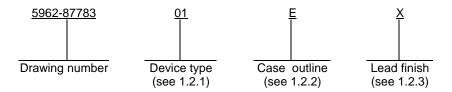
						F	REVISION	ONS										
LTR				DESCF	RIPTION	٧					DA	TE (YF	R-MO-I	DA)		APPI	ROVED)
А	Changes to vendor CAC	Changes to input bias current and input offset current test conditions. Delete vendor CAGE 64762. Update boilerplate. –lgt					te	97-10-15		R. MONNIN		l						
В	Replaced re	ference to I	ЛIL-STE)-973 wi	th refer	ence to	MIL-P	RF-385	535rr	р		04-0	1-27			R. M	MONNIN	J
THE ORIGINAL	L FIRST SHEE	T OF THIS	ORAWII	NG HAS	BEEN	REPL	ACED.											
THE ORIGINAL	L FIRST SHEE	T OF THIS	DRAWII	NG HAS	BEEN	REPLA	ACED.											
	L FIRST SHEE	T OF THIS	DRAWII	NG HAS	BEEN	REPLA	ACED.											
REV SHEET	L FIRST SHEE	T OF THIS	DRAWII	NG HAS	BEEN	REPLA	ACED.											
REV	L FIRST SHEE	T OF THIS	DRAWII	NG HAS	BEEN	REPL/	ACED.											
REV SHEET REV			DRAWII	NG HAS	BEEN	REPL/	ACED.	В	В	В	В	В	В	В	В			
REV SHEET REV SHEET		RI		NG HAS				B 4	B 5	B 6	B 7	B 8	B 9	B 10	B 11			
REV SHEET REV SHEET REV STATUS OF SHEETS PMIC N/A	NDARD	RI SI PR	EV HEET EPARE L.G. TR	D BY AYLOR	B 1	В	В		5	6 EFEN	7 SE SI COLI	8 JPPL UMBI	9 Y CE JS, O		11 COL 43216		BUS	
REV SHEET REV SHEET REV STATUS OF SHEETS PMIC N/A STA MICRO DRA THIS DRAWII FOR U DEPA	NDARD DCIRCUIT AWING NG IS AVAILAI ISE BY ALL RTMENTS	RI SI PR	EV HEET EPARE L.G. TR RAJES	D BY AYLOR O BY SH PITH	B 1	B 2	В	MIC PRO	DI CROC	6 EFEN	7 SE SI COLI http	JPPL UMBU ://ww	y CE JS, O w.ds	10 NTER	11 R COL 43216 a.mil	ANNE		
REV SHEET REV SHEET REV STATUS OF SHEETS PMIC N/A STA MICRO DRA THIS DRAWII FOR U DEPA AND AGEI DEPARTMEN	NDARD DCIRCUIT AWING NG IS AVAILAI USE BY ALL RTMENTS NCIES OF THE NT OF DEFEN	RI SI PR CH	EV HEET EPARE L.G. TR RAJES	D BY AYLOR BH PITH	B 1 ADIA	B 2	В	MIC PRO	DI DI CROCOGRA	6 EFEN	7 SE SI COLI http	JPPL UMBU ://ww	y CE JS, O w.ds	NTER HIO scc.dl	11 R COL 43216 a.mil	ANNE		
REV SHEET REV SHEET REV STATUS OF SHEETS PMIC N/A STA MICRO DRA THIS DRAWII FOR U DEPA AND AGEI DEPARTMEN	NDARD DCIRCUIT AWING NG IS AVAILAI ISE BY ALL RTMENTS NCIES OF THE	RI SI PR CH AI BLE	EV HEET EPARE L.G. TR HECKED RAJES	ED BY RAYLOR O BY SH PITH ED BY OND MC 89-07-2	B 1 ADIA DINNIN	B 2	В	MIC PRO	DI DI CROCOGRA	6 EFEN: CIRCUAMM.	7 SE SI COLI http	JPPL UMBU :://ww	y CE JS, O w.ds	NTER HIO acc.dl	11 R COL 43216 a.mil	ANNE	EL HIC	

