

**MODEL:** UJ32-C-H-G-MSMT-1-P24-TR | **DESCRIPTION:** USB RECEPTACLE**FEATURES**

- USB Type C receptacle
- USB 3.2 Gen 1
- 5 Gbit/s data transfer speed
- reflow solder compatible
- tape & reel packaging

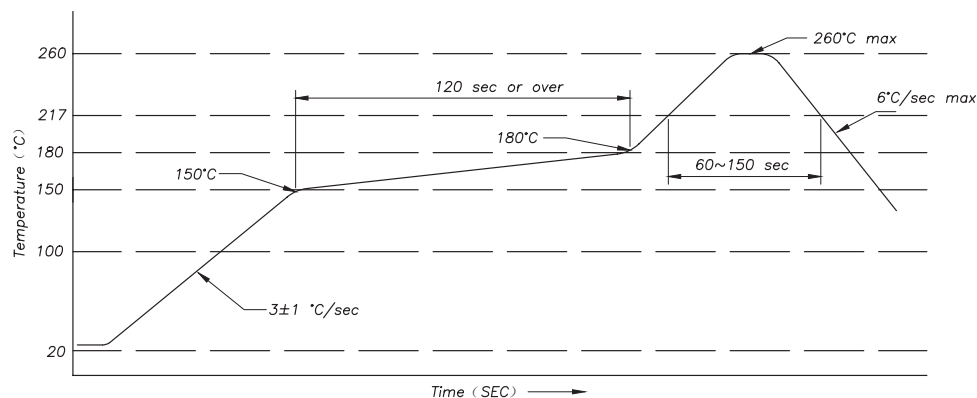
**SPECIFICATIONS**

| parameter                       | conditions/description                                     | min | typ    | max  | units  |
|---------------------------------|------------------------------------------------------------|-----|--------|------|--------|
| USB standard                    | USB 3.2 Gen 1                                              |     |        |      |        |
| rated input voltage             |                                                            |     |        | 48   | 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           | at 100 Vdc between adjacent contacts                       | 100 |        |      | MΩ     |
| voltage withstand               | between adjacent contacts for 1 minute                     | 100 |        |      | Vac    |
| insertion force                 | at a rate of 30 cycles/min                                 | 5   |        | 20   | N      |
| withdrawal force                | at a rate of 30 cycles/min                                 | 8   |        | 20   | N      |
| life                            | at a rate of 500 cycles per hour                           |     | 10,000 |      | cycles |
| operating temperature           |                                                            | -25 |        | 85   | °C     |
| flammability rating             | UL94V-0                                                    |     |        |      |        |
| RoHS                            | yes                                                        |     |        |      |        |

Note: 1. When measured at 20 mV / 100 mA.

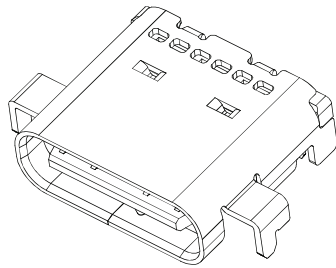
**SOLDERABILITY**

| parameter        | conditions/description      | min | typ | max | units |
|------------------|-----------------------------|-----|-----|-----|-------|
| reel storage     | at 20~30°C, 40~75% humidity |     |     |     |       |
| reflow soldering | see reflow profile          |     |     | 260 | °C    |

