

**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**

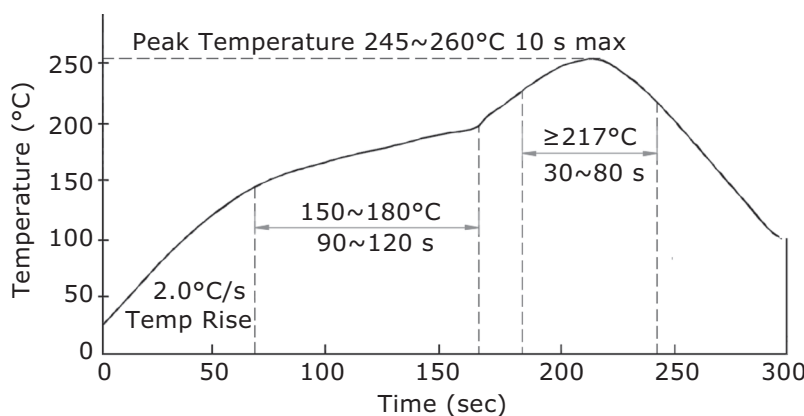
| parameter                       | conditions/description                            | min | typ    | max  | units  |
|---------------------------------|---------------------------------------------------|-----|--------|------|--------|
| rated input voltage             |                                                   |     |        | 20   | Vdc    |
| rated input current             | Vbus/GND pins (A9, A12, B9, B12)                  |     |        | 3    | A      |
|                                 | CC pins (A5, B5)                                  |     |        | 1.25 | 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**

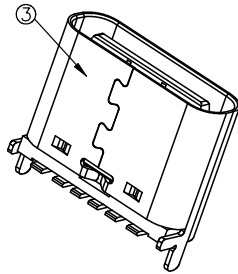
| parameter                     | conditions/description    | min | typ | max | units |
|-------------------------------|---------------------------|-----|-----|-----|-------|
| reel storage                  | at relative humidity <60% |     |     | 30  | °C    |
| reflow soldering <sup>2</sup> | see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



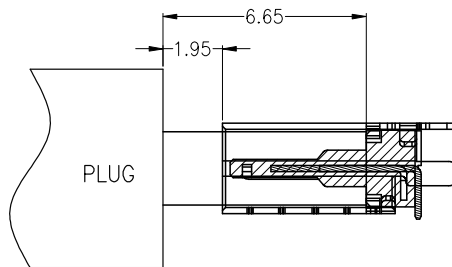
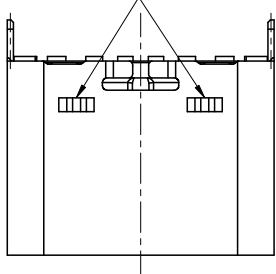
## MECHANICAL DRAWING

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



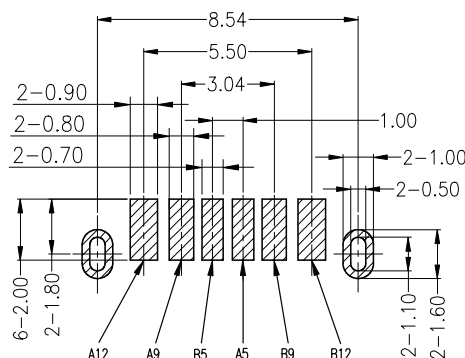
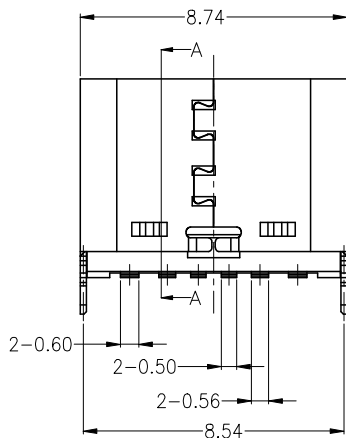
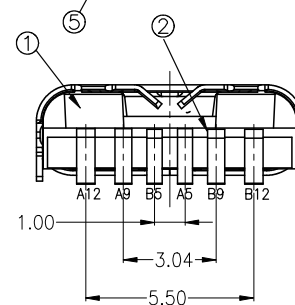
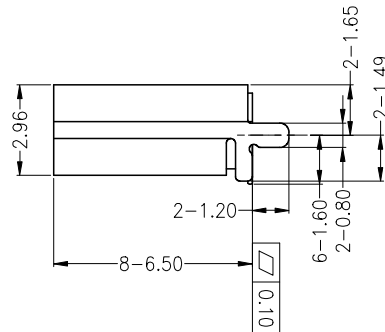
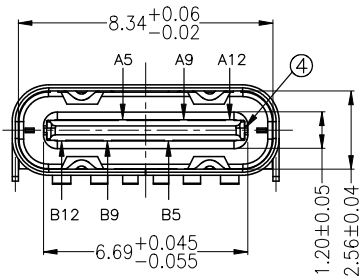
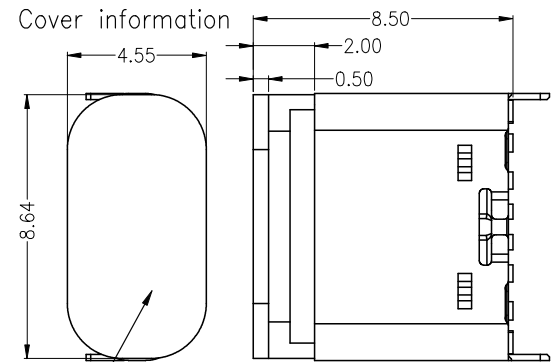
|   |                 | MATERIAL        | PLATING                                                                     |
|---|-----------------|-----------------|-----------------------------------------------------------------------------|
| 1 | insulator       | LCP [UL94V-0]   | black                                                                       |
| 2 | contact         | copper alloy    | contact area: gold flash over nickel<br>solder area: gold flash over nickel |
| 3 | shell           | stainless steel | nickel                                                                      |
| 4 | shielding plate | stainless steel | ---                                                                         |
| 5 | cover           | LCP [UL94V-0]   | black                                                                       |

