<u>查询"5962-9472501M2A"</u>	•	DESCRI	PTION		REVISIO				DA	TE (YF	R-MO-D	(A)		APPR	OVED	
												. ',				
A Changes in accordance										95-06-		M. A. Frye				
B Make change to third ha Update boilerplate. Rec	Make change to third harmonic distortion test in table I. Jodate boilerplate. Redrawnrrp					98-01	-16 		R. MONNIN							
DEV.		 		T				r	ı		1	1	1		ī	T
SHEET																
SHEET REV																
SHEET REV SHEET	DEV				B											
SHEET REV SHEET REV STATUS	REV		B 1	B 2	B 3	B 4	B 5	B 6	B 7	В	В	B 10	B 111	B 12	B 13	
OF SHEETS S PMIC N/A P	REV SHEET REPAREI		B 1	B 2	B 3	B 4	5	6	7	8	9	10	11	12	13	
SHEET REV SHEET REV STATUS OF SHEETS SMIC N/A P STANDARD MICROCIRCUIT	REPAREI	ICER	1				5	6	7 SE S	8 UPPL	9 .Y CE	1	11 COL	12 UMB	13	
SHEET REV SHEET REV STATUS OF SHEETS SMIC N/A P STANDARD MICROCIRCUIT DRAWING	REPAREI RICK OFF HECKED RAJES	BY BH PITHA	1 ADIA			MIC FEI	DI CROCEDBA	EFEN CIRCA	JESE SICOL	UPPLUMBU	9 LY CE US, C	10	11 R COL 43216	LUMB D, CI	us JRRI	
SHEET REV SHEET REV STATUS OF SHEETS SPMIC N/A STANDARD MICROCIRCUIT DRAWING THIS DRAWING IS AVAILABLE FOR USE BY ALL DEPARTMENTS AND ACENCIEC OF THE	REPAREI RICK OFF HECKED RAJES	O BY SH PITHA ED BY SEL FRYI	1 ADIA	2		MIC FEI	DI CROCEDBA	EFEN CIRCA	7 ISE SI COL	UPPLUMBU	9 LY CE US, C	NTEF OHIO	11 R COL 43216	LUMB D, CI	us JRRI	

DSCC FORM 2233

APR 97

 $\underline{\text{DISTRIBUTION STATEMENT A}}. \ \ \text{Approved for public release; distribution is unlimited}.$

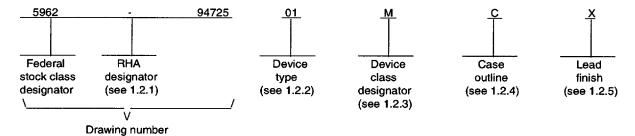
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SHEET

1 OF 13

- 1.1 Scope. This drawing documents two product assurance class levels consisting of high reliability (device classes Q and M) and space application (device class V). 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 (RHA) levels are reflected in the PIN.
 - 1.2 PIN. The PIN is as shown in the following example:



- 1.2.1 RHA designator. Device classes Q and V RHA marked devices meet the MIL-PRF-38535 specified RHA levels and are marked with the appropriate RHA designator. Device class M RHA marked devices meet the MIL-PRF-38535, appendix A specified RHA levels and are marked with the appropriate RHA designator. A dash (-) indicates a non-RHA device.
 - 1.2.2 Device type(s). The device type(s) identify the circuit function as follows:

Device type	Generic number	<u>Circuit function</u>
01	CLC431	Wideband, current feedback, dual, operational amplifier with disable
02	CLC432	Wideband, current feedback, dual, operational amplifier

1.2.3 Device class designator. The device class designator is a single letter identifying the product assurance level as follows:

Device class Device requirements documentation

> Vendor self-certification to the requirements for MIL-STD-883 compliant, non-JAN class level B microcircuits in accordance with MIL-PRF-38535,

appendix A

Q or V Certification and qualification to MIL-PRF-38535

1.2.4 Case outline(s). The case outline(s) are as designated in MIL-STD-1835 and as follows:

Outline letter	Descriptive designator	Terminals	Package style
С	GDIP1-T14 or CDIP2-T14	14	Dual-in-line
P	GDIP1-T8 or CDIP2-T8	8	Dual-in-line
2	CQCC1-N20	20	Square leadless chip carrier

1.2.5 Lead finish. The lead finish is as specified in MIL-PRF-38535 for device classes Q and V or MIL-PRF-38535, appendix A for device class M.