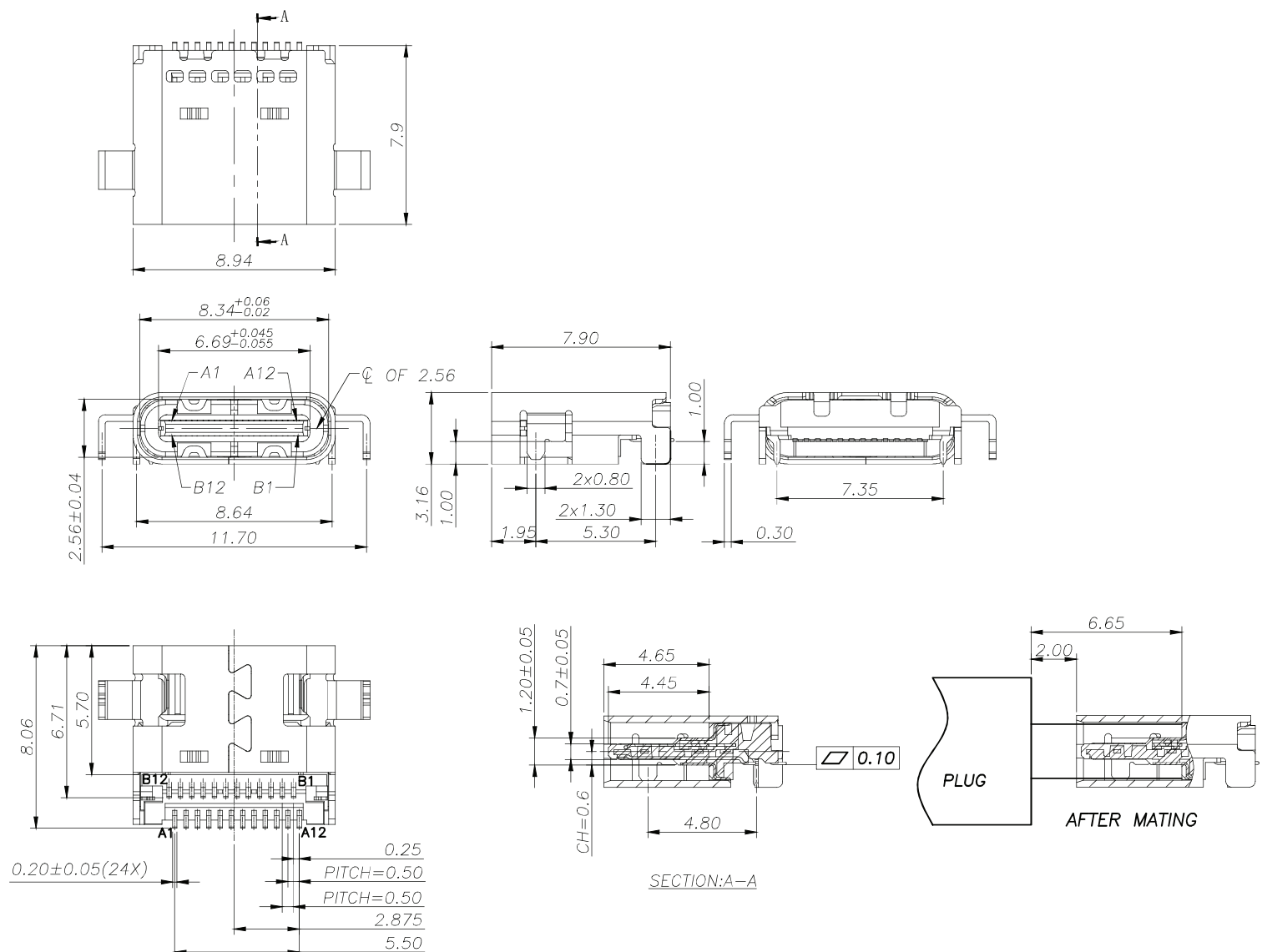


# MECHANICAL DRAWING

units: mm  
tolerance:  
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                                                                                                   |
|-------------|-----------------|-----------------------------------------------------------------------------------------------------------------|
| housing     | PA9T [UL94V-0]  | black                                                                                                           |
| contact     | C18150          | contact area: 3 $\mu$ " gold<br>over 50 $\mu$ " nickel<br>solder area: 1 $\mu$ " gold<br>over 50 $\mu$ " nickel |
| mid plate   | stainless steel | 30 $\mu$ " nickel                                                                                               |
| front shell | stainless steel | 30 $\mu$ " nickel                                                                                               |
| emi plate   | stainless steel | 30 $\mu$ " nickel                                                                                               |



