

**MODEL:** UJ31-CH-3-SMT-TR | **DESCRIPTION:** USB RECEPTACLE**FEATURES**

- USB Type C receptacle
- USB 3.2 Gen 2
- 10 Gbit/s data transfer speed
- reflow solder compatible
- tape & reel packaging

**SPECIFICATIONS**

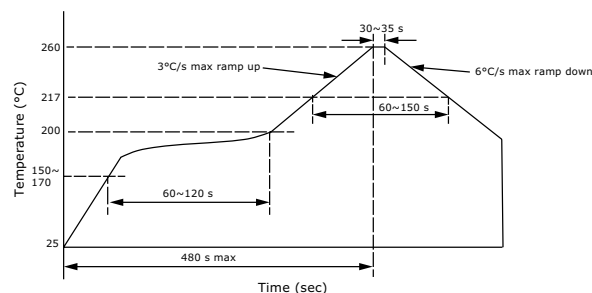
| parameter                       | conditions/description                            | min | typ    | max  | units  |
|---------------------------------|---------------------------------------------------|-----|--------|------|--------|
| USB standard                    | USB 3.2 Gen 2                                     |     |        |      |        |
| rated input voltage             |                                                   |     |        | 20   | Vdc    |
| rated input current             | as per EIA-364-70, Method B                       |     |        |      |        |
|                                 | power pins collectively [A4, A9, B4, B9]          |     |        | 5.0  | A      |
|                                 | GND pins collectively [A1, A12, B1, B12]          |     |        | 6.25 | A      |
|                                 | VCONN pins individually [A5, B5]                  |     |        | 1.25 | A      |
|                                 | all other signal pins individually                |     |        | 0.25 | A      |
| contact resistance <sup>1</sup> | between terminals and mating plug                 |     |        | 40   | mΩ     |
| insulation resistance           | at 100 Vdc for 1 minute between adjacent contacts | 100 |        |      | MΩ     |
| voltage withstand               | at 60 Hz 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 200 max cycles per hour              |     | 10,000 |      | cycles |
| operating temperature           |                                                   | -30 |        | 85   | °C     |
| storage temperature             |                                                   | -40 |        | 85   | °C     |
| flammability rating             | UL94V-0                                           |     |        |      |        |
| RoHS                            | yes                                               |     |        |      |        |

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

**SOLDERABILITY**

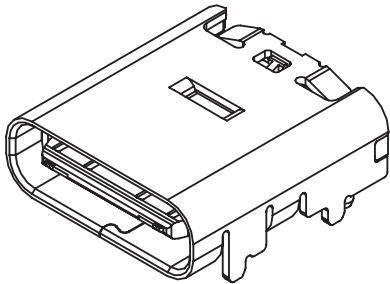
| parameter                     | conditions/description    | min | typ | max | units |
|-------------------------------|---------------------------|-----|-----|-----|-------|
| reel storage                  | at relative humidity <60% |     |     | 30  | °C    |
| reflow soldering <sup>2</sup> | see reflow profile        | 255 | 260 | 265 | °C    |

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

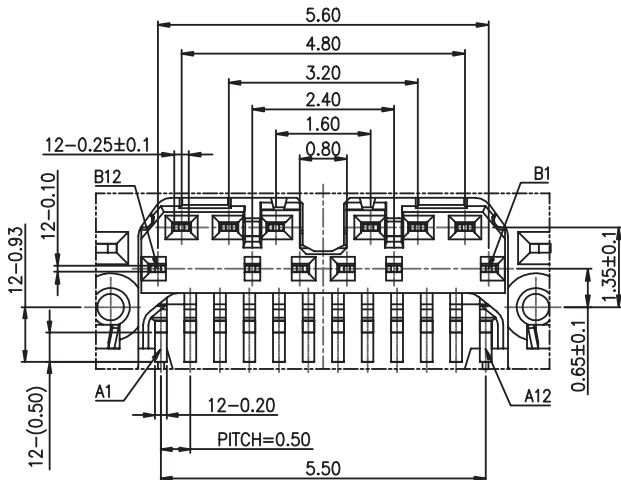
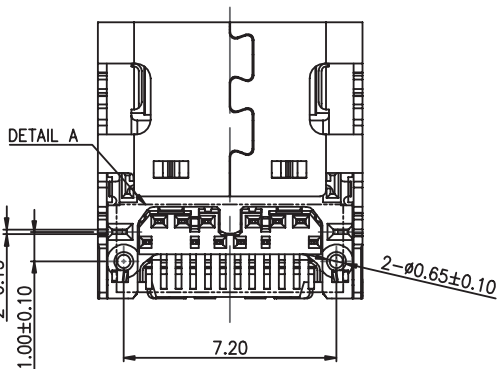
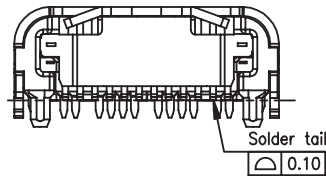
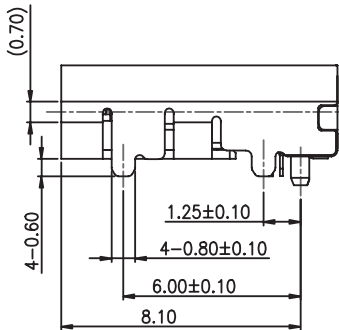
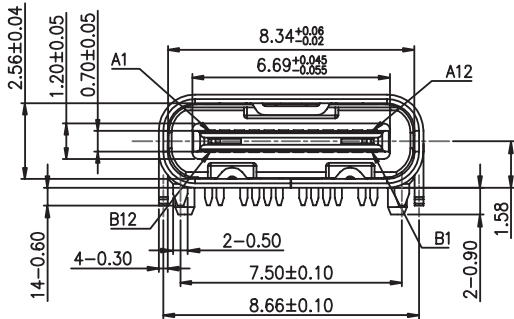
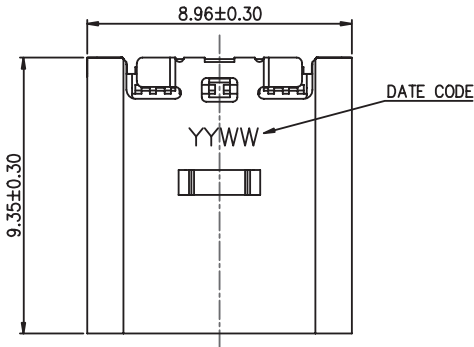


