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SHEET REV SHEET REV STATU OF SHEETS PMIC N/A STA MICRO DR THIS DRAW FOR	ANDA OCIR AWIN	RD CUIT IG VAILAB		REV SHE Cha	V EET PARECarles E.	D BY Besore	D 1	D	D	D 4	D 5	D 6 EFENS	D 7 SE SUF F	D 8 PPLY 0	D 9 CENT SOX 33 OHIO	D 10 ER CC	11 DLUMI -5000		OLTA	\G
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5962-E530-98

1. SCOPE

This drawing describes device requirements for class H hybrid microcircuits to be processed in accordance with MIL-PRE-38534 and a choice of case outlines and lead finishes are available and are reflected in the Part or Identifying Number (PIN).

1.2 PIN. The PIN shall be as shown in the following example:



1.2.1 <u>Device type(s)</u>. The device type(s) shall identify the circuit function as follows:

Device type	Generic number	Circuit function		
01	0006, 51992, 11105-DESC	1.5 amperes, high voltage driver		
02	8000	3.0 amperes, high voltage, high current driver		

1.2.2 <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>	Package style
Χ	See figure 1	10	Can (with standoff)
Υ	See figure 1	10	Can (without standoff)

- 1.2.3 Lead finish. The lead finish shall be as specified in MIL-PRF-38534.
- 1.3 Absolute maximum ratings. 1/

Peak power supply voltage (V _P), for less than 0.1 s Continuous supply voltage (V _S)	+60 V dc +45 V dc +5.5 V dc 5.0 mA
Device type 01	1.5 A
Device type 02	3.0 A
Continuous output current (IOUTC):	
Device type 01	0.4 A
Device type 02	0.5 A
Thermal resistance, junction-to-case (θ _{JC})	(See MIL-STD-1835)
Power dissipation (PD), $T_A = +25^{\circ}C$:	•
Device type 01	750 mW <u>2</u> /
Device type 02	950 mW <u>2</u> /
Junction temperature (T _J)	+175° C
Storage temperature range	-65° C to +150° C
Lead temperature (soldering, 10 seconds)	+300° C
1.4 Recommended operating conditions.	

Ambient operating temperature range (T_A) -55° C to +125° C

 $[\]overline{\underline{2}}$ / Derate at 210° C/W above $T_A = +25^{\circ}$ C.

STANDARDIZED MILITARY DRAWING	SIZE A		5962-87617
DEFENSE SUPPLY CENTER COLUMBUS COLUMBUS, OHIO 43216-5000		REVISION LEVEL D	SHEET 2

^{1/} Unless otherwise specified, all voltages are referenced to ground.

2. APPLICABLE DOCUMENTS

The following specification: standards, and handbook. The following specification, standards, and handbook form a part of this drawing to the extent specified rerein. Unless otherwise specified, the issues of these documents are those listed in the issue of the Department of Defense Index of Specifications and Standards (DoDISS) and supplement thereto, cited in the solitation.

SPECIFICATION

DEPARTMENT OF DEFENSE

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

STANDARDS

DEPARTMENT OF DEFENSE

MIL-STD-883 - Test Methods and Procedures for Microelectronics.

MIL-STD-973 - Configuration Management. MIL-STD-1835 - Microcircuit Case Outlines.

HANDBOOK

DEPARTMENT OF DEFENSE

MIL-HDBK-780 - Standard Microcircuit Drawings.

(Unless otherwise indicated, copies of the specification, standards, and handbook are available 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.

3. REQUIREMENTS

- 3.1 <u>Item requirements</u>. The individual item performance requirements for device class H 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. Therefore, the tests and inspections herein may not be performed for the applicable device class (see MIL-PRF-38534). Futhermore, the manufacturers may take exceptions or use alternate methods to the tests and inspections herein and not perform them. However, the performance requirements as defined in MIL-PRF-38534 shall be met 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 1.2.2 herein and figure 1.
- 3.2.2 <u>Terminal connections and functional diagram</u>. The terminal connections and functional diagram shall be as specified on figure 2.
 - 3.2.3 Switching time waveform(s). The switching time waveform(s) shall be as specified on figure 3.

