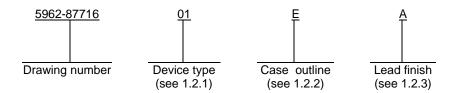
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1. SCOPE

- 1.1 <u>Scope</u>. This drawing describes device requirements for MIL-STD-883 compliant, non-JAN class level B microcircuits in accordance with MIL-PRF-38535, appendix A.
 - 1.2 Part or Identifying Number (PIN). The complete PIN is as shown in the following example:



1.2.1 <u>Device types</u>. The device types identify the circuit function as follows:

Device type	Generic number	<u>Circuit function</u>		
01	MUX-08A	8-channel JFET analog multiplexer		
02	MUX-08B	8-channel JFET analog multiplexer		

1.2.2 Case outlines. The case outlines are as designated in MIL-STD-1835 as follows:

Outline letter	Descriptive designator	<u>Terminals</u>	Package style
Е	GDIP1-T16 or CDIP2-T16	16	Dual-in-line
2	CQCC1-N20	20	Square leadless chip carrier

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

Positive supply voltage (V _{CC})	-18 V dc
Logic input voltage Analog input voltage	
Maximum current through any pin	
Storage temperature range	
Power dissipation (P _D) 1/	500 mW
Lead temperature (soldering, 60 seconds)	300°C
Junction temperature (T _J)	150°C
Thermal resistance, junction-to-case (θ _{JC})	See MIL-STD-1835
Thermal resistance, junction-to-case (θ_{JA}):	
Case E	91°C/W
Case 2	110°C/W

1.4 Recommended operating conditions.

Positive supply voltage (V _{CC})	+15 V dc
Negative supply voltage (V _{EE})	-15 V dc
Ambient operating temperature range (T _A)	-55°C to +125°C
Digital "1" input voltage (V _{IH})	2.0 V min
Digital "0" input voltage (V _{IL})	0.8 V max
Analog voltage range (V _A)	±10 V max

1/ Derate above 100°C, 10 mW/°C.

STANDARD MICROCIRCUIT DRAWING	SIZE A		5962-87716
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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 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.daps.dla.mil/quicksearch/ or 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 shall be in accordance with MIL-PRF-38535, appendix A for non-JAN class level B devices and as specified herein. Product built to this drawing that is produced by a Qualified Manufacturer Listing (QML) certified and qualified manufacturer or a manufacturer who has been granted transitional certification to MIL-PRF-38535 may be processed as QML product in accordance with the manufacturers approved program plan and qualifying activity approval in accordance with MIL-PRF-38535. This QML flow as documented in the Quality Management (QM) plan may make modifications to the requirements herein. These modifications shall not affect form, fit, or function of the device. These modifications shall not affect the PIN as described herein. A "Q" or "QML" certification mark in accordance with MIL-PRF-38535 is required to identify when the QML flow option is used.
- 3.2 <u>Design, construction, and physical dimensions</u>. The design, construction, and physical dimensions shall be as specified in MIL-PRF-38535, appendix A and herein.
 - 3.2.1 <u>Case outlines</u>. The case outlines shall be in accordance with 1.2.2 herein.
 - 3.2.2 Terminal connections. The terminal connections shall be as specified on figure 1.
 - 3.2.3 Truth table. The truth table shall be as specified on figure 2.
 - 3.2.4 Logic diagram. The logic diagram shall be as specified on figure 3.
 - 3.2.5 Switching time waveforms. The switching time waveforms shall be as specified on figure 7.
- 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 ambient operating temperature range.
- 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 described in table I.

