NOTICE OF	1. DATE (YYMMDD) 94-08-12	Form Approved OMB No. 0704-0188		
This revision described below has been authorized to	or the document listed.			
Public reporting burden for this collection is estimated to average 2 by gathering and maintaining the data needed, and completing and revier of this collection of information, including suggestions for reducing the Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, (0704-0188), Washington, DC 20503.	2. PROCURING ACTIVITY NO.			
PLEASE DO NOT RETURN YOUR COMPLETED FORM TO EITHER OF T OFFICER FOR THE CONTRACT/ PROCURING ACTIVITY NUMBER LIST		THE GOVERNMENT ISSUING	CONTRACTING	3. DODAAC
4. ORIGINATOR	b. ADDRESS (Street, City, State, Zip Code)		5. CAGE CODE	6. NOR NO.
	Defense Electronics Supply Ce 1507 Wilmington Pike Dayton, OH 45444-5270	enter	67268	5962-R231-94
a. TYPED NAME (First, Middle Initial, Last)			7. CAGE CODE 67268	8. DOCUMENT NO. 5962-87591
9. TITLE OF DOCUMENT MICROCIRCUIT, LINEAR, HIGH-SPEED, AN CONVERTER, MONOLITHIC SILICON	ALOG TO DIGITAL	10. REVISION LETTE	R	11. ECP NO. 5962-87591ECP-1
CONVERTER, MOROCITING CLEOCIT		a. CURRENT	b. NEW	. 0002 0700 1201
		A	В	
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES	ALL			
13. DESCRIPTION OF REVISION	ALL			
Sheet 1: Revisions Itr column; add "B". Revisions description column; add "Char Revisions date column; add "94-08-12". Revision level block; delete "A" and subs Rev status of sheets; For sheets 1, 4, 5,	titute "B".	-94".		
Sheet 4: TABLE I. Internal reference voltage outpoor substitute "-5.2 V". Revision level block; delete "A" and subst		te "+5.2 V" and		
Sheet 5: TABLE I. Data acess time after RD, (C _L = "If not tested, shall be guaranteed to the I Revision level block; delete "A" and subst	mits specified in table I herein."	ch states;		
Sheet 6: TABLE I. Bus relinquish time test. Under the symb states; "Time t ₇ is defined as the time red loaded with the circuits of figure 3." Delay between successive read operation Add new footnote "4/" which states; "If no in table I herein." Renumber footnote "4/" as footnote "5/" v for the delta lines to change 0.5 V when leading to the control of the delta lines to change 0.5 V when leading to the control of the delta lines to change 0.5 V when leading to the delta lines 0.5 V when leading 0.5 V when leadi	nuired for the delta lines to change 0.5 V has test. Under group A subgroups column tested, shall be guaranteed to the limits which states; "Time to is defined as the time baded with the circuits of figure 3."	when n, add subgroup "9". specified		
14. THIS SECTION FOR GOVERNMENT USE ONLY				
a. (X one) X (1) Existing docum	ent supplemented by the NOR may be us	sed in manufacture.		
(2) Revised docum	ent must be received before manufactur	er may incorporate thi	s change.	
(3) Custodian of m	aster document shall make above revision	on and furnish revised	document.	
b. ACTIVITY AUTHORIZED TO APPROVE CHANGE FOR GOVERNMENT		c. TYPED NAME (First, Middle I		
DESC-ELDS	o construct	MICHAEL A. FRYE	(DATE	
d. TITLE BRANCH, CHIEF MICROELECTRONICS	e. SIGNATURE MICHAEL A. FRYE		f. DATE SIGNED (YYMMDD) 94-08-12	
15a. ACTIVITY ACCOMPLISHING REVISION	b. REVISION COMPLETED (Signature)		c. DATE SIGNED	
DESC-ELDS	RICK C. OFFICER		(YYMMDD) 94-08	3-12

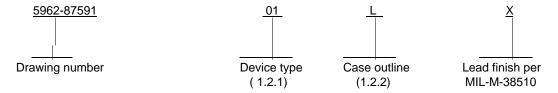
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1 OF

