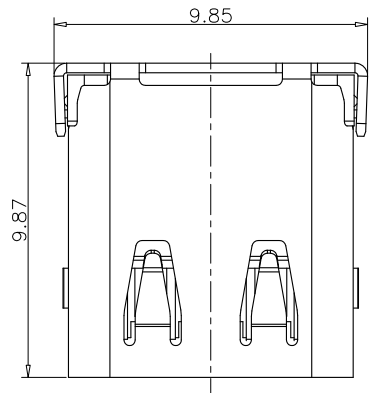


SECTION A-A  
SCALE 1:1

#### 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: Gold Flash Au 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.

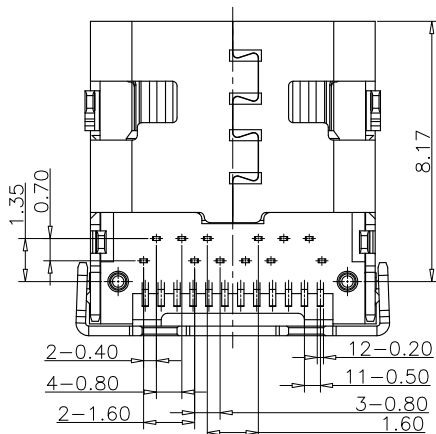
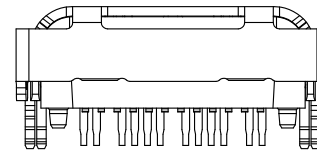
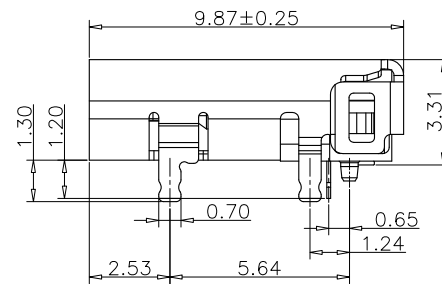
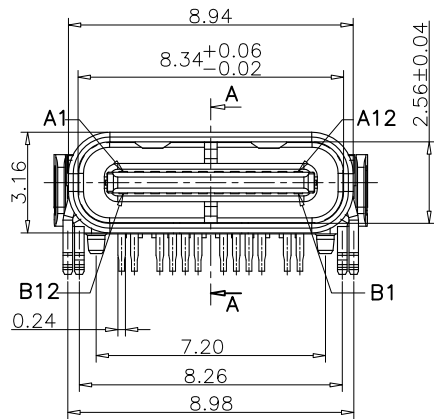
##### D. Mechanical & Environmental

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

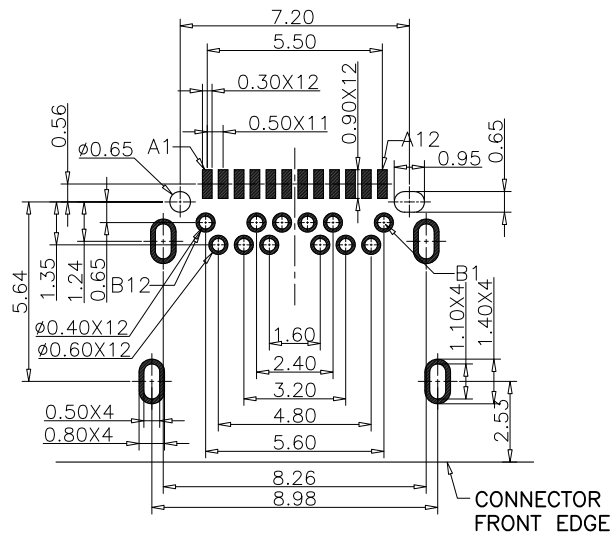


| Part Number    |           |          | Product Description                                                             |          |                   |
|----------------|-----------|----------|---------------------------------------------------------------------------------|----------|-------------------|
| PTCFW-H27C-002 |           |          | USB 3.2 Gen 2 Type C Receptacle, Horizontal, Hybrid Type, PCB Top Mount, 24 Pin |          |                   |
| DWG.No.        | P-TCF-010 |          | Tolerances Unspecified                                                          |          | Units: Metric(mm) |
| Revision       | A0        |          | X.X ±0.35                                                                       | X° ±5°   |                   |
| Designed       | Lee       | 11/30/20 | X.XX ±0.25                                                                      | X.X° ±2° |                   |
| Approved       | Allen     | 11/30/20 | X.XXX ±0.15                                                                     |          |                   |
|                |           |          |                                                                                 |          |                   |



