIDEI MODE CE₂ DQ STANDBY X | X HIGH Z STANDBY X HIGH Z X X READ L D OUT Н READ Н ÌН HIGH Z WRITE D IN l L χ

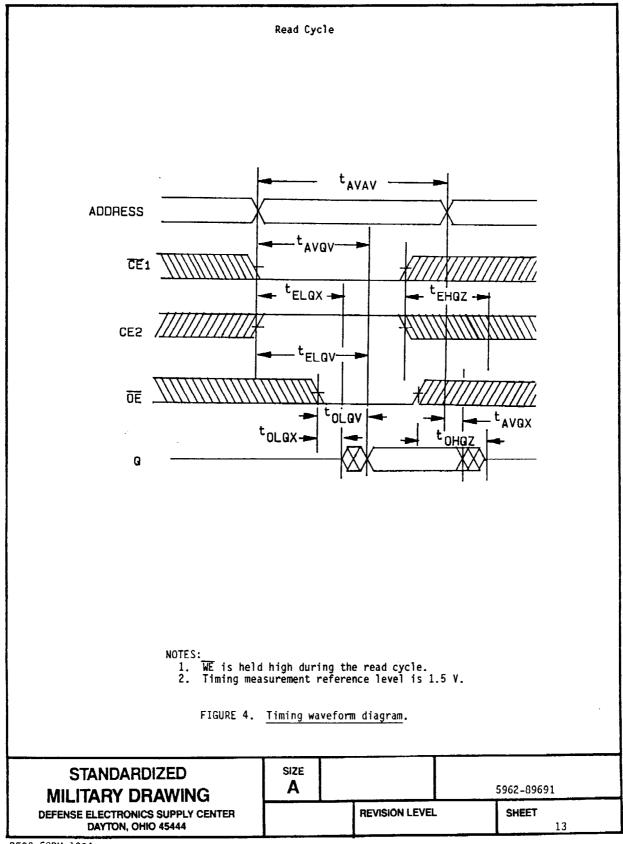
H = logic "1" state, L = logic "0" state. X = logic "don't care state, and Z = high impedance state.

FIGURE 3. Truth table.

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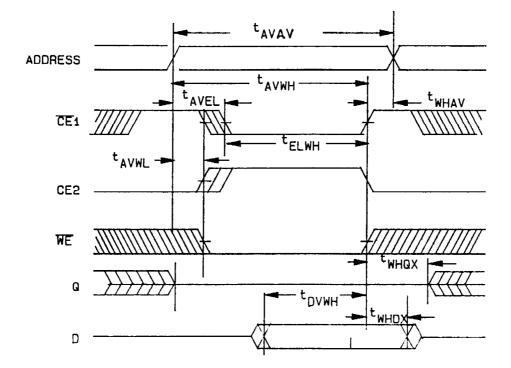
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Write cycle 1

(CE1 or CE2 controlled)



NOTES:

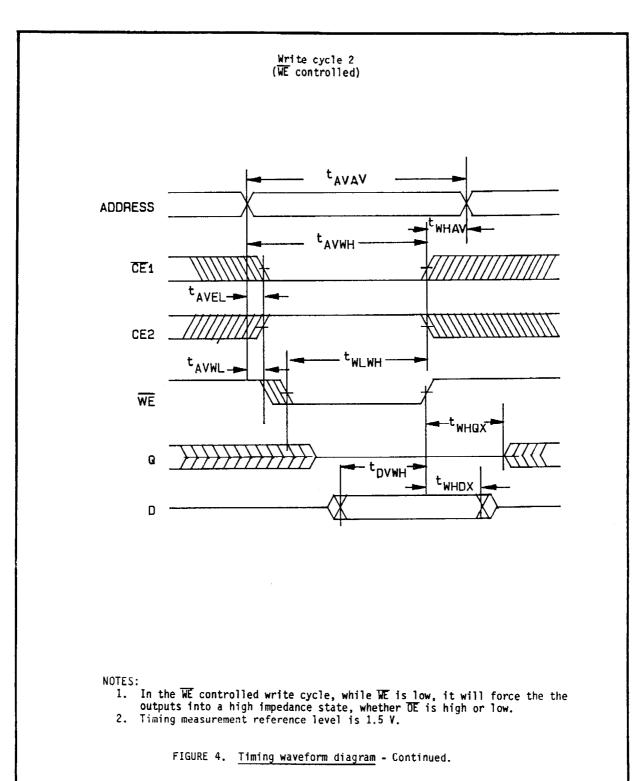
- Either CEI or CE2 may be used to control the write cycle. If CEI is used, CE2 should be high when WE is low. If CE2 is used, CEI should be low when WE is low
- 2. In a $\overline{\text{CE1}}$ or $\overline{\text{CE2}}$ controlled write cycle, the outputs assume a high impedance state, whether $\overline{\text{OE}}$ is high or low.
- 3. Timing measurement reference is 1.5 V.

FIGURE 4. Timing waveform diagram - Continued.

