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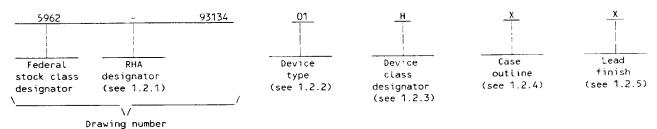
 $\underline{\texttt{DISTRIBUTION}}\ \ \textbf{STATEMENT}\ \ \textbf{A}.\ \ \textbf{Approved}\ \ \texttt{tor}\ \ \textbf{public}\ \ \textbf{release};\ \textbf{distribution}\ \ \textbf{is}\ \ \textbf{unlimited}.$ 

5962-E164-93

## 1. SCOPE

1.1 <u>Scope</u>. This drawing forms a part of a one part - one part number documentation system (see 6.6 herein). This drawing describes device requirements for hybrid microcircuits to be processed in accordance with MIL-H-38534. Two product assurance classes, military high reliability (device class H) and space application (device class K) 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 <u>Radiation hardness assurance (RHA) designator</u>. Device classes H and K RHA marked devices shall meet the MIL-H-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) shall identify the circuit function as follows:

Device type	Generic number	<u>Circuit function</u>
01	ARX5006	Voltage regulator
02	ARX5007 - =	Voltage regulator
03	ARX5008 - 15	Voltage regulator
04	ARX5009 15	Voltage regulator
05	ARX5010 ← 🛎	Voltage regulator
06	ARX5011 - C	Voltage regulator

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

Device class

Device requirements documentation

Н

Certification and qualification to MIL-H-38534

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

Outline letter	Descriptive designator	<u>Terminals</u>	<u>Package</u> style
x	See figure 1	02	Can package

1.2.5 <u>Lead finish</u>. The lead finish shall be as specified in MIL-H-38534 for classes H and K. Finish letter "X" shall not be marked on the microcircuit or its packaging. The "X" designation is for use in specifications when lead finishes A, B, and C are considered acceptable and interchangeable without preference.