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1. SCOPE

- 1.1 <u>Scope</u>. This drawing describes device requirements for class B microcircuits in accordance with 1.2.1 of MIL-STD-883, "Provisions for the use of MIL-STD-883 in conjunction with compliant non-JAN devices".
 - 1.2 Part number. The complete part number shall be as shown in the following example:



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

Device type	Generic number	<u>Circuit function</u>
01	AD7572	12.5-microsecond, 11-bit linearity, 12-bit resolution CMOS A/D converter with 45 ppm/°C reference.
02	AD7572	12.5-microsecond, 11-bit linearity, 12-bit resolution CMOS A/D converter with 25 ppm/°C reference.
03	AD7572	12.5-microsecond, 12-bit linearity, 12-bit resolution CMOS A/D converter with 25 ppm/°C reference.
04	AD7572	5-microsecond, 11-bit linearity, 12-bit resolution CMOS A/D converter with 45 ppm/°C reference.
05	AD7572	5-microsecond, 11-bit linearity, 12-bit resolution CMOS A/D converter with 25 ppm/°C reference.
06	AD7572	5-microsecond, 12-bit linearity, 12-bit resolution CMOS A/D converter with 25 ppm/°C reference.

1.2.2 Case outline(s). The case outlines shall be as designated in appendix C of MIL-M-38510, and as follows:

Outline letter	Case outline
----------------	--------------

- L D-9 (24-lead, 1.280" x .310" x .200"), dual-in-line package
 C-4 (28-terminal, .460" x .460" x .100"), leadless ceramic square chip carrier package
- 1.3 Absolute maximum ratings (T_A = +25°C, unless otherwise noted).

V_{DD} to DGND	-0.3 V dc to +7 V dc +0.3 V dc to -17 V dc -0.3 V dc, V _{DD} +0.3 V dc -15 V dc to +15 V dc -0.3 V dc, V _{DD} +0.3 V dc -0.3 V dc, V _{DD} +0.3 V dc -65°C to +150°C 1000 mW <u>1</u> /
Case L	See MIL-M-38510, appendix C See MIL-M-38510, appendix C +175°C

1/ Derate power dissipation above +75°C by 10 mW/°C.

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1.4 Recommended operating conditions.

Ambient operating temperature range (T_A).....

2. APPLICABLE DOCUMENTS

2.1 <u>Government specification, standard, and bulletin</u>. Unless otherwise specified, the following specification, standard, and bulletin of the issue listed in that issue of the Department of Defense Index of Specifications and Standards specified in the solicitation, form a part of this drawing to the extent specified herein.

-55°C to +125°C

SPECIFICATION

MILITARY

MIL-M-38510

- Microcircuits, General Specification for.

STANDARD

MILITARY

MIL-STD-883

- Test Methods and Procedures for Microelectronics.

BULLETIN

MILITARY

MIL-BUL-103

- List of Standardized Military Drawings (SMD's).

(Copies of the specification, standard, and bulletin required by manufacturers in connection with specific acquisition functions should be obtained from the contracting activity or as directed by the contracting activity.)

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.

3. REQUIREMENTS

- 3.1 <u>Item requirements</u>. The individual item requirements shall be in accordance with 1.2.1 of MIL-STD- 883, "Provisions for the use of MIL-STD-883 in conjunction with compliant non-JAN 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-M-38510 and herein.
 - 3.2.1 Terminal connections. The terminal connections shall be as specified on figure 1.
 - 3.2.2 Load circuits. The load circuits shall be as specified on figures 2 and 3.
 - 3.2.3 Timing diagrams. Timing diagrams and tables shall be as specified on figures 4, 5, 6, and 7.
 - 3.2.4 <u>Case outlines</u>. The case outlines shall be in accordance with 1.2.2 herein.