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

Test	Symbol	Conditions $-55^{\circ}C \le T_A \le +125^{\circ}C$ $V_{CC} = +15 \text{ V}, V_{EE} = -15 \text{ V}$	Group A	Device	Lin	nits	Unit
		unless otherwise specified	subgroups	type	Min	Max	
Positive supply current	Icc	unicos cunerwise apasines	1	All	141111	12	mA
			2, 3	=		15	
Negative supply current	I _{EE}		1	All	-3.8		mA
			2, 3		-5		
"ON" resistance	R _{ON}	-10 V ≤ V _{SOURCE} ≤ +10 V,	1	01		300	Ω
		I _{SOURCE} = 200 μA		02		400	
			2, 3	01		400	
				02		500	
"ON" resistance change with	Δ R _{ON} /	-10 V ≤ V _{SOURCE} ≤ +10 V,	1	01		5	%
change in source voltage	ΔV_{SOURCE}	I _{SOURCE} = 200 μA <u>1</u> /	2			7	
			3			6	
			1	02		7	
			2			8	
			3			8	
R _{ON} MATCH	Ron	V _{SOURCE} = 0 V,	1	01		15	%
between switches	MATCH	I _{SOURCE} = 200 μA <u>1</u> /, <u>2</u> /	2			20	
			3			18	
			1	02		20	
			2			23	
			3			23	
Digital input current	I _{IN}	V _{IN} = 0.4 V to 15 V	1	All		±10	μА
			2, 3			±20	
Digital "0" enable current	I _{IN(EN)}	V _{IN(EN)} = 0.4 V	1	All		±10	μА
			2, 3			±20	

See footnotes at end of table.

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 ${\sf TABLE\ I.\ } \underline{\sf Electrical\ performance\ characteristics} \text{ - continued.}$

		0 111						
Test	Symbol	Conditi $-55^{\circ}C \le T_{A} \le V_{CC} = +15 \text{ V}, \text{ V}$	≤+125°C	Group A subgroups	Device type	Lin	nits	Unit
		unless otherwi	se specified			Min	Max	
Source current	I _{SOURCE}	V _{SOURCE} = 10 V	V _{IL} = 0.8 V	1, 3	01		±1	nA
(Switch "OFF")	(OFF)	$V_{DRAIN} = -10 \text{ V}$	V _{IL} = 0.7 V	2			±25	
		<u>3</u> /	V _{IL} = 0.8V	1	02		±2	
			V _{IL} = 0.7 V	2			±50	
			V _{IL} = 0.8 V	3			±25	
Drain current	I _{DRAIN}	V _{SOURCE} = 10 V	V _{IL} = 0.8V	1, 3	01		±1	nA
(Switch "OFF")	(OFF)	$V_{DRAIN} = -10 \text{ V}$	V _{IL} = 0.7 V	2			±100	
		<u>3</u> /	V _{IL} = 0.8 V	1	02		±2	
			V _{IL} = 0.7 V	2	-		±500	
			V _{IL} = 0.8 V	3			±100	
Leakage current	I _{DRAIN} (ON)+	V _{IH} = 2 V,	1	1, 3	01		±1	nA
(Switch "ON")	I _{SOURCE} (ON)	V _{SOURCE} = V _{DRAIN}	= +10 V	2			±100	
		<u>3</u> /		1	02		±2	
				2			±500	
				3			±100	
Analog voltage range	V _A	<u>1</u> /		1, 2, 3	All	±10		V
Digital "0" input voltage	V _{IL}	<u>1</u> /		1, 3	All		0.8	V
				2			0.7	
Digital "1" input voltage	V _{IH}	1/		1, 2, 3	All	2.0		V
Functional tests 4/		See 4.3.1c		1, 2, 3	All			
Switching time	t _{PHL} , t _{PLH}	$V_{S1} = +10 \text{ V}, V_{S8}$ $R_L = 10 \text{ M}\Omega, C_L =$		9	All		2.1	μS
		See figures 4 and	d 7	10, 11 <u>1</u> /			3.5	

See footnotes at end of table.

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TABLE I. Electrical performance characteristics - continued.

