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

5962-E1773-3

1. SCOPE				¥ 6
1.1 Scope. This drawing describes device with 1.2.1 of MIL-STD-883, "Provisions for non-JAN devices".	e require the use o	ments for f MIL-STD-	class B micro 883 in conjun	circuits in accordance ction with compliant
1.2 Part number. The complete part numb	er shall	be as show	n in the foll	owing example:
5962-88643 01		X 	utline .2)	X
1.2.1 <u>Device types</u> . The device types sh	nall ident	ify the ci	rcuit functio	n as follows:
Device type Generic number		Circuit		
01 49C410				encer with 33 deep stack
02 49C410A				encer with 33 deep stack
1.2.2 <u>Case outlines</u> . The case outlines as follows:	shall be	as designa	ted in append	lix C of MIL-M-38510, and
Outline letter		Case outli		
X D-14, (48-lead, 2.435"				
Y See figure 1, (48-term	inal, .565	5" x .565"	x .120"), squ	uare chip carrier package
1.3 Absolute maximum ratings. $1/$				
Supply voltage (V_{CC}) DC output current Power dissipation (P_D) $2/$ Storage temperature - $\overline{}$ Lead temperature (soldering, 10 secon Junction temperature (T_J) Thermal resistance, junction-to-case Case X	nds)		-0.5 V dc to +30 mA 1.0 W -65°C to +15 300° +175°C See MIL-M-38 20°C/W	
1.4 Recommended operating conditions.				
Supply voltage (V_{CC}) Case operating temperature (T_C) Minimum logic high voltage (V_{IL}) Maximum logic low voltage (V_{IL})			+4.5 V dc to -55°C to +1; 2.0 V dc 0.8 V dc	
1/ All voltage referenced to GND 2/ Must withstand the added P _D due to sho	rt circuit	t test, e.ç	g., I _{OS} .	
STANDARDIZED	SIZE			5050 00512
MILITARY DRAWING	Α	L	1010111 5:25	5962-88643
DEFENSE ELECTRONICS SUPPLY CENTER DAYTON, OHIO 45444		RÉV	ISION LEVEL	SHEET 2
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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.

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 2 herein.
 - 3.2.2 <u>Instruction set</u>. The instruction set shall be as specified on figure 3 herein.
 - 3.2.3 Logic diagram. The logic diagram shall be as specified on figure 4 herein.
 - 3.2.4 Case outlines. The case outlines shall be in accordance with 1.2.2 herein.
- 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).

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Test	Symbol	Cor	nditions Cc < +125°C	 Group A subgroups		Limits		Unit
		V _{CC} = 5. unless oth	[c < +125°C .0 V dc ±10% nerwise specified	j 	 	 Min	Max	
ligh level output	i v _{OH}	$ V_{11} = 0.8 V$	I _{OH} = -300 μA	1,2,3	All	4.3		٧
	 	V _{IH} = 2.0 V 	I _{OH} = -12 mA		 	2.4		
_ow level output	I V _{OL}	$V_{11} = 0.8 V$	I _{OL} = 300 μA	1,2,3	 A11 	<u> </u> 	0.2	V
	 	V _{IH} = 2.0 V	$I_{OL} = 20 \text{ mA}$	 	 	1	0.5	
High level input current	I I I I I I I I I I I I I I I I I I I	V _{CC} = 5.5 V	, V _{IN} = 5.5 V	1,2,3	 A11 	 	5.0	μ A
Low level input current	i IIIL	V _{CC} = 5.5 V	, V _{IN} = GND	1,2,3	A11		 -5.0 	μ Α
Short circuit output current	1 1 0S	V _{CC} = 4.5 V	, V _{OUT} = GND <u>1</u> /	1,2,3	 All	-30	 	 mA
Off state high impedance output	IIOZ	V _{CC} = 5.5 V	V _{OUT} = 0 V	1,2,3	A11		-10 	μ Α
current			V _{OUT} = 5.5 V	 			10	
Quiesecent power supply current (CMOS inputs)	I CCQH	V _{CC} = 5.5 V V _{IH} > 5.3 V CP = H	$V_{1}, V_{1L} \le 0.2 V_{1}, V_{1}, V_{1} = 0,$	1,2,3	 A11 	 	50	mA
Quiesecent power supply current (CMOS inputs)	I I CCQL	V _{CC} = 5.5 V V _{IH} > 5.3 V CP = L	$V_{1}, V_{IL} \le 0.2 V_{1}, f_{CP} = 0,$	1,2,3	 A11 		 50 	
Quiesecent power supply current (TTL inputs) 2/	ICCT	V _{CC} = 5.5 V f _{CP} = 0	7, V _{IN} = 3.4 V,	1,2,3	A11	 	0.5	l mA/ input
See footnotes at end (of table				T			
STANDAR	DIZED		SIZE A		ì	5962-	00642	

