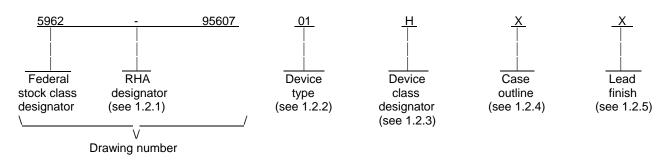
								R	EVISI	ONS										
LTR		DESCRIPTION								DA	TE (YF	R-MO-	DA)		APPR	OVED)			
А	Correct symbol for junction temperature in paragraph 1.3											98-11-13			к	. A. C	ottongi	im		
В	Upda	Update drawing.									06-0	6-05		Ra	aymon	d Mon	nin			
REV																				
SHEET																				
REV																				
SHEET					,			_	_	_	_	_	_	_	_	_	_	_		
REV STATUS	ò			RE\ SHE			B 1	В 2	В 3	В 4	В 5	В 6	В 7	В 8	В 9	B 10	B 11	B 12		
								2	3	4	5	0	1	0	Э	10	11	12		
PMIC N/A PREPARED BY Steve L. Duncan STANDARD MICROCIRCUIT DRAWING CHECKED BY Michael Jones				DEFENSE SUPPLY CENTER COLUMBUS POST OFFICE BOX 3990 COLUMBUS, OHIO 43218-3990 http://www.dscc.dla.mil																
THIS DRAWING IS AVAILABLE FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DRAWING APPROVAL DATE				MICROCIRCUIT, HYBRID, LINEAR, 5 VOLT, SINGLE OUTPUT WITH INTEGRAL EMI FILTER, DC/DC CONVERTER					- ,											
DEPARTMEN				DRA	winc		ROVA 0-30	L DAT	E											
AMS	SC N/A	A		REV	ISION	N LEVE	EL B			SI.	ZE		GE CO 67268			59	62-	956	607	I
										SHE		1	1	OF	12					

1. SCOPE

1.1 <u>Scope</u>. This drawing documents five product assurance classes as defined in paragraph 1.2.3 and MIL-PRF-38534. A choice of case outlines and lead finishes which are available and are reflected in the Part or Identifying Number (PIN). When available, a choice of radiation hardness assurance levels are reflected in the PIN.

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



1.2.1 <u>Radiation hardness assurance (RHA) designator</u>. RHA marked devices shall meet the MIL-PRF-38534 specified RHA levels and shall be 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	ADDC02805SATV	DC/DC converter, 5 V, 100 W output, with integral EMI filter and output overvoltage protection

1.2.3 <u>Device class designator</u>. This device class designator shall be a single letter identifying the product assurance level. All levels are defined by the requirements of MIL-PRF-38534 and require QML Certification as well as qualification (Class H, K, and E) or QML Listing (Class G and D). The product assurance levels are as follows:

Device class	Device performance documentation
к	Highest reliability class available. This level is intended for use in space applications.
Н	Standard military quality class level. This level is intended for use in applications where non-space high reliability devices are required.
G	Reduced testing version of the standard military quality class. This level uses the Class H screening and In-Process Inspections with a possible limited temperature range, manufacturer specified incoming flow, and the manufacturer guarantees (but may not test) periodic and conformance inspections (Group A, B, C, and D).
E	Designates devices which are based upon one of the other classes (K, H, or G) with exception(s) taken to the requirements of that class. These exception(s) must be specified in the device acquisition document; therefore the acquisition document should be reviewed to ensure that the exception(s) taken will not adversely affect system performance.
D	Manufacturer specified quality class. Quality level is defined by the manufacturers internal, QML certified flow. This product may have a limited temperature range.

