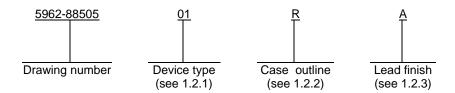
					ŀ	KEVISI	ONS										
LTR			DESC	RIPTIO	N					DATE (YR-MO-DA)			APPROVED				
Α	Drawing updated t	to reflect cu	rrent requ	ıiremen	ts ro	)				01-06-20			R. MONNIN				
В	Under table I, full s limit column, delet delete +0.488 and	scale tempe e -0.488 an substitute	erature dri d substitu +0.586	ift test, f ite -0.58 ro	or devi 36; max	ce type kimum l	e 01 onl limit col	y; minii lumn,	minimum nn,		10-10-07		C. SAFFLE				
THE ORIGINA	AL FIRST SHEET OF	THIS DRAV	VING HAS	S BEEN	I REPL	ACED.											
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REV SHEET REV		THIS DRAV	VING HAS	S BEEN	I REPL	ACED.	В	В	В	В	В	В	В				
REV SHEET REV SHEET	S							B 5	B 6	B 7	B 8	B 9	B 10				
REV SHEET REV SHEET REV STATUS OF SHEETS PMIC N/A	S	REV SHEET PREPAF MARCI	RED BY A B. KELI	B 1	B 2	В	В		6	7 DLA I	8 LAND	9 <b>AND</b>	10				
REV SHEET REV SHEET REV STATUS OF SHEETS PMIC N/A STA	ANDARD	REV SHEET PREPAR	RED BY A B. KELI	B 1	B 2	В	В		6	7 DLA I	8 LAND IBUS,	9 AND OHIO	10	218-39			
REV SHEET REV SHEET REV STATUS OF SHEETS PMIC N/A STAMICR DR	ANDARD OCIRCUIT AWING	REV SHEET PREPAF MARCI CHECKE RAY M APPROV	RED BY A B. KELI ED BY ONNIN	B 1	B 2	В	B 4	5	6 CC	7 DLA I DLUM http	8 LAND IBUS, 0://ww	9 AND, OHIO	10 MAR D 432 cc.dla	218-39 a.mil	990	6-TO-	
REV SHEET REV SHEET REV STATUS OF SHEETS PMIC N/A  STA MICR DR  THIS DRAW FOR I DEP, AND AGE	ANDARD OCIRCUIT AWING	REV SHEET PREPAF MARCI CHECKE RAY M APPROV	RED BY A B. KELI ED BY ONNIN /ED BY EL A. FR'	B 1	B 2	В	B 4	5 CROC	6 CC	7 DLA I DLUM http	BUS;	9 AND, OHIO	10  MAR  0 432  cc.dla	218-39 a.mil			
REV SHEET REV SHEET REV STATUS OF SHEETS PMIC N/A  STA MICR DR  THIS DRAW FOR I DEP/ AND AGE DEPARTME	ANDARD OCIRCUIT RAWING VING IS AVAILABLE USE BY ALL ARTMENTS ENCIES OF THE	REV SHEET PREPAF MARCI CHECKE RAY M APPROV MICHA DRAWIN	RED BY A B. KELI ED BY ONNIN /ED BY EL A. FR' 88-0	B 1 LEHER  YE  OVAL E  07-19	B 2	В	B 4	5 CROC	6 CON	7 DLA I DLUM http	BLANDIBUS, DELINE, RTER	9 AND, OHIO	0 MAR O 432 cc.dla	218-39 a.mil ANA	990 ALOG	CON	

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

Device type	Generic number	Circuit function
01	AD573	10 bit A/D converter with microprocessor interface
02	AD673	8 bit A/D converter with microprocessor interface

1.2.2 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
R	GDIP1-T20 or CDIP2-T20	20	Dual-in-line

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

V <sub>CC</sub> to digital common	. +7 V dc
VEE to digital common	16.5 V dc
Analog common to digital common	. ±1 V dc
Analog input to analog common	±15 V dc
Control inputs	. 0 V to V <sub>CC</sub>
Digital outputs (high impedance state)	. 0 V to V <sub>CC</sub>
Power dissipation (PD)	. 800 mW
Storage temperature range	65°C to +150°C
Lead temperature (soldering 10 seconds)	. +300°C
Thermal resistance, junction-to-case ( $\theta_{JC}$ )	. See MIL-STD-1835
Thermal resistance, junction-to-ambient ( $\theta_{JA}$ )	. 85°C/W

1.4 Recommended operating conditions.

$V_{CC}$		+5 V dc
$V_{EE}$		-15 V dc
Ambie	ent operating temperature range (T <sub>A</sub> )	-55°C to +125°C

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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 Case outline. The case outline shall be in accordance with 1.2.2 herein.
  - 3.2.2 <u>Terminal connections</u>. The terminal connections shall be as specified on figure 1.
  - 3.2.3 Timing waveforms. The timing waveforms shall be as specified on figure 2.
- 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.
- 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.