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词"5962-8864301XX"供应商 TABLE I. Electrical performance characteristics - Continued. Group A | Device Limits Unit Test Symbol Conditions -55°C < T_C < +125°C V_{CC} = 5.0 V dc ±10% |subgroups| type unless otherwise specified Min Max v_{CC} = 5.5 V, v_{IL} \leq 0.2 V, v_{IH} = 5.3 V, outputs open, \overline{oE} = L Dynamic power supply | I_{CCD} 1,2,3 A11 3.0 mA/MHz current $\begin{array}{l} \text{V}_{CC} = 5.5 \text{ V, } f_{CP} = 10 \text{ MHz,} \\ \text{outputs open,} \quad \text{V}_{IH} \geq 5.3 \text{ V,} \\ \text{V}_{IL} \leq 0.2 \text{ V, } \frac{0E}{0E} = \frac{L}{L}, \\ \text{CP} = 50\% \text{ duty cycle} \\ \end{array}$ Total power supply 1,2,3 A11 80 mΑ ICC current 3/ v_{CC} = 5.5 V, f_{CP} = 10 MHz, outputs open, v_{IH} = 3.4 V, v_{IL} = 0.4 V, $\overline{0E}$ = L, CP = 50% duty cycle 90 рF Input capacitance CIN See 4.3.1c 4 A11 12 15 рF COUT See 4.3.1c 4 A11 Output capacitance 7, 8 Functional test See 4.3.1d A11 lt_{S1} See figure 5 4/ 9,10,11 01 16 ns 02 7.0 See figure 5 9,10,11 01 30 ns 4/ ts2 15 02 ns 9,10,11 38 Setup time t_{S3} See figure 5 4/ 01 ns I_{0-3} 02 25 l ns See footnotes at end of table. STANDARDIZED SIZE Α 5962-88643 MILITARY DRAWING DEFENSE ELECTRONICS SUPPLY CENTER **REVISION LEVEL** SHEET

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Test	l Symbol 	1 -55°C <	nditions T _{C <} +125°C	Group A Subgroups	Device type	 Limi 	its	Unit
		VCC = 5 unless ot	.Õ V dc ±10% herwise specifie	1		 Min	 Max 	
Setup time	t _{S4}	 See figure	5 <u>4</u> /	9,10,11	01	35 1	 	ns
	·	 			02 	18 1	 	ns
Setup time CCEN	t _{S5}	i ! !		9,10,11	 01 	 35 		ns
	İ	 		 	02	 18 	 	l ns
Setup time CI	t _{\$6}	Í Í I		9,10,11	01 	1 18	!	ns
	İ	 		 	02	7.0	1 1	ns
Setup time	t _{S7}	 		9,10,11 01 20	 	ns		
	 	† 		 	 02 	12	 	l l ns
Hold time D ₁ to R	t _{H1}	· j 		9,10,11	01	 0 		ns
21				 	02 	0	 	ns
Hold time D ₁ to PC	t _{H2}	 		9,10,11	 01 	0	 	ns
51 35 35		 			02	1 0	 	ns
ee footnotes at	end of tubic.							644 ₆ -2
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询"5962-8864301XX"供应商 TABLE I. Electrical performance characteristics - Continued. Conditions $-55^{\circ}C < T_{C} < +125^{\circ}C$ $V_{CC} = 5.0 \text{ V dc } \pm 10\%$ unless otherwise specified Unit Group A | Device Limits Test |Symbol subgroups type Max Min See figure 5 Hold time 4/ 9,10,11 01 0 t_{H3} I₀₋₃ 0 02 ns $\frac{\text{Hold time}}{\text{CC}}$ 9,10,11 01 0 ns t_H4 02 0 ns 0 Hold time 9,10,11 01 ns t_{H5} 02 0 ns 9,10,11 0 01 t_{H6} ns Hold time CI 02 0 ns 9,10,11 0 ns Hold time t_{H7} RLD 02 0 ns 9,10,11 25 ns Propagation delay t_{PD1} D_{0-11} to Y 02 15 ns See footnotes at end of table. SIZE STANDARDIZED Α **MILITARY DRAWING** 5962-88643 DEFENSE ELECTRONICS SUPPLY CENTER **REVISION LEVEL** SHEET **DAYTON, OHIO 45444**

