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5962-E1332

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

1. SCOPE				
1.1 Scope. This draw with 1.2.1 of MIL-STD-88 non-JAN devices".	ing describes device requi 3, "Provisions for the use	rements for cl of MIL-STD-88	lass B microc 33 in conjunc	ircuits in accordance tion with compliant
1.2 Part number. The	complete part number shal	1 be as shown	in the follo	owing example:
Drawing	M,D, or - 87538 RHA Drawing designator (1.2.1) suffix	01 Device type (1.2.2)	X 	X -
1.2.1 Radiation hardn RHA levels (M or D only)	ess assurance (RHA) design in accordance with MIL-M-	ator. RHA mai 38510, a dash	rked devices (-) indicate	shall meet the specifie s a non RHA device.
1.2.2 <u>Device type</u> . T	he device type shall ident	ify the circui	it function a	s follows:
Device type	Generic number		Circuit fun	nction
01	HS-1840RH			alog MUX/DEMUX with high at overvoltage protectio
1.2.3 <u>Case outlines</u> . as follows:	The case outlines shall b	e as designate	ed in appendi	ix C of MIL-M-38510, and
Outline lette		Case ou		
X Y	D-10 (28-lead, F-17 (28-lead,	1.490" x .610' .730" x .380"	" x .232"), c x .090"), fl	dual-in-line package at package
1.3 Absolute maximum	ratings.			
Supply voltage bet	ween V+ and V-		V dc) V dc	
Supply voltage bet	ween V-and GND	·20 · +20) V dc) V dc	
Digital input over Analog input overv	voltage range	· (((·)2!	GND)-4 V) < V 5 V < V _S < +2 5°C to +150°C	(A < (V _{REF})+4 V)
Maximum power diss	ipation (P _D): <u>1</u> /	160	OO mW	
Case Y	soldering, 10 seconds)	· 140 · +30	OO mW OO°C	
I Thermal resistance	, junction-to-case (θ _{JC}) - re (T _J)	· 5ee	MIL-M-38510 75°C), appendix C
1				

The derating factor for case X shall be 20.4 mW/°C above $T_A = +95$ °C, and for case Y shall be 18.5 mW/°C above +95°C.

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1.4 Recommended operating conditions. +15 V dc -15 V dc 5 V dc (+10 V dc) 2/ 4.0 V dc (+7 V dc) 2/ VAH ٧̈́AL 0.8 V dc 2/ 0.8 V dc -55°C to +125°C Ambient operating temperature range $(T_A) - - - - -$ 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 - List of Standardized Military Drawings (SMD's). MIL-BUL-103 (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 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 table. The truth table shall be as specified on figure 2. 3.2.3 Logic diagram. The logic diagram shall be as specified on figure 3.

 $\frac{2}{1}$ For V_{REF} = 5.0 V dc, V_{AH} = 4.0 V dc minimum. For V_{REF} = 10 V dc, V_{AH} = 7.0 V dc. For either V_{REF} voltages, V_{AL} = 0.8 V dc maximum.

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- 3.2.4 RHA biasing circuit. The RHA biasing circuit shall be as specified on figure 4.
- 3.2.5 Case outlines. The case outlines shall be in accordance with 1.2.3 herein.
- 3.3 Electrical performance characteristics and post irradiation end-point electrical parameter limits. Unless otherwise specified, the electrical performance characteristics and post irradiation parameter limits are as specified in table I and apply over the full ambient 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 6.7 herein).
- 3.5.1 Radiation hardness assurance (RHA) designator. RHA parts shall be marked with M or D in place of the dash (-) in accordance with 1.2.1 herein.
- 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 6.7 herein). 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 $\frac{4}{9}$ of MIL-M-38510 to the extent specified in MIL-STD-883 (see 3.1 herein).
- 4.2 Screening. 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 using the circuit submitted with the certificate of compliance (see 3.6 herein).
 - (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.
- 4.3 Quality conformance inspection. Quality conformance inspection shall be in accordance with method $\overline{5005}$ of MIL-STD-883 including groups A, B, C, D, and E inspections. The following additional criteria shall apply.