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1.3 Absolute maximum ratings. 1/			
Input voltage (V <sub>IN</sub> ) Input voltage (V <sub>IN</sub> ) Operating junction temperature Storage temperature range Maximum thermal resistance, each pass transistor Maximum weight	. +150°C 65°C to +15 . 1.0 °C/W	100 μs	
1.4 Recommended operating conditions.			1
Operating case temperature range			
2. APPLICABLE DOCUMENTS			
2.1 <u>Government specification, standards, and handbook</u> . standards, and handbook of the issue listed in that issue Standards specified in the solicitation, form a part of thi	of the Departme	ent of Defense Index of S	
SPECIFICATION			!
MILITARY			
MIL-H-38534 - Hybrid Microcircuits, General Specif	ication for.		
STANDARDS			
MILITARY			
MIL STD-480 - Configuration Control-Engineering Ch MIL-STD-883 - Test Methods and Procedures for Micr MIL-STD-1835 - Microcircuit Case Outlines.		s and Waivers.	
HANDBOOK			
MILITARY			
MIL-HDBK-780 - Standardized Military Drawings.			
(Copies of the specification, standards, and handbook requ functions should be obtained from the contracting activity	ired by manufactu or as directed b	rers in connection with sp y the contracting activit	ecific acquisition y.)
2.2 Order of precedence. In the event of a conflict betw the text of this drawing shall take precedence.	een the text of t	his drawing and the refere	ences cited herein,
1/ Stresses above the absolute maximum rating may cause maximum levels may degrade performance and affect relia	permanent damage ability.	to the device. Extende	d operation at the
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- REQUIREMENTS
- 3.1 <u>Item requirements</u>. The individual item requirements shall be in accordance with MIL-H-38534 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-H-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 Terminal connections. The terminal connections shall be as specified on figure 2.
  - 3.2.3 Test circuit(s). The test circuits shall be as specified on figure 3 and 4.
- 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 described in table I.
- 3.5 <u>Marking</u>. Marking shall be in accordance with MIL-H-38534. The part shall be marked with the PIN listed in 1.2 herein. In addition, the manufacturer's PIN may also be marked as listed in QML-38534.
- 3.6 Manufacturer eligibility. In addition to the general requirements of MIL-H-38534, the manufacturer of the part described herein shall maintain the electrical test data (variables format) from the initial quality conformance inspection group A lot sample, produced on the certified line, for each device type listed herein. The data should also 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 (DESC-EC) 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 submitted to DESC-EC shall affirm that the manufacturer's product meets the requirements of MIL-H-38534 and the requirements herein.
- 3.8 Certificate of conformance. A certificate of conformance as required in MIL-H-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-H-38534.
  - 4.2 <u>Screening</u>. Screening shall be in accordance with MIL-H-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 DESC-EC 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.
      - (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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Test	Symbol Conditions $-55^{\circ}C \le T_{C} \le +125^{\circ}C$		Group A	Device	Lii	mits	ป <sub>ัการ</sub> ์
		See figure 3 unless otherwise specified	Sabg. Saps		Min	Max	
oad regulation	V <sub>R</sub> Load	$V_{IN} = +17.5 \text{ V},$ $I_{O1} = 0 \text{ A},$ $I_{O2} = +1.0 \text{ A}$	1, 2, 3	1	4.9	5.1	V
oad regulation	V <sub>R</sub> Load	$V_{IN} = -17.5 \text{ V},$ $I_{01} = 0 \text{ A},$ $I_{02} = -1.0 \text{ A}$	1, 2, 3	2	- 5.3	   - 5.1 	V
oad regulation	V <sub>R</sub> Load	$V_{IN} = +17.5 \text{ V},$ $I_{O1} = 0 \text{ A},$ $I_{O2} = +2.5 \text{ A}$	1, 2, 3	3	14.7	15.3	V
oad regulation	V <sub>R</sub> Load	V <sub>IN</sub> = -17.5 V, I <sub>O1</sub> = 0 A, I <sub>O2</sub> = -2.5 A	1, 2, 3	4	-15.3	-14.7	V
