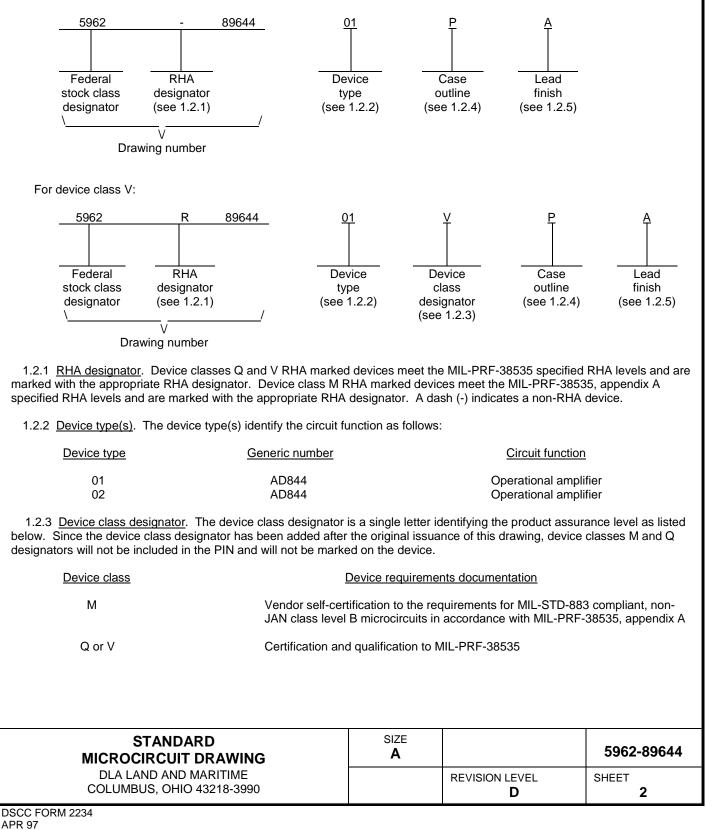
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A	Add device classe requirements. Add	s Q and V rec d case outline	quireme 2ro	nts and	l radiati	ion har	dened				00-0)7-17			R. M	ONNIN	1
В	Drawing updated	rawing updated to reflect current requirementsrrp							05-01-20 R. MONNIN				1				
С	Update drawing to	Update drawing to current requirements of MIL-PRF-38535.				-rrp			11-07-19 C. SAFFLE								
D	Add device type 0	2. Delete rad	iation ex	xposure	e circuit	t ro					12-0	05-31 C. SAFFLE					
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THIS DRAWI	NG IS AVAILABLE SE BY ALL	APPROVE MICHAEL	A. FR										OPER		NAL		
DEPA AND AGE	RTMENTS NCIES OF THE NT OF DEFENSE	DRAWING) 5-24	DATE		AM	PLIF	IER,	MON	OLIT	HIC	SILIC	ON			
AM	SC N/A	REVISION		D				ZE A		GE CC 67268	3			5962-	·8964	14	
								SI	HEET	1	OF	11					

1. SCOPE

1.1 <u>Scope</u>. 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 is reflected in the PIN.

1.2 PIN. The PIN is as shown in the following examples.

For device classes M and Q:



1	.2.4 Case outline(s). T	he case outline(s) are as designated	d in MIL-STD-1835	and as follows:	
	Outline letter	Descriptive designator	Terminals	Package style	
	P 2	GDIP1-T8 or CDIP2-T8 CQCC1-N20	8 20	Dual-in-line package Square leadless chi	
	.2.5 Lead finish. The le	ead finish is as specified in MIL-PRF s M.	-38535 for device	classes Q and V or MIL-PR	F-38535,
1	.3 Absolute maximum r	<u>atings</u> . <u>1</u> /			
	Supply voltage ($\pm V_S$)			±18 V	
	•	oltage		-	
	•	ation			
		e		$+V_S$ and $-V_S$	
	Internal power dissipat	ion (P _D): <u>2</u> /		4 0 \\/	
		لر]		-	
		dering, 60 seconds)			
	Storage temperature ra	ange		-65°C to +150°C	
	Thermal resistance, jur				
				+35°C/W	
		nction-to-ambient (θ_{JA}):		1100000	
1	.4 Recommended oper	ating conditions.			
	Positive supply voltage	(+V _S)		+15 V	
	Negative supply voltag	e (-V _S)		-15 V	
	Ambient operating tem	perature range (T _A)		-55°C to +125°C	
1	.5 Radiation features.				
	Device type 01	vailable (dose rate = 50 – 300 rads(100 krads(Si) <u>3</u> /	
	Maximum total dose av	vailable (dose rate \leq 10 mrads(Si)/s)	:	50 krads(Si) $4/$	
	Device type 02			50 Mads(0) <u>+</u> /	
<u>1</u> /		solute maximum rating may cause p egrade performance and affect relia		to the device. Extended o	peration at the
<u>2</u> /		er dissipation is specified so that T _J at 8.7 mW/°C. Derate the 2 packag		-175°C at an ambient temp	erature of +25°C.
<u>3</u> /	Device type 01 may be Radiation end point lim	dose rate sensitive in a space envi its for the noted parameters are gua	ronment and may		
<u>4</u> /	method 1019, condition Device type 02 radiatio MIL-STD-883 method	n end point limits for the noted para	meters are guaran	teed only for the conditions	specified in
		ANDARD CUIT DRAWING	SIZE A		5962-89644
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DSCO	C FORM 2234				