1. SCOPE

- 1.1 <u>Scope</u>. This drawing describes device requirements for MIL-STD-883 compliant, non-JAN class level B microcircuits in accordance with MIL-PRF-38535, appendix A.
 - 1.2 Part or Identifying Number (PIN). The complete PIN is as shown in the following example:



1.2.1 <u>Device type(s)</u>. The device type(s) identify the circuit function as follows:

Device type	Generic number	<u>Circuit function</u>
01	HA-2400	Four channel programmable amplifier

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

Outline letter	Descriptive designator	<u>Terminals</u>	Package style
E	GDIP1-T16 or CDIP2-T16	16	Dual-in-line
2	CQCC1-N20	20	Square leadless chip carrier

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

Differential input voltage	
Differential input voltage	
Output current (short-circuit protected) ±33 mA	
Storage temperature range65°C to +150°C	
Internal power dissipation (P _D)	
Lead temperature (soldering, 10 seconds)+275°C	
Thermal resistance, junction-to-case (θ_{JC}):	
Cases E and 2 See MIL-STD-183	35
Thermal resistance, junction-to-ambient (θ_{JA}):	
Case E 91°C/W	
Case 2 88°C/W	
Junction temperature (T _J)+175°C	

1.4 Recommended operating conditions.

Positive supply voltage (+V _{CC})	+15 V dc
Negative supply voltage (-V _{CC})	-15 V dc
Ambient operating temperature range (T _A)	-55°C to +125°C

STANDARD	S
MICROCIRCUIT DRAWING	
DEFENSE SUPPLY CENTER COLUMBUS COLUMBUS, OHIO 43216-5000	

SIZE A		5962-87783
	REVISION LEVEL B	SHEET 2

2. APPLICABLE DOCUMENTS

2.1 <u>Government specification, standards, and handbooks</u>. The following specification, standards, and handbooks form a part of this drawing to the extent specified herein. Unless otherwise specified, the issues of these documents are those listed in the issue of the Department of Defense Index of Specifications and Standards (DoDISS) and supplement thereto, cited in the solicitation.

SPECIFICATION

DEPARTMENT OF DEFENSE

MIL-PRF-38535 -- Integrated Circuits, Manufacturing, General Specification for.

STANDARDS

DEPARTMENT OF DEFENSE

MIL-STD-883 - Test Method Standard Microcircuits.

MIL-STD-1835 - Interface Standard Electronic Component Case Outlines.

HANDBOOKS

DEPARTMENT OF DEFENSE

MIL-HDBK-103 -- List of Standard Microcircuit Drawings.

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 <u>Item requirements</u>. 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 <u>Design, construction, and physical dimensions</u>. The design, construction, and physical dimensions shall be as specified in MIL-PRF-38535, appendix A and herein.
 - 3.2.1 <u>Case outline(s)</u>. The case outline(s) shall be in accordance with 1.2.2 herein.
 - 3.2.2 Terminal connections. The terminal connections shall be as specified on figure 1.
 - 3.2.3 <u>Truth table(s)</u>. The truth table(s) shall be as specified on figure 2.
- 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 ambient 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.

STANDARD MICROCIRCUIT DRAWING	SIZE A		5962-87783
DEFENSE SUPPLY CENTER COLUMBUS COLUMBUS, OHIO 43216-5000		REVISION LEVEL B	SHEET 3

TABLE I. Electrical performance characteristics.

