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# MODEL: UJ32-C-V-G-FMT-4-P24 | DESCRIPTION: USB RECEPTACLE

## FEATURES

- USB Type C receptacle
- USB 3.2 Gen 1
- 5 Gbit/s data transfer speed
- reflow solder compatible
- tube packaging

RoHS

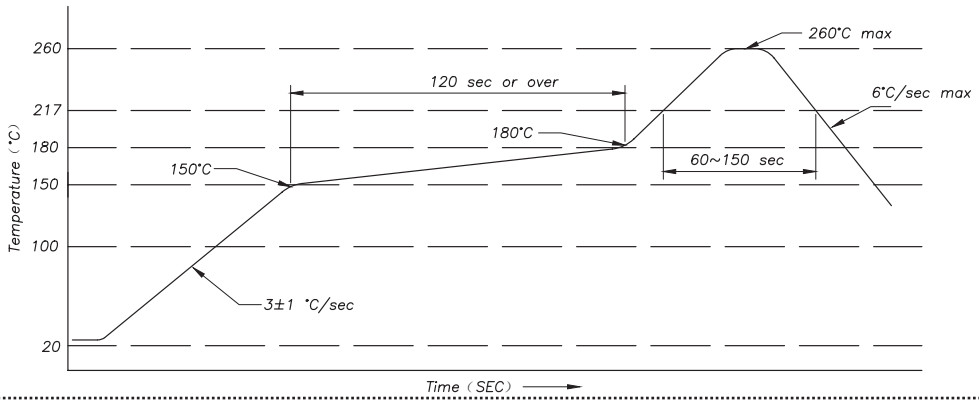
## SPECIFICATIONS

| parameter | conditions/description | min | typ | max | units |
|---|---|---|---|---|---|
| USB standard | USB 3.2 Gen 1 | | | | |
| rated input voltage | | | | 48 | 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 | | | <br>5.0<br>1.25<br>0.25 | <br>A<br>A<br>A |
| contact resistance[1] | between terminals and mating plug | | | 40 | mΩ |
| insulation resistance | at 100 Vdc between adjacent contacts | 100 | | | MΩ |
| voltage withstand | between adjacent contacts for 1 minute | 100 | | | Vac |
| insertion force | at a rate of 30 cycles/min | 5 | | 20 | N |
| withdrawal force | at a rate of 30 cycles/min | 8 | | 20 | N |
| life | at a rate of 500 cycles per hour | | 10,000 | | cycles |
| operating temperature | | -25 | | 85 | °C |
| flammability rating | UL94V-0 | | | | |
| RoHS | yes | | | | |

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

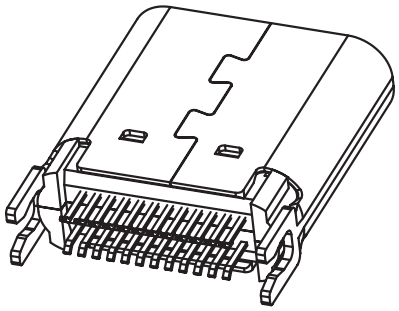
## SOLDERABILITY

| parameter | conditions/description | min | typ | max | units |
|---|---|---|---|---|---|
| reel storage | at 20~30°C, 40~75% humidity | | | | |
| reflow soldering | see reflow profile | | | 260 | °C |

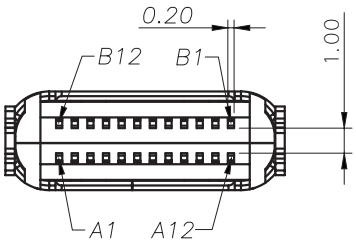


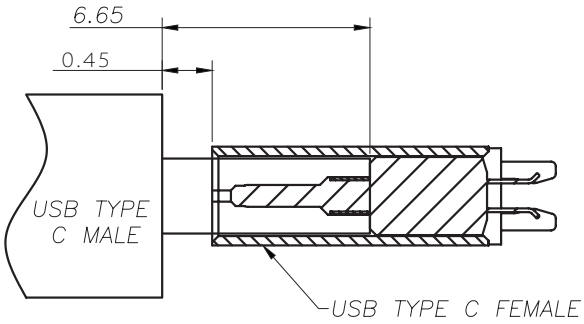
## MECHANICAL DRAWING

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

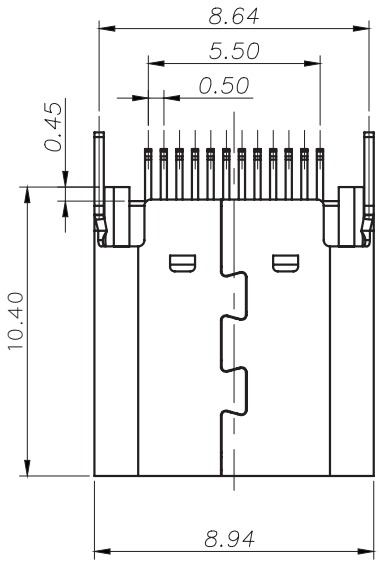


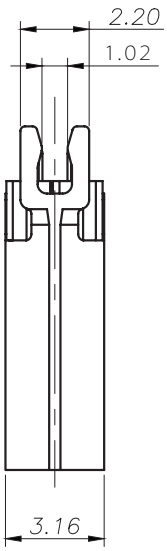
| DESCRIPTION | MATERIAL | PLATING/COLOR |
|---|---|---|
| housing | PA9T (UL94V-0) | black |
| contact | C1815 | contact area: 3 µ" gold over 50 µ" nickel<br>solder area: 3 µ" gold over 50 µ" nickel |
| mid plate | SUS301 | clear |
| front shell | SUS304 | 30 µ" nickel |
| EMI plate | SUS304 | clear |

