

REVISIONS																			
LTR	DESCRIPTION										DATE (YR-MO-DA)				APPROVED				
	查询"5962-9307301HXA"供应商 Changes in accordance with NOR 5962-R005-96.										95-10-18				K.A. Cottongim				
B	Figure 1, dimension table, symbol q: inches column, change 1.950 BSC to 1.950 maximum and millimeters column, 49.53 BSC to 49.53 maximum. Table I, delete note 4 from output current test (I_{OUT}) and notes following table I. Renummer remaining notes in sequence. Redrew entire document. -sld										98-02-02				K.A. Cottongim				
C	Changed the max limit for the input ripple current test (I_{RIP}) for subgroup 1 from 40 mA p-p to 45 mA p-p. Table I; Changed in footnote three "At least 100 mA" to "At least 300 mA". -sld										98-07-07				K.A. Cottongim				
D	Table I, $V_{R_{LOAD}}$ conditions column, change $I_{OUT} = 0$ to 4 A (main) to $I_{OUT} = 300$ mA to 4 A (main). Table I, note 3 changed.										99-10-20				Ray Monnin				
REV																			
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REV STATUS OF SHEETS					REV		D	D	D	D	D	D	D	D	D	D	D		
					SHEET		1	2	3	4	5	6	7	8	9	10	11	12	
PMIC N/A					PREPARED BY Steve L. Duncan					DEFENSE SUPPLY CENTER COLUMBUS P. O. BOX 3990 COLUMBUS, OHIO 43216-5000									
STANDARD MICROCIRCUIT DRAWING THIS DRAWING IS AVAILABLE FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE AMSC N/A					CHECKED BY Michael C. Jones														
					APPROVED BY Kendall A. Cottongim														
					DRAWING APPROVAL DATE 95-06-15														
					REVISION LEVEL D					SIZE A		CAGE CODE 67268		5962-93073					
					SHEET		1		OF		12								

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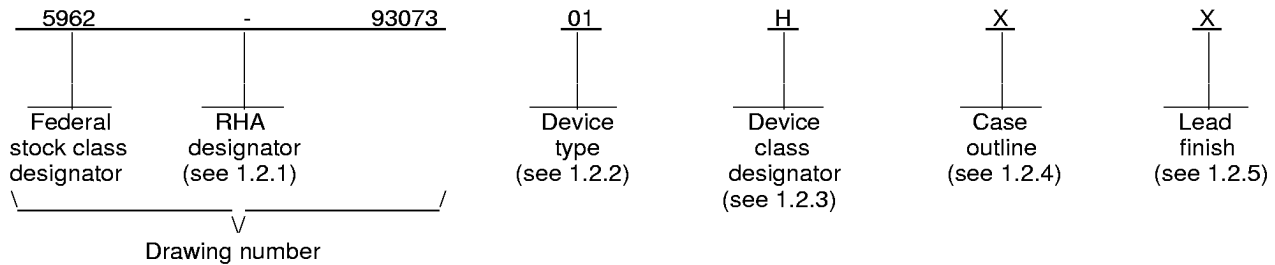
DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

5962-E019-00

1. SCOPE

1.1 Scope. This drawing documents five product assurance classes, class D (lowest reliability), class E, (exceptions), class G (lowest high reliability), class H (high reliability), and class K, (highest reliability) and 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 levels are reflected in the PIN.

1.2 PIN. The PIN shall be as shown in the following example:



1.2.1 Radiation hardness assurance (RHA) designator. Device classes H and K 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 Device type(s). The device type(s) shall identify the circuit function as follows:

Device type	Generic number	Circuit function
01	MTR28512T/883, MTR28512TF/883	DC-DC converter, 30 W, +5 V and ±12 V output

1.2.3 Device class designator. This device class designator shall be a single letter identifying the product assurance level as follows:

Device class	Device performance documentation
D, E, G, H or K	Certification and qualification to MIL-PRF-38534

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

Outline letter	Descriptive designator	Terminals	Package style
X	See figure 1	10	Dual-in-line
Z	See figure 1	10	Flange mount

1.2.5 Lead finish. The lead finish shall be as specified in MIL-PRF-38534.

1.3 Absolute maximum ratings. 1/

Input voltage range (V_{IN})	-0.5 V dc to +50 V dc
Power dissipation (P_D)	14 W
Output power	30.84 W
Lead soldering temperature (10 seconds)	+300° C
Storage temperature range	-65° C to +150° C

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.

