

**MODEL:** UJ32-C-H-MSMT-TR-68 | **DESCRIPTION:** USB RECEPTACLE

**FEATURES**

- USB Type C receptacle
- IP68
- USB 3.2 gen 1
- o-ring accessory
- tape & reel packaging


**SPECIFICATIONS**

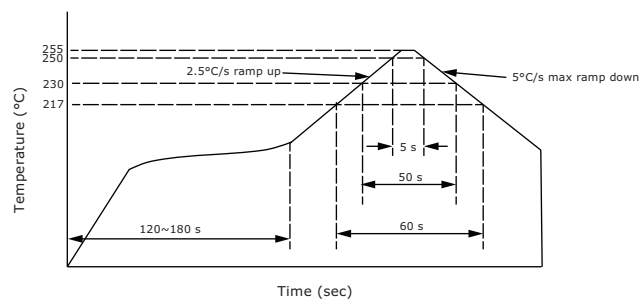
| parameter                       | conditions/description                                     | min | typ    | max  | units  |
|---------------------------------|------------------------------------------------------------|-----|--------|------|--------|
| USB standard                    | USB 3.2 Gen 1                                              |     |        |      |        |
| rated input voltage             |                                                            |     |        | 20   | Vdc    |
| rated input current             | as per EIA-364-70, Method B                                |     |        |      |        |
|                                 | power pins collectively [A1, A4, A9, A12, B1, B4, B9, B12] |     |        | 5.0  | 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           | between adjacent contacts                                  | 100 |        |      | MΩ     |
| voltage withstand               | between adjacent contacts                                  | 100 |        |      | Vac    |
| insertion force                 |                                                            | 5   |        | 20   | N      |
| withdrawal force                |                                                            | 8   |        | 20   | N      |
| life                            |                                                            |     | 10,000 |      | cycles |
| operating temperature           |                                                            | -25 |        | 85   | °C     |
| flammability rating             | UL94V-0                                                    |     |        |      |        |
| RoHS                            | yes                                                        |     |        |      |        |
| IP level                        | IP68                                                       |     |        |      |        |

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**

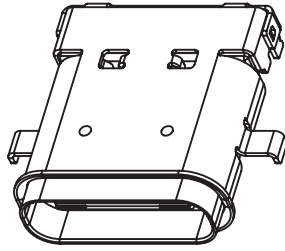
| parameter                     | conditions/description      | min | typ | max | units |
|-------------------------------|-----------------------------|-----|-----|-----|-------|
| reel storage                  | at relative humidity 65~70% | 25  |     | 30  | °C    |
| reflow soldering <sup>3</sup>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

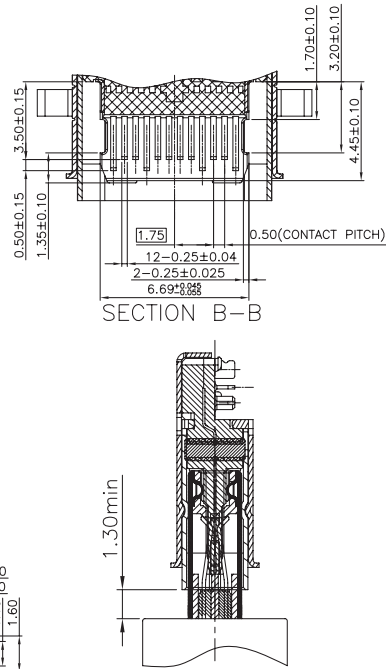
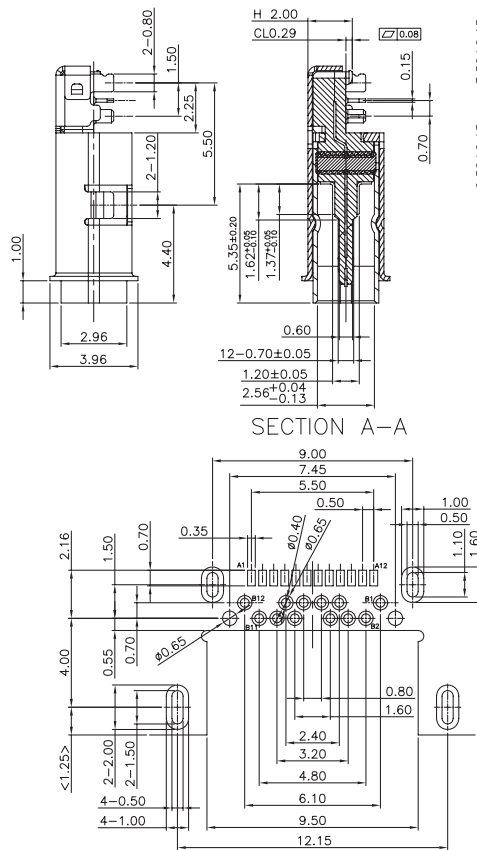
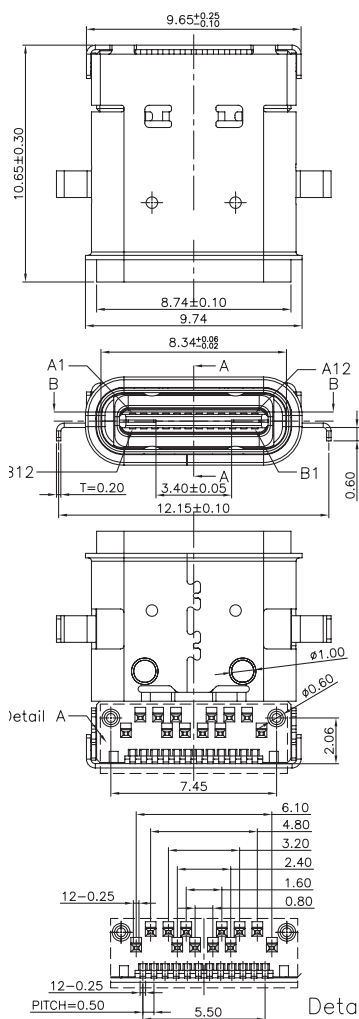


