				REVISIONS																
			Ľ	TR	DESCRIPTIC			ION DA			ATE		APPROVED							
Prepared	in accord	dance wit	h ASME Y1	4.24												Ve	ndor i	tem dr	awing	
REV																				
PAGE																				
REV																				
PAGE																				
REV STA	TUS	REV																		
OF PAGE	ES	PAG	Έ	1	2	3	4	5	6	7	8	9	10	11	12	13				
PMIC N/A	4		PREPARI	ED BY		Naus						~	DLA			MAR				
				F	-nu H.	inguy	-11			COLUMBUS, OHIO 43218-3990 http://www.landandmaritime.dla.m			. <u>mil</u> /							
Original d	late of dra	awing	CHECKE	D BY						ТІТ	LE									
۲۱	Y MM DD			F	Phu H.	Nguy	en			MIC	ROC	IRCI	JIT,	DIGI	TAL-	LINE	AR,	СМО	S,	
1	2-10-23		APPROV	ED BY	nomas	M. He	ess				MHz	z, TR		i, 10	-BIT	HIGH	I SPE	EED	VIDE	0
			0.75	00-						DAG		UNU		10 2		<b>N</b>				
			SIZE		IDE IDE	NI. N 16'	U.			DWC	NO. و		١	เยว	112	62	7			
			A			10/	200						١	02	./   2	.03	1			
			REV							PAG	<b>E</b> 1	OF	13							

# 1. SCOPE

1.1 <u>Scope</u>. This drawing documents the general requirements of a high performance CMOS, 170 MHz, triple, 10-bit high speed video DAC, microcircuit, with an operating temperature range of -55°C to +105°C.

1.2 <u>Vendor Item Drawing Administrative Control Number</u>. The manufacturer's PIN is the item of identification. The vendor item drawing establishes an administrative control number for identifying the item on the engineering documentation:

	V62/1263 Drawing number	07     -     01	Case outline (See 1.2.2)	Lead finish (See 1.2.3)	
1.2.1	Device type(s).				
	Device type	Generic	<u>(</u>	Circuit function	
	01	ADV7123-EP	CMOS, 170	MHz, triple, 10-bit high spe	ed video DAC
1.2.2	Case outline(s). T	he case outlines are as specified herein.			

Outline letter	<u>Number of pins</u>	JEDEC PUB 95	Package style
х	10	JEDEC MO-220-WKKD	Lead Frame Chip Scale Package

1.2.3 Lead finishes. The lead finishes are as specified below or other lead finishes as provided by the device manufacturer:

Finish designator	Material
A	Hot solder dip
B	Tin-lead plate
C	Gold plate
D	Palladium
E	Gold flash palladium
Z	Other

DLA LAND AND MARITIME	SIZE	CODE IDENT NO.	DWG NO. <b>V62/12637</b>		
COLUMBUS, OHIO	A	16236			
		REV	PAGE 2		

### 1.3 Absolute maximum ratings. 1/ 2/

V <sub>AA</sub> to GND	+7.0 V
Voltage on any digital pin	$GND - 0.5 V$ to $V_{AA} + 0.5 V$
Iout to GND	0 V to V <sub>AA</sub> <u>2/</u>
Ambient operating temperature (T <sub>A</sub> )	-55°C to +105°C
Storage temperature (T <sub>S</sub> )	-65°C to 150°C
Junction temperature (T <sub>J</sub> )	150°C
Lead temperature, (Soldering, 10 sec)	300°C
Vapor phase Soldering (1 minute)	220°C

### 2. APPLICABLE DOCUMENTS

## JEDEC - SOLID STATE TECHNOLOGY ASSOCIATION (JEDEC)

JEP95 – Registered and Standard Outlines for Semiconductor Devices

(Copies of these documents are available online at http://www.jedec.org or from JEDEC – Solid State Technology Association, 3103 North 10th Street, Suite 240–S, Arlington, VA 22201.)

#### 3. REQUIREMENTS

3.1 <u>Marking</u>. Parts shall be permanently and legibly marked with the manufacturer's part number as shown in 6.3 herein and as follows:

- A. Manufacturer's name, CAGE code, or logo
- B. Pin 1 identifier
- C. ESDS identification (optional)

3.2 <u>Unit container</u>. The unit container shall be marked with the manufacturer's part number and with items A and C (if applicable) above.

3.3 <u>Electrical characteristics</u>. The maximum and recommended operating conditions and electrical performance characteristics are as specified in 1.3 and table I herein.