Test	$\label{eq:Symbol} Symbol & Conditions \\ -55^{\circ}C \leq T_{A} \leq +125^{\circ}C \\ V_{CC} = +15 \text{ V}, V_{EE} = -15 \text{ V} \\ \end{cases}$		Group A subgroups	Device type	Limits		Unit
		unless otherwise specified			Min	Max	
Enable delay "ON"	t _{ON(EN)}	$V_{S1} = -1.0 \text{ V}, C_L = 10 \text{ pF},$	9	All		2.0	μS
		$R_L = 1 \text{ k}\Omega,$	10, 11 <u>1</u> /			3.0	
Enable delay "OFF"	t _{OFF(EN)}	See figures 5 and 7	9	All		0.4	
			10, 11 <u>1</u> /			1.0	
Break-before-make delay	t _{OPEN}	$V_{S1} = V_{S8} = -1V$, $T_A = 25$ °C See figures 6 and 7	9	All	0.1		μS

- 1/ Guaranteed, if not tested, to the specified limits.
- 2/ Ron match specified as a percentage of RAVERAGE where:

1 N

 $R_{\text{AVERAGE}} = N_{\parallel} \Sigma_{\parallel} R_{i} \ \, \text{with N = number of channels, R}_{i} = \text{each channel's "ON" resistance.}$

- 3/ Conditions applied to leakage tests insure worst case leakages.
- 4/ Verified by leakage tests.

- 3.5 <u>Marking</u>. Marking shall be in accordance with MIL-PRF-38535, appendix A. The part shall be marked with the PIN listed in 1.2 herein. In addition, the manufacturer's PIN may also be marked. For packages where marking of the entire SMD PIN number is not feasible due to space limitations, the manufacturer has the option of not marking the "5962-" on the device.
- 3.5.1 <u>Certification/compliance mark</u>. A compliance indicator "C" shall be marked on all non-JAN devices built in compliance to MIL-PRF-38535, appendix A. The compliance indicator "C" shall be replaced with a "Q" or "QML" certification mark in accordance with MIL-PRF-38535 to identify when the QML flow option is used.
- 3.6 <u>Certificate of compliance</u>. A certificate of compliance shall be required from a manufacturer in order to be listed as an approved source of supply in MIL-HDBK-103 (see 6.6 herein). The certificate of compliance submitted to DLA Land and Maritime -VA prior to listing as an approved source of supply shall affirm that the manufacturer's product meets the requirements of MIL-PRF-38535, appendix A and the requirements herein.
- 3.7 <u>Certificate of conformance</u>. A certificate of conformance as required in MIL-PRF-38535, appendix A shall be provided with each lot of microcircuits delivered to this drawing.
- 3.8 <u>Notification of change</u>. Notification of change to DLA Land and Maritime -VA shall be required for any change that affects this drawing.
- 3.9 <u>Verification and review</u>. DLA Land and Maritime, DLA Land and Maritime 's agent, and the acquiring activity retain the option to review the manufacturer's facility and applicable required documentation. Offshore documentation shall be made available onshore at the option of the reviewer.

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Device type	01 and 02	
Case outline	E	2
Terminal number	Terminal	symbol
1	A ₀	NC
2	ENABLE	A_0
3	V_{EE}	ENABLE
4	S1	V_{EE}
5	S2	S1
6	S3	NC
7	S4	S2
8	DRAIN	S3
9	S8	S4
10	S7	DRAIN
11	S6	NC
12	S5	S8
13	V_{CC}	S7
14	GND	S6
15	A_2	S5
16	A_1	NC
17		V_{CC}
18		GND
19		A_2
20		A ₁

FIGURE 1. <u>Terminal connections</u>.

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A ₂	A ₁	A ₀	ENABLE	"ON" Channel
Х	Χ	X	L	NONE
L	L	L	Н	1
L	L	Н	Н	2
L	Н	L	Н	3
L	Н	Н	Н	4
Н	L	L	Н	5
Н	L	Н	Н	6
Н	Н	L	Н	7
Н	Н	Н	Н	8

FIGURE 2. Truth table.