Test	Symbol	Conditions $\underline{1}/$ -55°C \leq T _A \leq +125°C unless otherwise specified	Group A subgroups	Device type	Li	mits	Unit
				,	Min	Max	1
Input offset voltage	V _{IO}	$V_{CM} = 0 V$	1	01		±9.0	mV
			2, 3			±11	1
Input bias current	+I _{IB}	$V_{CM} = 0 \text{ V}, +R_S = 10 \text{ k}\Omega,$	1	01		±200	nA
		$-R_S = 100 \Omega$	2, 3			±400	
	-I _{IB}	$V_{CM} = 0 \text{ V}, +R_S = 100 \Omega,$	1			±200	
		$-R_S = 10 \text{ k}\Omega$	2, 3			±400	
Input offset current	I _{IO}	$V_{CM} = 0 \text{ V}, +R_S = 10 \text{ k}\Omega,$	1	01		±50	nA
		$-R_S = 10 \text{ k}\Omega$	2, 3			±100	1
Common mode input	+V _{CM}	+V _{CC} = 6.0 V,	1, 2, 3	01	9.0		V
voltage range		-V _{CC} = -24 V,					
		$V_{OUT} = -9.0 \text{ V}$					
	-V _{CM}	+V _{CC} = +24 V,			-9.0		
		$-V_{CC} = -6.0 \text{ V},$					
		V _{OUT} = 9.0 V					
Large signal voltage gain	A _V	$V_{OUT} = -10 \text{ V to } +10 \text{ V},$	4	01	50		kV/V
		$R_L = 2 k\Omega$	5, 6		25		
Common mode rejection	+CMRR	$\Delta V_{CM} = +5.0 \text{ V},$	1, 2, 3	01	80		dB
ratio		$+V_{CC} = +10 \text{ V},$					
		$-V_{CC} = -20 \text{ V},$					
		$V_{OUT} = -5.0 \text{ V}$	1				
	-CMRR	$\Delta V_{CM} = +5.0 \text{ V},$			80		
		$+V_{CC} = +20 \text{ V},$					
		$-V_{CC} = -10 \text{ V},$					
Output valtage eving	.\/	V _{OUT} = 5.0 V	4.5.6	01	10		V
Output voltage swing	+V _{OUT}	$R_L = 2 k\Omega$	4, 5, 6	01	-10		- V
Output current	+l _{OUT}	V _{OUT} = 10 V,	4	01	10		mA
Output current	+IOUT	$T_A = +25^{\circ}C$	4	01	10		IIIA
	-l _{OUT}	$V_{OUT} = -10 \text{ V},$	+		-10		+
	1001	$T_A = +25^{\circ}C$					
Supply current	+I _{CC}	V _{OUT} = 0 V	1	01		6.0	mA
11 7			2, 3			7.0	1
	+l _{CC}		1			-6.0	1
			2, 3			-7.0	†

See footnotes at end of table.

STANDARD MICROCIRCUIT DRAWING	SIZE A		5962-87783
DEFENSE SUPPLY CENTER COLUMBUS COLUMBUS, OHIO 43216-5000		REVISION LEVEL B	SHEET 4

