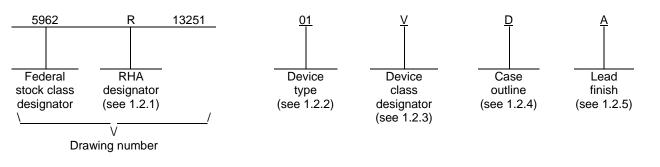
										ONS										
LTR		DESCRIPTION								DA	ATE (YI	R-MO-I	DA)	APPROVED						
А	Dele	Delete all match referenced tests as specified under Table I ro								16-0)4-04			C. SA	AFFLE					
DEV	-	1				1	1									1				
REV																				
SHEET																				
SHEET REV																				
SHEET REV SHEET				REV																
SHEET REV SHEET REV STATUS				REV			A 1	A	A	A	A 5	A 6	A 7		A	A 10	A 11		A 13	 A 14
SHEET REV SHEET REV STATUS OF SHEETS PMIC N/A	NDAF			SHE PRE RIC CHE	EET PAREI K OFF CKED	FICER BY	1	A 2	A 3	A 4	A 5	6 CC	7 DLA I DLUM	8 LAND	9 AND , OHI(A 10 D MAR D 432 mariti	11 RITIMI 218-39	12 E 990	13	A 14
SHEET REV SHEET REV STATUS OF SHEETS PMIC N/A STA MICRO DR/ THIS DRAWIN FOR U	NDAF DCIR(AWIN NG IS A JSE BY RTMEN NCIES (CUIT G VAILAI ALL VTS OF THE	1	SHE PRE RIC CHE RA. APPI CH, DRA	EET PAREI CK OFF CKED JESH F ROVEI ARLES WING	FICER BY PITHAE D BY S F. SA APPR(16-(1 DIA FFLE DVAL D D2-02	2		4 MIC	5 ROC	6 CC http: CIRCU FION	7 DLA I DLUM //www	8 IAND IBUS, w.land	9 AND O AND O AND O AND	10 0 MAR 0 432 mariti	11 218-39 ime.d	12 E 990 la.mil	13	
SHEET REV SHEET REV STATUS OF SHEETS PMIC N/A STA MICRO DR/ THIS DRAWIN FOR U DEPA AND AGEN DEPARTMEN	NDAF DCIR(AWIN NG IS A JSE BY RTMEN NCIES (CUIT G VAILAI ALL ITS OF THE DEFEN	1	SHE PRE RIC CHE RA. APPI CH, DRA	EET PAREI CK OFF CKED JESH F ROVEI ARLES WING	FICER BY PITHAL D BY S F. SA APPR(16-(LEVEL	1 DIA FFLE DVAL D D2-02	2		4 MIC OP SIL	5 CROC	6 CC http: CIRCU FION	7 DLA I DLUM //www	8 IBUS, w.land _INE/ MPLI	9 AND O AND O AND O AND	10 0 MAR 0 432 mariti 0 MH	11 218-39 ime.d	12 E 990 la.mil	13	

DSCC FORM 2233 APR 97

1. SCOPE

1.1 <u>Scope</u>. This drawing documents two product assurance class levels consisting of high reliability (device class Q) 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 is reflected in the PIN.

1.2 <u>PIN</u>. The PIN is as shown in the following example:



1.2.1 <u>RHA designator</u>. Device classes Q and V RHA marked devices meet the MIL-PRF-38535 specified RHA levels and are 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) identify the circuit function as follows:

Device type	<u>Generic number</u>	Circuit function
01	RH1499	10 MHz quad, operational amplifier

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

Device class		Device requiremen	ts documentation				
Q or V	Certification and qualification to MIL-PRF-38535						
1.2.4 Case outline(s).	The case outline(s) are as designate	ated in MIL-STD-1835	and as follows:				
Outline letter	Descriptive designator	<u>Terminals</u>	Package style				
D	GDFP1-F14	14	Glass sealed flat pack				
125 Load finish The	lead finish is as specified in MIL-P	PE-38535 for device o	Vaceos O and V				

