REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
A	Changes in accordance with N.O.R. 5962-R062-94.	93-12-06	M. A. FRYE
B	Redrawn. Add case outline X. Technical and editorial changes throughout.	95-03-24	M. A. FRYE
C	Drawing updated to reflect current requirements. - ro	01-10-02	R. MONNIN

REV																				
SHEET																				
REV																				
SHEET																				

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	12	13	

PMIC N/A

PREPARED BY
DAN WONNELL

DEFENSE SUPPLY CENTER COLUMBUS
COLUMBUS, OHIO 43216
http://www.dscc.dla.mil

STANDARD MICROCIRCUIT DRAWING

THIS DRAWING IS AVAILABLE FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE

AMSC N/A

CHECKED BY
SANDRA ROONEY

APPROVED BY
MICHAEL A. FRYE

DRAWING APPROVAL DATE
93-05-06

MICROCIRCUIT, LINEAR, ANALOG SWITCH, MONOLITHIC SILICON

REVISION LEVEL	SIZE	CAGE CODE	
C	A	**67268**	**5962-90737**

SHEET 1 OF 13

DSCC FORM 2233
APR 97

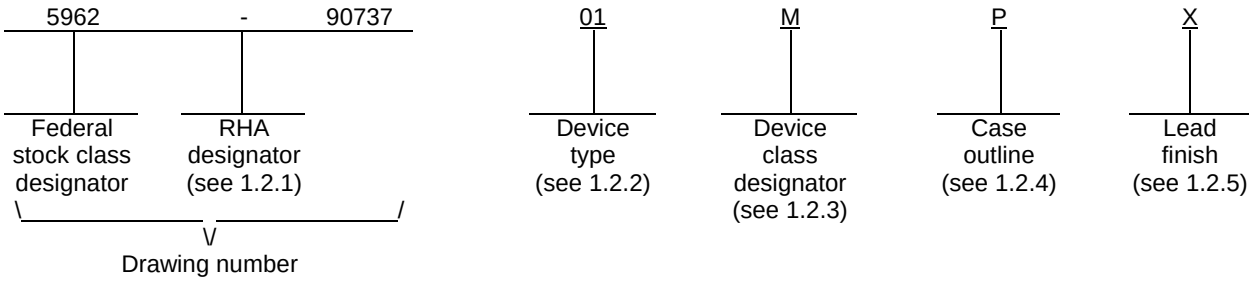
5962-E640-01

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

1. SCOPE

1.1 Scope. This drawing documents two product assurance class levels consisting of high reliability (device classes Q and M) 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 are 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. Device class M RHA marked devices meet the MIL-PRF-38535, appendix A specified RHA levels and are marked with the appropriate RHA designator. A dash (-) indicates a non-RHA device.

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

Device type	Generic number	Circuit function
01	DG417A	CMOS, SPST analog switch
02	DG418A	CMOS, SPST analog switch
03	DG419A	CMOS, SPST analog switch

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

Device class	Device requirements documentation
M	Vendor self-certification to the requirements for MIL-STD-883 compliant, non-JAN class level B microcircuits in accordance with MIL-PRF-38535, appendix A
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	Terminals	Package style
H	GDFP1-F10 or CDFP2-F10	10	Flat pack
P	GDIP1-T8 or CDIP2-T8	8	Dual-in-line
X	CDFP3-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 or MIL-PRF-38535, appendix A for device class M.

