

REVISIONS

LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
H.	Redrawn with changes. Delete vendor CAGE 27014 for PINs 01J, 01L, 013, 02J, 02L, 023, 03J, 03L, and 033. Add vendor CAGE 07933 for PINs 01J, 01X, and 01L. Change vendor CAGE 18324 similar PIN for devices 03J and 033. Remove programming procedures, waveforms and characteristic tables. Change C _{IN} for CE input only for device 03 from 15 pF maximum to 20 pF maximum, table I. Change to table II and delete 3.2.2.1. Editorial changes throughout. Add case outline "X".	92-05-15	M. A. Frye
J	Updated boilerplate. Sheet 6, change V _{OH} conditions from I _{OH} = -2.0 mA to -1.6 mA; change C _{IN} max. limit from 10 pF to 20 pF; change C _{OUT} max. limit for devices 01 and 02 from 13 pF to 20 pF; change t _{EA} max. limit for device 01 from 45 ns to 55 ns; add footnote 3 to t _{DA} conditions column. Sheet 12, changes to note 2 and figure 4. Remove vendors CAGE 27014 and 34335 as suppliers, and removed their associated switching time test circuits. Corrected errors and omissions with switching time test circuits.	97-05-12	Raymond Monnin

CURRENT CAGE CODE 67268

REV																			
SHEET																			
REV	J																		
SHEET	14																		
REV STATUS OF SHEETS	REV	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J
	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13					
PMIC N/A	PREPARED BY Rick Officer	DEFENSE SUPPLY CENTER COLUMBUS COLUMBUS, OHIO 43216-5000																	
STANDARD MICROCIRCUIT DRAWING THIS DRAWING IS AVAILABLE FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE AMSC N/A	CHECKED BY Ray Monnin	MICROCIRCUITS, MEMORY, DIGITAL, BIPOLAR, 64K (8K X 8) PROM, MONOLITHIC SILICON																	
	APPROVED BY Michael A. Frye																		
	DRAWING APPROVAL DATE 92-05-15	SIZE A	CAGE CODE 14933	82009															
	REVISION LEVEL J	SHEET	1	OF	14														

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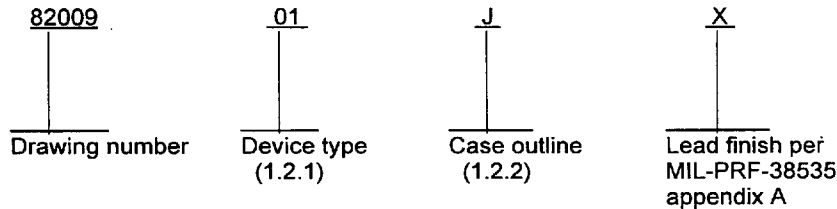
DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

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1. SCOPE

1.1 Scope. This drawing describes device requirements for MIL-STD-883 compliant, non-JAN class level B microcircuits in accordance with MIL-PRF-38535, appendix A.

1.2 Part or Identifying Number (PIN). The complete PIN shall be as shown in the following example:



1.2.1 Device type(s). The device type(s) shall identify the circuit function as follows:

<u>Device type</u>	<u>Generic number</u>	<u>Circuit function</u>	<u>Access time</u>
01	(See 6.6)	8192 words x 8 bits per word PROM with a third high impedance state output	100 ns
02	(See 6.6)	8192 words x 8 bits per word PROM with a third high impedance state output	55 ns
03	(See 6.6)	8192 words x 8 bits per word PROM with a third high impedance state output	45 ns

1.2.2 Case outline(s). The case outline(s) shall be as designated in MIL-STD-1835 and as follows:

<u>Outline letter</u>	<u>Descriptive designator</u>	<u>Terminals</u>	<u>Package style</u>
J	GDIP1-T24 or CDIP2-T24	24	Dual-in-line
K	GDFP2-F24 or CDFP3-F24	24	flat package
L	GDIP3-T24 or CDIP4-T24	24	Dual-in-line
Z	CQCC1-N32	32	Rectangular leadless chip carrier
X	CDFP4-F24	24	flat package
3	CQCC1-N28	28	square chip carrier

