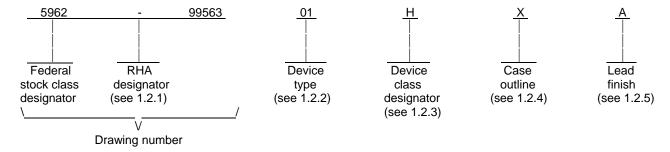
								R	EVISI	ONS										
LTR	DESCRIPTION								DATE (YR-MO-DA)			APPROVED)						
А	Changed efficiency percentages in table I. Subgroup 1, from 86 to 85 percent. Subgroups 2 and 3 changed fron percentgjc.									02-12-18			Raymond Monnin							
В	Upda	ate dra	wing.	-gz						07-0	01-09		Joseph Rodenbeck							
С				ote 1 to table II, under group C end-point ele wing paragraphssld				electri	cals.			10-0)8-12		Charles F. Saffle					
REV SHEET REV SHEET	C 15																			
SHEET	15			RE\	/		C	C	C	C	C	C	C	C	C	C	C	C	C	C
SHEET REV SHEET REV STATU OF SHEETS	15 IS			SHE	EET		1	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	C 13	
SHEET REV SHEET REV STATU OF SHEETS PMIC N/A	15 IS			SHE PRE Ga	ET PARE ry Zah		1					6	7 DLA I	8 LAND	9 AND	10 MAF	11	12 E		C 14
SHEET REV SHEET REV STATU OF SHEETS PMIC N/A STA	15 IS NDAR OCIRC	UIT		SHE PRE Ga	ET PARE ry Zah	ın	1					6	7 DLA I	8 LAND IBUS,	9	10 MAF O 432	11 RITIM 218-3	12 E		
SHEET REV SHEET REV STATU OF SHEETS PMIC N/A STA MICRO DR. THIS D AVA	15 IS S INDAR OCIRC AWING	CUIT G IG IS E		PRE Ga CHE Mid	PARE ry Zah CKED chael (D BY C. Jone D BY	1 es	2		4 MIC	5 CRO	6	DLA IDLUM	8 LANDIBUS,	9 AND, OHIO	10 MAF 0 432 0 cc.dl	RITIM 218-3: a.mil	12 E 990 R, ±1	13	14
SHEET REV SHEET REV STATU OF SHEETS PMIC N/A STA MICRO DR. THIS D AVA FOR U	IS S NDAR OCIRC AWING PRAWING	CUIT G IG IS E ALL NTS OF TH		PRE Ga CHE Mic APP Ker	PARE TY Zah CKEE Chael (ROVE	D BY C. Jone D BY A. Cotte	1 es	2	3	4 MIC	5 CRO	co CIRC	DLA IDLUM	8 LANDIBUS,	9 AND, OHIO	10 MAF 0 432 0 cc.dl	RITIM 218-3: a.mil	12 E 990 R, ±1	13	14
SHEET REV SHEET REV STATU OF SHEETS PMIC N/A STA MICRO DR THIS D AVA FOR U DEPA AND AGEI DEPARTMEI	IS S NDAR OCIRC AWING PRAWING	GUIT G IG IS E ALL ITS OF TH DEFEN		PRE Ga CHE Mic	PARE PARE TY Zah CKEC Chael (ROVE ndall A	D BY C. Jone ED BY A. Cotto G APPR 99-0	es ongim ROVA 16-22	2	3	MIC VO	CROOLT, I	CIRCOUAL	DLA IDLUM	8 LANDIBUS, 0://www	9 AND, OHIO	D MAF D 432 CC.dl	RITIM 218-3: a.mil	12 E 990 R, ±1	13 15 /ERT	14

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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	Generic number	<u>Circuit function</u>
01	MOR2815D	DC/DC converter, 120 W, ±15 V outputs

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
Т	See figure 1	12	Tabbed flange mount, lead formed up
U	See figure 1	12	Flange mount, lead formed down
X	See figure 1	12	Flange mount, short lead
Υ	See figure 1	12	Tabbed flange mount, short lead
Z	See figure 1	12	Tabbed flange mount, lead formed down

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}) <u>2</u> /	-0.5 V dc to +50 V dc
Power dissipation (P _D)	20 W
Lead soldering temperature (10 seconds)	+300°C
Storage temperature range	-65°C to +150°C

1.4 Recommended operating conditions.

Input voltage range (V _{IN})	+16 V dc to +40 V dc
Output power	≤ 120 W
Case operating temperature range (T _C)	-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.