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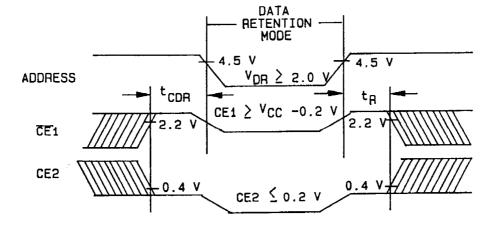
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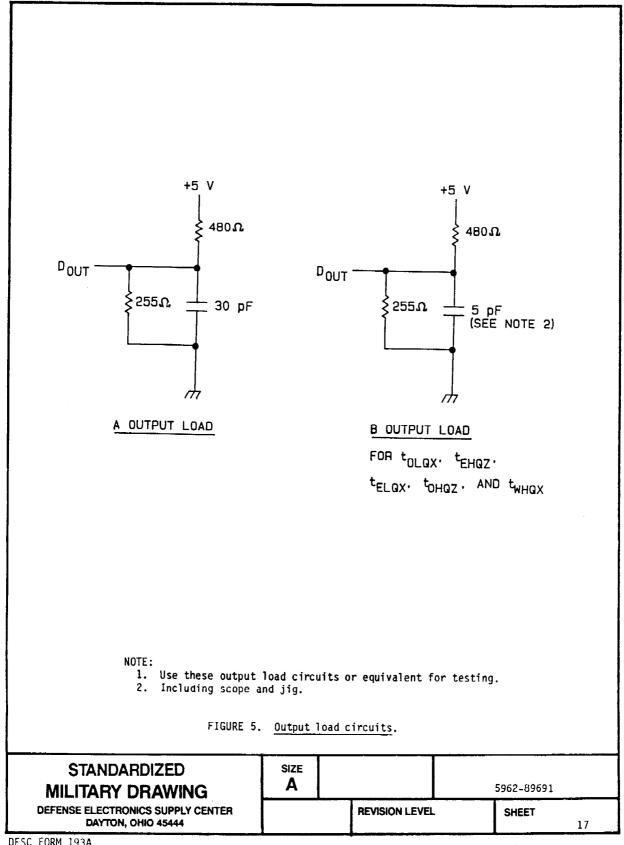
NOTE: Either $\overline{\text{CE1}}$ or CE2 may be used to begin data retention mode.

FIGURE 4. Timing waveform diagram - Continued.

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- 4.3.1 Group A inspection.
 - a. Tests shall be as specified in table II herein.
 - b. Subgroups 5 and 6 in table I, method 5005 of MIL-STD-883 shall be omitted.
 - c. Subgroup 4 (C_{IN} and C_{OUT} measurements) shall be measured only for the initial test and after process or design changes which may affect input or output capacitance. Sample size is fifteen devices, all input and output terminals tested and no failures.
 - d. Subgroups 7 and 8 tests sufficient to verify the truth table.
- 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 conditions, method 1005 of MIL-STD-883.
 - (1) Test condition 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 method 1005 of MIL-STD-883.
- PACKAGING
- 5.1 Packaging requirements. The requirements for packaging shall be in accordance with MIL-M-38510.
 - 6. NOTES
- 6.1 Intended use. 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 <u>Replaceability</u>. 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 individual 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 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 microelectronics devices (FSC 5962) should contact DESC-ECS, telephone (513) 296-6022.

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- 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.

γ 		
 Military drawing part number 	 Yendor CAGE number 	Yendor similar part number <u>1</u> /
 5962-8969101XX 	 75569 	P4C164L-25DWMB
5962-8969101ZX	 75569 	P4C164L-25CMB
 5962-8969101UX 	75569	P4C164L-25LMB
5962-8969101TX	 75569 	P4C164L-25FMB
5962-8969102XX 	75569 64440 65786 34649	P4C164-25DWMB MT5C6408CW-25 883C CY7C186-25DMB MC5104-25/B
5962-8969102YX	6Y440	MT5C6408ECW-25 883C
5962-8969102ZX	75569 6Y440 65786	P4C164-25CMB MT5C6408C-25 883C CY7C185-25DMB
 5962-8969102UX 	65786 75569	CY7C186-LMB P4C164-25LMB
 5962-8969102NX 	 6Y440 	MT5C6408EC-25 883C

See footnote at end of table.

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	,	
 Military drawing part number 	Yendor CAGE number	Vendor similar part number <u>1</u> /
 5962-8969102TX 	65786 75569	CY7C186-25KMB P4C164-25FMB
5962-8969104XX	67440 65786 75569	MT5C6408CH-20 883C CY7C186-20DMB P4C164-20DWMB
 5962-8969104YX 	 6Y440 	MT5C6408ECW-20 883C
5962-8969104ZX	75569 6Y440 65786	P4C164-20CMB MT5C6408C-20 883C CY7C185-20DMB
 5962-8969104UX 	 65786 75569	CY7C186-20LMB
5962-8969104NX	 6Y440 	MT5C6408EC-20 883C
 5962-8969104TX 	75569	P4C164-20FMB
5962-8969106XX	 6Y440 65786	MT5C6408CH-15 883C CY7C186-15DMB
 5962-8969106YX 	 6Y440 	MT5C6408ECW-15883C
5962-8969106ZX	 6Y440 65786	MT5C6408C-15 883C CY7C185-15DMB
 5962-8969106UX 	 65786 	CY7C186-15LMB
 5962-8969106NX	 6Y440 	MT5C6408EC-15 883C
5962-8969106TX	65786	CY7C186-15KMB

 $[\]frac{1}{}$ 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 Å	596		5962-89691	
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Vendor CAGE

number

Cypress Semiconductor
3901 N. First Street
San Jose, CA 95134

6Y440

Micron Technology
2805 E Columbia Road
Boise, ID 83706

Intel Corporation
3065 Bowers Avenue
Santa Clara, CA 95051

75569

Performance Semiconductor Corporated
610 East Weddell Drive
Sunnyvale, CA 94089

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