Load regulation	V <sub>R</sub> Load	V <sub>IN</sub> = +17.5 V,   I <sub>0</sub> 1 = 0 A,   I <sub>0</sub> 2 = +0.9 A,   I <sub>0</sub> 3 = +1.2 A	1, 2, 3	5	4.9 4.95 4.95	5.1 5.05 5.05	V
Load regulation	V <sub>R</sub> Load	V <sub>IN</sub> = -17.5 V, I <sub>O1</sub> = 0 A, I <sub>O2</sub> = -0.425 A, I <sub>O3</sub> = -0.625 A, I <sub>O4</sub> = -1.0 A	1, 2, 3	6	- 5.3   - 5.25   - 5.25   - 5.3	- 5.1   - 5.15   - 5.15   - 5.1	V
Line regulation	V <sub>R</sub> Line	V <sub>IN1</sub> = +17.5 V, V <sub>IN2</sub> = +25.0 V, I <sub>O</sub> = +1.0 A	1, 2, 3	1,5	4.9	5.1	V
Line regulation	V <sub>R</sub> Line	V <sub>IN1</sub> = -17.5 V, V <sub>IN2</sub> = -25.0 V, I <sub>O</sub> = -1.0 A	1, 2, 3	2, 6	- 5.3	- 5.1	V
Line regulation	V <sub>R</sub> Line	V <sub>IN1</sub> = +17.5 V, V <sub>IN2</sub> = +25.0 V, I <sub>O</sub> = +2.5 A	1, 2, 3	3	14.7	15.3	V
Line regulation	V <sub>R</sub> Line	V <sub>IN1</sub> = -17.5 V,   V <sub>IN2</sub> = -25.0 V,   I <sub>O</sub> = -2.5 A	1, 2, 3	4	-15.3	-14.7	V
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See Figure 3	Test	Symbol	Conditions -55°C ≤ T <sub>C</sub> ≤ +125°C	Group A subgroups	Device type	Limits		Unit
Vin = r22.0 V, results   Vin = r22.0 V, results   Vin = r2.0 V, results   Vi			See fiğure 3			Min	Max	i !
Next	Ripple Rejection	V <sub>RR1</sub>	V <sub>IN</sub> = +22.0 V, I <sub>O</sub> = +1.0 A, e <sub>IN</sub> = .2 to 2.0 V <sub>P-P</sub> , f = 150 kHz	4, 5, 6	1,5	45		dB
VRR1   VIN = -1.0 A,	Ripple Rejection	V <sub>RR2</sub>	V <sub>IN</sub> = +18.5 V,   I <sub>O</sub> = +1.0 A,   e <sub>IN</sub> = .2 to 2.0 V <sub>P-P</sub> ,	4, 5, 6	1, 5	40		dB
Ripple Rejection   V_RR1   V_IN = +22.0 V,	Ripple Rejection	V <sub>RR1</sub>	$I_0 = -1.0 \text{ A},$ $I_{e_{IN}} = .2 \text{ to } 2.0 \text{ V}_{p-p},$	4, 5, 6	2, 6	45		dB
Ripple Rejection  VRR1  VRR2  VIN = +2.5 A, et N = 2 to 2.0 Vp-p, f = 150 kHz  Ripple Rejection  VRR2  VIN = +18.5 V, 4, 5, 6 3 40 dB  Ripple Rejection  VRR1  VIN = -22.0 V, 4, 5, 6 4 45 dB  VRR1  VIN = -22.0 V, 4, 5, 6 4 45 dB  Ripple Rejection  VRR1  VIN = -22.0 V, 4, 5, 6 4 45 dB  VRR2  VIN = -25. A, et N = 2.2 to 2.0 Vp-p, f = 150 kHz  Ripple Rejection  VRR2  VIN = -18.5 V, 4, 5, 6 4 40 dB  VRR2  VIN = -18.5 V, 4, 5, 6 4 40 dB  Coutput Current  Limit protection  VIN = +22.0 V  VIN = +3.5 A	Ripple Rejection	V <sub>RR2</sub>	$I_0^{11} = -1.0 \text{ A},$ $I_{\text{e}_{\text{IN}}} = .2 \text{ to } 2.0 \text{ V}_{\text{p-p}},$	4, 5, 6	2, 6	40		dB
Ripple Rejection $V_{RR2}$ $V_{IN} = +18.5 \text{ V}, \ I_{O}^{I} = +2.5 \text{ A}, \ e_{IN} = .2 \text{ to } 2.0 \text{ V}_{P-P}, \ f = 150 \text{ kHz}$ $V_{RR1}$ $V_{IN} = -22.0 \text{ V}, \ I_{O}^{I} = -2.5 \text{ A}, \ e_{IN} = .2 \text{ to } 2.0 \text{ V}_{P-P}, \ f' = 150 \text{ kHz}$ $V_{RR2}$ $V_{IN} = -2.5 \text{ A}, \ e_{IN} = .2 \text{ to } 2.0 \text{ V}_{P-P}, \ f' = 150 \text{ kHz}$ $V_{IN} = -18.5 \text{ V}, \ I_{O}^{I} = -2.5 \text{ A}, \ e_{IN}^{I} = -2.5 \text{ A}, \ e_{I$	Ripple Rejection	V <sub>RR1</sub>	$I_0 = +2.5 \text{ A},$ $e_{TM} = .2 \text{ to } 2.0 \text{ V}_{B-B},$	4, 5, 6	3	45   		dB
Ripple Rejection $V_{RR1}$ $V_{IN} = -22.0 \text{ V}, \ I_0 = -2.5 \text{ A}, \ e_{IN} = .2 \text{ to } 2.0 \text{ V}_{P-P}, \ f = 150 \text{ kHz}$ Ripple Rejection $V_{RR2}$ $V_{IN} = -18.5 \text{ V}, \ I_0 = -2.5 \text{ A}, \ e_{IN} = .2 \text{ to } 2.0 \text{ V}_{P-P}, \ f = 150 \text{ kHz}$ Output Current Limit protection $I_{OLP}$ $V_{IN} = +22.0 \text{ V}$ $I_{IN} = +22.0 \text{ V}$ $I_{IN} = +22.0 \text{ V}$ $I_{IN} = +3.5 \text{ A}$	Ripple Rejection	V <sub>RR2</sub>		4, 5, 6	3	40   		dB
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Ripple Rejection	V <sub>RR1</sub>	$V_{IN} = -22.0 \text{ V},$ $I_{0} = -2.5 \text{ A},$ $e_{IN} = .2 \text{ to } 2.0 \text{ V}_{P-P},$	4, 5, 6	4	45		dB
Output Current Limit protection  I OLP VIN = +22.0 V 1, 2, 3 1, 5 +1.5 +3.5 A	Ripple Rejection	V <sub>RR2</sub>	$I_0 = -2.5 \text{ A}$	4, 5, 6	4	40		dB
3 +3.4 +7.0		I <sub>OLP</sub>		1, 2, 3	1_1,5	+1.5	+3.5	_  A
$I_{ALD} = -22.0 \text{ V}$ 1, 2, 3   2, 6   -3.5   A	Zimite procession		<del></del>		3	+3.4	+7.0	-
4 -7.0 -3.0		I <sub>OLP</sub>	V <sub>IN</sub> = -22.0 V	1, 2, 3	2, 6	-3.5		_  A