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	TABLE I.	Electrical irradiation	performar on end-poir	ice char it elect	acteristics rical param	and p	ost imits.			
Test	Symbo1		ditions un		Isubgroups	 (-55/+25°C) Limits			25°C)	 Unit
	<u> </u>		1/		(test method)	Min	Max	Min	Max	1
Input leakage current, address or enable pins	IAH	 Measure inpo ground all	uts sequen unused pi	tially,	1, 2, 3		1.0		1.0	 μ A
2/	 	 		M	1 3/		1.0		i !	
	<u> </u> 	i ! !		D I			1.0		<u> </u>	
	IAL	 -			1, 2, 3		 -1.0		-1.0	! !
] 		М	1 3/		 -1.0		 	
				 D 			 -1.0 		 	T [!
Leakaye current into the source terminal of an off switch	IS(OFF)	$V_S = -10 V_s$ inputs and	output = 4		1, 2, 3		 ±100		 ±100 	l nA
	 	See figure 	5	M	1 1 3/		 ±100 			Г
				 D 	 		 ±100		1	
	V _S = +10 V, all unuse inputs and output = - See figure 5		nd output = -10 V		 1, 2, 3 		 ±100 		 ±100 	
			M .	1 1 1		±100		 		
	 			l D	 		±100		 	
into the source terminal of an off switch with	 IS(OFF) power off	i unusea inpu	+25 V, V _A = 0 V, 0 V, V- = 0 V, 0 V, V _{REF} = 0 V, al d inputs tied to GM		1, 2, 3		±100		 ±100 	nĀ
power off	 	See figure 	5	M	1 1		±100			「
	 			l D			* 100		[[
See footnotes at er	nd of tabl	e.		,			<u>-</u> '			-
STANDAF		10	SIZE A					co o==	-20	
MILITARY DRAWING DEFENSE ELECTRONICS SUPPLY CENTER			REVISION LEVEL			5962-87538 EL SHEET				

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1/ , V _D = 0 V, inputs tied 5 , V _D = 0 V, inputs tied 5 , V _D = 0 V, inputs tied 5	M D D	1, 2, 3 1, 2, 3 1, 2, 3 1, 2, 3 1, 2, 3		#1 #1 #1 #1 #1 #1 #1 #1	Min	Max	μΑ μΑ μΑ
inputs tied 5 , VD = 0 V, inputs tied 5 , VD = 0 V, inputs tied 5	M D D	1, 2, 3 1, 2, 3 1, 2, 3 1, 2, 3		±1			
, V _D = 0 V, inputs tied 5 , V _D = 0 V, inputs tied 5	D D D	1, 2, 3		±1			
5, V _D = 0 V, inputs tied 5	M	1, 2, 3		±1			
5, V _D = 0 V, inputs tied 5	M D D D D D D D D D D D D D D D D D D D	1, 2, 3		±1 ±1 ±1			Τ
, V _D = 0 V, inputs tied 5	D T M D	1, 2, 3		±1		+1	
inputs tied 5 Vn = 0 V.	M D	1 3/		±1 ±1 ±1		+1	 μ Α Γ
inputs tied 5 Vn = 0 V.	M D	1 3/		±1		±1 	μ Α
. Vn = 0 V.	 D 	3/	;			 	i
, V _D = 0 V, inputs tied	<u>i </u>			±1			
, V _D = 0 V, inputs tied				i i	 		
S = -25 V, V _D = 0 V, 11 unused inputs tied o GND T		1, 2, 3		±1		±1	Г
See figure 5	М	1 3/		±1			
		!		±1 ±1		 	! ! !
V _D = -10 V, all unused inputs = +10 V See figure 5 M		1, 2, 3	2, 3 ±100			±100 	l nA
		1 1 3/		 ±100			
		- 		 ±100			! !
			1				
SIZE							

