									REVIS	SIONS								-		_
LTR	DESCRIPTION							D	ATE (YR-MO-	DA)		APPI	ROVE	D					
А	Add device types 07 through 09. Update boilerplate. Editorial changes throughout.						95-12-07			M.	. A.									
В	Add	l dev		type		Ed			-				9	96-08	-09		Ra	Ray Monnin		
REV									<u> </u>					_						
SHEET																				-
REV	В	В	В																	
SHEET	15	16	17																	
REV STATUS	 }			RE	V	<u> </u>	В	В	В	В	В	В	В	В	В	В	В	В	В	В
OF SHEETS				SHI	EET		1	2	3	4	5	6	7	8	9	10	11	12	13	14
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<u>DISTRIBUTION STATEMENT A</u>. Approved for public release; distribution is unlimited.

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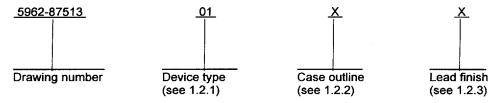
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1. SCOPE

- 1.1 <u>Scope</u>. 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 or Identifying Number (PIN). The complete PIN is as shown in the following example:



1.2.1 <u>Device types</u>. The device types identify the circuit function as follows:

Device type	Generic number 1/	Circuit function	Access time
01		4096 x 1 CMOS static RAM	25 ns
02		4096 x 1 CMOS static RAM	35 ns
03		4096 x 1 CMOS static RAM	45 ns
04		1024 x 4 CMOS static RAM	25 ns
05		1024 x 4 CMOS static RAM	35 ns
06		1024 x 4 CMOS static RAM	45 ns
07		1024 x 4 CMOS static RAM	25 ns
08		1024 x 4 CMOS static RAM	35 ns
09		1024 x 4 CMOS static RAM	45 ns
10		1024 x 4 CMOS static RAM	35 ns

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

Outline letter	Descriptive designator	<u>Terminals</u>	Package style
V	GDIP1-T18 or CDIP2-T18	18	dual-in-line
Χ	See figure 1	18	flat pack

- 1.2.3 Lead finish. The lead finish is as specified in MIL-PRF-38535, appendix A.
- 1.3 Absolute maximum ratings.

Voltage on any pin relative to V _{SS}	-2.0 V dc to +7.0 V dc
Voltage applied to outputs:	
devices 01-06, 10	$-1.0 \text{ V dc to V}_{CC} + 0.5 \text{ V dc}$
devices 07-09	-0.5 V dc to +7.0 V dc
Storage temperature range	
Maximum power dissipation (P _D):	
devices 01-06	1.0 W
devices 07-09	0.605 W
device 10	0.660 W
Lead temperature (soldering, 10 seconds)	+260°C
Thermal resistance, junction-to-case (θ ₁ C):	
Thermal resistance, junction-to-case (θ_{JC}): Case V	See MIL-STD-1835
Case X	15°C/W
Junction temperature (T ₁)	+175°C

1/ Generic numbers are listed on the Standard Microcircuit Drawing Source Approval Bulletin at the end of this document and will also be listed in MIL-HDBK-103.

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1.4 Recommended operating conditions.
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2. APPLICABLE DOCUMENTS
2.1 <u>Government specification and standard</u> . Unless otherwise specified, the following specification, standards, and handbooks, 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-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 <u>Order of precedence</u> : In the event of a conflict between the text of this drawing and the references cited herein, the text of this drawing takes 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.
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- 3.2.1 Case outline(s). The case outline(s) shall be in accordance with 1.2.2 and figure 1 herein.
- 3.2.2 <u>Terminal connections</u>. The terminal connections shall be as specified on figure 2.
- 3.2.3 Truth table(s). The truth table(s) shall be as specified on figure 3.
- 3.3 <u>Electrical performance characteristics</u>. 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 <u>Electrical test requirements</u>. 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 <u>Marking</u>. 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 <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-HDBK-103 (see 6.6 herein). The certificate of compliance submitted to DESC-EC 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 <u>Certificate of conformance</u>. 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 <u>Notification of change</u>. Notification of change to DESC-EC shall be required in accordance with MIL-PRF-38535, appendix A.
- 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.
 - 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 <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 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) $T_A = +125^{\circ}C$, 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 <u>Quality conformance inspection</u>. 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.

