查询"5962-89690013A"供应商

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DESC FORM 193 SEP 87

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

 SCOPE 1.1 Scope. This drawing describes device requirements for class B microcircuits in accordance with $1.\overline{2.1}$ 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: 5962-89690 Drawing number Device type Case outline Lead finish per (1.2.1)(1.2.2)MIL-M-38510 1.2.1 Device types. The device types shall identify the circuit function as follows: Generic number Device type Circuit function Access time 01 See 6.6 2K X 8 CMOS SRAM 25 ns 02 See 6.6 2K X 8 CMOS SRAM 20 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 D-3 (24-lead, 1.290" x .610" x .225"), dual-in-line package
F-6 (24-lead, .640" x .420" x .090"), flat package
D-9 (24-lead, 1.280" x .310" x .200"), dual-in-line package
C-12 (32-terminal, .560" x .458" x .120"), rectangular chip carrier package
Figure 1 (24-terminal, .308" x .408" x .078"), rectangular chip carrier package
C-11 (28-terminal, .560" x .358" x .120"), rectangular chip carrier package
C-4 (28-terminal, .460" x .460" x .100"), square chip carrier package K Y C-4 (28-terminal, .460" x .460" x .100"), square chip carrier package 1.3 Absolute maximum ratings. 1/ -0.5 V dc to 7 V dc 0.5 V to V_{CC} + 0.5 V -0.5 V dc to 7 V dc 20 mA -65°C to +150°C 864 mW +275°C +175°C Lead temperature (soldering, 10 seconds) - - - - -Thermal resistance, junction-to-case (θ_{JC}): Cases J, K, L, X, Z, and 3 - - - - - - - -See MIL-M-38510, appendix C Case Y - - - - - -20°C/W All voltages are with respect to GND. V_{IL} (minimum) of -3 V dc for short pulse durations of 20 ns or less. Prolonged operation at V_{IL} levels below -1 V dc will result in excessive currents that may damage the device.

STANDARDIZED	SIZE		
MILITARY DRAWING	Α	<u></u>	5962-89690
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DESC FORM 193A **SEP 87**

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1.4 Recommended operating conditions.

Supply voltage range (V $_{\rm CC}$) - - - - - - - - - - 4.5 V dc minimum to 5.5 V dc maximum High level input voltage range (V $_{\rm IH}$) - - - - - - - 2.2 V dc minimum to V $_{\rm CC}$ + 0.5 V dc maximum

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 <u>Design</u>, 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 2.
 - 3.2.2 <u>Truth table</u>. 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.

 $^{3/}$ V_{IL} (minimum) of -3 V dc for short pulse durations of 20 ns or less. Prolonged operation at V_{IL} levels below -1 V dc will result in excessive currents that may damage the device.

STANDARDIZED MILITARY DRAWING DEFENSE ELECTRONICS SUPPLY CENTER DAYTON, OHIO 45444 SIZE A 5962-89690 REVISION LEVEL SHEET 3