1.3 Absolute maximum ratings. 1/

Supply voltage between V+ and V-	44 V dc
Supply voltage between GND and V-	25 V dc
Digital inputs range to V-	(GND -0.3 V dc) to 44 V dc 2/
Digital input range V_S, V_D to V-	(V-) -2 V dc to (V+) +2 V dc or 30 mA, whichever occurs first 2/
Current (any terminal except for S and D) continuous	30 mA
Current (S or D) pulsed, 1 ms, 10% duty cycle	100 mA
Power dissipation (P_D):	
Cases H and X, at +70°C	421 mW 3/
Case P at +75°C	600 mW 3/
Junction temperature (T_J)	+175°C
Lead temperature (soldering, 10 seconds)	+300°C
Storage temperature range	-65°C to +150°C
Thermal resistance, junction-to-case (θ_{JC})	See MIL-STD-1835

1.4 Recommended operating conditions.

Positive supply voltage (V+)	+15 V dc
Negative supply voltage (V-)	-15 V dc
Logic supply voltage (V_L)	5 V dc
Ambient operating temperature range (T_A)	-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 listed in the issue of the Department of Defense Index of Specifications and Standards (DoDISS) and supplement thereto, cited in the solicitation.

SPECIFICATION

DEPARTMENT OF DEFENSE

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

STANDARDS

DEPARTMENT OF DEFENSE

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

1/ 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.

2/ Signals on S_X, D_X, or IN_X exceeding V+ or V- will be clamped by internal diodes. Limit forward diode current to the maximum current ratings.

3/ For case outlines H and X, derate above T_A = +70°C linearly at 5.26 mW/°C. For case outline P, derate above T_A = +75°C linearly at 12 mW/°C.

HANDBOOKS

DEPARTMENT OF DEFENSE

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

(Unless otherwise indicated, copies of the specification, standards, and handbooks are available 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 for device classes Q and V shall be in accordance with MIL-PRF-38535 and 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. The individual item requirements for device class M shall be in accordance with MIL-PRF-38535, appendix A for non-JAN class level B devices and as specified herein.

3.2 Design, construction, and physical dimensions. The design, construction, and physical dimensions shall be as specified in MIL-PRF-38535 and herein for device classes Q and V or MIL-PRF-38535, appendix A and herein for device class M.

3.2.1 Case outlines. The case outlines shall be in accordance with 1.2.4 herein.

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

3.2.3 Truth tables. The truth tables shall be as specified on figure 2.

3.3 Electrical performance characteristics and post irradiation parameter limits. Unless otherwise specified herein, the electrical performance characteristics and post irradiation parameter limits 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 defined in table I.

3.5 Marking. 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 MIL-HDBK-103. 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. Marking for device class M shall be in accordance with MIL-PRF-38535, appendix A.

3.5.1 Certification/compliance mark. The certification mark for device classes Q and V shall be a "QML" or "Q" as required in MIL-PRF-38535. The compliance mark for device class M shall be a "C" as required in MIL-PRF-38535, appendix A.

3.6 Certificate of compliance. 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). For device class M, 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 6.6.2 herein). The certificate of compliance submitted to DSCC-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 or for device class M, the requirements of MIL-PRF-38535, appendix A and herein.

3.7 Certificate of conformance. A certificate of conformance as required for device classes Q and V in MIL-PRF-38535 or for device class M in MIL-PRF-38535, appendix A shall be provided with each lot of microcircuits delivered to this drawing.

TABLE I. Electrical performance characteristics.