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Test	Symbol	Co -55°C <u><</u>	nditions T _C < +125°C .0 V dc ±10%	Group A subgroups	Device type	Lin	nits	Unit
	 	unless ot	herwise specif	ied	 	Min	Max	<u> </u>
Propagation delay	t _{PD2}	 See figure 	5 <u>4</u> /	9,10,11	01] 	40	ns
		1 			02	i !	25	ns
Propagation delay CC to Y	t _{PD3}	[9,10,11	01		36	ns
		<u> </u>			02		20	ns
Propagation delay CCEN to Y	t _{PD4}	i 		9,10,11	01		36	ns
		 			02		20	ns
Propagation delay CP to Y	t _{PD5}	i 		9,10,11	01	† ! !	46	ns
		<u> </u> 			02]] 	33	ns
Propagation delay OE to Y (enable)	t _{PD6}			9,10,11	01		25	ns
		 			02		13	ns
Propagation delay OE to Y (disable)	t _{PD7}	i i 1		9,10,11	01		30	ns
<u>5</u> /	! !			 	 02 	 	13	ns
ee footnotes at end	of table.							
STANDAI			SIZE A	, , , , , , , , , , , , , , , , , , , 		5962-	88643	<u></u>
MILITARY DRAWING DEFENSE ELECTRONICS SUPPLY CENTER					SHEET			

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TABLE I. Electrical performance characteristics - Continued. Symbol ${\tt Conditions}$ Group A | Device Limits Unit Test -55°C < TC < +125°C VCC = 5.0 V dc ±10% |subgroups| type unless otherwise specified Min Max Propagation delay I_{0-3} to PL, VECT, $\overline{\text{MAP}}$ 35 See figure 5 9,10,11 01 ns t_{PD8} 15 02 ns 9,10,11 01 35 ns Propagation delay tpD9 CP to FULL 25 02 ns 9,10,11 25 Clock LOW time 01 ns tpw1 02 20 ns 9,10,11 01 25 ns Clock HIGH time tPW2 02 20 ns 9,10,11 01 51 Clock period ns tр

- I_{CCT} is derived by measuring the total current with all the inputs tied together at 3.4 V, subtracting out I_{CCQH} , then dividing by the total number of inputs.
- $3/I_{CC} = I_{CCQH} (CD_H) + I_{CCQL} (1 CD_H) + I_{CCT} (N_T X D_H) + I_{CCD} (f_{CP}).$

Where: CD_H = Clock duty cycle high period.

 D_H = Data duty cycle TTL high period (V_{IN} = 3.4 V). N_T = Number of dynamic inputs driven at TTL levels. f_{CP} = Clock input frequency.

- Unless otherwise specified, the input pulse level shall be between 0 V to 3.0 V, input rise/fall times shall be 1.0 V/ns and input and output timing reference levels shall be 1.5 V.
- Disable time is measured to 0.5 V change on output voltage level with $C_L = 5$ pF.

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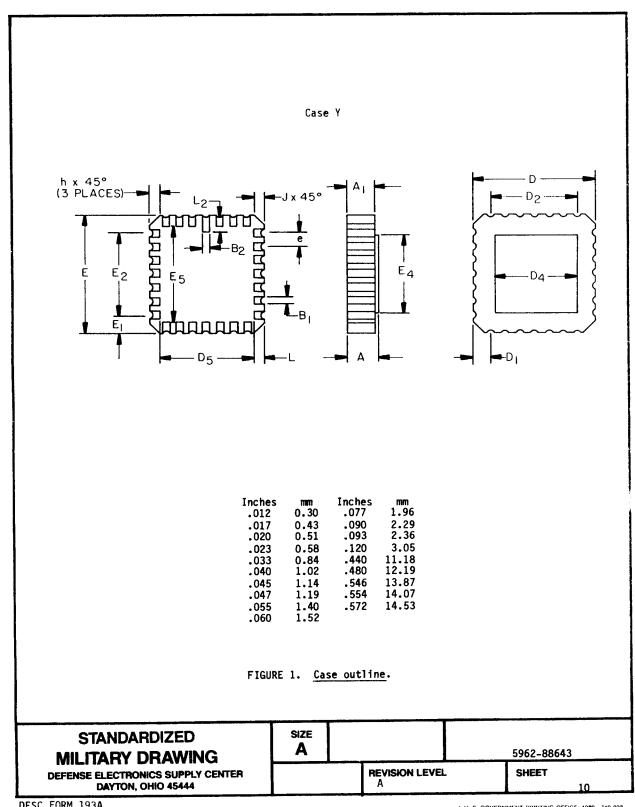
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02

40

ns

Not more than one output should be shorted at one time. Duration of the short circuit test should not exceed one second.



