


**MODEL:** UJ31-CH-G1-SMT-TR | **DESCRIPTION:** USB RECEPTACLE

**FEATURES**

- USB Type C receptacle
- USB 3.1
- 10 Gbit/s data transfer speed
- reflow solder compatible
- tape & reel packaging


**SPECIFICATIONS**

| parameter                       | conditions/description                   | min | typ    | max  | units  |
|---------------------------------|------------------------------------------|-----|--------|------|--------|
| rated input voltage             |                                          |     |        | 20   | Vac    |
| rated input current             | as per EIA-364-70, Method B              |     |        |      |        |
|                                 | power pins collectively (A4, A9, B4, B9) |     |        | 5.0  | A      |
|                                 | GND pins collectively (A1, A12, B1, B12) |     |        | 6.25 | 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 500 ± 50 cycles per hour    |     | 10,000 |      | cycles |
| operating temperature           |                                          | -25 |        | 85   | °C     |
| flammability rating             | UL94V-0                                  |     |        |      |        |
| RoHS                            | 2011/65/EU                               |     |        |      |        |

Note:

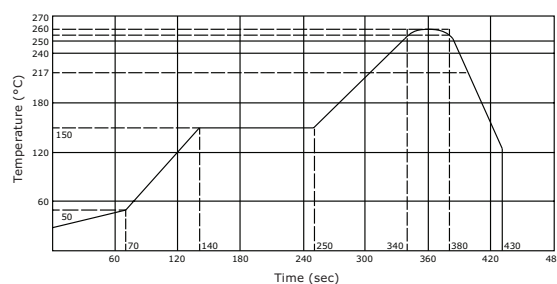
1. When measured at 20 mV / 100 mA.
2. All specifications measured at 10~35°C, humidity at 45~85%, under standard atmospheric pressure, unless otherwise noted.

**SOLDERABILITY**

| parameter                      | conditions/description                                                                                   | min | typ | max | units |
|--------------------------------|----------------------------------------------------------------------------------------------------------|-----|-----|-----|-------|
| reel storage                   | at relative humidity <80%                                                                                |     |     | 40  | °C    |
| reflow soldering <sup>3</sup>  | see reflow profile                                                                                       | 255 | 260 | 265 | °C    |
| drying conditions <sup>4</sup> | parts in reel: bake at 40°C ±5°C for 72 hours<br>parts removed from reel: bake at 40°C ±5°C for 10 hours |     |     |     |       |

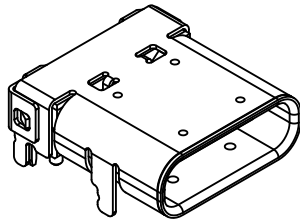
Note:

3. It is recommended to reflow solder within 72 hours from opening vacuum packaging at a temperature <30°C & relative humidity <60%.
4. When exceeding floor life by >72 hours.

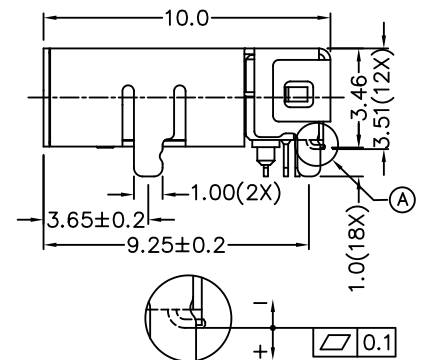
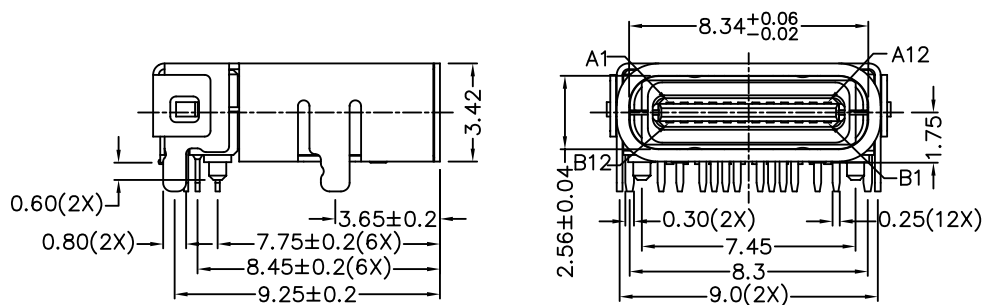