1.3 Absolute maximum ratings.

- Supply voltage range -0.3 V dc to +7.0 V dc
- Input voltage 5.5 V dc
- Storage temperature range -65°C to +150°C
- Lead temperature (soldering, 10 seconds) +300°C
- Thermal resistance, junction-to-case (Θ_{JC}): 1/ 2/
- Cases J, K, L, Z, X, and 3 See MIL-STD-1835
- Output voltage applied -0.3 V dc to +V_{CC}
- Output sink current 100 mA
- Maximum power dissipation (P_D) 1/ 1.04 W
- Maximum junction temperature (T_J) +175°C

1.4 Recommended operating conditions.

- Supply voltage range (V_{CC}) 4.5 V dc minimum to 5.5 V dc maximum
- Minimum high level input voltage (V_{IH}) 2.0 V dc
- Maximum low level input voltage (V_{IL}) 0.8 V dc
- Normalized fanout (each output) 12 mA
- Case operating temperature range (T_C) -55°C to +125°C

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

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2. APPLICABLE DOCUMENTS

2.1 Government specification, standards, and handbooks. The following specification, standards, and handbooks form a part of this drawing to the extent specified herein. Unless otherwise specified, the issues of these documents are those listed in the issue of the Department of Defense Index of Specifications and Standards (DoDISS) and supplement thereto, cited in the solicitation.

SPECIFICATION

MILITARY

MIL-PRF-38535 - Integrated Circuits Manufacturing, General Specification for.

STANDARDS

MILITARY

MIL-STD-883 - Test Methods and Procedures for Microelectronics.
 MIL-STD-973 - Configuration Management.
 MIL-STD-1835 - Microcircuit Case Outlines.

HANDBOOKS

MILITARY

MIL-HDBK-103 - List of Standard Microcircuit Drawings (SMD's).
 MIL-HDBK-780 - Standard Microcircuit Drawings.

(Unless otherwise indicated, copies of the specification, standards, and handbooks are available from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094.)

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. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

3. REQUIREMENTS

3.1 Item requirements. The individual item requirements shall be in accordance with MIL-PRF-38535, appendix A for non-JAN class level B devices and as specified herein. Product built to this drawing that is produced by a Qualified Manufacturer Listing (QML) certified and qualified manufacturer or a manufacturer who has been granted transitional certification to MIL-PRF-38535 may be processed as QML product in accordance with the manufacturers approved program plan and qualifying activity approval in accordance with MIL-PRF-38535. This QML flow as documented in the Quality Management (QM) plan may make modifications to the requirements herein. These modifications shall not affect form, fit, or function of the device. These modifications shall not affect the PIN as described herein. A "Q" or "QML" certification mark in accordance with MIL-PRF-38535 is required to identify when the QML flow option is used.

3.2 Design, construction, and physical dimensions. The design, construction, and physical dimensions shall be as specified in MIL-PRF-38535, appendix A and herein.

3.2.1 Case outline(s). The case outline(s) shall be in accordance with 1.2.2 herein.

3.2.2 Terminal connections. The terminal connections shall be as specified on figure 1.

3.2.3 Truth table. The truth table shall be as specified on figure 2.

3.2.3.1 Unprogrammed devices. The truth table for unprogrammed devices shall be as specified on figure 2. When required in group A or C inspection (see 4.4), the devices shall be programmed by the manufacturer prior to test in a checkerboard pattern (a minimum of 50 percent of the total number of bits programmed).

3.2.3.2 Programmed devices. The requirements for supplying programmed devices are not part of this drawing.

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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-PRF-38535, appendix A. The part shall be marked with the PIN listed in 1.2 herein. In addition, the manufacturer's PIN may also be marked as listed in MIL-HDBK-103 (see 6.6 herein). For packages where marking of the entire SMD PIN number is not feasible due to space limitations, the manufacturer has the option of not marking the "5962-" on the device.