1.2.5 Lead finish. The lead finish is as specified in MIL-PRF-38535 for device classes Q and V.

STANDARD MICROCIRCUIT DRAWING	SIZE A		5962-13251
DLA LAND AND MARITIME COLUMBUS, OHIO 43218-3990		REVISION LEVEL A	SHEET 2
DSCC FORM 2234			

1.3 Absolute maximum ratings. 1/

Total supply voltage (+V _S to $-V_S$) 3 Input current (I _{IN}) ± Output short circuit duration C Junction temperature (T _J) + Lead temperature (soldering, 10 seconds) + Storage temperature range - Thermal resistance, junction-to-case (θ_{JC}) + Thermal resistance, junction-to-ambient (θ_{JA}) +	-10 mA Continuous <u>2</u> / +150°C +300°C 65°C to +150°C +40°C/W
 1.4 <u>Recommended operating conditions</u>. Supply voltage (V_S)	
 1.5 <u>Radiation features</u>. For device type 01: Maximum total dose available (dose rate = 50 - 300 rads(Si)/s)= Maximum total dose available (dose rate = 10 mrads(Si)/s)= 	—

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 cited in the solicitation or contract.

DEPARTMENT OF DEFENSE SPECIFICATION

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

DEPARTMENT OF DEFENSE STANDARDS

MIL-STD-883 - Test Method Standard Microcircuits. MIL-STD-1835 - Interface Standard Electronic Component Case Outlines.

DEPARTMENT OF DEFENSE HANDBOOKS

MIL-HDBK-103 - List of Standard Microcircuit Drawings. MIL-HDBK-780 - Standard Microcircuit Drawings.

(Copies of these documents are available online at <u>http://quicksearch.dla.mil</u> or from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094.)

- 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.
- 2/ A heat sink may be required to keep the junction temperature below this absolute maximum rating when the output is shorted indefinitely.
- 3/ Device type 01 has been tested at high dose and low dose irradiation test rates and end point limits for the noted parameters are guaranteed only for the conditions as specified in MIL-STD-883, method 1019, condition A to a maximum total dose of 100 krads(Si), and condition D to a maximum total dose of 50 krads (Si). However, device type 01 may be dose rate sensitive in a space environment and may demonstrate enhanced low dose rate effects to 100 krads (Si).

STANDARD MICROCIRCUIT DRAWING	SIZE A		5962-13251
DLA LAND AND MARITIME COLUMBUS, OHIO 43218-3990		REVISION LEVEL A	SHEET 3
DSCC FORM 2234			

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 for device classes Q and V shall be in accordance with MIL-PRF-38535 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.

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.

3.2.1 <u>Case outline</u>. The case outline shall be in accordance with 1.2.4 herein.

3.2.2 <u>Terminal connections</u>. The terminal connections shall be as specified on figure 1.

3.2.3 <u>Radiation exposure circuit</u>. The radiation exposure circuit shall be maintained by the manufacturer under document revision level control and shall be made available to the preparing and acquiring activity upon request.

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 IIA. 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. 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.

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.

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). The certificate of compliance submitted to DLA Land and Maritime-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.

3.7 <u>Certificate of conformance</u>. A certificate of conformance as required for device classes Q and V in MIL-PRF-38535 shall be provided with each lot of microcircuits delivered to this drawing.

