·	REVISIONS		
LIR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
A	Changes in accordance with NOR 5962-R270-92.	92-08-07	M. L. Poelking
В	Redrawn with changes. Added device type 02. Editorial changes throughout.	94-02-22	M. L. Poelking

THE ORIGINAL FIRST PAGE OF THIS DRAWING HAS BEEN REPLACED.

CURRENT CAGE CODE 67268 REV SHEET REV SHEET **REV STATUS** В В В В В В В В REV В Α Α Α OF SHEETS 3 5 7 10 11 12 13 SHEET PREPARED BY PMIC N/A DEFENSE ELECTRONICS SUPPLY CENTER Marcia B. Kelleher DAYTON, OHIO 45444 **STANDARDIZED** CHECKED BY **MILITARY** DRAWING Thomas J. Ricciuti MICROCIRCUITS, DIGITAL, CMOS, QUAD APPROVED BY THIS DRAWING IS AVAILABLE Michael A. Frye BILATERAL SWITCH, MONOLITHIC SILICON FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE DRAWING APPROVAL DATE 90-10-15 5962-90640 CAGE CODE SIZE AMSC N/A A 14933 REVISION LEVEL В SHEET OF 13

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

5962-E428-93

1	CCUDE

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 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:

Device type	<u>Generic number</u>	<u>Circuit function</u>
01	4016B	Quad bilateral switch
02	14016B	Quad bilateral switch

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

Outline letter	Descriptive designator	<u>Terminals</u>	Package style
С	GDIP1-T14 or CDIP2-T14	14	Dual-in-line package

1.2.3 <u>Lead finish</u>. The lead finish shall be as specified in MIL-STD-883 (see 3.1 herein). Finish letter "X" shall not be marked on the microcircuit or its packaging. The "X" designation is for use in specifications when lead finishes A, B, and C are considered acceptable and interchangeable without preference.

1.3 Absolute maximum ratings.

Supply voltage range (V _{DD}):	
Device type 01	-0.5 V dc to +20 V dc
Device type 02	-0.5 V dc to +18 V dc
Input voltage range (V _{IN})	-0.5 V dc to V _{np} + 0.5 V dc
DC input current	±10 mA
Storage temperature range	-65°C to +150°C
Maximum power dissipation (P _D) 1/	500 mW dc
Lead temperature (soldering, 10 seconds)	+300°C
Thermal resistance, junction-to-case (O.C)	See MIL-STD-1835
Thermal resistance, junction-to-case (O _{JC}) Junction temperature (T _J)	+175°C
4 Percemended operating conditions	

1.4 Recommended operating conditions.

supply voltage range (v _{cc}):	
Device type 01	+3.0 V dc to +18 V dc
Device type 02	+3.0 V dc to +15 V dc
Case operating temperature range (T _C)	-55°C to +125°C

1/ For $T_c = +100$ to +125°C, derate linearly at 12 mW/°C to 200 mW.

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2. APPLICABLE DOCUMENTS

2.1 Government specification, standards, and bulletin. Unless otherwise specified, the following specification, standards, 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-I-38535 - Intergrated Circuits (Microcircuits) Manufacturing, General Specification for.

STANDARDS

MILITARY

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

BULLETIN

MILITARY

MIL-BUL-103 - List of Standardized Military Drawings (SMD's).

(Copies of the specification, standards, 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 <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 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. 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-I-38535 may be processed as QML product in accordance with the manufacturers approved program plan and qualifying activity approval in accordance with MIL-I-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-I-38535 is required to identify when the QML flow option is used.
- 3.2 <u>Design, construction, and physical dimensions</u>. The design, construction, and physical dimensions shall be as specified in MIL-STD-883 (see 3.1 herein) and herein.
 - 3.2.1 Case outline(s). The case outline(s) shall be in accordance with 1.2.2 herein.
 - 3.2.2 <u>Terminal connections</u>. The terminal connections shall be as specified on figure 1.
 - 3.2.3 Truth table(s). The truth table(s) shall be as specified on figure 2.
 - 3.2.4 Logic diagram(s). The logic diagram(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 Marking. Marking shall be in accordance with MIL-STD-883 (see 3.1 herein). 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-BUL-103 (see 6.6 herein).