STANDARDIZED MILITARY DRAWING	SIZE A		5962-87617
DEFENSE SUPPLY CENTER COLUMBUS		REVISION LEVEL	SHEET
COLUMBUS, OHIO 43216-5000		D	3

- 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.
- 查询"5962-8761701XA"供应商 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 as listed in QML-38534.
- 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 (DSCC-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 DSCC-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. QUALITY ASSURANCE PROVISIONS

- 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.
 - 4.2 Screening. 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 DSCC-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 test 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.

STANDARDIZED
MILITARY DRAWING
DEFENSE SUPPLY CENTER COLUMBUS
COLUMBUS, OHIO 43216-5000

SIZE

A

5962-87617

REVISION LEVEL
D
SHEET
4

	T,	ABLE I. Electrical performance of	<u>characteristics</u>	<u>3</u> .			
查询"5962-8761701XA" 供应商		Conditions -55° C ≤ T _A ≤ +125° C	Group A subgroups	Device type	Limits		Unit
		unless otherwise specified			Min	Max	
Logic "1" input voltage 1/	VIH	10 V ≤ V _{CC} ≤ 45 V	1, 2, 3	01, 02	2.0		V
Logic "0" input voltage 1/	VIL					0.8	
Logic "1" output voltage	VOH	V _{CC} = 10 V, V _{IN} = 2 V, <u>1</u> / I _{OUT} = 150 mA	1, 2, 3	01	8.8		V
		V _{CC} = 28 V, V _{IN} = 2 V, R _L = 82 Ω			26.5		
		V _{CC} = 28 V, V _{IN} = 2 V, R _L = 39 Ω	1, 2, 3	02	26.5		
		V _{CC} = 45 V, V _{IN} = 2 V, <u>1</u> / I _{OUT} = 1.6 A			43.0		
Logic "0" output voltage	VOL	V _{CC} = 45 V, V _{IN} = 0.8 V,	1, 2, 3	01		10	. mV
		R _L = 100 Ω		02		100	
Logic "1" input current 1/	۱н	V _{CC} = 45 V, V _{IN} = 2.4 V	1, 2, 3	01, 02		5.0	μΑ
		V _{CC} = 45 V, V _{IN} = 5.5 V				100	
Logic "0" input current 1/	IIL	V _{CC} = 45 V, V _{IN} = 0.4 V	1, 2, 3	01, 02	-1.0		mA
Input breakdown voltage 1/	B _{VIN}		1, 2, 3	01, 02	5.5		V
"Off" power supply current	ICC(off)	V _{CC} = 45 V, V _{IN} = 0.8 V	1, 2, 3	01		2.0	mA
		V _{CC} = 45 V, V _{IN} = 0 V		02		2.0	

STANDARDIZED MILITARY DRAWING	SIZE A		5962-87617
DEFENSE SUPPLY CENTER COLUMBUS		REVISION LEVEL	SHEET
COLUMBUS, OHIO 43216-5000		D	5

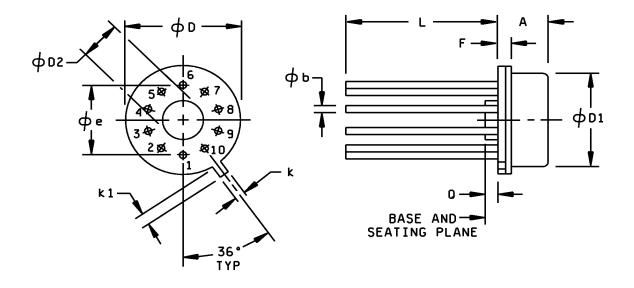
	TABLE	I. Electrical performance chara	<u>cteristics</u> - Cor	ntinued.			
查询"5962-8761701XA	(場)	Conditions -55° C ≤ T _A ≤ +125° C	Group A subgroups	Device type			Unit
		unless otherwise specified			Min	Max	
"On" power supply current	ICC(on)	V _{CC} = 45 V, V _{IN} = 2 V, I _{OUT} = 0 mA	1, 2, 3	01, 02		8.0	mA
Rise time 2/	t _r	V_{CC} = 28 V, V_{IN} = 5 V, R_L = 82 Ω , see figure 3	9, 10, 11	01		300	ns
		V_{CC} = 28 V, V_{IN} = 5 V, R_L = 39 Ω , see figure 3		02		500	
Fall time 2/	tf	V_{CC} = 28 V, V_{IN} = 5 V, R_L = 82 Ω , see figure 3	9, 10, 11	01		1.7	μs
		V_{CC} = 28 V, V_{IN} = 5 V, R_L = 39 Ω , see figure 3	9, 11	02		4.0 6.0	
Turn on time 2/	ton	V_{CC} = 28 V, V_{IN} = 5 V, R_L = 82 Ω , see figure 3	9, 10, 11	01		1.0	μs
		V_{CC} = 28 V, V_{IN} = 5 V, R_L = 39 Ω , see figure 3		02		1.0	
Turn off time 2/	toff	V_{CC} = 28 V, V_{IN} = 5 V, R_L = 82 Ω , see figure 3	9, 10, 11	01		8.0	μs
		V _{CC} = 28 V, V _{IN} = 5 V,	9, 11	02		10	
		$R_L = 39 \Omega$, see figure 3	10			14	

