

REVISIONS

LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
A	Update boilerplate paragraphs to current MIL-PRF-38535 requirements. - ro	10-02-18	C. SAFFLE

THE FIRST SHEET OF THIS DRAWING HAS BEEN REPLACED.

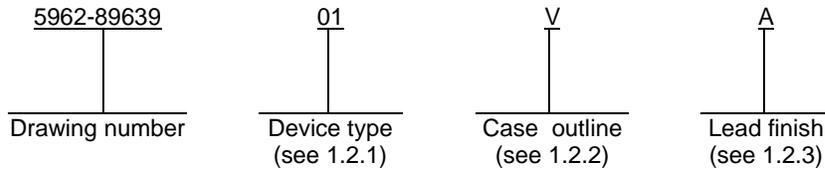
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REV STATUS	REV	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A				
OF SHEETS	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13						

PMIC N/A	PREPARED BY JOSEPH A. KERBY	<b>DEFENSE SUPPLY CENTER COLUMBUS</b> <b>COLUMBUS, OHIO 43218-3990</b> <a href="http://www.dsccl.dla.mil">http://www.dsccl.dla.mil</a>		
<b>STANDARD MICROCIRCUIT DRAWING</b>  THIS DRAWING IS AVAILABLE FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE  AMSC N/A	CHECKED BY CHARLES E. BESORE			
	APPROVED BY MICHAEL A. FRYE	MICROCIRCUIT, LINEAR, 4-CHANNEL, MULTIPLEXER AMPLIFIER, MONOLITHIC SILICON		
	DRAWING APPROVAL DATE 91-02-07			
	REVISION LEVEL A	SIZE A	CAGE CODE <b>67268</b>	<b>5962-89639</b>
		SHEET		1 OF 13

1. SCOPE

1.1 Scope. This drawing describes device requirements for MIL-STD-883 compliant, non-JAN class level B microcircuits in accordance with MIL-PRF-38535, appendix A.

1.2 Part or Identifying Number (PIN). The complete PIN is as shown in the following example:



1.2.1 Device type(s). The device type(s) identify the circuit function as follows:

<u>Device type</u>	<u>Generic number</u>	<u>Circuit function</u>
01	LM604	4-channel multiplexer amplifier

1.2.2 Case outline(s). The case outline(s) are as designated in MIL-STD-1835 and as follows:

<u>Outline letter</u>	<u>Descriptive designator</u>	<u>Terminals</u>	<u>Package style</u>
V	GDIP1-T18 or CDIP2-T18	18	Dual-in-line

1.2.3 Lead finish. The lead finish is as specified in MIL-PRF-38535, appendix A.

1.3 Absolute maximum ratings.

Supply voltage ( $V_S$ ) .....	36 V dc or $\pm 18$ V dc
Differential input voltage .....	$\pm 18$ V dc
Input voltage range .....	$\pm 18$ V dc
Output short circuit to GND .....	Continuous <sup>1/</sup>
Storage temperature range .....	-65°C to +150°C
Lead temperature (soldering, 5 seconds) .....	+300°C
Junction temperature ( $T_J$ ) .....	+150°C
Power dissipation ( $P_D$ ) .....	1.6 W <sup>2/ 3/</sup>
Thermal resistance, junction-to-case ( $\theta_{JC}$ ) .....	See MIL-STD-1835
Thermal resistance, junction-to-ambient ( $\theta_{JA}$ ) .....	75°C/W

1.4 Recommended operating conditions.

Supply voltage ( $V_S$ ) .....	$\pm 15$ V dc
Ambient operating temperature range ( $T_A$ ) .....	-55°C to +125°C

- <sup>1/</sup> Applied to both single and split supply operation. Continuous short circuit operation can result in exceeding the maximum allowed junction temperature.
- <sup>2/</sup> When operating at  $T_A > 25^\circ\text{C}$ , the maximum power dissipation must be derated based on  $\theta_{JA}$ .
- <sup>3/</sup> Must withstand the added  $P_D$  due to short circuit test; e.g.,  $I_{OS}$ .

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## 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 cited in the solicitation or contract.

### DEPARTMENT OF DEFENSE SPECIFICATION

MIL-PRF-38535 - Integrated Circuits, Manufacturing, General Specification for.