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Test	est Symbol		Device	Group A	Limits		Unit	
		-55°C ≤ T _C unless otherwi	≤ +125°C se specified	type	subgroups	Min	Max	
Quiescent supply	I _{DD}	v _{DD} = 5 v <u>1</u> /		ALL	1, 3		0.25	μA
current		$V_{DD} = 5 V 1/V_{IN} = 0.0 V \text{ or } V_{DD}$		<u> </u>	2		7.5	
		$\begin{vmatrix} v_{DD} = 10 \text{ V } \frac{1}{\text{J}} \\ v_{IN} = 0.0 \text{ V or } v_{DD} \end{vmatrix}$		ALL	1, 3		0.5	
		V _{IN} = 0.0 V or V _{DD}		ļ	2		15	
		V _{DD} = 15 V 1/ V _{IN} = 0.0 V or V _{DD}		ALL	1, 3	Ē	1	
		VIN = U.U V OF VDD		<u> </u>	2		30	
		$V_{DD} = 20 V$ $V_{IN} = 0.0 V \text{ or } V_{DD}$	27	01	1, 3		5	
		V _{IN} = 0.0 V or V _{DD} <u>2</u> /			2		150	·····
Low level output voltage	V _{OL}	$ V_{IN} = 0.0 \text{ V or } V_{DD}$ $ I_{O} < 1 \mu A$	v _{cc} = 5 v <u>1</u> /	02	1, 2, 3		0.05	V
			v _{cc} = 10 v <u>1</u> /		1, 2, 3	 	0.05	
			v _{cc} = 15 v		1, 2, 3		0.05	
High level output	v _{OH}	$ V_{IN} = 0.0 \text{ V or } V_{DD}$ $ I_{O} < 1 \mu A$	v _{cc} = 5 v <u>1</u> /	02	1, 2, 3	4.95		
voltage		 	v _{cc} = 10 v <u>1</u> /	 -	1, 2, 3	9.95		
			v _{cc} = 15 v		1, 2, 3	14.95		
Low level input voltage, control inputs	v _{IL}	$V_{DD} = 5 V$ $ I_{IL} < 10 \mu A$	$V_{IN} = GND,$ $V_{OUT} = V_{DD}$ $V_{OUT} = V_{GND}$	01	1 2 3	 	0.7 0.4 0.9	
			V _{OUT} = GND	02	1, 2, 3	<u> </u>	0.9	
		$V_{DD} = 10 V$ $ I_{IL} < 10 \mu A$	$V_{IN} = GND,$ $V_{OUT} = V_{DD}$ $V_{OUT} = V_{DD}$ $V_{OUT} = V_{DD}$	01	1 2 3		0.7 0.4 0.9	
		<u> </u>	VOUT = GND DD	02	1, 2, 3		0.9	
		V _{DD} = 15 V I _{IL} < 10 μA	AOUT = OND' AOUT = ADD' AIN = OND'	01	1 2 3		0.7 0.4 0.9	
	İ		VOUT ENGND DD		1			

See footnotes at end of table.