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	Т	ABLE I. Electrical performance	<u>characteris</u>	tics.			
Test	Test Symbol Cond -55°C ≤ T _A		Device types	Group A subgroups	Liı	mits	Unit
		unless otherwise specified			Min	Max	
Integral linearity error	LE	V _{DD} = 5 V, V _{SS} = -15 V	01, 02	1		<u>+</u> 1	LSB
			04, 05			<u>+</u> 1	
			03, 06	2, 3		<u>+</u> 3/4	-
	_		03, 06	12		<u>+</u> 1/2	-
Differential linearity error	DLE	V _{DD} = 5 V, V _{SS} = -15 V	All	1, 2, 3		<u>+</u> 1	
Offset error	Vos	$V_{DD} = 5 \text{ V}$	All	1		<u>+</u> 4	LSB
		V _{SS} = -15 V	01, 04	2, 3		<u>+</u> 6	
			02, 05			<u>+</u> 5	-
			03, 06			<u>+</u> 4	-
			02, 05	12		<u>+</u> 3	1
			03, 06				
Full scale error including	AE	V _{DD} = 5 V	All	1		<u>+</u> 15	LSB
internal voltage		V _{SS} = -15 V	02, 03	12		<u>+</u> 10	
reference error, (Ideal last code transition =		Full scale = 5 V	05, 06				
FS-3/2LSB's)							
Full scale temperature	dAE/dT	V _{DD} = 5 V	01, 04	2, 3		45	ppm/°C
coefficient, including		V _{SS} = -15 V	02, 03			25	
internal voltage reference drift			05, 06				
Analog input current	I _{IN}	A _{IN} = 5 V	All	1, 2, 3		3.5	mA
Internal reference	V _{REF}	V _{DD} = 5 V, V _{SS} = -15 V	All	1	-5.3	+5.2	V
voltage output							
Internal reference output		Constant external load	All	13, 14, 15		550	μА
current sink capability	ļ , ,	during conversion	•	4.0.0		2.2	.,
Digital input low voltage	VINL	CS, RD, HBEN, CLK IN.	All	1, 2, 3		0.8	V
Digital input high voltage	VINH	V _{DD} = 4.75 V		_	2.4		
Digital input capacitance	C _{IN}	Vss = -15 V		13		10	pF
Digital input current	I _{IN}	CS, RD, HBEN.	All	1, 2, 3		<u>+</u> 10	μΑ
		$V_{DD} = 5.25 \text{ V}, V_{SS} = -15 \text{ V}$ $A_{IN} = 0 \text{ TO } V_{DD}$					
		CLK IN. V _{DD} = 5.25 V, V _{SS} = -	All			<u>+</u> 20	1
		15 V, $A_{IN} = 0$ to V_{DD}					

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	TABL	E I. Electrical performance char	acteristics - (Continued.			
Test	Symbol	Conditions $-55^{\circ}C \le T_A \le +125^{\circ}C$	Device types	Group A subgroups	Limits		Unit
		unless otherwise specified			Min	Max	
Digital output low voltage	V _{OL}	D11-DO/8, BUSY, CLK OUT V _{DD} = 4.75 V, V _{SS} = -15 V	All	1, 2, 3		0.4	V
Digital output high voltage	Vон	Isink = 1.6 mA Isource = 200 μA			4.0		
Floating state leakage current	Vol	D11-DO/8. V _{DD} = 5.25 V, V _{SS} = -15 V	All	1, 2, 3		<u>+</u> 10	μΑ
Floating state output capacitance	Соит		All	13, 14, 15		15	pF
Conversion time using	tconv		04,05,06	13,14,15		5	
synchronous clock			01,02,03			12.5	μs
Conversion time using 1/			04,05,06	9, 10,11	4.8	5.2	
asynchronous clock			01,02,03		12.0	13.0	
Power supply current from V _{DD}	loo	V _{DD} = 5.25 V V _{SS} = -15.75 V	All	1, 2, 3		7	mA
Power supply current from Vss	Iss	$CS = RD = \overline{BUSY} = HIGH$ $A_{IN} = 5 V$				12	
CS to RD setup time	t ₁	See figures 4, 5, 6, and 7	All	9, 14, 15	0		ns
RD to BUSY	t ₂	2/		9		190	
propagation delay				14, 15		270	
Data access time after	t ₃ <u>3</u> /			9		110	
\overline{RD} , $C_L = 60 \text{ pF}$ (see figure 2)				14, 15		150	
Data access time after	t ₃ <u>3</u> /			9		125	
RD , $C_L = 100 \text{ pF}$ (see figure 2)				14, 15		170	
RD pulse width	t ₄			9, 14, 15	t ₃		
CS to RD hold time	t ₅			9, 14, 15	0		

See footnotes at end of table.

