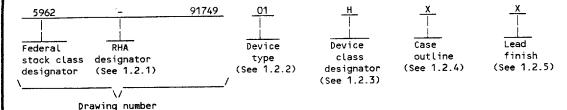
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1. SCOPE

- 1.1 <u>Scope</u>. This drawing forms a part of a one part one part number documentation system (see 6.6 herein). This drawing describes device requirements for hybrid microcircuits to be processed in accordance with MIL-H-38534. Two product assurance classes, military high reliability (device class H) and space application (device class K) and a choice of case outlines and lead finishes are available and are reflected in the Part or Identifying Number (PIN). When available, a choice of radiation hardness assurance levels are reflected in the PIN.
 - 1.2 PIN. The PIN shall be as shown in the following example:



- 1.2.1 Radiation hardness assurance (RHA) designator. Device classes H and K RHA marked devices shall meet the MIL-H-38534 specified RHA levels and shall be marked with the appropriate RHA designator. A dash (-) indicates a non-RHA device.
 - 1.2.2 <u>Device type(s)</u>. The device type(s) shall identify the circuit function as follows:

Device t	type <u>G</u>	eneric number		Circuit function	1
- 01	1	NHI-1514	standby high		(MIL-STD-1553 A and B) low power, receiver
02	2	NHI-1513	standby high		(universal transceiver) low power, receiver
03	3	BUS63102II	standby high		(universal transceiver) low power, receiver
04	4	BU\$63104II	standby high		(MIL-STD-1553 A and B) low power, receiver
05	5	3231	standby high		(MIL-STD-1553 A and B) low power, receiver
06 ar	nd 07	3232	standby high		(universal transceiver) low power, receiver
08	3	4407	standby high		(MIL-STD-1553 A and B) low power, receiver
09	9	4404	Single channel, standby high	driver-receiver	(universal transceiver) low power, receiver

1.2.3 <u>Device class designator</u>. This device class designator shall be a single letter identifying the product assurance level as follows:

Device class

Device requirements documentation

H or K

Certification and qualification to MIL-H-38534

1.2.4 Case outline(s). The case outline(s) shall be as designated in appendix C of MIL-M-38510, and as follows:

Outline letter	<u>Case outline</u>					
Т	See figure 1 (24-lead, 1.27" x 1.27" x .167"), hybrid package					
U	See figure 1 (24-lead, 1.27" x 1.27" x .167"), flat package					
X	See figure 1 (24-lead, 1.27" x 1.27" x .175"), hybrid package					
Y	See figure 1 (24-lead, 1.27" x 1.27" x .200"), flat package					
Z	See figure 1 (24-lead, 1.27" x 1.27" x .167"), hybrid package					

1.2.5 <u>Lead finish</u>. The lead finish shall be as specified in MIL-H-38534 for classes H and K. 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.

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1.3 Absolute maximum ratings. 1/ Supply voltage ranges: -0.3 V dc to +18 V dc +0.3 V dc to -18 V dc -0.3 V dc to +7 V dc -0.3 V dc to +5.5 V dc 40 Vp-p Receiver common mode input voltage range ------10 V to +10 V Driver peak output current -----±300 mA -65°C to +150°C +300°C Power dissipation (P_D) total hybrid: 100 percent duty cycle (T_C = +25°C):

Device types 01, 05, 06, and 08 - - - - - - - - 3.0 W Power dissipation (Pp) hottest die: 100 percent duty cycle: Device types 01, 04, 08, and 09 - - - - - - - - - - - - - -545 mW Device types 02 and 03 --Standby mode: Device types 01, 02, 03, 04, 08, and 09 - - - - - - - - - -Derates to zero Device types 05, 06, and 07 - - - - - - - - - - - - - - - - -750 mW Thermal resistance: 38°C/W Device types 05, 06, and 07 - - - - - - - - - - - - - - -6.5°C/W Case-to-ambient: Device types 01, 02, 03, 04, 08, and 09 -----20°C/W Device types 05, 06, and 07 - - - - - - - - - - - - - - - -Maximum junction-to-case temperature rise for the hottest die at 100 percent duty cycle: 19°C Device type 01 -----Device type 02 -----21°C Device type 03 -----42.6°C 14.3°C Device type 08 ---------28° C Device type 09 ---- 31.6°C

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^{1/} Stresses above the absolute maximum rating may cause permanent damage to the device. Extended operation at the maximum levels may degrade performance and affect reliability.