DEPARTMENT OF DEFENSE SPECIFICATION

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

DEPARTMENT OF DEFENSE STANDARDS

MIL-STD-883 - Test Method Standard Microcircuits.

MIL-STD-1835 - Interface Standard for 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 https://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.

An undervoltage lockout circuit shuts the unit off when the input voltage drops to approximately 14.5 volts. Operation of the unit between 14.5 volts and 16 volts is nondestructive, but performance is not guaranteed.

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^{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.

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.
- 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 Case outline(s). The case outline(s) shall be in accordance with 1.2.4 herein and figure 1.
 - 3.2.2 <u>Terminal connections</u>. 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 (DLA Land and Maritime -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 DLA Land and Maritime -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.

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		T	ABLE I. Electrical performance	e characteristic	<u>s</u> .			
Test		Symbol	Conditions $ -55^{\circ}\text{C} \leq \text{T}_{\text{C}} \leq +125^{\circ}\text{C} $ $ \text{V}_{\text{IN}} = 28 \text{ V dc } \pm 0.5 \text{ V dc} $	Group A subgroups	Device type		nits	Unit
			no external sync, C _L = 0 unless otherwise specified			Min	Max	
Output voltage		+V _{OUT}	I _{OUT} = +4 A dc, (main)	1	- 01	+14.85	+15.15	V dc
				2,3	-	+14.70	+15.30	
		-V _{OUT}	I _{OUT} = -4 A dc, (dual)	1	1	-14.77	-15.23	
				2,3	1	-14.62	-15.38	
Output current 1/		I _{OUT}	V_{IN} = 16 V dc, 28 V dc, and 40 V dc, sum of both outputs	1,2,3		0	8	A
V _{OUT} ripple voltage	•	V_{RIP}	I _{OUT} = 4 A, B.W.= 10 kHz to 20 MHz	1			130	mV p-p
				2,3			150	
V _{OUT} line regulation	n	VR _{LINE}	$V_{IN} = 40 \text{ V dc to } 16 \text{ V dc},$ $I_{OUT} = 4 \text{ A dc}, \text{ (main)}$	1,2,3			50	mV
			$V_{IN} = 40 \text{ V dc to } 16 \text{ V dc},$ $I_{OUT} = 4 \text{ A dc, (dual)}$				100	
V _{OUT} load regulation	(+V _{OUT})	VR _{LOAD}	I _{OUT} = 0 to 4 A, (main)	1,2,3			50	mV
	(-V _{OUT})		I _{OUT} = 0 to 4 A, (dual)				200	
Input current		I _{IN}	$I_{OUT} = 0$, inhibit 1 (pin 4) = 0	1,2,3			10	mA
			I _{OUT} = 0, inhibit 2 (pin 12) = 0				70	
			I _{OUT} = 0, inhibit 1 and 2 (pin 4 and 12) open				160	
I _{IN} ripple current		I _{RIP}	I _{OUT} = 4 A, B.W. = 10 kHz to 20 MHz	1			120	mA p-p
				2,3			130	
Efficiency		Eff	I _{OUT} = 4 A	1		85		%
				2,3		83		

See footnotes at end of table.

