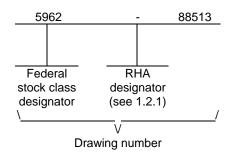
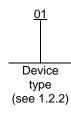
									REVISI	ONS										
LTR					ļ	DESCF	RIPTIO	N					DATE (YR-MO-DA)			APPROVED)	
Α	Page 2, 1.4, add IVR test conditions. Page 4, table I, I _{IB} and to guarantee subgroup 3. For I _{OS} , change unit from pA to r For V _O , add subgroup 6. Editorial changes throughout.						pA to n		idd foot	tnote	88-07-19		M. A. FRYE							
В	Add	device	type 02	2 and c	ase ou	tline, F	-4. Edi	torial c	hanges	throug	hout.			91-0	3-07			M. A. FRYE		
С	Char	nge boi	lerplate	e to add	l one-p	art par	t numb	ers. Ad	dd delta	a test lir	nits.			96-1	1-13			R. M	IONNIN	
D	Make	e chanç	jes to t	able II <i>A</i>	\ ro									02-0)1-07		R. MONNIN			
E	Make R _L =	e chanç 10 kΩ.	ge to th -rrp	e first o	conditio	n of th	e A _{vo} te	est in ta	able I fr	om R _L :	= 1 kΩ	to		02-0)7-23			R. M	IONNIN	
F	Draw	ing up	dated to	o reflec	t curre	nt requ	iremen	tsrrp)					09-0)3-09			R. F	HEBER	
THE ORIGINAL	L FIRST	SHEE	T OF T	THIS DI	RAWIN	IG HAS	S BEEN	I REPL	.ACED.											
REV SHEET REV SHEET REV STATUS		SHEE	T OF 1	REV	,	IG HAS	F	F	F	F	F	F	F	F	F	F	F			
REV SHEET REV SHEET		SHEE	T OF 1	REV SHE	' EET	DBY		F 2			5	6	7	F 8	9	10	11	_UME	BUS	
REV SHEET REV SHEET REV STATUS OF SHEETS PMIC N/A	NDAF	RD	T OF 1	REV SHE PRE N	EET PAREI	D BY A B. KE	F 1	F 2	F	F	5	6 EFEN	7 SE SI	8	9 .Y CE	10 NTEF O 432	11 R COL 218-3		BUS	
REV SHEET REV SHEET REV STATUS OF SHEETS PMIC N/A STA MICRO DRA THIS DRAWII FOR U	NDAF	RD CUIT G		REV SHE PRE N	PROVE	D BY A B. KE BY CENZO	F 1	F 2	F	F 4	DI CROC	EFEN CO	SE SI DLUM http:	UPPL IBUS,	9 Y CE, OHIO vw.ds	NTEFO 433	11 R COL 218-3: a.mil	990 ED, F	BUS	
REV SHEET REV SHEET REV STATUS OF SHEETS PMIC N/A STA MICRO DRA THIS DRAWII FOR U	NDAF OCIRO AWIN NG IS A JSE BY JRTMEN NCIES O	RD CUIT G VAILA ALL ITS	BLE	REV SHE PRE N	CKED D. A. Di	D BY CENZO	F 1 COVAL COVAC C	F 2	F	F 4	DI CROC	EFEN CO	SE SI DLUM http:	UPPLIBUS, D://ww	9 Y CE, OHIO vw.ds	NTEFO 433	11 R COL 218-3: a.mil	990 ED, F		
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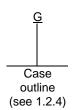
1. SCOPE

- 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 are reflected in the PIN.
 - 1.2 PIN. The PIN is as shown in the following examples.

For device classes M and Q:

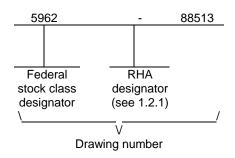


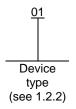


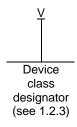


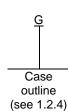


For device class V:











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

Device type	Generic number	<u>Circuit function</u>
01	OP-42A	High speed, fast settling, precision operational amplifier
02	OP-42B	High speed, fast settling, precision operational amplifier

1.2.3 <u>Device class designator</u>. The device class designator is a single letter identifying the product assurance level as listed below. Since the device class designator has been added after the original issuance of this drawing, device classes M and Q designators will not be included in the PIN and will not be marked on the device.

<u>Device class</u>	Device requirements documentation
М	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

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1.2.4 <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
_			
G	MACY1-X8	8	Can
Н	GDFP1-F10 or CDFP2-F10	10	Flat pack
Р	GDIP1-T8 or CDIP2-T8	8	Dual-in-line
2	CQCC1-N20	20	Square lead less chip carrier

1.2.5 <u>Lead finish</u>. 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.

