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5962-E1319

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

1. SCOPE  1.1 Scope. This drawing demoith 1.2.1 of MIL-STD-883, "Pro	scribes device requ ovisions for the us	irements for class B mi e of MIL-STD-883 in con	crocircuits in accordance junction with compliant
non-JAN devices".			
1.2 Part number. The comple	ete part number sha	ll be as shown in the f	ollowing example:
<u>5962-86805</u>	01	<u> </u>	<u>*</u>
Drawing number	Device type (1.2.1)	Case outline (1.2.2)	Lead finish per MIL-M-38510
1.2.1 Device types. The dev	vice types shall id	entify the circuit func	tion as follows:
Device type Ge	eneric number	Circuit function	Access time
01 02 03 04	27C1024 27C1024 27C1024 27C1024	64K x 16-bit UVEPRO 64K x 16-bit UVEPRO 64K x 16-bit UVEPRO 64K x 16-bit UVEPRO	M 250 ns M 200 ns
1.2.2 <u>Case outlines</u> . The ca as follows:	ase outlines shall	be as designated in app	endix C of MIL-M-38510, and
Outline letter		Case outline	
Q D. X C.	-5 (40-lead, 2.096" -5 (44-terminal, .6	x .620" x .225"), dual 62" x .662" x .120"), s	-in-line package $rac{1}{2}/$ quare chip carrie $\overline{r}$ package $\overline{1}/$
1.3 Absolute maximum ratings	<u>.</u> .		
Storage temperature range Input voltages with responding to the Voltage on pin Ag with responding to the Vpp supply voltage with a Power dissipation (Pp) 2/Lead temperature (solder: Thermal resistance, junction temperature (Tj. Data retention Endurance	ect to ground espect to ground espect to ground ing, 10 seconds) tion-to-case (0jc)		o V <sub>CC</sub> +0.5 V dc o +13.5 V dc o +13.5 V dc 8510, appendix C
1.4 Recommended operating co	onditions.		
Case operating temperatu Supply voltage range (Y <sub>CC</sub>	re range (T <sub>C</sub> )		25°C o 5.5 V dc
1/ Lid shall be transparent to 2/ Must withstand the added Pl 3/ Maximum junction temperatu	o permit ultraviole o due to short-circ re may be increased	t light erasure. uit test; e.g., Ios. to +175°C during burn-	in and steady-state life.

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### 2. APPLICABLE DOCUMENTS

2.1 Government specification and standard. Unless otherwise specified, the following specification and standard, 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.

(Copies of the specification and standard 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.
  - 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.
- 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 inspection (see 4.3), the devices shall be programmed by the manufacturer prior to test in a checkerboard or similar pattern (a minimum of 50 percent of the total number of bits programmed) or to any altered item drawing pattern which includes at least 25 percent of the total number of bits programmed.
- 3.2.2.2 <u>Programmed devices</u>. The requirements for supplying programmed devices are not part of this drawing.
  - 3.2.3 Case outlines. The case outlines shall be in accordance with 1.2.2 herein.
- 3.3 Electrical performance characteristics. Unless otherwise specified, the electrical performance characteristics are as specified in table I and shall apply over the full case operating temperature range.
- 3.4 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 6.4 herein.