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	TABLE	I. Electrical performance chara	acteristics - Co	ntinued.			
Test	Symbol	Conditions $-55^{\circ}C \le T_{C} \le +125^{\circ}C$	Group A subgroups	Device type	Lir	mits	Unit
		V_{IN} = 28 V dc ±0.5 V dc no external sync, C_L = 0 unless otherwise specified			Min	Max	
Isolation	ISO	Input to output or any pin to case at 500 V dc, $T_C = +25^{\circ}C$	1	01	100		ΜΩ
Capacitive load <u>2</u> / <u>3</u> /	C _L	No effect on dc performance, T _C = +25°C	4			1000	μF
Power dissipation, load fault	P _D	Short circuit	1,2,3			20	W
Switching frequency	Fs	I _{OUT} = 4 A	4	[480	580	kHz
<u> </u>			5,6		460	600	
External sync range <u>4</u> /	F _{SYNC}	I _{OUT} = 4 A, TTL level to pin 6	4,5,6		525	625	kHz
Step V _{OUT} load transient <u>5</u> /	V_{TLOAD}	50 percent load to/from 100 percent load			-600	+600	mV pk
Recovery time, step V _{OUT} transient <u>3</u> / <u>5</u> / <u>6</u> /	TT _{LOAD}	50 percent load to/from 100 percent load				300	μs
Step V _{OUT} transient lines <u>3</u> / <u>7</u> /	V _{TLINE}	Input step from 40 V dc to 16 V dc, I _{OUT} = 4 A			-750	+750	mV pk
		Input step from 16 V dc to 40 V dc, I _{OUT} = 4 A			-750	+750	
Recovery step V _{OUT} line transient <u>3</u> / <u>6</u> /	TT _{LINE}	Input step from 16 V dc to 40 V dc, I _{OUT} = 4 A			<u></u>	300	μS
		Input step from 40 V dc to 16 V dc, I _{OUT} = 4 A				300	
Start up overshoot 3/	Vton _{OS}	$I_{OUT} = 4 \text{ A}, V_{IN} 0 \text{ to } 28 \text{ V dc}$				50	mV pk
Start up delay 8/	Ton _D	I _{OUT} = 4 A, V _{IN} 0 to 40 V dc				10	ms
Load fault recovery 3/	Tr _{LF}	I _{OUT} = 4 A				10	ms
	<u> </u>	<u>l</u>					

See footnotes at end of table.

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TABLE I. Electrical performance characteristics - Continued.

- 1/ The output power available from either output is limited to 84 watts (i.e. 70 percent of the total output power), while the other maintains a minimum of 15 percent of the total output power used.
- 2/ Capacitive load may be any value from 0 to the maximum limit without compromising dc performance.
 3/ Parameter shall be tested as part of design characterization and after design or process changes; therefore, the parameter shall be guaranteed to limits specified in table I.
- $\underline{4}'$ A TTL level waveform (V_{IH} = 4.5 V minimum, V_{IL} = 0.8 V maximum) with a 50 percent ±10 percent duty cycle applied to the sync input pin (pin 6) 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 6).
- 5/ Load step transition time is 50 microseconds minimum.
- 6/ Recovery time is measured from the initiation of the transient until V_{OUT} has returned to within ±1 percent of its final value.
- 7/ Input step transition time greater than 10 microseconds.
- Start up delay time measurement is either for a step application of power at the input or the removal of a ground signal from the inhibit 1 pin (pin 4) or inhibit 2 pin (pin 12) while power is applied to the input.

STANDARD					
MICROCIRCUIT DRAWING					
DLA LAND AND MARITIME					

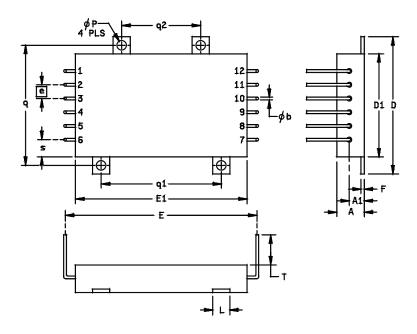
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Α **REVISION LEVEL**

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Case outline T.



Symbol	Millimeters		Inc	hes
	Min	Max	Min	Max
Α		10.16		.400
A1	5.33	5.84	.210	.230
φb	0.89	1.14	.035	.045
D	50.55	51.05	1.990	2.010
D1	37.85	38.35	1.490	1.510
е	5.08	BSC	.200 BSC	
E	69.85	72.39	2.750	2.850
E1	63.25	63.75	2.490	2.510
F	1.14	1.40	.045	.055
L	6.10	6.60	.240	.260
φP	3.43	3.68	.135	.145
q/q1	44.32	44.58	1.745	1.755
q2	29.08	29.34	1.145	1.155
S	6.22	6.48	.245	.255
T	9.91	12.45	.390	.490

- NOTES:

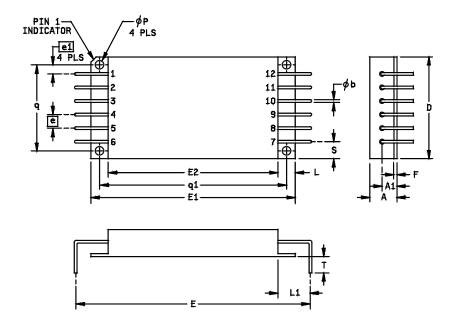
 1. The U.S. government preferred system of measurement is the metric SI. This item was designed using inch-pound units of measurement. In case of problems involving conflicts between the metric and inch-pound units shall rule.
 - units, the inch-pound units shall rule.

