

**MODEL:** UP32-C-F-G-FL-2-P24-TR | **DESCRIPTION:** USB PLUG**FEATURES**

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

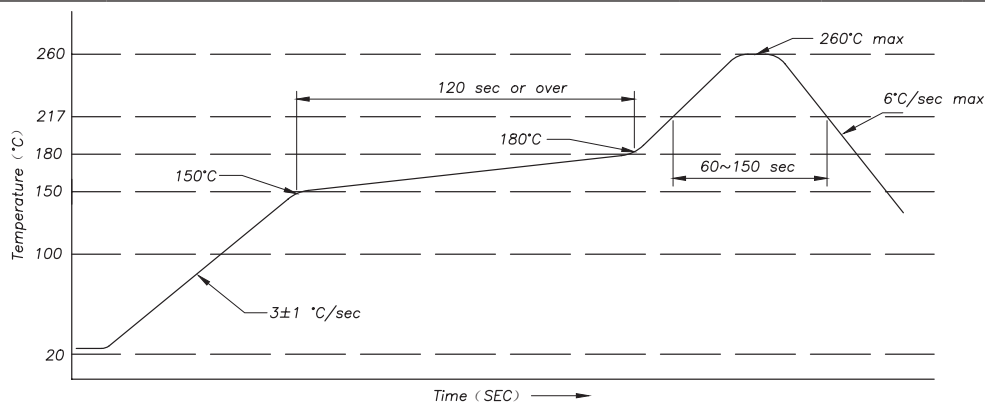
**SPECIFICATIONS**

| parameter                       | conditions/description  | min | typ    | max                 | units       |
|---------------------------------|---|-----|--------|---------------------|-------------|
| USB standard                    | USB 3.2 Gen 1   |     |        |                     |             |
| rated input voltage             |   |     |        | 30                  | 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           | 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.