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1.2.4 Case outline(s). The	case outline(s) are as designated	in MIL-STD-1835	and as follows:	
Outline letter	Descriptive designator	<u>Terminals</u>	Package style	2
Х	See figure 1	17	Flat package	
1.2.5 Lead finish. The lead	finish shall be as specified in MIL	-PRF-38534.		
1.3 Absolute maximum ratir	ngs. <u>1</u> /			
Inhibit voltage range (pin 6 Sync voltage range (pin 7) Ishare voltage range (pin 9 Power dissipation (P _D) Output power Lead temperature (solderi Storage temperature rang Junction temperature (T _J)	5) 3) 9) ng, 10 seconds)	0.5 V 0.5 V 0.5 V 0.3 V 35 W 100 W +300° 65°C	dc to +50 V dc dc to +8 V dc dc to +6 V dc dc to +12 V dc $\frac{2}{2}$ C to +150°C	
1.4 Recommended operatin	<u>g conditions</u> .			
	e range (T _C)		dc to +40 V dc to +125°C	
2. APPLICABLE DOCUME	NTS			
2.1 <u>Government specification</u> of this drawing to the extent sp solicitation or contract.	on, standards, and handbooks. The cified herein. Unless otherwise	ne following speci specified, the issu	fication, standards, and ha les of these documents are	ndbooks form a part e those cited in the
DEPARTMENT OF DEFE	NSE SPECIFICATION			
MIL-PRF-38534 - Hyb	rid Microcircuits, General Specific	ation for.		
DEPARTMENT OF DEFE	NSE STANDARDS			
MIL-STD-883 - Test	uirements for the control of Electro Method Standard Microcircuits. face Standard for Electronic Com	-		eptibility.
DEPARTMENT OF DEFE	NSE HANDBOOKS			
	of Standard Microcircuit Drawings ndard Microcircuit Drawings.	3.		
(Copies of these documents or from the Standardization Do	s are available online at http://ase ocument Order Desk, 700 Robbins	sist.daps.dla.mil s Avenue, Building	/quicksearch/ or http://a g 4D, Philadelphia, PA 19 ⁻	ssist.daps.dla.mil 111-5094.)
2.2 Order of precedence. In this drawing takes precedence specific exemption has been o	n the event of a conflict between the Nothing in this document, howe btained.	he text of this dra ver, supersedes a	wing and the references cir applicable laws and regulat	ted herein, the text of tions unless a
cause permanent damage reliability.	s are limiting values, to be applied to the device. Extended operation e maintained at less than or equal	on at the maximur to +90°C.		
	DARD JIT DRAWING	SIZE A		5962-95607
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				-

3. REQUIREMENTS

3.1 <u>Item requirements</u>. The individual item performance requirements for device classes D, E, G, H, and K shall be in accordance with MIL-PRF-38534. Compliance with MIL-PRF-38534 may include the performance of all tests herein or as designated in the device manufacturer's Quality Management (QM) plan or as designated for the applicable device class. The manufacturer may eliminate, modify or optimize the tests and inspections herein, however the performance requirements as defined in MIL-PRF-38534 shall be met for the applicable device class. In addition, the modification in the QM plan shall not affect the form, fit, or function of the device for the applicable device class. Constant acceleration, method 2001 of MIL-STD-883, is performed at 1200g's for screening (see 4.2.c) and at 2500g's for group C periodic inspection (see 4.3.3.c).

3.1.1 <u>EMI filter</u>. Product includes an integral differential and common-mode EMI filter designed to meet all applicable requirements in MIL-STD-461 when the power converter is installed in a typical system setup. The product has been tested as part of design characterization. Reference the typical EMI curves and test setup indicated in the vendor's commercial data sheet for additional information.

3.2 <u>Design, construction, and physical dimensions</u>. The design, construction, and physical dimensions shall be as specified in MIL-PRF-38534 and herein.

3.2.1 <u>Case outline(s)</u>. The case outline(s) shall be in accordance with 1.2.4 herein and figure 1.

3.2.2 Terminal connections. The terminal connections shall be as specified on figure 2.

3.3 <u>Electrical performance characteristics</u>. Unless otherwise specified herein, the electrical performance characteristics are as specified in table I and shall apply over the full specified 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 of device(s)</u>. Marking of device(s) shall be in accordance with MIL-PRF-38534. The device shall be marked with the PIN listed in 1.2 herein. In addition, the manufacturer's vendor similar PIN may also be marked.

3.6 <u>Data</u>. In addition to the general performance requirements of MIL-PRF-38534, the manufacturer of the device described herein shall maintain the electrical test data (variables format) from the initial quality conformance inspection group A lot sample, for each device type listed herein. Also, the data should include a summary of all parameters manually tested, and for those which, if any, are guaranteed. This data shall be maintained under document revision level control by the manufacturer and be made available to the preparing activity (DSCC-VA) upon request.

