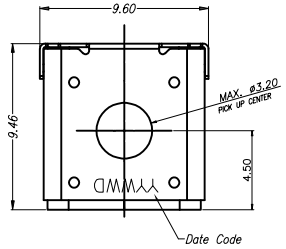
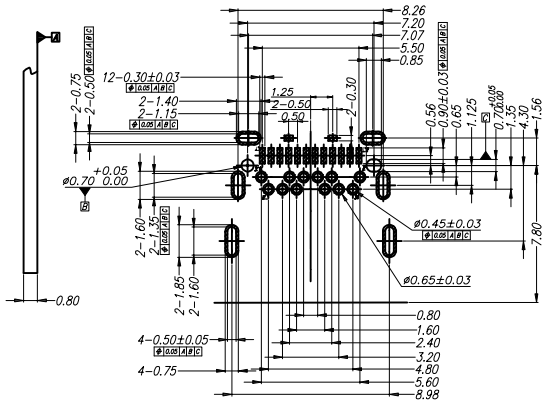
APPROVED: _____

DATE: _____ TITLE: _____

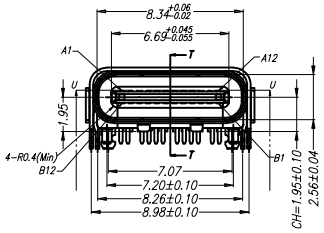
Rev	AWO #	Description	Date	Appr
-		RELEASED	10/19/18	
A		UPDATE DIM.	12/26/24	WY/FH
B		UPDATE DRAWING	1/14/25	WY/AC1
C		UPDATE TITLE	5/11/26	WY/RC

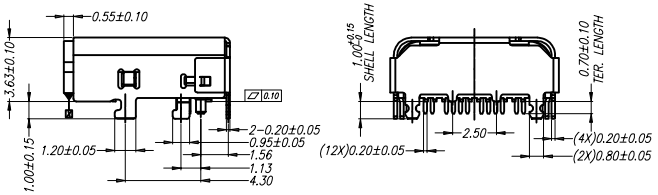


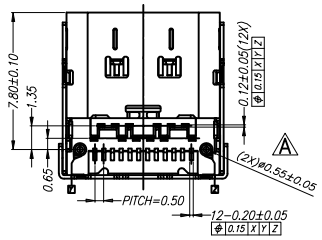
PIN ASSIGNMENT											
A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12
GND	TX1+	TX1-	VBUS	CC1	D+	D-	RFU1	VBUS	RX2-	RX2+	GND
GND	RX1+	RX1-	VBUS	RFU2	D-	D+	CC2	VBUS	TX2-	TX2+	GND
B12	B11	B10	B9	B8	B7	B6	B5	B4	B3	B2	B1

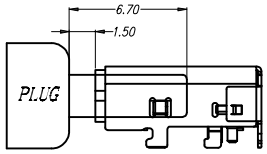


RECOMMENDED PCB LAYOUT
(TOP VIEW)

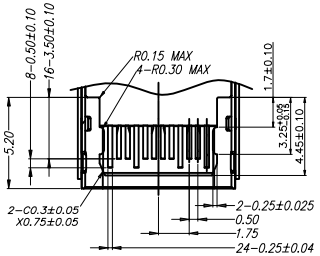




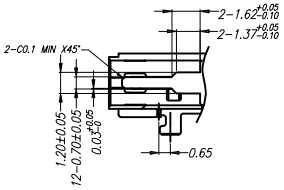




MATING CONDITION



SECTION U-U



SECTION T-T

SPECIFICATIONS:

Material:
Insulator: Hi-Temp Thermoplastic, rated UL 94V-0
Insulator color: Black
Contacts: Copper Alloy
MID-Plate: Stainless Steel
Shell: Stainless Steel, Nickel under plated over all
Gold Flash plated on the area of solder
Outer Shell: Stainless Steel, Nickel under plated over all
Gold Flash plated on the area of solder

Plating:
Gold Flash over Nickel underplate overall

Electrical:
Voltage rating: 20V
Current rating: 5A for VBUS Pins (A4, A9, B4, B9)
1.25A for GND Pins (A1, A12, B1, B12)
0.25A for Other Pins
Contact resistance: 40 mohms max for VBUS GND & Other Contact
50 mohms max After Environment Test.
Measure at 20mV, 100mA

Mechanical:
Insertion force: 5~20N
Withdrawal force: 8~20N
Durability: 10,000 cycles

Temperature Rating:
Operating temperature: -55°C to +85°C

Environmental:
Lead free, RoHS compliant.

RoHS COMPLIANT

PACKAGED ON TAPE & REEL

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE MILLIMETERS. TOLERANCES: EXCEPT AS NOTED

MM X ± 0.50
.X ± 0.25
.XX ± 0.15
.XXX ± 0.10

ANGLE X ± 1°

DRAWN	AY	10/19/18
CHECKED	TW	10/19/18
APPROVED		

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TITLE: UNIVERSAL SERIAL BUS, TYPE C, FEMALE, HYBRID TYPE, RIGHT ANGLE, H=3.63 MM TRANSMISSION EFFICIENCY: USB 3.2 Gen 1 (5Gb/s)

SIZE	PART NO.	REV.
X	USB-C31-S-RA-CS12-BK-T/R	C

REF: S00288T | SCALE: NTS | SHEET 1 OF 1