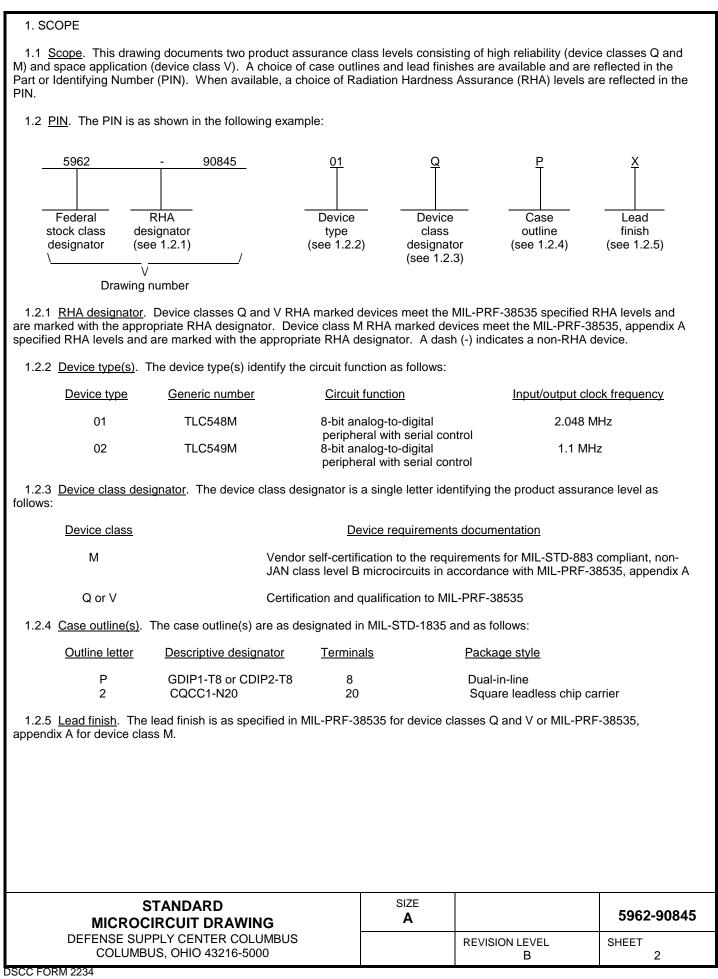
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LTR	DESCRIPTION						DA	TE (YI	R-MO-E	DA)	APPROVED								
А	Changes	Changes in accordance with NOR 5962-R222-92.								92-0	6-19		M. A. FRYE						
В	Correctio current re			block o	on shee	et 1. [Drawin	g upda	ted to re	eflect		03-03-03				R. MONNIN			
THE ORIGINAL				AWING	HAS E	BEEN	REPL	ACED.											
REV																			
SHEET																			
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REV STATUS			REV	т		B 1	B 2	В 3	В 4	В 5	В 6	В 7	В 8	В 9	В 10	B 11	B 12	B 13	
OF SHEETS SHEET 1 2 3 PMIC N/A PREPARED BY Rick C. Officer PREPARED BY Rick C. Officer Image: Comparison of the state of the stat				DEFENSE SUPPLY CENTER COLUMBUS COLUMBUS, OHIO 43216 http://www.dscc.dla.mil						<u> </u>									
THIS DRAWING IS AVAILABLE FOR USE BY ALL DEPARTMENTS			Mi	OVED I ichael A	A. Frye				MICROCIRCUIT, LINEAR, 8-BIT A/D PERIPHER WITH SERIAL CONTROL, MONOLITHIC SILICO										
AND AGENCIES OF THE DEPARTMENT OF DEFENSE 91-04-29			ATE																
AM	SC N/A		REVIS	SION LE	EVEL B				,	ZE A		.GE CC 67268			ł	5962-	9084	5	
									SHE			1	OF	13					