10 | 10 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/

STANDARDIZED MILITARY DRAWING	SIZE A		5962-87617
DEFENSE SUPPLY CENTER COLUMBUS COLUMBUS, OHIO 43216-5000		REVISION LEVEL D	SHEET 6

^{2/} Subgroups 10 and 11 shall be tested as part of device initial characterization and after design and process changes. Parameter shall be guaranteed to the limits specified in table I for all lots not specifically tested.

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Symbol	Millin	neters	Inches		
-					
	Min	Max	Min	Max	
Α	3.94	4.70	0.155	0.185	
øb	0.38	0.48	0.015	0.019	
øD	8.51	9.40	0.335	0.370	
øD1	7.75	8.51	0.305	0.335	
øD2	3.05	4.06	0.120	0.160	
øe	5.84	BSC	0.230	BSC	
F		1.02		0.040	
k	0.66	0.86	0.026	0.034	
k1	0.74	1.14	0.029	0.045	
L	12.70		0.500		
0	1 27			0.050	

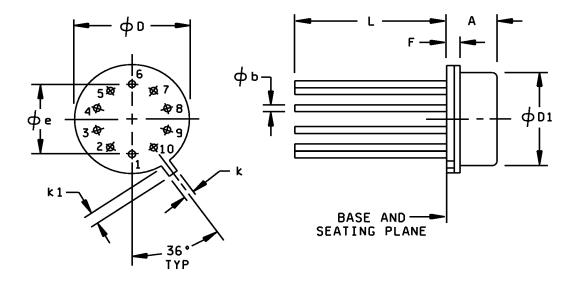
NOTES:

- 1. The U.S. 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, the inch-pound units shall rule
- 2. Pin numbers shown for reference only.

FIGURE 1. Case outline(s).

STANDARDIZED MILITARY DRAWING	SIZE A		5962-87617
DEFENSE SUPPLY CENTER COLUMBUS COLUMBUS, OHIO 43216-5000		REVISION LEVEL D	SHEET 7

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Symbol	Millimeters		Ind	ches	
	Min	Max	Min	Max	
Α	3.94	4.70	0.155	0.185	
øb	0.38	0.48	0.015	0.019	
øD	8.51	9.40	0.335	0.370	
øD1	7.75	8.51	0.305	0.335	
øe	5.84 BSC		0.230	BSC	
F		1.02		0.040	
k	0.66	0.86	0.026	0.034	
k1	0.74	1.14	0.029	0.045	
L	12.70		0.500		

NOTES:

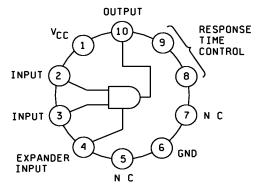
- 1. The U.S. preferred system of measurement is the metric SI. This item was designed using inch-pound units of measurement. In case of problems involving conflicts between the metric and inch-pound units, the inch-pound units shall rule.
- 2. Pin numbers shown for reference only.

FIGURE 1. Case outline(s) - Continued.

