

**MODEL:** UJC-VP-3-SMT-TR | **DESCRIPTION:** USB RECEPTACLE**FEATURES**

- USB Type C receptacle
- mates with standard USB Type C plugs
- designed for power only applications
- vertical mount
- 6-pin
- reflow solder compatible
- tape & reel packaging

**SPECIFICATIONS**

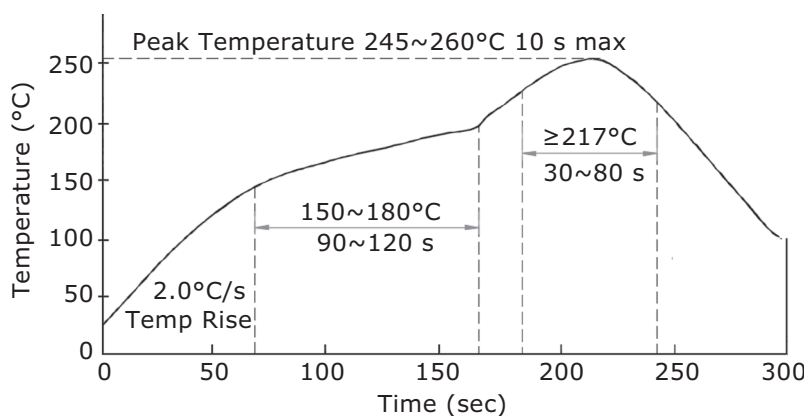
| parameter                       | conditions/description                               | min | typ    | max       | units  |
|---------------------------------|------------------------------------------------------|-----|--------|-----------|--------|
| rated input voltage             |                                                      |     |        | 20        | Vdc    |
| rated input current             | Vbus/GND pins (A9, A12, B9, B12)<br>CC pins (A5, B5) |     |        | 3<br>1.25 | A<br>A |
| contact resistance <sup>1</sup> |                                                      |     |        | 40        | mΩ     |
| insulation resistance           | at 100 Vdc for 1 minute between adjacent contacts    | 100 |        |           | MΩ     |
| voltage withstand               | for 1 minute between adjacent contacts               |     |        | 100       | Vac    |
| insertion force                 | at a rate of 12.5 mm/min                             | 5   |        | 20        | N      |
| withdrawal force                | at a rate of 12.5 mm/min                             | 8   |        | 20        | N      |
| life                            | at a rate of 180 cycles/hour                         |     | 10,000 |           | cycles |
| operating temperature           |                                                      | -25 |        | 85        | °C     |
| storage temperature             |                                                      | -20 |        | 60        | °C     |
| flammability rating             | UL94V-0                                              |     |        |           |        |
| RoHS                            | yes                                                  |     |        |           |        |

Note: 1. When measured at 20 mV / 100 mA max.

**SOLDERABILITY**

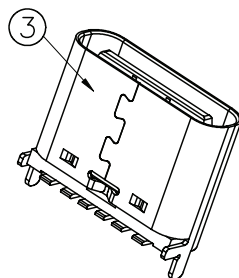
| parameter                     | conditions/description    | min | typ | max | units |
|-------------------------------|---------------------------|-----|-----|-----|-------|
| reel storage                  | at relative humidity <60% |     |     | 30  | °C    |
| reflow soldering <sup>2</sup> | see reflow profile        |     |     | 260 | °C    |

Note: 2. It is recommended to reflow solder within 168 hours from opening vacuum packaging at a temperature <30°C & relative humidity <60%.

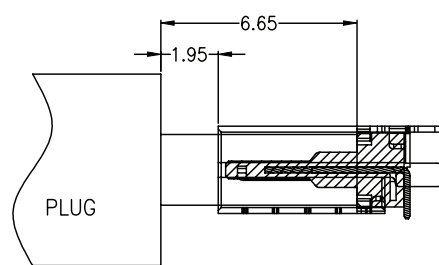
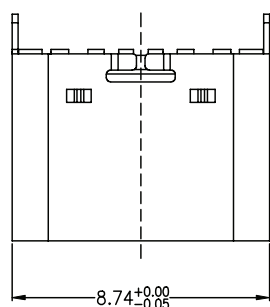


