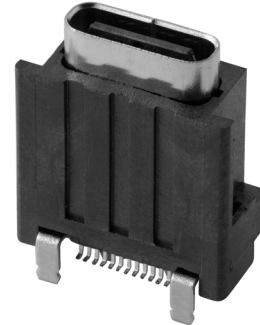


**MODEL:** UJ32-C-V-G-SMT-TR | **DESCRIPTION:** USB RECEPTACLE**FEATURES**

- USB Type C receptacle
- USB 3.2 Gen 2x2
- 20 Gbit/s data transfer speed
- reflow solder compatible
- vertical mount
- 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                                |     |        |      |        |
|                                 | 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                 | 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:

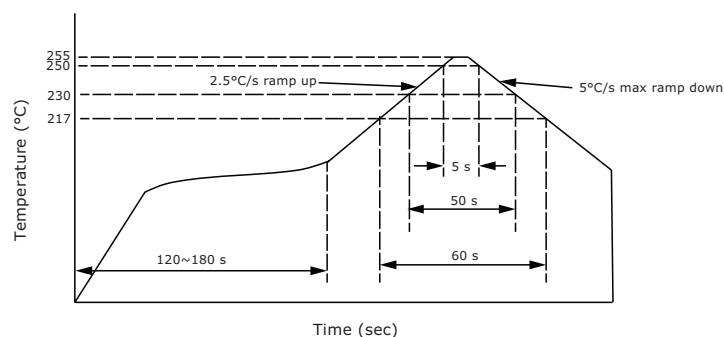
1. When measured at 20 mV / 100 mA.
2. All specifications measured at 10-35°C, humidity at 45-85%, under standard atmospheric pressure, unless otherwise noted.

**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:

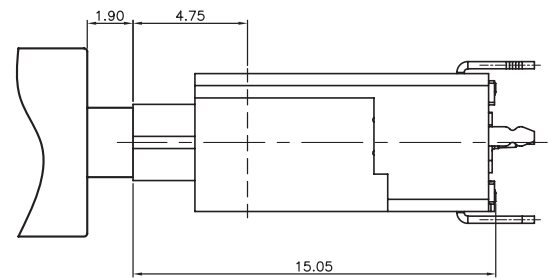
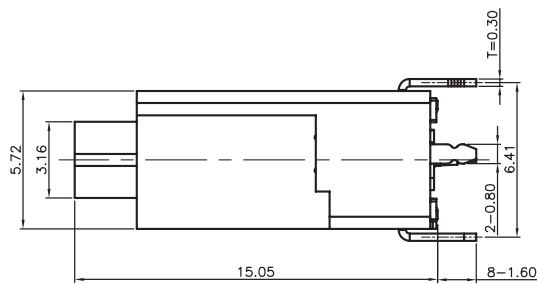
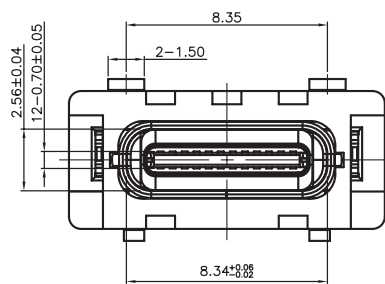
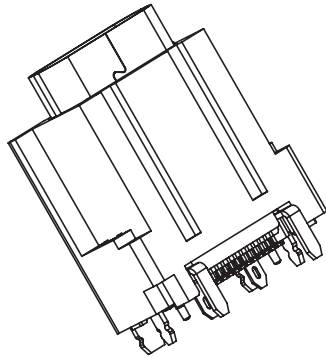
3. It is recommended to reflow solder within 3 months from opening vacuum packaging at a temperature of 25-30°C & relative humidity 65-70%.



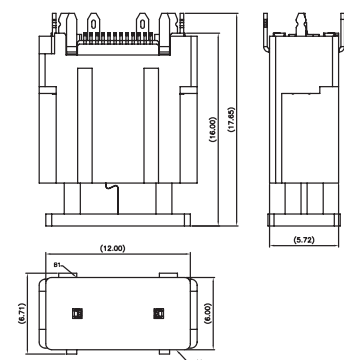
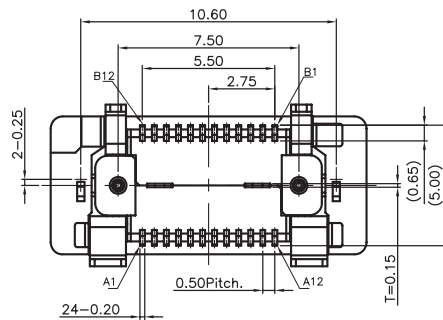
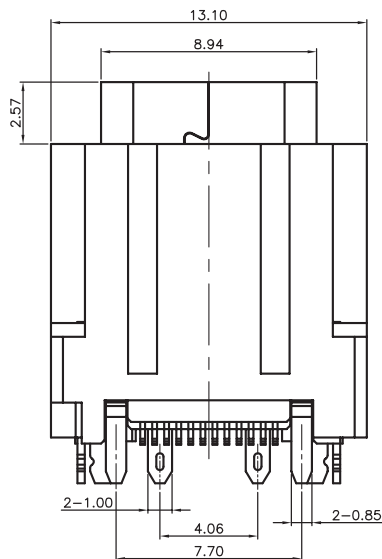
## MECHANICAL DRAWING

units: mm  
tolerance:  
X.  $\pm 0.50$  mm  
X.X  $\pm 0.30$  mm  
X.XX  $\pm 0.20$  mm  
X.XXX  $\pm 0.10$  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                                                         |