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Number of leads (N)	48	3	Number of leads (N)	4	8
	Min	Max		Min	Max
A	.055	.120	E ₁	.060	REF
A ₁	.045	.090	E2	.440	BSC
 B ₁	.017	.023	E4		.546
B ₂	.017	.033	E ₅	.480	REF
D	.554	 .572 	e	.040	BSC
D ₁	.060	REF	h	.012	Radius
D ₂	.440	BSC	J	.020	REF
D4	 	 .546 	L I	.033	.047
D ₅	.480	REF	L2	.077	.093
E E	 .554 	.572	l N		48 !
		 	l ND	:	12

ND = NE - Number of leads per side.

FIGURE 1. Case outline - Continued.

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		Cases X	and Y			·
Pin number	 Terminal conne	ction	Pin nu	mber	Terminal conn	ection
1	Y ₁₃	i	25	i	D ₁₅	ĺ
2	D ₁₃		26	į	Y ₁₅	
3	Y4		27		D8	į
4	D4		28		Y ₈	Ì
5	Y ₅		29	ļ	Dg	
6	D ₅	ļ	30		Yg	
7	VECT		31	ļ	D ₁₀	
8	PC	ļ	32		Y ₁₀	
9	MAP	İ	33	ļ	D ₁₁	j
10	13		34	ļ	Y ₁₁	
11	12	!	35	į	ŌE	i I
12	V _{3CC}	1	36	į	GND	į
13	I ₁	1	37	İ	CP	į
14	10	ļ	38		CI	į
15	CCEN		39		Υ ₀	İ
16	CC		40	Ì	\mathfrak{d}_0	j
17	RLD		41	i	Y ₁	İ
18	FULL		42	į	\mathfrak{d}_1	İ
19	D ₆		43		Y ₂	
20	Y ₆		44	İ	D ₂	į
21	D ₇		45		Y3	İ
22	Y ₇		46	1	D^3	İ
23	D ₁₄		47		Y ₁₂	
24	Y ₁₄		48	i i	D ₁₂	İ
<u>J</u>	FIGURE 2	. Termi	nal conr	ections.		.
STANDARDIZ MILITARY DRA	WING	SIZE A				5962-88643
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I3-I0	 Mnemonic	cc	Counter test	Stack	Address source	Register/ counter	Enable/
0	JZ) X	X	l Clear	0	NC NC	PE
1	CJS	Pass Fail	X I X	 Push NC	l I D I Pc	NC NC	PL PL
2	JMAP	 X	X	I I NC	l I D	I NC	MAP
3	CJP	Pass Fail	X X	NC NC	l I D I Pc	I I NC I NC	 <u>PL</u> <u>PL</u>
4	I PUSH	 Pass Fail	X X	 Push Push	l Pc l Pc	 Load NC	 <u>PC</u> <u>PL</u>
5	JSRP	Pass Fail	X X	 Push Push	 D R	I NC I NC	 PC PC
6	CJA	Pass Fail	X X	I NC I NC	D Pc	I NC I NC	VECT
7	JRP	 Pass Fail	I X	NC NC	D R	NC NC	PC PC
8	RFCT	X X	 = 0 Not = 0	l Pop NC	 Pc Stack	I NC I DEC	I PL
9	RPCT	X X	= 0 Not = 0	I NC I NC	l Pc	NC DEC	 <u>PL</u> <u>PL</u>
10	RPCT	Pass Fail	i X I X	Pop NC	 Stack Pc	I NC I NC	 PC PC
11	CJPP	Pass Fail	 X X	 Pop NC	D Pc	I NC I NC	PC PL
12	LDCT	X	X	l NC	l Pc	l Load	PC
13	LOOP	Pass Fail	 X X	Pop NC	Pc Stack	I NC I NC	 PL PL
14	CONT	l X	i x	I NC	l Pc	I NC	 <u>PL</u>
15	TWB	Pass Pass Fail Fail	= 0 Not = 0 = 0 Not = 0	Pop Pop Pop NC	Pc Pc D Stack	NC DEC NC DEC	PC PL PC PC