Test	Symbol	Conditions 1/ $-55°C \le T_A \le +125°C$ unless otherwise specified	Group A subgroups	Device type	Limits		Unit
					Min	Max	
Drain-source ON resistance	$r_{DS(ON)}$	I_S = -10 mA, V_D = ±12.5 V, V_{IN} = 0.8 V, V+ = +13.5 V, V- = -13.5 V	1	01	2.5	35	Ω
			2,3		2.5	45	
		I_S = -10 mA, V_D = ±12.5 V, V_{IN} = 2.4 V, V+ = +13.5 V, V- = -13.5 V	1	02	2.5	35	
			2,3		2.5	45	
		I_S = -10 mA, 2/ V_D = ±12.5 V, V_{IN} = 0.8 V, 2.4 V, V+ = +13.5 V, V- = -13.5 V	1	03	2.5	35	
			2,3		2.5	45	
Source OFF leakage current	$I_{S(OFF)}$	V_D = ±15.5 V, V_S = ±15.5 V, V_{IN} = 2.4 V, V+ = +16.5 V, V- = -16.5 V	1	01		±0.25	nA
			2,3			±20	
		V_D = ±15.5 V, V_S = ±15.5 V, V_{IN} = 0.8 V, V+ = +16.5 V, V- = -16.5 V	1	02		±0.25	
			2,3			±20	
		V_D = ±15.5 V, 2/ V_S = ±15.5 V, V_{IN} = 0.8 V, 2.4 V, V+ = +16.5 V, V- = -16.5 V	1	03		±0.25	
			2,3			±20	
Drain OFF leakage current	$I_{D(OFF)}$	V_D = ±15.5 V, V_S = ±15.5 V, V_{IN} = 2.4 V, V+ = +16.5 V, V- = -16.5 V	1	01		±0.25	nA
			2,3			±20	
		V_D = ±15.5 V, V_S = ±15.5 V, V_{IN} = 0.8 V, V+ = +16.5 V, V- = -16.5 V	1	02		±0.25	
			2,3			±20	

See footnotes at end of table.

TABLE I. Electrical performance characteristics – Continued.

Test	Symbol	Conditions 1/ $-55°C \le T_A \le +125°C$ unless otherwise specified	Group A subgroups	Device type	Limits		Unit
					Min	Max	
Drain OFF leakage current	$I_{D(OFF)}$	$V_D = \pm 15.5$ V, 2/ $V_S = \pm 15.5$ V, $V_{IN} = 0.8$ V, 2.4 V, V+ = +16.5 V, V- = -16.5 V	1	03		±0.75	nA
			2,3			±60	
Drain ON leakage current	$I_{D(ON)}$	$V_D = \pm 15.5$ V, $V_S = \pm 15.5$ V, $V_{IN} = 0.8$ V, V+ = +16.5 V, V- = -16.5 V	1	01		±0.4	nA
			2,3			±40	
		$V_D = \pm 15.5$ V, $V_S = \pm 15.5$ V, $V_{IN} = 2.4$ V, V+ = +16.5 V, V- = -16.5 V	1	02		±0.4	
			2,3			±40	
		$V_D = \pm 15.5$ V, 2/ $V_S = \pm 15.5$ V, $V_{IN} = 0.8$ V, 2.4 V, V+ = +16.5 V, V- = -16.5 V	1	03		±0.75	
			2,3			±60	
Logic input current, input voltage low	I_{IL}	$V_{IN} = 0.8$ V	1,2,3	All		±0.5	µA
Logic input current, input voltage high	I_{IH}	$V_{IN} = 2.4$ V	1,2,3	All		±0.5	µA
Turn-ON time	t_{ON}	$R_L = 300\ \Omega$, $C_L = 35$ pF, $V_S = \pm 10$ V, see figure 3	9	01,02	10	175	ns
			10,11		10	250	
Turn-OFF time	t_{OFF}	$R_L = 300\ \Omega$, $C_L = 35$ pF, $V_S = \pm 10$ V, see figure 3	9	01,02	10	145	ns
			10,11		10	210	
Transition time	t_{trans}	$R_L = 300\ \Omega$, $C_L = 35$ pF, $V_{S1} = \pm 10$ V, $V_{S2} = \pm 10$ V, see figures 4 and 6	9	03	10	175	ns
			10,11		10	250	

See footnotes at end of table.

TABLE I. Electrical performance characteristics – Continued.