 2. Device weight: 110 grams maximum.

FIGURE 1. Case outline(s).

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Case outline U.



Symbol	Millimeters		Inc	hes
	Min	Max	Min	Max
Α		10.16		.400
A1	4.95	6.22	.195	.245
φb	0.89	1.14	.035	.045
D	37.72	38.23	1.485	1.505
е	5.08	BSC	.200	BSC
e1	3.30	BSC	.130	BSC
E	87.38	87.88	3.440	3.460
E1	75.82	76.33	2.985	3.005
E2	63.37	63.63	2.495	2.505
F	1.14	1.40	.045	.055
L	6.10	6.60	.240	.260
L1	11.81	12.32	.465	.485
φP	3.12	3.38	.123	.133
q	31.88	32.13	1.255	1.265
q1	69.98	70.23	2.755	2.765
S	6.22	6.48	.245	.255
Т	5.08	7.62	.200	.300

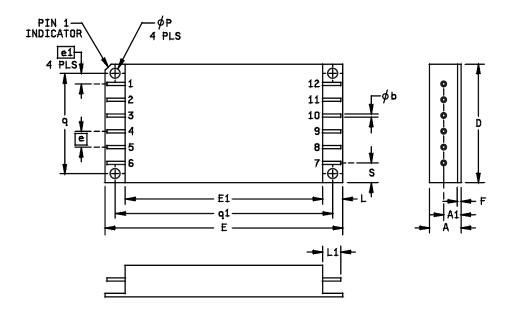
- NOTES:
 1. The U.S. government preferred system of measurement is the metric SI. This item was designed using inchpound units of measurement. In case of problems involving conflicts between the metric and inch-pound units, the inch-pound units shall rule.

 2. Device weight: 110 grams maximum.

FIGURE 1. Case outline(s) - Continued.

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Case outline X.



Symbol	Millin	neters	Incl	hes
	Min	Max	Min	Max
Α		10.16		.400
A1	5.33	5.84	.210	.230
φb	0.89	1.14	.035	.045
D	37.72	38.23	1.485	1.505
е	5.08	BSC	.200	BSC
e1	3.30	BSC	.130	BSC
E	75.82	76.33	2.985	3.005
E1	63.37	63.63	2.495	2.505
F	1.14	1.40	.045	.055
L	6.10	6.60	.240	.260
L1	6.35	8.89	.250	.350
φP	3.12	3.38	.123	.133
q	31.88	32.13	1.255	1.265
q1	69.98	70.23	2.755	2.765
S	6.22	6.48	.245	.255

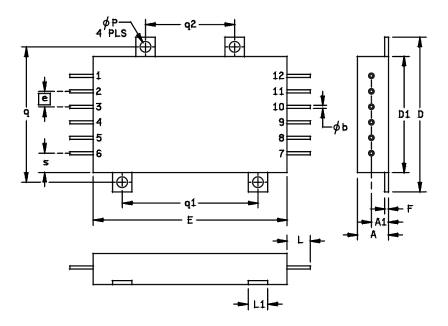
- NOTES:
 1. The U.S. government preferred system of measurement is the metric SI. This item was designed using inchpound units of measurement. In case of problems involving conflicts between the metric and inch-pound units, the inch-pound units shall rule.

 2. Device weight: 110 grams maximum.

FIGURE 1. Case outline(s) - Continued.

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Case outline Y.