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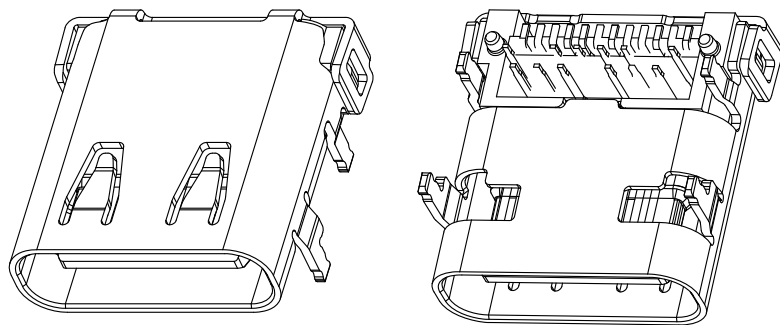
Sheet No. 1/3



RECOMMENDED PCB LAYOUT (COMPONENT SIDE)  
TOLERANCE FOR PCB LAYOUT IS  $\pm 0.05$

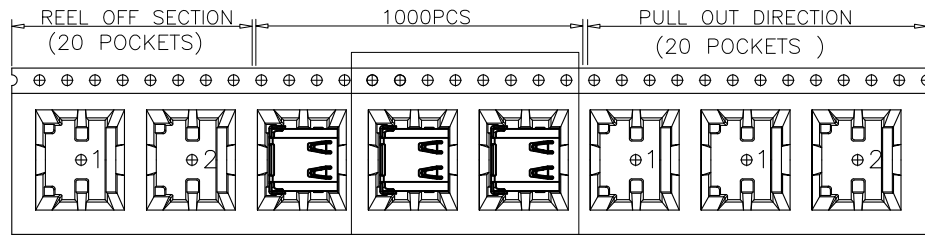
#### PIN ASSIGNMENTS

| 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         |

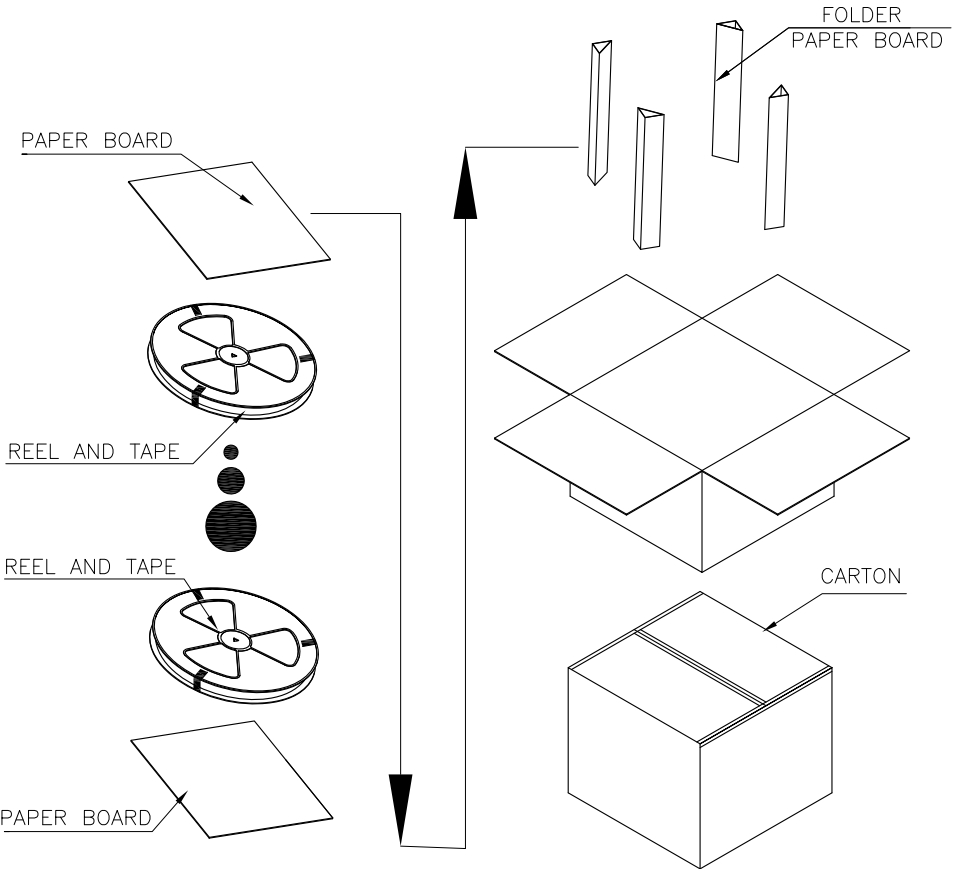
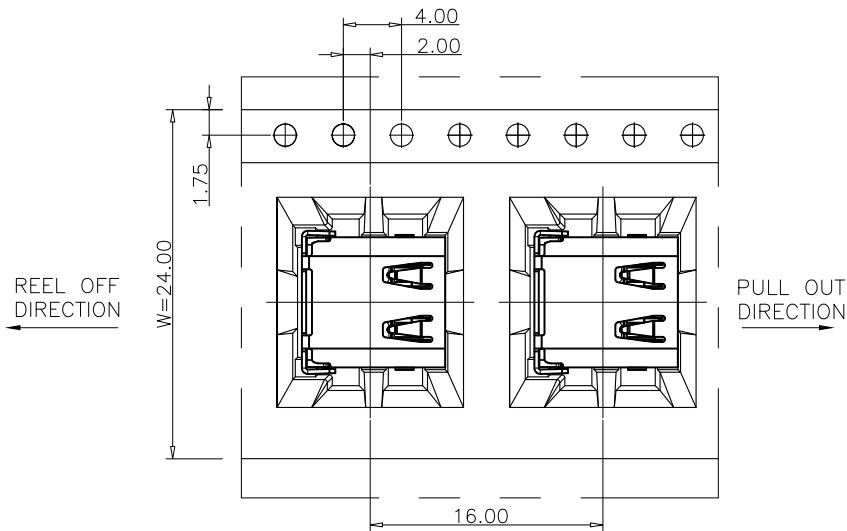
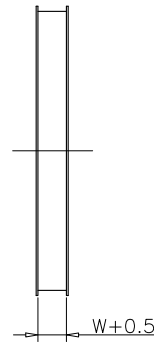
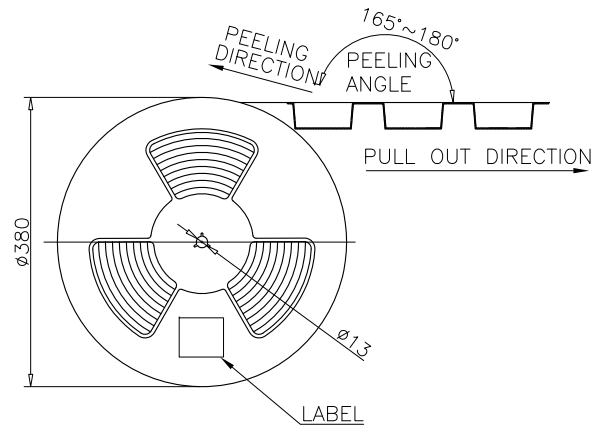


