

**REVISIONS**

LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
A	Add device type 03, 04, 05, and 06. Add outline letter D. Make changes to 1.2.1, 1.2.2, 1.3, 1.4, table I, figure 1, and throughout.	92-12-09	M.A. FRYE
B	Make changes to the Input offset voltage test for device types 02, 04, and 06 as specified under Table I in accordance with N.O.R. 5962-R207-94.	94-06-03	M.A. FRYE
C	Drawing updated to reflect current requirements. Redrawn. - ro	08-06-10	R. HEBER

THE ORIGINAL FIRST SHEET OF THIS DRAWING HAS BEEN REPLACED.

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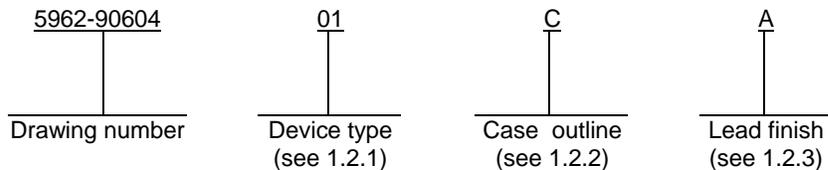
REV STATUS	REV	C	C	C	C	C	C	C	C	C	C	C	C	C						
OF SHEETS	SHEET	1	2	3	4	5	6	7	8	9	10	11								

PMIC N/A	PREPARED BY JOSEPH A. KERBY	<p align="center"><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></p>																		
<p align="center"><b>STANDARD MICROCIRCUIT DRAWING</b></p> <p>THIS DRAWING IS AVAILABLE FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE</p> <p align="center">AMSC N/A</p>	CHECKED BY CHARLES E. BESORE																			
	APPROVED BY MICHAEL A. FRYE	<p align="center">MICROCIRCUIT, LINEAR, QUAD, PRECISION OPERATIONAL AMPLIFIER, MONOLITHIC SILICON</p>																		
	DRAWING APPROVAL DATE 90-05-05																			
	REVISION LEVEL C		<table border="1"> <tr> <td>SIZE A</td> <td>CAGE CODE <b>67268</b></td> <td><b>5962-90604</b></td> </tr> </table>	SIZE A	CAGE CODE <b>67268</b>	<b>5962-90604</b>														
SIZE A	CAGE CODE <b>67268</b>	<b>5962-90604</b>																		
		SHEET	1 OF 11																	

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	TLC274	Precision quad operational amplifier
02	TLC279	Precision quad operational amplifier (see V <sub>IO</sub> test, table I)
03	TLC27M4	Precision quad operational amplifier, medium power
04	TLC27M9	Precision quad operational amplifier, medium power (see V <sub>IO</sub> test, table I)
05	TLC27L4	Precision quad operational amplifier, low power
06	TLC27L9	Precision quad operational amplifier, low power (see V <sub>IO</sub> test, table I)

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>
C	GDIP1-T14 or CDIP2-T14	14	Dual-in-line
D	GDFP1-F14 or CDFP2-F14	14	Flat pack
2	CQCC1-N20	20	Square leadless chip carrier

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

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1.3 Absolute maximum ratings.

Supply voltage ( $V_{DD}$ ) .....	18 V dc
Differential input voltage ( $V_{ID}$ ) .....	$\pm V_{DD}$
Input voltage range ( $V_I$ ) .....	-0.3 V dc to $V_{DD}$
Input current (any input) ( $I_I$ ) .....	$\pm 5$ mA
Output current (each output) ( $I_O$ ) .....	$\pm 30$ mA
Total current into $V_{DD}$ terminal .....	45 mA
Total current out of ground terminal .....	45 mA
Output short circuit duration .....	Unlimited <u>1/</u>
Power dissipation ( $P_D$ ):	
Cases C and 2 .....	1375 mW at $T_A = +25^\circ\text{C}$ <u>2/</u>
Case D .....	996 mW at $T_A = +25^\circ\text{C}$ <u>2/</u>
Storage temperature range .....	-65°C to +150°C
Lead temperature (soldering, 60 seconds) .....	+260°C
Junction temperature ( $T_J$ ) .....	+150°C
Thermal resistance, junction-to-case ( $\theta_{JC}$ ) .....	See MIL-STD-1835

1.4 Recommended operating conditions.

Supply voltage range ( $V_{DD}$ ) .....	4 V dc to 16 V dc
Common mode input voltage:	
$V_{DD} = 5$ V .....	+3.5 V dc maximum
$V_{DD} = 10$ V .....	+8.5 V dc maximum
Unity gain bandwidth: ( $T_A = +25^\circ\text{C}$ )	
$V_{DD} = 5$ V (device types 01 and 02) .....	1.5 MHz
$V_{DD} = 10$ V (device types 01 and 02) .....	2.0 MHz
$V_{DD} = 5$ V (device types 03 and 04) .....	525 kHz
$V_{DD} = 10$ V (device types 03 and 04) .....	635 kHz
$V_{DD} = 5$ V (device types 05 and 06) .....	85 kHz
$V_{DD} = 10$ V (device types 05 and 06) .....	110 kHz
Ambient operating temperature range ( $T_A$ ) .....	-55°C to +125°C

1/ Short circuit may be to ground or either power supply. Rating applied to  $T_A = +25^\circ\text{C}$ .  
2/ For case outlines C and 2, derate at 12 mW/°C above  $T_A = +25^\circ\text{C}$ .  
For case outline D, derate at 8 mW/°C above  $T_A = +25^\circ\text{C}$ .