STANDARD MICROCIRCUIT DRAWING	SIZE A		5962-13251
DLA LAND AND MARITIME COLUMBUS, OHIO 43218-3990		REVISION LEVEL A	SHEET 4
DSCC FORM 2234			

Test	Symbol	Conditions $V_S = \pm 15 V, V_{CM} =$		Group A subgroups	Device type	Limits		Unit
		-55°C \leq T _A \leq + unless otherwise				Min	Max	
Input offset voltage	Vos	$V_{CM} = + V_S, -V_S$		1	01		800	μV
		V _{CM} = 14.5 V, -14.5 V		2, 3			1100	
		D, L, R		1			950	
Input bias current	IB	$V_{CM} = +V_S$		1	01	0	715	nA
		V _{CM} = 14.5 V		2, 3			1200	
		V _{CM} = -V _S		1		-715	0	
		V _{CM} = -14.5 V		2, 3		-1200	0	
		$V_{CM} = + V_S, -V_S$	D	1			765	-
			L	1	-		865	
			R	1			915	
Input offset current	IOS	$V_{CM} = +V_S, -V_S$	1	01		70	nA	
		V _{CM} = 14.5 V, -14.5 V		2, 3			300	_
		$V_{CM} = +V_S, -V_S$	D, L, R	1			100	
Input voltage range	VIN			1	01	-15	+15	V
				2, 3		-14.5	+14.5	
			D, L, R	1				
Large signal voltage gain	A _{VOL}	$V_{O} = -14.5 V \text{ to } +14.5$	5 V,	4	01	1000		V/m\
		R _L = 10 kΩ		5, 6		60		-
			D, L, R	4		500		
		$V_{O} = -10 \text{ V to } +10 \text{ V}$	3	4		500		
		$R_L = 2 k\Omega$		5, 6		25		
			D, L, R	4		250		
Common mode rejection ratio	CMRR	$V_{CM} = +V_S \text{ to } -V_S$		1	01	90		dB
		V _{CM} = 14.5 V to -14.5 V		2, 3		86		
		$V_{CM} = +V_S \text{ to } -V_S$	D, L, R	1		86		
See footnotes at end of table.								

STANDARD MICROCIRCUIT DRAWING	SIZE A		5962-13251
DLA LAND AND MARITIME		REVISION LEVEL	SHEET
COLUMBUS, OHIO 43218-3990		A	5

Test	Symbol	Conditions $V_S = \pm 15 \text{ V}, \text{ V}_{CM}$	Group A subgroups	Device type	Limits		Unit	
		$-55^{\circ}C \le T_A \le$ unless otherwis				Min	Max	
Power supply rejection ratio	PSRR	$V_{S} = \pm 2 \text{ V to } \pm 16 \text{ V}$		1	01	90		dB
				2, 3	-	88		
			D, L, R	1		90		
Gain bandwidth product		f = 100 kHz		4	01	6.8		MHz
				5, 6		5.8		_
			D, L, R	4		4.5		
Output voltage swing (low) <u>3</u> /	VOL	No load		4	01		30	mV
				5, 6			75	-
			D, L, R	4			60	-
		I _{SINK} = 1 mA		4			100	_
				5, 6			150	
			D, L, R	4			100	_
		I _{SINK} = 10 mA		4			500	-
			D, L, R	4			500	_
		I _{SINK} = 5 mA		5, 6			500	
Output voltage swing (high) 3/	V _{OH}	No load		4	01		10	mV
				5, 6			25	
			D, L, R	4			20	_
		I _{SINK} = 1 mA		4			150	
				5, 6			250	
			D, L, R	4			150	_
		I _{SINK} = 10 mA		4			800	
			D, L, R	4			800	
		I _{SINK} = 5 mA		5, 6			800	

DSCC FORM 2234 APR 97

	TABLE	I. Electrical performar	ice characteris	i <u>tics</u> - Continu	ed.			
Test	Symbol				Device type	Lir	nits	Unit
		$-55^{\circ}C \leq T_A \leq -1$ unless otherwise				Min	Max	
Short circuit current				1	01	±15		mA
				2, 3		±7.5		
			D, L, R	1		±10		
Supply current per amp	IS			1	01		2.5	mA
				2, 3			3	
			D, L, R	1			2.5	
Slew rate	SR	$A_V = -1, \ R_L = 10 \ k\Omega,$	V _O = ±10 V,	4	01	3.5		V/µs
		measure at V _O = ± 5	V	5, 6		2.2		
			D, L, R	4		3		

See footnotes at end of table.