1.3 Absolute maximum ratings. 1/

Supply voltage (V _S)	±20 V
Input voltage (V _{IN})	±20 V <u>2</u> /
Differential input voltage	±40 V <u>2</u> /
Output short-circuit duration	Indefinite
Storage temperature range	-65°C to +150°C
Lead temperature (soldering, 60 seconds)	+300°C
Power dissipation (P _D)	500 mW <u>3</u> /
Thermal resistance, junction-to-case (θ_{JC})	See MIL-STD-1835
Thermal resistance, junction-to-ambient (θ_{JA}):	
Case G	150°C/W
Cases H and P	119°C/W
Case 2	120°C/W

1.4 Recommended operating conditions.

Supply voltage (V _S)	±15 V
Source resistance (R _S)	50Ω
Common mode voltage (V _{CM})	0 V
Input voltage range (V _{INR})	±11 V
Ambient operating temperature range (T _A)	-55°C to +125°C

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.

^{3/} Must withstand the added PD due to short circuit test, e.g., ISC.

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^{1/} Unless otherwise specified, $T_A = +25^{\circ}C$.

 $[\]overline{2}$ / For supply voltages less than 20 V, the absolute maximum input voltage is equal to the supply voltage.

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 http://assist.daps.dla.mil/quicksearch/ 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 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 post irradiation parameter limits</u>. Unless otherwise specified herein, the electrical performance characteristics and post irradiation 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, 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.

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	Т	ABLE I. Electrical performance	e characteristic	<u>s</u> .			
Test	Symbol	Conditions $\underline{1}/$ -55°C \leq T _A \leq +125°C unless otherwise specified	Group A subgroups	Device type		mits	Unit
Input offset voltage	1		1	01	Min	Max ±1.0	mV
input onset voltage	Vos					⊥1.0	1110
				02		±1.5	
			2,3	All		±2.0	
Input bias current	I _{IB}		1	All		±200	pA
			2,3 <u>2</u> /			±20	nA
Input offset current	los		1	All		±40	рА
			2,3 <u>2</u> /	-		±1	nA
Common mode 3/ rejection	CMR	V _{CM} = IVR = ±11 V	1	All	86		dB
rejection			2,3	-	80		_
Power supply rejection ratio	PSRR	V _S = ±10 V to ±20 V	1	All		40	μV/V
TallO			2,3			50	
Short circuit output current	I _{SC}	Output shorted to ground	1	All	20	60	mA
Current			2,3		8	60	
Supply current	ISY	V _O = 0 V, no load	1,2,3	All		6.0	mA
External V _{OS} trim range	Vos	R _{POT} = 10 kΩ,	1	All	±2.5	±10	mV
		T _A = +25°C					
Output voltage swing	Vo	R _L = 1 kΩ	4	All	±11.5		V
		R _L = 2 kΩ	5,6		±11.0		
Large signal voltage gain	Avo	$R_L = 10 \text{ k}\Omega, V_O = \pm 10 \text{ V}$	4	All	500		V/mV
			5,6	=	160		_
		$R_L = 2 \text{ k}\Omega, V_O = \pm 10 \text{ V}$	4	1	200		
			5,6	1	80		
		$R_L = 1 \text{ k}\Omega, V_O = \pm 10 \text{ V},$	4	1	100		
		T _A = +25°C					

See footnotes at end of table.

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TABLE I. <u>Electrical performance characteristics</u> – Continued.

Test	Symbol	Conditions $\underline{1}/$ -55°C \leq T _A \leq +125°C unless otherwise specified	Group A subgroups	Device type	Lir	nits	Unit
					Min	Max	
Slew rate <u>4</u> /	SR	$A_{VCL} = +1, R_L = 2 k\Omega$	7	All	45		V/μs
			8		40		
Input offset voltage temperature coefficient	TCVOS	T _A = -55°C, +125°C	8	All		10	μV/°C
Settling time	ts	See figure 2, T _A = +25°C, 0.1 % for 10 V step	9	All		1.0	μS