3.4 Design, construction, and physical dimension. The design, construction, and physical dimensions are as specified herein.

- 3.5 Diagrams.
- 3.5.1 <u>Case outline</u>. The case outline shall be as shown in 1.2.2 and figure 1.
- 3.5.2 <u>Terminal connections</u>. The terminal connections shall be as shown in figure 2.
- 3.5.3 <u>Terminal function</u>. The terminal function shall be as shown in figure 3.
- 3.5.4 <u>Functional block diagram</u>. The functional block diagram shall be as shown in figure 4.
- 3.5.5 <u>Timing diagram</u>. The timing diagram shall be as shown in figure 5.

<sup>2/</sup> Analog outputs short circuit to any power supply or common GND can be of an indefinite duration.

DLA LAND AND MARITIME	SIZE	CODE IDENT NO.	DWG NO.	
COLUMBUS, OHIO	A	16236	V62/12637	
		REV	PAGE 3	

<sup>&</sup>lt;u>1</u>/ Stresses beyond those listed under "absolute maximum ratings" may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated under "recommended operating conditions" is not implied. Exposure to absolute maximum rated conditions for extended periods may affect device reliability.

TABLE I. Electrical performance characteristics. 1	1/
--	----

Test	Symbol	Test conditions		Limits	Unit	
		<u>2</u> /	Min	Тур		Max
Static performance	•	·			•	
Resolution (Each DAC)		R <sub>SET</sub> = 680 Ω			10	Bits
Integral nonlinearity (BSL)			-1	+0.5	+1	LSB
Differential nonlinearity			-1	+0.25	+1	
Digital and control inputs						
Input high voltage	VIH		2.0			V
Input low voltage	VIL			0.8		
Input current	I <sub>IN</sub>		-1		+1	μA
PSAVE pull up current				20		
Input capacitance	CIN			10		pF
Analog outputs						
		Green DAC, $\overline{\text{SYNC}}$ = high	2.0		26.5	mA
Output current		RGB DAC, $\overline{\text{SYNC}} = \text{low}$	2.0		18.5	
DAC to DAC matching				1.0		%
Output compliance Range	V <sub>oc</sub>		0		1.4	V
Output impedance	Rout			70		kΩ
Output capacitance	Соит			10		pF
Offset error		Tested with DAC output = 0 V		0	0	%FSR
Gain error <u>4</u> /		FSR = 17.62 mA		0		
Voltage reference, external						
Reference range	V <sub>REF</sub>		1.12	1.235	1.35	V
Voltage reference, internal						
Reference range	V <sub>REF</sub>			1.235		V
Power dissipation						
		f <sub>CLK</sub> = 50 MHz		2.2	5.0	mA
Digital supply current <u>5</u> /		f <sub>CLK</sub> = 140 MHz		6.5	12.0	
		f <sub>CLK</sub> = 517 MHz		7.5	13.5	
Analog supply current		R <sub>SET</sub> = 680 Ω		67	72	
		R <sub>SET</sub> = 680 Ω		8		
Standby supply current		$\overline{\text{PSAVE}}$ = low, digital and control inputs at V <sub>DD</sub>		2.1	5.0	
Power supply rejection ratio				0.1	0.5	%/%

See footnote at end of table.