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	T/	ABLE I. Electrical perf	ormance ch	aracter	istics.				
Test	Symbol	Conditions -55°C ≤ T _C ≤+*	125°C		up A roups	Device type	Liı	mits	Unit
		V _{CC} = 4.5 V to V _{SS} = 0 V unless otherwise sp	o.5 V / ecified <u>1</u> /				Min	Max	
V _{CC} power supply current (average) 2/	I _{CC1}	t _{AVAV} = t _{AVAV} (mir	nimum)	1, 2,	3	01-03		80	mA
(avoluge) <u>z</u> i			i	:		υ 4 -09		110	
						10		120	
V _{CC} power supply current (standby, stable TTL input levels) 2/	I _{CC2}	CE ≥ V _{IH} , all other in ≤ V _{IL} or ≥ V _{IH}	nputs	1, 2,	3	01-06, 10		15	mA
<u>.</u>			-			07-09		10	
V _{CC} power supply current (standby, stable CMOS	¹ CC3	CE ≥ (V _{CC} - 0.2 V), all other inputs ≤ 0.2	Vor	1, 2,	3	01-06		6.0	mA
input levels) 2/		≥ (V _{CC} - 0.2 V)				10		10	
V _{CC} power supply current (standby, cycling CMOS	ICC4	CE ≥ (V _{CC} - 0.2 V),a inputs ≤ 0.2 V or	all other	1, 2,	3	01-06		10	mA
input levels) 2/		≥ (V _{CC} - 0.2 V)				10		20	
Input leakage current, any input	^I ILK	V _{CC} = 5.5 V,	/ _{CC} = 5.5 V, / _{IN} = 0.0 V to 5.5 V		3	01-06		±5.0	μA
		VIN - 0.0 V 10 3.5 V				07-10		±10	
Off state output leakage current	^I OLK	V _{CC} = 5.5 V, V _{IN} = 0.0 V to 5.5 V		1, 2,	3	01-06, 10		±10	μА
						07-09		±50	
Output high voltage	v _{OH}	I _{OUT} = -4.0 mA, V _{IH}	= 2.0 V	1, 2,	3	All	2.4		٧
Output low voltage	V _{OL}	I _{OUT} = 12 mA, V _{IL} =	= 0.8 V	1, 2,	3	01-03		0.4	٧
	···	$I_{OUT} = 8.0 \text{ mA, } V_{IL}$		1, 2,	3	04-10		0.4	
Input capacitance	CIN	V _{IN} = 0.0 V to 3.0 V, f = 1.0 MHz, T _A = +2	25° C.	4		01-06		4.0	рF
		See 4.3.1c				07-10		8.0	
Output capacitance	COUT	$V_{IN} = 0.0 \text{ V to } 3.0 \text{ V},$ $f = 1.0 \text{ MHz}, T_A = +2$	25°C	4		01-06		4.0	pF
		See 4.3.1c				07-10		8.0	
Functional tests		See 4.3.1d		7, 8A	, 8B	All			
Chip enable access time	^t ELQV	See figures 4 and 5		9, 10	, 11	01,04, 07		25	ns
						02,05, 08,10		35	
						03,06, 09		45	
See footnotes at end of table.									
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Test	Symbol Conditions -55°C ≤ T _C ≤+125°C		Group A subgroups	Device type	Lin	Unit	
		V _{CC} = 4.5 V to 5.5 V V _{SS} = 0 V unless otherwise specified <u>1</u> /			Min	Max	
Read cycle time	^t AVAV	See figures 4 and 5 3/	9, 10, 11	01,04, 07	25		ns
				02,05, 08,10	35		
				03,06, 09	45		
Address access time	t _{AVQV}	See figures 4 and 5 4/	9, 10, 11	01,04, 07		25	ns
				02,05, 08,10		35	
			,	03,06, 09		45	
Output hold after address change	^t AVQX	See figures 4 and 5	9, 10, 11	01-06, 09	5.0		ns
				10	3.0		
				07,08	0		
Chip enable to output active	^t ELQX	See figures 4 and 5 5/	9, 10, 11	01-06	5.0		ns
dollac				07	8		
				08,09	10		
				10	2.0		
Chip disable to output inactive	^t EHQZ	See figures 4 and 5 <u>5</u> / <u>6</u> /	9, 10, 11	01,05, 06, 08- 10	0	20	ns
			,	02,03	0	30	
				04,07	0	15	
Chip enable to power up	^t ELPU	See figures 4 and 5 <u>5</u> /	9, 10, 11	All	0		ns
Chip enable to power down	t _{EHPD}	See figures 4 and 5 5/	9, 10, 11	All		30	ns
Input rise and fall times	t _T	<u>5</u> / <u>7</u> /	9, 10, 11	01-09		50	ns
				10		10	
See footnotes at end of table							