STANDARD MICROCIRCUIT DRAWING	SIZE A		5962-94725
DEFENSE SUPPLY CENTER COLUMBUS COLUMBUS, OHIO 43216-5000		REVISION LEVEL B	SHEET 2

APR 97

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Supply voltage (Vs)	±16.5 V dc
Output current (Iout)	100 mA
Common mode input voltage (V _{CM})	±Vs
Differential input voltage (VID)	
Power dissipation (P _D)	1.15 W
Lead temperature (soldering, 10 seconds)	
Junction temperature (T _J)	
Storage temperature range	
Thermal resistance, junction-to-case (θ _{JC}):	
Cases C and P	See MIL-STD-1835
Case 2	
Thermal resistance, junction-to-ambient (θ_{JA}):	
Case C	80°C/W
Case P	115°C/W
Case 2	40°C/W
Pagamental aparating conditions	
Recommended operating conditions.	

1.4

Supply voltage (Vs)	±15 V dc
Gain range (Av)	
Ambient operating temperature range (T _A)	-55°C to +125°C

2. APPLICABLE DOCUMENTS

2.1 Government specification, standards, and handbooks. 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-973 - Configuration Management.

MIL-STD-1835 - Interface Standard For Microcircuit Case Outlines.

STANDARD MICROCIRCUIT DRAWING	SIZE A		5962-94725
DEFENSE SUPPLY CENTER COLUMBUS COLUMBUS, OHIO 43216-5000		REVISION LEVEL B	SHEET 3

DSCC FORM 2234

APR 97

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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.

DEPARTMENT OF DEFENSE

MIL-HDBK-103 - List of Standard Microcircuit Drawings (SMD's).

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 Item requirements. The individual item requirements for device classes Q and V shall be in accordance with MIL-PRF-38535 and as specified herein or as modified in the device manufacturer's Quality Management (QM) plan. The modification in the QM plan shall not affect the form, fit, or function as described herein. The individual item requirements for device class M shall be in accordance with MIL-PRF-38535, appendix A for non-JAN class level B devices and as specified herein.
- 3.2 <u>Design, construction, and physical dimensions</u>. The design, construction, and physical dimensions shall be as specified in MIL-PRF-38535 and herein for device classes Q and V or MIL-PRF-38535, appendix A and herein for device class M.
 - 3.2.1 Case outline(s). The case outline(s) shall be in accordance with 1.2.4 herein.
 - 3.2.2 Terminal connections. The terminal connections shall be as specified on figure 1.
- 3.3 <u>Electrical performance characteristics and postirradiation parameter limits</u>. Unless otherwise specified herein, the electrical performance characteristics and postirradiation parameter limits 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 defined in table I.
- 3.5 <u>Marking</u>. 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. 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. For RHA product using this option, the RHA designator shall still be marked. Marking for device classes Q and V shall be in accordance with MIL-PRF-38535. Marking for device class M shall be in accordance with MIL-PRF-38535, appendix A.
- 3.5.1 <u>Certification/compliance mark</u>. The certification mark for device classes Q and V shall be a "QML" or "Q" as required in MIL-PRF-38535. The compliance mark for device class M shall be a "C" as required in MIL-PRF-38535, appendix A.
- 3.6 <u>Certificate of compliance</u>. For device classes Q and V, a certificate of compliance shall be required from a QML-38535 listed manufacturer in order to supply to the requirements of this drawing (see 6.6.1 herein). For device class M, 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 6.6.2 herein). The certificate of compliance submitted to DSCC-VA prior to listing as an approved source of supply for this drawing shall affirm that the manufacturer's product meets, for device classes Q and V, the requirements of MIL-PRF-38535 and herein or for device class M, the requirements of MIL-PRF-38535, appendix A and herein.
- 3.7 <u>Certificate of conformance</u>. A certificate of conformance as required for device classes Q and V in MIL-PRF-38535 or for device class M in MIL-PRF-38535, appendix A shall be provided with each lot of microcircuits delivered to this drawing.
- 3.8 <u>Notification of change for device class M</u>. For device class M, notification to DSCC-VA of change of product (see 6.2 herein) involving devices acquired to this drawing is required for any change as defined in MIL-STD-973.