DSCC FORM 2233 APR 97

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



1.3 Absolute maximum ratings. 1/ Input voltage range at any input -0.3 V to V_{CC} + 0.3 V Peak input current range (any input) ±10 mA Peak total input current range (all inputs) ±30 mA Case temperature for 60 seconds, case 2 +260°C Lead temperature soldering, 1.6 mm (0.0625) from case for 60 seconds: Case P +300°C Power dissipation (P_D), (T_A \leq +25°C): <u>3</u>/ Thermal resistance, junction-to-ambient (θ_{IA}): Case P 110°C/W Case 2 1375°C/W Junction temperature (T_J) +150°C 1.4 Recommended operating conditions. Positive reference voltage (V_{REF+}) 2.5 V minimum, V_{CC} + 0.1 V maximum <u>4</u>/ Negative reference voltage (V_{REF-}) -0.1 V minimum, 2.5 V maximum <u>4/</u> Differential reference voltage (V_{REF+}), (V_{REF-}) 1 V minimum, V_{CC} + 0.2 V maximum 4/ Analog input voltage 0 V minimum, V_{CC} maximum 4/ Low level control input voltage (VIL) 0.8 V maximum 5/ Input/output clock frequency f_{CLK(I/O)}: <u>5</u>/ Device type 01 0 MHz minimum, 2.048 MHz maximum Device type 02 0 MHz minimum, 1.1 MHz maximum Input/output clock high t_{WH(I/O)}: <u>5/</u> Device type 02 404 ns minimum Input/output clock low t_{WL(I/O)}: <u>5/</u> Device type 01 200 ns minimum Setup time, \overline{CS} low before first I/O clock t_{SU(CS)} 1.4 µs minimum <u>5</u>/ <u>6</u>/ 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. All voltage values are with respect to network ground terminal with the REF- and GND terminal connected together. 2/ <u>3</u>/ Derate 8.4 mW/°C above $T_A = +25$ °C for case P and derate 11.0 mW/°C above $T_A = +25$ °C for case 2. 4/ Analog input voltages greater than that applied to REF+ convert to all ones (11111111), while input voltages less than that applied to REF- convert to all zeros (00000000). For proper operation, the positive reference voltage V_{REF+} must be at least 1 V greater than the negative voltage V_{RFF}. In addition, unadjusted errors may increase as the differential reference

- voltage V_{REF+} V_{REF-} falls below 4.75 V.
- $\underline{5}$ / V_{CC} = 4.75 V to 5.5 V

<u>6</u>/ To minimize errors caused by noise at the CS input, the internal circuitry waits for two rising edges and one falling edge of internal system clock after CS falling edge before responding to control input signals. This CS setup time is given by the t_{EN} and t_{SU(CS)} specifications.

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2. APPLICABLE DOCUMENTS

2.1 <u>Government specification, standards, and handbooks</u>. 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.

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 <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 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 <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 or MIL-PRF-38535, appendix A and herein for device class M.

3.2.1 Case outline(s). The case outline(s) shall be in accordance with 1.2.4 herein.

3.2.2 <u>Terminal connections</u>. 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 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.

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	Т	ABLE I. Electrical performance	e characteristic	<u>s</u> .			
Test	Symbol	Conditions $-55^{\circ}C \le T_A \le +125^{\circ}C$ unless otherwise specified	Group A subgroups	Device type	Limits		Unit
			_		Min	Max	
High level output voltage	V _{OH}	$V_{CC} = 4.75 \text{ V}, I_{OH} = -360 \mu\text{A}$	1, 2, 3	All	2.4		V
Low level output voltage	V _{OL}	$V_{CC} = 4.75 \text{ V}, I_{OL} = 3.2 \text{ mA}$	1, 2, 3	All		0.4	V
Off state (high impedance state) output current	I _{OZ}	$V_{O} = V_{CC}, V_{CC} = 5.5 \text{ V},$ $\overline{CS} \text{ at } V_{CC}$ $V_{O} = 0, V_{CC} = 5.5 \text{ V},$ $\overline{CS} \text{ at } V_{CC}$	1, 2, 3	All		10 -10	μΑ
High level input current, control inputs	I _{IH}	$V_1 = V_{CC} = 5.5 V$	1, 2, 3	All		2.5	μA
Low level input current, control inputs	IIL	$V_{I} = 0, V_{CC} = 5.5 V$	1, 2, 3	All		-2.5	μA
Analog channel "ON" state input current, during sample cycle	I _{I(ON)}	Analog input at V_{CC} , $V_{CC} = 5.5 V$ Analog input at 0 V, $V_{CC} = 5.5 V$	1, 2, 3	All		1	μA
Operating supply current	I _{CC}	$V_{CC} = 5.5 \text{ V}, \overline{\text{CS}} \text{ at } 0 \text{ V}$	1, 2, 3	All		3	mA
Supply and reference current	I _{CC} +I _{REF}	$V_{\text{REF+}} = V_{\text{CC}} = 5.5 \text{ V}$	1, 2, 3	All		3.25	mA
Linearity error <u>1</u> /	EL		1, 2, 3	All		±0.5	LSB
Zero error <u>2</u> /	E ₀		1, 2, 3	All		±0.5	LSB
Full scale error 2/	E _{FS}		1, 2, 3	All		±0.5	LSB
Total unadjusted error <u>3</u> /	EU		1, 2, 3	All		±0.5	LSB
Input capacitance	C _{IN}	Analog inputs, see 4.4.1c Control inputs, see 4.4.1c	4	All		55 15	pF
Conversion time	t _{CONV}	See figure 2	9, 10, 11	All		17	μs
Total access and conversion time	t _{AC}	See figure 2	9, 10, 11	01		22	μs
Channel acquisition time (sample cycle)	t _{ACQ}	See figure 2	9, 10, 11	02 All		25 4	I/O clock cycle
Time output data remains valid after I/O clock falling edge	t _V	V _{CC} = 5.0 V	9, 10, 11	All	10		ns