1.4 Recommended operating conditions. Vcc - - - - - - +11.4 V dc to +15.75 V dc Supply voltage range: -11.4 V dc to -15.75 V dc -11.75 V dc to -12.75 V dc 40 Vp-p Driver peak output current: Device types 01, 02, 08, and 09 - - - - - - ±180 mA Device types 03 and 04 ---- ±200 mA 2. APPLICABLE DOCUMENTS 2.1 <u>Government specifications, standards, and handbook</u>. Unless otherwise specified, the following specifications, standards, and handbook 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. SPECIFICATIONS MILITARY - Microcircuits, General Specification for. MIL-M-38510 - Hybrid Microcircuits, General Specification for. MIL-H-38534 STANDARDS MILITARY Configuration Control-Engineering Changes, Deviations and Waivers. MIL-STD-480 - Test Methods and Procedures for Microelectronics. MIL-STD-883 HANDBOOK **MILITARY** Standardized Military Drawings. MIL-HDBK-780 (Copies of the specifications, standards, and handbook 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 MIL-H-38534 and as specified herein. 3.2 Design, construction, and physical dimensions. The design, construction, and physical dimensions shall be as specified in MIL-H-38534 and herein. 3.2.1 <u>Case outline(s)</u>. The case outline(s) shall be in accordance with 1.2.4 herein and figure 1. 3.2.2 <u>Terminal connections</u>. The terminal connections shall be as specified on figure 2. 3.2.3 Test circuit. The test circuit shall be as specified on figure 3. 3.2.4 <u>Timing waveforms</u>. The timing waveforms shall be as specified on figure 4. 5962-91749 SIZE STANDARDIZED MILITARY DRAWING A DEFENSE ELECTRONICS SUPPLY CENTER SHEET REVISION LEVEL DAYTON, OHIO 45444 ٠, 4

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Test	Symbol	Conditions $\underline{1}$	Group A	Device	Limi	ts	_ Unit
		-55°C ≤ T _C ≤ +125°C unless otherwise specified	subgroups	type	Min	Max	
RECEIVER				· · · · · · · · · · · · · · · · · · ·	1	1	T
Output low voltage	v _{oL}	I _{OL} = 10 mA	1,2,3	ALL		0.5	V
Output high voltage	V _{ОН}	I _{OH} = -0.4 mA	1,2,3	ALL	2.5		V
Differential input voltage level	v _I		4,5,6	ALL		40	Vp-p
Differential input impedance	Z _{IN}	 1 MHz sinewave <u>2</u> /	4,5,6	01,02, 08,09	10		κΩ
	,			03,04, 05,06, 07	4		
Common mode input voltage range	VICR	 1 MHz sinewave, see figure 3	4,5,6	ALL	10	 	Vp-p
Input capacitance	cIN	1 MHz sinewave <u>2</u> /	4	ALL		5	pF
Threshold voltage	v _{TH}	3/ 4/ 5/	4,5,6	01,02,	0.6	1.05	Vp−p
	İ	j I		03,04	0.5	1.2	
				05,06,	0.4	1.1	
Receiver delay	t _{DR}	Input zero crossing to DATA or DATA, see figure 3 2/	4,5,6	All		450	ns
RECEIVER STROBE					1		1
Input low voltage	VSIL		1,2,3	ALL	<u> </u>	0.7	V
Input high voltage	ASIH		1,2,3	ALL	2.0		V
Input low current	ISIL	V _{SIL} = 0.4 V	1,2,3	01,02,	 -0.4		mA
				03,04	 -0.720	_!	
	<u> </u> 			 05,06, 07	-4.0	 	
See footnotes at end o	of table.						
	TANDARDI		SIZE				5962-9174
DEFENSE ELECTRONICS SUPPLY CENTER DAYTON, OHIO 45444				REVI	SION LEV	EL	SHEET

Test	Symbol		Group A	 Device	Li	mits	Unit
		-55°C ≤ T _C ≤ +125°C unless otherwise specified	subgroups	typ e	Min	Max	
RECEIVER STROBE - Conti	inued			1	1	1	
Input high current	ISIH	 V _{SIH} =2.7 V 	1,2,3	01,02, 03,04, 08,09	 	80	μΑ
				05,06,		400	
Strobe delay	t _{DS}	 Turn-on or turn-off, <u>2</u> / see figure 4	9,10,11	01,02,		200	ns
				05,06, 07,08,	 	150	
TRANSMITTER						 	
Input low voltage	v _{IL}		1,2,3	 All 		0.7	V
Input high voltage	v _{IH}		1,2,3	All	2.0		v
Input low current	IIL	 V _{IL} = 0.4 V	1,2,3	01,02	-0.4	-	mA.
				03,04,	-0.720 	_	
	į			05,06,	-1.1 		
Input high current	I	 V _{IH} = 2.7 V	1,2,3	01,02, 03,04, 08,09		 40 	<u>μ</u> Α
	 	[05,06, 07		100	
Differential output	v _o	 35Ω load <u>4</u> / 	1,2,3	ALL	6.0	9.0	Vp-p
		140Ω Load <u>2</u> / <u>6</u> /	 	ALL	24	36	
Differential output	V _{ON}	Inhibited, 35Ω load 4/	4,5,6	ALL		10	mV rms
	[[140Ω load <u>2</u> / <u>6</u> /				40	
Differential output impedance	Z _{OUT}	 1 MHz sinewave, <u>2</u> / (transmitter off)	4,5,6	ALL	10		Γ
See footnotes at end o	f table.						
STANDARDIZED MILITARY DRAWING DEFENSE ELECTRONICS SUPPLY CENTER DAYTON, OHIO 45444		AWING	SIZE A				5962-9174
		SUPPLY CENTER -		REVIS			SHEET