3.7 <u>Certificate of compliance</u>. A certificate of compliance shall be required from a manufacturer in order to supply to this drawing. The certificate of compliance (original copy) submitted to DSCC-VA shall affirm that the manufacturer's product meets the performance requirements of MIL-PRF-38534 and herein.

3.8 <u>Certificate of conformance</u>. A certificate of conformance as required in MIL-PRF-38534 shall be provided with each lot of microcircuits delivered to this drawing.

4. VERIFICATION

4.1 <u>Sampling and inspection</u>. Sampling and inspection procedures shall be in accordance with MIL-PRF-38534 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>. Screening shall be in accordance with MIL-PRF-38534 or by the manufacturer's Quality Management (QM) plan in accordance with appendix B of MIL-PRF-38534. The following additional criteria shall apply:

- a. Burn-in test, method 1015 of MIL-STD-883.
 - (1) Test condition A, B, C, or D. The test circuit shall be maintained by the manufacturer under document revision level control and shall be made available to either DSCC-VA or the acquiring activity upon request. Also, 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.
 - (2) T_A as specified in accordance with table I of method 1015 of MIL-STD-883.
- b. Interim and final electrical test parameters shall be as specified in table II herein, except interim electrical parameter tests prior to burn-in are optional at the discretion of the manufacturer.
- c. Constant acceleration, method 2001 of MIL-STD-883 is performed at 1200g's.