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1.4 Recommended operating conditions.

Input voltage range (V_{IN})	+16 V dc to +40 V dc
Output currents:	
+5 V output (main)	+4000 mA
± 12 V output (dual)	± 416 mA
Output power $\frac{1}{2}$	≤ 30 W
Case operating temperature range (T_C)	-55°C to +125°C

2. APPLICABLE DOCUMENTS

2.1 Government specification, standards, and handbooks. The following specification, standards, and handbooks form a part of this drawing to the extent specified herein. Unless otherwise specified, the issues of these documents are those listed in the issue of the Department of Defense Index of Specifications and Standards (DoDISS) and supplement thereto, cited in the solicitation.

SPECIFICATION

DEPARTMENT OF DEFENSE

MIL-PRF-38534 - Hybrid Microcircuits, General Specification for.

STANDARDS

DEPARTMENT OF DEFENSE

MIL-STD-883 - Test Method Standard Microcircuits.
MIL-STD-973 - Configuration Management.
MIL-STD-1835 - Interface Standard For Microcircuit Case Outlines.

HANDBOOKS

DEPARTMENT OF DEFENSE

MIL-HDBK-103 - List of Standard Microcircuit Drawings (SMD's).
MIL-HDBK-780 - Standard Microcircuit Drawings.

(Unless otherwise indicated, copies of the specification, standards, and handbooks are available from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094.)

2.2 Order of precedence. In the event of a conflict between the text of this drawing and the references cited herein, the text of this drawing takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

3. REQUIREMENTS

3.1 Item requirements. The individual item 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 applicable device class. Therefore, the tests and inspections herein may not be performed for applicable device class (see MIL-PRF-38534). Furthermore, the manufacturers may take exceptions or use alternate methods to the tests and inspections herein and not perform them. However, the performance requirements as defined in MIL-PRF-38534 shall be met for the applicable device class. The modification in the QM plan shall not affect the form, fit, or function as described herein.

- 1/ Derate output power linearly above case temperature +125°C to 0 at +135°C.
2/ At least 5 percent of total power should be from the main (+5 volt) output.

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

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3.2.1 Case outlines. 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 Electrical performance characteristics. 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 Electrical test requirements. 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 Marking of device(s). 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 as listed in MIL-HDBK-103 and QML-38534.

3.6 Data. 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 Certificate of compliance. 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 Certificate of conformance. A certificate of conformance as required in MIL-PRF-38534 shall be provided with each lot of microcircuits delivered to this drawing.

4. QUALITY ASSURANCE PROVISIONS

4.1 Sampling and inspection. 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 Screening. Screening shall be in accordance with 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 test method 1015 of MIL-STD-883.

(2) T_C 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.

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TABLE I. Electrical performance characteristics.

Test	Symbol	Conditions -55° C ≤ T _C ≤ +125° C V _{IN} = 28 V dc ±5 percent no external sync, C _L = 0 unless otherwise specified	Group A subgroups	Device type	Limits		Unit
					Min	Max	
Output voltage <u>1</u> /	V _{OUT}	I _{OUT} = +4.0 A dc, (main)	1	01	+4.95	+5.05	V dc
			2, 3		+4.85	+5.15	
		I _{OUT} = ±416 mA dc, (dual)	1		±11.82	±12.18	
			2, 3		±11.58	±12.42	
Output current <u>1</u> / <u>2</u> / <u>3</u> /	I _{OUT}	V _{IN} = 16 V dc, 28 V dc, and 40 V dc (main)	1, 2, 3	100	4000	mA	
		V _{IN} = 16 V dc, 28 V dc, and 40 V dc (dual)		0.0	±416		
Output ripple voltage <u>1</u> /	V _{RIP}	B.W. = 10 kHz to 2 MHz (main)	1		125	mV p-p	
			2, 3		180		
		B.W. = 10 kHz to 2 MHz (dual)	1, 2, 3		±60	mV p-p	
Line regulation <u>1</u> / <u>3</u> /	V _{RLINE}	V _{IN} = 16 V dc to 40 V dc, I _{OUT} = 4.0 A (main)	1, 2, 3		20	mV	
		V _{IN} = 16 V dc to 40 V dc, I _{OUT} = ±416 mA (dual)			±75		
Load regulation <u>1</u> / <u>3</u> /	V _{RLOAD}	I _{OUT} = 300 mA to 4 A (main)	1, 2, 3		50	mV	
		I _{OUT} = 0 to ±416 mA (dual)			±75		
Input current	I _{IN}	I _{OUT} = 0, inhibit (pin 8) = 0	1, 2, 3		6	mA	
		I _{OUT} = 0, inhibit (pin 8) open			110		
Input ripple current	I _{RIP}	I _{OUT} = 4.0 A (main), I _{OUT} = ±416 mA (dual), B.W. = 10 kHz to 10 MHz	1		45	mA p-p	
			2, 3		80		

