



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



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

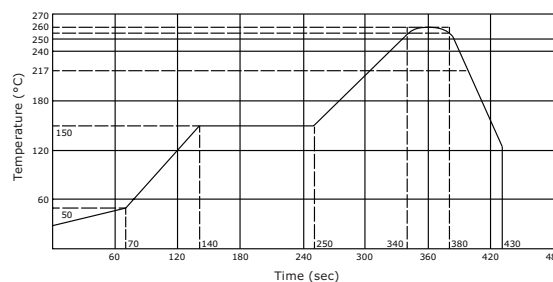
| parameter | conditions/description | min | typ | max | units |
|---------------------------------|--|-----|--------|------|--------|
| rated input voltage | | | | 20 | Vac |
| rated input current | as per EIA-364-70, Method B | | | | |
| | power pins collectively (A4, A9, B4, B9) | | | 5.0 | A |
| | 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 ¹ | 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

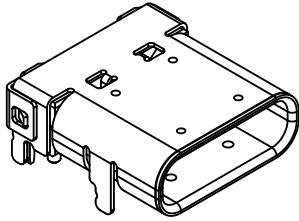
| parameter | conditions/description | min | typ | max | units |
|--------------------------------|---|-----|-----|-----|-------|
| reel storage | at relative humidity <80% | | | 40 | °C |
| reflow soldering ³ | see reflow profile | 255 | 260 | 265 | °C |
| drying conditions ⁴ | parts in reel: bake at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

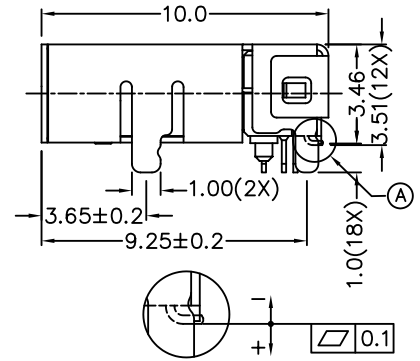
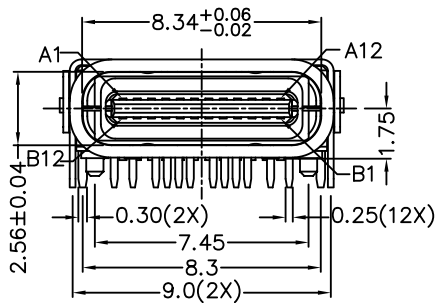
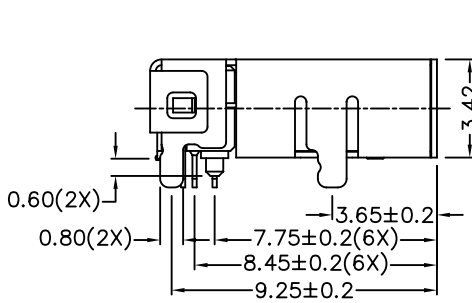


MECHANICAL DRAWING

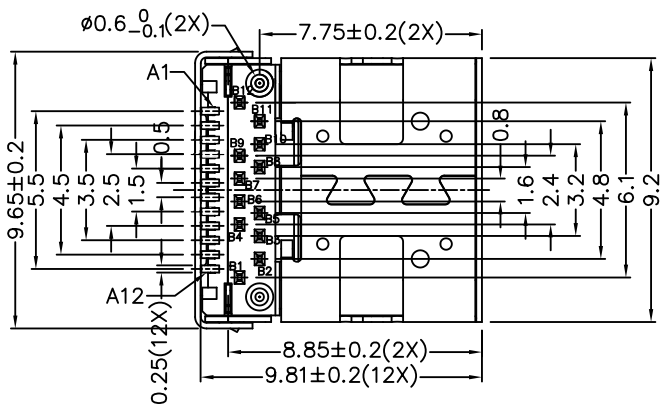
units: mm
 tolerance:
 X.X ± 0.2 mm
 X.XX ± 0.10 mm
 X.XXX ± 0.050 mm