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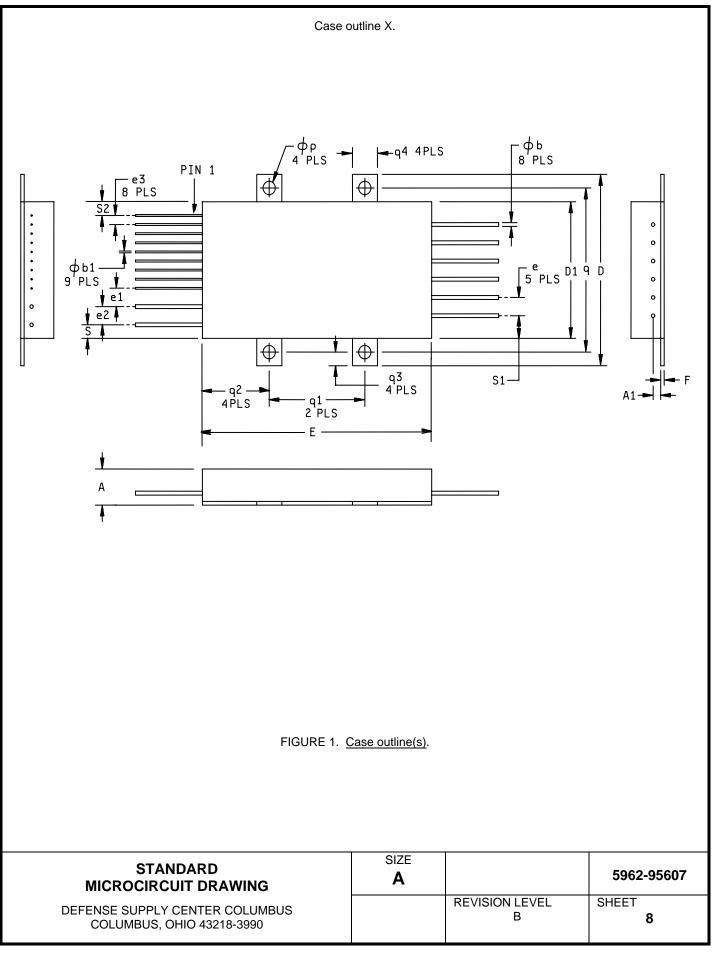
	T	ABLE I. <u>Electrical per</u>	formance	e characteris	stics.			
Test	Symbol	$\begin{array}{c} Conditions \\ -55^{\circ}C \leq T_{C} \leq +90 \\ V_{IN} = 28 \ V \ dc \ \pm 0.5 \\ V_{O} = 5 \ V \ dc \ \pm 2.0\%, \end{array}$	$V dc, C_L = 0,$	Group A subgroups	Device type	Lin	nits Max	Unit
INPUT CHARACTERISTICS		unless otherwise sp	ecified					
Steady state operating input voltage range	V _{IN}	$I_0 = 2 \text{ A to } 20 \text{ A}$		1,2,3	01	18	40	v
Abnormal operating input voltage range (per MIL-STD-704) <u>1</u> /	V _{IN1}	I _O = 2 A to 16 A		1,2,3	01	16	50	V
Input over voltage shutdown	V _{INS}			1,2,3	01	50	55	v
No load input current	I _{IN}	T _C = +25°C		1	01		90	mA
Disabled input current	I _{IN1}			1,2,3	01		2	mA
OUTPUT CHARACTERISTICS	8 <u>2</u> / <u>3</u> /							
Output voltage	Vo			1	01	5.00	5.05	V
		$V_{IN} = 18 \text{ V dc to } 40 \text{ V}$	√ dc	2,3	_	4.925	5.125	-
		$I_0 = 2 A \text{ to } 16 A$ $V_{IN} = 16 V \text{ dc to } 50 V$	√ dc	1,2,3	_	4.925	5.125	-
		$I_0 = 4 \text{ A}, T_c = +125^{\circ}$ $V_{IN} = 28 \text{ V}, \text{TEMP pi}$ grounded		2		4.87	5.18	
Output ripple noise	V _{RIP}	I _O = 20 A, BW = 5 kHz to 2 MH	lz	4,5,6	01		50	mVp-p
Output current (I ₀)	I _{OUT}	$V_{IN} = 18 \text{ V dc to } 40 \text{ V}$	√ dc	1,2,3	01	2	20	А
Output overvoltage protection	OVP	$I_0 = 20$ A, open remo sense connection, $T_c = +25^{\circ}C$	ote	7	01		130	%V _o
Output short circuit protection	I _{SCC}	T _C = +25°C		7	01		35	А
See footnotes at end of table.	1							
STAN MICROCIRCL		WING		ZE A			5962-9	5607
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	TABLE	I. Electrical performance cha	racteristics -	Continued.			
Test	Symbol	$-55^{\circ}C \le T_{C} \le +90^{\circ}C$		Device type	Limits		Unit
		$\label{eq:VIN} \begin{array}{l} V_{\text{IN}} = 28 \ V \ dc \ \pm 0.5 \ V \ dc, \\ V_{\text{O}} = 5 \ V \ dc \ \pm 2.0\%, \ C_{\text{L}} = 0, \\ \text{unless otherwise specified} \end{array}$			Min	Max	
ISOLATION CHARACTERISTI	cs					1	
Isolation	I _{SO}	Input to output or any pin to case at 500 V dc, T _C = +25°C	1	01	100		MΩ
DYNAMIC CHARACTERISTIC	S						-
Output voltage deviation due to step change in load	VT _{LOAD}	$I_{O} = 10 \text{ A to } 20 \text{ A or } 20 \text{ A to}$ 10 A, di/dt = 0.5 A/µs, $T_{C} = +25^{\circ}C$	4	01		800	mV
Response time due to step change in load	T _{load}	$I_O = 10$ A to 20 A or 20 A to 10 A, di/dt = 0.5 A/µs, measured to within 2% of final value, $T_C = +25^{\circ}C$	4	01		195	μS
Soft start turn on time	T _{SS}	I_{O} = 20 A, from INHIBIT high to status high with resistive load, T _C = +25°C	4	01		20	ms
THERMAL CHARACTERISTIC	s					-	
Efficiency	Eff	I _O = 12 A	1,2	01	77		%
			3		75		_
		I _O = 20 A	1,2		77		
See footnotes at end of table.			3		75		
STAN MICROCIRCU	DARD		A BIZE			5962-	95607
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	TABLE	I. <u>Electrical performance chara</u>	acteristics - Co	ontinued.			
Test	Symbol	Conditions	Group A	Device	Limits		Unit
		$\begin{array}{l} -55^\circ C \leq T_C \leq +90^\circ C \\ V_{\text{IN}} = 28 \ \text{V} \ dc \ \pm 0.5 \ \text{V} \ dc, \\ V_O = 5 \ \text{V} \ dc \ \pm 2.0\%, \ C_L = 0, \\ \text{unless otherwise specified} \end{array}$	subgroups	type	Min	Max	
CONTROL CHARACTERISTIC	cs						
Clock frequency	Fs	I _O = 2 A	4,5,6	01	0.85	0.99	MHz
ADJUST (pin 3)	V _{ADJ}	T _C = +25°C	1	01	1.92	2.10	V
STATUS (pin 4) Output high voltage	V _{OHSTAT}	I _{OH} = 400 μΑ Τ _C = +25°C	1	01	2.4		V
STATUS (pin 4) Output low voltage	V _{OLSTAT}	I _{OL} = 1 mA T _C = +25°C	1	01		0.7	V
VAUX (pin 5) Output voltage nominal	Vo	Load current = 20 A, I _{AUX} = 5 mA, T _C = +25°C	1	01	14.3	15.3	V
INHIBIT (pin 6) Input low voltage	V _{IL}	Unit inhibited, $T_c = +25^{\circ}C$	7	01		0.5	V
INHIBIT (pin 6) Input low current	IIL	$V_{IL} = 0.5 \text{ V}, \text{ T}_{C} = +25^{\circ}\text{C}$	1	01		1.2	mA
INHIBIT (pin 6), Input voltage (open circuit)	VI	T _C = +25°C	1	01		15	V
SYNC (pin 7), Input high voltage	V _{IH}	T _C = +25°C	4	01	4.0		V
SYNC (pin 7), Input high current	I _{IH}	$V_{IH} = 0.7 \text{ V}, \text{ T}_{C} = +25^{\circ}\text{C}$	1	01		175	μA
ISHARE (pin 8)		Load current = 20 A, T _C = +25°C	1	01	2.75	2.95	V
TEMP (pin 9)		T _C = +25°C	1	01	3.5	4.5	V
 50 V upper limit rated for operation during emerge Outputs are measured a Unit regulates output vol 	ency condition tremote se	nse points.	ds. The 16 V	dc lower lir	mit rated for	continuous	•