MECHANICAL DRAWING

units: mm  
tolerance:  
X.X ±0.2 mm  
X.XX ±0.15 mm



|                   | MATERIAL        | PLATING            |
|-------------------|-----------------|--------------------|
| contact terminals | copper alloy    | contact: 3 μ" gold |
| shell             | stainless steel | nickel             |
| mid plate         | stainless steel | tin                |
| insulator         | PA9T            |                    |



DETAIL A  
SCALE: 8/1

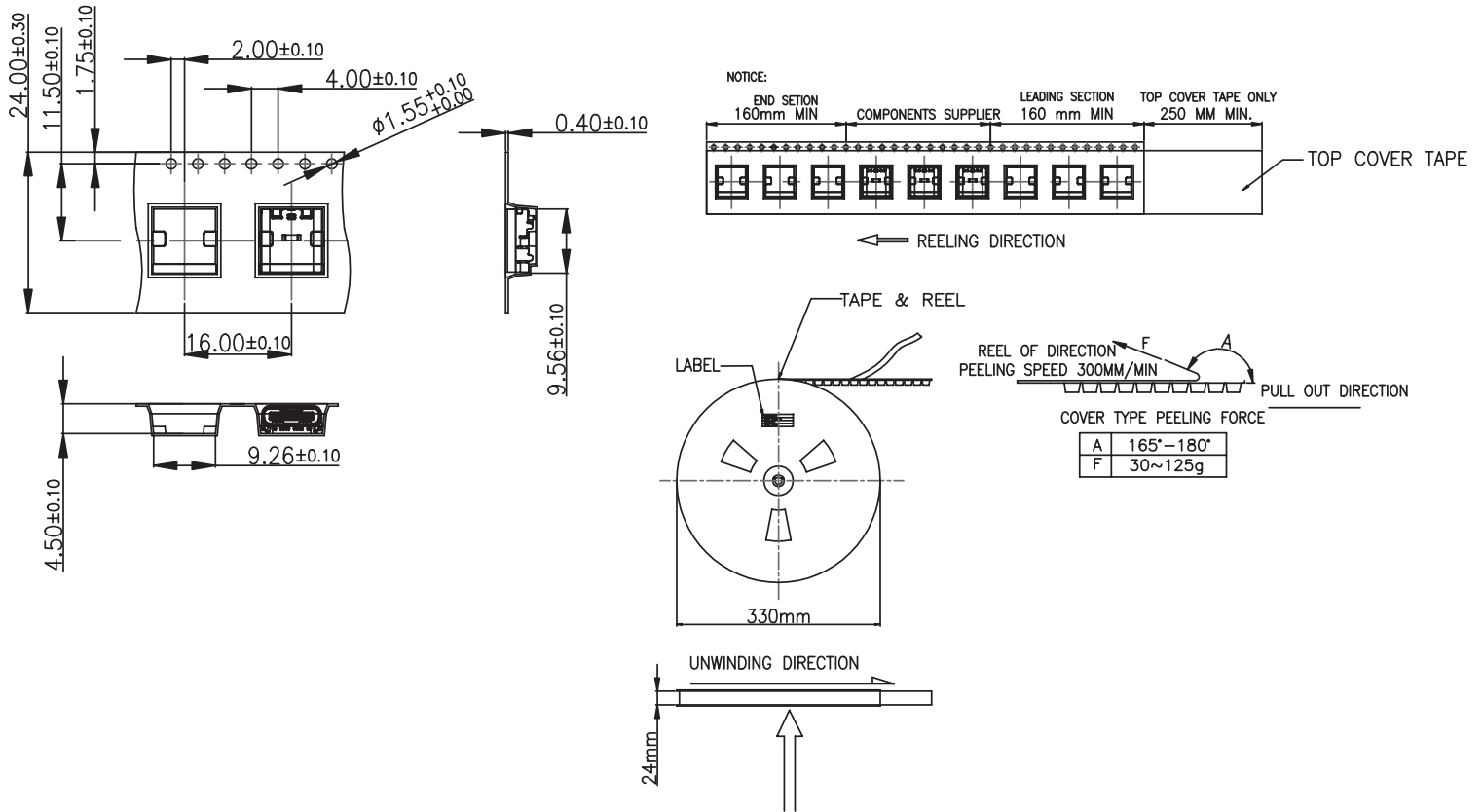
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## PACKAGING

units: mm

Reel Size:  $\varnothing 330$  mm

Reel QTY: 850 pcs per reel



REVISION HISTORY

| rev. | description                       | date       |
|------|-----------------------------------|------------|
| 1.0  | initial release                   | 12/19/2017 |
| 1.01 | updated datasheet                 | 01/30/2018 |
| 1.02 | brand update                      | 02/05/2020 |
| 1.03 | updated USB standard              | 04/06/2022 |
| 1.04 | logo, datasheet style update      | 08/05/2022 |
| 1.05 | CUI Devices rebranded to Same Sky | 09/12/2024 |

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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Same Sky products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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