### DEPARTMENT OF DEFENSE STANDARDS

MIL-STD-883 - Test Method Standard Microcircuits.  
MIL-STD-1835 - Interface Standard Electronic Component Case Outlines.

### DEPARTMENT OF DEFENSE HANDBOOKS

MIL-HDBK-103 - List of Standard Microcircuit Drawings.  
MIL-HDBK-780 - Standard Microcircuit Drawings.

(Copies of these documents are available online at <https://assist.daps.dla.mil/quicksearch/> or 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 requirements shall be in accordance with MIL-PRF-38535, appendix A for non-JAN class level B devices and as specified herein. Product built to this drawing that is produced by a Qualified Manufacturer Listing (QML) certified and qualified manufacturer or a manufacturer who has been granted transitional certification to MIL-PRF-38535 may be processed as QML product in accordance with the manufacturers approved program plan and qualifying activity approval in accordance with MIL-PRF-38535. This QML flow as documented in the Quality Management (QM) plan may make modifications to the requirements herein. These modifications shall not affect form, fit, or function of the device. These modifications shall not affect the PIN as described herein. A "Q" or "QML" certification mark in accordance with MIL-PRF-38535 is required to identify when the QML flow option is used.

3.2 Design, construction, and physical dimensions. The design, construction, and physical dimensions shall be as specified in MIL-PRF-38535, appendix A and herein.

3.2.1 Case outline. The case outline shall be in accordance with 1.2.2 herein.

3.2.2 Terminal connections. The terminal connections shall be as specified on figure 1.

3.2.3 Block diagram and truth table. The block diagram and truth table shall be as specified on figure 2.

3.2.4 Channel switching waveforms. The channel switching waveforms shall be as specified on figure 3.

3.2.5 Output disable and enable waveforms. The output disable and enable waveforms shall be as specified on figure 4.

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 ambient 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 described in table I.

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TABLE I. Electrical performance characteristics.

Test	Symbol	Conditions -55°C ≤ T <sub>A</sub> ≤ +125°C V <sub>S</sub> = ±15 V  V <sub>OUT</sub> = 0 V, V <sub>CM</sub> = 0 V unless otherwise specified	Group A subgroups	Device type	Limits		Unit
					Min	Max	
Input offset voltage	V <sub>IO</sub>	R <sub>S</sub> = 10 kΩ	1	01	-1	+1	mV
			2,3		-3	+3	
		+V = +5 V, -V = 0 V, V <sub>OUT</sub> = 2 V, R <sub>S</sub> = 10 kΩ	1		-1	+1	
			2,3		-3	+3	
Input offset current	I <sub>IO</sub>		1	01	-10	+10	nA
			2,3		-12	+12	
		+V = +5 V, -V = 0 V, V <sub>OUT</sub> = 2 V	1		-10	+10	
			2,3		-18	+18	
Input bias current	I <sub>IB</sub>		1	01	-50	+50	nA
			2,3		-60	+60	
		+V = +5 V, -V = 0 V, V <sub>OUT</sub> = 2 V	1		-80	+80	
			2,3		-110	+110	
Input common mode voltage range	+V <sub>CM</sub>		1	01	13.5		V
			2,3		13.0		
	-V <sub>CM</sub>		1,2,3			-15	
Positive output voltage swing high	+V <sub>OP</sub>	R <sub>L</sub> = 10 kΩ	1	01	13		V
			2,3		12.5		
		+V = +5 V, -V = 0 V, R <sub>L</sub> = 10 kΩ	1		3.2		
			2,3		3.0		
		R <sub>L</sub> = 600 Ω	1		12.3		
			2,3		10		
		+V = +5 V, -V = 0 V, R <sub>L</sub> = 600 Ω	1		3.0		
			2,3		2.8		

See footnotes at end of table.

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TABLE I. Electrical performance characteristics – Continued.