DLA LAND AND MARITIME COLUMBUS, OHIO	SIZE CODE IDENT NO. A 16236		DWG NO. <b>V62/12637</b>	
		REV	PAGE 4	

Test	Symbol	Test conditions	Limits			Unit
		<u>6</u> /	Min	Тур	Max	
 סיב	YNAMIC SPE	ECIFICATIONS				
AC LINEARITY <u>3/</u>						
Spurious free Dynamic Range to Nyquist 7/						
Single ended output						
$f_{CLK} = 50 \text{ MHz}, f_{OUT} = 1.00 \text{ MHz}$				67		dBc
$f_{CLK} = 50 \text{ MHz}, f_{OUT} = 2.51 \text{ MHz}$				67		
$f_{CLK} = 50 \text{ MHz}, f_{OUT} = 5.04 \text{ MHz}$				63		
$f_{CLK} = 50 \text{ MHz}, f_{OUT} = 20.2 \text{ MHz}$				55		
$f_{CLK} = 100 \text{ MHz}, f_{OUT} = 2.51 \text{ MHz}$				62		
$f_{CLK}$ = 100 MHz, $f_{OUT}$ = 5.04 MHz				60		
$f_{CLK}$ = 100 MHz, $f_{OUT}$ = 20.2 MHz				54		
$f_{CLK}$ = 100 MHz, $f_{OUT}$ = 40.4 MHz				48		
$f_{CLK}$ = 140 MHz, $f_{OUT}$ = 2.51 MHz				57		
$f_{CLK}$ = 140 MHz, $f_{OUT}$ = 5.04 MHz				58		
$f_{CLK}$ = 140 MHz, $f_{OUT}$ = 20.2 MHz				52		
$f_{CLK} = 140 \text{ MHz}, f_{OUT} = 40.4 \text{ MHz}$				41		
Double ended output						
$f_{CLK} = 50 \text{ MHz}, f_{OUT} = 1.00 \text{ MHz}$				70		dBc
$f_{CLK} = 50 \text{ MHz}, f_{OUT} = 2.51 \text{ MHz}$				70		
$f_{CLK} = 50 \text{ MHz}, f_{OUT} = 5.04 \text{ MHz}$				65		
$f_{CLK} = 50 \text{ MHz}, f_{OUT} = 20.2 \text{ MHz}$				54		
$f_{CLK}$ = 100 MHz, $f_{OUT}$ = 2.51 MHz				67		
$f_{CLK}$ = 100 MHz, $f_{OUT}$ = 5.04 MHz				63		
$f_{CLK}$ = 100 MHz, $f_{OUT}$ = 20.2 MHz				58		
$f_{CLK}$ = 100 MHz, $f_{OUT}$ = 40.4 MHz				52		
$f_{CLK}$ = 140 MHz, $f_{OUT}$ = 2.51 MHz				62		
$f_{CLK}$ = 140 MHz, $f_{OUT}$ = 5.04 MHz				61		
$f_{CLK} = 140 \text{ MHz}, f_{OUT} = 20.2 \text{ MHz}$				55		
$f_{CLK} = 140 \text{ MHz}, f_{OUT} = 40.4 \text{ MHz}$				53		
Spurious free Dynamic Range within a window	· · · · ·		1		1	1
Single ended output						
$f_{CLK} = 50 \text{ MHz}, f_{OUT} = 1.00 \text{ MHz}; 1 \text{ MHz Span}$				77		dBc
$f_{CLK} = 50 \text{ MHz}, f_{OUT} = 5.04 \text{ MHz}; 2 \text{ MHz Span}$				73		
$f_{CLK}$ = 140 MHz, $f_{OUT}$ = 5.04 MHz; 4 MHz Span				64		
Double ended output						
$f_{CLK} = 50 \text{ MHz}, f_{OUT} = 1.00 \text{ MHz}; 1 \text{ MHz Span}$				74		dBc
$f_{CLK} = 50 \text{ MHz}, f_{OUT} = 5.04 \text{ MHz}; 2 \text{ MHz Span}$				73		
$f_{CLK}$ = 140 MHz, $f_{OUT}$ = 5.04 MHz; 4 MHz Span				60		

TABLE I. Electrical performance characteristics - Continued. 1/

See footnote at end of table.

DLA LAND AND MARITIME	SIZE	CODE IDENT NO.	DWG NO. <b>V62/12637</b>	
COLUMBUS, OHIO	A	<b>16236</b>		
		REV	PAGE 5	

# TABLE I. Electrical performance characteristics - Continued. 1/

Test	Symbol	Test conditions	Limits		Unit			
		<u>6</u> /	Min	Тур	Max			
	DYNAMIC S	SPECIFICATIONS – Continued.						
AC LINEARITY – Continued. <u>3/</u> Total harmonic distortion	AC LINEARITY – Continued. <u>3/</u> Total harmonic distortion							
$f_{CLK} = 50 \text{ MHz}, f_{OUT} = 1.00 \text{ MHz}$								
$T_A = 25^{\circ}C$				66		dBc		
-55°C ≤ T <sub>A</sub> ≤ +105°C				65				
$f_{CLK} = 50 \text{ MHz}, f_{OUT} = 2.00 \text{ MHz}$				64				
$f_{CLK}$ = 100 MHz, $f_{OUT}$ = 2.00 MHz				64				
$f_{CLK}$ = 140 MHz, $f_{OUT}$ = 2.00 MHz				55				
DAC performance	DAC performance							
Glitsh impulse				10		pV-sec		
DAC to DAC crosstalk <u>8</u> /				23		dB		
Data feedthrough <u>9</u> / <u>10</u> /				22		dB		
Clock feddthrough <u>9/ 10/</u>				33		dB		

See footnote at end of table.

