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# MODEL: UJ20-C-H-C-4-SMT-TR | DESCRIPTION: USB RECEPTACLE

## FEATURES

- USB Type C receptacle
- USB 2.0
- 480 Mbit/s data transfer speed
- reflow solder compatible
- tape & reel packaging

RoHS

## SPECIFICATIONS

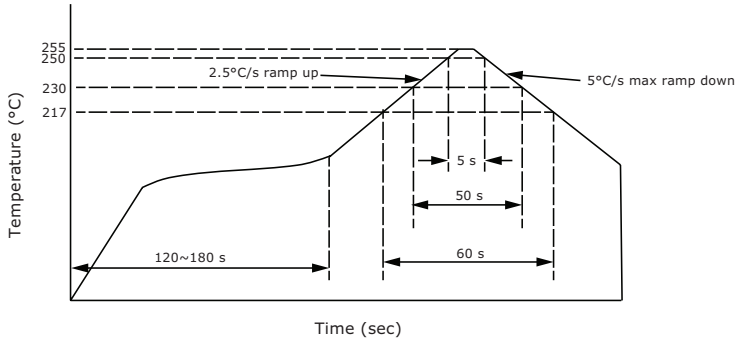
| parameter | conditions/description | min | typ | max | units |
|---|---|---|---|---|---|
| USB standard | USB 2.0 | | | | |
| rated input voltage | | | | 20 | Vdc |
| rated input current | as per EIA-364-70, Method B<br>power pins collectively (A1, A4, A9, A12, B1, B4, B9, B12)<br>VCONN pins individually (A5, B5)<br>all other signal pins individually | | | 5.0<br>1.25<br>0.25 | A<br>A<br>A |
| contact resistance[1] | | | | 40 | mΩ |
| insulation resistance | at 200 Vdc | 100 | | | MΩ |
| voltage withstand | for 1 minute | 100 | | | Vac |
| insertion force | | 5 | | 20 | N |
| withdrawal force | | 6 | | 20 | N |
| life | | | 10,000 | | cycles |
| operating temperature | | -40 | | 85 | °C |
| flammability rating | UL94V-0 | | | | |
| RoHS | yes | | | | |

Note: 1. When measured at 20 mV / 100 mA.
2. All specifications measured at 10~35°C, humidity at 45~85%, under standard atmospheric pressure, unless otherwise noted.

## SOLDERABILITY

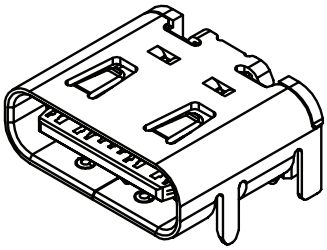
| parameter | conditions/description | min | typ | max | units |
|---|---|---|---|---|---|
| reel storage | at relative humidity 65~70% | 25 | | 30 | °C |
| reflow soldering[3] | see reflow profile | | 255 | 260 | °C |

Note: 3. It is recommended to reflow solder within 3 months from opening vacuum packaging at a temperature of 25~30°C & relative humidity 65~70%.