Test	Symbol	Conditions -55°C ≤ T <sub>A</sub> ≤ +125°C V <sub>S</sub> = ±15 V  V <sub>OUT</sub> = 0 V, V <sub>CM</sub> = 0 V unless otherwise specified	Group A subgroups	Device type	Limits		Unit
					Min	Max	
Negative output voltage swing low	-V <sub>OP</sub>	R <sub>L</sub> = 10 kΩ	1	01		-13.8	V
			2,3			-13.3	
		+V = +5 V, -V = 0 V, R <sub>L</sub> = 10 kΩ	1			0.7	
			2,3			0.8	
		R <sub>L</sub> = 600 Ω	1			-12.2	
			2,3			-11.7	
+V = +5 V, -V = 0 V, R <sub>L</sub> = 600 Ω	1		0.6				
	2,3		0.7				
Large signal voltage gain	A <sub>v</sub>	V <sub>OUT</sub> = 0 to 10 V, R <sub>L</sub> = 2 kΩ	4	01	50		V/mV
		V <sub>OUT</sub> = 0 to -10 V, R <sub>L</sub> = 2 kΩ					
		V <sub>OUT</sub> = 0 to 10 V, R <sub>L</sub> = 600 Ω					
		V <sub>OUT</sub> = 0 to -10 V, R <sub>L</sub> = 600 Ω					
		V <sub>OUT</sub> = 0 to 10 V, R <sub>L</sub> = 2 kΩ	5,6		25		
		V <sub>OUT</sub> = 0 to -10 V, R <sub>L</sub> = 2 kΩ					
		V <sub>OUT</sub> = 0 to 10 V, R <sub>L</sub> = 600 Ω					
		V <sub>OUT</sub> = 0 to -10 V, R <sub>L</sub> = 600 Ω					
Common mode rejection ratio	CMRR	V <sub>CM</sub> = -15 V to +13.5 V	4	01	80	dB	
			5,6		70		
		+V = +5 V, -V = 0 V, V <sub>OUT</sub> = 2 V, V <sub>CM</sub> = 0 V to 3.5 V	4		80		
			5,6		70		

See footnotes at end of table.

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TABLE I. Electrical performance characteristics – Continued.

Test	Symbol	Conditions -55°C ≤ T <sub>A</sub> ≤ +125°C V <sub>S</sub> = ±15 V V <sub>OUT</sub> = 0 V, V <sub>CM</sub> = 0 V unless otherwise specified	Group A subgroups	Device type	Limits		Unit
					Min	Max	
Power supply rejection ratio	PSRR	V <sub>S</sub> = ±5.0 V to ±16.0 V	4	01	80		dB
			5,6		70		
		+V = +4.0 V to +5.0 V, -V = 0 V	4		80		
			5,6		70		
Output short circuit current	I <sub>OS</sub>		1	01	-50	+50	mA
			2,3		-60	+60	
Output leakage current	I <sub>O</sub>	Bi-state output disabled, V <sub>OUT</sub> = 13 V, V <sub>OUT</sub> = 0 V, V <sub>OUT</sub> = -13.5 V	1	01	-10	+10	μA
			2,3		-20	+20	
Supply current	I <sub>S</sub>		1	01		9	mA
			2,3			10	
Digital input threshold <u>1/2/</u> voltage	V <sub>IH</sub>		1	01	1.0	1.8	V
	V <sub>IL</sub>		2,3		0.8	2.0	
Digital input current <u>1/2/</u> high	I <sub>IH</sub>		1	01		±5	μA
			2,3			±10	
Digital input current <u>1/2/</u> low	I <sub>IL</sub>		1	01		±5	μA
			2,3			±10	
Negative slew rate	-SR	R <sub>L</sub> = 2 kΩ, A <sub>V</sub> = 1	4	01	2.0		V/μs
			5,6		1.5		
Positive slew rate	+SR	R <sub>L</sub> = 2 kΩ, A <sub>V</sub> = 1	4	01	2.0		V/μs
			5,6		1.5		

See footnotes at end of table.

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TABLE I. Electrical performance characteristics – Continued.

Test	Symbol	Conditions -55°C ≤ T <sub>A</sub> ≤ +125°C V <sub>S</sub> = ±15 V  V <sub>OUT</sub> = 0 V, V <sub>CM</sub> = 0 V unless otherwise specified	Group A subgroups	Device type	Limits		Unit
					Min	Max	
Gain bandwidth product	GBW	f = 100 kHz	4	01	6		MHz
			5,6		3		
Channel switching time	t <sub>SW1</sub>	Channel 2 to channel 1 Channel 1 to channel 2	9	01		5.5	μs
		Channel 4 to channel 3 Channel 3 to channel 4, see figure 3	10,11			6.5	
Multiplexer amplifier enable time	t <sub>EN1</sub>	See figure 4	9	01		4.0	μs
			10,11			5.0	
Multiplexer amplifier disable time	t <sub>DIS</sub>	See figure 4	9	01		2.0	μs
			10,11			3.0	

1/ Digital input tests are for A, B,  $\overline{EN}$ ,  $\overline{WR}$ , and  $\overline{CS}$  pins.

