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

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≦询"59	62-8765701GA"供应商			
1.	SCOPE			
with 1	Scope. This drawing descr .2.1 of MIL-STD-883, "Provis N devices".	bes device requirents to the use of the use	ments for class B mic f MIL-STD-883 in conj	rocircuits in accordance unction with compliant
1.2	Part number. The complete	part number shall	be as shown in the fo	llowing example:
	5962-87657 	01	<u>G</u> 	<u>X</u>
	Drawing number	Device type (1.2.1)	Case outline (1.2.2)	Lead finish per MIL-M-38510
1.2.	1 <u>Device type</u> . The device	type shall identify	y the circuit functio	n as follows:
	Device type Generic nur	<u>nber</u>	Circuit functio	<u>n</u>
	01 1590		Wideband amplifier	with AGC
1.2. follow	2 <u>Case outline</u> . The case or s:	utline shall be as	designated in appendi	x C of MIL-M-38510, and as
	Outline letter		Case outline	
	G		A-1 (8-lead, .370"	x .185"), can package
1.3	Absolute maximum ratings			
	Power supply voltage (V_{CC}) Output supply AGC supply Differential input, voltage Storage temperature range Lead temperature (soldering Junction temperature (T_J) Power dissipation (P_D) - Thermal resistance (θ_{JC}) Thermal resistance (θ_{JA})	g, 60 seconds)		
1.4	Recommended operating cond			
	Power supply voltage (V $_{\rm CC}$) Ambient operating temperat	ure range (T _A)	6 V dc t 55 to +	o 15.0 V dc 125°C

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2. APPLICABLE DOCUMENTS

2.1 Government specification and standard. Unless otherwise specified, the following specification and standard, 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.

(Copies of the specification and standard 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

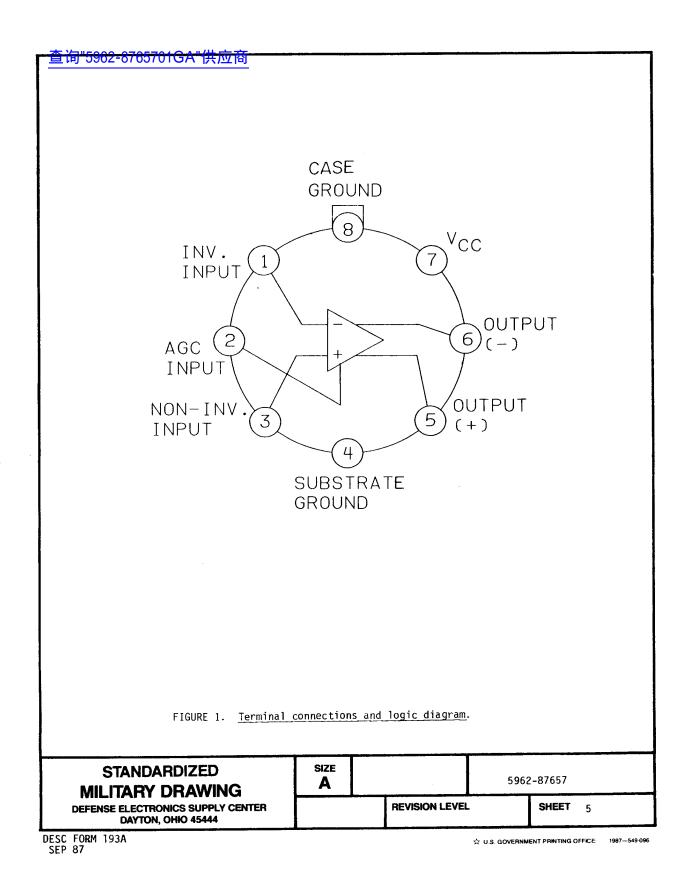
- 3.1 Item requirements. The individual item requirements shall be in accordance with 1.2.1 of MIL-STD-883, "Provisions for the use of MIL-STD-883 in conjunction with compliant non-JAN devices" and as specified herein.
- $3.2\,$ Design, construction, and physical dimensions. The design, construction, and physical dimensions shall be as specified in MIL-M-38510 and herein.
- 3.2.1 Terminal connections and logic diagram. The terminal connections and logic diagram shall be as specified on figure 1.
 - 3.2.2 Case outline. The case outline shall be in accordance with 1.2.2 herein.
- 3.3 Electrical performance characteristics. Unless otherwise specified, the electrical performance characteristics are as specified in table I and apply over the full ambient operating temperature range.
- 3.4 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 6.4 herein.
- 3.5 <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 6.4. 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.
- 3.6 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.
- 3.7 Notification of change. Notification of change to DESC-ECS shall be required in accordance with MIL-STD-883 (see 3.1 herein).