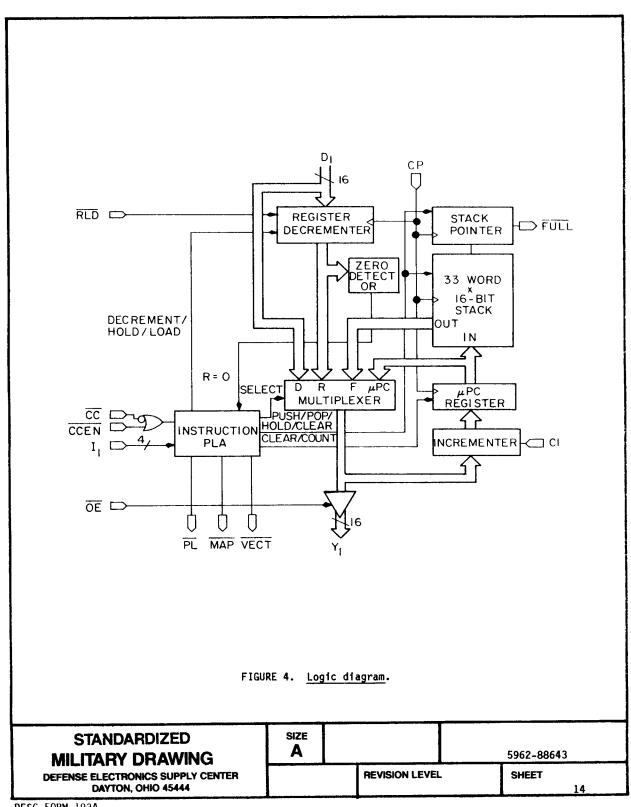
NC = No change; DEC = Decrement

FIGURE 3. Instruction set.

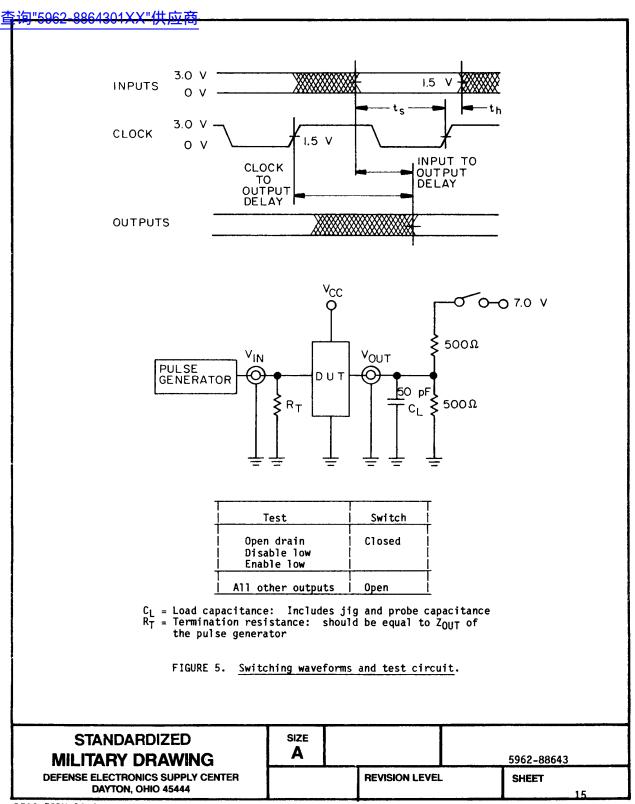
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- 3.6 Certificate of compliance. A certificate of compliance shall be required from a manufacturer in order to be listed as an approved source of supply in MIL-BUL-103 (see 6.6 herein). The certificate of compliance submitted to DESC-ECC prior to listing 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-ECC 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).
- 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 $3.6\ \text{herein}$).
 - (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-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 ($C_{\rm IN}$ and $C_{\rm OUT}$ measurement) shall be measured only initially test and after process or design changes which may affect capacitance.
 - d. Subgroups 7 and 8 functional testing shall include the verification of instruction set.

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

^{*} PDA applies to subgroup 1.

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) $T_A = +125$ °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

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.

STANDARDIZED MILITARY DRAWING	SIZE A	T 1			5962-88643	
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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-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-ECC telephone (513) 296-6022.
- 6.5 Comments. Comments on this drawing should be directed to DESC-ECC, Dayton, Ohio 45444, or telephone (513) 296-8525.
- 6.6 Approved sources of supply. Approved sources of supply are listed in MIL-BUL-103. Additional sources will be added 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 DESC-ECC. 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> /
 5962-8864301XX 	61772	IDT49C410CB
 5962-8864301YX 	2/	IDT49C410LB
	61772	IDT49C410ACB
 5962-8864302YX 	2/	IDT49C41OALB

 $[\]frac{1}{acquisi}$ Caution. Do not use this number for item $\frac{acquisi}{acquisi}$ Items acquired to this number may not satisfy the performance requirements of this drawing.

2/ Approved source of supply not available.

Vendor CAGE number Vendor name and address

61772

Integrated Device Technology Incorporated 1566 Moffett Boulevard

Salinas CA 93905

Point of contact: 3236 Scott Boulevard

Santa Clara CA 95054

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