	REVISIONS							
LTR	DESCRIPTION	DATE	APPROVED					
А	Add device type 02 ro	04-07-08	R. MONNIN					
В	Make changes to Electrostatic discharge section as specified under 1.3 ro	05-03-04	R. MONNIN					
С	JEDEC package MS-012 has been updated to MS-012-AA along with dimensions b, c, and L. Add notes to Figure 1. Update document paragraphs to current requirements ro	19-04-10	C. SAFFLE					



CURRENT DESIGN ACTIVITY CAGE CODE 16236 HAS CHANGED NAMES TO: DLA LAND AND MARITIME COLUMBUS, OHIO 43218-3990

Prepared in accordance with ASME Y14.24 Vendor item drawing REV PAGE REV С С PAGE 18 19 REV С С С С С С С С С С С С С С С С С **REV STATUS** OF PAGES PAGE 2 3 4 5 7 17 1 6 8 9 10 11 12 13 14 15 16 PREPARED BY **DEFENSE SUPPLY CENTER COLUMBUS** PMIC N/A **RICK OFFICER** COLUMBUS, OHIO 43218-3990 Original date of drawing CHECKED BY TITLE YY-MM-DD TOM HESS MICROCIRCUIT, DIGITAL-LINEAR, APPROVED BY 03-08-21 DIFFERENTIAL BUS TRANSCEIVER, **RAYMOND MONNIN** MONOLITHIC SILICON SIZE CODE IDENT. NO. DWG NO. V62/03671 16236 Α REV С **PAGE** 1 **OF** 19

AMSC N/A

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landar itam drawing

## 1. SCOPE

1.1 <u>Scope</u>. This drawing documents the general requirements of a high performance differential bus transceiver microcircuit, with an operating temperature range of -40°C to +125°C for device type 01 and -55°C to +125°C for device type 02.

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:

	V62/03671 Drawing number	- <u>01</u> Device type (See 1.2.1)	Case outline (See 1.2.2)	Lead finish (See 1.2.3)
1.2.1 <u>Device</u>	<u>e type(s)</u> .			
	Device type	Generic		Circuit function
	01 02	SN65LBC176AQ-EP SN65LBC176AM-EP	1	Differential bus transceiver Differential bus transceiver
1000				

1.2.2 <u>Case outline(s)</u>. The case outline(s) are as specified herein.

Outline letter	Number of pins	JEDEC PUB 95	Package style
Х	8	MS-012	Plastic small outline

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

Finish designator	<u>Material</u>
A B	Hot solder dip Tin-lead plate
С	Gold plate
D	Palladium
E	Gold flash palladium
F	Tin-lead alloy (BGA/CGA)
Z	Other

DEFENSE SUPPLY CENTER, COLUMBUS	SIZE	CODE IDENT NO.	DWG NO. V62/03671	
COLUMBUS, OHIO	A	16236		
		REV C	PAGE 2	

### 1.3 Absolute maximum ratings. 1/

Supply voltage range (VCC) Voltage range at any bus terminal (A or B)	-0.3 V to 6 V <u>2</u> / -10 V to 15 V
Input voltage, (VI) (D, DE, R, or RE)	-0.3 V to Vcc + 0.5 V
Electrostatic discharge:	
A, B bus terminals and GND	400 V <u>3</u> /
All A, B terminals	400 ∨ <u>3</u> /
Continuous total power dissipation (PD)	See dissipation rating table $\underline{4}/$
Storage temperature range (TSTG)	-65°C to 150°C
Lead temperature 1.6 mm (1/16 inch) from case for 10 seconds	260°C

### 1.4 Recommended operating conditions.

Supply voltage range (VCC)	. 4.75 V to 5.25 V
Voltage at any bus terminal (separately or common mode), (VI or VIC)	7 V minimum and 12 V maximum
High level input voltage (VIH) (output recessive) (D, DE, and $\overline{\text{RE}}$ )	. 2 V to VCC
Low level input voltage (VIL) (output dominant) (D, DE, and $\overline{RE}$ )	. 0 V to 0.8 V
Differential input voltage (VID)	12 V to 12 V <u>5</u> / <u>6</u> /
High level output current (IOH): Driver Receiver	60 mA minimum 8 mA minimum
Low level output current (IOL): Driver Receiver	. 60 mA maximum . 8 mA maximum
Operating free-air temperature range (TA) : Device type 01 Device type 02	40°C to +125°C 55°C to +125°C