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-HDBK-103 (see 6.6 herein). The certificate of compliance submitted to DSCC-VA prior to listing as an approved source of supply shall affirm that the manufacturer's product meets the requirements of MIL-PRF-38535, appendix A and the requirements herein.

3.7 Certificate of conformance. A certificate of conformance as required in MIL-PRF-38535, appendix A shall be provided with each lot of microcircuits delivered to this drawing.

3.8 Notification of change. Notification of change to DSCC-VA shall be required in accordance with MIL-PRF-38535, appendix A.

3.9 Verification and review. DSCC, DSCC'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 PROM is an unprogrammed memory capable of being programmed by either the manufacturer or the user to result in a wide variety of ROM configurations, two processing options are provided for selection, using an altered item drawing.

3.10.1 Unprogrammed PROM delivered to the user. All testing shall be verified through group A testing as defined in 3.2.3.1 and table II herein. It is recommended that users perform subgroups 7 and 9 after programming to verify the specific program configuration.

3.10.2 Manufacturer-programmed PROM 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. QUALITY ASSURANCE PROVISIONS

4.1 Sampling and inspection. Sampling and inspection procedures shall be in accordance with MIL-PRF-38535, appendix A.

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.
 - (1) Test condition A, C, or D. The test circuit shall be maintained by the manufacturer under document revision level control and shall be made available to the preparing or acquiring activity upon request. The test circuit shall specify the inputs, outputs, biases, and power dissipation, as applicable, in accordance with the intent specified in test method 1015 of MIL-STD-883.
 - (2) $T_A = +125^\circ\text{C}$, 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.
- c. All devices processed to an altered item drawing may be programmed either before or after burn-in at the manufacturer's discretion. The required electrical testing shall include, as a minimum, the final electrical tests for programmed devices as specified in table II herein.

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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 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 capacitance. Sample size is 15 devices with no failures, and all input and output terminals tested.
- d. 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 verified on all devices during subgroups 9, 10, and 11, group A testing per the sampling plan specified in MIL-STD-883, method 5005.
 - (2) If such compliance cannot be tested on an unprogrammed device, a sample shall be selected to satisfy programmability requirements prior to performing subgroups 9, 10, and 11. Twelve devices shall be submitted to programming. If more than 2 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 the programmability sample shall be submitted to the requirements of group A, subgroups 9, 10, and 11. If more than 2 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.)
- e. Subgroups 7 and 8 shall include verification of 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 A, C, or D. The test circuit shall be maintained by the manufacturer under document revision level control and shall be made available to the preparing or acquiring activity upon request. The test circuit shall specify the inputs, outputs, biases, and power dissipation, as applicable, in accordance with the intent specified in test method 1005 of MIL-STD-883.
 - (2) $T_A = +125^\circ\text{C}$, minimum.
 - (3) Test duration: 1,000 hours, except as permitted by method 1005 of MIL-STD-883.
- c. The programmability sample (see 4.3.1d) shall be included in subgroup 1 tests.

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TABLE I. Electrical performance characteristics.