STANDARD MICROCIRCUIT DRAWING	SIZE A		5962-13251
DLA LAND AND MARITIME		REVISION LEVEL	SHEET
COLUMBUS, OHIO 43218-3990		A	7

Test	Symbol	Conditions $1/2/V_S = 5 V$, $V_{CM} = V_{OUT} = half supply$ $-55^{\circ}C \le T_A \le +125^{\circ}C$		Group A subgroups	Device type	Lim	nits Max	Unit
		unless otherwise sp	ecified	1	01		900	
Input offset voltage	VOS	$V_{CM} = +V_S, -V_S$		1	01		800	μV
		$V_{CM} = +V_{S} - 0.5 V, -V_{S}$		2, 3	-		1100	-
lanut bias aurosat		$V_{CM} = +V_S, -V_S$ D	, L, K	1	01	0	950	
Input bias current	IB	$V_{CM} = +V_S$		1	01	0	650	nA
		$V_{CM} = +V_{S} - 0.5 V$		2, 3	-	050	1100	-
		$V_{CM} = -V_S$		1		-650	0	-
		$V_{CM} = -V_{S} + 0.5 V$		2, 3		-1100	0	-
		$V_{CM} = +V_S, -V_S$	D	1			700	-
		R		1			800 850	-
Input offset current	los	$V_{CM} = +V_S, -V_S$		1	01		65	nA
		$V_{CM} = +V_S - 0.5 V, -V_S$: + 0.5 V	2, 3	-		300	-
		$V_{CM} = +V_S, -V_S$ D		1	-		65	-
Input voltage range	VIN			1	01	-VS	+VS	V
				2, 3		-VS + 0.5 V	+VS - 0.5 V	-
Large signal voltage gain	A _{VOL}	+V _S = 5 V, R _L = 10 kΩ,		4	01	600		V/mV
		$V_{O} = 75 \text{ mV} \text{ to } 4.8 \text{ V}$		5, 6		60		
		D	L, R	4		300		
Common mode rejection	CMRR	V_{CM} = + V_{S} to - V_{S}		1	01	76		dB
ratio		$V_{CM} = 0.5 V$ to 4.5 V		2, 3		68		
Power supply rejection ratio	PSRR	$V_{\rm S}$ = 4.5 V to 12 V,		1	01	88		dB
		V _{CM} = V _O = 0.5 V		2, 3		86		
			D, L, R	1		88		
See footnotes at end of table								

SIZE

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REVISION LEVEL

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5962-13251

8

SHEET

DSCC FORM 2234 APR 97 STANDARD

MICROCIRCUIT DRAWING DLA LAND AND MARITIME

COLUMBUS, OHIO 43218-3990

	TABLE	I. Electrical performar	nce character	<u>istics</u> - Continu	ed.			
Test	Symbol	Conditions $\frac{1}{2}$ / V _S = 5 V, V _{CM} = V _{OUT} = half supply		Group A subgroups	Device type	Lir	nits	Unit
		$-55^{\circ}C \leq T_A \leq +$ unless otherwise	-125°C			Min	Max	
Gain bandwidth product	GBWP	f = 100 kHz		4	01	6.8		MHz
				5, 6		5.8		
Output voltage swing (low) 3/	V _{OL}	No load		4	01		30	mV
				5, 6	-		75	_
			D, L, R	4			60	_
		I _{SINK} = 1 mA		4			100	
				5, 6	-		150	_
			D, L, R	4	-		100	-
		I _{SINK} = 2.5 mA		4	-		200	_
			[5, 6			220	_
			D, L, R	4			200	
Output voltage swing (high) <u>3</u> /	VOH	No load		4	01		10	mV
				5, 6	-		25	-
			D, L, R	4	-		20	_
		I _{SOURCE} = 1 mA		4			150	_
				5, 6	-		250	
			D, L, R	4	-		150	-
		ISOURCE = 2.5 mA		4	-		250	_
				5, 6	-		300	-
			D, L, R	44			250	
See footnotes at end of table.								
STAN MICROCIRCU DLA LAND AN COLUMBUS, OF	I IT DRAW	1E	SIZE A	REVISIO	N LEVEL A	SH	5962-13	3251