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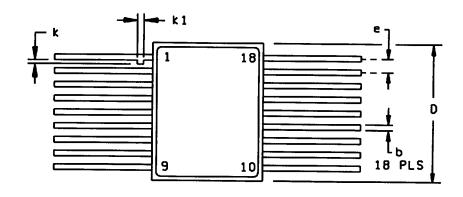
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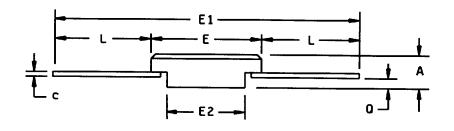
Test	Symbol	Conditions -55°C ≤ T _C ≤+1	25°C	Group A subgroups	Device type	Lir	nits	Unit
		$-55^{\circ}C \le T_C \le +1$ $V_{CC} = 4.5 \text{ V to}$ $V_{SS} = 0 \text{ V}$ unless otherwise spe	5.5 V ecified <u>1</u> /			Min	Max	
Write cycle time	^t AVAV	See figures 4 and 6	9, 10, 11		01,04, 07	25		ns
					02,05, 08,10	35		
			_		03,06, 09	45		
Write pulse width	^t WLWH	See figures 4 and 6		9, 10, 11	01,04	15		ns
					02,07	20		
			1		03,05, 10	25		
					08	30		
and the second s					06,09	35		
Chip enable to end of write	t _{ELEH}	See figures 4 and 6		9, 10, 11	01,04, 07	20		ns
					02,05, 08,10	30		
					03,06, 09	40		
Data setup to end of write	t _{DVWH}	See figures 4 and 6		9, 10, 11	01,05, 06,10	15		ns
					02,03, 08,09	20		
					04	10		
					07	12		
Data hold after end of write	^t WHDX	See figures 4 and 6		9, 10, 11	All	0		ns
Address setup to end of write	^t A∨WH	See figures 4 and 6		9, 10, 11	01,04, 07	20		ns
					02,05, 08,10	30		
					09	35		
					03,06	40		
See footnotes at end of table								
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TABLE I. <u>Electrical performance characteristics</u> - continued.							
Test	Symbol	Symbol Conditions -55°C ≤ T _C ≤+125°C		Device type	Lin	mits	Unit
		$-55^{\circ}C \le T_{C} \le +125^{\circ}C$ $V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$ $V_{SS} = 0 \text{ V}$ unless otherwise specified $\underline{1}$ /			Min	Max	
Address setup to beginning of write	t _{AVWL}	See figures 4 and 6	9, 10, 11	All	0		ns
Address hold after end of write	^t WHAV	See figures 4 and 6	9, 10, 11	All	0		ns
Write enable to output	tWLQZ	See figures 4 and 6	9, 10, 11	01,04	0	15	ns
disable				02,03, 05,06, 10	0	20	
			<u> </u>	07-09	0	8	
Output active after end of write	^t WHQX	See figures 4 and 6 5/8/	9, 10, 11	All	0		ns

