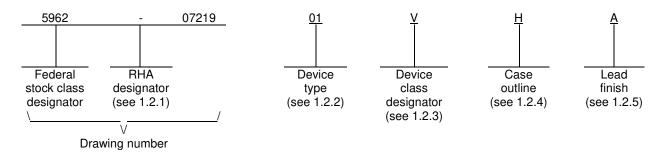
								F	REVISION	SNC										
LTR						DESCF	RIPTIO	N					DATE (YR-MO-DA)					APPF	ROVE	)
А	Upda Delet	te boile e refere	rplate p	paragra devic	aphs to	o currer	nt MIL-I	PRF-38	3535 re	equirements.			13-02-06			C. SAFFLE				
BEV	T 1								T			T				T	T			T
REV																				
SHEET																				
SHEET REV																				
SHEET REV SHEET				REV	,		Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ		
SHEET REV SHEET REV STATUS	3			REV			A 1	A	A 3	A	A 5	A 6	A 7	A	A	A 10	A 11	A 12		
SHEET REV SHEET REV STATUS OF SHEETS PMIC N/A				SHE	ET PAREI	D BY	A 1	A 2	A 3	A 4	A 5	6	7 DLA I	8 _ <b>AND</b>	9 ANE	10 MAF	11	12 <b>E</b>		
SHEET REV SHEET REV STATUS OF SHEETS PMIC N/A STA MICRO	NDAF	CUIT		SHE PREI RIC	EET PAREI K OFF	FICER	1					6	7 DLA I	8 _AND BUS,	9 ANE	10 MAF O 432	11 RITIMI 218-39	12 <b>E</b>		
SHEET REV SHEET REV STATUS OF SHEETS PMIC N/A STA MICRO	NDAF OCIRC	CUIT		SHE PREI RIC CHEC	EET PAREI K OFF	BY BITHAD	1					6	7 DLA I	8 _AND BUS,	9 ANE	10 MAF O 432	11 RITIMI 218-39	12 E 990		
SHEET REV SHEET REV STATUS OF SHEETS PMIC N/A  STA MICRO DRA  THIS DRAWII FOR U	NDAR OCIRC AWING ING IS AY JSE BY A	CUIT G VAILAB	LE	SHE PREI RIC CHEC RAJ	PAREI K OFF CKED JESH I	BY BITHAD	1 DIA			4 MIC	5 CROC	CC http:	7 DLA I DLUM	AND BUS, w.land	9 AND, OHIO	0 MAF O 432 mariti	RITIMI 218-39 me.d	12 E 990 la.mil		
SHEET REV SHEET REV STATUS OF SHEETS PMIC N/A  STA MICRO DRA  THIS DRAWII FOR U	ANDAR OCIRC AWING ING IS A' JSE BY A ARTMEN	CUIT G VAILAB ALL TS OF THE	_	PREI RIC CHEC RAJ	EET  PAREI  K OFF  CKED  JESH I  ROVEI  BERT	BY PITHAD  D BY M. HEE	1 DIA BER	2		MIC OP	5 CROC	CONTINUE OF THE PROPERTY OF TH	7 DLA I DLUM	AND BUS, w.land	9 AND, OHIO	0 MAF O 432 mariti	RITIMI 218-39 me.d	12 E 990 la.mi		
SHEET REV SHEET REV STATUS OF SHEETS PMIC N/A  STA MICRO DRA  THIS DRAWII FOR U DEPA AND AGE DEPARTME	ANDAR OCIRC AWING ING IS A' JSE BY A ARTMEN	CUIT G VAILAB ALL TS DF THE DEFENS	_	PREI RIC CHEC RA. APPI ROI	PAREI CK OFF  CKED JESH I  ROVE BERT	BY PITHAD  D BY M. HEE  APPRO 07-0	DIA BER DVAL E	2		MIC OP SIL	SROC ERA	CIRCUTION	7 DLA I DLUM	AND BUS, W.land	9 AND, OHIO	MAFO 432 mariti	RITIMI 218-39 me.d	12 E 990 la.mil	)	

### 1. SCOPE

- 1.1 <u>Scope</u>. This drawing documents two product assurance class levels consisting of high reliability (device class Q) and space application (device class V). 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 (RHA) levels is reflected in the PIN.
  - 1.2 PIN. The PIN is as shown in the following example:



- 1.2.1 RHA designator. Device classes Q and V RHA marked devices meet the MIL-PRF-38535 specified RHA levels and are 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	THS4304M	Wideband operational amplifier