DLA LAND AND MARITIME	SIZE	CODE IDENT NO.	DWG NO.
COLUMBUS, OHIO	A	<b>16236</b>	<b>V62/12637</b>
		REV	PAGE 6

TABLE I. <u>Lieutitai periornance characteristics</u> - Continueu. <u>I</u>	TABLE I.	Electrical	performance characteristics	- Continued.	1/
---	----------	------------	-----------------------------	--------------	----

Test	Symbol	Test conditions	Limits			Unit	
		<u>2</u> /	Min	Тур	Max		
	TIMING	SPECIFICATIONS <u>3</u> / <u>11</u> /					
Analog outputs							
Analog output delay	t <sub>6</sub>			7.5		ns	
Analog output Rise/Fall time <u>12</u> /	t <sub>7</sub>			1.0			
Analog output transition time <u>13</u> /	t <sub>8</sub>			15			
Analog output skew <u>14</u>	t <sub>9</sub>			1	2		
Clock control							
Clock frequency <u>15</u> /	f <sub>CLK</sub>				170	MHz	
Data and control setup	t <sub>1</sub>		0.68			ns	
Data and control hold	t <sub>2</sub>		2.9				
Clock period	t <sub>3</sub>		5.88				
Clock pulse width high <u>14</u> /	t <sub>4</sub>	$f_{CLK_MAX} = 170 \text{ MHz}$	2.6				
Clock pulse width low <u>14</u> /	t <sub>5</sub>	$f_{CLK_MAX} = 170 \text{ MHz}$	2.6				
Pipeline delay <u>14</u> /	t <sub>PD</sub>		1.0	1.0	1.0	Clock cycles	
PSAVE up time <u>14</u> /	t <sub>10</sub>			4	10	ns	

1/ Testing and other quality control techniques are used to the extent deemed necessary to assure product performance over the specified temperature range. Product may not necessarily be tested across the full temperature range and all parameters may not necessarily be tested. In the absence of specific parametric testing, product performance is assured by characterization and/or design.

 $V_{AA} = 3.0 \text{ V to } 3.6 \text{ V}, \text{ } V_{REF} = 1.235 \text{ V}, \text{ } R_{SET} = 560 \text{ } \Omega, \text{ } C_L = 10 \text{ } \text{pF}, -55^{\circ}\text{C} \leq T_A \leq +105^{\circ}\text{C}, \text{ } \text{unless otherwise noted}; \text{ } T_{J \text{ } MAX} = 110^{\circ}\text{C}.$ 

<u>2/</u> <u>3/</u> These maximum/minimum specifications are guaranteed by characterization over the 3.0 V to 3.6 V range.

Gain error = {Measured (FSC)/Ideal (FSC) - 1) X 100}, where ideal (FSC) = V<sub>REF</sub>/R<sub>SET</sub> X K X (0x3FFH) and K = 7.9896. 4/

5/ Digital supply is measured with a continuous clock that has data input corresponding to a ramp pattern and with an input level at 0 V and V<sub>DD</sub>.

6/  $V_{AA} = 3.0 \text{ V}$  to 3.6 V,  $V_{REF} = 1.235 \text{ V}$ ,  $R_{SET} = 680 \Omega$ ,  $C_L = 10 \text{ pF}$ . All specifications are at  $T_A = 25^{\circ}\text{C}$ , unless otherwise noted;  $T_{.1MAX} = 110^{\circ}C.$ 

This device exhibits high performance when operating with an internal voltage reference,  $V_{REF}$ . 7/

8/ DAC to DAC crosstalk measured by holding one DAC high while the other two DAC are making low to high and high to low transactions.

<u>9</u>/ Clock and data feedthrough is a function of the amount of overshoot and undershoot on the digital inputs. Glitch impulse includes clock and data feedthrough.

10/ TTL input values are 0 V to 3 V, with input rise/Fall times of 3 ns, measured at the 10% and 90% points. Timing reference points are 50% for inputs and outputs.

Timing specifications are measured with input levels of 3.0 V ( $V_{II}$ ) and 0 V ( $V_{IL}$ ). 11/

Rise time was measured from the 10% and 90% point of zero full scale transition, fall time from 90% to 10% point of a full scale 12/ transition.

<u>13</u>/ Measured from the 50% point of full scale transition to within 2% of the final output value.

14/ Guaranteed by characterization.

15/ f<sub>CLK</sub> maximum specification production tested at 125 MHz.