- 1/ AC measurements assume signal transition times of 5 ns or less, timing reference levels of 1.5 V, input pulse levels of 0.0 V to 3.0 V and output loading of 30 pF load capacitance. Output timing reference is 1.5 V.
- 2/ I_{CC} is dependent upon output loading and cycle rate. The specified values apply with output(s) unloaded.
- 3/ For read cycles 1 and 2, WE is high for entire cycle.
- 4/ Device is continuously selected, CE low.
- 5/ Parameter may not be tested, but shall be guaranteed to the limits specified in table I.
- 6/ This parameter is measured ±200 mV from steady state output voltage for device types 01 through 06. For device types 07 through 10, this is measured ±500 mV from steady state output voltage. Load capacitance is 5.0 pF.
- 7/ Measured between V_{II} maximum and V_{IH} minimum.
- 8/ If WE is low when CE goes low, the output remains in the high impedance state.

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Symbol	Millir	meters	Inc	hes	
	Min	Max	Min	Max	
Α	2.08	2.54	.082	.100	
b	0.38	0.48	.015	.019	
С	0.10	0.18	.004	.007	
D	10.72	11.23	.422	.442	
Е	7.67	8.08	.302	.318	
E1	22.3	22.35 REF		.880 REF	
E2	5.67	5.99	.224	.236	
е	1.19 REF	1.35 REF	.047 REF	.053 REF	
k	0	.20	.008		
k1	0	.25	.0	10	
L	6.86	7.62	.270	.300	
Q	0.66		.026		
S2	0.64		.c	25	

FIGURE 1. Case outline.

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Device types	01-03	04-10
Case outlines	X, Y	X, Y
Terminal number	Termina	I symbol
1 2 3 4 5 6 7	A ₀ A ₂ A ₆ A ₄ A ₅ Q	6543012 4434444444444444444444444444444444444
8 9	WE V _{SS}	CE V _{SS}
10 11 12 13 14 15 16 17	CE D A ₇ A ₁₁ A ₉ A ₄ A ₃ A ₁ VCC	WE 4/03 1/03 1/03 1/01 1/04 1/04 1/03 1/03 1/03 1/03 1/03 1/03 1/03 1/03

FIGURE 2. <u>Terminal connections</u>.

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Device types 01 through 03

CE	ŴΕ	Mode	Output	Power
н	Х	Not selected	High Z	Standby
L	L	Write	High Z	Active
L	н	Read	D _{out}	Active

H = Logic "1" state L = Logic "0" state X = Don't care

Device types 04 through 10

CE	WE	Mode	Output	Power
н	X	Not selected	High Z	Standby
L	L	Write	D _{IN}	Active
L	Н	Read	D _{OUT}	Active

H = Logic "1" state L = Logic "0" state X = Don't care

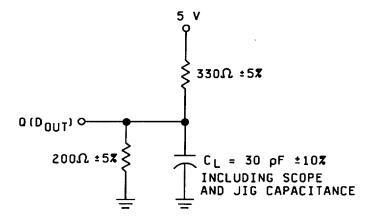
FIGURE 3. Truth tables.

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Device types 01 through 03



Device types 04 through 10

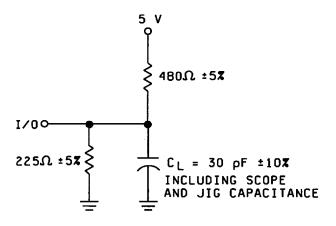


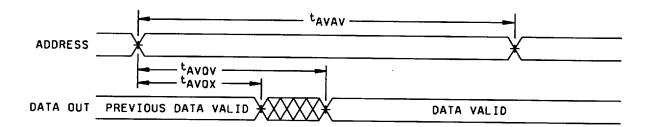
FIGURE 4. Output load circuit.