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Test	Symbol	Conditions $1/$ -55°C \leq T _C \leq +125°C	 Group A subgroups	Device	<u>Limi</u>		Unit
		unless otherwise specified			Min_	Max	
RANSMITTER - Continue	d	1					
Output capacitance	COUT	1 MHz sinewave <u>2</u> /	4	All		5	pF
Differential output offset voltage	vos	35Ω Load	4,5,6	ALL	-90	+90	mV pk
		 140Ω Load <u>2</u> / <u>6</u> / <u>7</u> /			-360	+360	
Receiver filter response	FILTER	f = 2 MHz <u>2</u> /	4,5,6	ALL	-4.0		dB
		 f = 4 MHz <u>2</u> /			 -13.0		
Rise time	lt _r	35Ω load, see figure 4	9,10,11	01,04,	100	 300	ns
				02,03, 05,06, 07,09		300	
Fall time	t _f	 35Ω load, see figure 4	9,10,11	01,04, 08	100	300	
				02,03, 05,06, 07,09		300	 -
Transmitter delay	tdt	 Transmitter-in to <u>2</u> / transmitter-out, see figure 4	9,10,11	ALL		550	
TRANSMITTER INHIBIT					T	<u> </u>	T
Input low voltage	VIIL		1,2,3	ALL		0.7	v
Input high voltage	VIIH		1,2,3	All	2.0	<u> </u>	v
Input low current	IIIL	V _{SIL} = 0.4 V	1,2,3	01,02			mA -
				03,04	-0.72	<u> </u>	_
				05,06 07	, -0.8		
See footnotes at end	of table.						
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Test	Symbol	Conditions 1/	Group A	Device	Limits	Unit		
	<u> </u>	-55°C ≤ T _C ≤ +125°C unless otherwise specified	subgroups	type	Min Max			
TRANSMITTER INHIBIT -	Continued		1	1	I	1		
Input high current	IIIH	 V _{SIH} = 2.7 V 	1,2,3	01,02, 03,04, 08,09	40	μ Α		
		 		05,06, 07	50	 		
Transmitter inhibit delay (high)	t _{DI-H}	 O-1 inhibited output, <u>2</u> / see figure 4 	9,10,11	 01,02, 04,05, 06,07, 08,09	450	ns		
	Ì			03				
Transmitter inhibit delay (low)	tDI-L	 1-0 active output, <u>2</u> / see figure 4 	9,10,11	01,02, 04,05, 06,07, 08,09	450			
				03				
POWER SUPPLY					,			
+Supply (V _{CC})	1 _{cc-sa}	Standby mode	1,2,3	01,02,	50	 mA 		
				03,04	30			
	 			05,06, 07	65			
-Supply	I _{EE-SB}			01,02	40			
(V _{EE})				03,04, 05,06, 07,08,	65			
+5 V supply (V _{CCL})	I _{CC1-SB}			01,02, 05,06, 07	20			
				03,04,	45			
See footnotes at end o			0.788	1		5062 0174		
S	TANDARDI	ZED	SIZE	1		5962-91749		
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Test	 Symbol	Conditions 1/	Group A	Device type	Limits		Unit
		-55°C ≤ T _C ≤ +125°C conclusion unless otherwise specified	subgroups		Min	Max	l L
OWER SUPPLY - Contin	nued						1
Supply (V _{CC})	¹ cc-50	50 percent duty cycle	4,5,6	01,02, 08,09		110	 mA
		1		03,04		114	Į
				05,06,		150	
-Supply (V _{EE})	I _{EE-50}	 		01,02, 08,09		110	
				03,04		135	
			_	05,06, 07		150	
Supply (V _{CC})	Icc-100	 100 percent duty cycle		01,02, 08,09		165	_
	İ			03,04		180	_
			_	05,06, 07		250	-
-Supply (V _{EE})	I _{EE-100}	100 percent duty cycle		01,02, 08,09	 	165	-
CE				03,04	<u> </u>	195	_
				05,06,	<u> </u> 	250	

1/ Unless otherwise specified, supply voltage ranges are as follows: (+14.9 V dc \leq V_{CC} \leq +15.1 V dc), (-14.9 V dc \leq V_{EE} \leq -15.1 V dc), and (+4.9 V dc \leq V_{CCL} \leq 5.1 V dc). 2/ Parameter shall be tested as parameter of initial characterization and after design and process

changes. Parameters shall be guaranteed to the limits specified in table I.

3/ Threshold determined by first missing word of a 33 word transmission to a Harris HD-15530 CMOS Manchester encoder-decoder.