MATING CONDITION



INCREASE THE DIAGRAMS OF CAP

SC 1:2

units: mm  
PCB tolerance:  $\pm 0.05$  mm  
PCB thickness: 1.2 mm

### Recommended PCB Layout

## PACKAGING

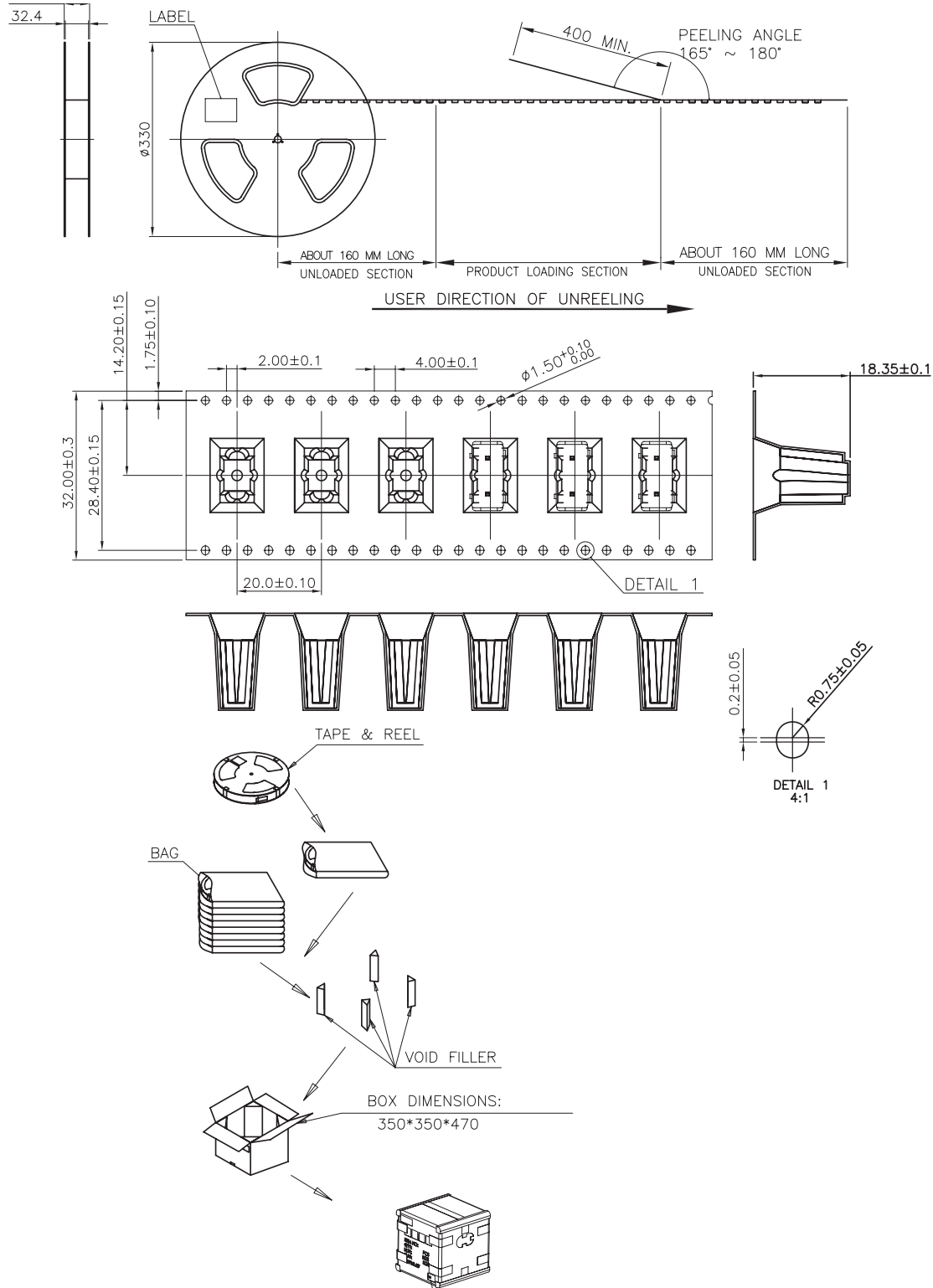
units: mm

Reel Size:  $\varnothing 330$  mm

Reel QTY: 150 pcs per reel

Carton Size: 350 x 350 x 470 mm

Carton QTY: 1,850 pcs



## REVISION HISTORY

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

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



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