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TABLE I.	Electrical	performance	characteristics	- Continued.
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Test	Symbol	Conditions $-55^{\circ}C \le T_{A} \le +125^{\circ}C$	Device types	Group A subgroups	Lin	nits	Unit
		unless otherwise specified			Min	Max	
Data setup time after	t ₆ <u>3</u> /	See figures 4, 5, 6, and 7	All	9		70	ns
BUSY , CL = 60 pF (see figure 2)		2/		14, 15		100	
Bus relinquish time	t ₇ <u>4</u> /			9	35	90	
(see figure 3)				14, 15	20	90	
HBEN to RD setup	t ₈			9, 14, 15	0		
HBEN to RD hold time	t ₉			9, 14, 15	0		
Delay between successive read operations	t 10			9, 14, 15	500		

- 1/ Conversion time using asynchronous clock is measured by setting the clock frequency at the appropriate value (see 1.4) and checking all remaining tested specifications.
- 2/ All input control signals are specified with t_r = t_f = 5 ns (10 percent to 90 percent of +5 V) and timed from a voltage level of 1.6 V. Time t6 and t10 are measured only for the initial test and after process or design changes which may affect switching parameters.
- 3/ Time t₃ and t₆ are measured with the load circuits of figure 2 and defined as the time required for an output to cross 0.8 V or 2.4 V.
- 4/ Time t₇ is defined as the time required for the data lines to change 0.5 V when loaded with the circuits of figure 3.
- 3.3 <u>Electrical performance characteristics</u>. Unless otherwise specified herein, the electrical performance characteristics are as specified in table I and 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-STD-883 (see 3.1 herein). The part shall be marked with the part number listed in 1.2 herein. In addition, the manufacturer's part number may also be marked as listed in MIL-BUL-103 (see 6.6 herein).
- 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-BUL-103 (see 6.6). The certificate of compliance submitted to DESC-ECS prior to listing as an approved source of supply shall affirm that the manufacturer's product meets the requirements of MIL-STD-883 (see 3.1 herein) and the requirements herein.
- 3.7 <u>Certificate of conformance</u>. A certificate of conformance as required in MIL-STD-883 (see 3.1 herein) shall be provided with each lot of microcircuits delivered to this drawing.
- 3.8 <u>Notification of change</u>. Notification of change to DESC-ECS shall be required in accordance with MIL-STD-883 (see 3.1 herein).
- 3.9 <u>Verification and review</u>. DESC, DESC'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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CASE_L

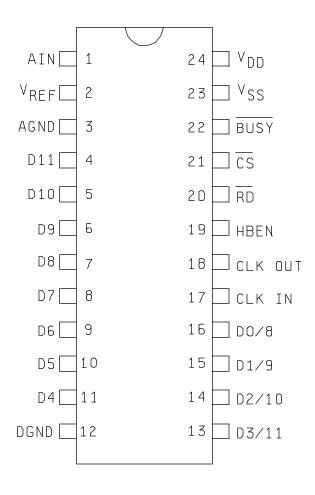


FIGURE 1. Terminal connections.

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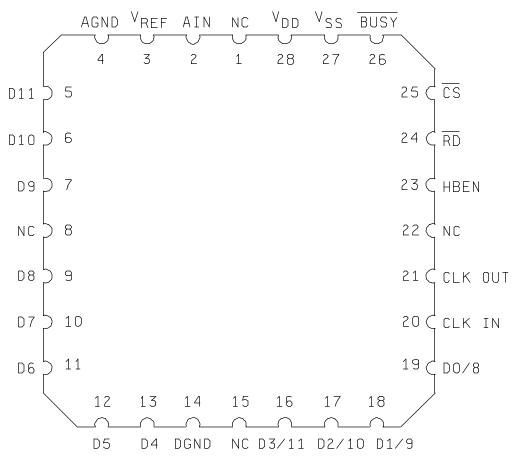


FIGURE 1. <u>Terminal connections</u> - Continued.