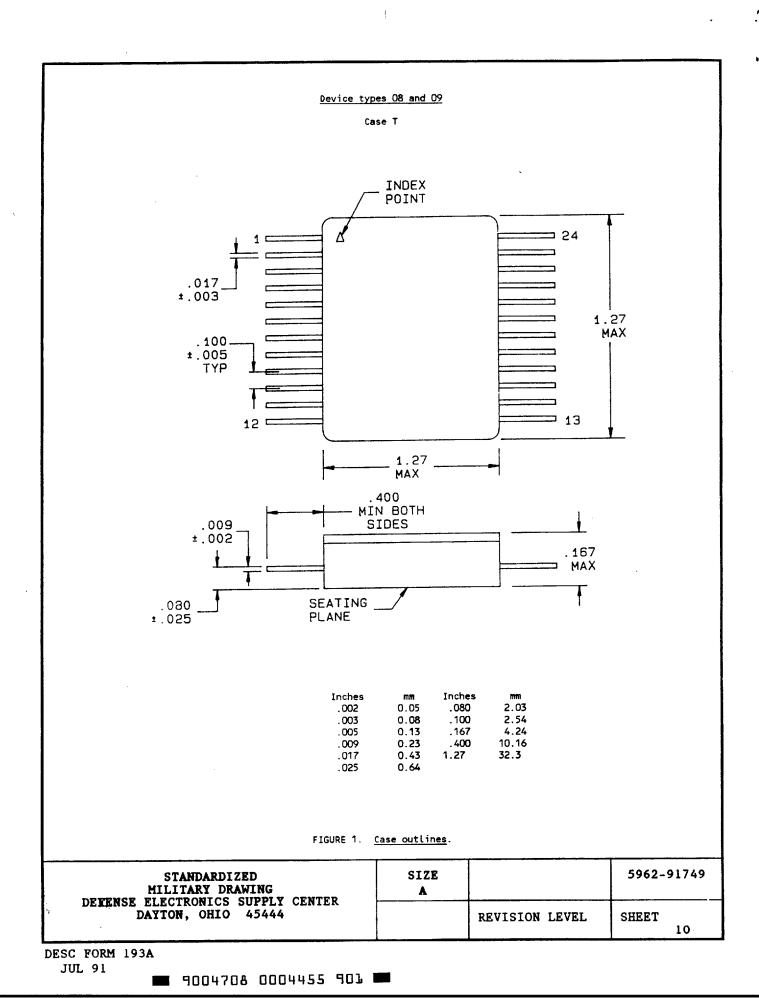
4/ Measured at point AA' of figure 5. 5/ Assumes the internal threshold option is used.

 $\frac{6}{7}$ Measured at point BB' of figure 5. $\frac{6}{7}$ Offset is measured 2.5 μ s after the mid-bit zero crossing of the last parity bit of a 600 μ s transmission cycle of contiguous words (no dead time in between words).

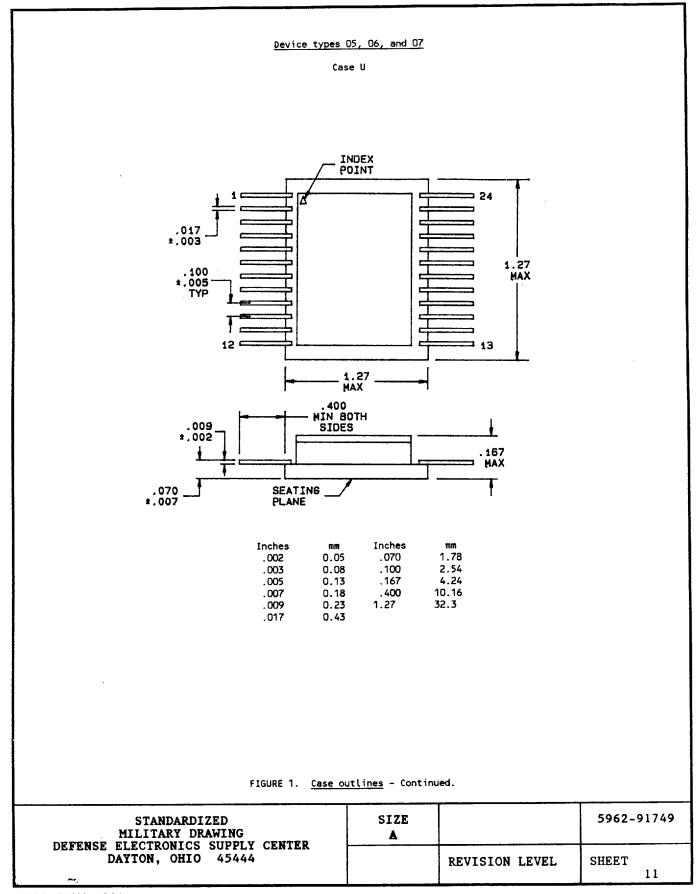
STANDARDIZED MILITARY DRAWING	SIZE A		5962-91749
DEFENSE ELECTRONICS SUPPLY CENTER DAYTON, OHIO 45444		REVISION LEVEL	SHEET 9