Test	Symbol	Conditions ^{1/}	Device type	Group A subgroups	Limits		Unit
					Min	Max	
High level output voltage	V _{OH}	V _{CC} = 4.5 V I _{OH} = -1.6 mA	01,02,03	1,2,3,	2.4		V
Low level output voltage	V _{OL}	V _{CC} = 4.5 V I _{OL} = 16 mA	01,02,03	1,2,3		0.5	V
Input clamp voltage	V _{IC}	I _{IN} = -18 mA T _C = +25°C	01,02,03	1		-1.2	V
High impedance (off state) output high current	I _{OZH}	V _{CC} = 5.5 V	01,02,03	1,2,3		100	μA
High impedance (off state) output low current	I _{OLZ}	V _{CC} = 5.5 V	01,02,03	1,2,3		-100	μA
High level input current	I _{IH}	V _{IH} = 5.5 V	01,02,03	1,2,3		40	μA
Low level input current	I _{IL}	V _{IL} = 0.45 V	01,02,03	1,2,3		-100	μA
Short circuit output current	I _{OS}	V _{OUT} = 0.0 V ^{2/}	01,02,03	1,2,3	-15	-100	mA
Supply current	I _{CC}	V _{CC} = 5.5 V All inputs grounded	01,02,03	1,2,3		190	mA
Input capacitance	C _{IN}	V _{CC} = 5 V f = 1 MHz V _{IN} = 2.0 V See 4.3.1c	01,02,03	4		20	pF
Output capacitance	C _{OUT}		01,02,03	4		20 15	pF
Propagation delay time, address to output (address access time)	t _{AA}	V _{CC} = 4.5 V and 5.5 V See figure 4 for corresponding circuit and capacitive load	01	9,10,11		100	ns
	t _{AA}		03			45	
	t _{AA}		02			55	
Propagation delay time, enable to output (chip enable access time)	t _{EA}		01	9,10,11		55	ns
	t _{EA}		03			25	
	t _{EA}		02			35	
Chip disable access time	t _{DA}	V _{CC} = 4.5 V and 5.5 V See figure 4 for corresponding circuit and capacitive load ^{3/}	01	9,10,11		45	ns
			02			35	
			03			25	

1/ Unless otherwise specified, T_C = -55°C to +125°C and V_{CC} = 4.5 V to 5.5 V.

2/ Not more than one output shall be grounded at one time, and the duration of the short circuit condition shall not exceed 1 second.

3/ This parameter may not be tested, but shall be guaranteed to the value specified in Table I.

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Device types	All		
Case outlines	J, K, X, L	Z	3
Terminal number	Terminal symbol		
1	A ₇	NC	NC
2	A ₆	NC	A ₇
3	A ₅	A ₇	A ₆
4	A ₄	A ₆	A ₅
5	A ₃	A ₅	A ₄
6	A ₂	A ₄	A ₃
7	A ₁	A ₃	A ₂
8	A ₀	A ₂	A ₁
9	O ₁	A ₁	A ₀
10	O ₂	A ₀	NC
11	O ₃	NC	O ₁
12	GND	O ₁	O ₂
13	O ₄	O ₂	O ₃
14	O ₅	O ₃	GND
15	O ₆	NC	NC
16	O ₇	GND	O ₄
17	O ₈	O ₄	O ₅
18	A ₁₂	NC	O ₆
19	A ₁₁	O ₅	O ₇
20	CE	O ₆	O ₈
21	A ₁₀	O ₇	NC
22	A ₉	O ₈	A ₁₂
23	A ₈	NC	A ₁₁
24	V _{CC}	A ₁₂	CE
25	---	A ₁₁	A ₁₀
26	---	CE	A ₉
27	---	NC	A ₈
28	---	A ₁₀	V _{CC}
29	---	A ₉	---
30	---	A ₈	---
31	---	NC	---
32	---	V _{CC}	---