See footnotes at end of table.

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	TABLE	. Electrical performance chara	<u>icteristics</u> – Co	ntinued.			
Test	Symbol	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	Group A subgroups	Device type	Limits		Unit
					Min	Max	
Delay time to data output	t _D	I/O clock falling edge,	9, 10, 11	01		300	ns
valid		$V_{CC} = 5.0 V$		02		400	
Output enable time	t _{EN}	$V_{CC} = 5.0 V,$	9, 10, 11	All		1.4	μs
		See figures 2 and 3					
Output disable time	t _{DIS}	$V_{CC} = 5.0 V,$	9, 01, 11	All		150	ns
	510	See figures 2 and 3					
Data bus rise time	t _{R(bus)}	V _{CC} = 5.0 V,	9, 10, 11	All		300	ns
		See figures 2 and 3					
Data bus fall time	t _{F(bus)}	$V_{CC} = 5.0 V,$	9, 10, 11	All		300	ns
	. (300)	See figures 2 and 3					

1/ Linearity error is the deviation from the best straight line through the A/D transfer characteristics.

2/ Zero error is the difference between 00000000 and the converted output for zero input voltage; full scale error is the difference between 11111111 and the converted output for full scale input voltage.

3/ Total unadjusted error is the sum of linearity, zero, and full scale errors.

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. The compliance mark for device class M shall be a "C" as required in MIL-PRF-38535, appendix A.

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). 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 <u>Certificate of conformance</u>. 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.

3.8 <u>Notification of change for device class M</u>. 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 <u>Verification and review for device class M</u>. 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.

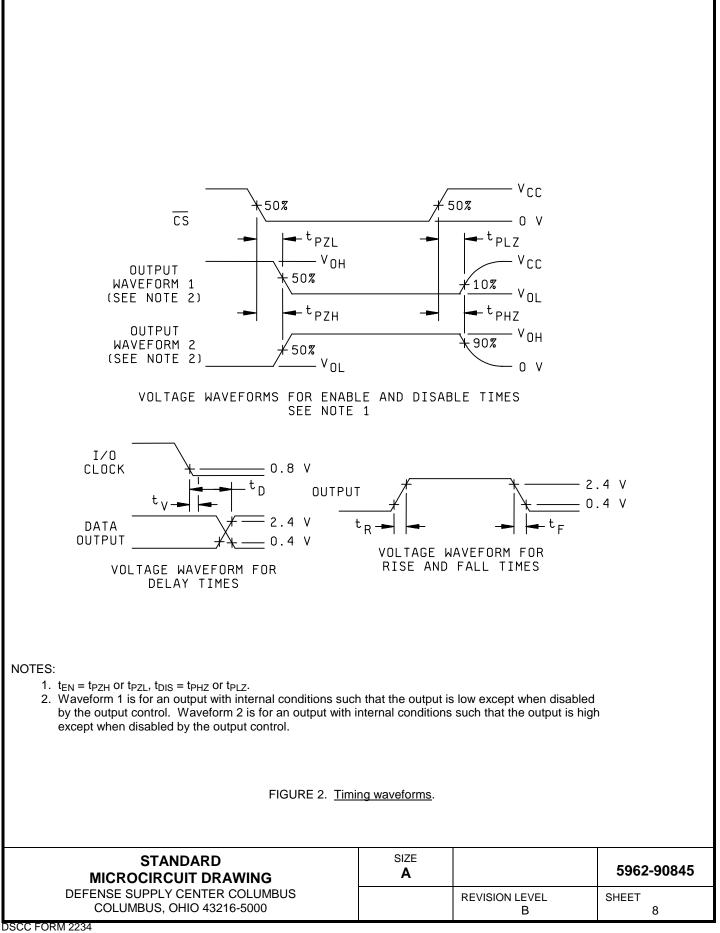
3.10 <u>Microcircuit group assignment for device class M</u>. Device class M devices covered by this drawing shall be in microcircuit group number 81 (see MIL-PRF-38535, appendix A).