STANDARD MICROCIRCUIT DRAWING	SIZE A		5962-94725
DEFENSE SUPPLY CENTER COLUMBUS		REVISION LEVEL	SHEET
COLUMBUS, OHIO 43216-5000		B	4

DSCC FORM 2234

APR 97

9004708 0033401 548

查询"5962-9472501M2A"供应商 TABLE I. Electrical performance characteristics. Conditions 1/ -55°C ≤ T_A ≤+125°C Group A Device Limits 2/ Unit Test Symbol unless otherwise specified subgroups type Min Max Static and dc tests. Input bias current, 1, 2 lΒN ΑII -8 8 μΑ noninverting 3 -18 18 Input bias current, inverting 1, 2 ΑII -6 6 mV 3 -9 9 Input offset voltage Vio 1,3 All -6 6 m۷ 2 -9 9 Average input bias current DIBN $T_A = +125^{\circ}C, -55^{\circ}C$ 3/ 2, 3 All -150 150 nA/°C drift, noninverting Average input bias current DiBi $T_A = +125$ °C, -55°C 3/ 2, 3 ΑII -40 40 nA/°C drift, inverting Average input offset voltage Dvю $T_A = +125^{\circ}C, -55^{\circ}C$ 3/ 2, 3 Αli -50 50 μV/°C Supply current lcc No load 1.2 All 15.8 mA 3 19.6 lcc_D Disabled 1, 2 01 2.4 3 3.0 Power supply rejection ratio **PSRR** $+V_S = +4.0 \text{ V to } +5.0 \text{ V},$ 4, 6 All 59 dB $-V_S = -4.0 \text{ V to } -5.0 \text{ V}$ 5 57 Common mode rejection CMRR $V_{CM} = \pm 1 \text{ V} \quad \underline{3}$ 4 All 58 dB ratio 5, 6 56 See footnotes at end of table.

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

SIZE A		5962-94725
	REVISION LEVEL B	SHEET 5

DSCC FORM 2234

APR 97

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Test	Symbol	Conditions <u>1</u> / -55°C ≤ T _A ≤+125°C unless otherwise specific	Group A subgroups	Device type	Limits 2/		Unit
					Min	Max	
Frequency domain tests.							
Small signal bandwidth	SSBW	-3 dB bandwidth, Vouт < 4.0 Vpp	4, 6	All	42		MHz
			5]	34		.
Large signal bandwidth	LSBW	-3 dB bandwidth, 3/ Vout < 10 V _{PP}	4, 6	All	21		MHz
			5		17		
Gain flatness peaking high	GFPH	0.1 MHz to 100 MHz, Vout ≤ 4.0 V _{PP}	4	All		0.5	dB
			5, 6			0.9	
Gain flatness rolloff	GFR	0.1 MHz to 20 MHz, Vout ≤ 4.0 V _{PP}	4, 5, 6	All		8.0	dB
Differential gain	DG	4.43 MHz <u>3</u> /	4, 6	All	0.18		%
Differential above	 	4.40.181-0/	5	A.11	0.22		
Differential phase	DP	4.43 MHz <u>3</u> /	4, 6	All	0.18		Degree
Linear phase deviation	LPD	DC to 20 MHz, 3/	4, 6	Ali	1.8	 	Degree
Linear priase deviation		Vouτ ≤ 4.0 V _{PP}	5	- 5"	2.3		Degle
	1		3	1	2.3	1	
Distortion and noise tests.							
Second harmonic distortion	HD2	2 V _{PP} at 10 MHz	4, 6	All		38	dBc
			5			33	
Third harmonic distortion	HD3	2 V _{PP} at 10 MHz	4, 6	01		50 48	dBc
			4, 5, 6	02		48	•
				All		4.2	nV√Hz
Input noise voltage	VN	>1 MHz <u>3</u> /	4, 6				
Input noise voltage	VN	>1 MHz <u>3</u> /	4, 6			4.7	
Input noise voltage Inverting input noise current	VN -ICN	>1 MHz <u>3</u> / >1 MHz <u>3</u> /	5 4, 5	All		16	pA√Hz
-		_	5	All			pA√Hz
Inverting input noise current		_	5 4, 5	All		16	pA√Hz
Inverting input noise current See footnotes at end of table.	IDARD	>1 MHz <u>3</u> /	5 4, 5	All		16	pA√Hz