See footnotes at end of table.

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TABLE I. Electrical performance characteristics - Continued.

Test	Symbol	Conditions -55°C ≤ T _C ≤ +125°C V _{IN} = 28 V dc ±5 percent no external sync, C _L = 0 unless otherwise specified	Group A subgroups	Device type	Limits		Unit
					Min	Max	
Efficiency	Eff	I _{OUT} = 4.0 A (main), I _{OUT} = ±416 mA (dual)	1 2, 3	01	72		%
Isolation	ISO	Input to output or any pin to case (except pins 6 and 7) at 500 V dc, T _C = +25°C	1		100		MΩ
Power dissipation, load fault	P _D	Short circuit all outputs	1, 2, 3			14	W
Switching frequency	F _S	I _{OUT} = 4.0 A (main), I _{OUT} = ±416 mA (dual)	4, 5, 6		525	650	kHz
External sync range <u>4/</u>	F _{SYNC}	I _{OUT} = 4.0 A, TTL level to pin 9	4, 5, 6		500	700	kHz
Output response to step transient load changes <u>5/</u>	V _{TLOAD}	50 percent load to/from 100 percent load (main)	4		-250	+250	mV pk
			5, 6		-400	+400	
		50 percent load to/from 100 percent load (dual)	4		-800	+800	
			5, 6		-1500	+1500	
Recovery time, step transient load changes <u>5/ 6/</u>	T _{TLOAD}	50 percent load to/from 100 percent load (main)	4			100	μs
			5, 6			300	
		50 percent load to/from 100 percent load (dual)	4			4	ms
			5, 6			6	
Output response to transient step line changes <u>7/ 8/</u>	V _{TLINE}	Input step 16 V dc from/to 40 V dc, I _{OUT} = 4.0 A (main), I _{OUT} = ±416 mA (dual)	4, 5, 6			±800	mV pk
Recovery time, transient step line changes <u>6/ 7/ 8/</u>	T _{TLINE}	Input step 16 V dc from/to 40 V dc, I _{OUT} = 4.0 A (main), I _{OUT} = ±416 mA (dual)	4, 5, 6			5	ms

See footnotes at end of table.

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TABLE I. Electrical performance characteristics - Continued.

Test	Symbol	Conditions -55°C ≤ T _C ≤ +125°C V _{IN} = 28 V dc ±5 percent no external sync, C _L = 0 unless otherwise specified	Group A subgroups	Device type	Limits		Unit
					Min	Max	
Turn-on overshoot <u>1/ 8/</u>	V _{tonOS}	I _{OUT} = 4.0 A (main), I _{OUT} = ±416 mA (dual)	4, 5, 6	01		500 1500	mV pk
Turn-on delay <u>1/ 6/ 9/</u>	T _{onD}	I _{OUT} = 4.0 A (main), I _{OUT} = ±416 mA (dual)	4, 5, 6			6	ms
Load fault recovery <u>8/</u>	T _{rLF}	I _{OUT} = 4.0 A (main), I _{OUT} = ±416 mA (dual)	4, 5, 6			6	ms

