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# MODEL: UJ40-C-H-G-MSMT-2-TR | DESCRIPTION: USB RECEPTACLE

## FEATURES

- USB Type C receptacle
- USB 4.0
- 40 Gbit/s data transfer speed
- reflow solder compatible
- tape & reel packaging

RoHS

## SPECIFICATIONS

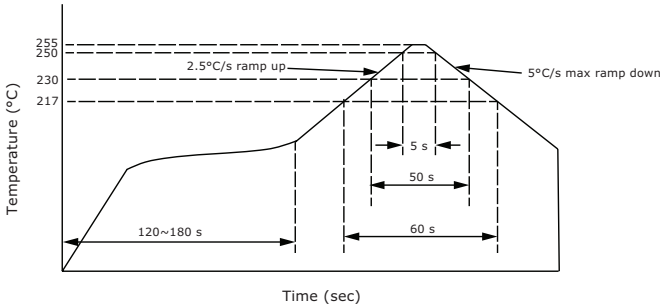
| parameter | conditions/description | min | typ | max | units |
|---|---|---|---|---|---|
| USB standard | USB 4.0 | | | | |
| rated input voltage | standard power range (SPR)<br>extended power range (EPR) | | | 20<br>48 | Vdc<br>Vdc |
| rated input current | as per EIA-364-70, Method B<br>power pins 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 | between adjacent contacts | 100 | | | MΩ |
| voltage withstand | 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 cycles per hour | | 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

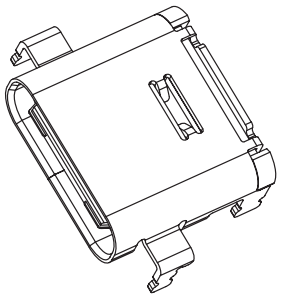
| parameter | conditions/description | min | typ | max | units |
|---|---|---|---|---|---|
| reel storage | at relative humidity 65~70% | 25 | | 30 | °C |
| reflow soldering[3] | see reflow profile | 255 | 255 | 260 | °C |

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%.

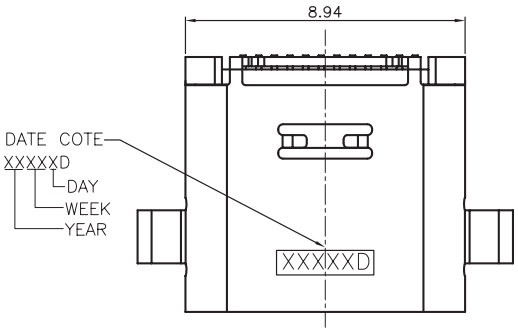


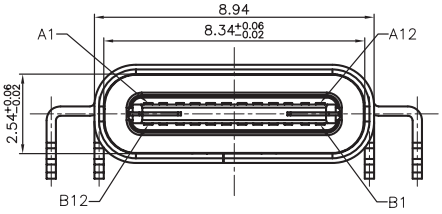
# MECHANICAL DRAWING

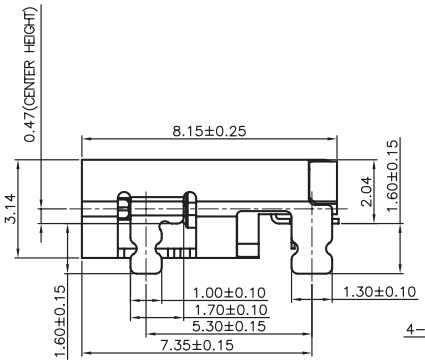
units: mm
tolerance:
X. ±0.50 mm
X.X ±0.30 mm
X.XX ±0.20 mm
X.XXX ±0.10 mm
unless otherwise noted

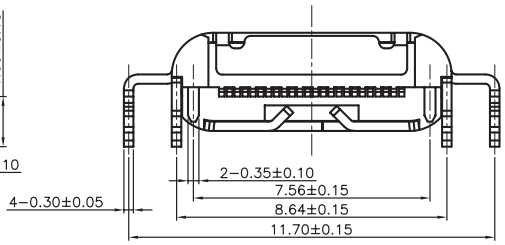


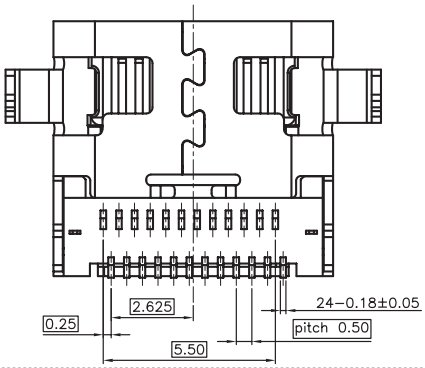
| | MATERIAL | PLATING |
|---|---|---|
| insulator | LCP (UL94V-0) | black |
| contact | copper alloy | contact area: gold flash<br>solder area: matte tin over nickel |
| shell | stainless steel | nickel |
| inner ground cover shell | stainless steel | clean |
| mid plate | stainless steel | clean |