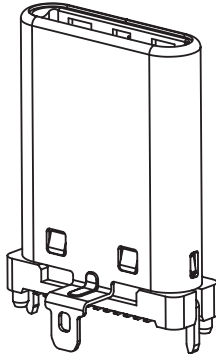
**SOLDERABILITY**

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

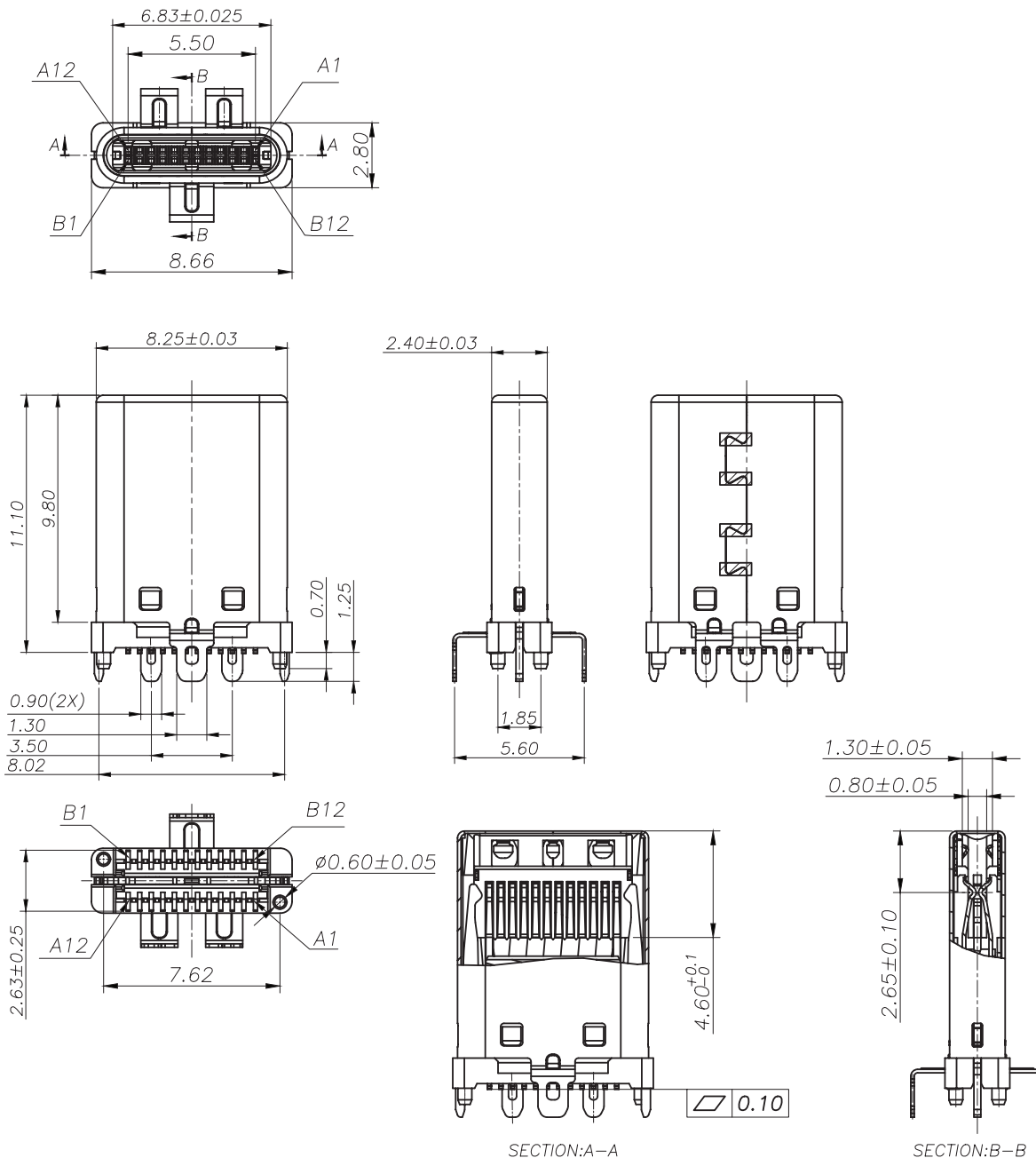


## MECHANICAL DRAWING

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



| DESCRIPTION | MATERIAL      | PLATING/COLOR  |
|-------------|---------------|--|
| housing     | LCP (UL94V-0) | black  |
| contact     | C7035         | contact area: 3 μ" gold<br>over 50 μ" nickel<br>solder area: 80 μ" tin |
| latch       | SUS301        | solder area: 80 μ" tin<br>over 50 μ" nickel                            |
| spring      | SUS304        | clear  |
| front shell | SUS304        | 30 μ" nickel   |