FIGURE 1. Terminal connections

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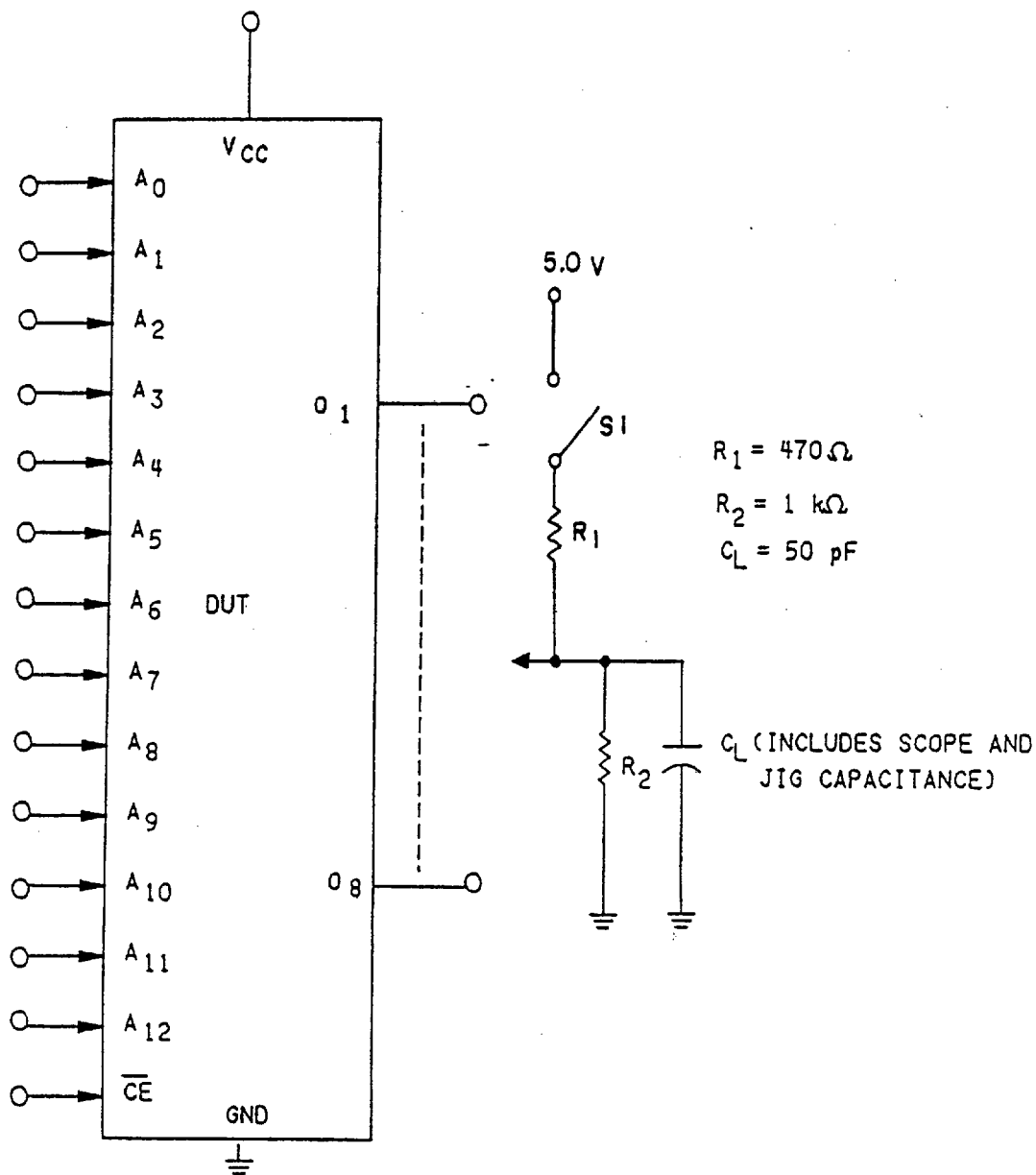
Word number	CE	Address												Data									
		A ₁₂	A ₁₁	A ₁₀	A ₉	A ₈	A ₇	A ₆	A ₅	A ₄	A ₃	A ₂	A ₁	A ₀	O ₈	O ₇	O ₆	O ₅	O ₄	O ₃	O ₂	O ₁	
NA	L	X	X	X	X	X	X	X	X	X	X	X	X	X	L	L	L	L	L	L	L	L	L
	H	X	X	X	X	X	X	X	X	X	X	X	X	X	OC	OC	OC	OC	OC	OC	OC	OC	OC

NOTES:

1. NA = Not applicable.
2. X = Input may be high level, low level, or open circuit.
3. OC = Open circuit (high resistance output).
4. Program readout can only be accomplished with enable input at low level.
5. The outputs for all unprogrammed devices are high for circuit E and circuit F.

FIGURE 2. Truth table (unprogrammed).