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02

Test	Symbol	Conditions	Device type	Group A	Limits		Unit
		-55°C ≤ T _C ≤ +125°C unless otherwise specified		subgi oups	Min	Max	
High level input voltage,	v _{IH}	V _{DD} = 5 V	01 02	1, 2, 3	3.5 3.0	<u> </u>	v
control		v _{DD} = 10 v <u>1</u> /	01 02	1, 2, 3	7.0 8.0		
		v _{DD} = 15 v	01 02	1, 2, 3	11.0 13.0		
Low level output	I _{OL}	$\begin{vmatrix} v_{DD} = 5 & V & \frac{3}{4} \\ v_{DD} = 0.4 & V \\ v_{IN} = 0.0 & V \text{ or } V_{DD} \end{vmatrix}$	02	1	0.51		mA
54.7 5.7.5		VIN = 0.0 V or V _{DD}		2	0.36		
			-	3	0.64		
		V _{DD} = 10 V <u>1</u> / V _{OUT} = 0.5 V V _{IN} = 0.0 V or V _{DD}	02	1	1.3	1	
	ļ			2	0.9	<u> </u>	
				3	1.6		
		V _{DD} = 15 V <u>1</u> /	02	1	3.4		
		$\begin{vmatrix} v_{DD} = 15 & v & 1/\\ v_{OUT} = 1.5 & v & V & V_{DD} \end{vmatrix}$		2	2.4		
				3	4.2		
High level	Іон		02	1	-0.51		mA
output current		$\begin{vmatrix} v_{DD} = 5 & v & 3/\\ v_{OUT} = 4.6 & V \\ v_{IN} = 0.0 & v & or & v_{DD} \end{vmatrix}$		2	-0.36		
				3	 -0.64		
		V _{DD} = 5 V 3/ V _{OUT} = 2.5 V V _{IN} = 0.0 V or V _{DD}	02	1	 -1.6		
				2	-1.15		
				3	-2.0		
		V _{DD} = 10 V 1/ V _{OUT} = 9.5 V V _{IN} = 0.0 V or V _{DD} 	02 _	1	-1.3	<u> </u>	
				2	-0.9		
				3	_1.60		
				11	-3.4		
				2	-2.4		
				3	 -4.2		
Input current	IIN	v _{DD} = 20 V <u>2</u> /	01	1,3		±0.1	μ A
		$V_{DD} = 20 \text{ V } 2/V_{DD} = 0.0 \text{ V or } V_{DD}$		2		±1.0	
		$V_{DD} = 15 V$ $V_{IN} = 0.0 V \text{ or } V_{DD}$	02	1, 3	 	±0.1	
Con funtration in				2	İ	±1.0	
See footnotes at	enu ot ta	pte.					
		DARDIZED RY DRAWING	SIZE A		·		5962-9064
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Test	Symbol		ce Group A	Limits		Unit		
		-55°C ≤ T _C unless otherwi	≤ +125°C se specified	type	subgroups	Min	Max	
Input capacitance	CIN	V _{DD} = GND See 4.3.1c		ALL	4		7.5	pF
Functional test		See 4.3.1d		ALL	7, 8			
Propagation	t _{PHL}	$R_L = 200 \text{ k}_{\Omega} (01)$ $R_L = 10 \text{ k}_{\Omega} (02)$	V _{DD} = 5 V	ALL	9	1.5 4/	100	ns
delay time, input to	t _{PLH}	$R_{\perp} = 10 k_{\Omega} (02)$ $C_{\perp} = 50 pF$ $t_r = t_f = 20 ns$ $V_{CONTROL} = V_{DD}$ $V_{IN} = V_{DD} (square)$ wave centered on	ļ	-	10, 11	1.5 4/	160	
output		VCONTROL VDD (square	v _{DD} = 10 v		9	1.5 4/	40	
		wave centered on V _{DD} /2) See figure 4	1/		10, 11	1.5 4/	64	
		See Tigure 4	v _{DD} = 15 v	-	9	1.5 4/	30	
	ļ			ļ	10, 11	1.5 4/	48	
Propagation	t _{PHZ}	R _L = 1 kΩ C _L = 50 pF tr = t _f = 20 ns See figure 5	$v_{DD} = 5 \text{ V}$	ALL	9	1.5 4/	70	
delay time, control	tPLZ'			_	10, 11	1.5 4/	112	
input to switch output	^T PZL		v _{DD} = 10 v v _{DD} = 15 v	-	9	1.5 4/	40	
(turn on)				-	10, 11	1.5 4/	64	
					9	1.5 4/	30	<u> </u>
	<u> </u>				10, 11	1.5 4/	48 660	Ω
On-state resistance	CON	RON VCONTROL = VDD RL returned to VDD - GND/2	V _{DD} = 10 V V _{IN} = V _{DD} or GND	ALL	2 3		960 600	32
			V _{DD} = 10 V V _{IN} = 4.75 V to 5.75 V	-	1 2 3		2000 2600 1870	-
			V _{DD} = 15 V V _{IN} = V _{DD} or GND		1 2 3		400 600 360	
			V _{DD} = 15 V V _{IN} = 7.25 V to 7.75 V	-	1 2 3		850 1230 775	
Delta on-state resistance	delta R _{ON}	VCONTROL WPD	V _{DD} = 5 V	01	1		15	Ω
between any two switches	TON	v _{SS} = 0.0 v	V _{DD} = 10 V	01	1		15	Ī
				02	1		15	
	İ		v _{DD} = 15 v	01	1		10	
	İ		טט	02	1		10	