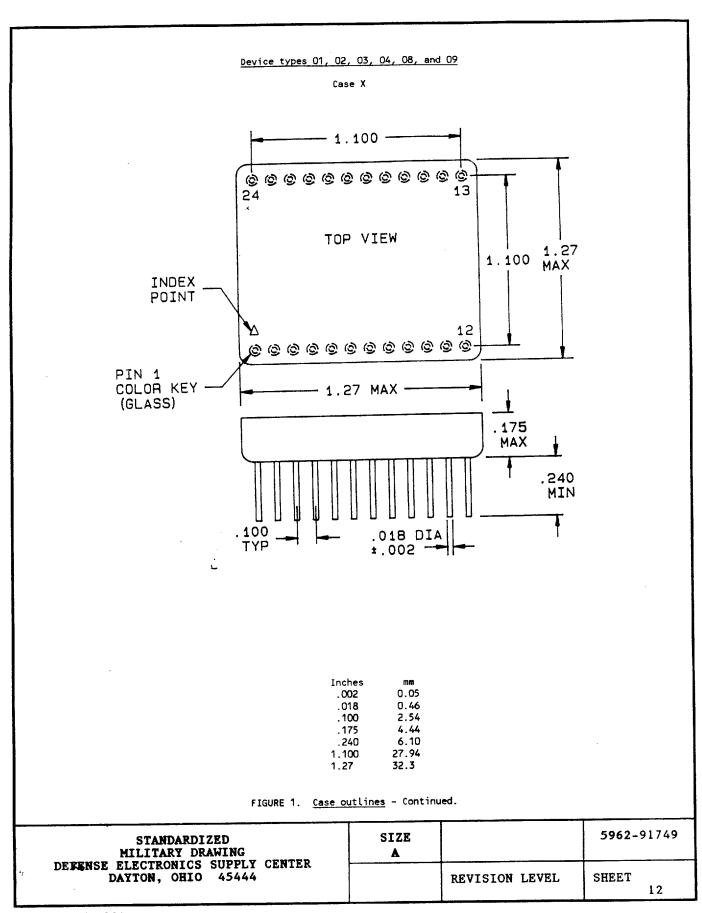
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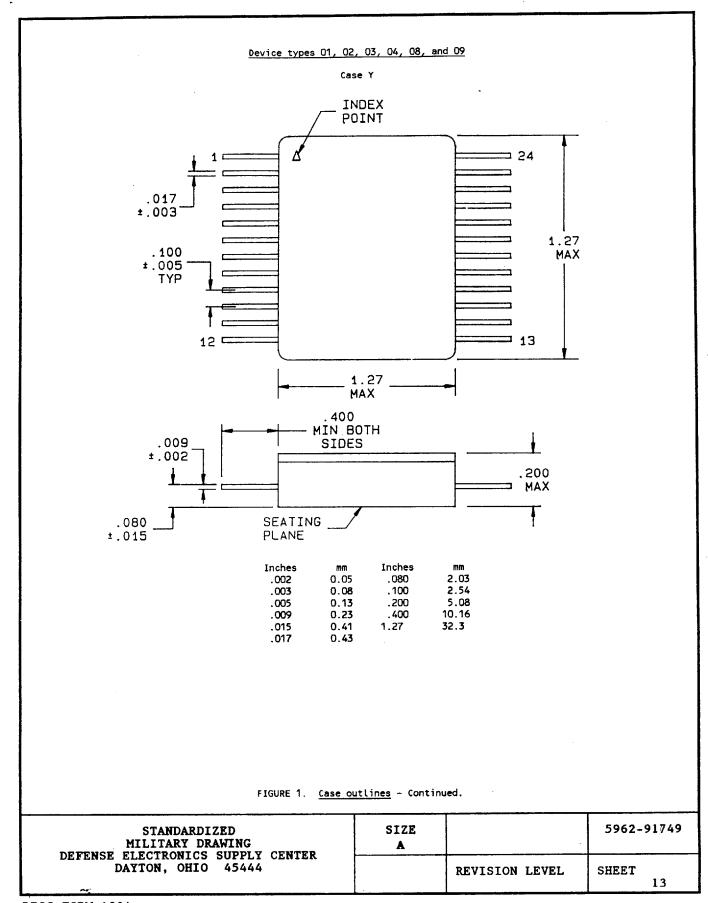
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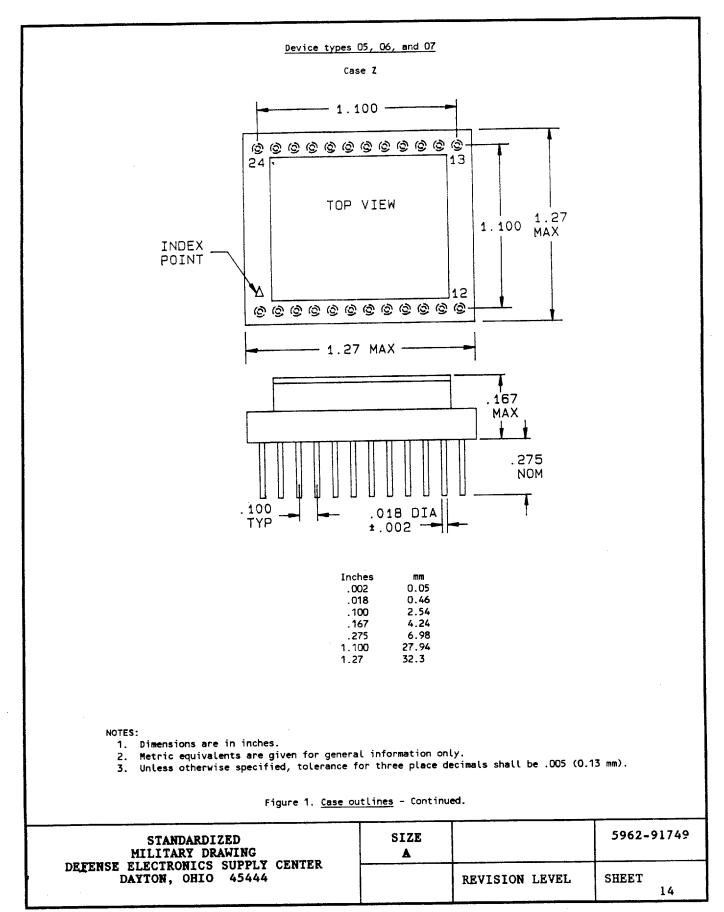