DESC FORM 193A SEP 87

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	TABLE	1. Elec	trical per	Tormance	characte	ristics.				
Test	Symbol	1 4.	Condi: 5°C < TC : 5 V < VCC VSS = 0 s otherwi: 1/ 2/ 3/	<pre>+125°C < 5.5 V V se specification</pre>	su 	Group A ubgroups			imits Max	Un1
Operating supply current	I CC1	tavav = 1V _{CC} = 5	tavav = tavav (minimum), V_{CC} = 5.5 V, \overline{CE} = V_{IL} , all other inputs at \overline{V}_{IL}				01	1	135	mA
Standby power supply current TTL	I _{CC2}	CE > VI O M	H, all oth	ner input / _{CC} = 5.	ts	1,2,3	01		45	mA
Standby power supply current CMOS	IIcc3		CC -0.2 V .5 V, all or > (V _C	, f = 0 other i	MHz,	1,2,3	A11		20	mA
Input leakage current, any input	IIILK	V _{CC} = 5	.5 V, V to 5.5	٧		1,2,3	A11	[-10	10	μA
Off-state output leakage current	IOLK	V _{CC} = 5 V _{IN} = 0	.5 V, V to 5.5	v	[1,2,3	A11	-10	10	 μΑ
Output high voltage	У ОН		-4.0 mA, \ .8 V, VIH	/ _{CC} = 4.5 = 2.2 V	5 V,	1,2,3	A11	2.	4	į v
Output low voltage	[V _{OL}	(AIT = 0 (IOAL =	8.0 mA, V ₍ .8 V, V _{IH}	CC = 4.5 = 2.2 V	V, !	1,2,3	 A11 		0.4	V
Input capacitance <u>5</u> /	IC IN	V _{IN} = 0 f = 1.0 see 4.3	MHz, TA :	. +25°C,		4	(A11		8.0	pF
Output capacitance 5/	C _{OUT}		MHz, TA =	. +25°C,	1	4	A11	1	8.0	i pF
Read cycle time	tayay	1			S	9,10,11	 01 02	25		l ns
See footnotes at end of t	able.									<u> </u>
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句"5962-89690013A"供应商 TABLE I. Electrical performance characteristics - Continued. Test Symbol | Conditions lunit Group A | Device Limits $-55^{\circ}C \leq T_{C} \leq +125^{\circ}C$ $4.5 \text{ V} \leq \text{V}_{CC} \leq 5.5 \text{ V}$ $\text{V}_{SS} = 0 \text{ V}$ unless otherwise specified isubgroupsi types Min | Max 1/2/3/4/ Address access 9,10,11 TAVQV 01 25 l ns time 02 20 Output hold after address!tAVQX 9,10,11 01 0 ns change 02 Output enable to output active $\underline{5}/\underline{6}/$ 9,10,11 0 01 toLox ns 02 0 Output enable access time $|t_{OLOV}|$ 9,10,11 01 16 | ns 02 15 Chip enable to output 9,10,11 01 0 | t_{ELQX} ns active <u>5/ 6/</u> 02 0 Chip enable access time 9,10,11 01 25 t_{ELQV} ns 02 20 Chip enable to output in high Z <u>5/ 6/</u> 9,10,11 01 15 ns **LE**HQZ 02 Write recovery time 9,10,11 0 ! tWHAY 01 ns 02 0 Chip enable to t_{ELWH} 9,10,11 01 20 ns end-of-write 02 15 Address valid to 9,10,11 01 20 ns HWVA³ end-of-write 02 15 Address to WE setup time |tavwL 9,10,11 01 0 ns 02 0 Address to CE setup time | tayeL 9,10,11 | 01,02 0 ns See footnotes at end of table.

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SIZE A			5962-89690	
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DESC FORM 193A SEP 87

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IADEL	I. LIEC	trical performance characterist	cics - cont	maeu.	·		
Test	 Symbol	Conditions	Group A		 Li	 Unit	
	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			types 	Min	Max Max 	1
Output enable to output in high Z 5/6/	toHQZ		9,10,11	01		16	ns
in high Z 5/6/				02	<u> </u>	15	
Write enable pulse width	t _{WLWH}		9,10,11	01	20	<u> </u>	l ∫ ns
				02	15	! !	
Data setup to end-of-write	t _{DVWH}		9,10,11	01	1 15	! !	l ∫ns
	1			02	12		}
Data hold after end-of-write	twHDX		9,10,11	01	0		ns
Cita-O7-W11Ce			[02	0	! !	! !
Chip-enable pulse width during write	t _{ELEH}		9,10,11	01	1 20		l ns
			<u> </u>	02	15		
Write enable pulse setup	tWLEH		9,10,11	01	20	1	l l ns
V I IIIC				02	15		
Write enable to output in high Z 5/6/	twLQZ		9,10,11	01		15	l ns
g,, <u></u> <u></u> <u></u>			Ì	02	1	1 15	1

All voltages referenced to V_{SS} .

Negative undershoots to a minimum of -0.3 V are allowed with a maximum of 50 ns pulse width.

AC measurements assume transition time < 5 ns and input levels are from V_{SS} to 3.0 V.

Output load is specified on figure 4. Reference timing levels are at 1.5 V.

butput load is specified on figure 4. Reference timing levels are at 1.5 v.

4/ For timing waveforms, see figure 4.