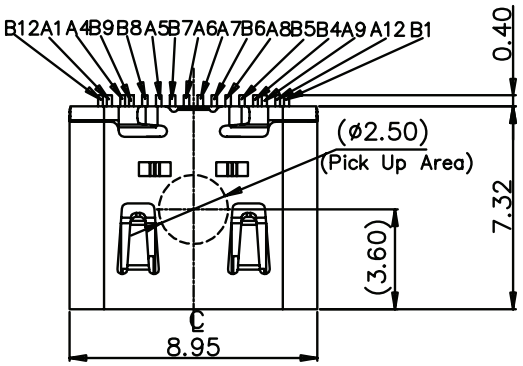


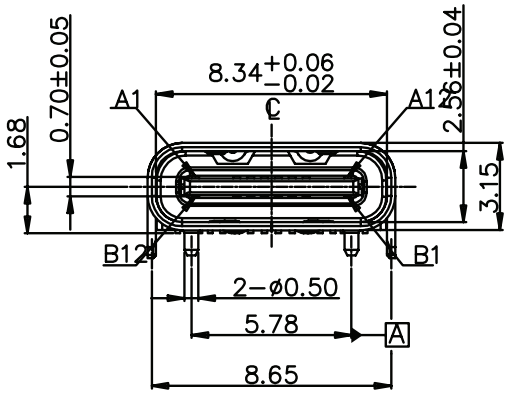
## MECHANICAL DRAWING

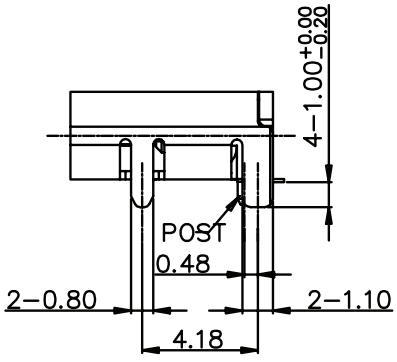
units: mm
tolerance:
X. ±0.50 mm
X.X ±0.30 mm
X.XX ±0.20 mm
X.XXX ±0.10 mm
unless otherwise specified

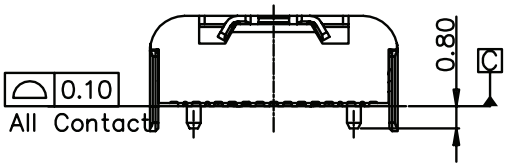


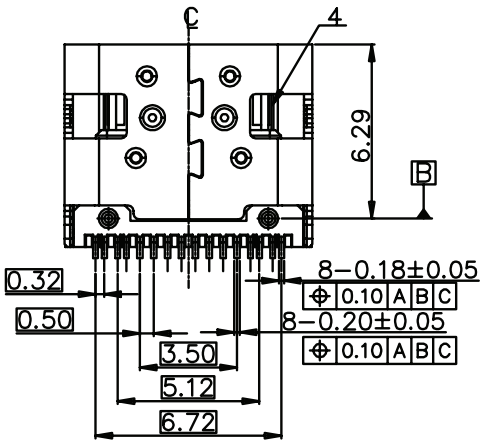
| DESCRIPTION | MATERIAL | PLATING/COLOR |
|---|---|---|
| insulator | LCP (UL94V-0) | black |
| contact | copper alloy<br>t=0.12 mm | contact area: gold flash over 50 µ" nickel<br>solder area: 80 µ" matte tin over 50 µ" nickel |
| shell | stainless steel<br>t=0.30 mm | 50 µ" nickel |
| mid plate | stainless steel<br>t=0.15 mm | 50 µ" nickel |