	TABLE	I. Electrical performance chara	acteristics – Co	ntinued.			
Test	Symbol	Conditions $\underline{1}/$ -55°C \leq T _A \leq +125°C unless otherwise specified	Group A subgroups	Device type	Li	mits	Unit
				,	Min	Max	
Power supply rejection	+PSRR1	+V _{CC} = 20 V, -V _{CC} = -15 V	1, 2, 3	01	74		dB
ratio	+PSRR2	+V _{CC} = 10 V, -V _{CC} = -15 V			74		
	-PSRR1	+V _{CC} = 15 V, -V _{CC} = -20 V			74		
	-PSRR2	$+V_{CC} = 15 \text{ V}, -V_{CC} = -10 \text{ V}$	1		74		
Crosstalk	Ст	$V_{IN} = \pm 10 \text{ V}, T_A = +25^{\circ}\text{C}$	1	01	-80		dB
Digital input current	I _{IL}	V _{IL} = 0 V	1, 2, 3	01		1.5	mA
	I _{IH}	V _{IH} = 5.0 V	1			1.0	μΑ
Slew rate	+SR1	$V_{OUT} = -5.0 \text{ V to } +5.0 \text{ V},$	7	01	6		V/µs
		$A_V = +1, R_L = 2.0 \text{ k}\Omega,$	8		5	1	1
		$C_L = 50 \text{ pF},$					
		C _{COMP} = 15 pF					
	-SR1	$V_{OUT} = +5.0 \text{ V to } -5.0 \text{ V},$	7		6		
		$A_V = +1, R_L = 2.0 \text{ k}\Omega,$	8		5		
		$C_L = 50 \text{ pF},$					
		C _{COMP} = 15 pF					
Slew rate 2/	+SR2	$V_{OUT} = -5.0 \text{ V to } +5.0 \text{ V},$	7	01	20		V/µs
		$A_V = +10, R_L = 2.0 \text{ k}\Omega,$	8		17		
		$C_L = 50 \text{ pF},$					
		$C_{COMP} = 0 pF$					
	-SR2	$V_{OUT} = +5.0 \text{ V to } -5.0 \text{ V},$	7		20		
		$A_V = +10, R_L = 2.0 \text{ k}\Omega,$	8		17		
		$C_L = 50 \text{ pF},$					
		$C_{COMP} = 0 pF$					
Rise time	t _{r1}	$V_{OUT} = 0 \text{ to } +200 \text{ mV},$	7	01		45	ns
		$A_V = +1, R_L = 2.0 \text{ k}\Omega,$	8			55	
		$C_L = 50 \text{ pF},$					
		C _{COMP} = 15 pF					
	t _{r2}	$V_{OUT} = 0 \text{ to } +200 \text{ mV}, \underline{2}/$	7			45	
		$A_V = +10, R_L = 2.0 \text{ k}\Omega,$	8			55	
		$C_L = 50 \text{ pF},$					
		C _{COMP} = 0 pF					
Fall time	t _{f1}	$V_{OUT} = 0 \text{ to -200 mV},$	7	01		45	ns
		$A_V = +1, R_L = 2.0 \text{ k}\Omega,$	8			55	
		$C_L = 50 \text{ pF},$					
		C _{COMP} = 15 pF				ļ	
	t _{f2}	$V_{OUT} = 0 \text{ to } -200 \text{ mV},$	7			45	
		$A_V = +10, R_L = 2.0 \text{ k}\Omega,$	8			55	
		$C_L = 50 \text{ pF},$					
		$C_{COMP} = 0 pF$					

See footnotes at end of table.

STANDARD MICROCIRCUIT DRAWING	SIZE A		5962-87783
DEFENSE SUPPLY CENTER COLUMBUS COLUMBUS, OHIO 43216-5000		REVISION LEVEL B	SHEET 5

	TABLE	I. Electrical performance chara	acteristics - Co	ntinued.			
Test	Symbol		Group A subgroups	Device type	Li	Limits	
					Min	Max	
Overshoot	+OS ₁	$V_{OUT} = 0 \text{ to } +200 \text{ mV},$	7	01		40	%
		$A_V = +1, R_L = 2.0 \text{ k}\Omega,$	8			50	
		$C_L = 50 \text{ pF},$					
		$C_{COMP} = 15 pF$					
	-OS ₁	$V_{OUT} = 0 \text{ to } -200 \text{ mV},$	7			40	
		$A_V = +1, R_L = 2.0 \text{ k}\Omega,$	8			50	
		$C_L = 50 \text{ pF},$					
		C _{COMP} = 15 pF					
	+OS ₂	$V_{OUT} = 0 \text{ to } +200 \text{ mV},$	7			40	
		$A_V = +10, R_L = 2.0 \text{ k}\Omega,$	8			50	
		$C_L = 50 \text{ pF},$					
		$C_{COMP} = 0 pF$ $\underline{2}$					
	-OS ₂	$V_{OUT} = 0 \text{ to } -200 \text{ mV},$	7			40	
		$A_V = +10, R_L = 2.0 \text{ k}\Omega,$	8			50	
		$C_L = 50 \text{ pF},$					
		$C_{COMP} = 0 pF$ $\underline{2}$					
Unity gain bandwidth 2/	UGBW	$A_V = +1, R_L = 2.0 \text{ k}\Omega,$	4	01	4		MHz
		$C_L = 50 \text{ pF},$					
		$C_{COMP} = 15 pF,$					
		T _A = +25°C					
Gain bandwidth product	GBWP	$A_V = +10, R_L = 2.0 \text{ k}\Omega,$	4	01	20		MHz
<u>2</u> /		$C_L = 50 \text{ pF},$					
		$C_{COMP} = 0 pF,$					
		T _A = +25°C					
Full power bandwidth	FPBW ₁	$V_0 = \pm 10 \text{ V},$	4	01	95		kHz
<u>2</u> / <u>3</u> /		$A_V = +1, R_L = 2.0 \text{ k}\Omega,$	5, 6		79		
		$C_L = 50 \text{ pF},$,				
		$C_{COMP} = 15 pF$					
	FPBW ₂	$V_0 = \pm 10 \text{ V},$	4		300	†	†
	_	$A_V = +10, R_L = 2.0 \text{ k}\Omega,$	5, 6		270	1	1
		$C_L = 50 \text{ pF},$					
		$C_{COMP} = 0 pF$					