Case	$T_A \le 25^\circ C$	Derating factor <u>7</u> /	TA = 70°C	TA = 85°C	TA = 125°C
outline	Power rating	Above TA = 25°C	Power rating	Power rating	Power rating
Х	725 mW	5.8 mW/°C	464 mW	377 mW	145 mW

- <u>5</u>/ The algebraic convention, in which the least positive (most negative) limit is designed as minimum, is used in this data sheet.
- <u>6/</u> <u>7/</u> Differential input/output bus voltage is measured at the noninverting terminal A with respect to the inverting terminal B.

This is the inverse junction-to-ambient thermal resistance when the board is mounted and with no air flow.

DEFENSE SUPPLY CENTER, COLUMBUS	SIZE	CODE IDENT NO	). DWG NO. <b>V62/03671</b>
COLUMBUS, OHIO	A	16236	
		REV C	PAGE 3

<sup>1/</sup> Stresses beyond those listed under "absolute maximum rating" 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.

All voltage values, except differential I/O bus voltage, are with respect to network ground terminal. <u>2</u>/

<sup>&</sup>lt;u>3</u>/ Tested in accordance with MIL-STD-883, test method 3015 (human body model).

<sup>4/</sup> The maximum operating junction temperature is internally limited. Use the dissipation rating table to operate below this temperature.

## 2. APPLICABLE DOCUMENTS

JEDEC Solid State Technology Association

JEDEC PUB 95 - Registered and Standard Outlines for Semiconductor Devices

(Copies of these documents are available online at https://www.jedec.org.)

#### 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, 1.4, and table I herein.

3.4 <u>Design, construction, and physical dimension</u>. 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 Terminal connections. The terminal connections shall be as shown in figure 2.

3.5.3 Logic diagram. The logic diagram shall be as shown in figure 3.

3.5.4 Test circuits. The test circuits shall be as shown in figures 4 and 5.

3.5.5 Timing waveforms and test circuits. The timing waveforms and test circuits shall be as shown in figures 6, 7, and 8.

DEFENSE SUPPLY CENTER, COLUMBUS	SIZE	CODE IDENT NO.	DWG NO.	
COLUMBUS, OHIO	A	16236	<b>V62/03671</b>	
		REV C	PAGE 4	

Test	Symbol	Conditions <u>1</u> /	Temperature, T∆	Device type	Limits		Unit
					Min	Max	]
Driver electrical characte	ristics section						. <u>.</u>
Input clamp voltage	νικ	lı = -18 mA	-40°C to +125°C	01	-1.5		V
			-55°C to +125°C	02	-1.5		
Differential output voltage	Vod	IO = 0	-40°C to +125°C	01	1.5	6	V
		$R_L = 54 \Omega$ , see figure 4			0.9	6	]
		Vtest = -7 V to 12 V, see figure 5			0.9	6	]
		IO = 0	-55°C to +125°C	02	1.5	6	]
		R <sub>L</sub> = 54 Ω, see figure 4			0.9	6	]
		Vtest = -7 V to 12 V, see figure 5			0.9	6	1
Change in magnitude		See figure 4 and 5	-40°C to +125°C	01	-0.2	0.2	V
voltage			-55°C to +125°C	02	-0.2	0.2	
Steady state common	VOC(SS)	See figure 4	-40°C to +125°C	01	1.8	3	V
mode edipat voltage			-55°C to +125°C	02	1.8	3	]
Change in steady state	$\Delta VOC(SS)$	See figure 4	+25°C	01	-0.2	0.2	V
output voltage				02	-0.2	0.2	
High impedance output current	loz	See receiver input currents under paragraph 1.4	-40°C to +125°C	01			
			-55°C to +125°C	02			]
High level enable	Ін	VI = 2 V	-40°C to +125°C	01	-100		μA
input ourient			-55°C to +125°C	02	-100		]
Low level enable	lı∟	VI = 0.8 V	-40°C to +125°C	01	-100		μA
			-55°C to +125°C	02	-100		]