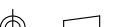
|                |           |          |                                                                                 |                                                                                                                                                                             |                                                                                       |                                                                                       |
|----------------|-----------|----------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Part Number    |           |          | Product Description                                                             |                                                                                                                                                                             |                                                                                       |  |
| PTCFW-H27C-002 |           |          | USB 3.2 Gen 2 Type C Receptacle, Horizontal, Hybrid Type, PCB Top Mount, 24 Pin |                                                                                                                                                                             |                                                                                       |                                                                                       |
| DWG.No.        | P-TCF-010 |          | Tolerances Unspecified                                                          |                                                                                                                                                                             | Units:<br>Metric(mm)                                                                  |                                                                                       |
| Revision       | A0        |          | X.X ±0.35                                                                       | X° ±5°                                                                                                                                                                      |  |                                                                                       |
| Designed       | Lee       | 11/30/20 | X.XX ±0.25                                                                      | X.X° ±2°                                                                                                                                                                    |                                                                                       |                                                                                       |
| Approved       | Allen     | 11/30/20 | X.XXX ±0.15                                                                     |   |                                                                                       |                                                                                       |
|                |           |          |                                                                                 |                                                                                                                                                                             |                                                                                       | Sheet No. 2/3                                                                         |





SEE DETAIL X



|                |           |          |                                                                                    |          |                                                                                                                                                                                |                                                                                                                                                                                                                                   |
|----------------|-----------|----------|------------------------------------------------------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number    |           |          | Product Description                                                                |          |                                                                                                                                                                                | <br><i>Connecting the Future</i><br><a href="http://www.szywf.com.cn">www.szywf.com.cn</a><br><a href="http://www.szywf.cn">www.szywf.cn</a> |
| PTCFW-H27C-002 |           |          | USB 3.2 Gen 2 Type C Receptacle, Horizontal,<br>Hybrid Type, PCB Top Mount, 24 Pin |          |                                                                                                                                                                                |                                                                                                                                                                                                                                   |
| DWG.No.        | P-TCF-010 |          | Tolerances Unspecified                                                             |          | Units:<br>Metric(mm)                                                                                                                                                           |                                                                                                                                                                                                                                   |
| Revision       | A0        |          | X.X ±0.35                                                                          | X° ±5°   | <br> |                                                                                                                                                                                                                                   |
| Designed       | Lee       | 11/30/20 | X.XX ±0.25                                                                         | X.X° ±2° |                                                                                                                                                                                |                                                                                                                                                                                                                                   |
| Approved       | Allen     | 11/30/20 | X.XXX ±0.15                                                                        |          |                                                                                                                                                                                |                                                                                                                                                                                                                                   |
| Sheet No. 3/3  |           |          |                                                                                    |          |                                                                                                                                                                                |                                                                                                                                                                                                                                   |

|                | REEL | CARTON |
|----------------|------|--------|
| QUANTITY (PCS) | 1000 | 10000  |

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Sheet No. 3/3