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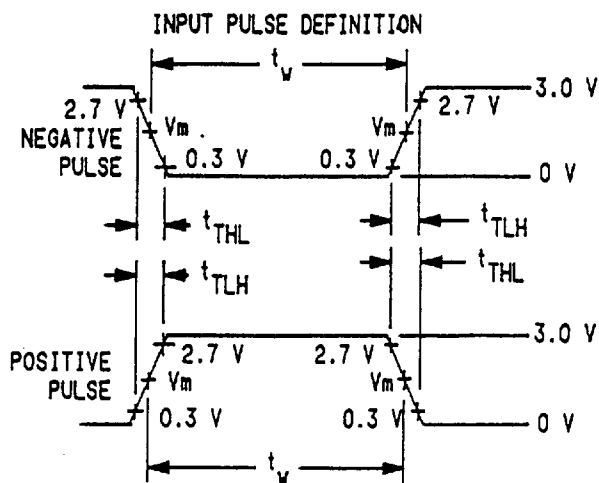


NOTE: Switch S₁ open for V_{OH} to three-state and three-state to V_{OH} transitions, close for all other tests.

FIGURE 4. Switching time test circuits.

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Circuit c



Input characteristics				
V _m	Rep rate	Pulse width	t _{TLH}	t _{THL}
1.5 V	1 MHz	500 ns	≤ 5 ns	≤ 5 ns

FIGURE 4. Switching time test circuits - Continued.

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Circuit C

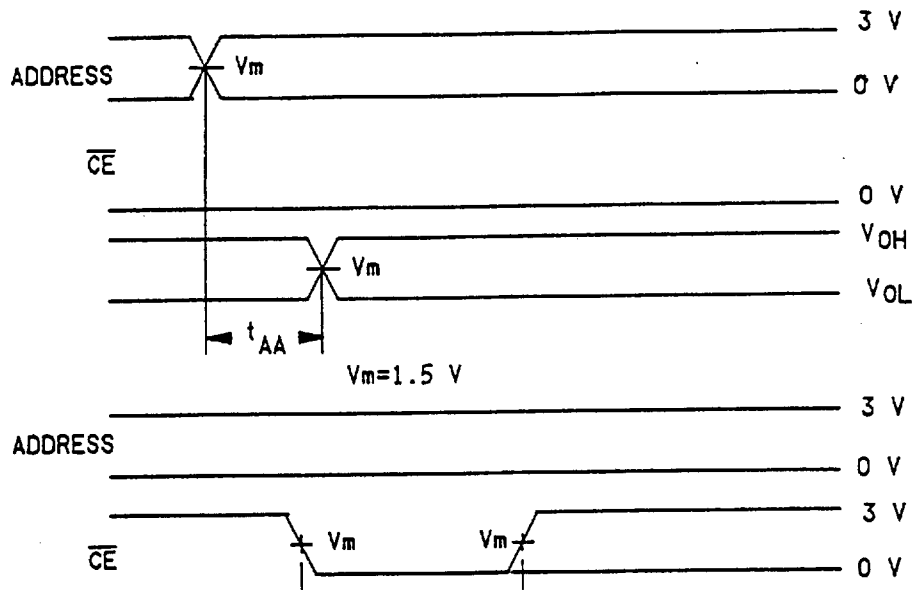


FIGURE 4. Switching time test circuits - Continued.

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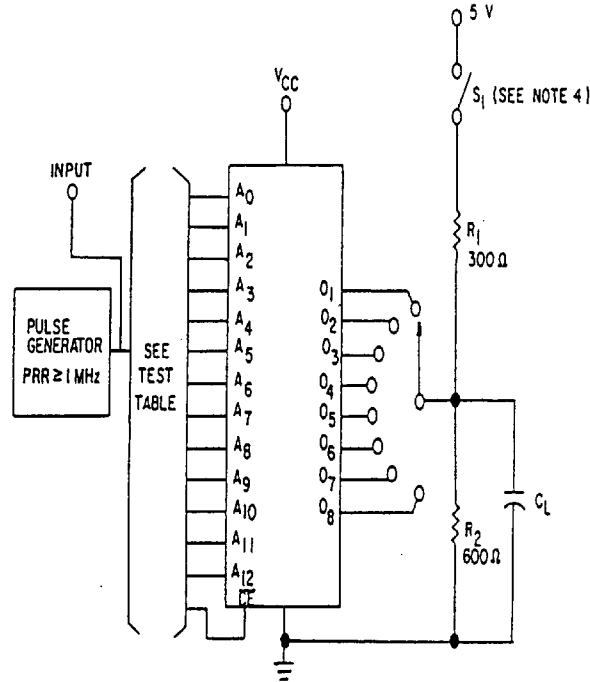
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A