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

Device class

Device requirements documentation

Q or V

Certification and qualification to MIL-PRF-38535

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
Н	GDFP1-F10 or CDFP2-F10	10	Flat pack

1.2.5 Lead finish. The lead finish is as specified in MIL-PRF-38535 for device classes Q and V.

STANDARD
MICROCIRCUIT DRAWING

SIZE <b>A</b>		5962-07219
	REVISION LEVEL A	SHEET 2

# 1.3 Absolute maximum ratings. 1/

Supply voltage (V <sub>S</sub> )	±V <sub>S</sub> 150 mA
Continuous power dissipation (P <sub>D</sub> ): <u>2</u> /	
T <sub>A</sub> ≤ +25°C	661 mW
T <sub>A</sub> = +85°C	344 mW
T <sub>A</sub> = +125°C	132 mW
Maximum junction temperature (T <sub>J</sub> ) (any condition)	+150°C
Storage temperature range (T <sub>STG</sub> ) Electrostatic discharge (ESD) ratings:	-65°C to +150°C
Human body model (HBM)	
Charge device model (CDM)	
Machine model (MM)	
Thermal resistance, junction-to-case ( $\theta_{JC}$ )	14.7°C/W
Thermal resistance, junction-to-ambient ( $\theta_{JA}$ )	189°C/W

## 1.4 Recommended operating conditions.

Supply voltage (+Vs and -Vs):

Dual supply voltage	±1.35 V to ±2.5 V
Single supply voltage	+2.7 V to +5 V
Input common mode voltage range (V <sub>CM</sub> )	-Vs - 0.2 V to +Vs + 0.2 V
Ambient operating temperature range (T <sub>A</sub> )	-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 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.dla.mil/quicksearch/ or from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094.)

- 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.
- Power rating determined for a maximum junction temperature of +150°C. However, distortion starts to substantially increase above +125°C. Thermal management of the final printed circuit board (PCB) should strive to keep the junction temperature at or below +125°C for best performance and long term reliability.

STANDARD MICROCIRCUIT DRAWING	SIZE <b>A</b>		5962-07219
DLA LAND AND MARITIME COLUMBUS, OHIO 43218-3990		REVISION LEVEL A	SHEET 3

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.

#### 3. REQUIREMENTS

- 3.1 <u>Item requirements</u>. The individual item requirements for device classes Q and V shall be in accordance with MIL-PRF-38535 as specified herein, 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.
- 3.2 <u>Design, construction, and physical dimensions</u>. The design, construction, and physical dimensions shall be as specified in MIL-PRF-38535 and herein for device classes Q and V.
  - 3.2.1 Case outline. The case outline shall be in accordance with 1.2.4 herein.
  - 3.2.2 Terminal connections. The terminal connections shall be as specified on figure 1.
- 3.3 <u>Electrical performance characteristics and postirradiation parameter limits</u>. Unless otherwise specified herein, the electrical performance characteristics and postirradiation parameter limits are as specified in table I and shall apply over the full ambient operating temperature range.
- 3.4 <u>Electrical test requirements</u>. The electrical test requirements shall be the subgroups specified in table IIA. The electrical tests for each subgroup are defined in table I.
- 3.5 <u>Marking</u>. 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. For RHA product using this option, the RHA designator shall still be marked. Marking for device classes Q and V shall be in accordance with MIL-PRF-38535.
- 3.5.1 <u>Certification/compliance mark</u>. The certification mark for device classes Q and V shall be a "QML" or "Q" as required in MIL-PRF-38535.
- 3.6 <u>Certificate of compliance</u>. For device classes Q and V, a certificate of compliance shall be required from a QML-38535 listed manufacturer in order to supply to the requirements of this drawing (see 6.6.1 herein). The certificate of compliance submitted to DLA Land and Maritime-VA prior to listing as an approved source of supply for this drawing shall affirm that the manufacturer's product meets, for device classes Q and V, the requirements of MIL-PRF-38535 and herein.
- 3.7 <u>Certificate of conformance</u>. A certificate of conformance as required for device classes Q and V in MIL-PRF-38535 shall be provided with each lot of microcircuits delivered to this drawing.