# TABLE I. Electrical performance characteristics.

DEFENSE SUPPLY CENTER, COLUMBUS	SIZE	CODE IDENT NO.	DWG NO.	
COLUMBUS, OHIO	A	16236	V62/03671	
		REV C	PAGE 5	

Test	Symbol	Conditions <u>1</u> /	Temperature, TA	Device type	Lin	nits	Unit
					Min	Max	
Driver electrical characte	ristics section	on – continued.					
Short circuit output current	los	$-7 \text{ V} \leq \text{Vo} \leq 12 \text{ V}$	-40°C to +125°C	01	-250	250	mA
			-55°C to +125°C	02	-250	250	
Supply current	ICC	VI = 0 or VCC, no load, receiver disabled and driver enabled	-40°C to +125°C	01		9	mA
		VI = 0 or VCC, no load, receiver disabled and driver disabled				0.7	
		VI = 0 or VCC, no load, receiver enabled and driver enabled				15	
		VI = 0 or V <sub>CC</sub> , no load, receiver disabled and driver enabled	-55°C to +125°C	02		9	
		VI = 0 or VCC, no load, receiver disabled and driver disabled				0.7	
		VI = 0 or VCC, no load, receiver enabled and driver enabled				15	
Driver switching characte	eristics secti	on					
Propagation delay time,	tPLH	RL = 54 Ω, CL = 50 pF,	-40°C to +125°C	01	2	12	ns
		see figure 6	-55°C to +125°C	02	2	12	
Propagation delay time,	tPHL	RL = 54 Ω, CL = 50 pF,	-40°C to +125°C	01	2	12	ns
		see figure 6	-55°C to +125°C	02	2	12	1
Pulse skew	tsk(p)	RL = 54 Ω, CL = 50 pF,	-40°C to +125°C	01		2	ns
( (TPLH – TPHL)		see figure 6	-55°C to +125°C	02		2	1

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

DEFENSE SUPPLY CENTER, COLUMBUS	SIZE	CODE IDENT NO.	DWG NO.
COLUMBUS, OHIO	A	16236	<b>V62/03671</b>
		REV C	PAGE 6

Test	Test Symbol Conditions <u>1</u> / Temperature, TA		Device type	Lin	nits	Unit	
			.,,		Min	Max	
Driver switching characteris	stics sectior	n – continued.					
Differential output	tr	RL = 54 Ω, CL = 50 pF,	-40°C to +125°C	01	1.2	11	ns
		see figure 6	-55°C to +125°C	02	1.2	11	
Differential output	tf	RL = 54 Ω, CL = 50 pF,	-40°C to +125°C	01	1.2	11	ns
olghar lan amo		see figure 6	-55°C to +125°C	02	1.2	11	
Propagation delay	tPZH	RL = 110 $\Omega$ , see figure 6	-40°C to +125°C	01		22	ns
to high level output			-55°C to +125°C	02		22	
Propagation delay	tPZL	RL = 110 $\Omega$ , see figure 6	-40°C to +125°C	01		25	ns
to low level output			-55°C to +125°C	02		25	
Propagation delay	tPHZ	$R_L = 110 \Omega$ , see figure 6	-40°C to +125°C	01		22	ns
high impedance output			-55°C to +125°C	02		22	
Propagation delay	tPLZ	RL = 110 $\Omega$ , see figure 6	-40°C to +125°C	01		22	ns
high impedance output			-55°C to +125°C	02		22	
Receiver electrical characte	eristics sect	ion					
Positive going input	VIT+	IO = -8 mA	-40°C to +125°C	01		0.2	V
			-55°C to +125°C	02		0.2	
Negative going input	VIT-	IO = 8 mA	-40°C to +125°C	01	-0.2		V
anoonola voltago			-55°C to +125°C	02	-0.2		
Hysteresis voltage	Vhys	IO = 8 mA, VCC = 5 V	25°C	01	50 ty	/pical	mV
(VII+-VII-)				02	50 ty	/pical	
Enable input clamp	VIK	lı = -18 mA	-40°C to +125°C	01	-1.5		V
			-55°C to +125°C	02	-1.5		