- 1/ Tested at each output.
2/ Parameter guaranteed by line and load regulation tests.
3/ At least 300 mA should be taken from the +5 volt main output to maintain regulation.
4/ A TTL level waveform (V_{IH} = 4.5 V minimum, V_{IH} = 0.8 V maximum) with a 50 percent ±10 percent duty cycle applied to sync input pin (pin 9) within the sync range frequency shall cause the converter's switching frequency to become synchronous with the frequency applied to the sync input pin (pin 9).
5/ Load step transition time is between 2 and 10 microseconds.
6/ Recovery time and turn-on tests are measured from the initiation of the transient to where V_{OUT} has returned to within ±1 percent of V_{OUT} final value.
7/ Input step transition time is between 2 and 10 microseconds.
8/ Parameter shall be tested as part of device characterization and after design or process changes. Thereafter, parameters shall be guaranteed to the limits specified in table I for all lots not specifically tested.
9/ Turn-on delay time measurement is either for a step application of power at the input or the removal of a ground signal from the inhibit pin (pin 8) while power is applied to the input.

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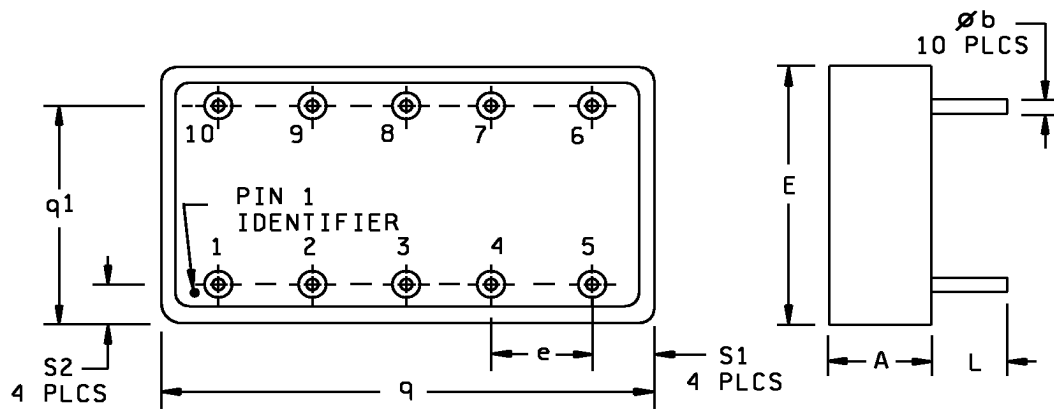
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Symbol	Millimeters		Inches	
	Min	Max	Min	Max
A		10.29		0.405
øb	0.89	1.14	0.035	0.045
e	10.16 BSC		0.400 BSC	
E		34.29		1.350
L	6.10	6.60	0.240	0.260
q		49.53		1.950
q1	29.72 BSC		1.170 BSC	
S1	4.32 BSC		0.170 BSC	
S2	4.32 BSC		0.170 BSC	

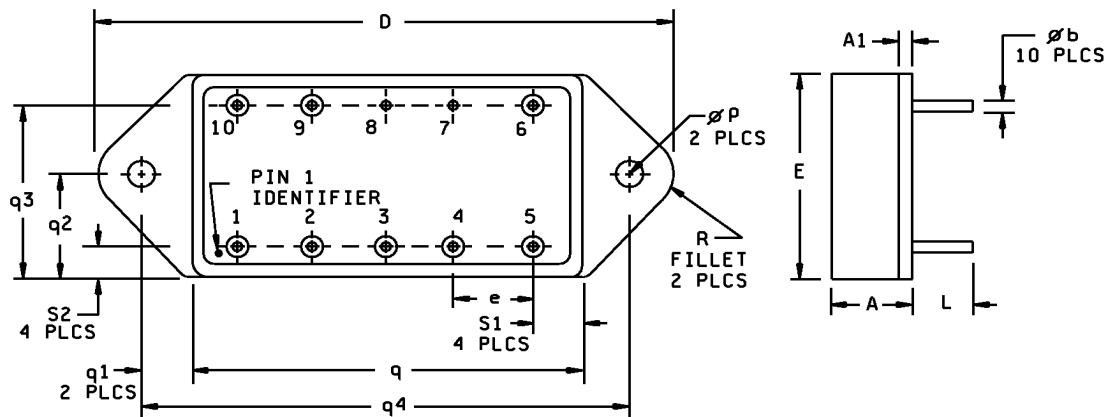
NOTES:

1. The U. S. preferred system of measurement is the metric SI. This case outline was originally designed using inch-pound units of measurement, in the event of conflict between the metric and inch-pound units, the inch-pound shall take precedence.
2. Device weight: 58 grams maximum.
3. Unless otherwise specified, the tolerance for two decimal places is ± 0.01 " (0.3 mm) and for three decimal places is ± 0.005 " (0.13 mm).

