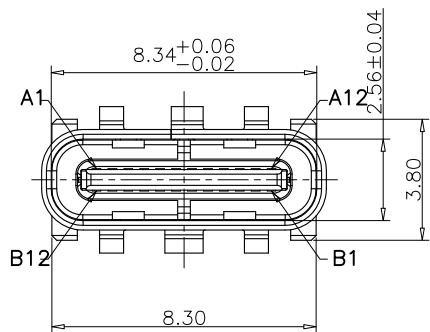
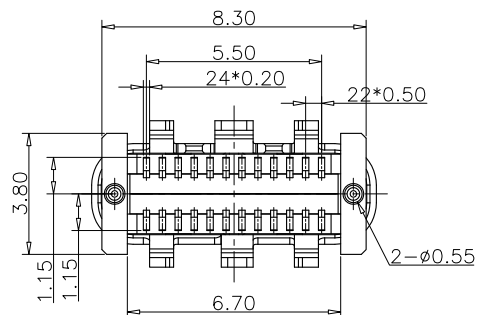
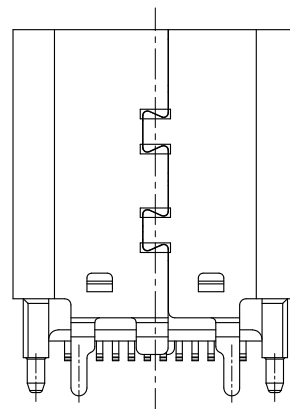
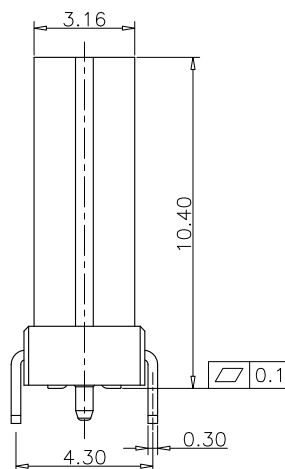
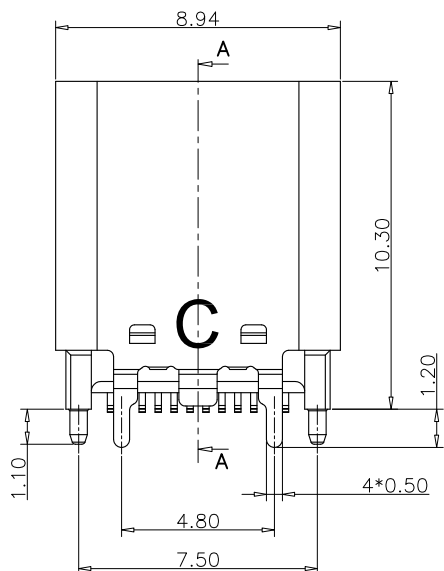


SECTION A-A
SCALE 1:1



Specifications

A. Material

Insulator: LCP, UL94 V-0, Black
Contact: Copper Alloy, T=0.12mm
Mid Plate: Stainless Steel, T=0.15mm
Shell: Stainless Steel, T=0.30mm
EMI: Stainless Steel, T=0.10mm

B. Plating

Contact Area: 3u" Au over 60u" min. Nickel
Solder Tails: 60u" min. Matte Tin over 60u" min. Nickel
Shell: 30u" min. Nickel
EMI: 50u" min. Nickel
Mid Plate: No Plating

C. Electrical

Current Rating: 5.00A collectively for VBus & GND pins
1.25A for A5/B5 pins
0.25A for all other pins

Voltage Rating: 48V

Power Rating: 240W

Contact Resistance: 40mΩ max initial
50mΩ max after test

Dielectric Withstanding Voltage: 100V AC

Insulation Resistance: 100MΩ min.

D. Mechanical & Environmental

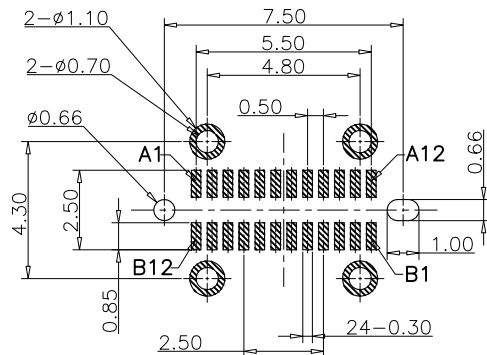
Operating Temperature: -25°C to +85°C

Mating Force: 5 to 20 N.

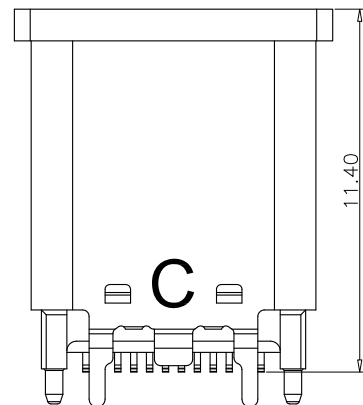
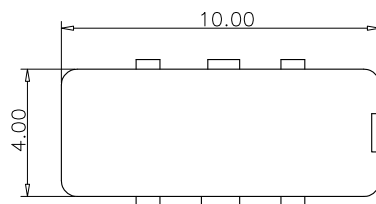
Unmated Force: 6 to 20 N after test

Durability: 10,000 cycles

Part Number			Product Description		
PTCFW-R12E-004			USB 3.2 Gen2 Type C Receptacle, Vertical, SMT, H=10.4mm, 24 Pin		
DWG.No.	P-TCF-025		Tolerances Unspecified		Units: Metric(mm)
Revision	A0		X.X ±0.35	X° ±5°	
Designed	Lee	11/21/20	X.XX ±0.25	X.X° ±2°	
Approved	Allen	11/21/20	X.XXX ±0.15		



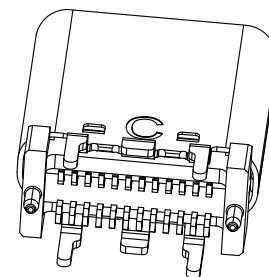
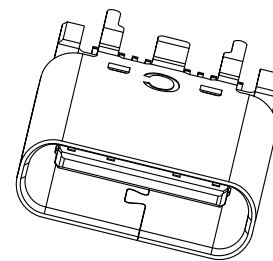
RECOMMENDED PCB LAYOUT (COMPONENT SIDE)
TOLERANCE FOR PCB LAYOUT IS ± 0.05



WITH PICK UP COVER
SCALE 1:1

PIN ASSIGNMENTS

PIN NUMBER	SIGNAL NAME	PIN NUMBER	SIGNAL NAME
A1	GND	B12	GND
A2	TX1+	B11	RX1+
A3	TX1-	B10	RX1-
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	RX2-	B3	TX2-
A11	RX2+	B2	TX2+
A12	GND	B1	GND



Part Number			Product Description				
PTCFW-R12E-004			USB 3.2 Gen2 Type C Receptacle, Vertical, SMT, H=10.4mm, 24 Pin				
DWG.No.	P-TCF-025		Tolerances Unspecified			Units: Metric(mm)	ROHS COMPLIANT 2011/65/EU Deca-BDEV
Revision	A0		X.X	±0.35	X°		
Designed	Lee	11/21/20	X.XX	±0.25	X.X°	±2°	
Approved	Allen	11/21/20	X.XXX	±0.15			