<u>3</u>/ Unit regulates output voltage at no load.

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	Millim	eters	Inches			
Symbol	Min	Max	Min	Max		
А	9.65	10.16	.380	.400		
A1	2.03	2.54	.080	.100		
øb	.96	1.06	.038	.042		
øb1	.40	.50	.016	.020		
D	53.09	53.59	2.090	2.110		
D1	37.85	38.35	1.490	1.510		
е	4.95	5.20	.195	.205		
e1	4.95	5.20	.195	.205		
e2	4.95	5.20	.195	.205		
e3	2.41	2.66	.095	.105		
E	69.47	69.98	2.735	2.755		
F	.94	1.09	.037	.043		
øp	3.65	3.91	.144	.154		
q	45.59	45.84	1.795	1.805		
q1	28.95	29.21	1.140	1.150		
q2	20.07	20.57	.790	.810		
q3	3.68	3.93	.145	.155		
q4	7.36	7.87	.290	.310		
S	3.68	3.93	.145	.155		
S1	6.22	6.47	.245	.255		
S2	3.68	3.93	.145	.155		

Case outline X - Continued.

NOTES:

1. The case outline X was originally designed using the inch-pound units of measurement, in the event of conflict between the metric and inch-pound units, the inch-pound shall take precedence.

2. Minimum pin length is .740 inches (18.80 mm).

All pin-to-sidewall spacing are guaranteed for a minimum of 500 V dc breakdown at standard air pressure.
 The weight of the finished product is 85 grams maximum.

FIGURE 1. <u>Case outline(s)</u> - Continued.

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Device type	01
Case outline	х
Terminal number	Terminal symbol
1	- SENSE
2	+ SENSE
3	ADJUST
4	STATUS
5	VAUX
6	INHIBIT
7	SYNC
8	ISHARE
9	TEMP
10	- V _{IN}
11	+ V _{IN}
12	+ V _{OUT}
13	+ V _{OUT}
14	+ V _{OUT}
15	RETURN
16	RETURN
17	RETURN

FIGURE 2. Terminal connections.