## MECHANICAL DRAWING

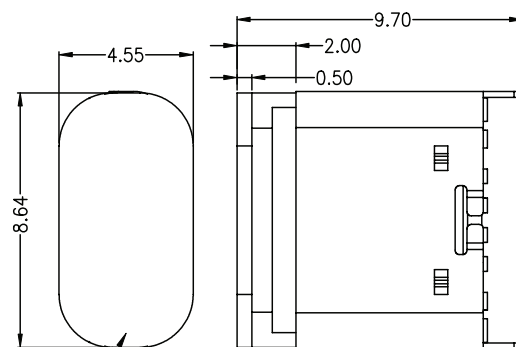
units: mm  
 tolerance:  
 X.±0.50 mm  
 X.X ±0.30 mm  
 X.XX ±0.20 mm  
 X.XXX ±0.10 mm  
 PCB: ±0.05 mm  
 PCB thickness: 1~1.2 mm



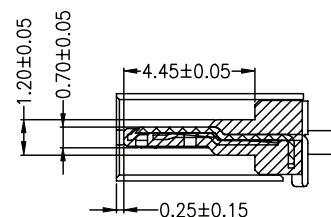
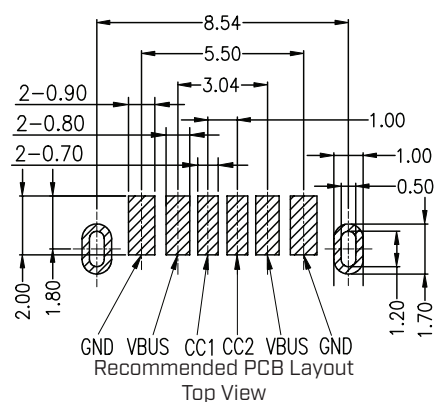
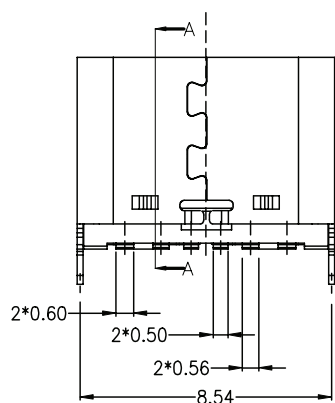
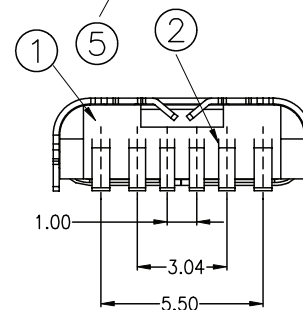
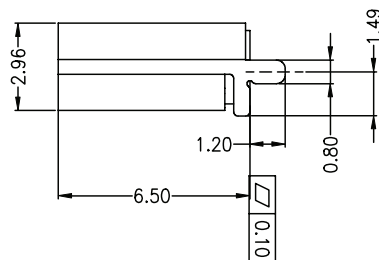
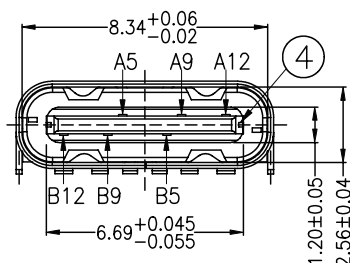
|   | MATERIAL        | PLATING         |
|---|-----------------|-----------------|
| 1 | insulator       | LCP [UL94V-0]   |
| 2 | contact         | copper alloy    |
| 3 | shell           | stainless steel |
| 4 | shielding plate | stainless steel |
| 5 | cover           | LCP [UL94V-0]   |



Plug and Receptacle Mating View



Cap information



PIN CONNECTIONS

| PIN | SIGNAL NAME | PIN | SIGNAL NAME |
|-----|-------------|-----|-------------|
| A5  | CC1         | B12 | GND         |
| A9  | VBUS        | B9  | VBUS        |
| A12 | GND         | B5  | CC2         |