- 1/ Unless otherwise specified, $V_S = \pm 15 \text{ V}$, $V_{CM} = 0 \text{ V}$, $R_S = 50 \Omega$, and $T_A = T_J$.
- 2/ Subgroup 3, if not tested, shall be guaranteed to the limits specified in table I herein.
- 3/ IVR is defined as the V_{CM} range used for the CMR test.
- 4/ Slew rate may be specified separately for positive and negative going changes.
- 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 that affects this drawing.
- 3.9 <u>Verification and review for device class M.</u> 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 <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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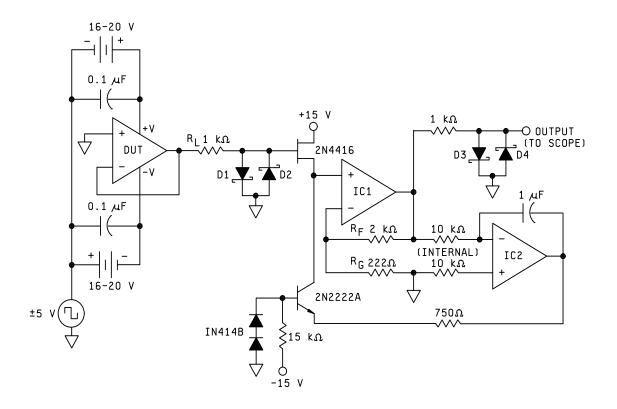
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Device types	C	02	
Case outlines	G and P	2	Н
Terminal number		L	
1	NULL	NC	NC
2	-INPUT	NULL	NULL
3	+INPUT	NC	-INPUT
4	-V	NC	+INPUT
5	NULL	-INPUT	-V
6	OUTPUT	NC	NULL
7	+V	+INPUT	OUTPUT
8	NC	NC	+V
9		NC	NC
10		-V	NC
11		NC	
12		NULL	
13		NC	
14		NC	
15		OUTPUT	
16		NC	
17		+V	
18		NC	
19		NC	
20		NC	

NC = No connection

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

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NOTES: Schottky diodes D1 – D4 are HP5082-2835 or equivalent. IC1 is CLC200A1 or equivalent. IC2 is OP41EJ or equivalent.

FIGURE 2. Settling-time test circuit.

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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 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 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 10 and 11 in table I, method 5005 of MIL-STD-883 shall be omitted.

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TABLE IIA. Electrical test requirements.

Test requirements	Subgroups (in accordance with MIL-STD-883, method 5005, table I)	(in accor	groups dance with 8535, 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)	1,2,3,4,5, <u>1</u> / 6,7,8	1,2,3,4,5, <u>1</u> / 6,7,8	1,2,3,4,5, <u>2</u> / <u>3</u> / 6,7,8
Group A test requirements (see 4.4)	1,2,3,4,5, 6,7,8,9	1,2,3,4,5, 6,7,8,9	1,2,3,4,5, 6,7,8,9
Group C end-point electrical parameters (see 4.4)	1	1	1 <u>3</u> /
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/ PDA applies to subgroups 1 and 7. Exclude deltas from PDA.
- 3/ See table IIB for delta measurement parameters.

TABLE IIB. 240 hour burn-in and group C end-point electrical parameters.

Test	Limit		Unit	De	elta	Unit
	Min	Max		Min	Max	
Vos		+1	mV	-500	+500	μV
I _{IB}	-200	+200	рА	-100	+100	pА

- 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 class M. Steady-state life test conditions, method 1005 of MIL-STD-883:
 - a. 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 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 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.

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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 post irradiation end-point electrical parameter limits as defined in table I at $T_A = +25$ °C, after exposure, to the subgroups specified in table IIA 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 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 Defense Supply Center Columbus (DSCC) 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) 692-0544.
- 6.4 <u>Comments</u>. Comments on this drawing should be directed to DSCC-VA, Columbus, Ohio 43218-3990, or telephone (614) 692-0547
- 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 DSCC-VA and have agreed to this drawing.
- 6.6.2 Approved sources of supply for device class M. 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 MICROCIRCUIT DRAWING	SIZE A		5962-88513
DEFENSE SUPPLY CENTER COLUMBUS COLUMBUS, OHIO 43218-3990		REVISION LEVEL F	SHEET 11

STANDARD MICROCIRCUIT DRAWING BULLETIN

DATE: 09-03-09

Approved sources of supply for SMD 5962-88513 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 information bulletin is superseded by the next dated revision of MIL-HDBK-103 and QML-38535. DSCC maintains an online database of all current sources of supply at http://www.dscc.dla.mil/Programs/Smcr/.

Standard microcircuit drawing PIN <u>1</u> /	Vendor CAGE number	Vendor similar PIN <u>2</u> /	Reference military specification PIN
5962-8851301GA	24355 (2)	OP-42AJ/883	M38510/12208BGA
5962-8851301PA	24355 (2)	OP-42AZ/883	M38510/12208BPA
5962-88513012A	24355 (2)	OP-42ARC/883	M38510/12208B2A
5962-8851301VGA	24355 (4)	OP-42AJ/QMLV	
5962-8851301VPA	24355 (4)	OP-42AZ/QMLV	
5962-8851301V2A	<u>3</u> /	OP-42ARC/QMLV	
5962-8851302HA	24355 (2)	OP-42BL/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.
- <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.
- 3/ Not available from an approved source of supply.

Vendor CAGE number	Vendor name and address
24355	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.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов:
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001:
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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