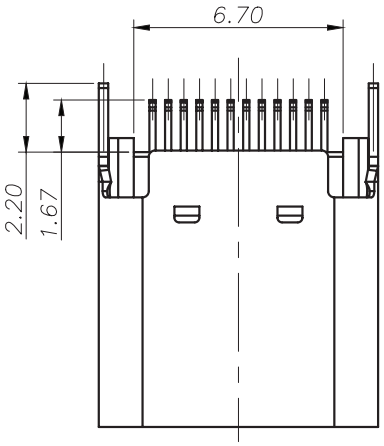


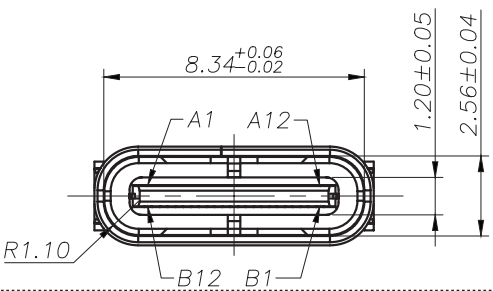




AFTER ASSEMBLY



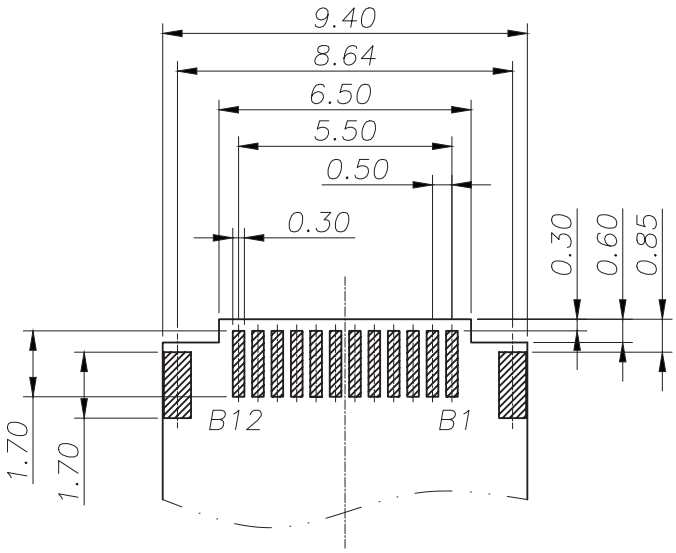



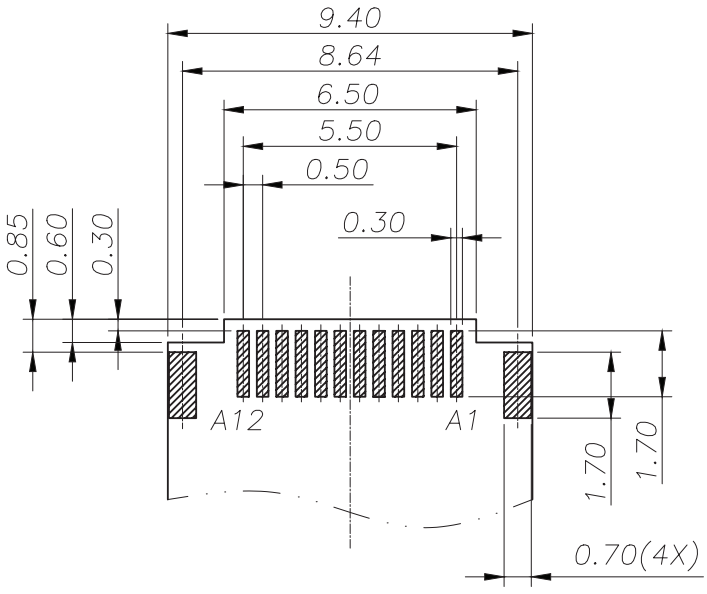
## MECHANICAL DRAWING (CONTINUED)

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

| PIN CONNECTIONS | | | |
|---|---|---|---|
| PIN | SIGNAL NAME | PIN | SIGNAL NAME |
| A1 | GND | B12 | GND |
| A2 | TXp1 | B11 | RXp1 |
| A3 | TXn1 | B10 | RXn1 |
| A4 | VBUS | B9 | VBUS |
| A5 | CC1 | B8 | SBU2 |
| A6 | D+ | B7 | D- |
| A7 | D- | B6 | D+ |
| A8 | SBU1 | B5 | CC2 |
| A9 | VBUS | B4 | VBUS |
| A10 | RXn2 | B3 | TXn2 |
| A11 | RXp2 | B2 | TXp2 |
| A12 | GND | B1 | GND |




Recommended PCB Layout
Bottom View




Recommended PCB Layout
Top View

## REVISION HISTORY

| rev. | description | date |
|---|---|---|
| 1.0 | initial release | 08/01/2024 |
| 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.

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

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