## MECHANICAL DRAWING

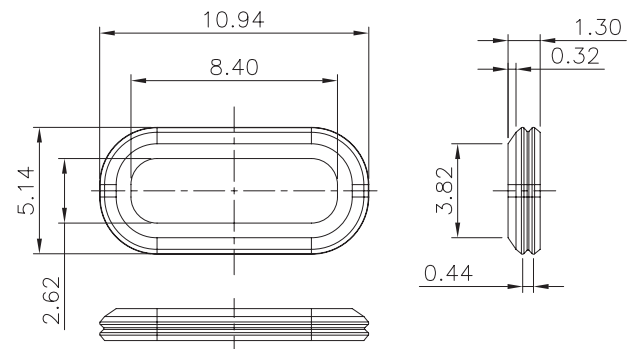
units: mm  
 tolerance:  
 X,  $\pm 0.50$  mm  
 X.X  $\pm 0.30$  mm  
 X.XX  $\pm 0.20$  mm  
 X.XXX  $\pm 0.10$  mm  
 unless otherwise specified



| DESCRIPTION | MATERIAL                     | PLATING/COLOR                                                               |
|-------------|------------------------------|-----------------------------------------------------------------------------|
| insulator   | LCP [UL94V-0]                | black                                                                       |
| contact     | copper alloy<br>t=0.15 mm    | contact area: gold<br>flash over nickel-tin<br>solder area: tin over nickel |
| shell       | stainless steel<br>t=0.20 mm | nickel                                                                      |
| o-ring      | silicone                     | black                                                                       |