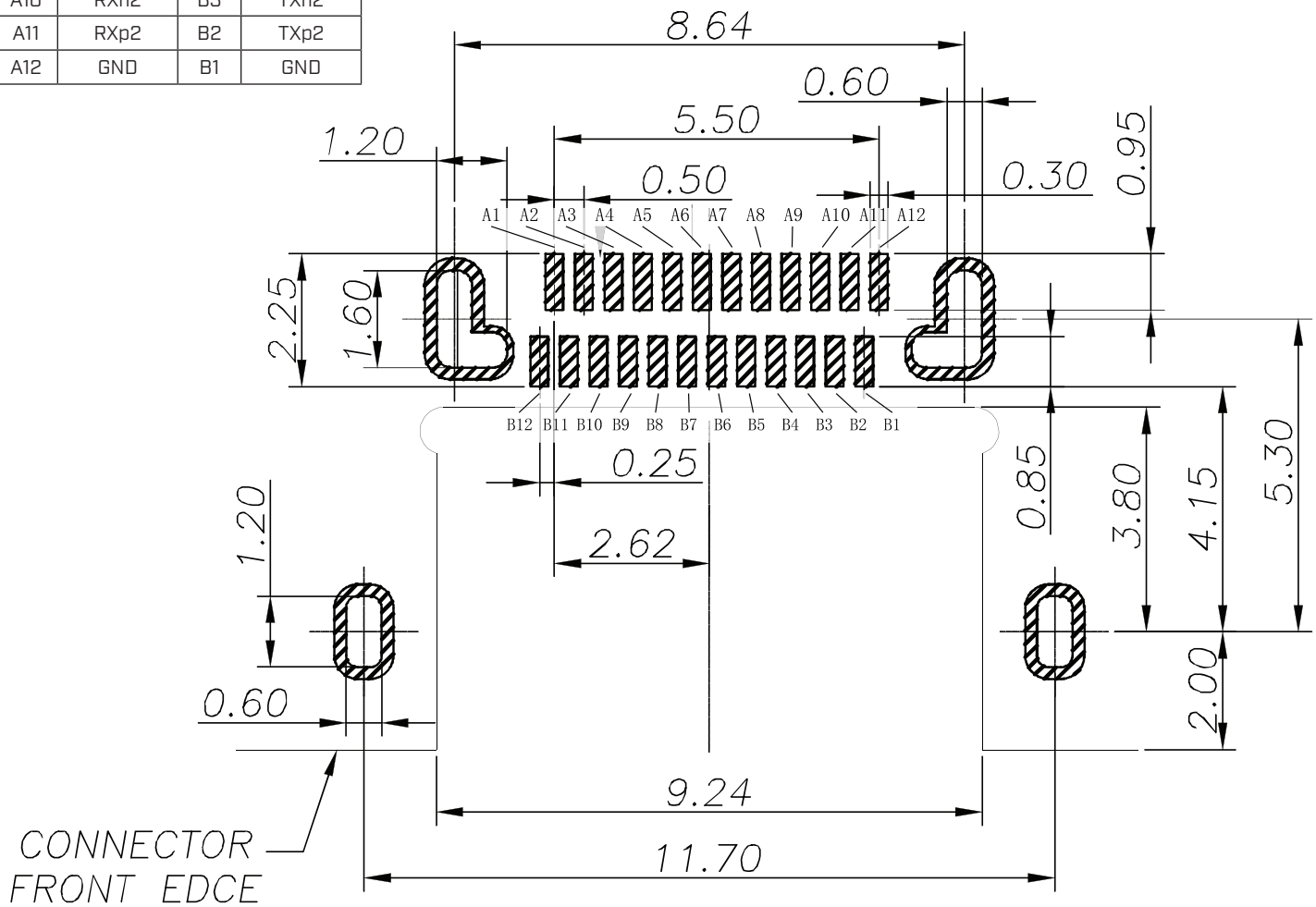
## MECHANICAL DRAWING (CONTINUED)

units: mm

PCB tolerance:  $\pm 0.05$  mm

PCB thickness: 0.60 mm

| PIN CONNECTIONS |             |     |             |
|-----------------|-------------|-----|-------------|
| PIN             | SIGNAL NAME | PIN | SIGNAL NAME |
| A1              | GND         | B12 | GND         |
| A2              | TXp1        | B11 | RXp1        |
| A3              | TXn1        | B10 | RXn1        |
| A4              | VBUS        | B9  | VBUS        |
| A5              | CC1         | B8  | SBU2        |
| A6              | Dp1         | B7  | Dn2         |
| A7              | Dn1         | B6  | Dp2         |
| A8              | SBU1        | B5  | CC2         |
| A9              | VBUS        | B4  | VBUS        |
| A10             | RXn2        | B3  | TXn2        |
| A11             | RXp2        | B2  | TXp2        |
| A12             | GND         | B1  | GND         |