SECTION:A-A

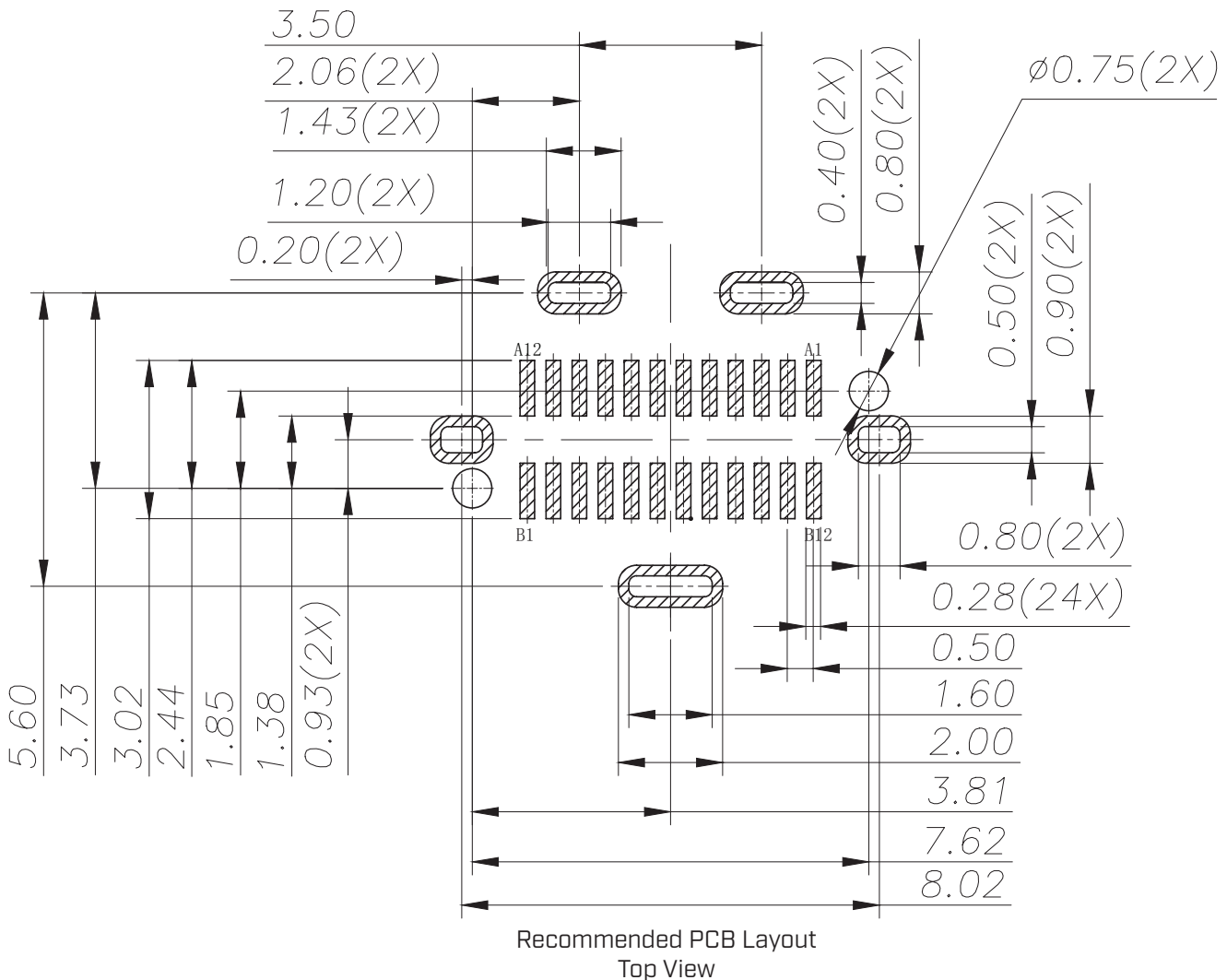
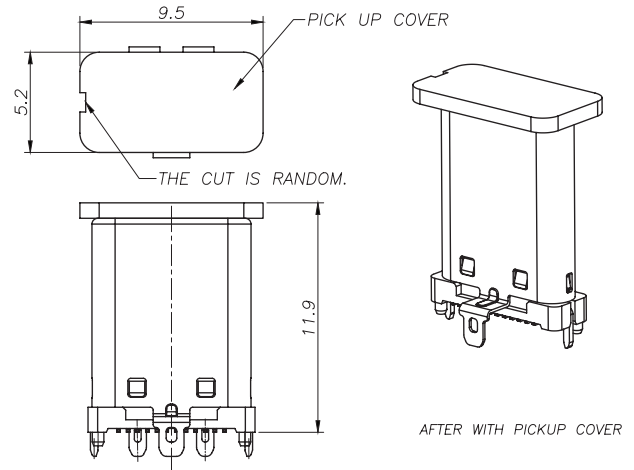
SECTION:B-B

## MECHANICAL DRAWING (CONTINUED)

units: mm  
 PCB tolerance:  $\pm 0.05$  mm  
 PCB thickness:  $0.8 \pm 0.10$  mm

| PIN CONNECTIONS |             |     |             |
|-----------------|-------------|-----|-------------|
| PIN             | SIGNAL NAME | PIN | SIGNAL NAME |
| A1              | GND         | B12 | GND         |
| A2              | SSTXp1      | B11 | SSRXp1      |
| A3              | SSTXn1      | B10 | SSRXn1      |
| 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             | SSRXn2      | B3  | SSTXn2      |
| A11             | SSRXp2      | B2  | SSTXp2      |
| A12             | GND         | B1  | GND         |