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>https://assist.daps.dla.mil/quicksearch/</u> or 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 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 outlines. The case outlines shall be in accordance with 1.2.4 herein .

3.2.2 Terminal connections. The terminal connections shall be as specified on figure 1 .

3.2.3 <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. Marking for device class M shall be in accordance with MIL-PRF-38535.

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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 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 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 DLA Land and Maritime-VA of change of product (see 6.2 herein) involving devices acquired to this drawing is required for any change that affects this drawing.

3.9 <u>Verification and review for device class M</u>. For device class M, DLA Land and Maritime, DLA Land and Maritime '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 <u>Microcircuit group assignment for device class M</u>. Device class M devices covered by this drawing shall be in microcircuit group number 49 (see MIL-PRF-38535, appendix A).

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1 2,3 1 1,2,3 1,2,3	01, 02 01 02 01, 02	Min -300 -500 -1000 -1000	Max +300 +500 +1000 +1000 20	μV
2,3 1 1,2,3	01	-500 -1000	+500 +1000 +1000	
1	02	-1000	+1000 +1000	-
1,2,3	02		+1000	
_		-1000		
_	01, 02		20	
1,2,3			I	μV/V
1,2,3			20	
	01, 02	10		V
		-10	 	
1	01, 02		7.5	mA
2,3	-		9.5	
1	01, 02	-450	+450	nA
2,3	-	-2500	+2500	
1	01	-2500	+2500	
	02	-2500	+2500	
1	01, 02	-400	+400	
2,3		-1300	+1300	
1	01	-1300	+1300	
	02	-1300	+1300	
1,2,3	01, 02		+10	V
			-10	
1	01, 02	2.2		MΩ
2,3		1.3		-
1	01	1.3		-
	02	1.3		1
	1 2,3 1 2,3 1 2,3 1 1,2,3 1 2,3	$\begin{array}{c c} 1 & 01, 02 \\ \hline 2,3 & \\ \hline 1 & 01 \\ \hline 02 \\ \hline 1 & 01, 02 \\ \hline 2,3 & \\ \hline 1 & 01 \\ \hline 2,3 & \\ \hline 1 & 01 \\ \hline 02 \\ \hline 1,2,3 & 01, 02 \\ \hline 1 & 01, 02 \\ \hline 2,3 & \\ \hline \end{array}$		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

D

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Test	Symbol	Conditions $1/2/$ -55°C \leq T _A \leq +125°C \pm V _S = \pm 15 V	Group A subgroups	Device type	Lim	its <u>3</u> /	Unit
		unless otherwise specified			Min	Max	
Input bias current versus supply	+TC _S	5 V to 18 V <u>5/</u> 8/ <u>9</u> /	4	01, 02		150	nA/V
			5,6			200	
	-TC _S]	4			250]
			5,6			300	1
Input bias current versus common-mode	+TC _{CM}	V _{CM} = ±10 V <u>5/6/8</u> /	4	01, 02		150	nA/V
			5,6			200	
	-TC _{CM}	1	4			160	1
			5,6	-		200	
Common-mode rejection ratio	CMRR	V _{CM} = ±10 V <u>5/8</u> /	4,5,6	01, 02		35	μV/V
Device type 02 supplied to However, device type 01, irradiation values are iden measurements for any RH	o this drawing is only tested ntical unless o HA level, T _A =	ig has been characterized throu ig has been characterized throu id at the "R" level and device typ otherwise specified in table I. V = +25°C. sitive in a space environment ar	igh level "L" of pe 02 is only te When performin	irradiation. sted at the ng post irra	"L" level diation el	. Pre and ectrical	
	for the noted	d parameters are guaranteed or ype 01 and condition D for device	nly for the cond	litions as s	pecified i	n MIL-STE	D-883 ,
method 1019, condition A	-	establish the limits for these tes					

5/ This parameter is not tested post irradiation.

<u>6</u>/ Bias current parameters are guaranteed maximum after the equivalent of five minutes at $T_A = +25^{\circ}C$.

7/ This parameter is guaranteed by testing common-mode rejection ratio.

8/ Guaranteed, if not tested, to the limits specified in table I herein.