DSCC FORM 2234

APR 97

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Test	Symbol	Conditions $1/$ -55°C \leq T _A \leq +125°C unless otherwise specified	Group A subgroups	Device type	Limits 2/		Unit
	<u> </u>				Min	Мах	<u> </u>
istortion and noise tests - Co	ontinued.						
Noninverting input noise current	+ICN	>1 MHz <u>3</u> /	4	All		2.5	pA√Hz
			5, 6			2.8	
Timing tests.							
Slew rate	SR	Vout = ±10 V step <u>3</u> /	4	Ali	1500		V/µs
			5, 6	-	1400	,	-
Rise and fall time	t _{R,F}	10 V step 3/	9, 11	All		12	ns
			10	_		14	-
Settling time	ts	2 V step at 0.05% of the fixed value 3/	9, 11	All		100	ns
			10			120	Ī
Overshoot	os	2 V step, <u>3</u> / 1 ns rise/fall	9, 11	All		10	%
			10			14	
Performance tests.							
Positive input resistance	R _{+IN}	3/	4, 5	All	16		ΜΩ
	···		6		5		
Positive input capacitance	C+IN	3/	4, 5, 6	All	1		pF
Output voltage range	Vout	No load 3/	1, 2	All	-13.6	+13.6	V
	Voutl	R _L = 100 Ω <u>3</u> /	3		-13.2	+13.2	_
	VOUTL	HE = 100 75 3/	1, 2	_	-3.7 -2.7	+3.7	_
Common mode input voltage range	C _{MIR}	<u>3</u> /	1, 2	All	12	1	V
			3		11.5		-
See footnotes at end of table).						
	NDARD		SIZE		·····		
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MICROCIRCUIT DRAWING DEFENSE SUPPLY CENTER COLUMBUS COLUMBUS, OHIO 43216-5000		COLUMBUS	RI	EVISION LEV	'EL	SHEE	T 7

DSCC FORM 2234 APR 97

Test	Symbol	Conditions 1/ -55°C ≤ T _A ≤+125°C unless otherwise specified	Group A subgroups	Device type	Limits 2/		Unit
					Min	Max	
Performance tests - Continued	l .						
Output current	Юит	<u>3</u> /	1, 2	All	38		mA
			3	-	28		†
Switching tests.			-				
Switching turn on time ton	ton	V _{IN} = 4 V _{PP} at 10 MHz <u>3</u> /	9, 10	01		150	μs
			11			170	1
Switching turn off time	to rr	VIN = 4 VPP at 10 MHz 3/	9, 11	01		1000	μs
			10			1400	1
Disable logic high input voltage	ViH	Single ended mode 3/	1, 2, 3	01		2	V
Disable logic low input voltage	V _{IL}	Single ended mode 3/	1, 2, 3	01	0.8		V
Disable logic maximum input current	I _{DIN}	DIS = V _{IL} to V _{IH} 3/	1, 2	01		180	μА
į			3			210	1
Minimum differential voltage	VMIN	DIS = VIL to VIH 3/	1, 2	01		0.4	٧
			3			0.5	1
Isolation tests.						•	•
Crosstalk, input referred isolation	XTLK	10 MHz <u>3</u> /	4, 5, 6	All	64		dB
Off isolation	ISO	10 MHz <u>3</u> /	4, 5, 6	All	53	<u> </u>	dB