2/ Input voltage levels are with respect to digital ground (pin 4) which must be at least 4.0 V below +V.

3.5 Marking. Marking shall be in accordance with MIL-PRF-38535, appendix A. The part shall be marked with the PIN listed in 1.2 herein. In addition, the manufacturer's PIN may also be marked. For packages where marking of the entire SMD PIN number is not feasible due to space limitations, the manufacturer has the option of not marking the "5962-" on the device.

3.5.1 Certification/compliance mark. A compliance indicator "C" shall be marked on all non-JAN devices built in compliance to MIL-PRF-38535, appendix A. The compliance indicator "C" shall be replaced with a "Q" or "QML" certification mark in accordance with MIL-PRF-38535 to identify when the QML flow option is used.

3.6 Certificate of compliance. A certificate of compliance shall be required from a manufacturer in order to be listed as an approved source of supply in MIL-HDBK-103 (see 6.6 herein). The certificate of compliance submitted to DSCC-VA prior to listing as an approved source of supply shall affirm that the manufacturer's product meets the requirements of MIL-PRF-38535, appendix A and the requirements herein.

3.7 Certificate of conformance. A certificate of conformance as required in MIL-PRF-38535, appendix A shall be provided with each lot of microcircuits delivered to this drawing.

3.8 Notification of change. Notification of change to DSCC-VA shall be required for any change that affects this drawing.

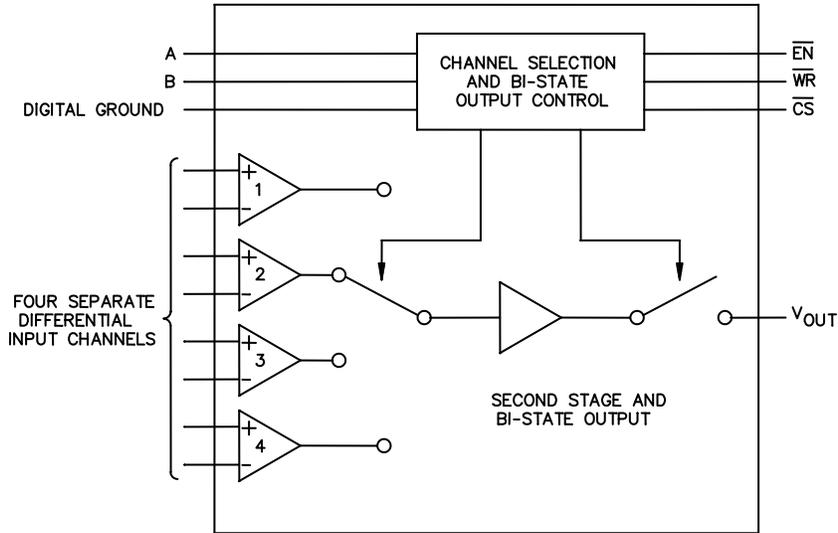
3.9 Verification and review. DSCC, DSCC's agent, and the acquiring activity retain the option to review the manufacturer's facility and applicable required documentation. Offshore documentation shall be made available onshore at the option of the reviewer.

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Device type	01
Case outline	V
Terminal number	Terminal symbol
1	A
2	B
3	OPEN PIN
4	DIGITAL GROUND
5	+V
6	CHANNEL -1
7	CHANNEL +1
8	CHANNEL -2
9	CHANNEL +2
10	CHANNEL +3
11	CHANNEL -3
12	CHANNEL +4
13	CHANNEL -4
14	V <sub>OUT</sub>
15	-V
16	$\overline{CS}$
17	$\overline{WR}$
18	$\overline{EN}$

FIGURE 1. Terminal connections.

<b>STANDARD MICROCIRCUIT DRAWING</b> DEFENSE SUPPLY CENTER COLUMBUS COLUMBUS, OHIO 43218-3990	SIZE <b>A</b>		<b>5962-89639</b>
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Channel selection				
A	B	$\overline{WR}$	$\overline{CS}$	Channel
0	0	0	0	1
0	1	0	0	2
1	0	0	0	3
1	1	0	0	4
X	X	X	1	Unchanged
X	X	1	X	Unchanged

Bi-state output control			
$\overline{EN}$	$\overline{WR}$	$\overline{CS}$	Output state
0	0	0	Enabled
1	0	0	Disabled, high Z
X	X	1	Unchanged
X	1	X	Unchanged

FIGURE 2. Block diagram and truth table.