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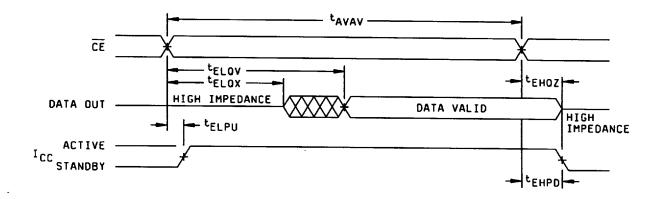
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Read cycle no. 1: WE high, CE low (see notes 1, 2, and 3)



Read cycle no. 2: WE high (see notes 1 and 2)



NOTES:

- WE is high for entire cycle.
 CE and WE must transition between V_{IH}(min) to V_{IL}(max) or V_{IL}(max) to V_{IH}(min) in a monotonic fashion.
 Device is continuously selected, CE low.

FIGURE 5. Read cycle timing diagrams.

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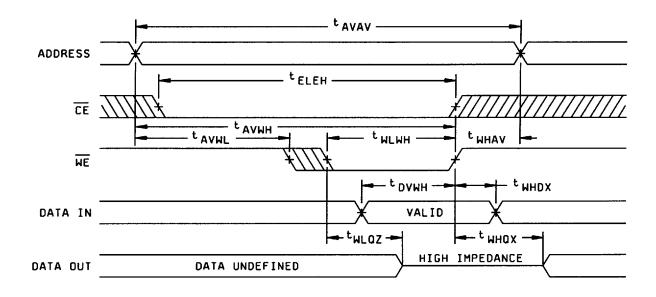
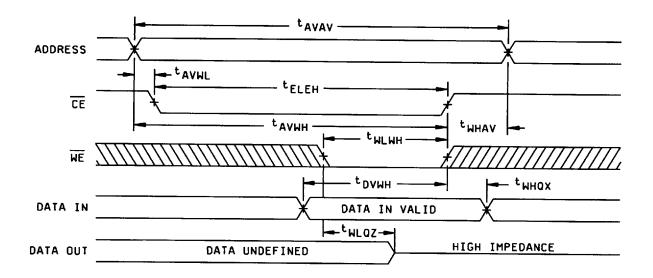


FIGURE 6. Write cycle timing diagrams.

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Write cycle no. 2: $\overline{\text{CE}}$ controlled (see notes 1 and 2)



NOTES:

- CE and WE must transition between V_{IH}(min) to V_{IL}(max) or V_{IL}(max) to V_{IH}(min) in a monotonic fashion.
 CE and WE must be ≥ V_{IH} during address transitions.

FIGURE 6. Write cycle timing diagrams - continued.

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TABLE II. Electrical test requirements.

MIL-STD-883 test requirements	Subgroups (in accordance with MIL-STD-883, 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)	1, 2, 3, 4**, 7, 8, 9, 10, 11
Groups C and D end-point electrical parameters (method 5005)	1, 2, 3

* PDA applies to subgroup 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 only for the initial test and after process or design changes which may affect input or output capacitance.
- d. 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 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) $T_A = +125^{\circ}C$, 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-STD-883 (see 3.1 herein).
- 6. NOTES
- 6.1 <u>Intended use.</u> Microcircuits conforming to this drawing are intended for use for Government microcircuit applications (original equipment), design applications, and logistics purposes.

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^{**} Indicates that subgroup 4 will only be performed during initial qualification and after any design or process changes that may affect capacitance.

- 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 <u>Configuration control of SMD's</u>. 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 <u>Record of users</u>. 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-EC, telephone (513) 296-6047.
- 6.5 <u>Comments</u>. Comments on this drawing should be directed to DESC-EC, Dayton, Ohio 45444-5270, or telephone (513) 296-5377.
- 6.6 <u>Approved sources of supply</u>. 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 DESC-EC.

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