Electrical performance characteristics and post TABLE I. irradiation end-point electrical parameter limits - Continued. i(-55/+25°C)| |Group A (+125°C) Test conditions unless Unit Limits otherwise specified $\frac{1}{2}$ subgroups Limits Test Symbol (test Min | Max | Min | Max method) | $V_D = +10 \text{ V}$ all unused inputs = -10 V±100 ±100 nΑ 1, 2, 3 Leakage current into the drain 1D(OFF) See figure 5 terminal of an ±100 М off switch 3/ D ±100 $v_{S} = +10 \text{ V}, v_{D} = +10 \text{ V}$ $v_{EN} = 0.8 \text{ V}, \text{ all unused}$ 1, 2, 3 ±100 ±100 nΑ Leakage current from an on driver ID(ON) input = +10 V into the switch ±100 М 1 3/ See figure 5 (drain and source) D ±100 $V_{S} = -10 \text{ V}, V_{D} = -10 \text{ V}$ $V_{EN} = 0.8 \text{ V}, \text{ all unused inputs} = +10 \text{ V}$ ±100 ±100 1, 2, 3 ±100 See figure 5 3/ ±100 D 0.5 0.5 mΑ $V_A = 0 V$, $V_{EN} = 0.8 V$ 1, 2, 3 Positive supply I(+) current 0.5 М 3/ D 0.5 0.5 1, 2, 3 0.5 $V_A = 0 V$, $V_{EN} = 0.8 V$ Negative supply |I(-) čurrent 0.5 М 1 3/ 0.5 D See footnotes at end of table. SIZE **STANDARDIZED** Α 5962-87538 **MILITARY DRAWING** DEFENSE ELECTRONICS SUPPLY CENTER REVISION LEVEL SHEET 7 DAYTON, OHIO 45444

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Electrical performance characteristics and post Trradiation end-point electrical parameter limits - Continued. TABLE I. |Group A |(-55/+25°C)| (+125°C) Test conditions unless $\begin{array}{c} \text{otherwise specified} \\ \underline{1}/ \end{array}$ Limits Unit Symbol | subgroups Limits Test (test method) Max Min | Max 1, 2, 3 0.5 0.5 mΑ Positive standby +ISBY $V_A = 0 V$, $V_{EN} = 4.0 V$ supply current М 1 0.5 3/ D 0.5 0.5 0.5 Negative standby supply current $V_A = 0 V$, $V_{EN} = 4.0 V$ 1, 2, 3 -ISBY М 0.5 3/ D 0.5 V_S = +15 V, I_D = -1 mA, V_{EN} = 0.8 V See figure 5 1.0 | kΩ 1, 2, 3 1.0 Switch on resistance | RDS(ON) 1.0 3/ D 1.0 V_S = +15 V, I_D = -1 mA, V_{EN} = 0.8 V See figure 5 4.0 4.0 1, 2, 3 4.0 М 3/ 4.0 D $V^{+} = V_{-} = 0 V$, f = 1 MHz, $T_{A} = +25 ^{\circ}C$ 7 рF 4 Capacitance: digital input See 4.3.1c $V^{+} = V_{-} = 0 V$, f = 1 MHz, $T_{A} = +25^{\circ}C$ See 4.3.1c 5 CS(OFF) Capacitance: channel input $V^{+} = V_{-} = 0$ V, f = 1 MHz, $T_{A} = +25$ C 50 Capacitance: CD(OFF) channel output See 4.3.1c See footnotes at end of table. STANI ARDIZED SIZE Α 5962-87538 MILITARY DRAWING DEFENSE ELECTRON'CS SUPPLY CENTER **REVISION LEVEL** SHEET 8 DAYTON. OF 3 45444

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Test	 Symbol	Test conditions unl							
,	1 !		Test conditions unless otherwise specified $\frac{1}{2}$			(-55/+25°C) Limits		(+125°C) Limits	
	<u> </u>	<u> 1</u> /	(test method)	Min	Max	Min	Max		
Off isolation input or output	V _{ISO}	$V_{EN} = 4.0 \text{ V}, f = 500 \text{ k}$ $C_L = 7 \text{ pF}, R_L = 1 \text{ k}\Omega,$ $V_S = 3 \text{ V}_{RMS}, T_A = +25 \text{ c}$ See 4.3.1c	$V_{EN} = 4.0 \text{ V}, f = 500 \text{ kHz}, C_L = 7 \text{ pF}, R_L = 1 \text{ k}\Omega, V_S = 3 \text{ VRMS}, T_A = +25 ^{\circ}\text{C}$ See 4.3.1c			 -45 		 	dB
Function test	 	See 4.3.1d		 7 				 	
Break-before- make time delay	t _D	R _L = 1 kΩ, C _L = 50 pF See figure 6		 9, 10, 11 	20	[[20		l ns
 	 		 M 	9	20	 		 	
			D I		20				Γ
delay time	ton(A), toff(A)	$R_L = 10 \text{ M}\Omega$, $C_L = 50 \text{ pF}$ See figure 6		9, 10, 11		1		1	μS
address inputs to I/O channels			M	9 <u>3</u> /		1 1			
	 		D	! 		1 1			
delay time	ton(EN)	$R_L = 1 \text{ k}\Omega$, $C_L = 50 \text{ pF}$ See figure 6		 9, 10, 11 		1		1	
enable to I/O channels	 		М	9 <u>3</u> /		1			
						1			