**STANDARD  
MICROCIRCUIT DRAWING**  
DEFENSE SUPPLY CENTER COLUMBUS  
COLUMBUS, OHIO 43218-3990

SIZE  
**A**

**5962-89639**

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**A**

SHEET  
**9**

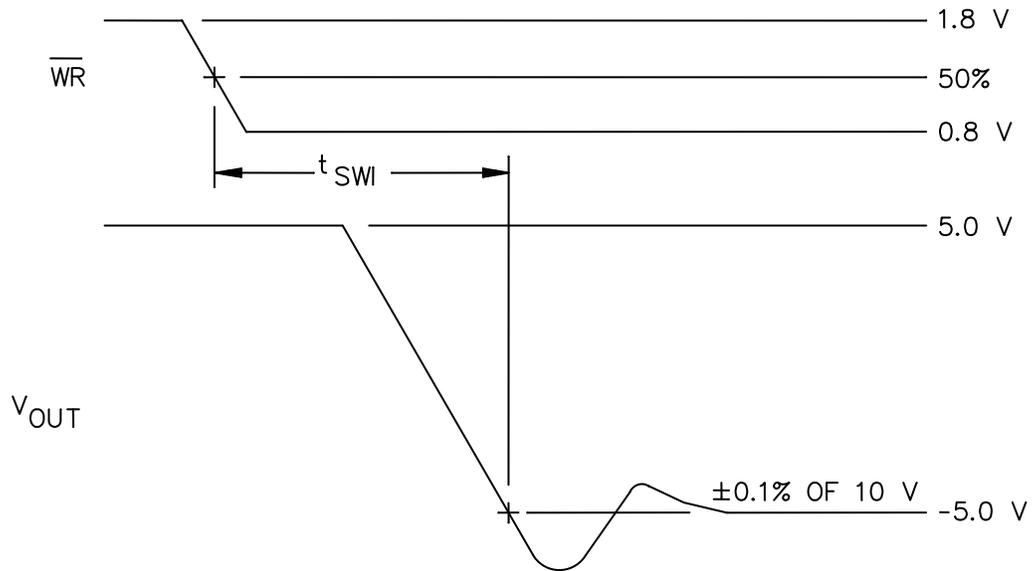


FIGURE 3. Channel switching waveforms.

<b>STANDARD MICROCIRCUIT DRAWING</b> DEFENSE SUPPLY CENTER COLUMBUS COLUMBUS, OHIO 43218-3990	SIZE <b>A</b>		<b>5962-89639</b>
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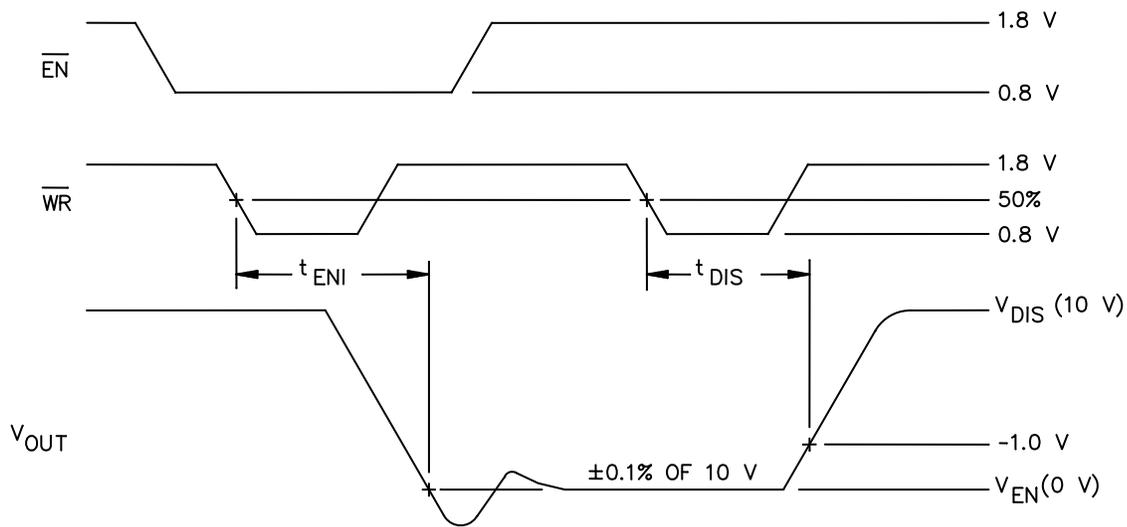


FIGURE 4. Output disable and output enable waveforms.