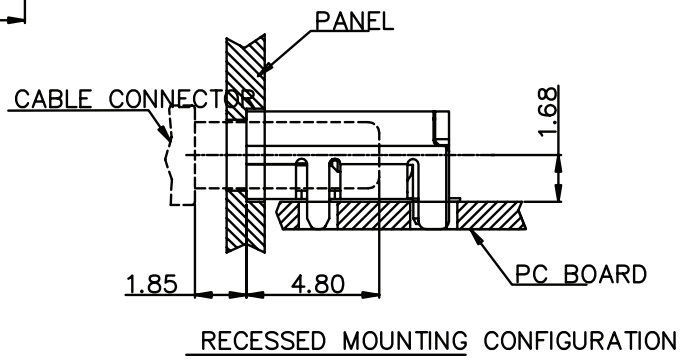


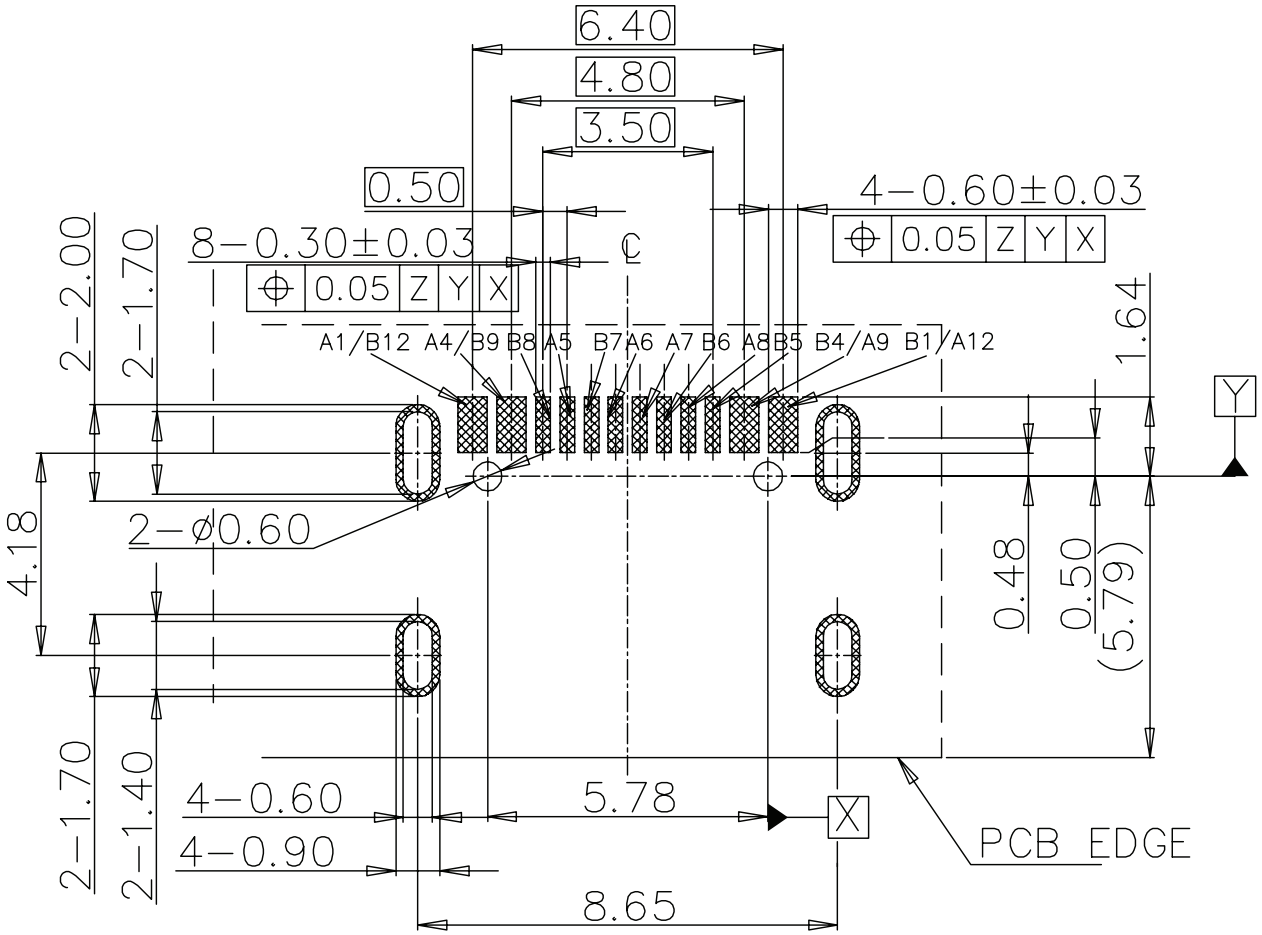




RECESSED MOUNTING CONFIGURATION

## MECHANICAL DRAWING (CONTINUED)

units: mm
PCB tolerance: ±0.05 mm
PCB thickenss: 1.0±0.05 mm

| PIN CONNECTIONS | | | | | |
|---|---|---|---|---|---|
| PIN | SIGNAL NAME | MATING SEQUENCE | PIN | SIGNAL NAME | MATING SEQUENCE |
| A1 | GND | FIRST | B12 | GND | FIRST |
| A4 | VBUS | FIRST | B9 | VBUS | FIRST |
| A5 | CC1 | SECOND | B8 | SBU2 | SECOND |
| A6 | Dp1 | SECOND | B7 | Dn2 | SECOND |
| A7 | Dn1 | SECOND | B6 | Dp2 | SECOND |
| A8 | SBU1 | SECOND | B5 | CC2 | SECOND |
| A9 | VBUS | FIRST | B4 | VBUS | FIRST |
| A12 | GND | FIRST | B1 | GND | FIRST |
| SHELL | | GND | SHELL | | GND |