### Recommended PCB Layout Top View

## PACKAGING

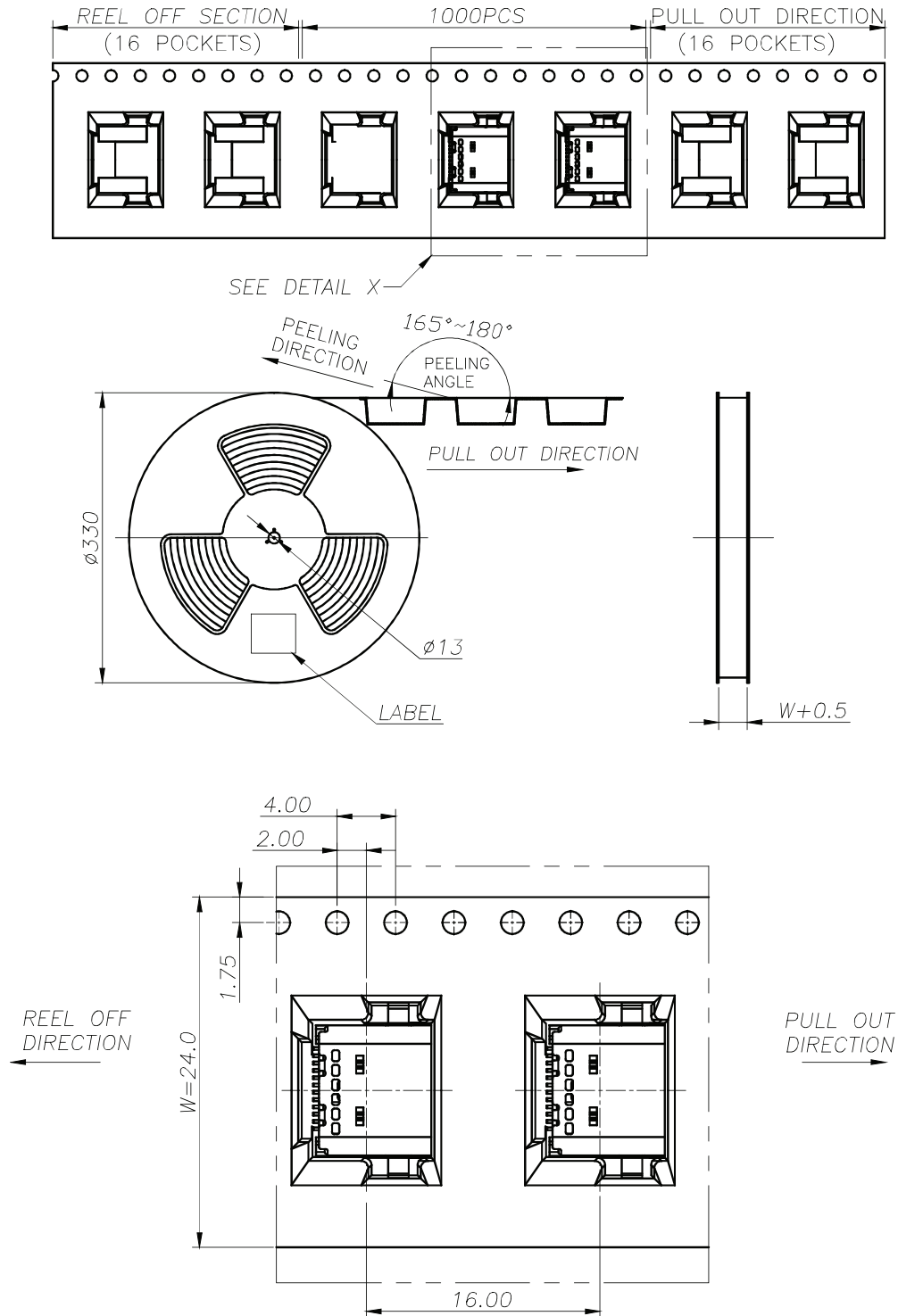
units: mm

Reel Size:  $\varnothing 330$  mm

Reel QTY: 1,000 pcs per reel

Carton Size: 340 x 340 x 320 mm

Carton QTY: 10,000 pcs



DETAIL X

REVISION HISTORY

| rev. | description     | date       |
|------|-----------------|------------|
| 1.0  | initial release | 07/24/2024 |

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



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