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TABLE I. Electrical performance characteristics. Test Symbol . Conditions Group A ! Device Unit Limits -55°C < T<sub>C</sub> < +125°C V<sub>SS</sub> = 0 V; 4.5 V < V<sub>CC</sub> < 5.5 V unless otherwise specified subgroups types Min Max VIN = 0 V to 5.5 V Input leakage current | ILI 1, 2, 3 A11 -5 +5 μА Output leakage -10 +10 ILO 1/ !  $V_{OUT} = 0 V to 5.5 V$ 1, 2, 3 **A11** μΑ current 1, 2, 3 Operating current I<sub>CC1</sub>  $V_{CC} = V_{PP} = 5.5 V$ A11 60 mΑ  $\begin{array}{l} \overline{\text{CE}} = \overline{\text{OE}} = \text{V}_{IL} \\ \text{O}_{0-15} = \text{O mA} \\ \text{f} = \text{1/t}_{\text{AVQV}} \text{ (maximum)} \end{array}$ Standby current (TTL inputs) mΑ  $V_{CC} = 5.5 V$ 1, 2, 3 A11 1.0 ICC2 CE = VIH Standby current (CMOS inputs) 120 μA  $V_{CC} = 5.5 \text{ V}$ 1, 2, 3 All I<sub>CC3</sub> CE = V<sub>CC</sub> ±0.3 V Vpp supply current
 (read)  $V_{PP} = 5.5 V$ 100 1, 2, 3 All. μА Ipp Input low voltage (TTL) 1, 2, 3 A11 -0.1 0.8 ٧ VIL 2/ 3/ ٧ Input high voltage 1, 2, 3 A11 2.0 V<sub>CC</sub> +0.5 VIH 2/ (TTL) 3/  $I_{OL}$  = 2.1 mA  $V_{IL}$  = 0.8 V,  $V_{IH}$  = 2.0 V ٧ 1, 2, 3 A11 0.45 Output low voltage VOL  $I_{OH}$  = -400  $\mu$ A  $V_{IH}$  = 2.0 V,  $V_{IL}$  = 0.8 V ٧ 1, 2, 3 All 2.4 Output high voltage VOH -200 +200 1, 2, 3 mΑ Output short-circuit  $V_0 = 0 V$ All IOS 3/  $V_{IN} = 0 V, T_{C} = +25^{\circ}C$ CIN 5/ 4 A11 25 рF Input capacitance See 4.3.1c See footnotes at end of table. **SIZE** STANDARDIZED A 5962-86805 **MILITARY DRAWING** DEFENSE ELECTRONICS SUPPLY CENTER **REVISION LEVEL** SHEET DAYTON, OHIO 45444 4

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TABLE I. <u>Electrical performance characteristics</u> - Continued. Test Symbol Conditions Group A Device Limits Unit Conditions  $-55^{\circ}C \leq T_C \leq +125^{\circ}C$   $V_{SS} = 0^{\circ}V;$   $4.5 V \leq V_{CC} \leq 5.5 V$ unless otherwise specified subgroups types Min | Max  $V_{OUT} = 0 V, T_{C} = +25^{\circ}C$ f = 1 MHz рF Output capacitance C<sub>OUT</sub> 5/ 4 **A11** 25 See 4.3.1c Functional tests See 4.3.1e 7, 8 A11  $\overline{CE} = \overline{OE} = V_{1L} \underline{6}/$ See figures 3 and 4 Address to output 9, 10, 11 01 LAVQV ns delay as applicable 02 250 03 200 04 170  $\overline{OE} = V_{IL} \underline{6}/See figures 3 and 4$ CE to output delay 9, 10, 11 01 300 tELOV ns as applicable 02 250 03 200 04 170 OE to output delay  $\overline{CE} = V_{IL} \underline{6}/See figures 3 and 4$ **tOLQV** 9, 10, 11 01 120 ns as applicable 100 02 03 75 04 65 CE and OE high to See figures 3 and 4 9, 10, 11 tEHQZ 01 toHOZ output float as applicable 02 60 03 04 50 t<sub>AXQX</sub> Output hold from 0 19, 10, 111 A11 ns address CE or OE whichever occurred first See footnotes at top of next page. SIZE **STANDARDIZED** Α 5962-86805 **MILITARY DRAWING DEFENSE ELECTRONICS SUPPLY CENTER** REVISION LEVEL SHEET DAYTON, OHIO 45444 5

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Connect all address inputs and  $\overline{\text{OE}}$  to  $V_{IH}$  and measure  $I_{LO}$  with the output under test connected to Vour. Test for all input and control pins.

May not be tested, but shall be guaranteed to the limits specified in table I.

Tested initially and after any design changes that affect this parameter, and therefore shall be guaranteed to the limits specified in table I.

All pins not being tested shall be grounded.

Equivalent ac test conditions (actual load conditions vary by tester): Output load = 1 TTL gate and  $C_L = 100$  pF. Input rise and fall times < 20 ns. Input pulse levels: 0.45 V and 2.4 V.