DLA LAND AND MARITIME	SIZE	CODE IDENT NO.	DWG NO.	
COLUMBUS, OHIO	A	16236	<b>V62/12637</b>	
		REV	PAGE 7	



Case X

Dimensions							
Symbol	Millimeters		Symbol	Milli	meters		
	Min	Max		Min	Max		
А	0.70	0.80	D1/E1	3.95	4.25		
A1	0.20	REF	е	0.50 BSC			
A2		0.05	L1	0.35	0.45		
b	0.18	0.30	L2	0.25			
D/E	7.00	BSC					

# NOTES:

All linear dimensions are in millimeters.
Falls within JEDEC MO-220-WKKD.

FIGURE 1. Case outline.

DLA LAND AND MARITIME	SIZE	CODE IDENT NO.	DWG NO.
COLUMBUS, OHIO	A	<b>16236</b>	V62/12637
		REV	PAGE 8

Terminal number	Terminal symbol	Terminal number	Terminal symbol
1	G0	25	GND
2	G1	26	GND
3	G2	27	ĪOB
4	G3	28	IOB
5	G4	29	V <sub>AA</sub>
6	G5	30	V <sub>AA</sub>
7	G6	31	ĪOG
8	G7	32	IOG
9	G8	33	IOR
10	G9	34	IOG
11	BLANK	35	COMP
12	SYNC	36	V <sub>REF</sub>
13	V <sub>AA</sub>	37	R <sub>SET</sub>
14	B0	38	PSAVE
15	B1	39	R0
16	B2	40	R1
17	B3	41	R2
18	B4	42	R3
19	B5	43	R4
20	B6	44	R5
21	B7	45	R6
22	B8	46	R7
23	B9	47	R8
24	CLOCK	48	R9

Case of	outline	Х
---------	---------	---

FIGURE 2. Terminal connections.

DLA LAND AND MARITIME	SIZE	CODE IDENT NO.	DWG NO.
COLUMBUS, OHIO	A	16236	V62/12637
		REV	PAGE 9

# Case outline X.

Те	rminal	Description
Number	Mnemonic	
1 to 10	IN1	Red, Green, and Blue pixel data inputs (TTL compatible). Pixel data is latched on the rising edge of clock.
14 to 23	D1	R0, G0, and B0 are the least significant data bits. Unused pixel data inputs should be connected to either
39 to 48	S1	the regular printed circuit board (PCB) power or ground plate.
11	BLANK	Composite Blank Control input (TTL compatible). A logic 0 on this control input drives the analog outputs – IOR, IOB, and IOG – to the blanking level. The BLANK signal is latched on the rising edge of CLOCK. When BLANK is a logic 0, the R0 to R9, G0 to G9, and B0 to B9 pixel inputs are ignored.
12	SYNC	Composite Sync Control input (TTL compatible). A logic 0 on the <u>SYNC</u> input switches off a 40 IRE current source. The sync current is internally connected to the IOG analog output. <u>SYNC</u> does not override any other control or data input; therefore, it should only be asserted during the blanking interval. <u>SYNC</u> is latched on the rising edge of CLOCK. If sync information is not required on the green channel, the <u>SYNC</u> input should be tied to logic 0.
13, 29, 30	V <sub>AA</sub>	Analog Power supply (3.3 V ±10%). All V <sub>AA</sub> pins on this device must be connected.
24	CLOCK	Clock Input (TTL compatible). The rising edge of CLOCK latched at the R0 to R9, G0 to G9, B0 to B9. <u>SYNC</u> , and <u>BLANK</u> pixel and control inputs. Typically, the CLOCK input is the pixel clock rate of the video system. CLOCK should be driven by a dedicated TTL buffer.
25, 26	GND	Ground. The GND pins must be connected.
27, 31, 33	IOB, IOG, IOR	Differential Red, Green, and Blue current outputs (High impedance current sources). These RGB video outputs are specified to directly drive RS-343A and RS-170 video levels into a doubly terminated 75 $\Omega$ coaxial cable. If the complementary outputs are not required, these outputs should be tie to ground.
28, 32, 34	IOB, IOG, IOR	Red, Green and Blue current outputs (High impedance current sources) . These RGB video outputs are specified to specified to directly drive RS-343A and RS-170 video levels into a doubly terminated 75 $\Omega$ coaxial cable. All three currents outputs should have similar output loads whether or not they are all being used.
35	COMP	Compensation pin for the Internal Reference Amplifier. A 0.1 $\mu$ F ceramic capacitor must e connected between COMP and V <sub>AA</sub> .
36	$V_{REF}$	Voltage Reference Input for DACs or Voltage Reference Output (1.235 V). The $V_{REF}$ pin is normally terminated to $V_{AA}$ through a 0.1 $\mu$ F capacitor. However, this device can be overdriven by an external 1.23 V reference (AD1580), if required.
37	R <sub>SET</sub>	A resistor ( $R_{SET}$ ) connected between this pin and GND controls the magnitude of the full scale video signal. Note that the IRE relationships are maintained, regardless of the full scale output current. For nominal video levels into a doubly terminated 75 $\Omega$ load, $R_{SET} = 530 \Omega$ .
		The relationship between $R_{SET}$ and the full scale output current on IOG (assuming $I_{SYNC}$ is connected to IOG) is given by:
		$R_{SET} (\Omega) = 11,445 \text{ X V}_{REF} (V)/IOG (mA)$
		The relationship between $R_{SET}$ and the full scale output current on IOR, IOG and IOB is given by:
		IOG (mA) = 11,445 X V <sub>REF</sub> (V)/RSET ( $\Omega$ ) (SYNC being asserted)
		IOR, IOB (mA) = 7989.6 X $V_{REF}$ (V)/ $R_{SET}$ ( $\Omega$ )
		The equation for IOG is the same as that for IOR and IOB when <u>SYNC</u> is not being used, that is, <u>SYNC</u> is tied permanently low.
38	PSAVE	Power Save Control pin. Reduce power consumption is available on this device when this pin is active.
EP	Exposed Pad	The exposed paddle on the underside of the package must be soldered to the ground plane to increase the reliability of the solder joints and to the maximize the thermal capability of the package.