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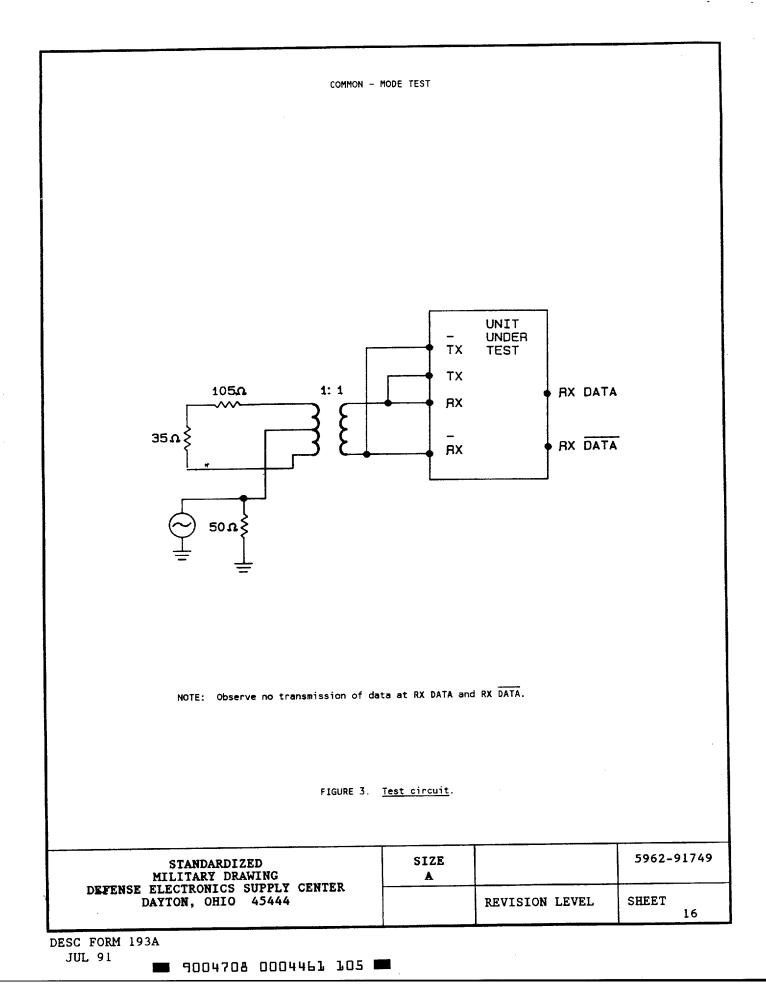
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Pin	Function	Pin	Function
1	TX DATA OUT	13	V _{CC} RX
2	TX DATA OUT	14	NC
3	GND C	15	RX DATA IN
4	v _{cc} TX	16	RX DATA IN
5	EXTERNAL DATA THRESHOLD	17	GND A
6	INTERNAL DATA THRESHOLD	 18	CASE GND
7	RX DATA OUT	 19 	V _{EE} RX
8	STROBE	 20 	V _{CCL}
9	GND B	 21	TX INHIBIT
10	RX DATA OUT	 22 	TX DATA IN
11	INTERNAL DATA THRESHOLD		TX DATA IN
12	EXTERNAL DATA THRESHOLD	 24 	v _{EE} TX