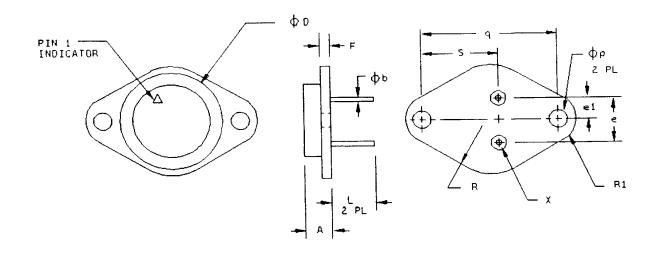
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Test	Symbol	Conditions -55°C ≤ T <sub>C</sub> ≤ +125°C	Group A subgroups	Device type	Limits		Unit
		See figure 3 unless otherwise specified			Min	Max	
Output Short Circuit protection	Ios	   v <sub>IN</sub> = +22.0 V,	1, 2, 3	1, 5	0.1	1.0	_  A
		$I_0^{N}$ = +1.0 A,   Short output (pin 2) for   a minimum of 1 second		3	0.1	1.2	
	Ios	V <sub>IN</sub> = -22.0 V,	1, 2, 3	2, 6	0.1	1.0	_  A
	   	$I_0^{M}$ = -1.0 A,   Short output (pin 2) for   a minimum of 1 second	 	4	0.1	1.2	
Negative output latch-up		V <sub>IN</sub> to device type 03 = +20 V, then apply -20 V to device type 04, See figure 4	   1, 2, 3     	3, 4     tied  together	-15.3	14.7	v
Positive output latch-up		V <sub>IN</sub> to device type 04 = -20 V, then apply +20 V to device type 03, See figure 4	1, 2, 3	3,4 tied together	+14.7	   +15.3 	V