FIGURE 3. Terminal function.

DLA LAND AND MARITIME	SIZE	CODE IDENT NO.	DWG NO.
COLUMBUS, OHIO	A	16236	V62/12637
		REV	PAGE 10



FIGURE 4. Functional block diagram.

DLA LAND AND MARITIME	SIZE	CODE IDENT NO.	DWG NO.
COLUMBUS, OHIO	A	16236	V62/12637
		REV	PAGE 11



NOTES:

- Output delay (t<sub>6</sub>) measured from the 50% point of the rising edge of clock to the 50% point of full scale transition. 1.
- 2.
- Output Rise/Fall time ( $t_7$ ) measured between the 10% and 90% points of full scale transition. Transition time ( $t_8$ ) measured from the 50% point of full scale transition to within 2% of the final output value. 3.

FIGURE 5. Timing diagram.

DLA LAND AND MARITIME	SIZE	CODE IDENT NO.	DWG NO.
COLUMBUS, OHIO	A	16236	V62/12637
		REV	PAGE 12

#### 4. VERIFICATION

4.1 <u>Product assurance requirements</u>. The manufacturer is responsible for performing all inspection and test requirements as indicated in their internal documentation. Such procedures should include proper handling of electrostatic sensitive devices, classification, packaging, and labeling of moisture sensitive devices, as applicable.

### 5. PREPARATION FOR DELIVERY

5.1 <u>Packaging</u>. Preservation, packaging, labeling, and marking shall be in accordance with the manufacturer's standard commercial practices for electrostatic discharge sensitive devices.

#### 6. NOTES

6.1 ESDS. Devices are electrostatic discharge sensitive and are classified as ESDS class 1 minimum.

6.2 <u>Configuration control</u>. The data contained herein is based on the salient characteristics of the device manufacturer's data book. The device manufacturer reserves the right to make changes without notice. This drawing will be modified as changes are provided.

6.3 <u>Suggested source(s) of supply</u>. Identification of the suggested source(s) of supply herein is not to be construed as a guarantee of present or continued availability as a source of supply for the item. DLA Land and Maritime maintains an online database of all current sources of supply at <u>http://www.landandmaritime.dla.mil/Programs/Smcr/</u>.

Vendor item drawing administrative control number <u>1</u> /	Device manufacturer CAGE code	Vendor part number
V62/12637-01XB	24355	ADV7123SCP170EP-RL

<u>1</u>/ The vendor item drawing establishes an administrative control number for identifying the item on the engineering documentation.

#### CAGE code

24355

Source of supply

Analog Devices 1 Technology Way P.O. Box 9106 Norwood, MA 02062-9106

DLA LAND AND MARITIME	SIZE	CODE IDENT NO.	DWG NO.
COLUMBUS, OHIO	A	<b>16236</b>	V62/12637
		REV	PAGE 13