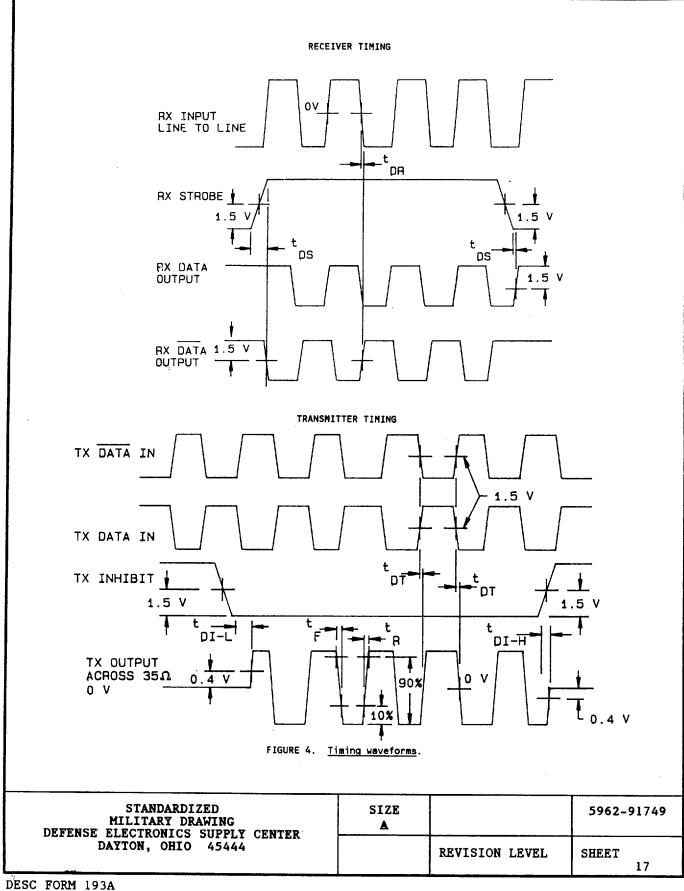
FIGURE 2. Terminal connections.

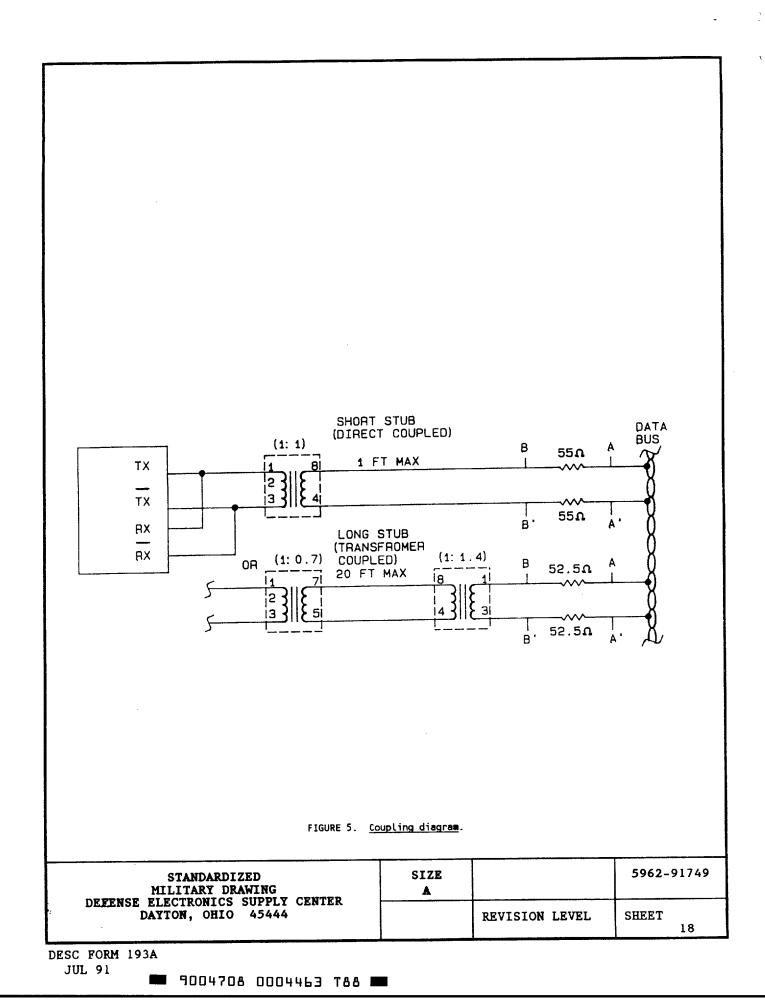
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- 3.2.5 Coupling diagram. The coupling diagram shall be as specified on figure 5.
- 3.3 <u>Electrical performance characteristics</u>. Unless otherwise specified herein, the electrical performance characteristics are as specified in table I and shall apply over the full specified 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-H-38534. 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 QML-38534.
- 3.6 Manufacturer eligibility. In addition to the general requirements of MIL-H-38534, the manufacturer of the part described herein shall submit for DESC-ECT review and approval electrical test data (variables format) on 22 devices from the initial quality conformance inspection group A lot sample, produced on the certified line, for each device type listed herein. The data should also include a summary of all parameters manually tested, and for those which, if any, are guaranteed.
- 3.7 <u>Certificate of compliance</u>. A certificate of compliance shall be required from a manufacturer in order to supply to this drawing. The certificate of compliance submitted to DESC-ECT shall affirm that the manufacturer's product meets the requirements of MIL-H-38534 and the requirements herein.
- 3.8 <u>Certificate of conformance</u>. A certificate of conformance as required in MIL-H-38534 shall be provided with each lot of microcircuits delivered to this drawing.
 - 4. QUALITY ASSURANCE PROVISIONS
 - 4.1 Sampling and inspection. Sampling and inspection procedures shall be in accordance with MIL-H-38534.