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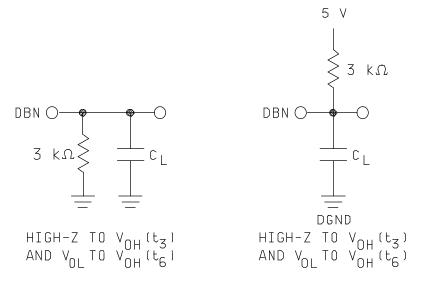


FIGURE 2. Load circuit for access time.

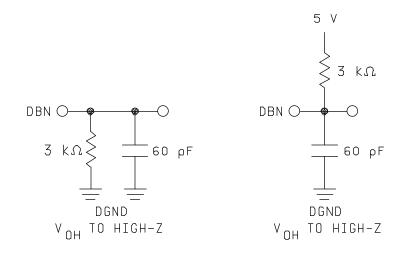


FIGURE 3. Load circuit for bus relinquish time.

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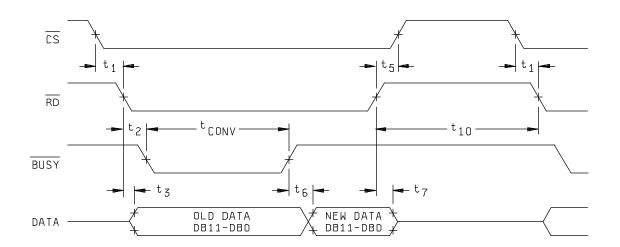


FIGURE 4. Slow memory mode, parallel read timing diagram.

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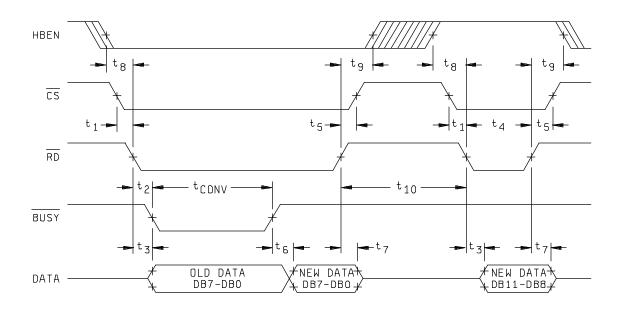


FIGURE 5. Slow memory mode, two byte read timing diagrams.

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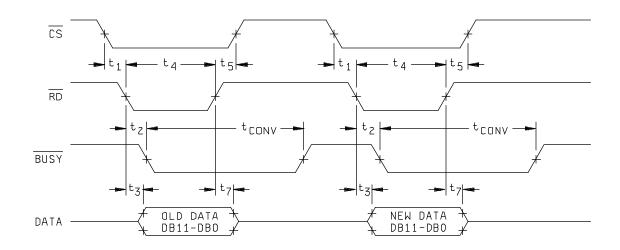


FIGURE 6. Rom mode, parallel read data bus timing diagrams.

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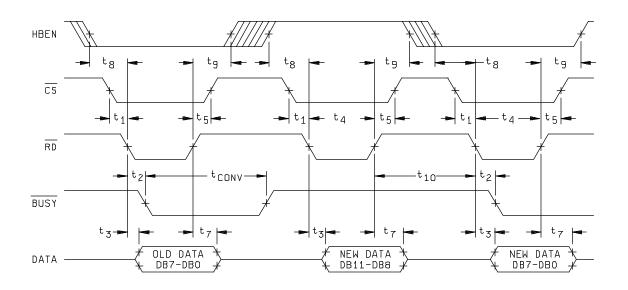


FIGURE 7. Rom mode, two byte read timing diagrams.