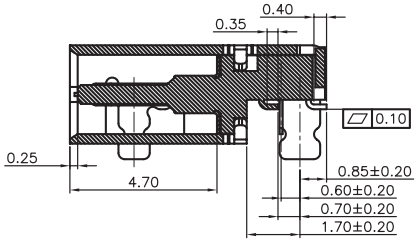


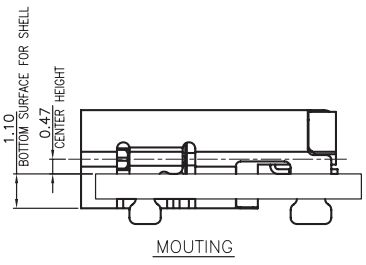



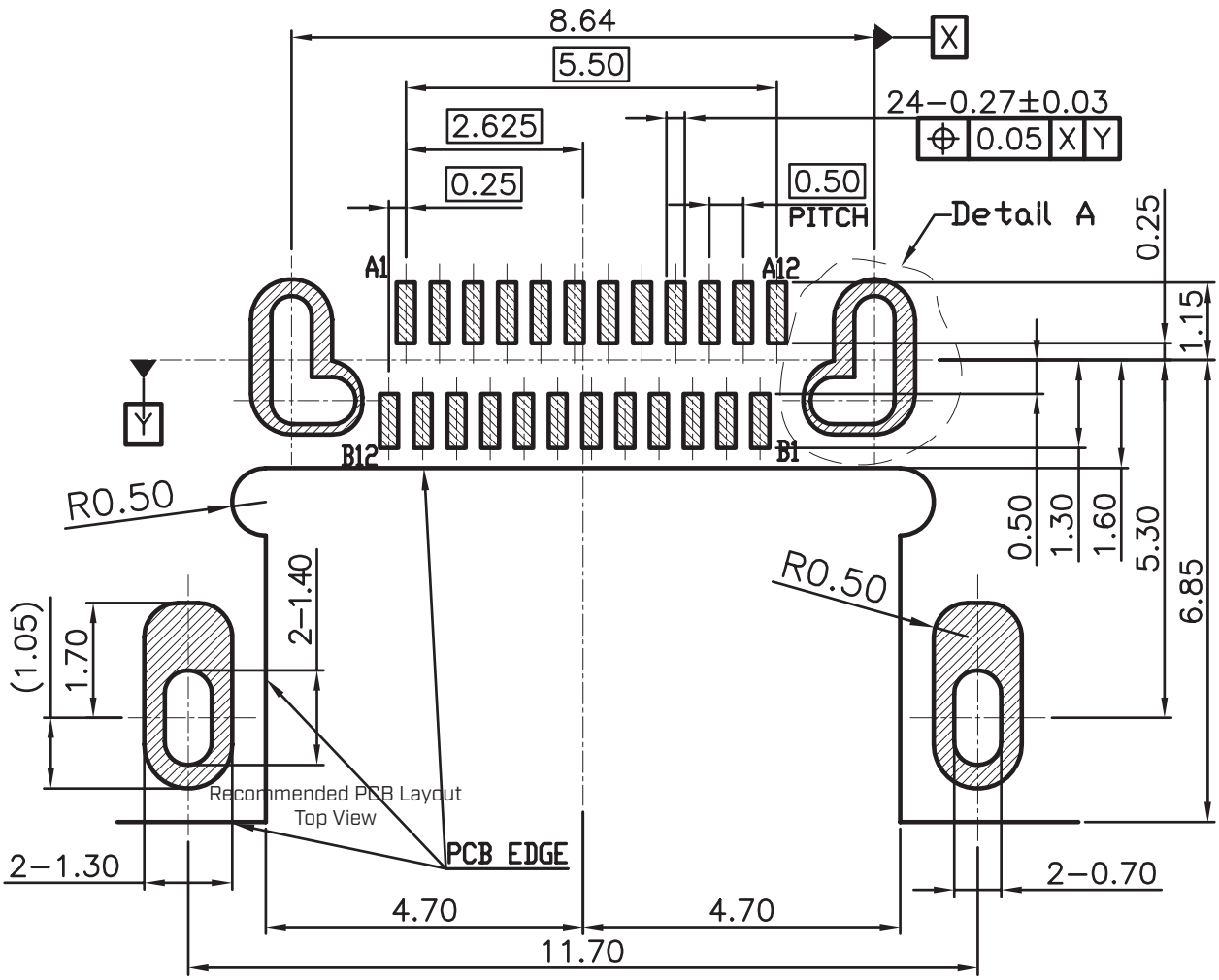



## MECHANICAL DRAWING (CONTINUED)

units: mm
PCB tolerance: ±0.05 mm
PCB thickness: 1.2 mm

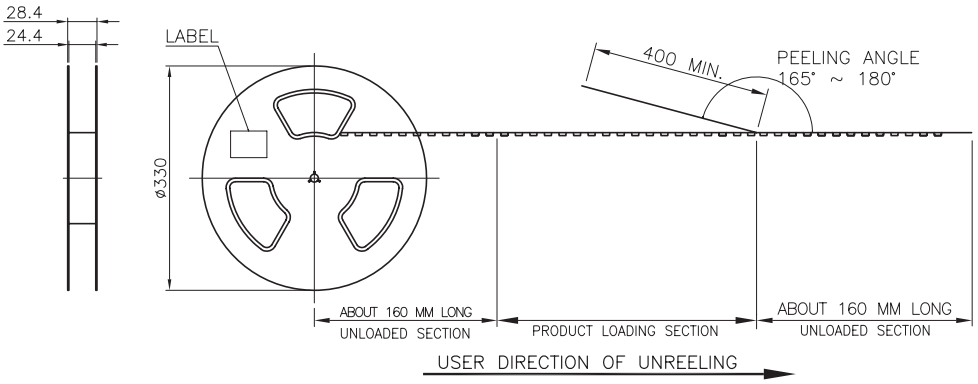
| PIN CONNECTIONS | | | | | |
|---|---|---|---|---|---|
| PIN | SIGNAL NAME | MATING SEQUENCE | PIN | SIGNAL NAME | MATING SEQUENCE |
| A1 | GND | FIRST | B12 | GND | FIRST |
| A2 | SSTXp1 | SECOND | B11 | SSRXp1 | SECOND |
| A3 | SSTXn1 | SECOND | B10 | SSRXn1 | SECOND |
| A4 | $V_{BUS}$ | FIRST | B9 | $V_{BUS}$ | 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 | $V_{BUS}$ | FIRST | B4 | $V_{BUS}$ | FIRST |
