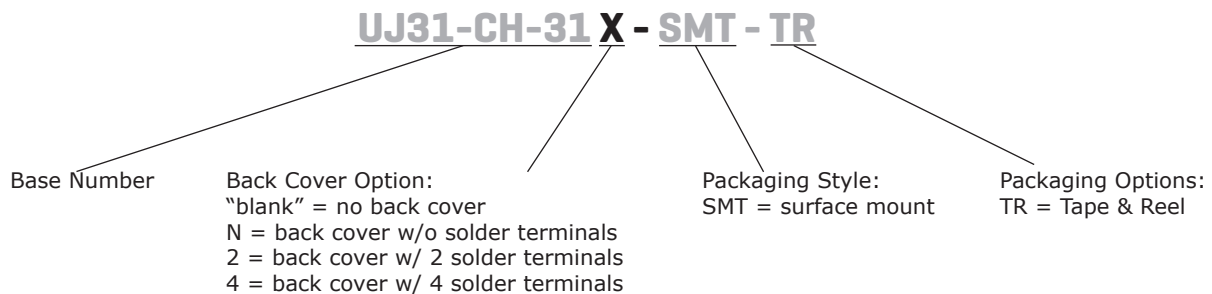


SERIES: UJ31-CH-SMT | **DESCRIPTION:** USB RECEPTACLE
FEATURES

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

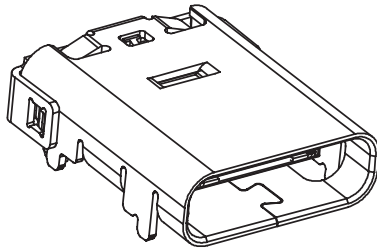
**PART NUMBER KEY****SPECIFICATIONS**

| parameter | conditions/description | min | typ | max | units |
|---------------------------------|---|-----|--------|------|--------|
| rated input voltage | | | | 20 | Vdc |
| 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 | at 100 Vdc for 1 minute between adjacent contacts | 100 | | | MΩ |
| voltage withstand | at 60 Hz for 1 minute 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 max cycles per hour | | 10,000 | | cycles |
| operating temperature | | -30 | | 85 | °C |
| storage temperature | | -40 | | 85 | °C |
| flammability rating | UL94V-0 | | | | |
| RoHS | 2011/65/EU | | | | |

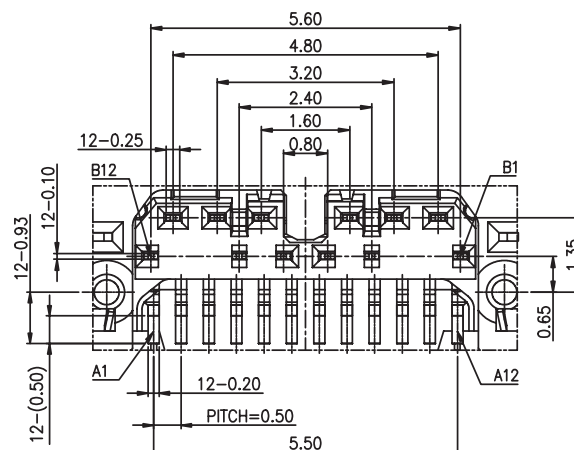
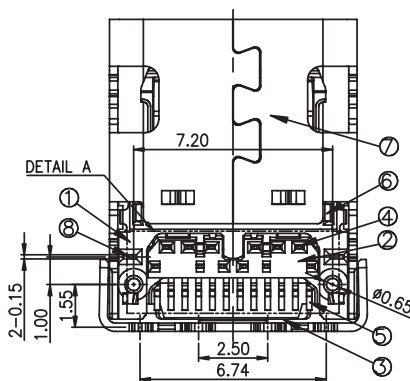
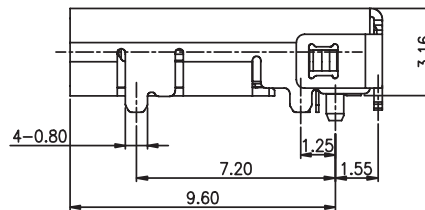
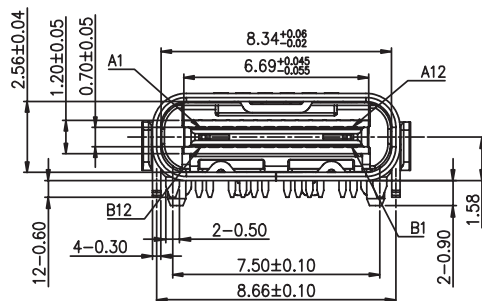
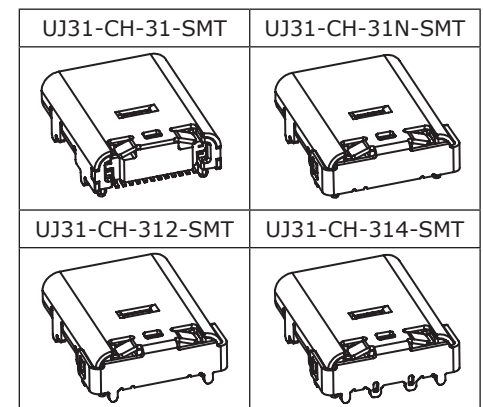
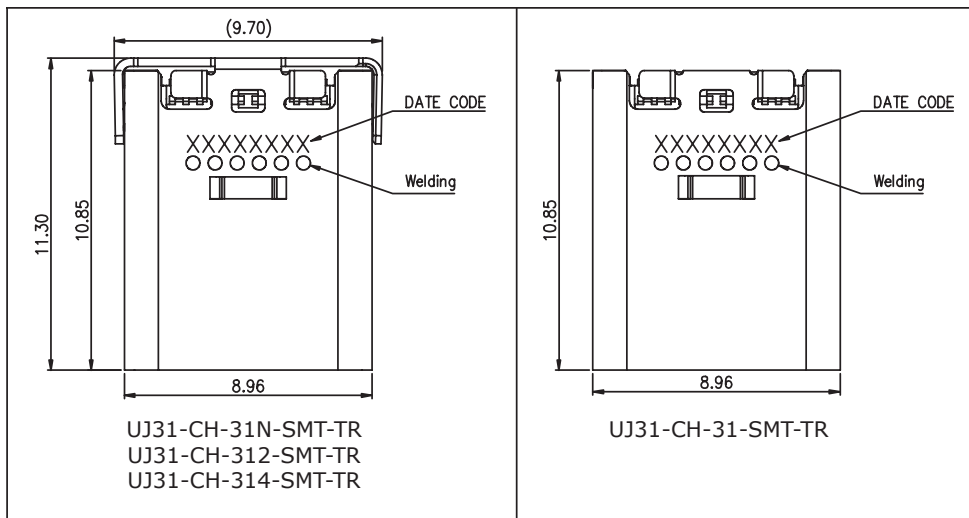
Note: 1. When measured at 20 mV max / 100 mA.