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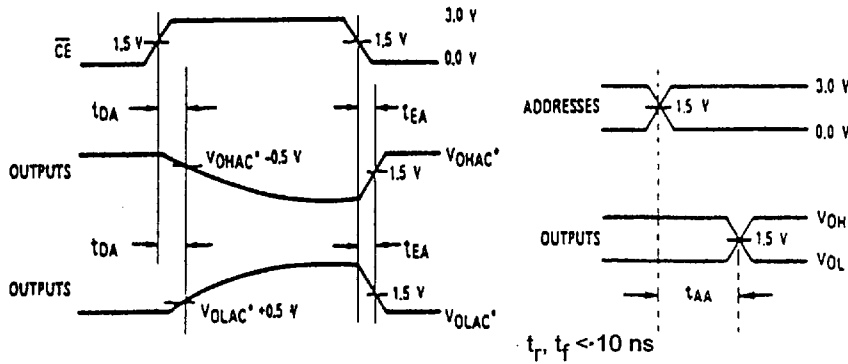
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Circuit E, F



NOTES:

1. Test table for devices programmed in accordance with an altered item drawing may be replaced by the equivalent tests which apply to the specific program configuration of the resulting read-only memory.
2. $C_L = 30$ pF minimum ($C_L = 5$ pF for t_{DA}), including jig and probe capacitance; $R_1 = 300\Omega$; and $R_2 = 600\Omega$.
3. Outputs may be under load simultaneously.
4. Switch S_1 open for V_{OH} to three-state and three-state to V_{OH} transitions, close for all other tests.



* V_{OLAC} and V_{OHAC} are the measured output voltage levels while enabled.

FIGURE 4. Switching time test circuits - Continued.

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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)	---
Final electrical test parameters (method 5004) for unprogrammed devices	1*, 2, 3, 7*
Final electrical test parameters (method 5004) for programmed devices	1*, 2, 3, 7*, 8A, 8B, 9
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

- 1/ *PDA applies to subgroups 1 and 7.
 2/ Subgroups 7 and 8 shall consist of verifying the
 pattern specified or the truth table (see figure 2).
 3/ ** See 4.3.1c.

4.4 Programming procedures. The programming procedures shall be as specified by the device manufacturer (see 6.7) and shall be available upon request.

5. PACKAGING

5.1 Packaging requirements. The requirements for packaging shall be in accordance with MIL-PRF-38535, appendix A.

6. NOTES

6.1 Intended use. Microcircuits conforming to this drawing are intended for use for Government microcircuit applications (original equipment), design applications, and logistics purposes.

6.2 Replaceability. Microcircuits covered by this drawing will replace the same generic device covered by a contractor-prepared specification or drawing.

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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-973 using DD Form 1692, Engineering Change Proposal.

6.4 Record of users. Military and industrial users shall inform Defense Supply Center Columbus when a system application requires configuration control and the applicable SMD. DSCC 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 DSCC-VA, telephone (614) 692-0525.

6.5 Comments. Comments on this drawing should be directed to DSCC-VA, Columbus, Ohio 43216-5000, or telephone (614) 692-0674.

6.6 Approved sources of supply. Approved sources of supply are listed in MIL-HDBK-103. The vendors listed in MIL-HDBK-103 have agreed to this drawing and a certificate of compliance (see 3.6 herein) has been submitted to and accepted by DSCC-VA.