TABLE II. <u>Electrical test requirements</u>.

MIL-STD-883 test requirements	Subgroups (per method 5008, group A test table)
Interim electrical parameters	1
Final electrical test parameters	 1*, 2, 3, 4, 5, 6, 9,
Group A test requirements	1, 2, 3, 4, 5, 6, 9, 10, 11
Group C end-point electrical parameters	1, 2, 3
Group E end-point electrical parameters for RHA devices	Subgroups ** (per method 5005, group A test table)

*PDA applies to subgroup 1.
**When applicable to this standardized military drawing,
the subgroups shall be defined.

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- 4.2 Screening. Screening shall be in accordance with MIL-H-38534. 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 3.7 herein).
 - (2) T_A as specified in accordance with table I of method 1015 of MIL-STD-883.
 - 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 MIL-H-38534 and as specified herein.
 - 4.3.1 Group A inspection. Group A inspection shall be in accordance with MIL-H-38534 and as follows:
 - a. Tests shall be as specified in table II herein.
 - b. Subgroups 7 and 8 shall be omitted.
 - 4.3.2 Group B inspection. Group B inspection shall be in accordance with MIL-H-38534.
- 4.3.3 Group C inspection. Group C inspection shall be in accordance with MIL-H-38534 and as follows:
 - 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 using the circuit submitted with the certificate of compliance (see 3.7 herein).
 - (2) T_A as specified in accordance with table I of method 1005 of MIL-STD-883.
 - (3) Test duration: 1,000 hours, except as permitted by method 1005 of MIL-STD-883.
 - 4.3.4 Group D inspection. Group D inspection shall be in accordance with MIL-H-38534.
- 4.3.5 Group E inspection. Group E inspection is required only for parts intended to be marked as radiation hardness assured (see 3.5 herein). RHA levels for device classes H and K shall be M, D, R, and H. RHA quality conformance inspection sample tests shall be performed at the RHA level specified in the acquisition document.
 - a. RHA tests for device classes H and K for levels M, D, R, and H shall be performed through each level to determine at what levels the devices meet the RHA requirements. These RHA tests shall be performed for initial qualification and after design or process changes which may affect the RHA performance of the device.
 - b. End-point electrical parameters shall be as specified in table II herein.
 - c. 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.
 - d. For device classes H and K, the devices shall be subjected to radiation hardness assured tests as specified in MIL-H-38534 for RHA level being tested, and meet the postirradiation end-point electrical parameter limits as defined in table I at T_A = +25°C ±5 percent, after exposure.
 - e. Prior to and during total dose irradiation testing, the devices shall be biased to establish a worst case condition as specified in the radiation exposure circuit.
 - f. For device classes H and K, subgroups 1 and 2 in table V, method 5005 of MIL-STD-883 shall be tested as appropriate for device construction.
 - g. When specified in the purchase order or contract, a copy of the RHA delta limits shall be supplied.

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- PACKAGING
- 5.1 Packaging requirements. The requirements for packaging shall be in accordance with MIL-H-38534.
- 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.
- 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-481 using DD Form 1693, Engineering Change Proposal (Short Form).
- 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 microelectronic devices (FSC 5962) should contact DESC-ECT, telephone (513) 296-6047.
- 6.5 <u>Comments</u>. Comments on this drawing should be directed to DESC-ECT, Dayton, Ohio 45444, or telephone (513) 296-5374.
- 6.6 One part one part number system. The one part one part number system described below has been developed to allow for transitions between identical generic devices covered by the four major microcircuit requirements documents (MIL-M-38510, MIL-H-38534, MIL-I-38535, and 1.2.1 of MIL-STD-883) without the necessity for the generation of unique PIN's. The four military requirements documents represent different class levels, and previously when a device manufacturer upgraded military product from one class level to another, the benefits of the upgraded product were unavailable to the Original Equipment Manufacturer (OEM), that was contractually locked into the original unique PIN. By establishing a one part number system covering all four documents, the OEM can acquire to the highest class level available for a given generic device to meet system needs without modifying the original contract parts selection criteria.

Military documentation format	Example PIN under new system	Manufacturing source listing	Document <u>listing</u>
New MIL-M-38510 Military Detail Specifications (in the SMD format)	5962-XXXXXZZ(B or \$)YY	QPL-38510 (Part 1 or 2)	MIL-BUL-103
New MIL-H-38534 Standardized Military Drawings	5962-XXXXXZZ(H or K)YY	QML-38534	MIL-BUL-103
New MIL-I-38535 Standardized Military Drawings	5962-XXXXXZZ(Q or V)YY	QML-38535	MIL-BUL-103
New 1.2.1 of MIL-STD-883 Standardized Military Drawings	5962-XXXXXZZ(M)YY	MIL-BUL-103	MIL-BUL-103

6.7 <u>Sources of supply for device classes H and K</u>. Sources of supply for device classes H and K are listed in QML-38534. The vendors listed in QML-38534 have submitted a certificate of compliance (see 3.7 herein) to DESC-ECT and have agreed to this drawing.

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