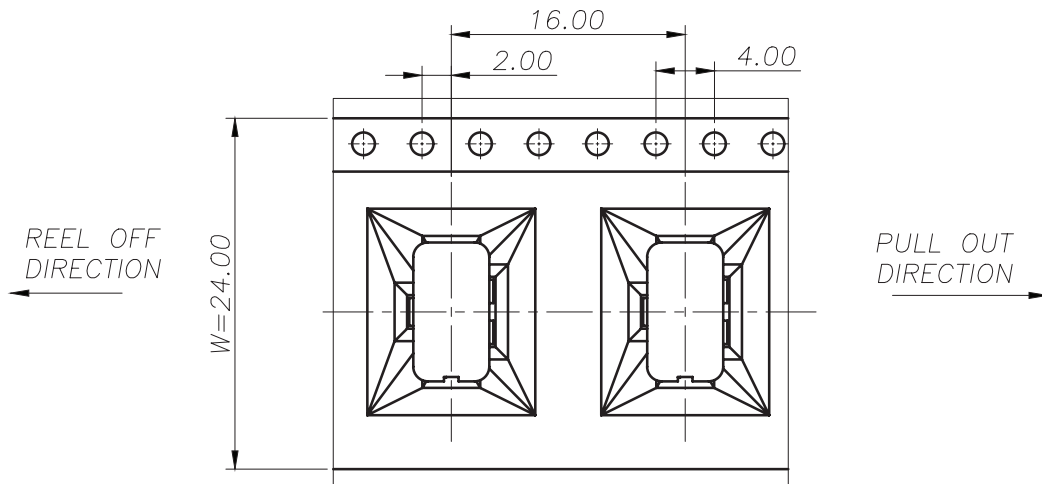
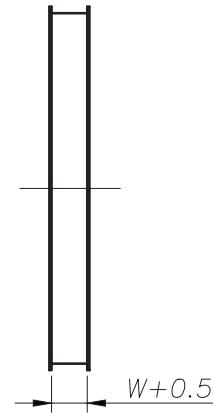
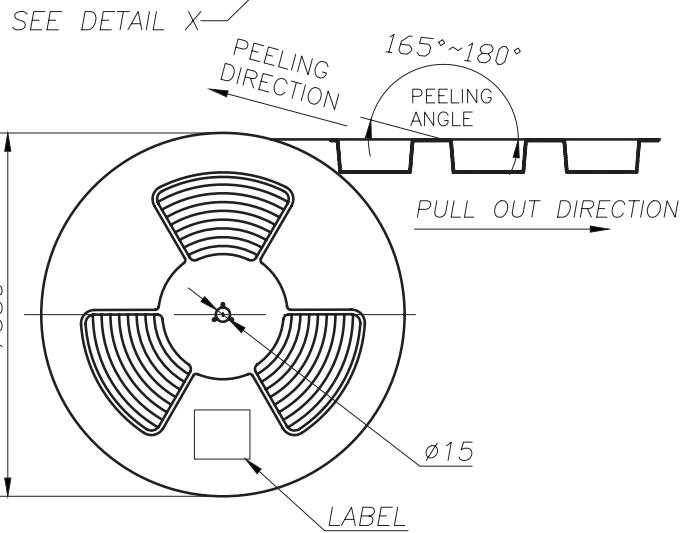
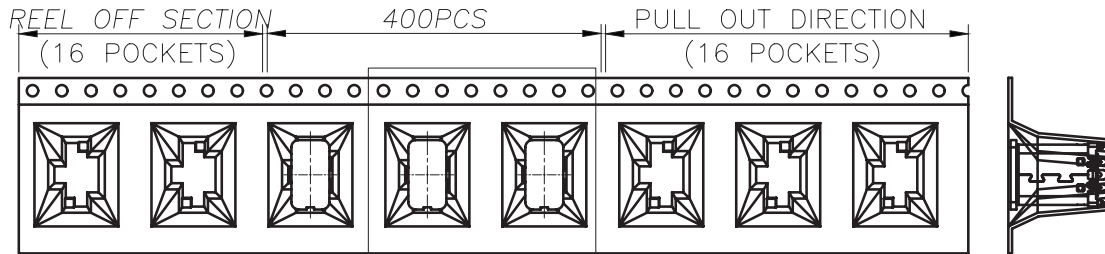
with cover:



## PACKAGING

units: mm

Reel Size:  $\varnothing 380$   
 Reel QTY: 400 pcs per reel  
 Carton Size: 330 x 330 x 320 mm  
 Carton QTY: 4,000 pcs



DETAIL X  
 SCALE 2:1

## REVISION HISTORY

| rev. | description     | date       |
|------|-----------------|------------|
| 1.0  | initial release | 07/31/2024 |

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



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