

6

5

4

3

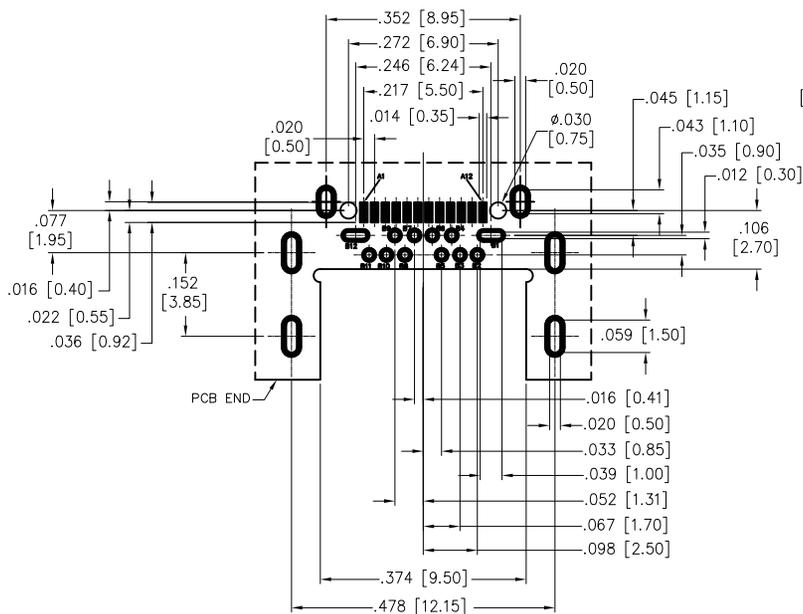
2

1

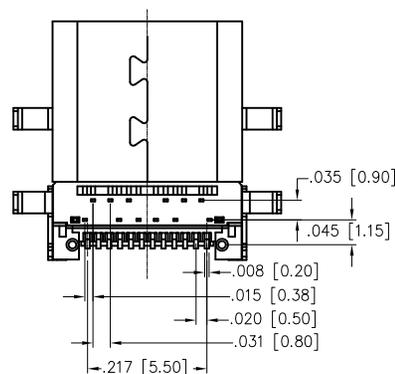
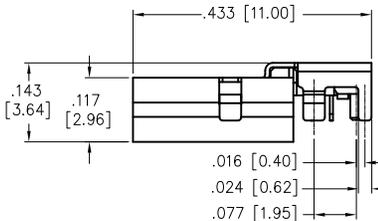
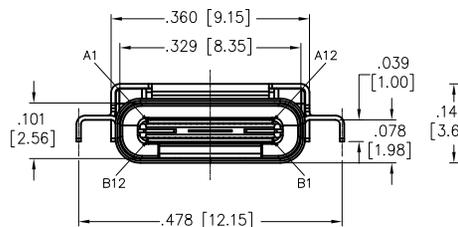
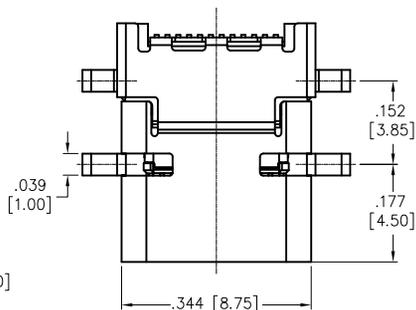
APPROVED: \_\_\_\_\_

DATE: \_\_\_\_\_ TITLE: \_\_\_\_\_

Rev	AWO #	Description	Date	Appr
-		PRELIMINARY	1/15/16	



RECOMMENDED PCB LAYOUT



PACKAGED ON TAPE & REEL

PIN	Signal Name	PIN	Signal Name
A1	GND	B12	GND
A2	SSTXp1	B11	SSRXp1
A3	SSTXn1	B10	SSRXn1
A4	VBUS	B9	VBUS
A5	CC1	B8	SBU2
A6	Dp1	B7	Dn2
A7	Dn1	B6	Dp2
A8	SBU1	B5	CC2
A9	VBUS	B4	VBUS
A10	SSRXn2	B3	SSTXn2
A11	SSRXp2	B2	SSTXp2
A12	GND	B1	GND

**SPECIFICATIONS:**  
 Material:  
 Insulator: (LCP) Hi-temp thermoplastic, rated UL 94V-0  
 Insulator color: Black  
 Contacts: Phosphor Bronze  
 Shell: Stainless Steel, Nickel plated  
 Plating:  
 Gold flash over Nickel underplate on contact area,  
 Tin over Copper underplate on solder tails.  
 Electrical:

Current rating: 5.0A for Vbus (i.e., Pins A4, A9, B4, B9)  
 1.25A for Vconn and GND (i.e., Pins B5, A1, A12, B1, B12)  
 0.25A for all the other contacts.

Contact resistance: 40 mohms max  
 Insulation resistance: 100 Mohms min.  
 Dielectric withstanding: 100 VAC for 1 minute

**Mechanical:**  
 Mating force: 0.51~2.04 kgf.  
 Unmating force: 0.81~2.04kgf.  
 Durability: 10,000 cycles Max.

**Environmental:**  
 Lead free, RoHS compliant.



UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE INCHES [MM] TOLERANCES: EXCEPT AS NOTED			
INCHES HOLES			
.X	± .10	Ø.X	± .10
.XX	± .020	Ø.XX	± .015
.XXX	± .015	Ø.XXX	± .010
APPROVALS		DATE	
DRAWN	AY	1/15/16	
CHECKED	LW	1/15/16	
APPROVED			

TITLE: UNIVERSAL SERIAL BUS, TYPE C, FEMALE,  
SMT TYPE, EDGE HANG, BLACK INSULATOR

SIZE	PART NO.	REV.
X	USB-C31-S-RA-EH-BK-CS1A-T/R	-

REF: S00087T SCALE: NTS SHEET 1 OF 1

6

5

4

3

2

1