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



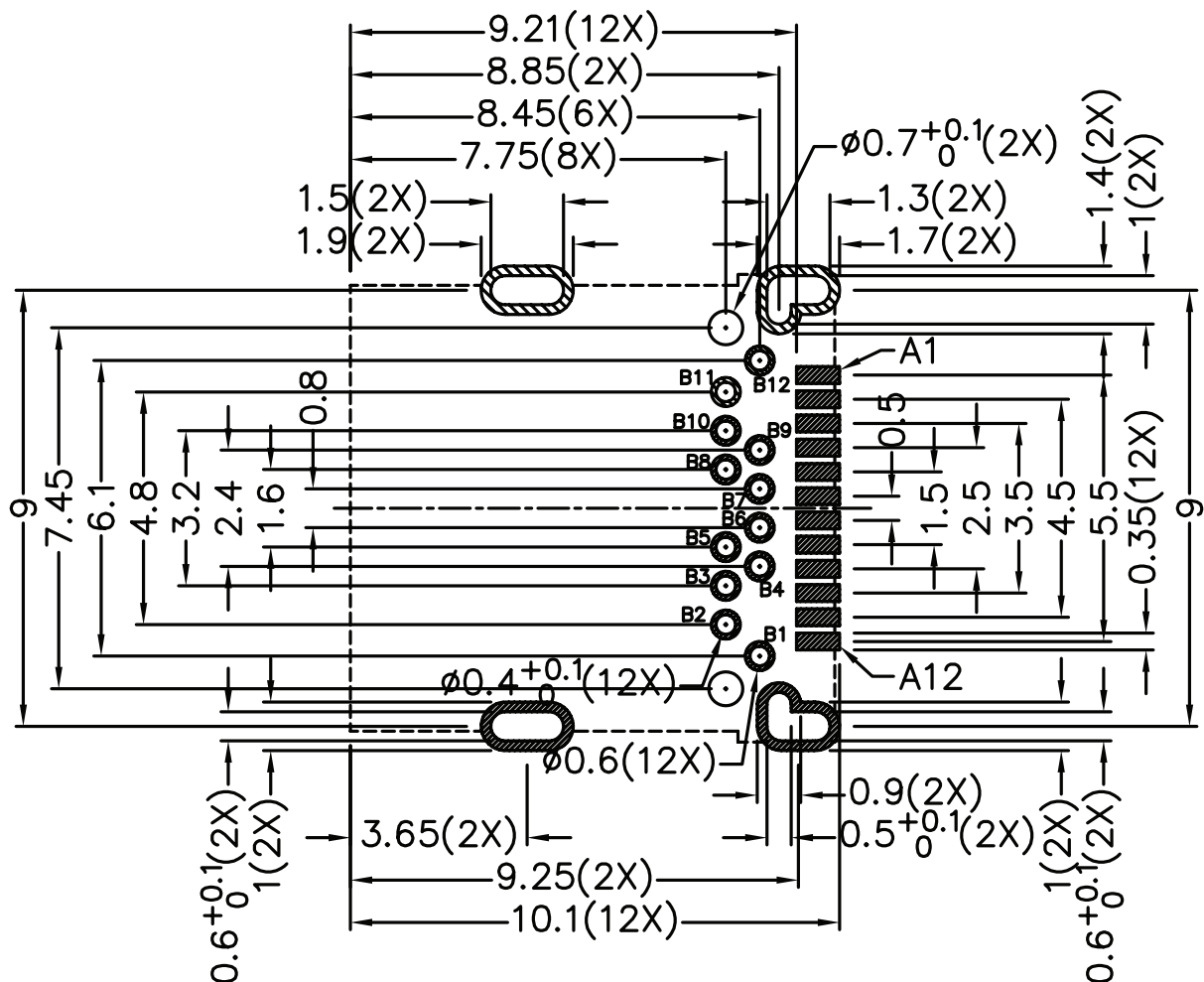
A DETAIL COPLANARITY



MECHANICAL DRAWING (CONTINUED)

units: mm
PCB tolerance: ± 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 _{BUS} | FIRST | B9 | V _{BUS} | 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 _{BUS} | FIRST | B4 | V _{BUS} | FIRST |
| A10 | SSRXn2 | SECOND | B3 | SSTXn2 | SECOND |
| A11 | SSRXp2 | SECOND | B2 | SSTXp2 | SECOND |
| A12 | GND | FIRST | B1 | GND | FIRST |
| SHELL | GND | | SHELL | GND | |