Timing measurement reference levels:

Inputs = 0.8 V and 2.0 V Outputs = 0.8 V and 2.0 V

- 3.5 Processing EPROMs. All testing requirements and quality assurance provisions herein shall be satisfied by the manufacturer prior to delivery.
- 3.5.1 Erasure of EPROMs. When specified, devices shall be erased in accordance with the procedure and characteristics specified in 4.4 herein.
- 3.5.2 Programmability of EPROMs. When specified, devices shall be programmed to the specified pattern using the procedures and characteristics specified in 4.5 herein.
- 3.5.3 <u>Verification of erasure and/or programmability of EPROMs</u>. When specified, devices shall be verified as either programmed to the specified pattern or erased. As a minimum, verification shall consist of performing a functional test (subgroup 7) to verify that all bits are in the proper state. Any bit that does not verify to be in the proper state shall constitute a device failure, and shall be removed from the lot.
- 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 6.4. The certificate of compliance submitted to DESC-ECS prior to listing as an approved source of supply shall state 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 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.
  - 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).

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Case outlines			4	01 through 04			
	Q	X	Case outlines	l Q	X		
Terminal number	Terminal	Symbol	Terminal number	   Terminal 	Symbol		
1	Vpp	NC I	23	A <sub>2</sub>	NC NC		
2	CE	l V <sub>PP</sub>	24	A <sub>3</sub>	A <sub>O</sub>		
3	1/015	CE	25	A4	, A <sub>1</sub>		
4	1/014	1/015	26	A <sub>5</sub>	A <sub>2</sub>		
5	1/013	1/014	27	A <sub>6</sub>	A3		
6	1/012	1 1/013	28	A7	A4		
7	1/011	1/012	29	A <sub>8</sub>	A <sub>5</sub>		
8		1/011	30	V <sub>SS</sub>	A <sub>6</sub>		
9		1 1/010	31	l Ag	A7		
10		1 1/009	32	A <sub>10</sub>	A8		
11		1/008	33	A <sub>11</sub>	NC NC		
12	I/0 <sub>07</sub>	I VSS	34	A <sub>12</sub>	l v <sub>ss</sub>		
13		I NC	35	A13	l Ag		
14	_	I I/0 <sub>07</sub>	36	A <sub>14</sub>	A <sub>10</sub>		
15		1 1/006	37	A <sub>15</sub>	A <sub>11</sub>		
16		1/005	38	NC NC	A <sub>12</sub>		
17		I/0 <sub>04</sub>	39	PGM	A <sub>13</sub>		
18	1/002	I I/0 <sub>03</sub>	40	Vcc	A14		
19   19	1/0 <sub>01</sub>	I/0 <sub>02</sub>	41		A <sub>15</sub>		
20	OE	1 1/001	42	<u></u>	NC		
20   21	l Ao	1 1/001	43		PGM		
22	A <sub>1</sub>	1 0E	44		V <sub>CC</sub>		

FIGURE 1. Terminal connections.

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	Pin function								
Mode	CE	Œ	PGR	Ag	Vpp	Outputs			
Read	L	L	X	X	х	Data out			
Output disable	L	H	X	X	X	High Z			
Standby	н	X	X	X	X	High Z			
Program	L	X	L	X	Vpp	Data in			
Program verify	L	L		X	Vpp	Data out			
Program inhibit	H	X	X	X	Vpp	High Z			
Auto select	L	L	X	٧H	j x	Code			

H = V<sub>IH</sub>
L = V<sub>IL</sub>
X = V<sub>IH</sub> or V<sub>IL</sub>
V<sub>H</sub> = 12.0 ±0.5 V

Vpp = 12.5 ±0.3 V

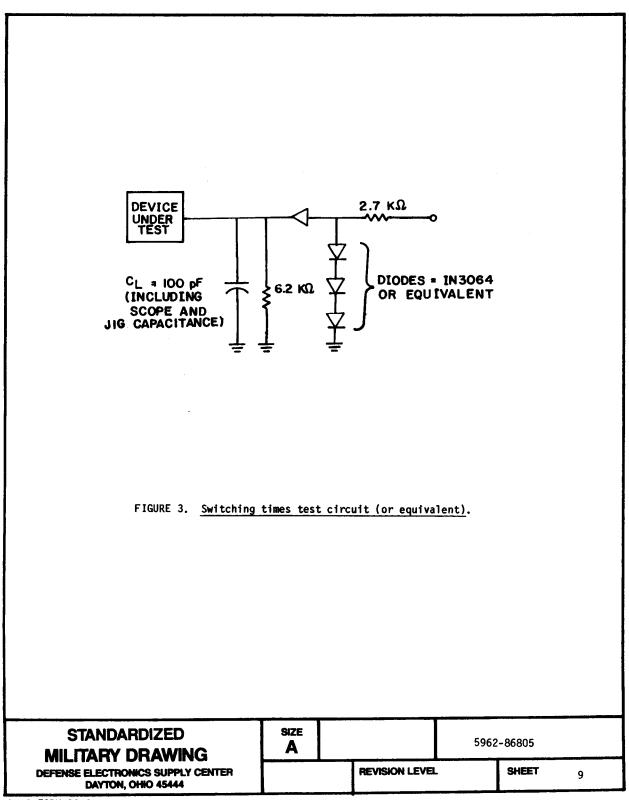
FIGURE 2. Truth table.