STANDARD
MICROCIRCUIT DRAWING

SIZE <b>A</b>		5962-07219
	REVISION LEVEL A	SHEET 4

# TABLE I. <u>Electrical performance characteristics</u>.

Test	Symbol	Conditions $\underline{1}/$ -55°C $\leq$ T <sub>A</sub> $\leq$ +125°C V <sub>S</sub> = $\pm$ 1.5 V	Group A subgroups	Device type	Lin	nits	Unit
		unless otherwise specified			Min	Max	
DC performance section.							
Open loop voltage gain	A <sub>OL</sub>	V <sub>O</sub> = ±0.3 V	1	01	52		dB
			2,3		50		
Input offset voltage	V <sub>IO</sub>	V <sub>O</sub> = 0 V	1	01		4	mV
			2,3	_		6	
Input bias current	I <sub>IB</sub>	V <sub>O</sub> = 0 V	1	01		12	μА
			2,3			20	
Input offset current	I <sub>IO</sub>	V <sub>O</sub> = 0 V	1	01		1	μА
			2,3			1.5	
Input characteristics section.	•						
Common mode input range	V <sub>CM</sub>		1	01	±1.3		V
			2,3		±1		
Common mode rejection	CMRR	$V_O = 0 \text{ V}, V_{CM} = \pm 0.3 \text{ V}$	1	01	62		dB
ratio			2,3		50		
Output characteristics section	ı.						
Output voltage swing		R <sub>L</sub> = 100 Ω	1	01	±0.3		V
			2,3		±0.2		
		$R_L = 1 \text{ k}\Omega$	1	1	±0.4		
			2,3	]	±0.3		
Output current (sourcing)	lout	R <sub>L</sub> = 10 Ω	1	01	25		mA
		_	2,3	1	20		
Output current (sinking)	lout	R <sub>L</sub> = 10 Ω	1	01	27		mA
	-001		2,3	1	21		

See footnote at end of table.

STANDARD
MICROCIRCUIT DRAWING

SIZE <b>A</b>		5962-07219
	REVISION LEVEL A	SHEET 5

TARLEI	Flactrical	norformanco	characteristics -	- Continued

Test	Symbol	Conditions $\underline{1}/$ -55°C $\leq$ T <sub>A</sub> $\leq$ +125°C V <sub>S</sub> = $\pm$ 1.5 V	Group A subgroups	Device type	Lir	mits	Unit
		unless otherwise specified			Min	Max	
Power supply section.							
Maximum operating voltage	Vs		1,2,3	01		±2.75	V
Minimum operating voltage	Vs		1,2,3	01	±1.35		V
Quiescent current	IQ	I <sub>O</sub> = 0 mA	1	01	16.5	17.9	mA
			2,3		15.0	18.6	
Power supply rejection ratio	+PSRR	+V <sub>S</sub> = 1.8 V to 1.2 V,	1	01	60		dB
		-V <sub>S</sub> = -1.5 V	2,3		53		
	-PSRR	-V <sub>S</sub> = -1.2 V to -1.8 V,	1		55		
		+V <sub>S</sub> = 1.5 V	2,3		52		

See footnote at end of table.

STANDARD
MICROCIRCUIT DRAWING

SIZE <b>A</b>		5962-07219
	REVISION LEVEL A	SHEET 6

		Conditions 1/					
Test	Symbol	-55°C ≤ T <sub>A</sub> ≤ +125°C	Group A	Device	Lir	nits	Unit
		V <sub>S</sub> = ±2.5 V	subgroups	type			
		unless otherwise specified			Min	Max	
DC performance section.							
Open loop voltage gain	A <sub>OL</sub>	V <sub>O</sub> = ±0.8 V	1	01	54		dB
			2,3		49		
Input offset voltage	V <sub>IO</sub>	V <sub>O</sub> = 0 V	1	01		4	mV
			2,3			6	
Input bias current	I <sub>IB</sub>	V <sub>O</sub> = 0 V	1	01		12	μА
		2,3			20		
Input offset current I <sub>IO</sub>	I <sub>IO</sub>	V <sub>O</sub> = 0 V	1	01		1	μА
			2,3	1		1.5	
Input characteristics section.	-						•
Common mode input range	V <sub>CM</sub>		1	01	±2.3		V
			2,3		±2		
Common mode rejection	CMRR	V <sub>O</sub> = 0 V, V <sub>CM</sub> = ±1 V	1	01	78		dB
ratio			2,3	1	52		
Output characteristics section	1.	L					
Output voltage swing		R <sub>L</sub> = 100 Ω	1	01	±1.3		V
			2,3	=	±1.15		
		R <sub>L</sub> = 1 kΩ	1	1	±1.4		1
		_	2,3	1	±1.25		1
Output current (sourcing) I <sub>OUT</sub>	lout	R <sub>L</sub> = 10 Ω	1	01	80		mA
	.001	· · <u>- · · · · · · · · · · · · · · · · </u>	2,3	1	70		1
Output current (sinking)	lout	R <sub>L</sub> = 10 Ω	1	01	70		mA
(- 9)	1001	111 - 10 22		1	_		4

See footnote at end of table.