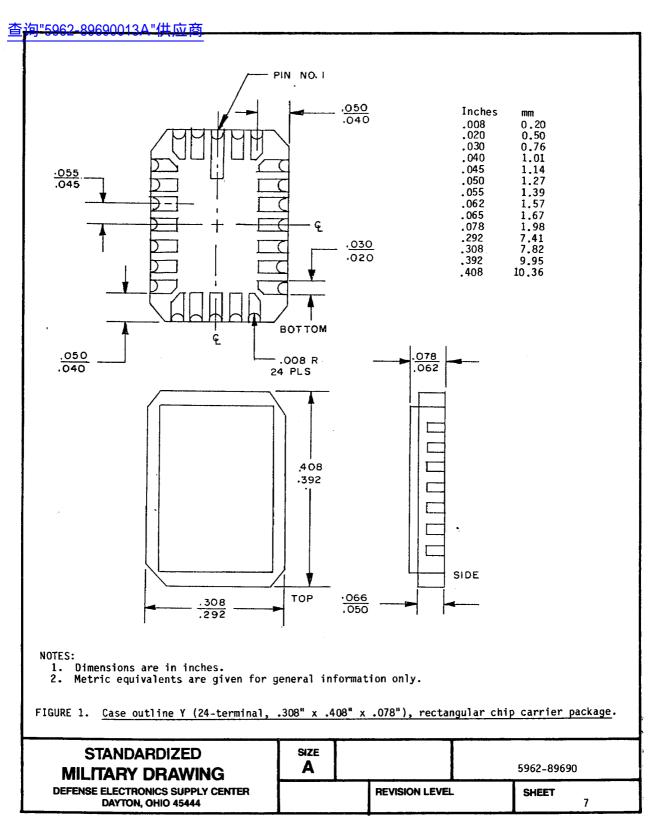
Tested initially, and after any design or process change which could affect these parameters, and therefore shall be guaranteed to the limits specified in table I. Transition measured ±500 mV from steady-state value.

6/ This parameter measured ±500 mV from steady-state output voltage. Load capcitance is 5.0 pF, see figure 4.

STANDARDIZED MILITARY DRAWING	SIZE A		5962-89690	
DEFENSE ELECTRONICS SUPPLY CENTER DAYTON, OHIO 45444		REVISION LEVE	SHEET 6	