Test	Symbol	v3-0v,		Group A subgroups	Device type	Lir	nits	Unit
		$V_{CM} = V_{OUT} = h$ -55°C $\leq T_A \leq H$ unless otherwise	+125°C			Min	Max	-
Short circuit current	I _{SC}	V _S = 5 V		1	01	±12.5		mA
				2, 3		±5		
			D, L, R	1		±8		
Supply current per amp	IS			1	01		2.2	mA
				2, 3			2.7	
			D, L, R	1			2.2	
Slew rate	SR	$V_{S} = \pm 2.5 V, A_{V} = -1$, R _L = 10 kΩ,	4	01	2.6		V/µs
		$V_{O} = \pm 2 V$, measure	at V _O = ±1 V	5, 6		2		
			D, L, R	4		2		
 Devices supplied to this irradiation values are id measurements for any Device type 01 has bee parameters are guarant total dose of 100 krads dose rate sensitive in a Output voltage swings a 	entical unless RHA level, T _A en tested at hig teed only for th (Si), and cond space enviror	otherwise specified in = +25°C. gh dose and low dose in the conditions as specificition D to a maximum to the ment and may demon	Table I. Whe irradiation test fied in MIL-STI total dose of 50 instrate enhanc	n performing rates and end D-883, method D krads (Si). I ed low dose r	bost irrad d point lim d 1019, co However,	iation elec hits for the ondition A device typ	trical noted to a maxii be 01 may	

STANDARD MICROCIRCUIT DRAWING	SIZE A		5962-13251
DLA LAND AND MARITIME		REVISION LEVEL	SHEET
COLUMBUS, OHIO 43218-3990		A	10

Device type	01
Case outline	х
Terminal	Terminal
number	symbol
1	OUT A
2	-IN A
3	+IN A
4	+V _S
5	+IN B
6	-IN B
7	OUT B
8	OUT C
9	-IN C
10	+IN C
11	-VS
12	+IN D
13	-IN D
14	OUT D

FIGURE 1. Terminal connections.

STANDARD MICROCIRCUIT DRAWING	SIZE A		5962-13251
DLA LAND AND MARITIME COLUMBUS, OHIO 43218-3990		REVISION LEVEL A	SHEET 11
DSCC FORM 2234			

APR 97

4. VERIFICATION

4.1 <u>Sampling and inspection</u>. 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.

4.2 <u>Screening</u>. 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.

- 4.2.1 Additional criteria for device classes Q and V.
 - 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 method 1015 of MIL-STD-883.
 - b. Interim and final electrical test parameters shall be as specified in table IIA herein.
 - c. 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 <u>Qualification inspection for device classes Q and V</u>. 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).

4.4 <u>Conformance inspection</u>. 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.

4.4.1 Group A inspection.

- a. Tests shall be as specified in table IIA herein.
- b. Subgroups 7, 8, 9, 10, and 11 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 IIA herein.

4.4.2.1 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 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 IIA herein.

STANDARD MICROCIRCUIT DRAWING	SIZE A		5962-13251
DLA LAND AND MARITIME COLUMBUS, OHIO 43218-3990		REVISION LEVEL A	SHEET 12
DSCC FORM 2234			

Test requirements	Subgroups				
	(in accordance with				
	MIL-PRF-38535, table III)				
	Device	Device			
	class Q	class V			
Interim electrical					
parameters (see 4.2)					
Final electrical	1, 2, 3, <u>1</u> /	1, 2, 3, <u>2</u> /			
parameters (see 4.2)	4, 5, 6	4, 5, 6			
Group A test	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6			
requirements (see 4.4)					
Group C end-point electrical	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6 <u>2</u> /			
parameters (see 4.4)					
Group D end-point electrical	1, 2, 3	1, 2, 3			
parameters (see 4.4)					
Group E end-point electrical	1, 4	1, 4			
parameters (see 4.4)					

TABLE IIA. Electrical test requirements.