FIGURE 1. Case outline(s).

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Symbol	Millimeters		Inches	
	Min	Max	Min	Max
A		10.29		0.405
A1	1.40	1.65	0.055	0.065
øb	0.89	1.14	0.035	0.045
D		69.08		2.720
e	10.16 BSC		0.400 BSC	
E		34.29		1.350
L	6.10	6.60	0.240	0.260
øp	3.99	4.19	0.157	0.165
q		49.53		1.950
q1	5.33 BSC		0.210 BSC	
q2	17.02 BSC		0.670 BSC	
q3	29.72 BSC		1.175 BSC	
q4	59.70	60.20	2.350	2.370
R	4.19	4.44	0.165	0.175
S1	4.32 BSC		0.170 BSC	
S2	4.32 BSC		0.170 BSC	

NOTES:

1. The U. S. preferred system of measurement is the metric SI. This case outline was originally designed using inch-pound units of measurement, in the event of conflict between the metric and inch-pound units, the inch-pound shall take precedence.
2. Device weight: 60 grams maximum.
3. Unless otherwise specified, the tolerance for two decimal places is ± 0.01 " (0.3 mm) and for three decimal places is ± 0.005 " (0.13 mm).

FIGURE 1. Case outline(s) - Continued.

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Device type	01
Case outlines	X and Z
Terminal number	Terminal symbol
1	Positive input
2	+5 volt output
3	Output common
4	-12 volt output
5	+12 volt output
6	Case ground
7	Case ground
8	Inhibit input
9	Sync input
10	Input common

FIGURE 2. Terminal connections.

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TABLE II. Electrical test requirements.[查询"5962-9307301HXA"供应商](#)

MIL-PRF-38534 test requirements	Subgroups (in accordance with MIL-PRF-38534, group A test table)
Interim electrical parameters	
Final electrical parameters	1*, 2, 3, 4, 5, 6
Group A test requirements	1, 2, 3, 4, 5, 6
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 Conformance and periodic inspections. Conformance inspection (CI) and periodic inspection (PI) shall be in accordance with MIL-PRF-38534 and as specified herein.

4.3.1 Group A inspection (CI). 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 7, 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 test method 1005 of MIL-STD-883.
 - (2) T_C 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.

4.3.4 Group D inspection (PI). Group D inspection shall be in accordance with MIL-PRF-38534.

4.3.5 Radiation hardness assurance (RHA) inspection. RHA inspection is currently not applicable to this drawing.

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5. PACKAGING

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

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6. NOTES

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

6.2 Replaceability. Microcircuits covered by this drawing will replace the same generic device covered by a contractor-prepared specification or drawing.

6.3 Configuration control of SMD's. All proposed changes to existing SMD's will be coordinated with the users of record for the individual documents. This coordination will be accomplished in accordance with MIL-STD-973 using DD Form 1692, Engineering Change Proposal.

6.4 Record of users. Military and industrial users shall inform Defense Supply Center Columbus 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 Comments. Comments on this drawing should be directed to DSCC-VA, P. O. Box 3990, Columbus, Ohio 43216-5000, or telephone (614) 692-0512.

6.6 Sources of supply. 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: 99-10-20

Approved sources of supply for SMD 5962-93073 are listed below for immediate acquisition only and shall be added to MIL-HDBK-103 and QML-38534 during the next revision. 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 bulletin is superseded by the next dated revision of MIL-HDBK-103 and QML-38534.

Standard microcircuit drawing PIN <u>1</u> /	Vendor CAGE number	Vendor similar PIN <u>2</u> /
5962-9307301HXA 5962-9307301HXC	50821 50821	MTR28512T/883 MTR28512T/883
5962-9307301HZA 5962-9307301HZC	50821 50821	MTR28512TF/883 MTR28512TF/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.
- 2/ Caution. 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

50821

Vendor name
and address

Interpoint Corporation
10301 Willows Road
Redmond, WA 98073-9705

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