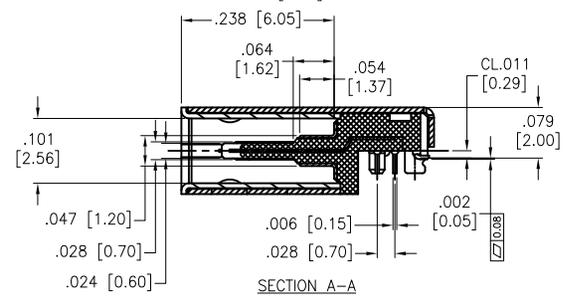
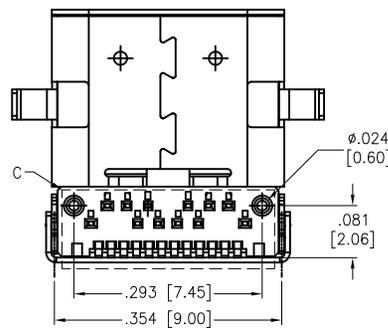
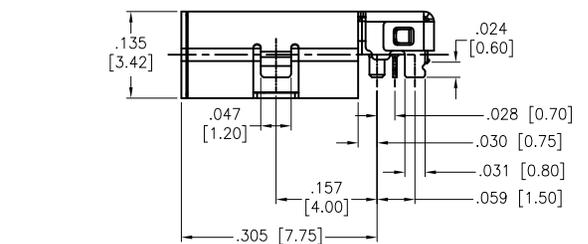
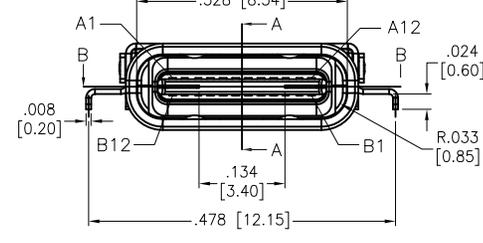
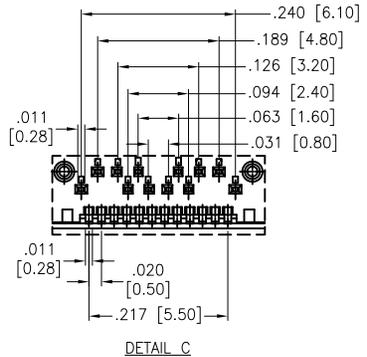
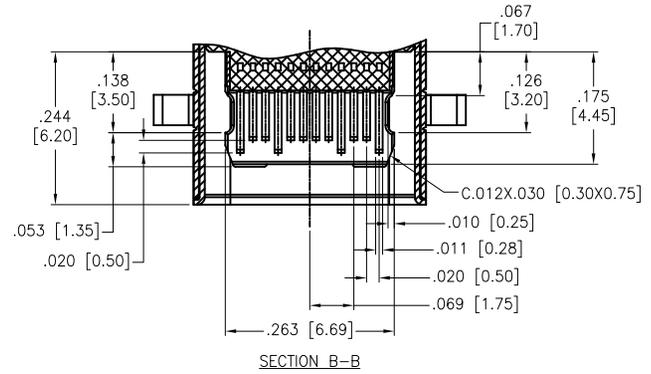
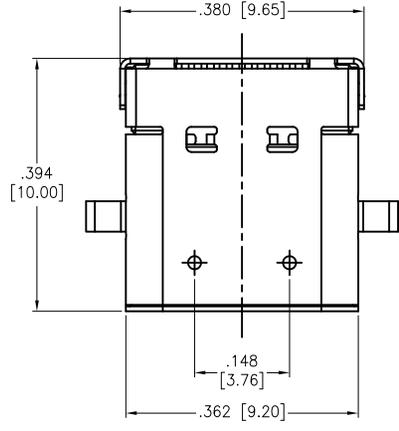


APPROVED: \_\_\_\_\_  
 DATE: \_\_\_\_\_ TITLE: \_\_\_\_\_

Rev	AWO #	Description	Date	Appr
-		RELEASED	12/12/14	
A		UPDATED SPEC.	2/13/17	HR/JL
B		ADDED DIM. & UPDATED LAYOUT	2/15/17	HR/OC

Pin	Signal Name	Mating Sequence	Pin	Signal Name	Mating Sequence
A1	GND	First	B12	GND	First
A2	SSTXp1	Second	B11	SSRXp1	Second
A3	SSTXn1	Second	B10	SSRXn1	Second
A4	V <sub>bus</sub>	First	B9	V <sub>bus</sub>	First
A5	CC1	Second	B8	SBU2	Second
A6	Dp1	Second	B7	Dn2	Second
A7	Dn1	Second	B6	Dp2	Second
A8	SBU1	Second	B5	CC2	Second
A9	V <sub>bus</sub>	First	B4	V <sub>bus</sub>	First
A10	SSRXn2	Second	B3	SSTXn2	Second
A11	SSRXp2	Second	B2	SSTXp2	Second
A12	GND	First	B1	GND	First
SHELL	GND		SHELL	GND	



**SPECIFICATIONS:**  
 Material:  
 Insulator: Hi-temp thermoplastic, rated UL 94V-0  
 Insulator color: Blue  
 Contacts: Copper Alloy  
 Shell: Stainless Steel, Nickel plated  
 Plating:  
 Gold flash over Nickel underplate on contact area,  
 Tin over Nickel underplate on solder tails.  
 Electrical:  
 Current rating: 3 A for V<sub>bus</sub> PIN  
 1.25 A for V<sub>conn</sub> PIN  
 Contact resistance: 40 mohms max. (initial)  
 50 mohms max. (after test) @ 20 mV, 100 mA  
 Insulation resistance: 100 Mohms min.  
 Dielectric withstanding: 100 VAC RMS

Temperature Rating:  
 Operating temperature: -40°C to +85°C  
 Environmental:



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	HR	12/12/14
CHECKED	TW	12/12/14
APPROVED		

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

SIZE X	PART NO. USB-C31-S-RA-EH2.0	REV. B
REF: S00097C	SCALE: NTS	SHEET 1 OF 2

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

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

Rev	AWO #	Description	Date	Appr
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SEE SHT 1 OF 2 FOR REVISION

RECOMMENDED PCB LAYOUT

UNLESS OTHERWISE SPECIFIED  
ALL DIMENSIONS ARE INCHES [MM]  
TOLERANCES: EXCEPT AS NOTED  
INCHES HOLES

.X	± .10	∅.X	± .10
.XX	± .020	∅.XX	± .015
.XXX	± .015	∅.XXX	± .010

TITLE UNIVERSAL SERIAL BUS, TYPE C, FEMALE,  
RIGHT ANGLE, EDGE HANG, BLACK INSULATOR

APPROVALS		DATE
DRAWN	HR	12/12/14
CHECKED	TW	12/12/14
APPROVED		

SIZE X	PART NO. USB-C31-S-RA-EH2.0	REV. B
REF: S00097C	SCALE: NTS	SHEET 2 OF 2

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