1/ PDA applies to subgroup 1.

2/ Delta limits as specified in table IIB shall be required where specified, and the delta limits shall be completed with reference to the previous electrical parameters.

TABLE IIB. Burn-in and op	erating life test delta parameters. 1/	
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Parameters	Symbol	Endpoint limit		Delta limits		Units
		Min	Max	Min	Max	
Input offset voltage	Vos	-800	+800	-250	+250	μV
Input bias current	Ι _Β	-715	+715	-350	+350	nA
Input offset current	IOS	-70	+70	-50	+50	nA

<u>1</u>/ V_S = 15 V and T_A = +25°C.

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 IIA 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. All device classes must meet the postirradiation end-point electrical parameter limits as defined in table I at $T_A = +25^{\circ}C \pm 5^{\circ}C$, after exposure, to the subgroups specified in table IIA herein.

4.4.4.1 <u>Total dose irradiation testing</u>. Total dose irradiation testing shall be performed in accordance with MIL-STD-883 method 1019, condition A and condition D as specified herein.

4.4.4.1.1 <u>Accelerated annealing test</u>. Accelerated annealing tests shall be performed on all devices requiring a RHA level greater than 5 krads(Si). The post-anneal end-point electrical parameter limits shall be as specified in table I herein and shall be the pre-irradiation end-point electrical parameter limit at $+25^{\circ}$ C $\pm 5^{\circ}$ C. Testing shall be performed at initial qualification and after any process or design changes which may affect the RHA response of the device.

DLA LAND AND MARITIME REVISION LEVEL SHEET	2-13251	5962		SIZE A	STANDARD MICROCIRCUIT DRAWING
COLUMBUS, OHIO 43218-3990 A 13	13	SHEET	A		DLA LAND AND MARITIME COLUMBUS, OHIO 43218-3990

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.

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.

6.2 <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 using DD Form 1692, Engineering Change Proposal.

6.3 <u>Record of users</u>. Military and industrial users should inform DLA Land and Maritime when a system application requires configuration control and which SMD's are applicable to that system. DLA Land and Maritime 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 DLA Land and Maritime-VA, telephone (614) 692-8108.

6.4 <u>Comments</u>. Comments on this drawing should be directed to DLA Land and Maritime-VA, Columbus, Ohio 43218-3990, or telephone (614) 692-0540.

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.

6.6 Sources of supply.

6.6.1 <u>Sources of supply for device classes Q and V</u>. Sources of supply for device classes Q and V are listed in MIL-HDBK-103 and QML-38535. The vendors listed in MIL-HDBK-103 and QML-38535 have submitted a certificate of compliance (see 3.6 herein) to DLA Land and Maritime-VA and have agreed to this drawing.

STANDARD MICROCIRCUIT DRAWING	SIZE A		5962-13251
DLA LAND AND MARITIME COLUMBUS, OHIO 43218-3990		REVISION LEVEL A	SHEET 14
DSCC FORM 2234			

STANDARD MICROCIRCUIT DRAWING BULLETIN

DATE: 16-04-04

Approved sources of supply for SMD 5962-13251 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 DLA Land and Maritime-VA. This information bulletin is superseded by the next dated revision of MIL-HDBK-103 and QML-38535. DLA Land and Maritime maintains an online database of all current sources of supply at http://www.landandmaritime.dla.mil/Programs/Smcr/.

Standard	Vendor	Vendor
microcircuit drawing	CAGE	similar
PIN <u>1</u> /	number	PIN <u>2</u> /
5962R1325101VDA	64155	RH1499MW

- 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.
- <u>2</u>/ <u>Caution</u>. 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 Vendor name and address

64155

Linear Technology Corporation 1630 McCarthy Boulevard Milpitas, CA 95035-7417

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