Test	Symbol	Conditions 1/ $-55°C \le T_A \le +125°C$ unless otherwise specified	Group A subgroups	Device type	Limits		Unit
					Min	Max	
Break-before-make time delay	t_D	R_L = 300 Ω, C_L = 36 pF, $V_{S1} = V_{S2} = \pm 10$ V, T_A = +25°C, see figures 5 and 6	9	03	5	150	ns
Functional tests	FT	See 4.4.1c	7,8	All			
Positive supply current	I+	V+ = +16.5 V, V- = -16.5 V,	1	All		±1	µA
		V_{IN} = 0 V, 5 V	2,3			±5	
Negative supply current	I-	V+ = +16.5 V, V- = -16.5 V,	1	All		±1	µA
		V_{IN} = 0 V, 5 V	2,3			±5	
Logic supply current	I_L	V+ = +16.5 V, V- = -16.5 V,	1	All		±1	µA
		V_{IN} = 0 V, 5 V	2,3			±5	
Ground current	I_{GND}	V+ = +16.5 V, V- = -16.5 V,	1	All		±1	µA
		V_{IN} = 0 V, 5 V	2,3			±5	

1/ Unless otherwise specified, V+ = +15 V, V- = -15 V, V_L = 5 V, and GND = 0 V.

2/ V_{IN} = input voltage to perform proper function.

3.8 Notification of change for device class M. For device class M, notification to DSCC-VA of change of product (see 6.2 herein) involving devices acquired to this drawing is required for any change as defined in MIL-PRF-38535, appendix A.

3.9 Verification and review for device class M. For device class M, 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.

3.10 Microcircuit group assignment for device class M. Device class M devices covered by this drawing shall be in microcircuit group number 82 (see MIL-PRF-38535, appendix A).

Device types	01	02	03	01	02	03
Case outlines	H and X			P		
Terminal number	Terminal number					
1	S	S	D	S	D	D
2	NC	NC	S_1	NC	NC	S_1
3	GND	GND	GND	GND	GND	GND
4	V+	V+	V+	V+	V+	V+
5	NC	NC	NC	V_L	V_L	V_L
6	NC	NC	NC	IN	IN	IN
7	V_L	V_L	V_L	V-	V-	V-
8	IN	IN	IN	D	S	S_2
9	V-	V-	V-	---	---	---
10	D	D	S_2	---	---	---

NC = No connection

FIGURE 1. Terminal connections.

Device type 01		Device type 02		Device type 03		
Logic	Switch	Logic	Switch	Logic	Switch 1	Switch 2
0	ON	0	OFF	0	ON	OFF
1	OFF	1	ON	1	OFF	ON

NOTE: Logic “0” ≤ 0.8 V, logic “1” ≥ 2.4 V.

FIGURE 2. Truth table.

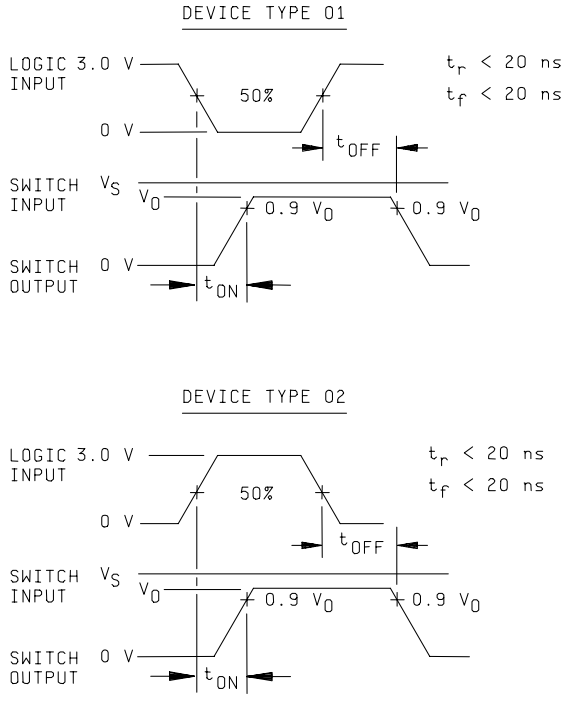


FIGURE 3. Timing diagram.