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Symbol	Mill	imeters	Inc	hes
•	Min	Max	Min	Max
Α		8.13		.320
<i>Φ</i> b	0.97	1.09	.038	.043
ΦD		22.23		.875
e	10.67	11.18	.420	. 440
e1	5.21	5.72	. 205	. 225
F	1.52	3.43	.060	.135
L		6.35		. 250
q	29.90	30.40	1.177	1.197
Φp	3.83	4.08	. 151	.161
R	12.57	13.33	. 495	.525
R1	3.32	4.77	.131	.188
S	16.63	17.14	.655	.675
X	3.55	3.63	.140	.143

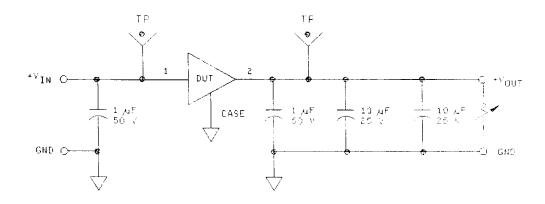
FIGURE 1. Case outline.

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Device type	01-06
Case outline	X
Terminal number	Function
1	V1N
2	VOUT

NOTE: CASE is used for ground.

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



NOTE: Test points shall be located less than one inch from the case of the device.

FIGURE 3. <u>Test circuit</u>.

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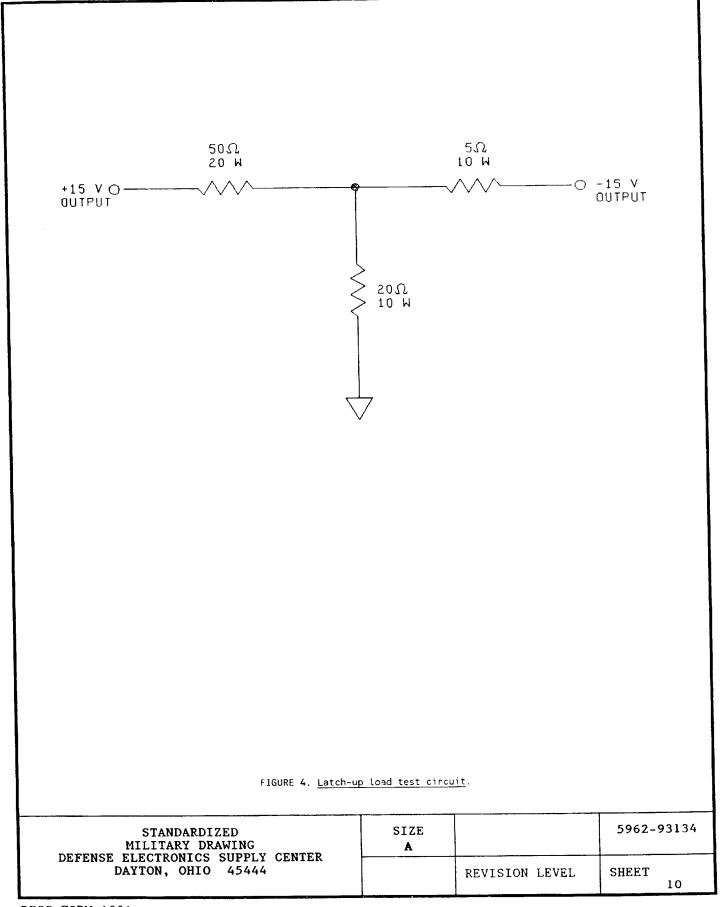


TABLE II. Electrical test requirements.

MIL-H-38534 test requirements	Subgroups (in accordance with MIL-H-38534, group A test table)
Interim electrical parameters	1, 4, 7
Final electrical test parameters	1*, 2, 3, 4, 5, 6
Group A test requirements	1, 2, 3, 4, 5, 6
Group C end-point electrical parameters	1, 2, 3
MIL-STD-883, Group E end-point electrical parameters for RHA devices	Subgroups **  (in accordance with method 5005, group A test table)

- \* PDA applies to subgroup 1.
- \*\* When applicable to this standardized military drawing, the subgroups shall be defined.
- 4.3 Quality conformance inspection. Quality conformance inspection shall be in accordance with MIL-H-38534 and as specified herein.
- 4.3.1 Group A inspection. Group A inspection shall be in accordance with MIL-H-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. Group B inspection shall be in accordance with MIL-H-38534.
- 4.3.3 Group C inspection. Group C inspection shall be in accordance with MIL-H-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 circ sit shall be maintained by the manufacturer under document revision level control and shall be made available to either DESC-EC 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.
    - (2)  $T_{\rm A}$  as specified in accordance with table I of method 1000 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. Group D inspection shall be in accordance with MIL-H-38534.