STANDARD MICROCIRCUIT DRAWING	SIZE A		5962-94725
DEFENSE SUPPLY CENTER COLUMBUS COLUMBUS, OHIO 43216-5000		REVISION LEVEL B	SHEET 8

DSCC FORM 2234

APR 97

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^{1/} Unless otherwise specified, $V_S = \pm 15 \text{ V}$ dc, $A_V = +2$, and load resistance (R_L) = 100 Ω . Gain resistance (R_G) and feedback resistance (R_F) equals 866 Ω for device type 01 and 750 Ω for device type 02.

^{2/} The algebraic convention, whereby the most negative value is a minimum and the most positive is a maximum, is used in this table. Negative current shall be defined as conventional current flow out of a device terminal.

^{3/} If not tested, shall be guaranteed to the limits specified in table I herein.

Device types	01		02	
Case outlines	С	2	Р	2
Terminal number		Term	inal symbol	
1	-INPUT 1	NC	OUTPUT 1	NC
2	+INPUT 1	-INPUT 1	-INPUT 1	OUTPUT 1
3	DISABLE 1	NC	+INPUT 1	NC
4	-Vcc	+INPUT 1	-Vcc	NC
5	DISABLE 2	DISABLE 1	+INPUT 2	-INPUT 1
6	+INPUT 2	-Vcc	-INPUT 2	NC
7	-INPUT 2	DISABLE 2	OUTPUT 2	+INPUT 1
8	OUTPUT 2	+INPUT 2	+Vcc	NC
9	VATTL2	NC		NC
10	DISABLE 2	-INPUT 2		-Vcc
11	+Vcc	NC		NC
12	DISABLE 1	OUTPUT 2		+INPUT 2
13	VRTTL 1	V _{RTTL2}		NC
14	OUTPUT 1	DISABLE 2	••••	NC
15		NC	****	-INPUT 2
16		+Vcc		NC
17		NC		OUTPUT 2
18		DISABLE 1		NC
19		V _{RTTL2}		NC
20		OUTPUT 1		+Vcc

NC = No connection.

FIGURE 1. Terminal connections.

STANDARD MICROCIRCUIT DRAWING	SIZE A		5962-94725
DEFENSE SUPPLY CENTER COLUMBUS COLUMBUS, OHIO 43216-5000		REVISION LEVEL B	SHEET 9

DSCC FORM 2234 APR 97

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- 3.9 Verification and review for device class M. For device class M, 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.
- 3.10 Microcircuit group assignment for device class M. Device class M devices covered by this drawing shall be in microcircuit group number 49 (see MIL-PRF-38535, appendix A).

4. QUALITY ASSURANCE PROVISIONS

- 4.1 Sampling and inspection. For device classes Q and V, sampling and inspection procedures shall be in accordance with MIL-PRF-38535 or as modified in the device manufacturer's Quality Management (QM) plan. The modification in the QM plan shall not affect the form, fit, or function as described herein. For device class M, sampling and inspection procedures shall be in accordance with MIL-PRF-38535, appendix A.
- 4.2 Screening. For device classes Q and V, screening shall be in accordance with MIL-PRF-38535, and shall be conducted on all devices prior to qualification and technology conformance inspection. For device class M, screening shall be in accordance with method 5004 of MIL-STD-883, and shall be conducted on all devices prior to quality conformance inspection.

4.2.1 Additional criteria for device class M.

- Burn-in test, method 1015 of MIL-STD-883.
 - (1) Test condition B. 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.
 - (2) $T_A = +125^{\circ}C$, minimum.
- b. Interim and final electrical test parameters shall be as specified in table II herein.