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Test	 Symbol	Conditions $1/$			Limi	ts	Unit
	 	-55°C <	T _{A <} +125°C rwise specified)	subgroups	Min	Max	<u> </u>
Power supply current drain	Icc] 		1 1		17	mA
		1		2, 3	<u> </u>	20	
Minimum AGC	MAGC	$V_2(AGC) = 5.0$	to 7.0 V dc	4	-60		l dB
	 	 		5, 6	-58		T
Output voltage	· UUR	AGC = 0 dB		4	6.5		 V _{P-P}
swing <u>2</u> /	single ended	<u> </u>		5, 6	5.0		ļ
		AGC = -30 dB		4	2.5		i
		1		5, 6	2.0		ļ
	VODR differ-	AGC = 0 dB		4	13		
	differ- ential 			5, 6	10		1
		AGC = -30 dB		4	5.0		<u> </u>
	<u> </u>			5, 6	4.0		
Output stage current (sum of	Io			1 1	4.0	7.5	mA
pins 5 and 6)	ļ	l 		2, 3	3.5	8.0	<u> </u>
Single-ended power	 A _P	$R_S = R_L = 50\Omega$	·	4	40	=	dB
gain				5, 6	37		
Noise figure specifications	Nf	 R _S = Adjust fo (approximate	or minimum noise ely 300Ω)	4	 	7.0	dB
Alternate procedure		$R_S = 50\Omega$			1	8.0	
Single-ended voltage gain	Ay	 f = 10 kHz 		4	40 		dB
$\frac{1}{2}$ / V _{CC} = +12 V dc $\frac{2}{2}$ / Guaranteed if	, unless not teste	otherwise noted	1.				
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- 3.8 <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 section 4 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 conditions A, B, C, or D using the circuit submitted with the certificate of compliance (see 3.4 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 $\overline{5005}$ 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 7, 8, 9, 10, and 11 in table I, method 5005 of MIL-STD-883 shall be omitted.
 - 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 using the circuit submitted with the certificate Of compliance (see 3.5 herein).
 - (2) $T_A = +125^{\circ}C$, minimum.
 - (3) Test duration: 1,000 hours, except as permitted by method 1005 of MIL-STD-883.

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查询"5962-8765701GA"供应商 TABLE II. Electrical test requirements.

 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, 4, 5, 6
 Group A test requirements (method 5005)	1, 2, 3, 4, 5,
 Groups C and D end-point electrical parameters (method 5005)	1, 2, 3

^{*} PDA applies to subgroup 1.

5. 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 <u>Comments</u>. Comments on this drawing should be directed to DESC-ECS, Dayton, Ohio 45444, or telephone 513-296-5375.

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6.4 Approved source of supply. An approved source of supply is listed herein. Additional sources will be added as they become available. The vendor listed herein has agreed to this drawing and a certificate of compliance (see 3.5 herein) has been submitted to DESC-ECS.

	Military drawing part number	Vendor CAGE number	Vendor <u>1</u> / similar part number	Replacement military specification part number
	5962-8765701GX	04713	1590/BGAJC	

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 04713

Vendor name and address

Motorola, Incorporated 7402 S. Price Road Tempe, AZ 85283

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