1/ -55°C < TA < +125°C

VAH(logic level high) = 4.0 V dc

VAL(logic level low) = 0.8 V dc

V+ = +15 V dc, V- = -15 V dc

VEN = 4.0 V unless otherwise specified

VREF = 5.0 V dc

- 2/ Input current of one node.
- $\frac{3}{}$ When testing to a radiation hardness assurance level, the test shall be performed at T_A = +25°C. Limits shown are guaranteed only at T_A = +25°C ±5 percent.

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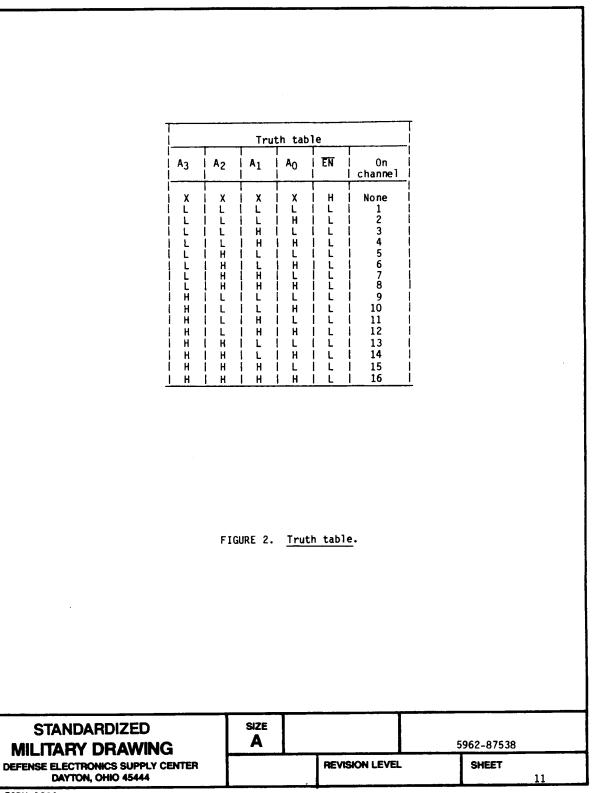
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Device type	01
Case outlines	X and Y
Terminal number	Terminal symbol
1 1	V+
2	NC
1 3	l NC
4	IN 16
5	IN 15
6	IN 14
7	IN 13
8	IN 12
9	IN 11
10	IN 10
11	IN 9
12	GND
13	V _{REF}
14	A3
15	A ₂
16	A ₁
17	Ā ₀
18	EN
19	IN 1
20	IN 2
21	IN 3
22	IN 4
23	IN 5
24	IN 6
25	IN 7
26	IN 8
27	l v-
28	OUT

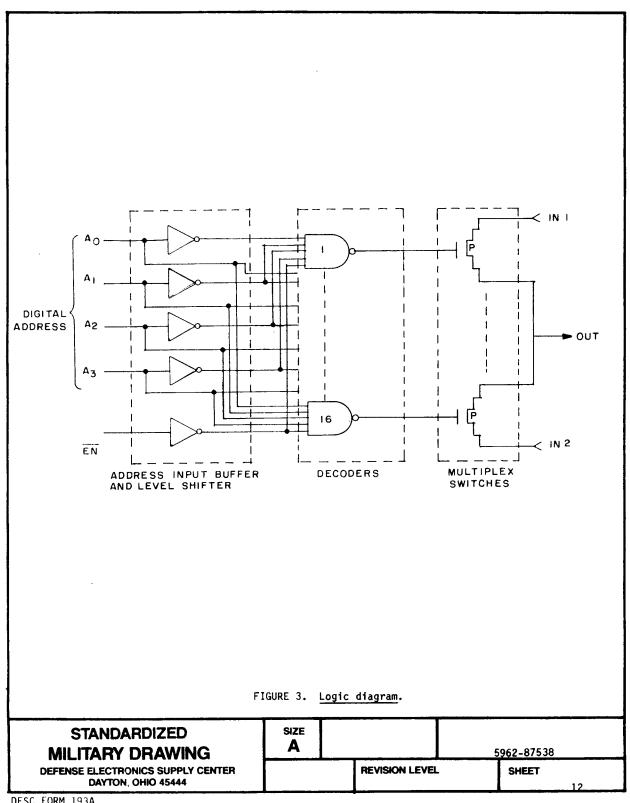
FIGURE 1. Terminal connections.