6.7 Circuit/programming procedure letter.

<u>Circuit/programming procedure letter</u>	<u>Vendor CAGE number</u>
F	07933
D	1/
C	18324
I	1/
E	1/

1/ Not available from an approved source.

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STANDARD MICROCIRCUIT DRAWING SOURCE APPROVAL BULLETIN

DATE: 96-05-12

Approved sources of supply for SMD 82009 are listed below for immediate acquisition only and shall be added to MIL-HDBK-103 during the next revision. MIL-HDBK-103 will be revised to include the addition or deletion of sources. The vendors listed below have agreed to this drawing and a certificate of compliance has been submitted to and accepted by DSCC-VA. This bulletin is superseded by the next dated revision of MIL-HDBK-103.

Standardized military drawing PIN <u>1/</u> <u>2/</u>	Vendor CAGE number	Vendor similar PIN <u>3/</u>	Replacement military specification PIN
8200901JA	<u>4/</u>	93Z665DMQB65	M38510/21201BJX
	18324 <u>4/</u> 07933	82HS641A/BJA AM27S49/BJA R29791DM/883B	
8200901KX	<u>4/</u>	AM27S49/BKA	
8200901LA	<u>4/</u> 07933	93Z667DMQB65 R29791SM/883B	
8200901ZX	<u>4/</u>	AM27S49/BUA	
82009013A	18324 <u>4/</u>	82HS641A/B3X AM27S49/B3A	
	<u>4/</u>	93Z665LMQB65	
8200901XA	07933	R29791FM/883B	
8200902JA	<u>4/</u>	93Z665DMQB55	M38510/21202BJX
	18324 <u>4/</u>	82HS641A/BJA AM27S49A/BJA	

See footnotes at end of table.

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Standardized military drawing PIN <u>1/</u>	Vendor CAGE number	Vendor similar PIN <u>3/</u>	Replacement military specification PIN
8200902LX	<u>4/</u>	93Z667DMQB55	M38510/21202BLX
8200902KX	<u>4/</u>	AM27S49A/BKA	
8200902ZX	<u>4/</u>	AM27S49A/BUA	
82009023A	<u>4/</u>	93Z665LMQB55	M38510/21202B3X
	18324 <u>4/</u>	82HS641A/B3X AM27S49A/B3A	
8200903JA	<u>4/</u>	93Z665DMQB45	M38510/21204BJX
	18324	82HS641B/BJA	
8200903LX	<u>4/</u>	93Z667DMQB45	M38510/21204BLX
82009033A	<u>4/</u>	93Z665LMQB45	M38510/21204B3X
	18324	82HS641B/B3A	

- 1/ Military drawing and DSCC drawing PIN's formerly had a programming procedure letter within the military drawing PIN: these parts are interchangeable with parts that are now marked without the programming procedure letter within the military drawing number, i.e. 82009C1JX is interchangeable with 8200901JX.
- 2/ The lead finish shown for each PIN representing a hermetic package is the most readily available from the manufacturer listed for that part. The device manufacturers listed herein are authorized to supply alternate lead finishes "A", "B", or "C" at their discretion. Contact the listed approved source of supply for further information.
- 3/ Caution. Do not use this number for item acquisition. Items acquired to this number may not satisfy the performance requirements of this drawing.
- 4/ Not available from an approved source.

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STANDARDIZED MILITARY DRAWING SOURCE APPROVAL BULLETIN - Continued.

<u>Vendor CAGE number</u>	<u>Vendor name and address</u>	<u>Circuit/ programming procedure letter</u>	<u>Fusible link</u>
07933	Raytheon Company 350 Ellis Street P.O. Box 7016 Mountain View, CA 94039-7016	F	NiCr
18324	Signetics Corporation 4130 South Market Court Sacramento, CA 95834	C	Zapped vertical emitter

The information contained herein is disseminated for convenience only and the Government assumes no liability whatsoever for any inaccuracies in this information bulletin.

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