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

Test	Symbol	Conditions $\underline{1}/$ -55°C $\leq$ T <sub>A</sub> $\leq$ +125°C unless otherwise specified	Group A subgroups	Device type	Limits		Unit
					Min	Max	
Relative accuracy	RA	Unipolar and bipolar	1	All	195	+.195	% of FS
		major transactions ±3	2,3,12	01	098	+.098	
		codes	2,3	02	195	+.195	
Differential nonlinearity	DNR	All codes test unipolar 2/	1	01	8		Bits
		and bipolar	2,3,12	01	10		
			1,2,3	02	8		
Full-scale error	Ae	Unipolar <u>3</u> /	1	All	-40	+40	mV
		Bipolar <u>3</u> /	-		-20	+20	
Full-scale temperature	ΔAe /		2,3	01	586	+.586	% of FS
drift	Δt			02	781	+.781	
Offset error	Vos	First transition	1	All	-20	+20	mV
			12	01	-10	+10	
Offset temperature drift	ΔV <sub>OS</sub> /		2,3	01	195	+.195	% of FS
	Δt			02	391	+.391	
Bipolar zero error	B <sub>PZE</sub>	Low side MSB transaction	1	All	-20	+20	mV
		bipolar	12	01	-10	+10	
Bipolar zero temperature	ΔB <sub>PZE</sub> /	Low side MSB transaction	2,3	01	195	+.195	% of FS
drift	Δt	bipolar		02	391	+.391	
Tri-state leakage current	lolt	DB0 – DB9, V <sub>OH</sub> = 5.0 V,	1,2,3	01	-40	+40	μА
		V <sub>OL</sub> = 0.0 V		02	-40	+40	
Power supply rejection ratio	PSRR	$V_{CC} = 5.0 \text{ V},$ $-15.75 \text{ V} \le V_{EE} \le 14.25 \text{ V}$	1,2,3	All	-78.1	+78.1	mV
		V <sub>CC</sub> = 5.0 V, -12.6 V ≤ V <sub>EE</sub> ≤ -11.4 V	12	01	-19.5	+19.5	

See footnotes at end of table.

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

Test	Symbol	Conditions $\underline{1}/$ -55°C $\leq$ T <sub>A</sub> $\leq$ +125°C unless otherwise specified	Group A subgroups	Device type	Lir	mits	Unit
					Min	Max	
Power supply current	Icc	DATA READY low or  DATA READY high (during conversion),  TA = +25°C	1	All		15	mA
	IEE	T <sub>A</sub> = +25°C			-15		
Input voltage (high)	VIH	<u>4</u> /	1,2,3	All	2.0		V
Input voltage (low)	VIL	<u>4</u> /	1,2,3	All		0.8	V
Input current (high)	lін	<u>4</u> /	1,2,3	All	-100	+100	μΑ
Input current (low)	I <sub>I</sub> L	<u>4</u> /	1,2,3	All	-100	+100	μА
Output voltage (low)	V <sub>OL</sub>	DATA READY , DB0-DB9, I <sub>OL</sub> = +3.2 mA	1,2,3	01		0.4	V
		DATA READY , DB0-DB7, I <sub>OL</sub> = +3.2 mA		02		0.4	
Output voltage (high)	VOH	DB0-DB9, I <sub>OH</sub> = -0.5 mA	1,2,3	01	2.4		V
		DB0-DB7, I <sub>OH</sub> = -0.5 mA		02	2.4		
Input resistance	R <sub>IN</sub>		4,5,6	All	3	7	kΩ
Conversion time	t <sub>C</sub>	See figure 2, T <sub>A</sub> = +25°C	9	All	10	30	μS
Covert pulse width	tCS	See figure 2, T <sub>A</sub> = +25°C	9	All	500		ns
DATA READY delay convert	tDSC	See figure 2, T <sub>A</sub> = +25°C	9	All		1.5	μS
Data valid after HBE or LBE high	tHD	See figure 2, $\underline{5}$ / $T_A = +25^{\circ}C$	9	01	50		ns
Data valid after  DATA ENABLE high	t <sub>HD</sub>	See figure 2, $\underline{5}$ / $T_A = +25^{\circ}C$	9	02	50		ns
Output float delay	t <sub>HL</sub>	See figure 2, T <sub>A</sub> = +25°C	9	All		200	ns
Data access time	t <sub>DD</sub>	See figure 2, T <sub>A</sub> = +25°C	9	All		250	ns

See footnotes at end of table.