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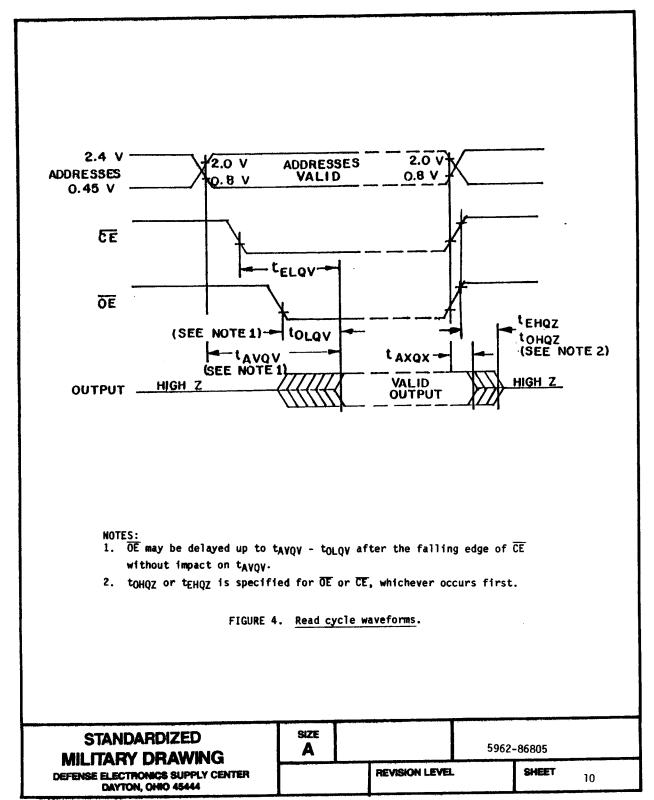
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- 4.2 <u>Screening.</u> Screening shall be in accordance with method 5004 of MIL-STD-883, and shall be conducted on all devices prior to quality conformance inspection. The following additional criteria shall apply:
  - a. Burn-in test, method 1015 of MIL-STD-883.
    - (1) Test condition D or E 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.
  - c. A data retention stress test shall be included as part of the screening procedure and shall consist of the following steps performed in the listed sequence.

# Margin test method A. 1/

- (1) Program at +25°C with a greater than 95 percent pattern (example, diagonal 1's) (see 3.5.2).
- (2) Unbiased bake for 24 hours at +175°C.
- (3) Test at  $^{+75}^{\circ}$ C (see 3.5.3), including a margin test at  $V_m = 6.0$  V and loose timing (i.e.,  $t_{AVOV} = 1 \mu s$ ).
- (4) Erase (see 3.5.1).
- (5) Program at  $\pm 25^{\circ}$ C with a 50 percent pattern (example, checkerboard bar) (see 3.5.2). (Programmed with checkerboard at wafer sort.)
- (6) Test at  $T_C$  = +130°C (see 3.5.3), including a margin test at  $V_m$  = 6.0 V and loose timing (i.e.,  $t_{AVQV}$  = 1  $\mu s$ ).
- (7) Burn-in (see 4.2a).
- (8) Test at  $T_C$  = +25°C (see 3.5.3), including a margin test at  $V_m$  = 6.0 V and loose timing (i.e.,  $t_{AYOV}$  = 1  $\mu s$ ).
- (9) Test at  $T_C$  = +130°C (see 3.5.3), including a margin test at  $V_m$  = 6.0 V and loose timing (i.e.,  $t_{AVQV}$  = 1  $\mu s$ ).
- (10) Test at  $T_C$  = -55°C (see 3.5.3), including a margin test at  $V_m$  = 6.0 V and loose timing (i.e.,  $t_{AVOV}$  = 1  $\mu s$ ).
- (11) Erase (see 3.5.1). Devices may be submitted for groups A, B, C, and D testing prior to erasure provided the devices have been 100 percent seal tested in accordance with method 5004 of MIL-STD-883.
- (12) Verify erasure at +25°C (see 3.5.3).
- 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.