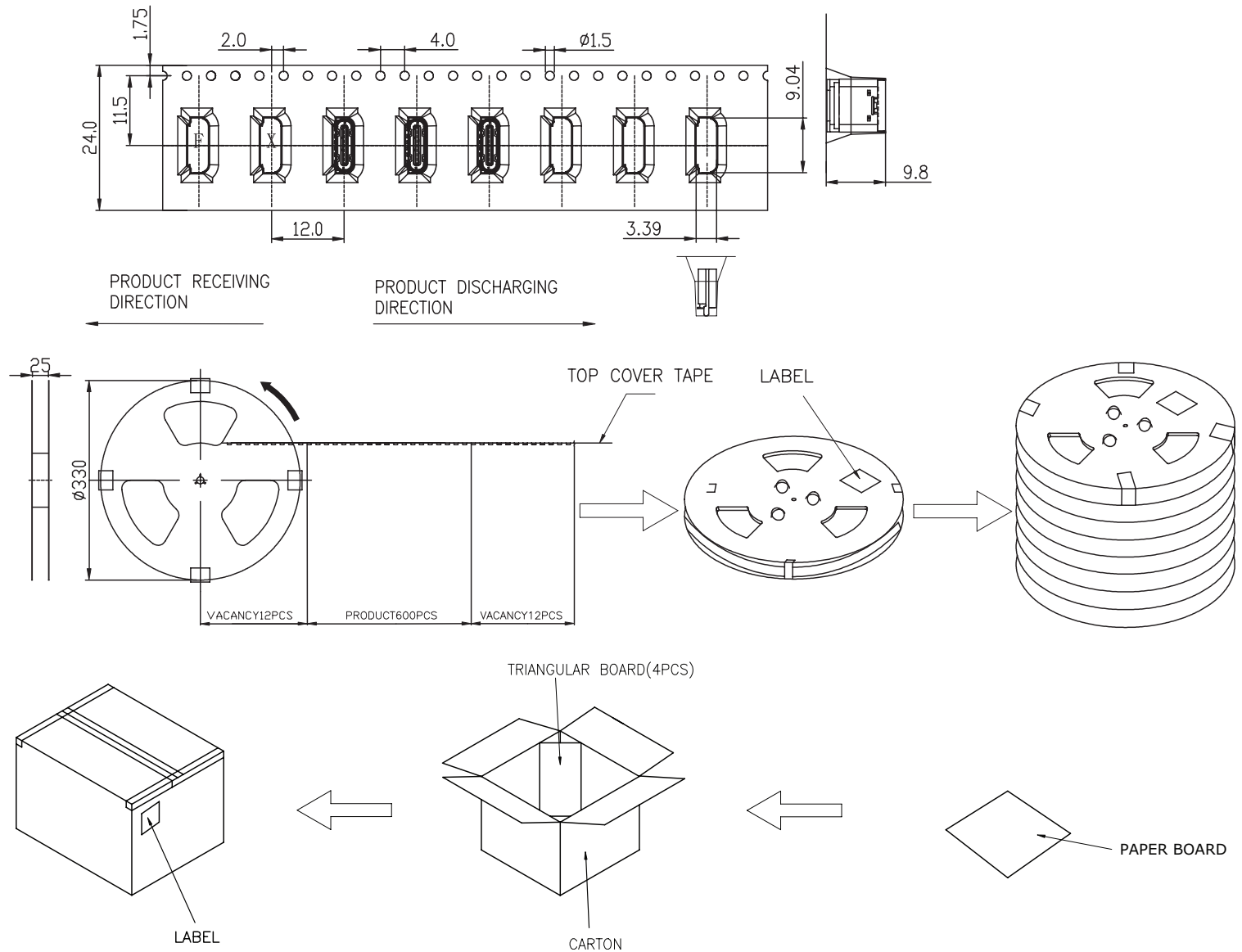
## PACKAGING

units: mm

Reel Size:  $\varnothing 330$  mm

Reel QTY: 600 pcs per reel

Carton QTY: 6,000 pcs per carton



## REVISION HISTORY

| rev. | description                  | date       |
|------|------------------------------|------------|
| 1.0  | initial release              | 05/11/2021 |
| 1.01 | logo, datasheet style update | 08/05/2022 |

The revision history provided is for informational purposes only and is believed to be accurate.



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