The Concave Point Of The Iron Shell Becomes Larger

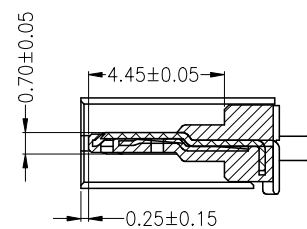


Plug and Receptacle Mating View

Cover information



Recommended PCB Layout  
Top View



SECTION A-A

PIN CONNECTIONS

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

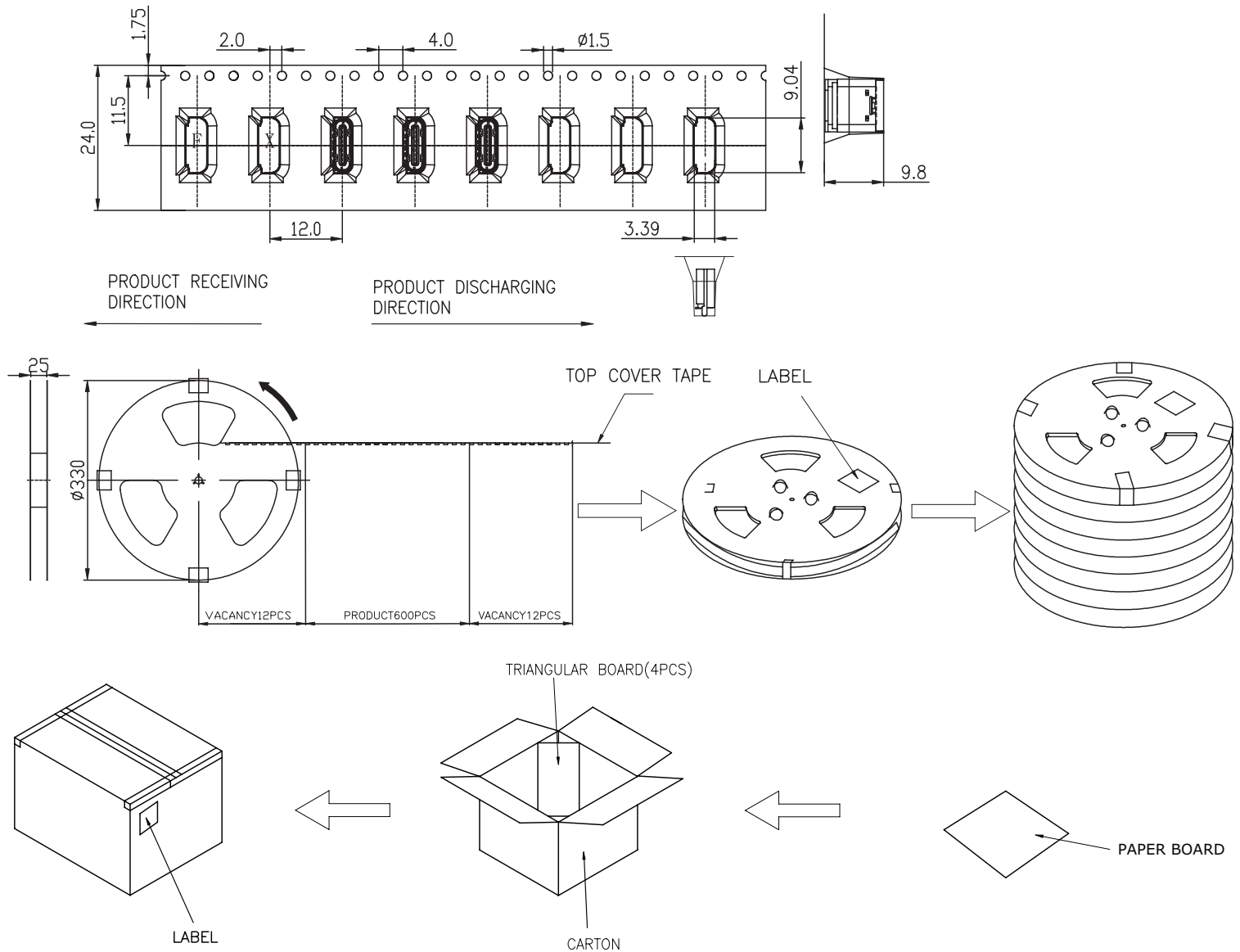
## PACKAGING

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 |
| 1.02 | updated drawing                   | 09/18/2023 |
| 1.03 | CUI Devices rebranded to Same Sky | 09/12/2024 |
| 1.04 | modified housing                  | 12/05/2024 |

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



Same Sky offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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