TABLE I.	Electrical	performance c	<u> - haracteristics</u>	continued
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DEFENSE SUPPLY CENTER, COLUMBUS	SIZE	CODE IDENT NO.	DWG NO.
COLUMBUS, OHIO	A	16236	<b>V62/03671</b>
		REV C	PAGE 7

Test	Symbol	Conditions <u>1</u> /	Temperature,	Device type	Lin	nits	Unit
					Min	Max	
Receiver electrical chara	cteristics se	ection - continued					
High level output	Vон	VID = 200 mV, IOH = -8 mA,	-40°C to +125°C	01	4		V
		see figure 7	-55°C to +125°C	02	4		
Low level output voltage	Vol	V <sub>ID</sub> = 200 mV, I <sub>OL</sub> = 8 mA,	-40°C to +125°C	01		0.8	V
0		see figure 7	-55°C to +125°C	02		0.8	
High impedance state output current	loz	VO = 0 to VCC	-40°C to +125°C	01	-10	10	μA
			-55°C to +125°C	02	-10	10	
Bus input current	li	VIH = 12 V, VCC = 5 V, other input at 0 V	-40°C to +125°C	01		1	mA
		VIH = 12 V, VCC = 0 V, other input at 0 V				1	
		VIH = -7 V, VCC = 5 V, other input at 0 V			-0.8		
		VIH = -7 V, VCC = 0 V, other input at 0 V			-0.8		
		VIH = 12 V, VCC = 5 V, other input at 0 V	-55°C to +125°C	02		1	_
		VIH = 12 V, VCC = 0 V, other input at 0 V				1	
		VIH = -7 V, VCC = 5 V, other input at 0 V			-0.8		
		VIH = -7 V, VCC = 0 V, other input at 0 V			-0.8		
High level enable	ІІН	VIH = 2 V	-40°C to +125°C	01	-100		μA
			-55°C to +125°C	02	-100		
Low level enable	ΙIL	VIL = 0.8 V	-40°C to +125°C	01	-100		μA
			-55°C to +125°C	02	-100		

# TABLE I. <u>Electrical performance characteristics</u> – continued.

DEFENSE SUPPLY CENTER, COLUMBUS	SIZE	CODE IDENT NO.	DWG NO.		
COLUMBUS, OHIO	A	16236	<b>V62/03671</b>		
		REV C	PAGE 8		

Test	Symbol	Symbol Conditions <u>1</u> /		Device type	Limits		Unit
			.,,	-	Min	Max	
Receiver electrical chara	cteristics se	ection - continued	•				
Supply current	ICC	VI 0 or VCC, no load, receiver enabled and driver disabled	-40°C to +125°C	01		7	mA
		VI 0 or VCC, no load, receiver disabled and driver disabled				0.7	
		VI 0 or VCC, no load, receiver enabled				15	
		VI 0 or VCC, no load, receiver enabled and driver disabled	-55°C to +125°C	02		7	
		VI 0 or VCC, no load, receiver disabled and driver disabled				0.7	
		VI 0 or VCC, no load, receiver enabled				15	
Receiver switching chara	acteristics se	ection					
Propagation delay time, output ↑	tPLH	VID = -1.5 V to 1.5 V, see figure 8	-40°C to +125°C	01	7	30	ns
			-55°C to +125°C	02	7	30	
Propagation delay time,	tPHL	VID = -1.5 V to 1.5 V, see figure 8	-40°C to +125°C	01	7	30	ns
			-55°C to +125°C	02	7	30	
Pulse skew	tsk(p)	VID = -1.5 V to 1.5 V, see figure 8	-40°C to +125°C	01		6	ns
(tphl – tplh)			-55°C to +125°C	02		6	
Rise time, output	tr	See figure 8	-40°C to +125°C	01		5	ns
			-55°C to +125°C	02		5	
Fall time, output	tf	See figure 8	-40°C to +125°C	01		5	ns
			-55°C to +125°C	02		5	