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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 <http://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 outlines. The case outlines shall be in accordance with 1.2.2 herein.

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

3.3 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.

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.

<b>STANDARD                  MICROCIRCUIT DRAWING</b> DEFENSE SUPPLY CENTER COLUMBUS COLUMBUS, OHIO 43218-3990	SIZE <b>A</b>		<b>5962-90604</b>
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TABLE I. Electrical performance characteristics.

Test	Symbol	Conditions -55°C ≤ T <sub>A</sub> ≤ +125°C unless otherwise specified	V <sub>DD</sub>	Group A subgroups	Device type	Limits <u>1/</u>		Unit
						Min	Max	
Input offset voltage <u>2/ 3/</u>	V <sub>IO</sub>	V <sub>O</sub> = 1.4 V, V <sub>IC</sub> = 0 V, R <sub>S</sub> = 50 Ω	5 V	1	01,03, 05		10	mV
				2,3			12	
			10 V	1		10		
				2,3		12		
			5 V	4	02,04 06	900	μV	
				2,3		3750		
				10 V	4	1200		
					2,3	4300		
Input offset current	I <sub>IO</sub>	V <sub>O</sub> = 2.5 V, V <sub>IC</sub> = 2.5 V	5 V	1	All		0.100	nA
				2		15		
		V <sub>O</sub> = 5 V, V <sub>IC</sub> = 5 V	10 V	1		0.100		
				2		15		
Input bias current	I <sub>IB</sub>	V <sub>O</sub> = 2.5 V, V <sub>IC</sub> = 2.5 V	5 V	1	All		0.150	nA
				2		35		
		V <sub>O</sub> = 5 V, V <sub>IC</sub> = 5 V	10 V	1		0.150		
				2		35		
Common mode <u>4/</u> input voltage range	V <sub>ICR</sub>		5 V	1	All	0 to 4		V
				2,3		0 to 3.5		
			10 V	1		0 to 9		
				2,3		0 to 8.5		

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 unless otherwise specified	V <sub>DD</sub>	Group A subgroups	Device type	Limits <sup>1/</sup>		Unit
						Min	Max	
High level output <sup>3/</sup> voltage	V <sub>OH</sub>	V <sub>ID</sub> = 100 mV	5 V	1	All	3.2		V
				2,3		3		
			10 V	1		8		
				2,3		7.8		
Low level output voltage	V <sub>OL</sub>	V <sub>ID</sub> = -100 mV, I <sub>OL</sub> = 0 mA	5 V	1,2,3	All		50	mV
			10 V				50	
Large signal <sup>4/</sup> differential voltage gain	A <sub>VD</sub>	V <sub>O</sub> = 0.25 V to 2 V	5 V	4	01,02	5		V/mV
				5,6		3.5		
		V <sub>O</sub> = 1 V to 6 V	10 V	4		10		
				5,6		7		
		V <sub>O</sub> = 0.25 V to 2 V	5 V	4	03,04	25		
				5,6		15		
		V <sub>O</sub> = 1 V to 6 V	10 V	4		25		
				5,6		15		
		V <sub>O</sub> = 0.25 V to 2 V	5 V	4	05,06	50		
				5,6		25		
		V <sub>O</sub> = 1 V to 6 V	10 V	4		50		
				5,6		25		
Common mode rejection ratio	CMRR	V <sub>IC</sub> = V <sub>ICR</sub> minimum	5 V	1	All	65		dB
				2,3		60		
			10 V	1		65		
				2,3		60		

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 unless otherwise specified	V <sub>DD</sub>	Group A subgroups	Device type	Limits <u>1</u> /		Unit
						Min	Max	
Power supply rejection ratio	PSRR	V <sub>DD</sub> = 5 V to 10 V, V <sub>O</sub> = 1.4 V	5 V and 10 V	1	01,02	65		dB
				2,3		60		
			5 V and 10 V	1	03,04, 05,06	70		
				2,3		60		
Supply current (four amplifiers)	I <sub>DD</sub>	V <sub>O</sub> = 2.5 V, V <sub>IC</sub> = 2.5 V, no load	5 V	1	01,02		6.4	mA
				2		4.4		
				3		10		
		V <sub>O</sub> = 5 V, V <sub>IC</sub> = 5 V, no load	10 V	1	01,02	8		
				2		5.6		
				3		12		
		V <sub>O</sub> = 2.5 V, V <sub>IC</sub> = 2.5 V, no load	5 V	1	03,04	1120	μA	
				2		720		
				3		1760		
		V <sub>O</sub> = 5 V, V <sub>IC</sub> = 5 V, no load	10 V	1	03,04	1200		
				2		960		
				3		2000		
		V <sub>O</sub> = 2.5 V, V <sub>IC</sub> = 2.5 V, no load	5 V	1	05,06	68		
				2		48		
				3		120		
		V <sub>O</sub> = 5 V, V <sub>IC</sub> = 5 V, no load	10 V	1	05,06	92		
2	60							
3	192							