4.2.2 <u>Additional criteria for device classes Q and V.</u>

- a. The burn-in test duration, test condition and test temperature, or approved alternatives shall be as specified in the device manufacturer's QM plan in accordance with MIL-PRF-38535. The burn-in test circuit shall be maintained under document revision level control of the device manufacturer's Technology Review Board (TRB) in accordance with MIL-PRF-38535 and shall be made available to the acquiring or preparing 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.
- b. Interim and final electrical test parameters shall be as specified in table II herein.
- Additional screening for device class V beyond the requirements of device class Q shall be as specified in MIL-PRF-38535, appendix B.
- 4.3 Qualification inspection for device classes Q and V. Qualification inspection for device classes Q and V shall be in accordance with MIL-PRF-38535. Inspections to be performed shall be those specified in MIL-PRF-38535 and herein for groups A, B, C, D, and E inspections (see 4.4.1 through 4.4.4).

STANDARD MICROCIRCUIT DRAWING	SIZE A		5962-94725
DEFENSE SUPPLY CENTER COLUMBUS COLUMBUS, OHIO 43216-5000		REVISION LEVEL B	SHEET 10

DSCC FORM 2234

APR 97

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TABLE II. Electrical test requirements.

Test requirements	Subgroups (in accordance with MIL-STD-883, method 5005, table I)	(in accord	roups ance with 535, table III)
	Device class M	Device class Q	Device class V
Interim electrical parameters (see 4.2)	1	1	1
Final electrical parameters (see 4.2)	1, 2, 3, 4, 9 1/	1,2,3,4,9 <u>1</u> /	1,2,3,4,9 <u>1</u> /
Group A test requirements (see 4.4)	1,2,3,4,5,6, <u>2</u> / 9,10,11	1,2,3,4,5, <u>2</u> / 6,9,10,11	1,2,3,4, <u>2</u> / 5,6,9,10,11
Group C end-point electrical parameters (see 4.4)	1	1	1
Group D end-point electrical parameters (see 4.4)	1	1	1
Group E end-point electrical parameters (see 4.4)			

- 1/ PDA applies to subgroup 1.
- 2/ Subgroups 9, 10, and 11, if not tested, shall be guaranteed to the limits specified in table I.
- 4.4 Conformance inspection. Technology conformance inspection for classes Q and V shall be in accordance with MIL-PRF-38535 including groups A, B, C, D, and E inspections and as specified herein except where option 2 of MIL-PRF-38535 permits alternate in-line control testing. Quality conformance inspection for device class M shall be in accordance with MIL-PRF-38535, appendix A and as specified herein. Inspections to be performed for device class M shall be those specified in method 5005 of MIL-STD-883 and herein for groups A, B, C, D, and E inspections (see 4.4.1 through 4.4.4).
 - 4.4.1 Group A inspection.
 - a. Tests shall be as specified in table II herein.
 - b. Subgroups 7 and 8 in table I, method 5005 of MIL-STD-883 shall be omitted.
 - 4.4.2 Group C inspection. The group C inspection end-point electrical parameters shall be as specified in table II herein.
 - 4.4.2.1 Additional criteria for device class M. Steady-state life test conditions, method 1005 of MIL-STD-883:
 - a. Test condition B. 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.
 - b. $T_A = +125^{\circ} C$, minimum.
 - c. Test duration: 1,000 hours, except as permitted by method 1005 of MIL-STD-883.

STANDARD MICROCIRCUIT DRAWING	SIZE A		5962-94725
DEFENSE SUPPLY CENTER COLUMBUS COLUMBUS, OHIO 43216-5000		REVISION LEVEL B	SHEET 11

DSCC FORM 2234

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查有"5962-9472501M2A"供文商 additional criteria for device classes Q and V. The steady-state life test duration, test condition and test temperature, or approved alternatives shall be as specified in the device manufacturer's QM plan in accordance with MIL-PRF-38535. The test circuit shall be maintained under document revision level control by the device manufacturer's TRB in accordance with MIL-PRF-38535 and shall be made available to the acquiring or preparing 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.