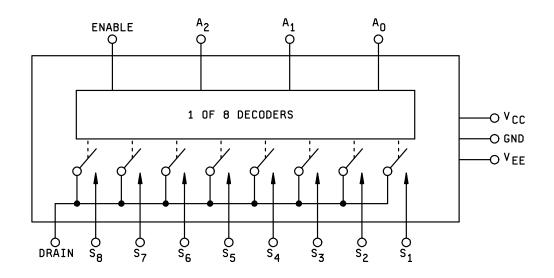


FIGURE 3. Logic diagram.

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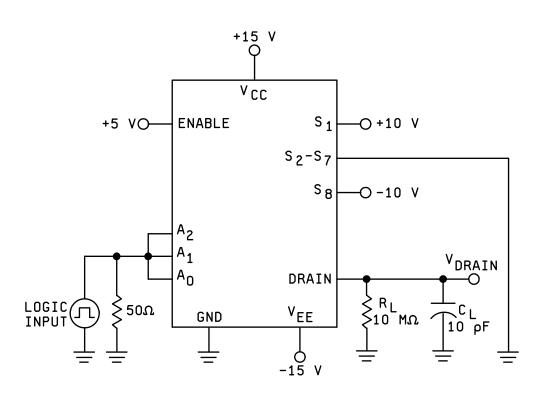


FIGURE 4. Transition time test circuit.

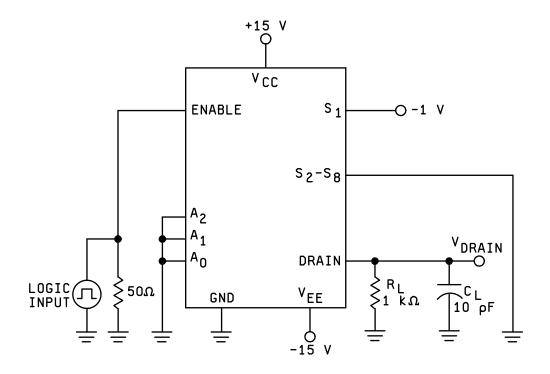


FIGURE 5. Enable delay time test circuit.

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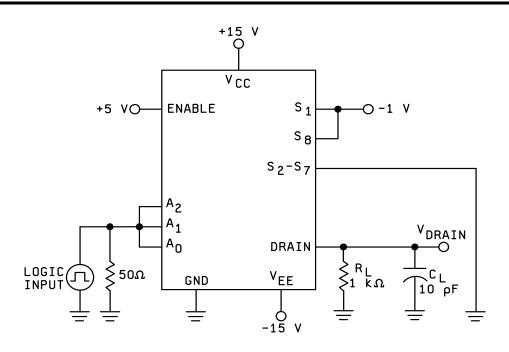


FIGURE 6. Break-before-make test circuit.

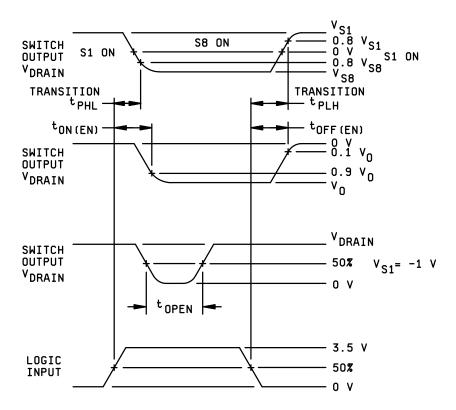


FIGURE 7. Switching time waveforms.

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4. VERIFICATION

- 4.1 <u>Sampling and inspection</u>. Sampling and inspection procedures shall be in accordance with MIL-PRF-38535, appendix A.
- 4.2 <u>Screening</u>. Screening shall be in accordance with method 5004 of MIL-STD-883, and shall be conducted on all devices prior to quality conformance inspection. The following additional criteria shall apply:
 - a. Burn-in test, method 1015 of MIL-STD-883.
 - (1) Test condition A, B, C, or D. The test circuit shall be maintained by the manufacturer under document revision level control and shall be made available to the preparing or acquiring activity upon request. The test circuit shall specify the inputs, outputs, biases, and power dissipation, as applicable, in accordance with the intent specified in method 1015 of MIL-STD-883.
 - (2) $T_A = +125^{\circ}C$, minimum.
 - b. Interim and final electrical test parameters shall be as specified in table II herein, except interim electrical parameter tests prior to burn-in are optional at the discretion of the manufacturer.