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MIL-PRF-38534 test requirements	Subgroups (in accordance with MIL-PRF-38534, group A test table)
Interim electrical parameters	1
Final electrical parameters	1*, 2, 3, 4, 5, 6, 7
Group A test requirements	1, 2, 3, 4, 5, 6, 7
Group C end-point electrical parameters	1
End-point electrical parameters for radiation hardness assurance (RHA) devices	Not applicable

* PDA applies to subgroup 1.

4.3 <u>Conformance and periodic inspections</u>. Conformance inspection (CI) and periodic inspection (PI) shall be in accordance with MIL-PRF-38534 and as specified herein.

4.3.1 <u>Group A inspection (CI)</u>. Group A inspection shall be in accordance with MIL-PRF-38534 and as follows:

- a. Tests shall be as specified in table II herein.
- b. Subgroups 8, 9, 10, and 11 shall be omitted.
- 4.3.2 Group B inspection (PI). Group B inspection shall be in accordance with MIL-PRF-38534.
- 4.3.3 Group C inspection (PI). Group C inspection shall be in accordance with MIL-PRF-38534 and as follows:
 - a. End-point electrical parameters shall be as specified in table II herein.
 - b. Steady-state life test, method 1005 of MIL-STD-883.
 - (1) Test condition A, B, C, or D. The test circuit shall be maintained by the manufacturer under document revision level control and shall be made available to either DSCC-VA or the acquiring activity upon request. Also, 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.
 - (2) T_A as specified in accordance with table I of method 1005 of MIL-STD-883.
 - (3) Test duration: 1,000 hours, except as permitted by method 1005 of MIL-STD-883.
 - c. Constant acceleration, method 2001 of MIL-STD-883 is performed at 2500g's.
- 4.3.4 Group D inspection (PI). Group D inspection shall be in accordance with MIL-PRF-38534.
- 4.3.5 <u>Radiation Hardness Assurance (RHA) inspection</u>. RHA inspection is not currently applicable to this drawing.

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5. PACKAGING

5.1 <u>Packaging requirements</u>. The requirements for packaging shall be in accordance with MIL-PRF-38534.

6. NOTES

6.1 <u>Intended use</u>. Microcircuits conforming to this drawing are intended for use for Government microcircuit applications (original equipment), design applications, and logistics purposes.

6.2 <u>Replaceability</u>. Microcircuits covered by this drawing will replace the same generic device covered by a contractorprepared specification or drawing.

6.3 <u>Configuration control of SMD's</u>. All proposed changes to existing SMD's will be coordinated as specified in MIL-PRF-38534.

6.4 <u>Record of users</u>. Military and industrial users shall inform Defense Supply Center Columbus (DSCC) when a system application requires configuration control and the applicable SMD. DSCC will maintain a record of users and this list will be used for coordination and distribution of changes to the drawings. Users of drawings covering microelectronic devices (FSC 5962) should contact DSCC-VA, telephone (614) 692-0544.

6.5 <u>Comments</u>. Comments on this drawing should be directed to DSCC-VA, Post Office Box 3990, Columbus, Ohio 43218-3990, or telephone (614) 692-1081.

6.6 <u>Sources of supply</u>. Sources of supply are listed in MIL-HDBK-103 and QML-38534. The vendors listed in MIL-HDBK-103 and QML-38534 have submitted a certificate of compliance (see 3.7 herein) to DSCC-VA and have agreed to this drawing.

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STANDARD MICROCIRCUIT DRAWING BULLETIN

DATE: 06-06-05

Approved sources of supply for SMD 5962-95607 are listed below for immediate acquisition information only and shall be added to MIL-HDBK-103 and QML-38534 during the next revisions. MIL-HDBK-103 and QML-38534 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 revisions of MIL-HDBK-103 and QML-38534. DSCC maintains an online database of all current sources of supply at http://www.dscc.dla.mil/Programs/Smcr/.

Standard	Vendor	Vendor
microcircuit drawing	CAGE	similar
PIN <u>1</u> /	number	PIN <u>2</u> /
5962-9560701HXC	<u>3</u> /	ADDC02805SATV/QMLH

- 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/ <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

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