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

DEFENSE SUPPLY CENTER, COLUMBUS	SIZE	CODE IDENT NO.	DWG NO.
COLUMBUS, OHIO	A	16236	<b>V62/03671</b>
		REV C	PAGE 9

Test	Symbol	Conditions <u>1</u> /	Temperature, TA	Device type	Lin	nits	Unit
					Min	Max	
Receiver switching chara	cteristics se	ection – continued					
Output enable time to	tPZH	CL = 10 pF, see figure 8	-40°C to +125°C	01		50	ns
ingri iovol			-55°C to +125°C	02		50	
Output enable time to	tPZL	CL = 10 pF, see figure 8	-40°C to +125°C	01		50	ns
			-55°C to +125°C	02		50	
Output disable time to high level	tPHZ	CL = 10 pF, see figure 8	-40°C to +125°C	01		60	ns
			-55°C to +125°C	02		60	
Output disable time to	tPLZ	CL = 10 pF, see figure 8	-40°C to +125°C	01		40	ns
			-55°C to +125°C	02		40	

# TABLE I. <u>Electrical performance characteristics</u> - continued.

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.

DEFENSE SUPPLY CENTER, COLUMBUS	SIZE	CODE ID	DENT NO.	DWG NO.	
COLUMBUS, OHIO	A		<b>236</b>	<b>V62/03671</b>	
		REV	С	PAGE	10





FIGURE 1. Case outlines.

DEFENSE SUPPLY CENTER, COLUMBUS	SIZE	CODE IDENT NO.	DWG NO.
COLUMBUS, OHIO	A	16236	V62/03671
		REV C	PAGE 11

	Dimensions			
Symbol	Inches		Millimeters	
	Min	Max	Min	Max
А		.069		1.75
A1	0.004	0.010	0.10	0.25
b	0.012	0.020	0.31	0.51
С	0.005	0.010	0.13	0.25
D	0.189	.197	4.80	5.00
е	0.050	BSC	1.27 BSC	
E	0.150	0.157	3.80	4.00
E1	0.228	0.244	5.80	6.20
L	0.016	0.040	0.41	1.02
n	8 leads		8 le	ads

- 1. Controlling dimensions are millimeter, inch dimensions are given for reference only.
- 2. For dimension D, body length does not include mold flash, protrusion, or gate burrs. Mold flash, protrusion, or gate burrs shall not exceed 0.006 inch (0.15 mm) per end.
- 3. For dimension E, body width does not include interlead flash. Interlead flash shall not exceed 0.017 inch (0.43 mm) each side.
- 4. Falls within reference to JEDEC MS-012-AA.

FIGURE 1. <u>Case outline</u>. – continued.

DEFENSE SUPPLY CENTER, COLUMBUS	SIZE	CODE IDENT NO.	DWG NO.	
COLUMBUS, OHIO	A	16236	V62/03671	
		REV C	PAGE 12	

Case X

Device types	01 and 02
Case outline	х
Terminal number	Terminal symbol
1	R
2	RE
3	DE
4	D
5	GND
6	A
7	В
8	Vcc

FIGURE 2. Terminal connections.

