

**MODEL:** UJ32-C-H-G-H2-SMT-TR | **DESCRIPTION:** USB RECEPTACLE**FEATURES**

- USB Type C receptacle
- USB 3.2 Gen 2x2
- 20 Gbit/s data transfer speed
- reflow solder compatible
- tape & reel packaging

**SPECIFICATIONS**

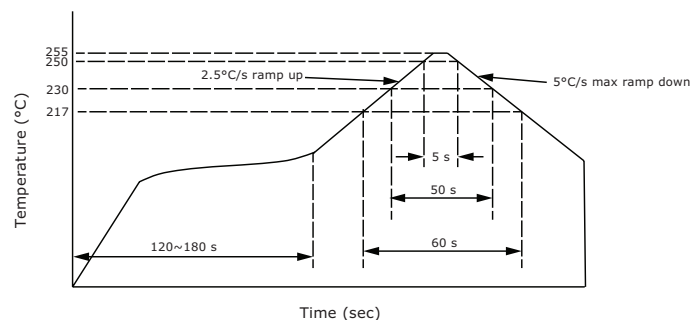
| parameter                       | conditions/description  | min | typ    | max                 | units       |
|---------------------------------|---|-----|--------|---------------------|-------------|
| USB standard                    | USB 3.2 Gen 2x2   |     |        |                     |             |
| 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 <sup>1</sup> | 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**

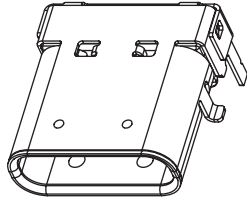
| parameter                     | conditions/description      | min | typ | max | units |
|-------------------------------|-----------------------------|-----|-----|-----|-------|
| reel storage                  | at relative humidity 65~70% | 25  |     | 30  | °C    |
| reflow soldering <sup>3</sup> | 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%.

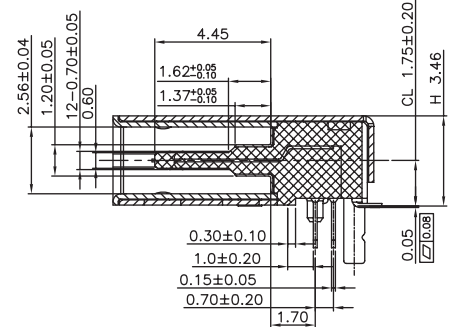
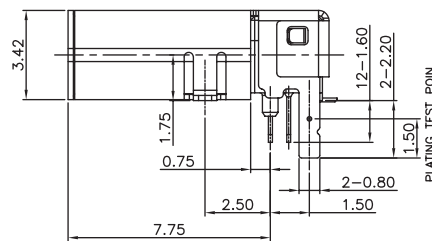
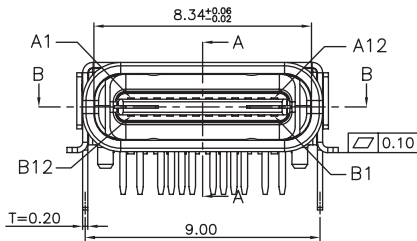
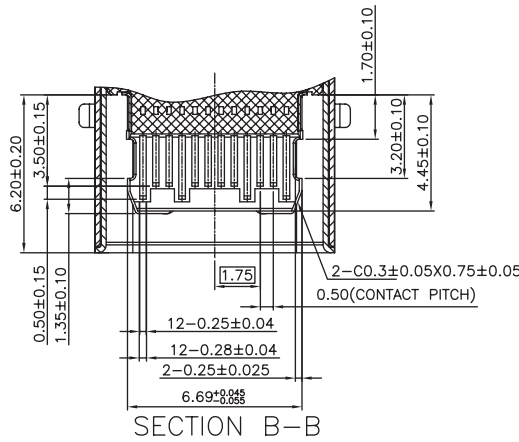
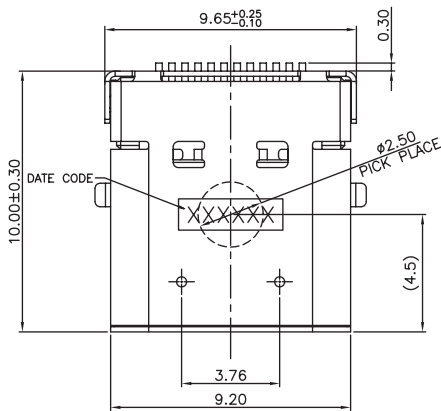


# MECHANICAL DRAWING

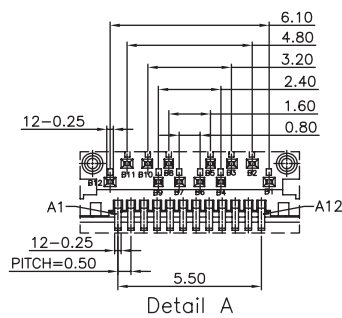
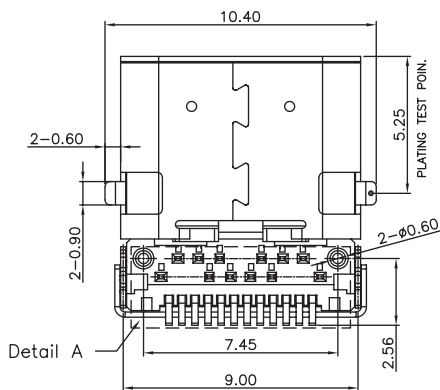
units: mm  
 tolerance:  
 X. ±0.50 mm  
 X.X ±0.30 mm  
 X.XX ±0.20 mm  
 X.XXX ±0.10 mm  
 unless otherwise noted