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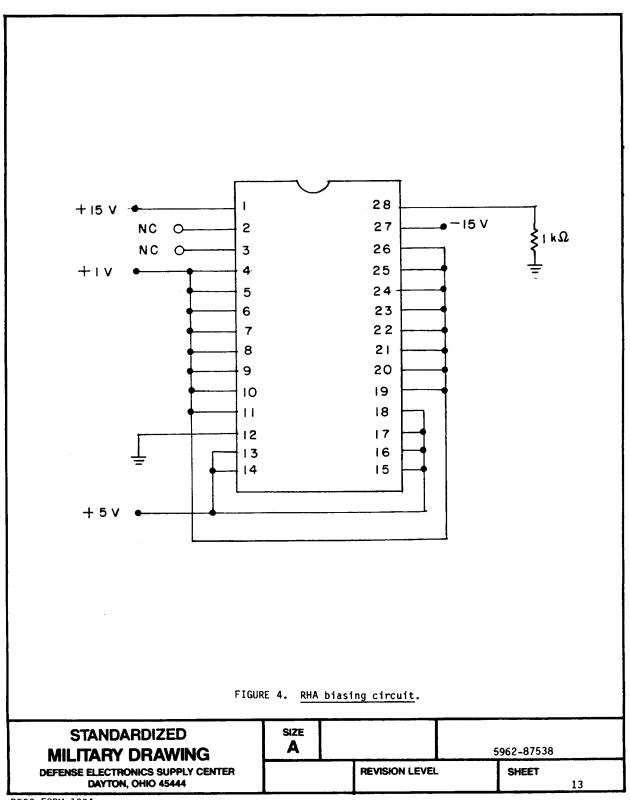
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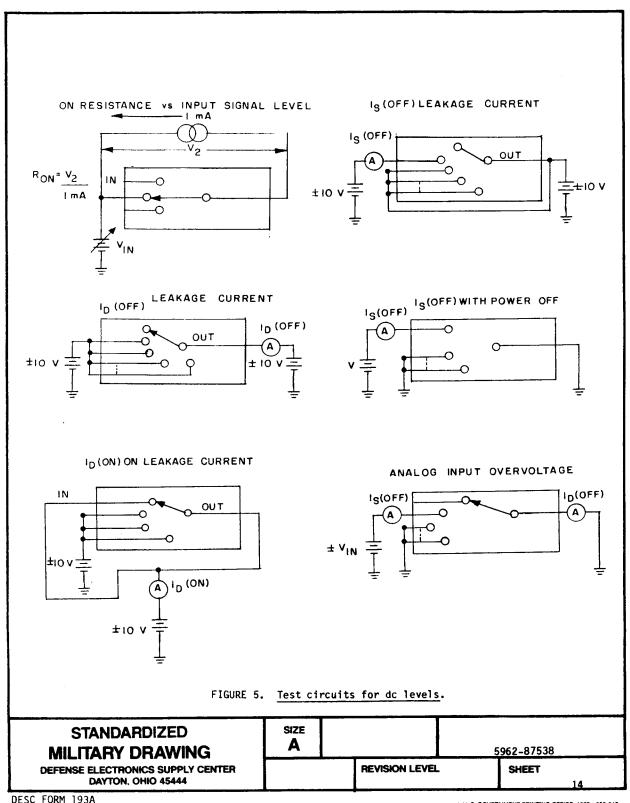
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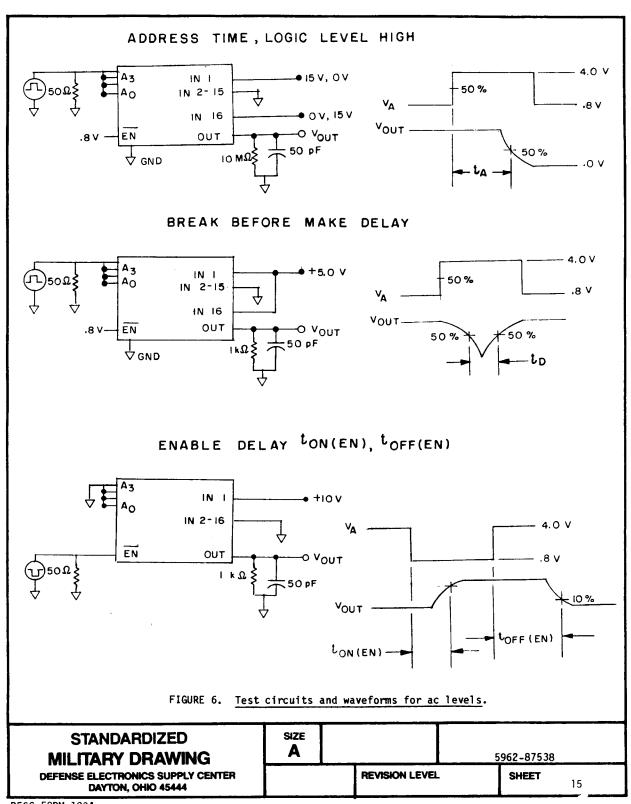
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4.3.1 Group A inspection.