 $\underline{9}$ / Test conditions are as follows, when +V_S = +15 V, -V_S = -5 V to -18 V, and when -V_S = -15 V, +V_S = +5 V to +18 V.

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Device types	01,	02
Case outlines	Р	2
Terminal number	Termina	l symbol
1	NULL	NC
2	-INPUT	NULL
3	+INPUT	NC
4	-VS	NC
5	TZ (See note 1)	-INPUT
6	OUTPUT	NC
7	+V _S	+INPUT
8	NULL	NC
9		NC
10		-Vs
11		NC
12		TZ (See note 1)
13		NC
14		NC
15		OUTPUT
16		NC
17		+VS
18		NC
19		NC
20		NULL

NOTE:

1. In this device, transient current at the input does not cause voltage spikes at the summing node while the amplifier is settling. Furthermore, all the transient current is delivered to the slewing (TZ) node via a short signal path (the grounded base stages and the wideband current mirrors). The current available to charge the capacitance at TZ node, is always proportional to the input error current, and the slew rate limitations associated with the large signal response of operational amplifiers do not occur. The rise and fall times are almost independent of signal level.

FIGURE 1. Terminal connections.

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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. For device class M, sampling and inspection procedures shall be in accordance with MIL-PRF-38535, appendix A.

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. 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.

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

4.2.2 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. 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 IIA herein.
- b. Subgroups 7, 8, 9, 10, and 11 in table I, method 5005 of MIL-STD-883 shall be omitted.

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Test requirements	Subgroups	Subg	roups
	(in accordance with	(in accordance with	
	MIL-STD-883, method 5005, table I)	MIL-PRF-38	
	Device	Device	Device
	class M	class Q	class V
Interim electrical	1	1	1
parameters (see 4.2)			
Final electrical	1,2,3,4,5,6 <u>1/ 2</u> /	1,2,3, <u>1/ 2</u> /	1,2,3, <u>1/ 2</u> / <u>3</u> /
parameters (see 4.2)		4,5,6	4,5,6
Group A test	1,2,3,4,5,6 <u>2</u> /	1,2,3,4,5,6 <u>2</u> /	1,2,3,4,5,6 <u>2</u> /
requirements (see 4.4)			
Group C end-point electrical	1	1	1 <u>3</u> /
parameters (see 4.4)			
Group D end-point electrical	1	1	1
parameters (see 4.4)			
Group E end-point electrical	1	1	1
parameters (see 4.4)			

TABLE IIA. Electrical test requirements.

1/ PDA applies to subgroup 1. VOS, IOS, and deltas excluded from PDA.

2/ Subgroup 4, 5, and 6 if not tested, shall be guaranteed to the limits specified in table I herein.

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

TABLE IIB.	Burn-in and operating life test delta parameters. $T_A = +25^{\circ}C$.	
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Test	Symbol	End point	Delta
Input offset voltage	Vos	±300 μV	$\pm 150 \ \mu V$

4.4.2 <u>Group C inspection</u>. The group C inspection end-point electrical parameters shall be as specified in table IIA 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 or C. 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 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.

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

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4.4.3 Group D inspection. The group D inspection end-point electrical parameters shall be as specified in table IIA 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 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. 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 Transition of the result of the subsequence association of the subsequence and the subsequence association.

 T_A = +25°C ±5°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 for device type 01 and condition D for device type 02 and as specified herein.

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 contractorprepared 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) 692-0544.

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 QML-38535. The vendors listed in QML-38535 have submitted a certificate of compliance (see 3.6 herein) to DLA Land and Maritime-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 DLA Land and Maritime-VA.

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STANDARD MICROCIRCUIT DRAWING BULLETIN

DATE: 12-05-31

Approved sources of supply for SMD 5962-89644 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 microcircuit drawing PIN <u>1</u> /	Vendor CAGE number	Vendor similar PIN <u>2</u> /
5962-8964401PA	24355 (2)	AD844SQ/883B
5962-8964401VPA	24355 (4)	AD844SQ/QMLV
5962-8964401V2A	<u>3</u> /	AD844SE/QMLV
5962R8964401VPA	24355 (4)	AD844SQ/QMLR
5962R8964401V2A	<u>3</u> /	AD844SE/QMLR
5962L8964402VPA	24355 (4)	AD844SQ/QMLL

- 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.
- <u>3</u>/ Not available from approved source of supply.

Vendor CAGE number

24355

Vendor name and address

Analog Devices (2) RT 1 Industrial Park P.O. Box 9106 Norwood, MA 02062 Point of contact: 804 Woburn Street Wilmington, MA 01887-3462

24355

Analog Devices (4) RT 1 Industrial Park P.O. Box 9106 Norwood, MA 02062 Point of contact: 7910 Triad Center Drive Greensboro, NC 27409-9605

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