

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

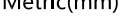
Dielectric Withstanding Voltage: 100V AC
 Insulation Resistance: 100MΩ min.

D. Mechanical & Environmental

Operating Temperature: -25℃ to +85℃
 Mating Force: 5 to 20 N.
 Unmated Force: 6 to 20 N after test
 Durability: 10,000 cycles

SECTION A-A

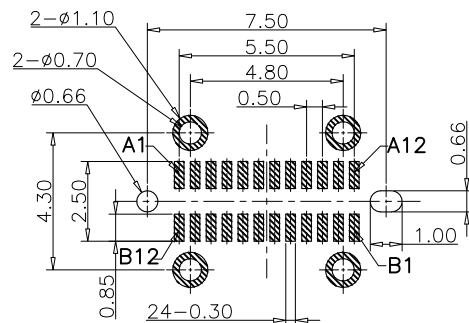
SCALE 1:1

Part Number			Product Description				 <i>Connecting the Future</i> www.szywf.com.cn www.szywf.cn
PTCFW-R12E-003			USB 3.2 Gen2 Type C Receptacle, Vertical, SMT, H=9.3mm, 24 Pin				
DWG.No.	P-TCF-024		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				
							Sheet No. 1/3

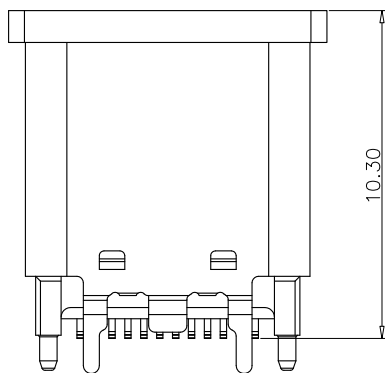
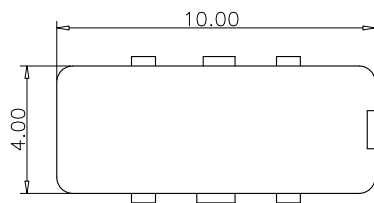


www.szywf.com.cn
 www.szywf.cn

Sheet No. 1/3



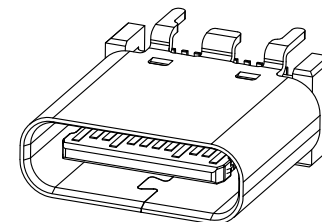
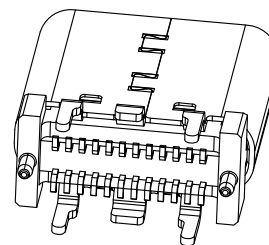
RECOMMENDED PCB LAYOUT (COMPONENT SIDE)
TOLERANCE FOR PCB LAYOUT IS ± 0.05



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-003			USB 3.2 Gen2 Type C Receptacle, Vertical, SMT, H=9.3mm, 24 Pin			
DWG.No.	P-TCF-024		Tolerances Unspecified		Units: Metric(mm)	
Revision	A0		X.X	± 0.35		
Designed	Lee	11/21/20	X.XX	± 0.25		
Approved	Allen	11/21/20	X.XXX	± 0.15		