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## TABLE I. Electrical performance characteristics - Continued.

- $_{\text{CC}}$  = +5 V, V<sub>EE</sub> = -15 V, analog input through 15  $_{\Omega}$  resistor to V<sub>EE</sub> pin, unipolar configuration. Unipolar configuration bipolar offset control pin is grounded. Bipolar configuration bipolar offset control pin is not connected.
- Minimum resolution for which no missing codes are guaranteed: For device type 01 (10-Bit resolution device), 0.098% of full scale = 1 LSB. For device type 02 (8-Bit resolution device), 0.391% of full scale = 1 LSB.
- 3/ Device type 01 full scale error guaranteed trimmable with a 200  $\Omega$  potentiometer. Device type 02 full scale error guaranteed trimmable with a 50  $\Omega$  potentiometer.
- 4/ Conditions for device type 01 are CONVERT, LBE, and HBE. Conditions for device type 02 are CONVERT and DATA\_ENABLE.
- 5/ If not tested, shall be guaranteed to the limits specified in table I herein.
- 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 types	01 02		
Case outline	R		
Terminal number	Terminal symbol		
1	DB0 LSB	NC (SEE NOTE)	
2	DB1	NC (SEE NOTE)	
3	DB2	DB0 LSB	
4	DB3	DB1	
5	DB4	DB2	
6	DB5	DB3	
7	DB6	DB4	
8	DB7	DB5	
9	DB8	DB6	
10	DB9 MSB	DB7 MSB	
11	Vcc Vcc		
12	CONVERT CONVERT		
13	V <sub>EE</sub> V <sub>EE</sub>		
14	ANALOG IN ANALOG IN		
15	ANALOG COMMON ANALOG COMMON		
16	BIPOLAR OFFSET BIPOLAR OFFSET CONTROL		
17	DIGITAL COMMON DIGITAL COMMON		
18	DATA READY DATA READY		
19	LBE NC		
20	HBE	DATA ENABLE	

NOTE: For device type 02, pins 1 and 2 are internally connected to test points and should be left floating.

FIGURE 1. Terminal connections.

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# DEVICE TYPES 01 AND 02 CONVERT TIMING CONVERT V<sub>OH</sub>+V<sub>OL</sub> DATA READY DEVICE TYPES 02 READ TIMING V<sub>IH</sub>+V<sub>IL</sub> DATA ENABLE 2 $^{\mathsf{t}_{\mathsf{DD}}}$ ⊢ t<sub>HD</sub> HIGH IMPEDANCE HIGH $v_{\underline{OH}}$ DATA\_ VALID IMPEDANCE DBO-DB7 $v_{OL}$ DEVICE TYPES 01 READ TIMING V<sub>IH</sub>+V<sub>IL</sub> LBE OR HBE $\mathtt{t}_{\mathsf{DD}}$ **-**t<sub>HD</sub> HIGH HIGH DBO-DB7 νон IMPEDANCE IMPEDANCE DATA OR DB8-DB9 VOL VALID

FIGURE 2. Timing waveforms.

-t<sub>HL</sub>-

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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 B. 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.
  - c. Optional subgroup 12 is used for grading and part selection at 25°C, and is not included in PDA.
- 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.
    - Tests shall be as specified in table II herein.
    - b. Subgroups 7, 8, 10, and 11 in table I, method 5005 of MIL-STD-883 shall be omitted.
    - c. Optional subgroup 12 is used for grading and part selection at 25°C.
  - 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 B. 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.
      - (3) Test duration: 1,000 hours, except as permitted by method 1005 of MIL-STD-883.

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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)	
Final electrical test parameters	1*,2,3,4,9,12
(method 5004)	
Group A test requirements	1,2,3,4,5,6,9,12
(method 5005)	
Groups C and D end-point	1
electrical parameters	
(method 5005)	

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

## 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) 692-0547.
- 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.

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## STANDARD MICROCIRCUIT DRAWING BULLETIN

DATE: 10-10-07

Approved sources of supply for SMD 5962-88505 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> /
5962-8850501RA	24355	AD573SD/883
5962-8850202RA	24355	AD673SD/883

- 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
 Vendor name

 \_\_number\_\_
 and address

24355 (2) Analog Devices
Route 1 Industrial

Route 1 Industrial Park P.O. 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.