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4. VERIFICATION

4.1 Sampling and inspection. Sampling and inspection procedures shall be in accordance with MIL-PRF-38535, appendix A.

4.2 Screening. Screening shall be in accordance with method 5004 of MIL-STD-883, and shall be conducted on all devices prior to quality conformance inspection. 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 the preparing or acquiring activity upon request. The test circuit shall specify the inputs, outputs, biases, and power dissipation, as applicable, in accordance with the intent specified in method 1015 of MIL-STD-883.
  - (2)  $T_A = +125^{\circ}\text{C}$ , minimum.
- 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 Quality conformance inspection. Quality conformance inspection shall be in accordance with method 5005 of MIL-STD-883 including groups A, B, C, and D inspections. The following additional criteria shall apply.

4.3.1 Group A inspection.

- a. Tests shall be as specified in table II herein.
- b. Subgroups 7 and 8 in table I, method 5005 of MIL-STD-883 shall be omitted.

4.3.2 Groups C and D inspections.

- a. End-point electrical parameters shall be as specified in table II herein.
- b. Steady-state life test conditions, 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 the preparing or acquiring activity upon request. The test circuit shall specify the inputs, outputs, biases, and power dissipation, as applicable, in accordance with the intent specified in method 1005 of MIL-STD-883.
  - (2)  $T_A = +125^{\circ}\text{C}$ , minimum.
  - (3) Test duration: 1,000 hours, except as permitted by method 1005 of MIL-STD-883.

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TABLE II. Electrical test requirements.

MIL-STD-883 test requirements	Subgroups (in accordance with MIL-STD-883, method 5005, table I)
Interim electrical parameters (method 5004)	1
Final electrical test parameters (method 5004)	1*,2,3,4,5,6,9,10,11
Group A test requirements (method 5005)	1,2,3,4,5,6,9,10,11
Groups C and D end-point electrical parameters (method 5005)	1,2,3

\* PDA applies to subgroup 1.

5. PACKAGING

5.1 Packaging requirements. The requirements for packaging shall be in accordance with MIL-PRF-38535, appendix A.

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 using DD Form 1692, Engineering Change Proposal.

6.4 Record of users. 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 microelectronics devices (FSC 5962) should contact DSCC-VA, telephone (614) 692-0544.

6.5 Comments. Comments on this drawing should be directed to DSCC-VA, Columbus, Ohio 43218-3990, or telephone (614) 692-0547.

6.6 Approved sources of supply. Approved sources of supply are listed in MIL-HDBK-103. The vendors listed in MIL-HDBK-103 have agreed to this drawing and a certificate of compliance (see 3.6 herein) has been submitted to and accepted by DSCC-VA.

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STANDARD MICROCIRCUIT DRAWING BULLETIN

DATE: 10-02-18

Approved sources of supply for SMD 5962-89639 are listed below for immediate acquisition information only and shall be added to MIL-HDBK-103 and QML-38535 during the next revision. MIL-HDBK-103 and QML-38535 will be revised to include the addition or deletion of sources. The vendors listed below have agreed to this drawing and a certificate of compliance has been submitted to and accepted by DSCC-VA. This information bulletin is superseded by the next dated revision of MIL-HDBK-103 and QML-38535. DSCC maintains an online database of all current sources of supply at <http://www.dsccl.dla.mil/Programs/Smcr/>.

Standard microcircuit drawing PIN <u>1/</u>	Vendor CAGE number	Vendor similar PIN <u>2/</u>
5962-8963901VA	<u>3/</u>	LM604AMJ/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.
- 3/ Not available from an approved source of supply. The last known supplier is listed below.

Vendor CAGE  
number

27014

Vendor name  
and address

National Semiconductor  
2900 Semiconductor Drive  
P.O. Box 58090  
Santa Clara, CA 95052-8090

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