DESC FORM 193A SEP 87

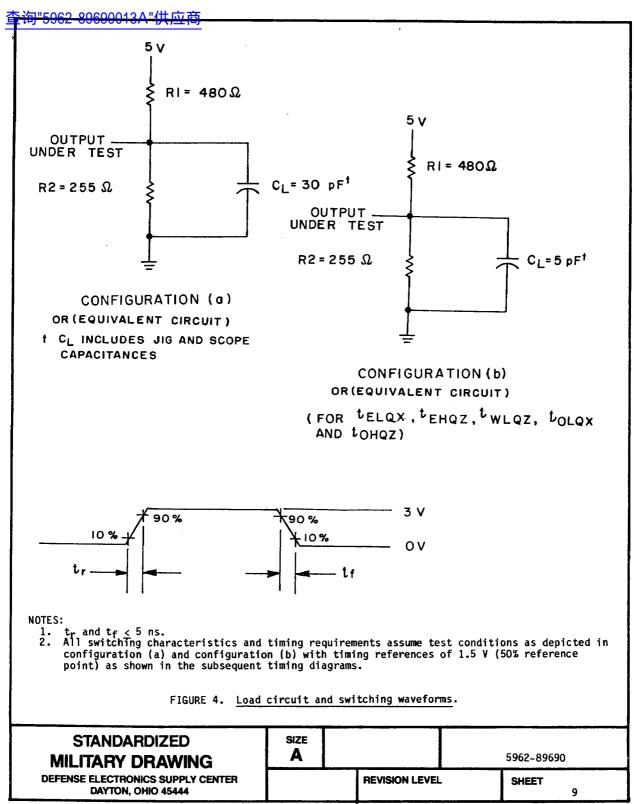
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Device types		01 and 0		_							
Case outlines	J,K,L,Y	3,Z	l X	_ļ							
Terminal number	Terr	ninal sy	mbol								
1	A7	 A7	I NC	ļ							
2	A6	A6	NC	ŀ							
3	A5	A5	NC	į							
4	l AA	A4	A7								
5	i A3	A3	A6	Ì							
6	A2	A2	A5	-							
7	A1	NC	A4	į							
8	AO	NC	A3								
9	1/0 0	A1	A2	į							
10	1/0 1	AO	A1	i I							
11	1/02	I/O 1	AO .	į							
12	VSS	I/O 2	NC	 							
13	1/0 3	1/0 3	1/0 0	į							
14	1/0 4	VSS	1/0 1	.							
15	1/0 5	1/04	1/0 2	!							
16	1/0 6	1/0 5	VSS								
17	1/0 7	1/06	NC	j							
18	CE	1/07	1/0 3	i							
19	A10	1/08	1/0 4	ŀ							
20	ŌĒ	CE	1/0 5	;							
21	WE	NC	1/0 6	ij							
22	A9	NC	1/0 7	,							
23	1 A8	A10	CE	į							
24	VCC	ŌĒ	A10	l I							
25	ļ	WE	<u>DE</u>	į							
26		A9	WE	1							
27	ļ	A8	I NC]	Ir	puts		1/0	Ţ	Mode	Power
28	\	Vcc	A9			ישר ה		I/O 0 - I/O		noue	l
29			A8		CE	ME O	_	170 0 - 170			
30	¦		NC	1	H	X X		HI-Z Data output		andby ad	Standby Active
31	į		l NC		L	H L		HI-Z		ead	Active
32	<u> </u>		VCC	_	L	L X		Data input	Wr	ite	Active
FIGURE 2. To	erminal c	onnectio	ns.				ı	FIGURE 3. <u>Tr</u>	uth t	able.	
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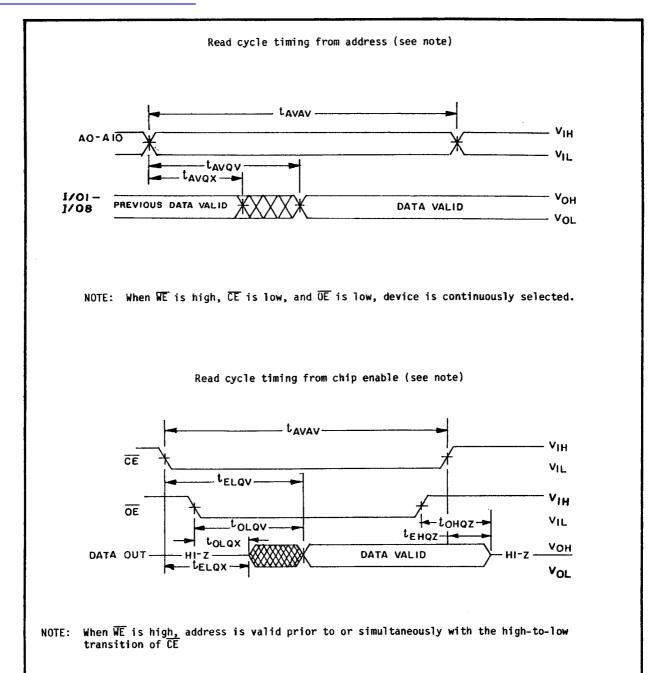


FIGURE 4. Load circuit and switching waveforms - Continued.

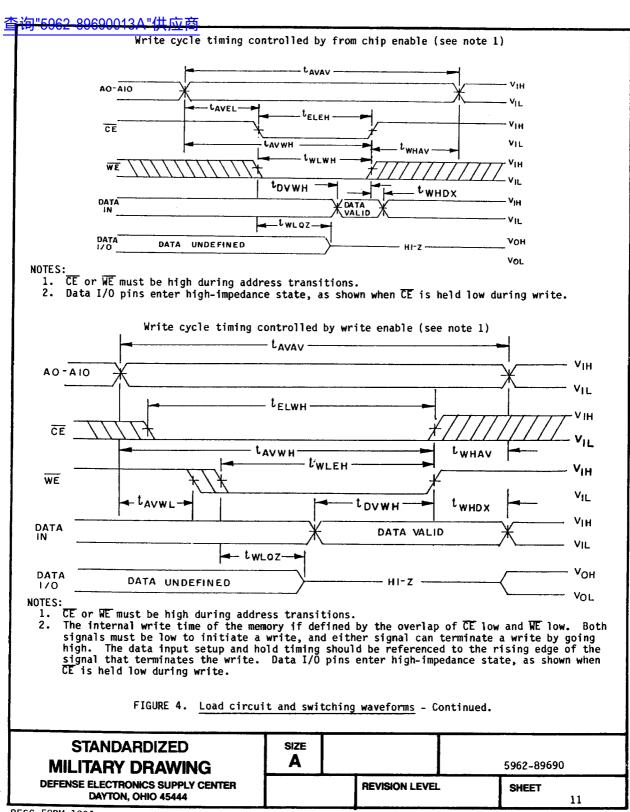
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DESC FORM 193A SEP 87