## MECHANICAL DRAWING

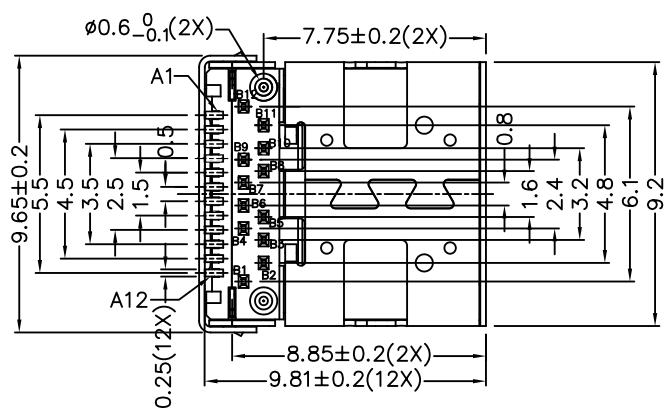
units: mm  
tolerance:  
X.X  $\pm 0.2$  mm  
X.XX  $\pm 0.10$  mm  
X.XXX  $\pm 0.050$  mm



|                             | MATERIAL        | PLATING                                   |
|-----------------------------|-----------------|-------------------------------------------|
| contact terminals           | copper alloy    | contact: gold flash<br>solder: gold flash |
| shell                       | brass           | nickel                                    |
| cover shell                 | stainless steel | nickel                                    |
| inner ground<br>cover shell | stainless steel |                                           |
| mid plate                   | stainless steel | nickel                                    |
| insulator                   | PA10T           |                                           |



A DETAIL COPLANARITY



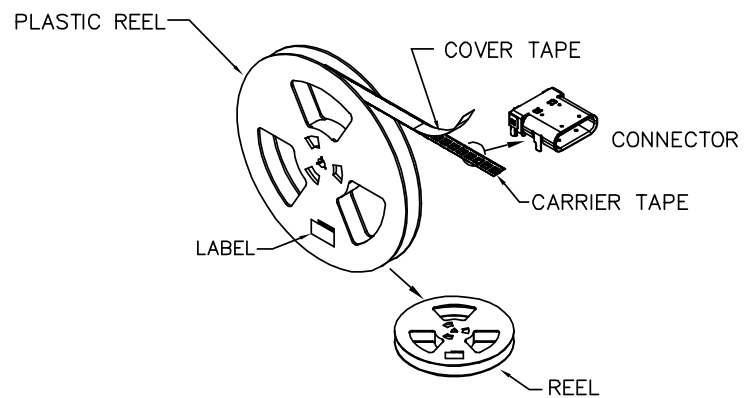
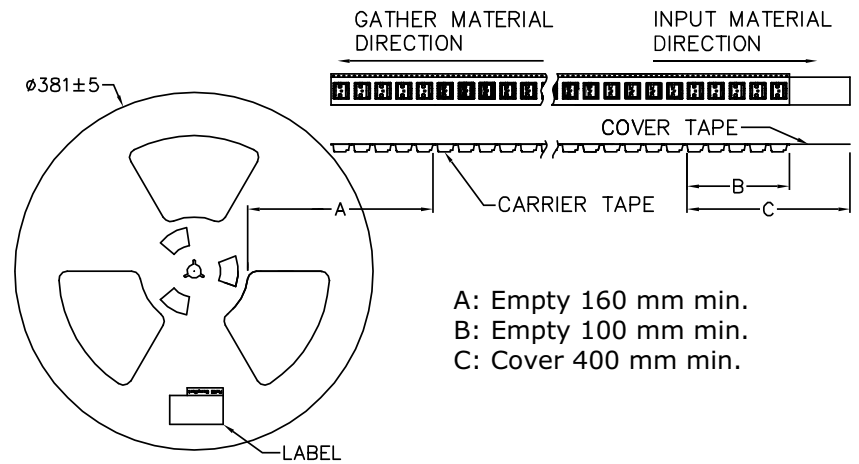
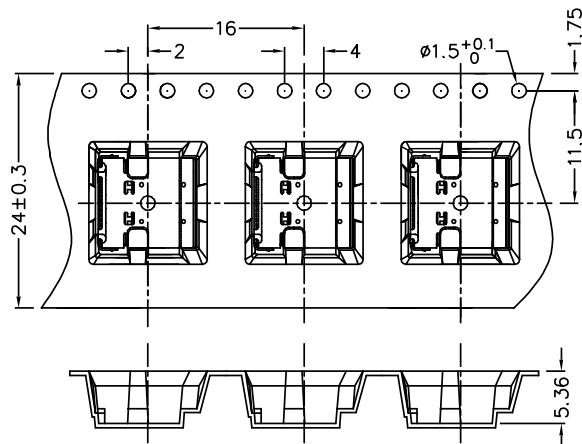


## PACKAGING

units: mm

Reel Size:  $\varnothing 381$  mm

Reel QTY: 1,050 pcs per reel



## REVISION HISTORY

| rev. | description       | date       |
|------|-------------------|------------|
| 1.0  | initial release   | 12/19/2017 |
| 1.01 | updated datasheet | 01/30/2018 |

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

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