- a. Tests shall be as specified in table II herein.
- b. Subgroups 5, 6, and 8 in table I, method 5005 of MIL-STD-883 shall be omitted.
- c. Subgroup 4 (C_A , C_S , C_D , C_{DS} , and V_{ISO} measurements) shall be measured only for the initial test and after process or design changes which may affect the capacitance or off isolation. Test 15 devices with 0 failures.
- d. Subgroups 7 tests shall verify 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.
 - Test condition A, B, C, or 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.
- 4.3.3 Group E inspection. Group E inspection is required only for parts intended to be marked as radiation hardness assured (see 3.5.1 herein). For radiation hardness assured devices, the manufacturer shall maintain lot travelers to document the completion of required processing steps from wafer diffusion.
 - a. End-point electrical parameters shall be as specified in table II herein.
 - b. Prior to total dose irradiation, each selected sample shall be assembled in its qualified package. It shall pass the specified group A electrical parameters in table I for subgroups specified in table II herein.
 - c. The devices shall be subjected to radiation hardness assured tests as specified in MIL-M-38510 for the RHA level being tested, and meet the post irradiation end-point electrical parameter limits as defined in table I at T_A = +25°C ±5 percent, after exposure.
 - d. Prior to and during total dose irradiation testing, the devices shall be biased in accordance with figure 4 herein.
 - e. Subgroups 1 and 2 of table V (method 5005) of MIL-STD-883 shall be tested as appropriate for device construction.

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TABLE II. Electrical test re	quirements.
MIL-STD-883 test requirements	Subgroups (per method 5005, table I)
Interim electrical parameters (method 5004)	1
Final electrical test parameters (method 5004)	1*, 2, 3, 9
Group A test requirements (method 5005)	1, 2, 3, 4, 7, 9, 10**, 11**
Group C and D end-point electrical parameters (method 5005)	1
Group E end-point electrical parameters	1, 7, 9

* PDA applies to subgroup 1.

(method 5005)

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 Additional acquisition and data reporting requirements. When specified in the purchase order or contract, a copy of the following, as applicable shall be supplied.

Requirements for RHA options.

- 6.4 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).
- 6.5 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.

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^{**} Subgroups 10 and 11, if not tested, shall be guaranteed to the specified limits in table I.

- 6.6 Comments. Comments on this drawing should be directed to DESC-ECS, Dayton, Ohio 45444, or telephone (513) 296-5375.
- 6.7 Approved source of supply. An approved source of supply is listed in MIL-BUL-103. Additional sources will be added to MIL-BUL-103 as they become available. The vendor listed in MIL-BUL-103 has agreed to this drawing and a certificate of compliance (see 3.6 herein) has been submitted to and accepted by DESC-ECS. The approved source of supply listed below is for information purposes only and is 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> /
5962D8753801XX	34371	HS1-1840RH
5962D8753801YX	-i i 	HS9-1840RH

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

34371

Vendor name and address

Harris Semiconductor P.O. Box 883 Melbourne, FL 32901

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