See footnotes at end of table.

STANDARD MICROCIRCUIT DRAWING	SIZE A		5962-87783
DEFENSE SUPPLY CENTER COLUMBUS COLUMBUS, OHIO 43216-5000		REVISION LEVEL B	SHEET 6

TABLE I. <u>Electrical performance characteristics</u> – Continued.								
Tes	t	Symbol		Group A subgroups	Device type	Li	mits	Unit
						Min	Max	
Settling time	<u>2</u> /	ts	$\begin{split} &V_{\text{ENABLE}} = +5.0 \text{ V} \\ &\text{(or Decode Control),} \\ &AV = +1, C_{\text{COMP}} = 15 \text{ pF,} \\ &R_{\text{L}} = 2.0 \text{ k}\Omega, C_{\text{L}} = 50 \text{ pF,} \\ &V_{\text{O}} = 10 \text{ V}_{\text{P-P}} \text{ to 0.1\% final} \\ &\text{value, T}_{\text{A}} = +25^{\circ}\text{C} \end{split}$	7	01		2.5	μѕ
Output delay	2/	t _d	50% of Enable (or Decode Control) to 10% of output, $V_{\text{ENABLE}} = +5.0 \text{ V}$ (or Decode Control), $T_{\text{A}} = +25^{\circ}\text{C}$	9	01		250	ns

^{1/} +V_{CC} = +15 V, -V_{CC} = -15 V, R_S = 100 Ω , R_L = 500 k Ω , and V_{OUT} = 0 V, unless otherwise specified. Digital inputs: V_{IL} = +0.5 and V_{IH} = +2.4 V. Limits apply to each of the four channels, when addressed. See figure 2 herein.

- 2/ Parameters shall be characterized at initial device design and after major process or design change which affects these parameters. Sample size = 15 minimum.
- 3/ Full power bandwidth = $\frac{SR}{2\pi V(pk)}$
- 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.
- 3.5.1 <u>Certification/compliance mark.</u> A compliance indicator "C" shall be marked on all non-JAN devices built in compliance to MIL-PRF-38535, appendix A. The compliance indicator "C" shall be replaced with a "Q" or "QML" certification mark in accordance with MIL-PRF-38535 to identify when the QML flow option is used.
- 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 DSCC-VA 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 Notification of change. Notification of change to DSCC-VA shall be required in accordance with MIL-PRF-38535, appendix A.
- 3.9 <u>Verification and review</u>. DSCC, DSCC'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.

STANDARD
MICROCIRCUIT DRAWING
DEFENSE SUPPLY CENTER COLUMBUS

COLUMBUS, OHIO 43216-5000

SIZE A		5962-87783
	REVISION LEVEL B	SHEET 7

Device type	01		
Case outlines	Е	2	
Terminal number	Termina	l symbol	
1	Input 3+	No connection	
2	Input 3-	Input 3+	
3	Input 4+	Input 3-	
4	Input 4-	Input 4+	
5	Input 1-	Input 4-	
6	Input 1+	No connection	
7	Input 2-	Input 1-	
8	Input 2+	Input 1+	
9	-V _{CC}	Input 2-	
10	Output	Input 2+	
11	+V _{CC}	No connection	
12	COMP	-V _{CC}	
13	Ground	Output	
14	ENABLE	+V _{CC}	
15	D_1	COMP	
16	D_0	No connection	
17		Ground	
18		ENABLE	
19		D_1	
20		D_0	

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

STANDARD MICROCIRCUIT DRAWING	SIZE A		5962-87783
DEFENSE SUPPLY CENTER COLUMBUS COLUMBUS, OHIO 43216-5000		REVISION LEVEL B	SHEET 8

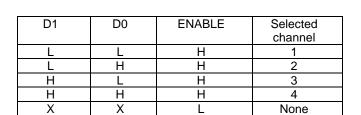


FIGURE 2. Truth table.