- 4.4.3 Group D inspection. The group D inspection end-point electrical parameters shall be as specified in table II herein.
- 4.4.4 <u>Group E inspection</u>. Group E inspection is required only for parts intended to be marked as radiation hardness assured (see 3.5 herein).
 - a. End-point electrical parameters shall be as specified in table II herein.
 - b. For device classes Q and V, the devices or test vehicle shall be subjected to radiation hardness assured tests as specified in MIL-PRF-38535 for the RHA level being tested. For device class M, the devices shall be subjected to radiation hardness assured tests as specified in MIL-PRF-38535, appendix A for the RHA level being tested. All device classes must meet the postirradiation end-point electrical parameter limits as defined in table I at T_A = +25°C ±5°C, after exposure, to the subgroups specified in table II herein.
 - c. When specified in the purchase order or contract, a copy of the RHA delta limits shall be supplied.
 - 5. PACKAGING
- 5.1 <u>Packaging requirements</u>. The requirements for packaging shall be in accordance with MIL-PRF-38535 for device classes Q and V or MIL-PRF-38535, appendix A for device class M.
 - 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.
- 6.1.1 <u>Replaceability</u>. Microcircuits covered by this drawing will replace the same generic device covered by a contractor prepared specification or drawing.
 - 6.1.2 Substitutability. Device class Q devices will replace device class M devices.
- 6.2 <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 DD Form 1692, Engineering Change Proposal.
- 6.3 Record of users. Military and industrial users should inform Defense Supply Center Columbus when a system application requires configuration control and which SMD's are applicable to that system. 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 microelectronic devices (FSC 5962) should contact DSCC-VA, telephone (614) 692-0525.
- 6.4 <u>Comments</u>. Comments on this drawing should be directed to DSCC-VA, Columbus, Ohio 43216-5000, or telephone (614) 692-0674.
- 6.5 <u>Abbreviations, symbols, and definitions</u>. The abbreviations, symbols, and definitions used herein are defined in MIL-PRF-38535 and MIL-HDBK-1331.

STANDARD MICROCIRCUIT DRAWING	SIZE A		5962-94725
DEFENSE SUPPLY CENTER COLUMBUS COLUMBUS, OHIO 43216-5000		REVISION LEVEL B	SHEET 12

DSCC FORM 2234

APR 97

9004708 0033409 839

查询 <u>"5962-9472501</u> M2A"供应商				
6.6.1 Sources of supply for device classes Q and V. Sources of supply for device classes Q and V are listed in QML-38535. The vendors listed in QML-38535 have submitted a certificate of compliance (see 3.6 herein) to DSCC-VA and have agreed to this drawing.				
6.6.2 <u>Approved sources of supply for device class M</u> . Approved sources of supply for class M 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	SIZE A	10-70-70-70	5962-94725	
MICROCIRCUIT DRAWING DEFENSE SUPPLY CENTER COLUMBUS COLUMBUS, OHIO 43216-5000		REVISION LEVEL B	SHEET 13	
DSCC FORM 2234 APR 97	-			

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STANDARD MICROCIRCUIT DRAWING BULLETIN

DATE: 98-01-16

Approved sources of supply for SMD 5962-94725 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 microcircuit drawing PIN <u>1</u> /	Vendor CAGE number	Vendor similar PIN <u>2</u> /
5962-9472501MCA	27014	CLC431AJ-QML
5962-9472501M2A	27014	CLC431AE-QML
5962-9472502MPA	27014	CLC432AJ-QML
5962-9472502M2A	<u>3</u> /	CLC432A8L-2A

- 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/ Not available from an approved source of supply.

Vendor CAGE number Vendor name and address

27014

National Semiconductor 2900 Semiconductor Drive P.O. Box 58090

Santa Clara, CA 95052-8090 Point of contact: Comlinear,

A National Semiconductor Company

4800 Wheaton Drive

Fort Collins, CO 80525-9483

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

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