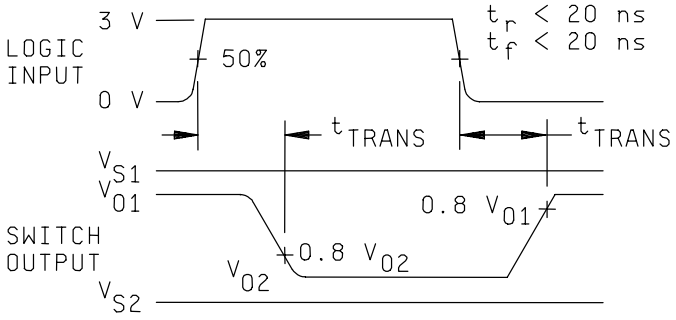


FIGURE 4. Transition time.

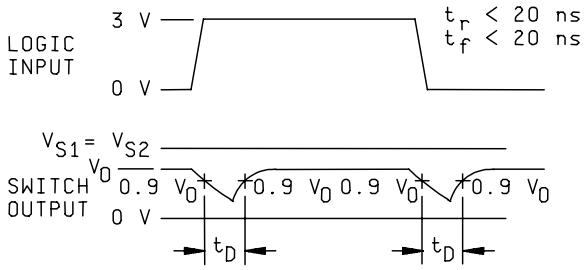


FIGURE 5. Break-before-make time delay.

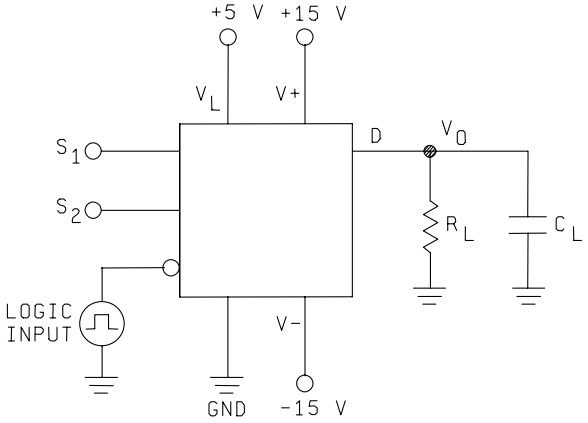


FIGURE 6. Transition time and break-before-make time delay test circuit.

4. QUALITY ASSURANCE PROVISIONS

4.1 Sampling and inspection. 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. For device class M, sampling and inspection procedures shall be in accordance with MIL-PRF-38535, appendix A.

4.2 Screening. 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. For device class M, screening shall be in accordance with method 5004 of MIL-STD-883, and shall be conducted on all devices prior to quality conformance inspection.

4.2.1 Additional criteria for device class M.

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 test method 1015.

(2) T_A = +125°C, minimum.

b. Interim and final electrical test parameters shall be as specified in table II herein.

4.2.2 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 test method 1015 of MIL-STD-883.

b. Interim and final electrical test parameters shall be as specified in table II herein.

c. 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 Qualification inspection for device classes Q and V. 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 Conformance inspection. 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. Quality conformance inspection for device class M shall be in accordance with MIL-PRF-38535, appendix A and as specified herein. Inspections to be performed for device class M shall be those specified in method 5005 of MIL-STD-883 and herein for groups A, B, C, D, and E inspections (see 4.4.1 through 4.4.4).

4.4.1 Group A inspection.

a. Tests shall be as specified in table II herein.

b. Subgroups 4, 5, and 6 in table I, method 5005 of MIL-STD-883 shall be omitted.

c. For device class M, subgroups 7 and 8 tests shall be sufficient to verify the truth table. For device classes Q and V, subgroups 7 and 8 shall include verifying the truth table.

TABLE II. Electrical test requirements.