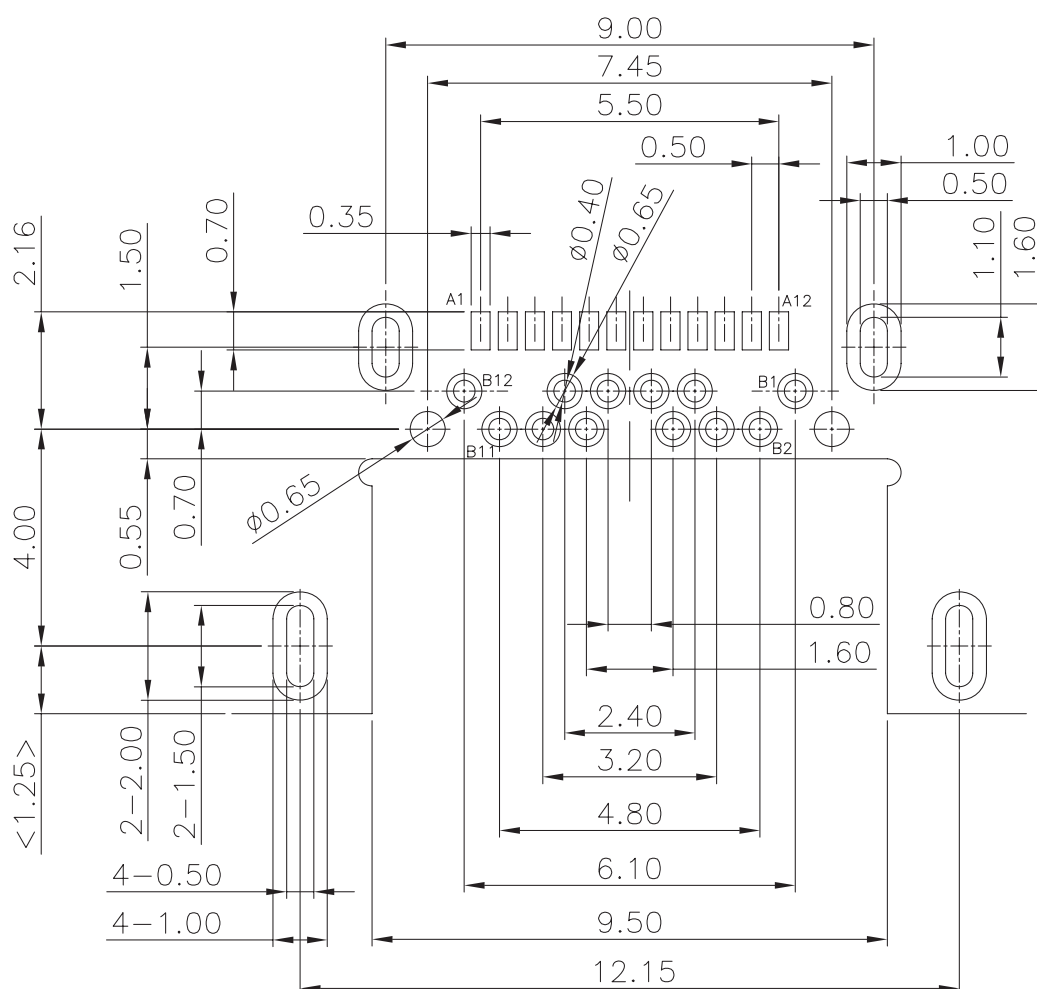
O-ring



## MECHANICAL DRAWING (CONTINUED)

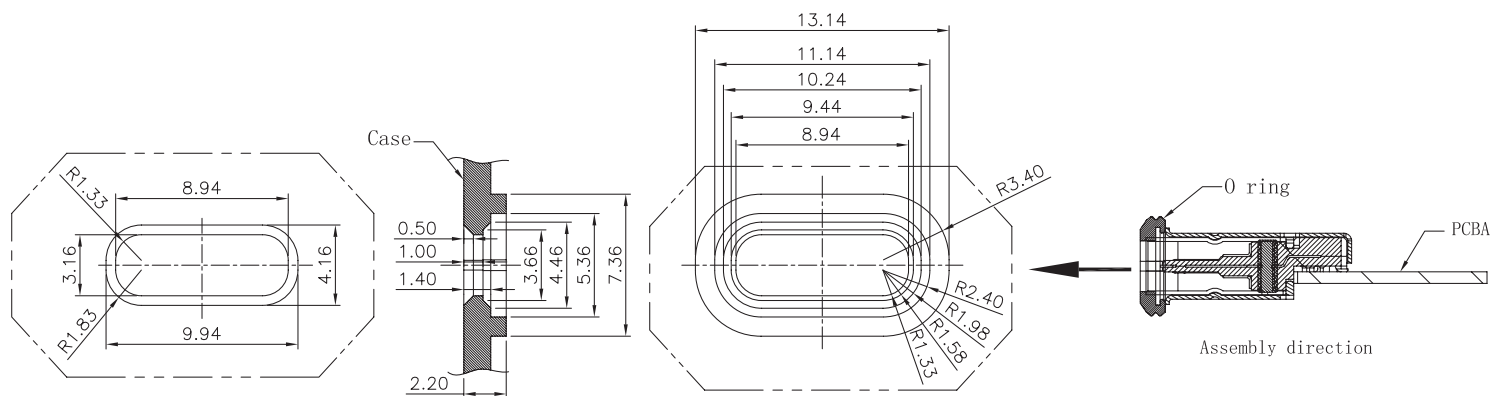
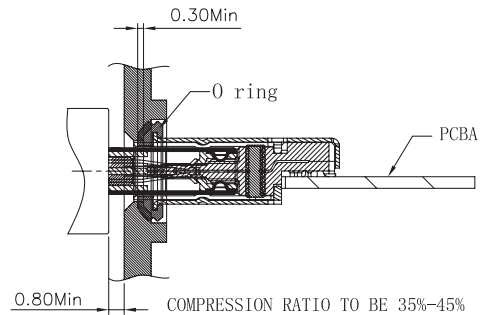
units: mm  
PCB tolerance:  $\pm 0.05$  mm