STANDARD MICROCIRCUIT DRAWING	SIZE <b>A</b>		5962-07219
DLA LAND AND MARITIME COLUMBUS, OHIO 43218-3990		REVISION LEVEL A	SHEET 7

2,3

55

# TABLE I. <u>Electrical performance characteristics</u> – Continued.

Test	Symbol	Conditions $\underline{1}/$ -55°C $\leq$ T <sub>A</sub> $\leq$ +125°C V <sub>S</sub> = $\pm$ 2.5 V	Group A subgroups	Device type	Limits		Unit
		unless otherwise specified			Min	Max	
Power supply section.							
Maximum operating voltage	VS		1,2,3	01		±2.75	٧
Minimum operating voltage	VS		1,2,3	01	±1.35		٧
Quiescent current	IQ	I <sub>O</sub> = 0 mA	1	01	17.5	18.9	mA
			2,3		16.0	19.7	
Power supply rejection ratio	+PSRR	+V <sub>S</sub> = 3 V to 2 V,	1	01	72		dB
		-V <sub>S</sub> = -2.5 V	2,3		64		
	-PSRR	-V <sub>S</sub> = -2 V to -3 V,	1		57		
		+V <sub>S</sub> = 2.5 V	2,3		53		

Unless otherwise specified, input common mode voltage ( $V_{CM}$ ) = 0 V and load resistance ( $R_L$ ) = 500  $\Omega$ .

<b>MICROCIRCUIT DRAWING</b>	STANDARD
	MICROCIRCUIT DRAWING

SIZE <b>A</b>		5962-07219
	REVISION LEVEL A	SHEET 8

01
Н
Terminal symbol
NC
NC
-IN
+IN
-V <sub>S</sub>
V <sub>OUT</sub>
V <sub>OUT</sub>
+V <sub>S</sub>
NC
NC

NC = No connection

FIGURE 1. Terminal connections.

STANDARD MICROCIRCUIT DRAWING	SIZE <b>A</b>		5962-07219
DLA LAND AND MARITIME		REVISION LEVEL	SHEET
COLUMBUS, OHIO 43218-3990		A	9

#### 4. VERIFICATION

- 4.1 <u>Sampling and inspection</u>. For device classes Q and V, sampling and inspection procedures shall be in accordance with MIL-PRF-38535 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 <u>Screening</u>. For device classes Q and V, screening shall be in accordance with MIL-PRF-38535, and shall be conducted on all devices prior to qualification and technology conformance inspection.
  - 4.2.1 Additional criteria for device classes Q and V.
    - a. The burn-in test duration, test condition and test temperature, or approved alternatives shall be as specified in the device manufacturer's QM plan in accordance with MIL-PRF-38535. The burn-in test circuit shall be maintained under document revision level control of the device manufacturer's Technology Review Board (TRB) in accordance with MIL-PRF-38535 and shall be made available to the acquiring or preparing 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.
    - b. Interim and final electrical test parameters shall be as specified in table IIA herein.
    - Additional screening for device class V beyond the requirements of device class Q shall be as specified in MIL-PRF-38535, appendix B.
- 4.3 <u>Qualification inspection for device classes Q and V</u>. Qualification inspection for device classes Q and V shall be in accordance with MIL-PRF-38535. Inspections to be performed shall be those specified in MIL-PRF-38535 and herein for groups A, B, C, D, and E inspections (see 4.4.1 through 4.4.4).
- 4.4 <u>Conformance inspection</u>. Technology conformance inspection for classes Q and V shall be in accordance with MIL-PRF-38535 including groups A, B, C, D, and E inspections, and as specified herein.
  - 4.4.1 Group A inspection.
    - a. Tests shall be as specified in table IIA herein.
    - b. Subgroups 4, 5, 6, 7, 8, 9, 10, and 11 in table I, method 5005 of MIL-STD-883 shall be omitted.
  - 4.4.2 Group C inspection. The group C inspection end-point electrical parameters shall be as specified in table IIA herein.
- 4.4.2.1 Additional criteria for device classes Q and V. The steady-state life test duration, test condition and test temperature, or approved alternatives shall be as specified in the device manufacturer's QM plan in accordance with MIL-PRF-38535. The test circuit shall be maintained under document revision level control by the device manufacturer's TRB in accordance with MIL-PRF-38535 and shall be made available to the acquiring or preparing 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.
  - 4.4.3 Group D inspection. The group D inspection end-point electrical parameters shall be as specified in table IIA herein.
- 4.4.4 <u>Group E inspection</u>. Group E inspection is required only for parts intended to be marked as radiation hardness assured (see 3.5 herein).
  - a. End-point electrical parameters shall be as specified in table IIA herein.
  - b. For device classes Q and V, the devices or test vehicle shall be subjected to radiation hardness assured tests as specified in MIL-PRF-38535 for the RHA level being tested. All device classes must meet the postirradiation end-point electrical parameter limits as defined in table I at T<sub>A</sub> = +25°C ±5°C, after exposure, to the subgroups specified in table IIA herein.