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- 4.3.5 Group E inspection. Group E inspection is required only for parts intended to be marked as radiation hardness assured (see 3.5 herein). RHA levels for device classes H and K shall be M, D, R, and H. RHA quality conformance inspection sample tests shall be performed at the RHA level specified in the acquisition document.
  - a. RHA tests for device classes H and K for levels M, D, R, and H shall be performed through each level to determine at what levels the devices meet the RHA requirements. These RHA tests shall be performed for initial qualification and after design or process changes which may affect the RHA performance of the device.
  - b. End-point electrical parameters shall be as specified in table II herein.
  - c. Prior to total dose irradiation, each selected sample shall be assembled in its qualified package. It shall pass the specified group A electrical parameters in table I for subgroups specified in table II herein.
  - d. For device classes H and K, the devices shall be subjected to radiation hardness assured tests as specified in MIL-H-38534 for RHA level being tested, and meet the postirradiation end-point electrical parameter limits as defined in table I at  $T_A$  = +25°C ±5 percent, after exposure.
  - e. Prior to and during total dose irradiation testing, the devices shall be biased to establish a worst case condition as specified in the radiation exposure circuit.
  - f. For device classes H and K, subgroups 1 and 2 in table V, method 5005 of MIL-STD-883 shall be tested as appropriate for device construction.
  - g. When specified in the purchase order or contract, a copy of the RHA delta limits shall be supplied.
  - 5. PACKAGING
  - 5.1 Packaging requirements. The requirements for packaging shall be in accordance with MIL-H-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 with the users of record for the individual documents. This coordination will be accomplished in accordance with MIL-STD-481 using DD Form 1693, Engineering Change Proposal (Short Form).
- 6.4 <u>Record of users</u>. Military and industrial users shall inform Defense Electronics Supply Center when a system application requires configuration control and the applicable SMD. DESC 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 DESC-EC, telephone (513) 296-6047.
  - 6.5 Comments. Comments on this drawing should be directed to DESC-EC, Dayton, Ohio 45444, or telephone (513) 296-5373.

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6.6 One part - one part number system. The one part - one part number system described below has been developed to allow for transitions between identical generic devices covered by the four major microcircuit requirements documents (MIL-M-38510, MIL-H-38534, MIL-I-38535, and 1.2.1 of MIL-STD-883) without the necessity for the generation of unique PIN's. The four military requirements documents represent different class levels, and previously when a device manufacturer upgraded military product from one class level to another, the benefits of the upgraded product were unavailable to the Original Equipment Manufacturer (OEM), that was contractually locked into the original unique PIN. By establishing a one part number system covering all four documents, the OEM can acquire to the highest class level available for a given generic device to meet system needs without modifying the original contract parts selection criteria.

1			
Military documentation format	Example PIN under new system	Manufacturing source listing	Document <u>Listing</u>
New MIL-M-38510 Military Detail Specifications (in the SMD format)	5962-XXXXXZZ(B or S)YY	OPL-38510 (Part 1 or 2)	MIL-BUL-103
New MIL-H-38534 Standardized Military Drawings	5962-XXXXXZZ(H or K)YY	QML-38534	MIL-BUL-103
New MIL-I-38535 Standardized Military Drawings	5962-XXXXXZZ(Q or V)YY	QML -38535	MIL-BUL-103
New 1.2.1 of MIL-STD-883 Standardized Military Drawings	5962-XXXXXZZ(M)YY	MIL-BUL-103	MIL-BUL-103

6.7 <u>Sources of supply for device classes H and K</u>. Sources of supply for device classes H and K are listed in QML-38534. The vendors listed in QML-38534 have submitted a certificate of compliance (see 3.7 herein) to DESC-EC and have agreed to this drawing.

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