| 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             |



Recommended PCB Layout  
Top View

## ASSEMBLY REFERENCE



RECOMMENDED OPEN DIMENSION OF CASE  
TOLERANCE:  $\pm 0.03\text{mm}$   
MATING AREA WITH SEALING RING

## PACKAGING

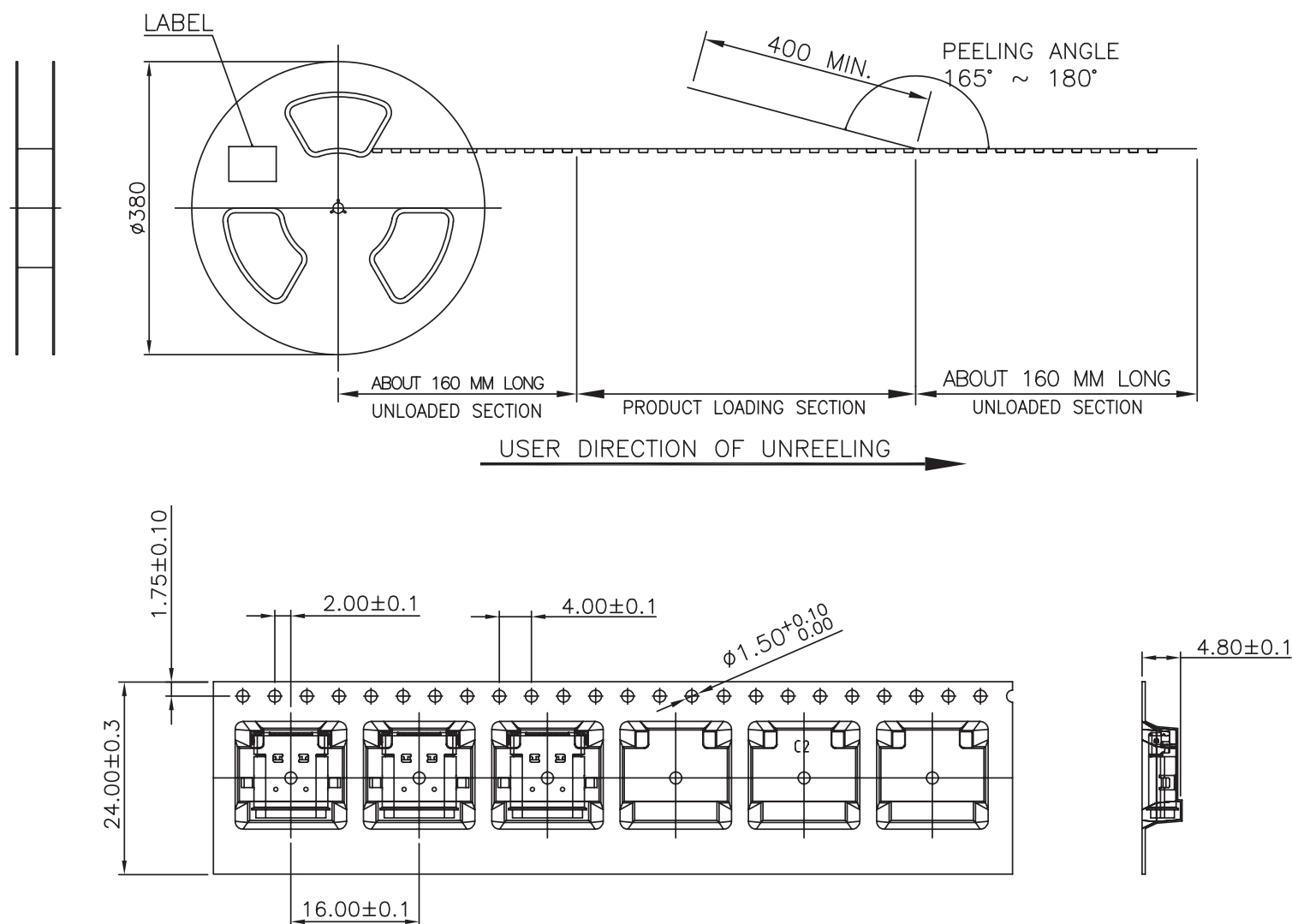
units: mm

Reel Size:  $\varnothing 380$  mm

Reel QTY: 1,000 pcs per reel

Carton Size: 405 x 405 x 330 mm

Carton QTY: 10,000 pcs



## REVISION HISTORY

| rev. | description     | date       |
|------|-----------------|------------|
| 1.0  | initial release | 08/22/2023 |

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



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