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TABLE I. <u>Electrical performance characteristics</u> - Continued.

Test Symbol	Conditions	Device	Group A	Limits		Unit	
		-55°C ≤ T _C ≤ +125°C unless otherwise specified	type	subgroups	Min	Max	
Input/output IIs VCONIROL = 0 V VIN = 18 V	ALL	1, 3		±0.1	μΑ		
current		VIN = 18 V VOUT = 0 V		2	 	±1.0	
(Switch off) $V_{\text{CONTROL}} = 0 \text{ V}$	ALL	1, 3		±0.1	μΑ		
	VCONTROL VOUT = 18 V	į į	2		±1.0		

This parameter is guaranteed, if not tested, to the specified limits in table I for device O1 only.

At -55°C test is performed with $V_{\rm D}$ at 18 volts. The I $_{\rm OL}$ and I $_{\rm CH}$ tests are tested 100 percent at T $_{\rm C}$ = +25°C, and are guaranteed, if not tested, for T $_{\rm C}$ = -55°C and T $_{\rm C}$ = +125°C. The minimum limit for device type 01 only = 1.5 ns.

- 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-EC 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.
- 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-EC 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 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 A, B, 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) $T_A = +125$ °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.

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Device type	01 and 02
Case outline	С
Terminal number	Terminal symbol
1 2 3 4 5 6 7 8 9 10 11 12 13	INPUT/OUTPUT SIG A OUTPUT/INPUT SIG A OUTPUT/INPUT SIG B INPUT/OUTPUT SIG B CONTROL B CONTROL C GND INPUT/OUTPUT SIG C OUTPUT/INPUT SIG C OUTPUT/INPUT SIG D INPUT/OUTPUT SIG D CONTROL D CONTROL A VCC

FIGURE 1. <u>Terminal connections</u>.

Truth table each switch				
Inpi	ıt	Output		
VCONTROL	V _{IN}	V _{OUT}		
H H L	 L H H	L H OPEN OPEN		

H = High voltage level
L = Low voltage level

Positive logic: Switch on $V_{\mbox{CONTROL}} = \mbox{High}$ Switch off $V_{\mbox{CONTROL}} = \mbox{Low}$

FIGURE 2. Truth table.

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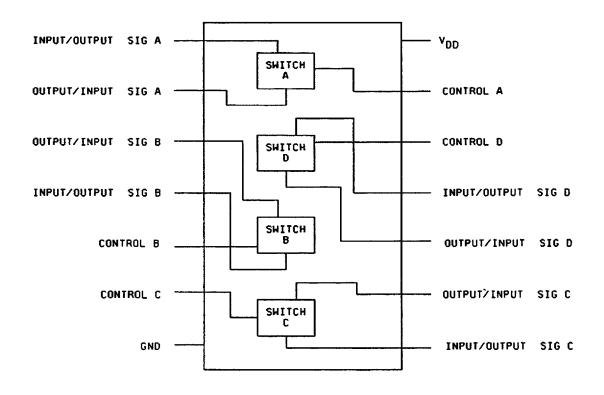
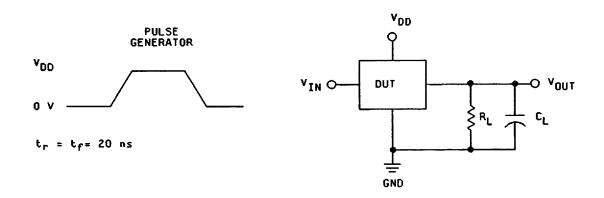
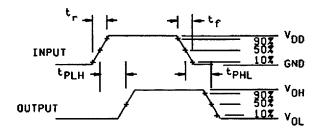