MECHANICAL DRAWING

units: mm
tolerance:
X.X ± 0.20 mm
X.XX ± 0.15 mm



| | MATERIAL | PLATING |
|-------------------|-----------------|--|
| contact terminals | copper alloy | contact: 2 μ " gold solder: tin |
| shell | stainless steel | nickel |
| EMI shell | stainless steel | |
| mid plate | stainless steel | tin |
| insulator | PA9T | |

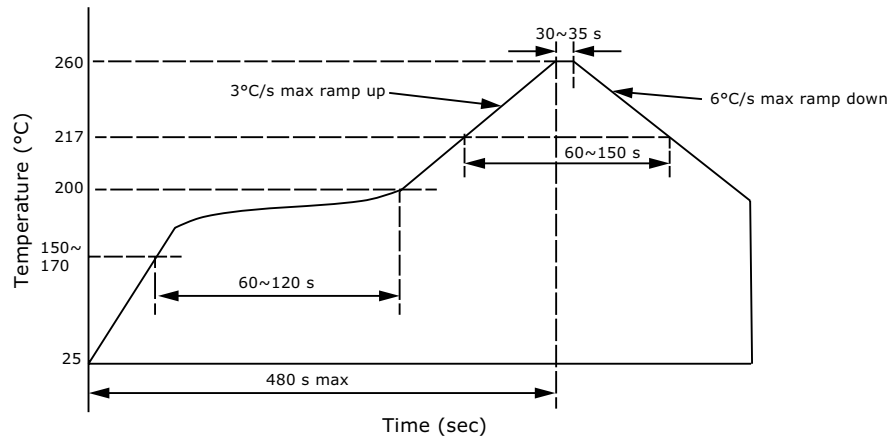


DETAIL A
SCALE: 8/1

SOLDERABILITY

| parameter | conditions/description | min | typ | max | units |
|-------------------------------|---------------------------|-----|-----|-----|-------|
| reel storage | at relative humidity <60% | | | 30 | °C |
| reflow soldering ¹ | see reflow profile | 255 | 260 | 265 | °C |

Note: 1. It is recommended to reflow solder within 168 hours from opening vacuum packaging at a temperature <30°C & relative humidity <60%.