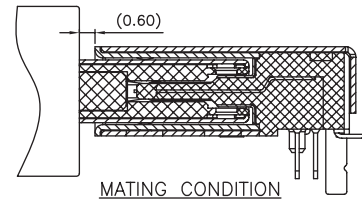
|                             | MATERIAL        | PLATING   |
|-----------------------------|-----------------|---|
| insulator                   | LCP (UL94V-0)   | black   |
| contact                     | copper alloy    | contact area: gold flash<br>solder area: matte tin<br>over nickel |
| shell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



SECTION A-A



Detail A

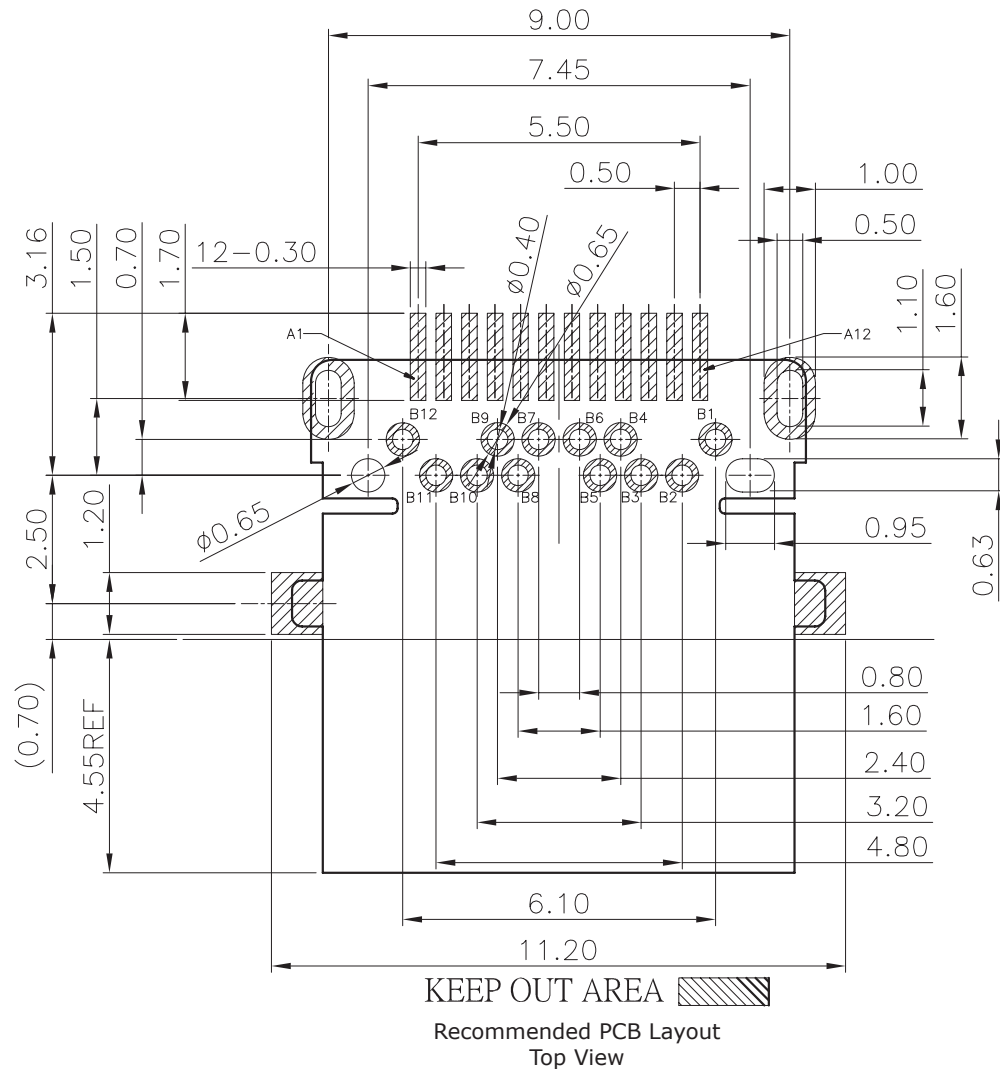


MATING CONDITION

## MECHANICAL DRAWING (CONTINUED)

units: mm  
 PCB tolerance:  $\pm 0.05$  mm  
 PCB thickness: 1.6 mm

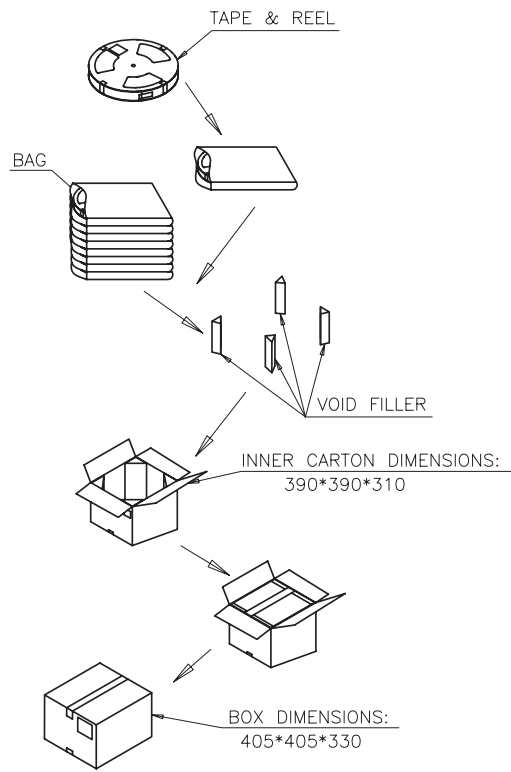
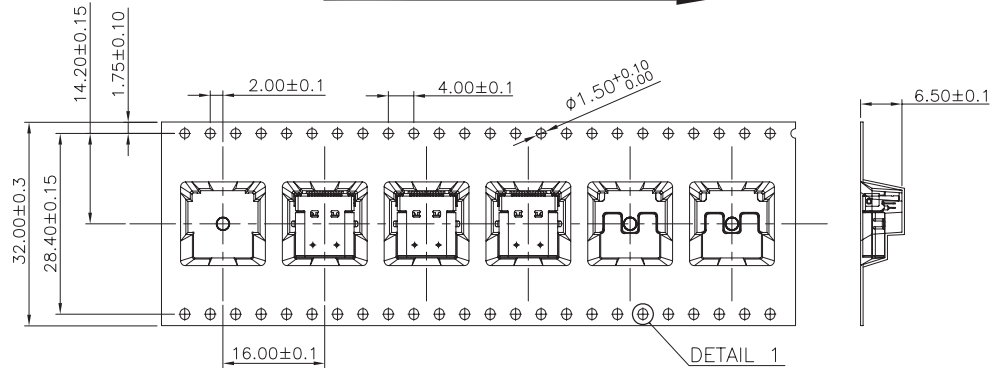
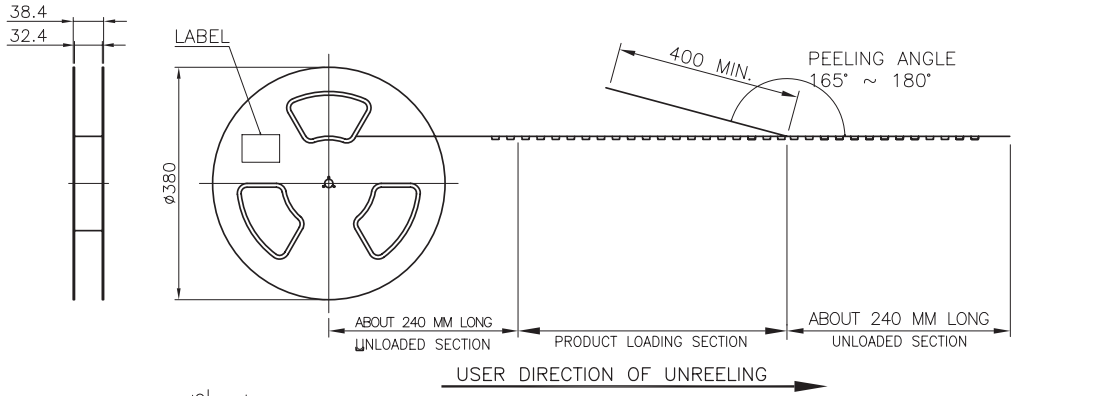
| PIN CONNECTIONS |                  |                 |       |                  |                 |
|-----------------|------------------|-----------------|-------|------------------|-----------------|
| PIN             | SIGNAL NAME      | MATING SEQUENCE | PIN   | SIGNAL NAME      | MATING SEQUENCE |
| A1              | GND              | FIRST           | B12   | GND              | FIRST           |
| A2              | SSTXp1           | SECOND          | B11   | SSRXp1           | SECOND          |
| A3              | SSTXn1           | SECOND          | B10   | SSRXn1           | SECOND          |
| A4              | V <sub>BUS</sub> | FIRST           | B9    | V <sub>BUS</sub> | 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 <sub>BUS</sub> | FIRST           | B4    | V <sub>BUS</sub> | 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: Ø380 mm  
 Reel QTY: 900 pcs per reel  
 Carton Size: 405 x 405 x 330 mm  
 Carton QTY: 7,200 pcs



## REVISION HISTORY

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| rev. | description     | date       |
|------|-----------------|------------|
| 1.0  | initial release | 06/15/2022 |

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

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