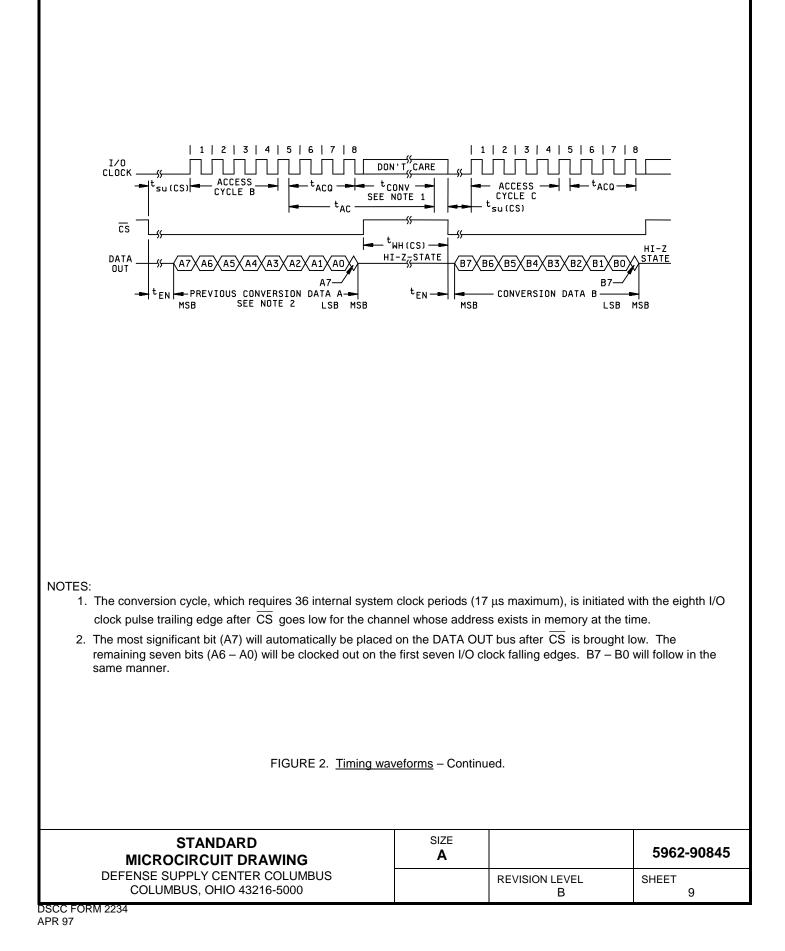
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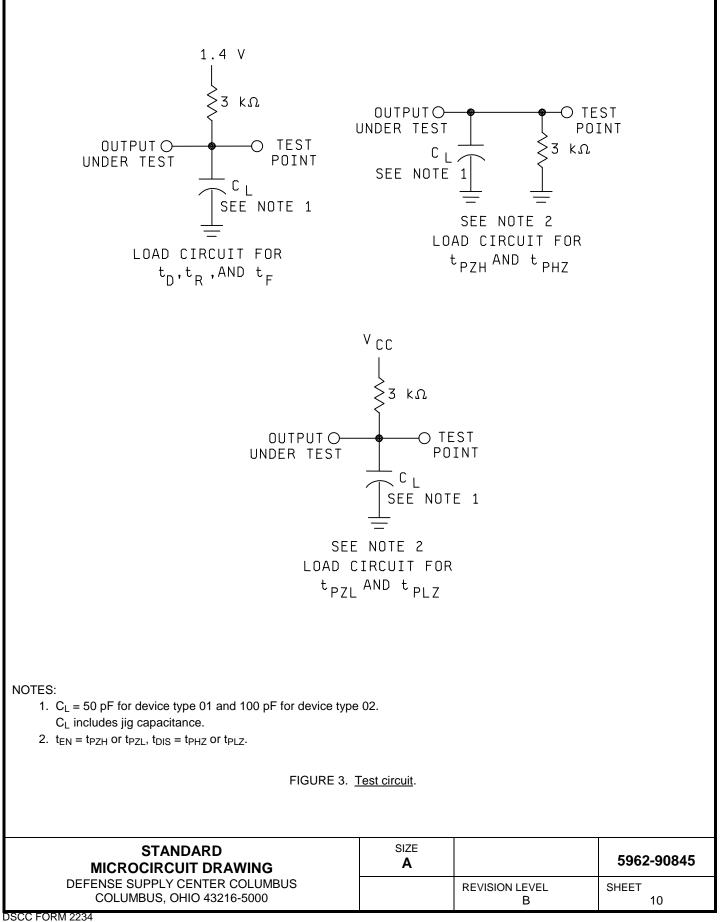
Device types	01 a	nd 02
Case outlines	Р	2
Terminal number	Termina	al symbol
1	REF+	NC
2	ANALOG IN	REF+
3	REF-	NC
4	GND	NC
5	CS	ANALOG IN
6	DATA OUT	NC
7	I/O CLOCK	REF-
8	V _{CC}	NC
9		NC
10		GND
11		NC
12		cs
13		NC
14		NC
15		DATA OUT
16		NC
17		I/O CLOCK
18		NC
19		NC
20		V _{CC}