DEFENSE SUPPLY CENTER, COLUMBUS	SIZE	CODE IDENT NO.	DWG NO.	
COLUMBUS, OHIO	A	16236	V62/03671	
		REV C	PAGE 13	



# Positive logic

DRIVER				
INPUT	ENABLE	OUTI	PUTS	
D	DE	A	В	
Н	Н	Н	L	
L	Н	L	Н	
Х	L	Z	Z	
Open	Н	H	Ĺ	

RECEIVER				
DIFFERENTIAL INPUTS	ENABLE	OUTPUT		
VA - VB	RE	R		
$V_{ID} \ge 0.2 V$	L	Н		
-0.2 V < VID < 0.2 V	L	?		
$VID \le -0.2 V$	L	L		
Х	Н	Z		
Open	L	Н		

 $\begin{array}{l} \mathsf{H} = \mathsf{high} \; \mathsf{level}, \; \; \mathsf{L} = \mathsf{low} \; \mathsf{level}, \; \; ? = \mathsf{indeterminate}, \\ \mathsf{X} = \mathsf{irrelevant}, \; \; \mathsf{Z} = \mathsf{high} \; \mathsf{impedance} \; (\mathsf{off}) \end{array}$ 

FIGURE 3. Logic diagram.

DEFENSE SUPPLY CENTER, COLUMBUS	SIZE	CODE IDENT NO.	DWG NO.	
COLUMBUS, OHIO	A	16236	<b>V62/03671</b>	
		REV C	PAGE 14	



FIGURE 4. Driver VOD and VOC test circuit.

FIGURE 5. Driver VOD3 test circuit.

DEFENSE SUPPLY CENTER, COLUMBUS	SIZE	CODE IDENT NO.	DWG NO. <b>V62/03671</b>	
COLUMBUS, OHIO	A	16236		
		REV C	PAGE 15	







- 1. The input pulse is supplied by a generator having the following characteristics: PRR  $\leq$  1 MHz, 50 % duty cycle, tr  $\leq$  6 ns, tf  $\leq$  6 ns, and ZO = 50  $\Omega$ .
- 2. CL includes probe and jig capacitance.

FIGURE 6. Driver test circuit and voltage waveforms - continued.

DEFENSE SUPPLY CENTER, COLUMBUS	SIZE	CODE IDENT NO.	DWG NO.	
COLUMBUS, OHIO	A	16236	V62/03671	
		REV C	PAGE 16	







- $\label{eq:product} \begin{array}{ll} \mbox{1.} & \mbox{The input pulse is supplied by a generator having the following characteristics:} \\ PRR \leq 1 \mbox{ MHz, 50 \% duty cycle, } t_r \leq 6 \mbox{ ns, tf} \leq 6 \mbox{ ns, and } Z_O \mbox{=} 50 \ \Omega. \end{array}$
- 2. CL includes probe and jig capacitance.

FIGURE 8. Receiver test circuit and voltage waveforms.

DEFENSE SUPPLY CENTER, COLUMBUS	SIZE	CODE IDENT NO.	DWG NO.	
COLUMBUS, OHIO	A	16236	V62/03671	
		REV C	PAGE 17	





- 1. The input pulse is supplied by a generator having the following characteristics: PRR  $\leq$  1 MHz, 50 % duty cycle, tr  $\leq$  6 ns, tf  $\leq$  6 ns, and ZO = 50  $\Omega$ .
- 2. CL includes probe and jig capacitance.

FIGURE 8. <u>Receiver test circuit and voltage waveforms</u> – continued.

DEFENSE SUPPLY CENTER, COLUMBUS	SIZE	CODE IDENT NO.		DWG NO. <b>V62/03671</b>	
COLUMBUS, OHIO	A	16236			
		REV	С	PAGE	18

## 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>https://landandmaritimeapps.dla.mil/Programs/Smcr/</u>.

Vendor item drawing administrative control number <u>1</u> /	Device manufacturer CAGE code	Top side marking	Vendor part number
V62/03671-01XE	01295	176AEP	SN65LBC176AQDREP
V62/03671-02XE	01295	176MEP	SN65LBC176AMDREP

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

CAGE code

01295

Source of supply

Texas Instruments, Inc. Semiconductor Group 8505 Forest Lane P.O. Box 660199 Dallas, TX 75243

DEFENSE SUPPLY CENTER, COLUMBUS	SIZE	CODE IDENT NO.	DWG NO.
COLUMBUS, OHIO	A	<b>16236</b>	<b>V62/03671</b>
		REV C	PAGE 19