| A10 | SSRXn2 | SECOND | B3 | SSTXn2 | SECOND |
| A11 | SSRXp2 | SECOND | B2 | SSTXp2 | SECOND |
| A12 | GND | FIRST | B1 | GND | FIRST |
| SHELL | | GND | SHELL | | GND |

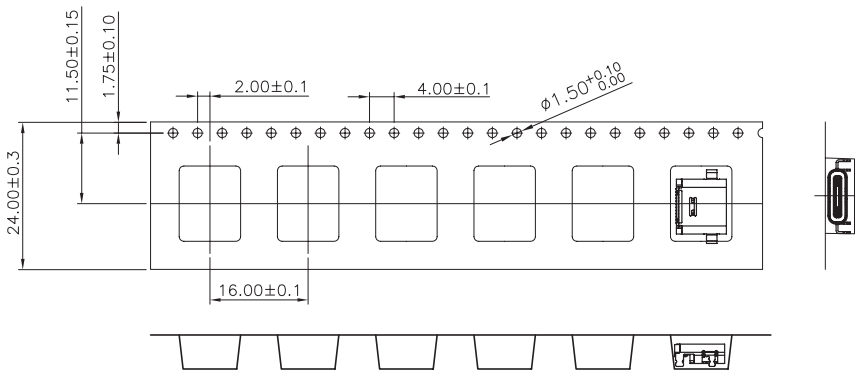


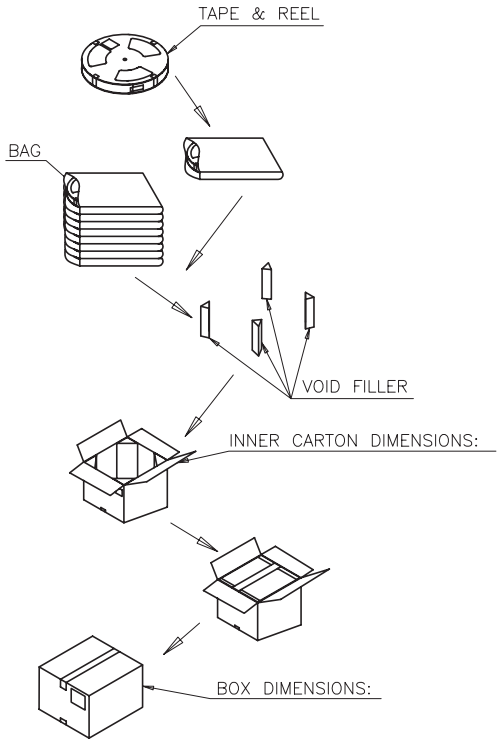
## PACKAGING

units: mm

Reel Size: Ø330 mm
Reel QTY: 1,100 pcs per reel
Carton Size: 405 x 405 x 330
Carton QTY: 8,800 pcs



## REVISION HISTORY

| rev. | description | date |
|---|---|---|
| 1.0 | initial release | 06/15/2022 |
| 1.01 | logo, datasheet style update | 08/05/2022 |
| 1.02 | 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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