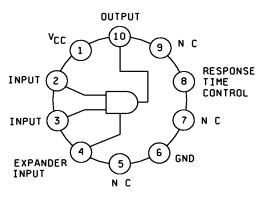
STANDARDIZED MILITARY DRAWING	SIZE A		5962-87617
DEFENSE SUPPLY CENTER COLUMBUS		REVISION LEVEL	SHEET
COLUMBUS, OHIO 43216-5000		D	8

查询"5962-8761701XA"供应商 01

DEVICE TYPE 02







CASE IS ELECTRICALLY ISOLATED

FIGURE 2. Terminal connections and functional diagram (top view).

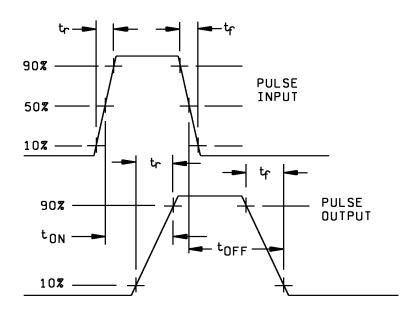


FIGURE 3. Switching time waveforms.

STANDARDIZED MILITARY DRAWING DEFENSE SUPPLY CENTER COLUMBUS COLUMBUS, OHIO 43216-5000	SIZE A		5962-87617
		REVISION LEVEL D	SHEET 9

TABLE II. Electrical test requirements.

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	Interim electrical parameters	1
	Final electrical parameters	1*, 2, 3, 9
	Group A test requirements	1, 2, 3, 9, 10, 11
	Group C end-point electrical parameters	1, 2, 3

- * PDA applies to subgroup 1.
- 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 4, 5, 6, 7, and 8 shall be omitted.
 - 4.3.2 Group B inspection (PI). Group B inspection shall be in accordance with MIL-PRF-38534.
 - 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 DSCC-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 test method 1005 of MIL-STD-883.
 - (2) TA 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.

STANDARDIZED MILITARY DRAWING DEFENSE SUPPLY CENTER COLUMBUS COLUMBUS, OHIO 43216-5000	SIZE A		5962-87617
		REVISION LEVEL D	SHEET 10

- 5. PACKAGING
- 查询ackaging /equirements 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 with the users of record for the individual documents. This coordination will be accomplished in accordance with MIL-STD-973 using DD Form 1692, Engineering Change Proposal.
- 6.4 <u>Record of users</u>. Military and industrial users shall inform Defense Supply Center Columbus 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 microelectronic devices (FSC 5962) should contact DSCC-VA, telephone (614) 692-7603.
- 6.5 <u>Comments</u>. Comments on this drawing should be directed to DSCC-VA, P. O. Box 3990, Columbus, Ohio 43216-5000, or telephone (614) 692-0676.
- 6.6 <u>Sources of supply</u>. Sources of supply are listed in QML-38534. The vendors listed in QML-38534 have submitted a certificate of compliance (see 3.7 herein) to DSCC-VA and have agreed to this drawing.

STANDARDIZED MILITARY DRAWING	SIZE A		5962-87617
DEFENSE SUPPLY CENTER COLUMBUS		REVISION LEVEL	SHEET
COLUMBUS, OHIO 43216-5000		D	11

STANDARD MICROCIRCUIT DRAWING SOURCE APPROVAL BULLETIN

DATE: 99-02-19

Approved sources of supply for SMD 5962-87617 are listed below for immediate acquisition only and shall be added to QML-38534 during the next revision. 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 DSCC-VA. This bulletin is superseded by the next dated revision of QML-38534.

Standard	Vendor	Vendor
microcircuit drawing	CAGE	similar
PIN <u>1</u> /	number	PIN <u>2</u> /
5962-8761701XA 5962-8761701XC 5962-8761701XA 5962-8761701XC 5962-8761701XA 5962-8761701XC	31757 31757 51651 51651 <u>3</u> /	51992 51992 MSK 0006H MSK 0006H 11105-DESC 11105-DESC
5962-8761701YA	3/	11105-DESC
5962-8761701YC	3/	11105-DESC
5962-8761702XA	51651	MSK 0008H
5962-8761702XC	51651	MSK 0008H

- 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 availability.
- <u>Caution</u>. 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 a QML source.

Vendor CAGE number_	Vendor name <u>and address</u>
31757	Micropac Industries, Incorporated 905 East Walnut Street Garland, TX 75040-6611
51651	M. S. Kennedy Corporation 8170 Thompson Road Cicero, NY 13039-9393

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