FIGURE 3. Logic diagram.

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NOTES:

- 1. Pulse generator conditions: $V_{GEN} = V_{DD} \pm 1$ percent, duty cycle 50 percent, t_r and $t_f = 20$ ns ± 2.0 ns.

 2. $C_1 = 50$ pF, $R_1 = 200$ k Ω , includes probe and jig capacitance.

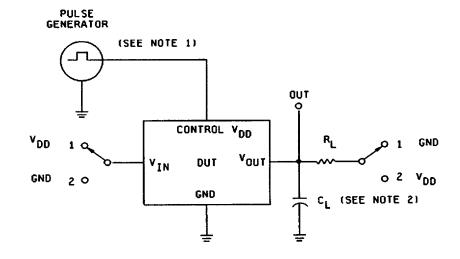
 3. Identical switching measurements are obtained from switch A, switch B, switch C, and switch D.

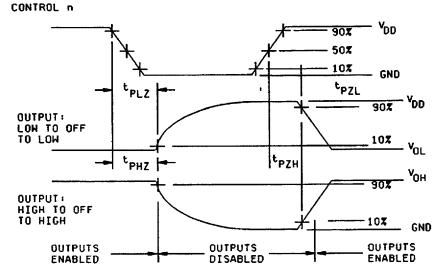
FIGURE 4. Switching test circuit and waveforms, switch input to switch output.

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NOTES:

- Pulse generator characteristics: $V_{GEN} = V_{DD} \pm 1$ percent; duty cycle = 50 percent; t_r , $t_f = 20$ ns and Z_{QHT} = 50Ω.

 2. C₁ = 50 pf, R₁ = 1 kΩ, includes probe and jig capacitance.

 3. Identical switching measurements are obtained from switch A, switch B, switch C, and switch D.

 4. Switch position 1 for t_{PZH} and t_{PHZ} tests; switch position 2 for t_{PLZ} and t_{PZL} tests.

FIGURE 5. Switching test circuit and waveforms, switch control input to switch output.

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TABLE II. Electrical test requirements.

MIL-STD-883 test requirements	Subgroups (in accordance with method 5005, table I)
Interim electrical parameters (method 5004)	
Final electrical test parameters (method 5004)	1*, 2, 3, 9
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.
- ** Subgroups 10 and 11, if not tested, shall be guaranteed to the specified limits in table I.
- 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} measurement) shall be measured only for the initial test and after process or design changes which may affect input capacitance. Capacitance shall be measured between the designated terminal and GND or at a frequency of 1 MHz. Test all applicable pins on five devices with zero failures.
 - d. Subgroups 7 and 8 shall include verification of the truth table as specified on figure 2 herein.
 - 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 B, 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) $T_A = +125$ °C, minimum.
 - (3) Test duration: 1,000 hours, except as permitted by method 1005 of MIL-STD-883.
 - 5. PACKAGING
- 5.1 <u>Packaging requirements</u>. The requirements for packaging shall be in accordance with MIL-STD-883 (see 3.1 herein).

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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 logistic purposes.
- 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 Form DD Form 1692, Engineering Change Proposal.
- 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-EC, telephone (513) 296-6047.
- 6.5 <u>Comments</u>. Comments on this drawing should be directed to DESC-EC, Dayton, Ohio 45444, or telephone (513) 296-8525.
- 6.6 Approved sources of supply. Approved sources of supply are listed in MIL-BUL-103. 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-EC.

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