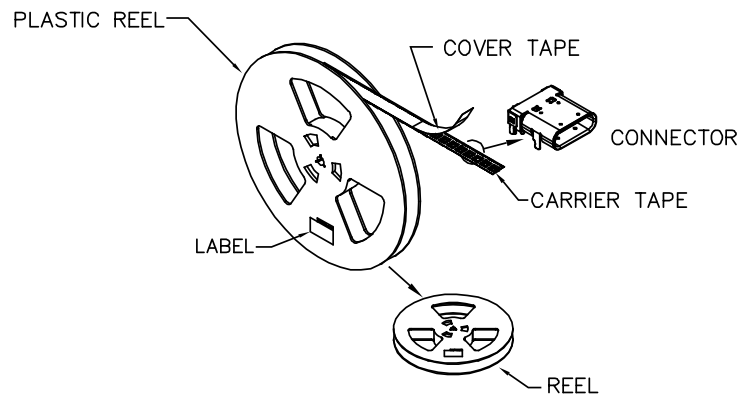
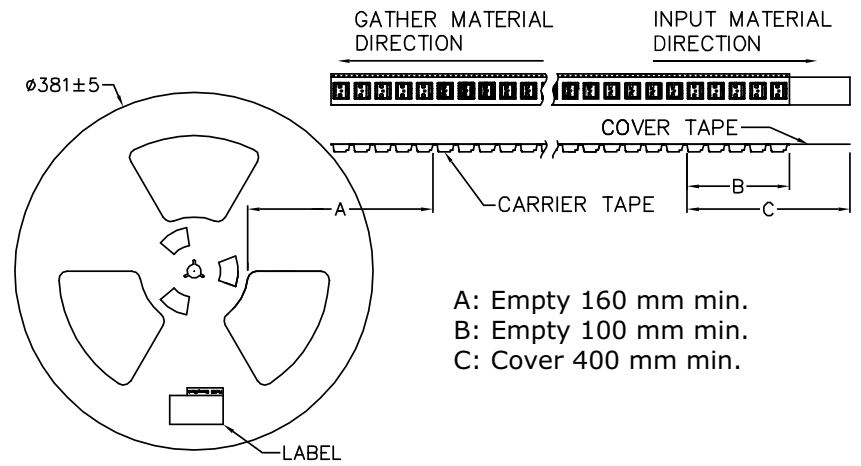
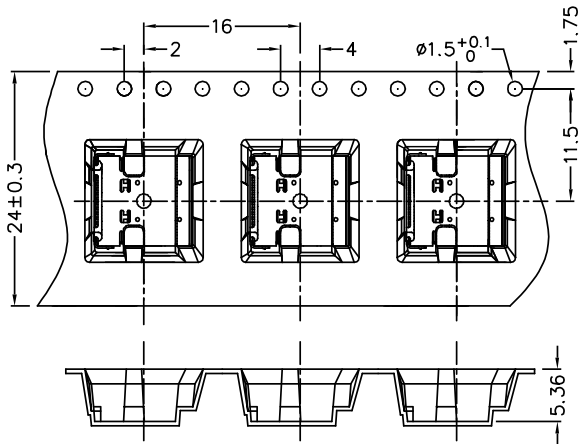


PACKAGING

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.



Headquarters
20050 SW 112th Ave.
Tualatin, OR 97062
800.275.4899

Fax 503.612.2383
cui.com
techsupport@cui.com

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