1/ Steps 1 through 4 may be performed at wafer level.

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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 15 devices, all input and output terminals tested and no failures.
- d. All devices selected for testing shall have the EPROM programmed with a checkerboard pattern or equivalent. After completion of all testing, the devices shall be erased and verified (except devices submitted for groups B, C, and D testing).
- e. Subgroups 7 and 8 shall consist of verifying the EPROM pattern specified in 4.3.1d.

# 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.
  - Test condition D or E 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.
- c. A reprogrammability test shall be added to group C inspection prior to performing the steady-state life test (see 4.3.2b). The devices to be submitted to the steady-state life testing shall be subjected to the following tests and examinations. Each device in the sample shall be subjected to a minimum 50-program and erase cycles.
  - All devices selected for testing shall be programmed with a checkerboard pattern or equivalent.
  - (2) Verify patterns (see 3.5.3).
  - (3) Erase (see 3.5.1).
  - (4) Verify pattern erasure (see 3.5.3).
- 4.4 <u>Erasing procedure</u>. The recommended erasure procedure for the device is exposure to shortwave ultraviolet light which has a wavelength of 2537 Angstroms (Å). The integrated dose (i.e., UV intensity x exposure time) for exposure should be a minimum of 15 Ws/cm<sup>2</sup>. The erasure time with this dosage is approximately 25 minutes using an ultraviolet lamp with a 12000 uW/cm<sup>2</sup> power rating. The device should be placed within 1 inch of the lamp tubes during erasure. The maximum integrated dose the device can be exposed to without damage is 7258 Ws/cm<sup>2</sup> (1 week at 12000 uW/cm<sup>2</sup>). Exposure of EPROMs to high intensity UV light for long periods may cause permanent damage.
- 4.5 Programming procedures. The programming procedures shall be as specified by the device manufacturer.

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TABLE	II.	Electrical	test	rec	uirements.	1/	2/	3/	4/	

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*,8,9, 10,11
Group A test requirements   (method 5005) <u>5</u> /	1,2,3,4***,7,8, 9,10**,11**
   Groups C and D end-point   electrical parameters   (method 5005)	2,3,7,8

1/ (\*) indicates PDA applies to subgroups 1 and 7. Z/ (\*\*\*) see 4.3.1c. 3/ Any subgroups at the same temperature may be

- combined when using a multifunction tester.
- (\*\*) indicates that subgroups 10 and 11, if not tested, shall be guaranteed to the specified limits in table I.
- Subgroups 7 and 8 shall consist of verifying the applicable data pattern, see 4.3.1e.

### 5. 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 Replaceability. Microcircuits covered by this drawing will replace the same generic device covered by a contractor-prepared specification or drawing.
- 6.3 Comments. Comments on this drawing should be directed to DESC-ECS, Dayton, Ohio 45444, or telephone 513-296-5375.

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6.4 Approved source of supply. An approved source of supply is listed herein. Additional sources will be added as they become available. The vendor listed herein has agreed to this drawing and a certificate of compliance (see 3.5 herein) has been submitted to DESC-ECS.

Military drawing part number	Vendor CAGE number	Yendor   similar part   number <u>1</u> /	Replacement military specification part number
5962-8680501QX	34335	   AM27C1024-300/BQA	
5962-86 <b>8</b> 0501XX	34335	   AM27C1024-300/BUA	
5962-8680502QX	34335	   AM27C1024-250/BQA	
5962-8680502XX	34335	   AM27C1024-250/BUA	
5962-8680503QX	34335	AM27C1024-200/BQA	
5962-8680503XX	34335	   AM27C1024-200/BUA 	
5962-8680504QX	34335	   AM27C1024-170/BQA	
5962-8680504XX	34335	AM27C1024-170/BUA	

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

Vendor CAGE number Vendor name and address Margin test method

34335

Advanced Micro Devices 901 Thompson Place Sunnyvale, CA 94086

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