STANDARD MICROCIRCUIT DRAWING	SIZE <b>A</b>		5962-07219
DLA LAND AND MARITIME		REVISION LEVEL	SHEET
COLUMBUS, OHIO 43218-3990		A	10

TABLE IIA. Electrical test requirements.

Test requirements	Subgroups	
	(in accordance with	
	MIL-PRF-38535, table III)	
	Device Device	
	class Q	class V
Interim electrical		
parameters (see 4.2)		
Final electrical	1,2,3 <u>1</u> /	1,2,3 <u>1</u> / <u>2</u> /
parameters (see 4.2)		
Group A test	1,2,3	1,2,3
requirements (see 4.4)		
Group C end-point electrical	1	1 <u>2</u> /
parameters (see 4.4)		
Group D end-point electrical	1	1
parameters (see 4.4)		
Group E end-point electrical		
parameters (see 4.4)		

<sup>1/</sup> PDA applies to subgroup 1.

TABLE IIB. <u>Burn-in and life test delta parameters</u>. (T<sub>A</sub> = +25°C).

Parameters	Symbol	Min	Max	Units
Input offset voltage	$V_{IO}$	-0.4	0.4	mV
Input bias current	I <sub>IB</sub>	-2	2	μΑ
Quiescent current	IQ	-0.5	0.5	mA

# 5. PACKAGING

5.1 <u>Packaging requirements</u>. The requirements for packaging shall be in accordance with MIL-PRF-38535 for device classes Q and V.

# 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.
- 6.1.1 Replaceability. Microcircuits covered by this drawing will replace the same generic device covered by a contractor prepared specification or drawing.
- 6.2 <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 using DD Form 1692, Engineering Change Proposal.

STANDARD MICROCIRCUIT DRAWING	SIZE <b>A</b>		5962-07219
DLA LAND AND MARITIME		REVISION LEVEL	SHEET
COLUMBUS, OHIO 43218-3990		A	11

<sup>2/</sup> See table IIB for delta measurement parameters.

- 6.3 Record of users. Military and industrial users should inform DLA Land and Maritime when a system application requires configuration control and which SMD's are applicable to that system. DLA Land and Maritime 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) 692-8108.
- 6.4 <u>Comments</u>. Comments on this drawing should be directed to DLA Land and Maritime-VA, Columbus, Ohio 43218-3990, or telephone (614) 692-0540.
- 6.5 <u>Abbreviations, symbols, and definitions</u>. The abbreviations, symbols, and definitions used herein are defined in MIL-PRF-38535 and MIL-HDBK-1331.
  - 6.6 Sources of supply.
- 6.6.1 <u>Sources of supply for device classes Q and V</u>. Sources of supply for device classes Q and V are listed in MIL-HDBK-103 and QML-38535. The vendors listed in MIL-HDBK-103 and QML-38535 have submitted a certificate of compliance (see 3.6 herein) to DLA Land and Maritime-VA and have agreed to this drawing.

STANDARD	
<b>MICROCIRCUIT DRAWING</b>	

SIZE <b>A</b>		5962-07219
	REVISION LEVEL A	SHEET 12

#### STANDARD MICROCIRCUIT DRAWING BULLETIN

DATE: 13-02-06

Approved sources of supply for SMD 5962-07219 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 DLA Land and Maritime -VA. This information bulletin is superseded by the next dated revision of MIL-HDBK-103 and QML-38535. DLA Land and Maritime maintains an online database of all current sources of supply at <a href="http://www.landandmaritime.dla.mil/Programs/Smcr/">http://www.landandmaritime.dla.mil/Programs/Smcr/</a>.

Standard	Vendor	Vendor
microcircuit drawing	CAGE	similar
PIN <u>1</u> /	number	PIN <u>2</u> /
5962-0721901VHA	01295	THS4304M

- 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 CAGEVendor namenumberand address

01295 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.