Test requirements	Subgroups (in accordance with MIL-STD-883, method 5005, table I)	Subgroups (in accordance with MIL-PRF-38535, table III)	
	Device class M	Device class Q	Device class V
Interim electrical parameters (see 4.2)	1	1	1
Final electrical parameters (see 4.2)	1,2,3,7,8, 1/ 9,10,11	1,2,3,7,8, 1/ 9,10,11	1,2,3,7,8, 2/ 9,10,11
Group A test requirements (see 4.4)	1,2,3,7,8,9,10,11	1,2,3,7,8, 9,10,11	1,2,3,7,8, 9,10,11
Group C end-point electrical parameters (see 4.4)	1	1	1,2,3
Group D end-point electrical parameters (see 4.4)	1	1	1
Group E end-point electrical parameters (see 4.4)	---	---	---

1/ PDA applies to subgroup 1.
2/ PDA applies to subgroups 1 and 7.

4.4.2 Group C inspection. The group C inspection end-point electrical parameters shall be as specified in table II herein.

4.4.2.1 Additional criteria for device class M. Steady-state life test conditions, method 1005 of MIL-STD-883:

a. 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 test method 1005 of MIL-STD-883.

b. T_A = +125°C, minimum.

c. Test duration: 1,000 hours, except as permitted by method 1005 of MIL-STD-883.

4.4.2.2 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 test 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 II herein.

4.4.4 Group E inspection. 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 II 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. For device class M, the devices shall be subjected to radiation hardness assured tests as specified in MIL-PRF-38535, appendix A for the RHA level being tested. All device classes must meet the post irradiation end-point electrical parameter limits as defined in table I at T_A = +25°C ±5°C, after exposure, to the subgroups specified in table II herein.

c. 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-PRF-38535 for device classes Q and V or MIL-PRF-38535, appendix A for device class M.

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.

6.1.1 Replaceability. Microcircuits covered by this drawing will replace the same generic device covered by a contractor prepared specification or drawing.

6.1.2 Substitutability. Device class Q devices will replace device class M devices.

6.2 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.

6.3 Record of users. Military and industrial users should inform Defense Supply Center Columbus when a system application requires configuration control and which SMD's are applicable to that system. 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) 692-0544.

6.4 Comments. Comments on this drawing should be directed to DSCC-VA , Columbus, Ohio 43216-5000, or telephone (614) 692-0547.

6.5 Abbreviations, symbols, and definitions. 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 Sources of supply for device classes Q and V. Sources of supply for device classes Q and V are listed in QML-38535. The vendors listed in QML-38535 have submitted a certificate of compliance (see 3.6 herein) to DSCC-VA and have agreed to this drawing.

6.6.2 Approved sources of supply for device class M. Approved sources of supply for class M 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.

STANDARD MICROCIRCUIT DRAWING BULLETIN

DATE: 01-10-02

Approved sources of supply for SMD 5962-90737 are listed below for immediate acquisition information only and shall be added to MIL-HDBK-103 during the next revision. MIL-HDBK-103 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 MIL-HDBK-103.

Standard microcircuit drawing PIN 1/	Vendor CAGE number	Vendor similar PIN 2/
5962-9073701MHA	3/	DG417AL/883B
5962-9073701MPA	1ES66	DG417AK/883B
	17856	DG417AK/883
5962-9073701MXC	1ES66	DG417AL/883B
5962-9073702MHA	3/	DG418AL/883B
5962-9073702MPA	1ES66	DG418AK/883B
	17856	DG418AK/883
5962-9073702MXC	1ES66	DG418AL/883B
5962-9073703MHA	3/	DG419AL/883B
5962-9073703MPA	1ES66	DG419AK/883B
	17856	DG419AK/883
5962-9073703MXC	1ES66	DG419AL/883B

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.

Vendor CAGE number	Vendor name and address
1ES66	Maxim Integrated Products 120 San Gabriel Drive Sunnyvale, CA 94086-5125
17856	Siliconix, Incorporated 2201 Laurelwood Road Santa Clara, CA 95054-1516

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