TABLE II. Electrical test requirements.

MIL-STD-883 test requirements	Subgroups (in accordance with MIL-STD-883, method 5005, table I)
Interim electrical parameters (method 5004)	1
Final electrical test parameters (method 5004)	1*, 2, 3, 9
Group A test requirements (method 5005)	1, 2, 3, 9, (10, 11)**
Groups C and D end-point electrical parameters (method 5005)	1

^{*} PDA applies to subgroup 1.

- 4.3 <u>Quality conformance inspection</u>. Quality conformance inspection shall be in accordance with method 5005 of MIL-STD-883 including groups A, B, C, and D inspections. The following additional criteria shall apply.
 - 4.3.1 Group A inspection.
 - a. Tests shall be as specified in table II herein.
 - b. Subgroups 4, 5, 6, 7, and 8 in table I, method 5005 of MIL-STD-883 shall be omitted.
 - c. Leakage tests, performed on all channels, shall verify the truth table.

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^{**} Subgroups 10 and 11 are guaranteed, if not tested, to the limits specified in table I.

4.3.2 Groups C and D inspections.

- a. End-point electrical parameters shall be as specified in table II herein.
- b. Steady-state life test conditions, method 1005 of MIL-STD-883.
 - (1) Test condition A, B, C, or D. The test circuit shall be maintained by the manufacturer under document revision level control and shall be made available to the preparing or acquiring activity upon request. The test circuit shall specify the inputs, outputs, biases, and power dissipation, as applicable, in accordance with the intent specified in method 1005 of MIL-STD-883.
 - (2) $T_A = +125^{\circ}C$, minimum.
 - Test duration: 1,000 hours, except as permitted by method 1005 of MIL-STD-883.

5. PACKAGING

- 5.1 Packaging requirements. The requirements for packaging shall be in accordance with MIL-PRF-38535, appendix A.
- 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 using DD Form 1692, Engineering Change Proposal.
- 6.4 <u>Record of users</u>. Military and industrial users shall inform DLA Land and Maritime when a system application requires configuration control and the applicable SMD 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 microelectronics devices (FSC 5962) should contact DLA Land and Maritime -VA, telephone (614) 692-0544.
- 6.5 <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.
- 6.6 <u>Approved sources of supply</u>. Approved sources of supply are listed in MIL-HDBK-103. The vendors listed in MIL-HDBK-103 have agreed to this drawing and a certificate of compliance (see 3.6 herein) has been submitted to and accepted by DLA Land and Maritime -VA.

STANDARD		
MICROCIRCUIT DRAWING		

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STANDARD MICROCIRCUIT DRAWING BULLETIN

DATE: 11-06-08

Approved sources of supply for SMD 5962-87716 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 http://www.dscc.dla.mil/Programs/Smcr/.

Standard	Vendor	Vendor
microcircuit drawing	CAGE	similar
PIN <u>1</u> /	number	PIN <u>2</u> /
5962-8771601EA	24355	MUX-08AQ
5962-8771602EA	24355	MUX-08BQ
5962-87716022A	24355	MUX-08BRC

- 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/ <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.

Vendor CAGE <u>number</u> Vendor name and address

24355

Analog Devices Rt 1 Industrial Park PO Box 9106 Norwood, MA 02062 Point of contact:

> 804 Woburn Street Wilmington, MA 01887-3462

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



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Минимальные сроки поставки, гибкие цены, неограниченный ассортимент и индивидуальный подход к клиентам являются основой для выстраивания долгосрочного и эффективного сотрудничества с предприятиями радиоэлектронной промышленности, предприятиями ВПК и научно-исследовательскими институтами России.

С нами вы становитесь еще успешнее!

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