FIGURE 1. Terminal connections.

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4. QUALITY ASSURANCE PROVISIONS

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

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. 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 B 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) $T_A = +125^{\circ}C$, minimum.
- b. Interim and final electrical test parameters shall be as specified in table IIA 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 IIA 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 <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. 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 IIA herein.
- b. Subgroups 5, 6, 7, and 8 in table I, method 5005 of MIL-STD-883 shall be omitted.
- c. Subgroup 4 (C_{IN} measurement) shall be measured only for the initial test and after process or design changes which may affect input capacitance.

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Test requirements	Subgroups (in accordance with MIL-STD-883, method 5005, table I)	Subgroups (in accordance with MIL-PRF-38535, table III)	
	Device	Device	Device
	class M	class Q	class V
Interim electrical			
parameters (see 4.2)			
Final electrical	1,2,3,9,10,11 <u>1</u> /	1,2,3, <u>1</u> /	1,2,3, <u>1</u> / <u>2</u> /
parameters (see 4.2)		9,10,11	9,10,11
Group A test	1,2,3,4,9,10,11	1,2,3,4,	1,2,3,4,
requirements (see 4.4)		9,10,11	9,10,11
Group C end-point electrical parameters (see 4.4)	1	1	
Group D end-point electrical parameters (see 4.4)	1	1	1
Group E end-point electrical parameters (see 4.4)	1,4,9	1,4,9	1,4,9

TABLE IIA. Electrical test requirements.

1/ PDA applies to subgroup 1.

2/ Delta limits in accordance with table IIB shall be computed with reference to the previous interim electrical parameters.

Table IIB. Delta limits at +25°C.

Parameter	Device type	
	All	
EL	$\pm 10\%$ of specified value in table I	

4.4.2 <u>Group C inspection</u>. The group C inspection end-point electrical parameters shall be as specified in table IIA 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 B 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. $T_A = +125^{\circ}C$, 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.

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4.4.3 <u>Group D inspection</u>. 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. 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 postirradiation end-point electrical parameter limits as defined in table I at $T_A = +25^{\circ}C \pm 5^{\circ}C$, after exposure, to the subgroups specified in table IIA herein.
- c. When specified in the purchase order or contract, a copy of the RHA delta limits shall be supplied.

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 or MIL-PRF-38535, appendix A for device class M.

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 <u>Replaceability</u>. 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 <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.

6.3 <u>Record of users</u>. 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 <u>Comments</u>. Comments on this drawing should be directed to DSCC-VA , Columbus, Ohio 43216-5000, or telephone (614) 692-0547.

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 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 <u>Approved sources of supply for device class M</u>. 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.

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STANDARD MICROCIRCUIT DRAWING BULLETIN

DATE: 03-03-03

Approved sources of supply for SMD 5962-90845 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 bulletin is superseded by the next dated revision of MIL-HDBK-103 and QML-38535.

Standard	Vendor	Vendor
microcircuit drawing	CAGE	similar
PIN <u>1</u> /	number	PIN <u>2</u> /
5962-9084501MPA	<u>3</u> /	TLC548MJGB
5962-9084501M2A	<u>3</u> /	TLC548MFKB
5962-9084502MPA	<u>3</u> /	TLC549MJGB
5962-9084502M2A	<u>3</u> /	TLC549MFKB

- <u>1</u>/ 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.
- <u>2</u>/ <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.
- $\underline{3}$ / Not available from an approved source of supply.

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