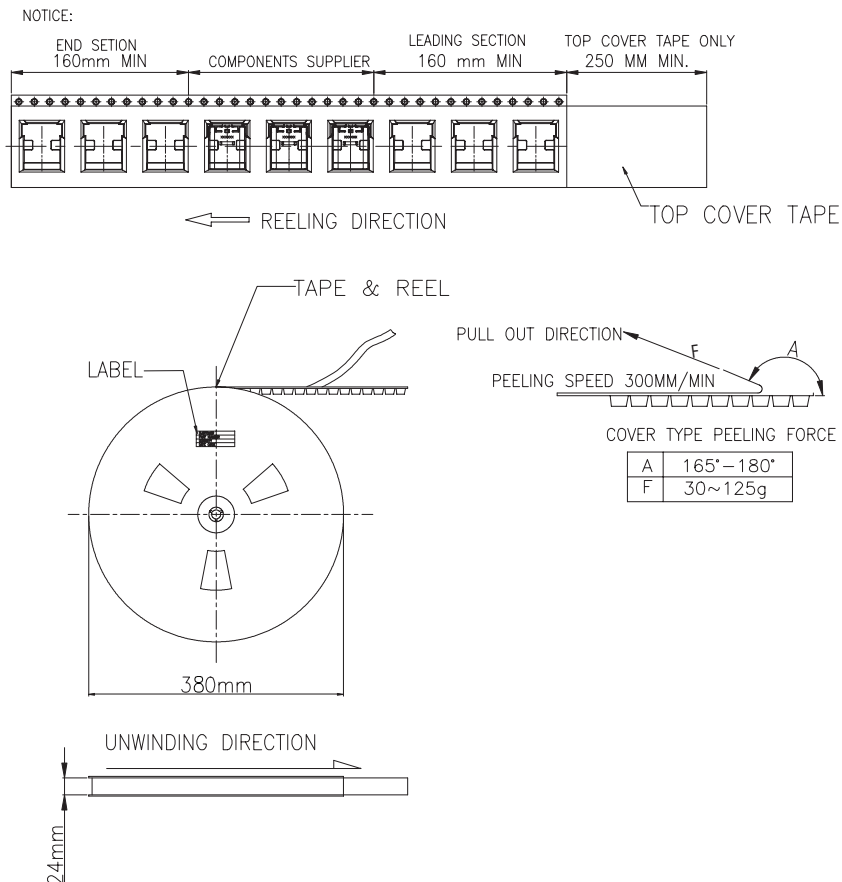
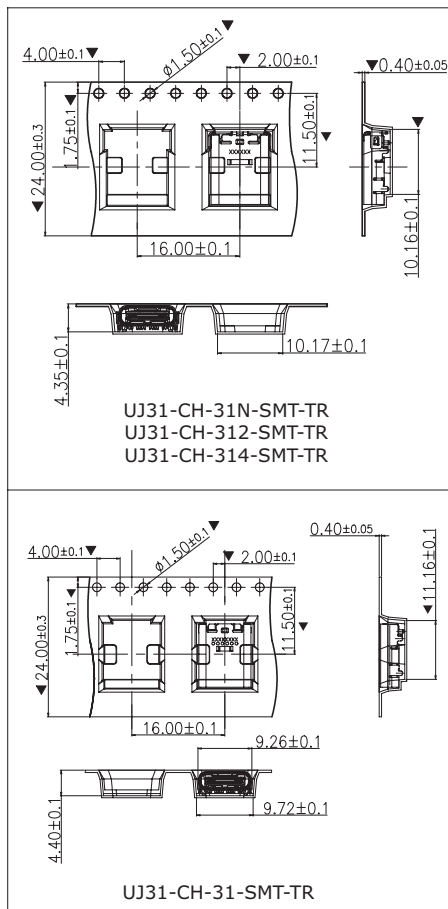


PACKAGING

units: mm

Reel Size: Ø380 mm

Reel QTY: 1,200 pcs per reel



REVISION HISTORY

| rev. | description | date |
|------|----------------------|------------|
| 1.0 | initial release | 12/19/2017 |
| 1.01 | updated reel details | 01/19/2018 |
| 1.02 | updated datasheet | 01/30/2018 |

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



CUI INC[®]

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

Fax 503.612.2383
cui.com
techsupport@cui.com

CUI offers a one (1) year limited warranty. Complete warranty information is listed on our website.

CUI reserves the right to make changes to the product at any time without notice. Information provided by CUI is believed to be accurate and reliable. However, no responsibility is assumed by CUI for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

CUI products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

CUI Inc.:

[UJ31-CH-312-SMT-TR](#) [UJ31-CH-314-SMT-TR](#) [UJ31-CH-31N-SMT-TR](#) [UJ31-CH-31-SMT-TR](#)