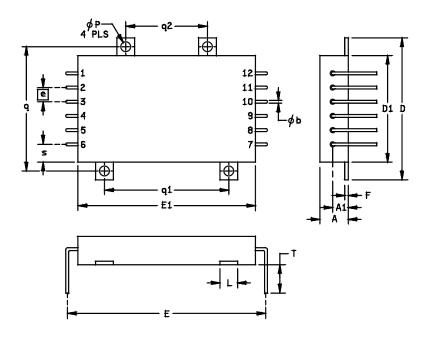
Symbol	Millin	neters	Incl	hes
	Min	Max	Min	Max
Α		10.16		.400
A1	5.33	5.84	.210	.230
φb	0.89	1.14	.035	.045
D	50.55	51.05	1.990	2.010
D1	37.85	38.35	1.490	1.510
е	5.08	BSC	.200 BSC	
E	63.25	63.75	2.490	2.510
F	1.14	1.40	.045	.055
L	6.35	8.89	.250	.350
L1	6.10	6.60	.240	.260
φP	3.43	3.68	.135	.145
q/q1	44.32	44.58	1.745	1.755
q2	29.08	29.34	1.145	1.155
S	6.22	6.48	.245	.255

- NOTES:
 1. The U.S. government preferred system of measurement is the metric SI. This item was designed using inchpound units of measurement. In case of problems involving conflicts between the metric and inch-pound units, the inch-pound units shall rule.
 2. Device weight: 110 grams maximum.

FIGURE 1. Case outline(s) - Continued.

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Case outline Z.



Symbol	Millimeters		Inc	hes
	Min	Max	Min	Max
Α		10.16		.400
A1	5.33	5.84	.210	.230
φb	0.89	1.14	.035	.045
D	50.55	51.05	1.990	2.010
D1	37.85	38.35	1.490	1.510
е	5.08 BSC		.200	BSC
Е	69.85	72.39	2.750	2.850
E1	63.25	63.75	2.490	2.510
F	1.14	1.40	.045	.055
L	6.10	6.60	.240	.260
φP	3.43	3.68	.135	.145
q/q1	44.32	44.58	1.745	1.755
q2	29.08	29.34	1.145	1.155
S	6.22	6.48	.245	.255
Т	7.87	10.41	.310	.410

- NOTES:
 1. The U.S. government preferred system of measurement is the metric SI. This item was designed using inchpound units of measurement. In case of problems involving conflicts between the metric and inch-pound units, the inch-pound units shall rule.
 2. Device weight: 110 grams maximum.

FIGURE 1. Case outline(s) - Continued.

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Device type	01
Case outlines	T, U, X, Y, and Z
Terminal number	Terminal symbol
1 2 3 4 5 6 7 8 9 10 11	Positive input Input common Case Inhibit 1 Sync output Sync input Positive output Output return Negative output Trim Share Inhibit 2

FIGURE 2. <u>Terminal connections</u>.

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TABLE II. Electrical test requirements.

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 1/ parameters	1, 2, 3
End-point electrical parameters for Radiation Hardness Assurance (RHA) devices	Not applicable

- As a minimum, for all Group C testing performed after (10-08-12) manufacturers shall perform subgroups 1, 2, and 3 from the Group A electrical test table (Table C-Xa of MIL-PRF-38534).
- * PDA applies to subgroup 1.
- 4.2 <u>Screening</u>. 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 DLA Land and Maritime -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.
- 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 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.

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- 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 DLA Land and Maritime -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.
- 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 not currently applicable to this drawing.
- 5. PACKAGING
- 5.1 Packaging requirements. 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 contractor-prepared 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 DLA Land and Maritime when a system application requires configuration control and the applicable SMD. DLA Land and Maritime -VA 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.
- 6.5 <u>Comments</u>. Comments on this drawing should be directed to DLA Land and Maritime -VA, 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 DLA Land and Maritime -VA and have agreed to this drawing.

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Approved sources of supply for SMD 5962-99563 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 DLA Land and Maritime -VA. This information bulletin is superseded by the next dated revisions of MIL-HDBK-103 and QML-38534. DLA Land and Maritime -VA 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> /
5962-9956301HTA	50821	MOR2815DW/883
5962-9956301HTC	50821	MOR2815DW/883
5962-9956301HUA	50821	MOR2815DV/883
5962-9956301HUC	50821	MOR2815DV/883
5962-9956301HXA	50821	MOR2815D/883
5962-9956301HXC	50821	MOR2815D/883
5962-9956301HYA	50821	MOR2815DY/883
5962-9956301HYC	50821	MOR2815DY/883
5962-9956301HZA	50821	MOR2815DZ/883
5962-9956301HZC	50821	MOR2815DZ/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 Vendor name and address

50821

Interpoint Corporation 10301 Willows Road Redmond, WA 98052-2529

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