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 unless otherwise specified	V <sub>DD</sub>	Group A subgroups	Device type	Limits <sup>1/</sup>		Unit
						Min	Max	
Slew rate at unity gain	SR	R <sub>L</sub> = 10 kΩ, C <sub>L</sub> = 100 pF, V <sub>I</sub> PP = 5.5 V, measured at 1.6 V and 4.3 V	10 V	1	01,02	2.8		V/μs
				2		1.68		
				3		3.8		
		R <sub>L</sub> = 100 kΩ, C <sub>L</sub> = 20 pF, V <sub>I</sub> PP = 5.5 V, measured at 1.6 V and 4.3 V	10 V	1	03,04	0.25		
				2		0.15		
				3		0.35		
		R <sub>L</sub> = 1 MΩ, C <sub>L</sub> = 20 pF, V <sub>I</sub> PP = 5.5 V, measured at 1.6 V and 4.3 V	10 V	1	05,06	0.02		
				2		0.01		
				3		0.03		

1/ The limiting terms “min” (minimum) and “max” (maximum) shall be considered to apply to magnitudes only. Negative current shall be defined as conventional current flow out of a device terminal.

2/ The difference between device types 01, 03, 05, and 02, 04, 06 is a lower input offset voltage for device types 02, 04, and 06.

3/ R<sub>L</sub> = 10 kΩ for device types 01 and 02, R<sub>L</sub> = 100 kΩ for device types 03 and 04, and R<sub>L</sub> = 1 MΩ for device types 05 and 06.

4/ This range also applies to each input individually.

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 types	01, 02, 03, 04, 05, and 06	
Case outlines	C and D	2
Terminal number	Terminal symbol	
1	OUTPUT 1	NC
2	-INPUT 1	OUTPUT 1
3	+INPUT 1	-INPUT 1
4	V <sub>DD</sub>	+INPUT 1
5	+INPUT 2	NC
6	-INPUT 2	V <sub>DD</sub>
7	OUTPUT 2	NC
8	OUTPUT 3	+INPUT 2
9	-INPUT 3	-INPUT 2
10	+INPUT 3	OUTPUT 2
11	GND	NC
12	+INPUT 4	OUTPUT 3
13	-INPUT 4	-INPUT 3
14	OUTPUT 4	+INPUT 3
15	---	NC
16	---	GND
17	---	NC
18	---	+INPUT 4
19	---	-INPUT 4
20	---	OUTPUT 4

NC = No connection

FIGURE 1. Terminal connections.

<b>STANDARD MICROCIRCUIT DRAWING</b> DEFENSE SUPPLY CENTER COLUMBUS COLUMBUS, OHIO 43218-3990	SIZE <b>A</b>		<b>5962-90604</b>
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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, 8, 9, 10, and 11 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
Group A test requirements (method 5005)	1, 2, 3, 4, 5, 6
Groups C and D end-point electrical parameters (method 5005)	1

\* 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: 08-06-10

Approved sources of supply for SMD 5962-90604 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.dscclia.mil/Programs/Smcr/>.

Standard microcircuit drawing PIN <u>1/</u>	Vendor CAGE number	Vendor similar PIN <u>2/</u>
5962-9060401CA	<u>3/</u>	TLC274MJB
5962-9060401DA	<u>3/</u>	TLC274MWB
5962-90604012A	<u>3/</u>	TLC274MFKB
5962-9060402CA	<u>3/</u>	TLC279MJB
5962-9060402DA	<u>3/</u>	TLC279MWB
5962-90604022A	<u>3/</u>	TLC279MFKB
5962-9060403CA	<u>3/</u>	TLC27M4MJB
5962-9060403DA	<u>3/</u>	TLC27M4MWB
5962-90604032A	<u>3/</u>	TLC27M4MFKB
5962-9060404CA	<u>3/</u>	TLC27M9MJB
5962-9060404DA	<u>3/</u>	TLC27M9MWB
5962-90604042A	<u>3/</u>	TLC27M9MFKB
5962-9060405CA	<u>3/</u>	TLC27L4MJB
5962-9060405DA	<u>3/</u>	TLC27L4MWB
5962-90604052A	<u>3/</u>	TLC27L4MFKB
5962-9060406CA	<u>3/</u>	TLC27L9MJB
5962-9060406DA	<u>3/</u>	TLC27L9MWB
5962-90604062A	<u>3/</u>	TLC27L9MFKB

- 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.

STANDARD MICROCIRCUIT DRAWING BULLETIN – CONTINUED.

Vendor CAGE  
number

01295

Vendor name  
and address

Texas Instruments, Inc.  
Semiconductor Group  
8505 Forest Lane  
P.O. Box 660199  
Dallas, TX 75243  
Point of contact: U.S. Highway 75 South  
P.O. Box 84, M/S 853  
Sherman, TX 75090-9493

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