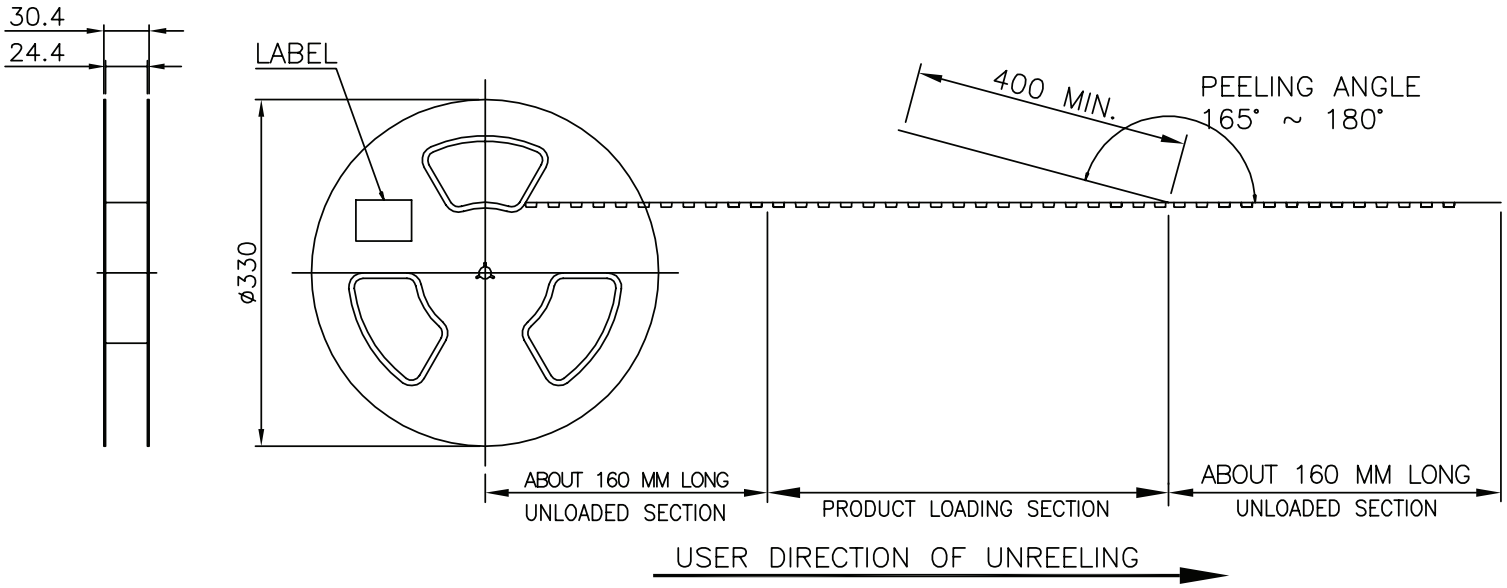


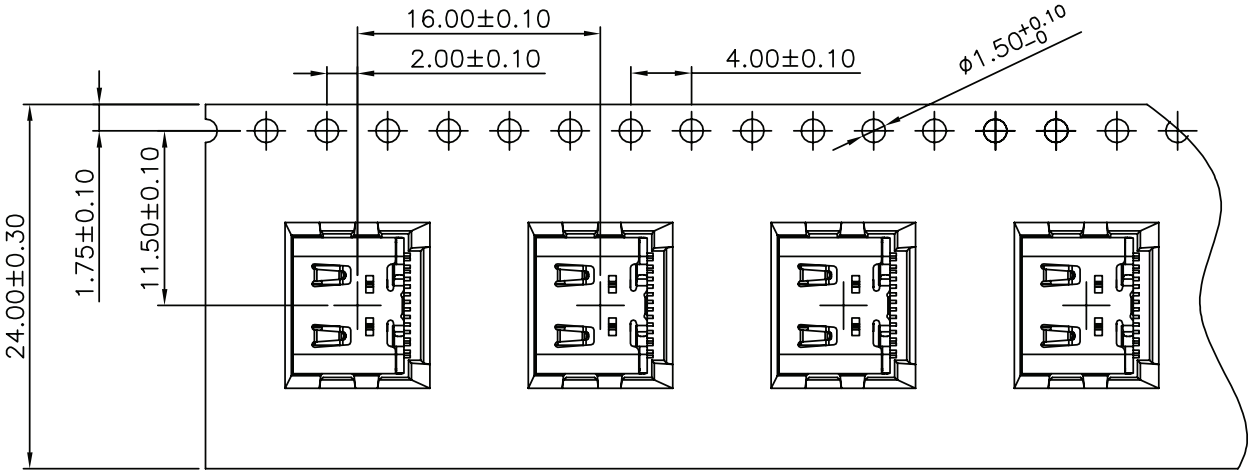

Recommended PCB Layout
Top View

## PACKAGING

units: mm

Reel Size: Ø330 mm
Reel QTY: 800 pcs per reel



## REVISION HISTORY

| rev. | description | date |
|---|---|---|
| 1.0 | initial release | 05/17/2024 |
| 1.01 | 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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