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± U. S. GOVERNMENT PRINTING OFFICE: 1988—549-904

- 3.2.4 Load circuit and switching waveforms. The load circuit and switching waveforms shall be as specified on figure 4.
- 3.2.5 <u>Die overcoat</u>. Polyimide and silicone coatings are allowable as an overcoat on the die for alpha particle protection provided that each coated microcircuit inspection lot (see MIL-M-38510, inspection lot, class B paragraph) shall be subjected to and pass the internal water vapor test (see method 1018 of MIL-STD-883). The frequency of the internal water vapor testing may not be decreased unless approved by the preparing activity.
- 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 <u>Certificate of compliance</u>. 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 MIL-SID-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).
- 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 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.
- 4.3 Quality conformance inspection. Quality conformance inspection shall be in accordance with method 5005 of MIL-SID-883 including groups A, B, C, and D inspections. The following additional criteria shall apply.

STANDARDIZED MILITARY DRAWING	SIZE A			5962-89690	
DEFENSE ELECTRONICS SUPPLY CENTER DAYTON, OHIO 45444		REVISION LEVEL	•	SHEET	12

U. S. GOVERNMENT PRINTING OFFICE: 1988--549-904

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 (method 5005)	2,3,7,8A,8B

PDA applies to subgroups 1 and 7.

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 for the initial characterization and after any process or design changes which may affect capacitance. Sample size is 15 devices with no failures, and all input and output terminals tested.
- d. Subgroups 7 and 8 tests 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 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.

5. PACKAGING

5.1 Packaging requirements. The requirements for packaging shall be in accordance with MIL-M-38510.

STANDARDIZED MILITARY DRAWING	SIZE A		5962-89690
DEFENSE ELECTRONICS SUPPLY CENTER DAYTON, OHIO 45444		REVISION LEVEL	SHEET 13

DESC FORM 193A SEP 87

U. S. GOVERNMENT PRINTING OFFICE: 1988-549-904

See 4.3.1c. See 4.3.1d.

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 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.
- 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> /
5962-8969001JX	61772 65786	IDT6116SA25DB CY6116A-25DMB
 5962-8969001KX 	 61772 65786	IDT6116SA25EB ICY7C128A-25KMB
 - 5962-8969001LX -	01295 65786 61772 75569 64440	SMJ68CE16-25JDM
5962-8969001XX	65786 61772 01295	 CY6117A-25LMB IDT6116SA25L32B SMJ68CE16-25FGM
 5962-8969001YX 	 61772 65786	 IDT6116SA25L24B CY7C128A-25LMB

See footnote at end of table.

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DESC FORM 193A

U. S. GOVERNMENT PRINTING OFFICE: 1988-549-904

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 Military drawing part number 	Vendor CAGE number	Vendor similar part number <u>1</u> /
 5962-89690013X	65786 61772	
(5962-8969001ZX 	6Y440	MT5C1608EC-25883C
 5962-8969002JX 	61772 65786	
5962-8969002KX	 61772 65786	
5962-8969002LX	 65786 61772 75569 6Y440	
 5962-8969002XX	l 65786 61772	
5962-8969002YX	(61772 65786	 IDT6116SA2OL24B CY7C128A-2OLMB
 5962-8969002ZX	6Y440	 MT5C1608EC-20883C
 5962-89690023X	65786 61772 64440	

 $\overline{\text{Caution}}$. 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

01295

Texas Instruments, Incorporated P.O. Box 60448 Midland, TX 79711-0448

6Y440

Micron Technology 2805 E. Columbia Road Boise, ID 83706

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DEFENSE ELECTRONICS SUPPLY CENTER DAYTON, OHIO 45444

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DESC FORM 193A SEP 87

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查询"5962-89690013A"供应商

Vendor CAGE		Vo	ndor name		
vendor CAGE number			d address		
61772	I:	ntegrated	l Device Ted : Boulevard	hnology, I	ncorporated
	Š	anta Clar	a, CA 9505	54	
65786	C	press Se	miconductor	•	
	3: S:	901 N. Fi an Jose,	rst Street CA 95134		
75569			e Semicondu	ctor Corpo	ration
73303	6	lO East W	leddell Driv	e	
	51	ınnyvale,	CA 94089		
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