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4. QUALITY ASSURANCE PROVISIONS

- 4.1 <u>Sampling and inspection</u>. Sampling and inspection procedures shall be in accordance with section 4 of MIL-M-38510 to the extent specified in MIL-STD-883 (see 3.1 herein).
- 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 or B using the circuit submitted with the certificate of compliance (see 3.6 herein).
 - (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. Special subgroup 12 (as referenced in table I) added for grading and selection tests at +25°C 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 4, 5, 6, 7, and 8 in table I, method 5005 of MIL-STD-883, shall be omitted.
- c. Special subgroup 12 (as referenced in table I) added for grading and selection tests 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 A or B using the circuit submitted with the certificate of compliance (see 3.6 herein).
 - (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 (per method 5005, table I)
Interim electrical parameters (method 5004)	1
Final electrical test parameters (method 5004)	1*, 2, 3, 9, 10, 11, 12
Group A test requirements (method 5005)	1, 2, 3, 9, 10, 11, 12, 13**, 14**, 15**
Groups C and D end-point electrical parameters (method 5005)	1, 12

- * PDA applies to subgroup 1.
- ** Special subgroups 13, 14, and 15 shall be measured only for initial test and after process or design changes and shall be guaranteed to the limits specified in table I. Subgroup 13 is +25°C, 14 is +125°C, and 15 is -55°C.
- 5. PACKAGING
- 5.1 Packaging requirements. The requirements for packaging shall be in accordance with MIL-M-38510.
- 6. NOTES
- 6.1 <u>Intended use</u>. Microcircuits conforming to this drawing are intended for use when military specifications do not exist and qualified military devices that will perform the required function are not available for OEM application. When a military specification exists and the product covered by this drawing has been qualified for listing on QPL-38510, the device specified herein will be inactivated and will not be used for new design. The QPL-38510 product shall be the preferred item for all applications.
- 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 individual documents. This coordination will be accomplished in accordance with MIL-STD-481 using DD Form 1693, Engineering Change Proposal (Short Form).
- 6.4 Record of users. Military and industrial users shall inform Defense Electronics Supply Center when a system application requires configuration control and the applicable SMD. DESC 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 DESC-ECS, telephone (513) 296-6022.
- 6.5 <u>Comments</u>. Comments on this drawing should be directed to DESC-ECS, Dayton, Ohio 5444, or telephone (513) 296-5375.

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6.6 <u>Approved sources of supply.</u> An approved source is listed in MIL-BUL-103. Additional sources will be added to MIL-BUL-103 as they become available. The vendor listed in MIL-BUL-103 has agreed to this drawing and a certificate of compliance (see 3.6 herein) has been submitted to and accepted by DESC-ECS. The approved source of supply listed below is for information purposes only and is current only to the date of the last action of this document.

Military drawing part number	Vendor CAGE number	Vendor similar part number <u>1</u> /	
5962-8759101LX	24355	AD7572SQ12/883B	
5962-87591013X	24355	AD7572SE12/883B	
5962-8759102LX	24355	AD7572TQ12/883B	
5962-87591023X	24355	AD7572TE12/883B	
5962-8759103LX	24355	AD7572UQ12/883B	
5962-87591033X	24355	AD7572UE12/883B	
5962-8759104LX	24355	AD7572SQ05/883B	
5962-87591043X	24355	AD7572SE05/883B	
5962-8759105LX	24355	AD7572TQ05/883B	
5962-87591053X	24355	AD7572TE05/883B	
5962-8759106LX	24355	AD7572UQ05/883B	
5962-87591063X	24355	AD7572UE05/883B	

^{1/} Caution. Do not use this number for item acquisition. Items acquired to this number may not satisfy the performance requirements of this drawing.

STANDARDIZED MILITARY DRAWING	SIZE A		5962-87591
DEFENSE ELECTRONICS SUPPLY CENTER DAYTON, OHIO 45444		REVISION LEVEL A	SHEET 16

Vendor CAGE number

24355

Vendor name and address

Analog Devices Route 1 Industrial Park P.O. Box 9106 Norwood, MA 02062

Point of contact:: 804 Woburn Street

Wilmington, MA 01887

STANDARDIZED MILITARY DRAWING	SIZE A		5962-87591
DEFENSE ELECTRONICS SUPPLY CENTER DAYTON, OHIO 45444		REVISION LEVEL A	SHEET 17