STANDARD
MICROCIRCUIT DRAWING

DEFENSE SUPPLY CENTER COLUMBUS COLUMBUS, OHIO 43216-5000

SIZE A		5962-87783
	REVISION LEVEL B	SHEET 9

4. QUALITY ASSURANCE PROVISIONS

- 4.1 <u>Sampling and inspection</u>. 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 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) $T_A = +125^{\circ}C$, 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.

4.3.1 Group A inspection.

- a. Tests shall be as specified in table II herein.
- b. Subgroups 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. 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.

STANDARD MICROCIRCUIT DRAWING	SIZE A		5962-87783
DEFENSE SUPPLY CENTER COLUMBUS COLUMBUS, OHIO 43216-5000		REVISION LEVEL B	SHEET 10

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, 4, 5, 6, 7
Group A test requirements (method 5005)	1, 2, 3, 4, 5, 6, 7, 8**, 9
Groups C and D end-point electrical parameters (method 5005)	1

^{*} PDA applies to subgroup 1.

5. PACKAGING

5.1 Packaging requirements. The requirements for packaging shall be in accordance with MIL-PRF-38535, appendix A.

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 using DD Form 1692, Engineering Change Proposal.
- 6.4 <u>Record of users</u>. Military and industrial users shall inform Defense Supply Center Columbus when a system application requires configuration control and the applicable SMD. DSCC 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 DSCC-VA, telephone (614) 692-0544.
- 6.5 <u>Comments</u>. Comments on this drawing should be directed to DSCC-VA, Columbus, Ohio 43216-5000, or telephone (614) 692-0547.
- 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 DSCC-VA.

STANDARD
MICROCIRCUIT DRAWING
DEFENCE CHODLY CENTED COLUMN

DEFENSE SUPPLY CENTER COLUMBUS COLUMBUS, OHIO 43216-5000

SIZE A		5962-87783
	REVISION LEVEL B	SHEET 11

^{**} Subgroup 8 is guaranteed if not tested.

STANDARD MICROCIRCUIT DRAWING BULLETIN

DATE: 04-01-27

Approved sources of supply for SMD 5962-87783 are listed below for immediate acquisition information only and shall be added to MIL-HDBK-103 and QML-38535 during the next revision. MIL-HDBK-103 and QML-38535 will be revised to include the addition or deletion of sources. The vendors listed below have agreed to this drawing and a certificate of compliance has been submitted to and accepted by DSCC-VA. This bulletin is superseded by the next dated revision of MIL-HDBK-103 and QML-38535.

Standard	Vendor	Vendor
microcircuit drawing	CAGE	similar
PIN <u>1</u> /	number	PIN <u>2</u> /
5962-8778301EA	34371	HA1-2400/883
5962-87783012A	34371 <u>3</u> /	HA4-2400/883

- 1/ The lead finish shown for each PIN representing a hermetic package is the most readily available from the manufacturer listed for that part. If the desired lead finish is not listed contact the vendor to determine its availability.
- 2/ Caution. Do not use this number for item acquisition. Items acquired to this number may not satisfy the performance requirements of this drawing.
- 3/ Part has an end of life date of 10/3/04.

Vendor CAGE <u>number</u>

34371

Vendor name and address

Intersil Corporation 2401 Palm Bay Blvd

P.O. Box 883

Melbourne, FL 32902-0883

The information contained herein is disseminated for convenience only and the Government assumes no liability whatsoever for any inaccuracies in the information bulletin.