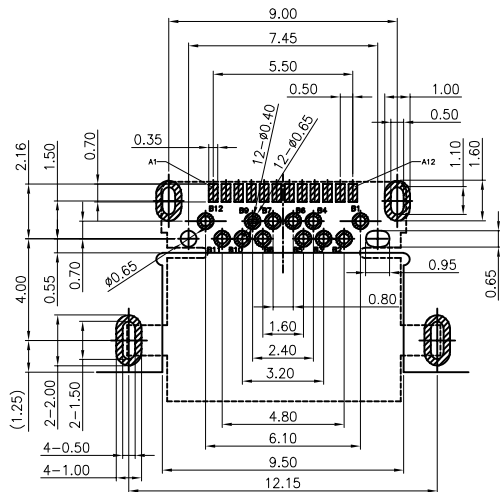


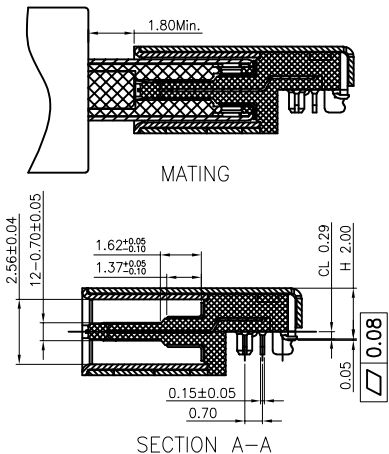
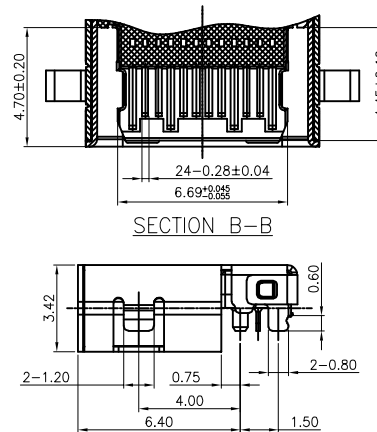
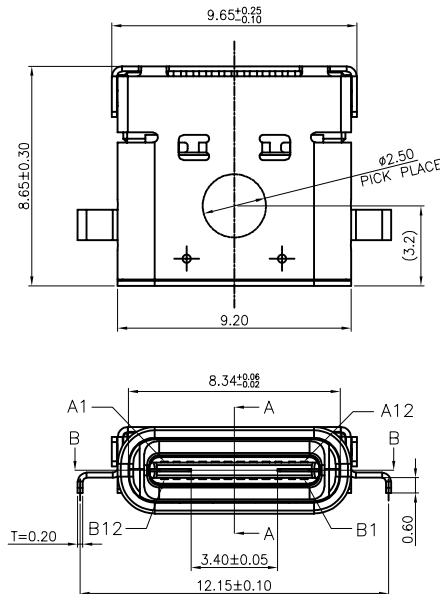
APPROVED: _____

DATE: _____ TITLE: _____

Rev	AWO #	Description	Date	Appr
-		RELEASED	8/2/18	
A		UPDATE DRAWING	8/26/20	AY/RC
B		REMOVED DATE CODE	1/20/26	LW1/AC1
C		UPDATE TITLE	5/11/26	WY/RC



RECOMMENDED PCB LAYOUT



SPECIFICATIONS:

Material:

Insulator: Hi-temp thermoplastic, rated UL 94V-0

Insulator color: Black

Contacts: Copper Alloy

Shell: Stainless Steel, Nickel plated

Cover Shell: Stainless Steel, Nickel plated

Inner Ground Cover Shell: Stainless Steel, Clean

Mid plate: Stainless Steel, Clean

Plating:

Gold flash over Nickel underplate on Contact area

Matte Tin over Nickel underplate on Solder tails

Electrical:

Current rating: 5A for Collectively Power Supply Pin (A1,A4,A9,A12,B1,B4,B9,B12)

1.25A for Vconn Pin

0.25A for other Signal Pin.

Contact resistance: 40 mohms max. (Initial)

10 mohms max. (After test) @ 20 mV, 100 mA

Insulation resistance: 100 Mohms min.

Dielectric withstanding: 100 VAC RMS

Mechanical:

Insertion force: 5~20 N

Withdrawal force: 8~20N Initial test; 6~20N Durability After Test

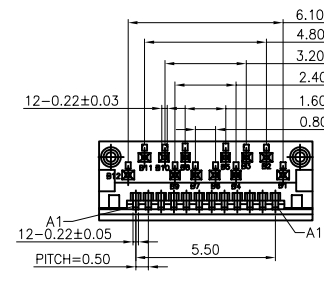
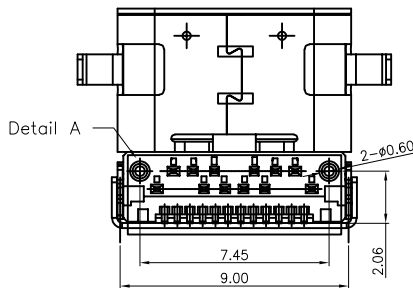
Durability: 10,000 Cycles

Temperature Rating:

Operating temperature: -40°C to +85°C

Environmental:

Lead free, RoHS compliant.



DETAIL A

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 _{bus}	First	B9	V _{bus}	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 _{bus}	First	B4	V _{bus}	First
A10	SSRXn2	Second	B3	SSTXn2	Second
A11	SSRXp2	Second	B2	SSTXp2	Second
A12	GND	First	B1	GND	First
SHELL	GND		SHELL	GND	

PACKAGED ON TAPE & REEL

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE MILLIMETERS. TOLERANCES: EXCEPT AS NOTED		
MM	X. ± 0.50 .X ± 0.30 .XX ± 0.20 .XXX ± 0.10	ANGLE ± 2°
DRAWN	HR	8/2/18
CHECKED	LW	8/2/18
APPROVED		
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TITLE UNIVERSAL SERIAL BUS, TYPE C, FEMALE, DIP TYPE, EDGE HANG TRANSMISSION EFFICIENCY: USB 3.2 Gen 2x2 (20Gb/s)		
SIZE X	PART NO. USB-C31-S-RA-EH2.0B-BK-T/R	REV. C
REF: S00197C	SCALE: NTS	SHEET 1 OF 1