

**MODEL:** PJ-002BH-SMT-TR | **DESCRIPTION:** DC POWER JACK**FEATURES**

- designed for pick and place
- 5 A current rating
- narrow footprint

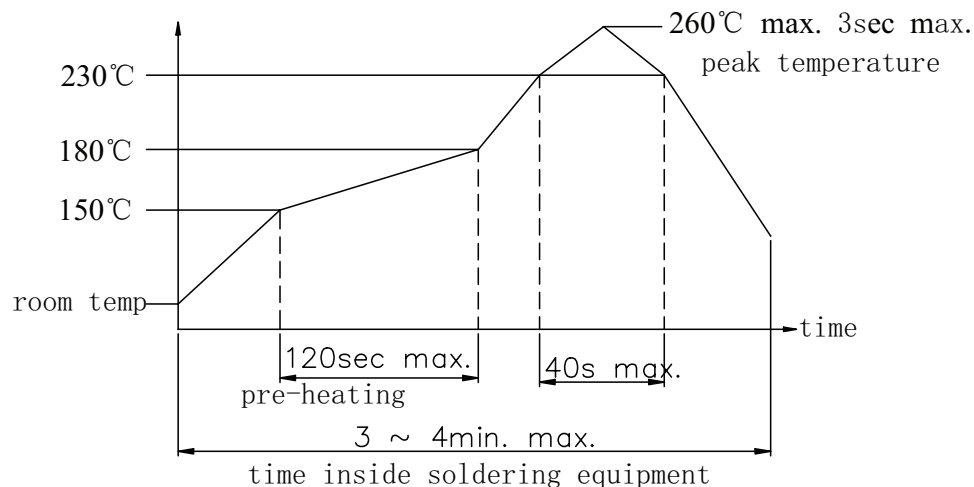
**SPECIFICATIONS**

| parameter                  | conditions/description | min | typ   | max | units  |
|----------------------------|------------------------|-----|-------|-----|--------|
| rated input voltage        |                        |     | 24    |     | Vdc    |
| rated input current        |                        |     |       | 5.0 | A      |
| contact resistance         |                        |     |       | 30  | mΩ     |
| insulation resistance      | at 500 Vdc             | 100 |       |     | MΩ     |
| voltage withstand          | for 1 minute           |     |       | 500 | Vac    |
| insertion/withdrawal force |                        | 0.3 |       | 3   | kg     |
| operating temperature      |                        | -25 |       | 85  | °C     |
| life                       |                        |     | 5,000 |     | cycles |
| flammability rating        | UL94V-0                |     |       |     |        |
| RoHS                       | yes                    |     |       |     |        |

**SOLDERABILITY**

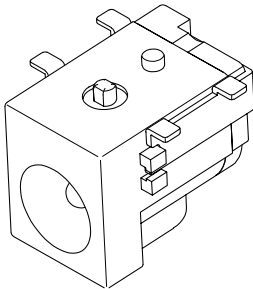
| parameter        | conditions/description                                                                            | min | typ | max | units |
|------------------|---------------------------------------------------------------------------------------------------|-----|-----|-----|-------|
| reel storage     | -5~35°C, 25~80% humidity<br>reel opened: use within 1 month<br>reel unopened: use within 6 months |     |     |     |       |
| reflow soldering | see reflow profile                                                                                |     |     | 260 | °C    |

Note: 1. CUI Devices recommends usage of the product within 2 hours after T&R is opened. After 6 hours, CUI Devices recommends drying the parts prior to use.

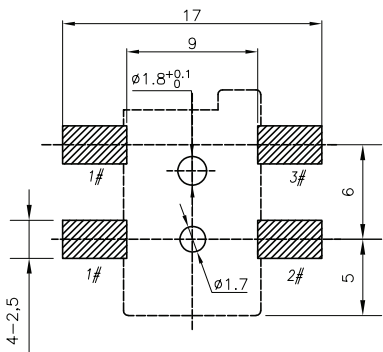
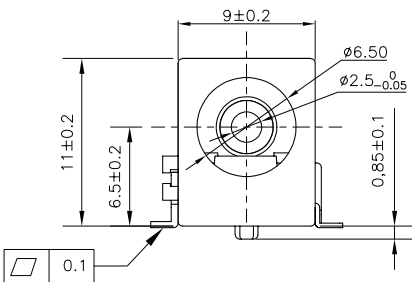
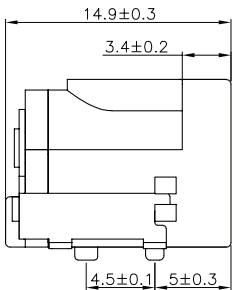
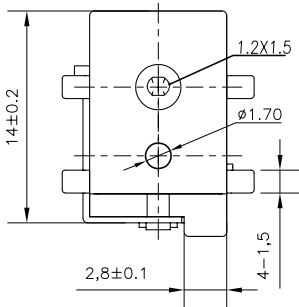


MECHANICAL DRAWING

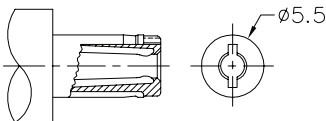
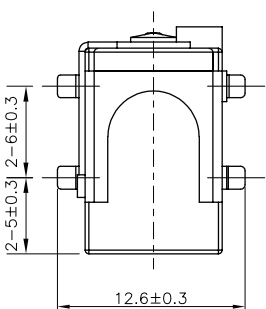
units: mm  
tolerance:  
X, ±0.50 mm  
X.X ±0.30 mm  
X.XX ±0.20 mm  
PCB: ±0.05 mm  
unless otherwise specified  
PCB thickness: 1.6 mm



| DESCRIPTION | MATERIAL        | PLATING/COLOR |
|-------------|-----------------|---------------|
| center pin  | copper          | nickel        |
| terminal 1  | brass           | silver        |
| terminal 2  | copper alloy    | silver        |
| terminal 3  | brass           | silver        |
| housing     | PA10T (UL94V-0) | black         |
| cover       | PA10T (UL94V-0) | black         |



Recommended PCB Layout  
Top View



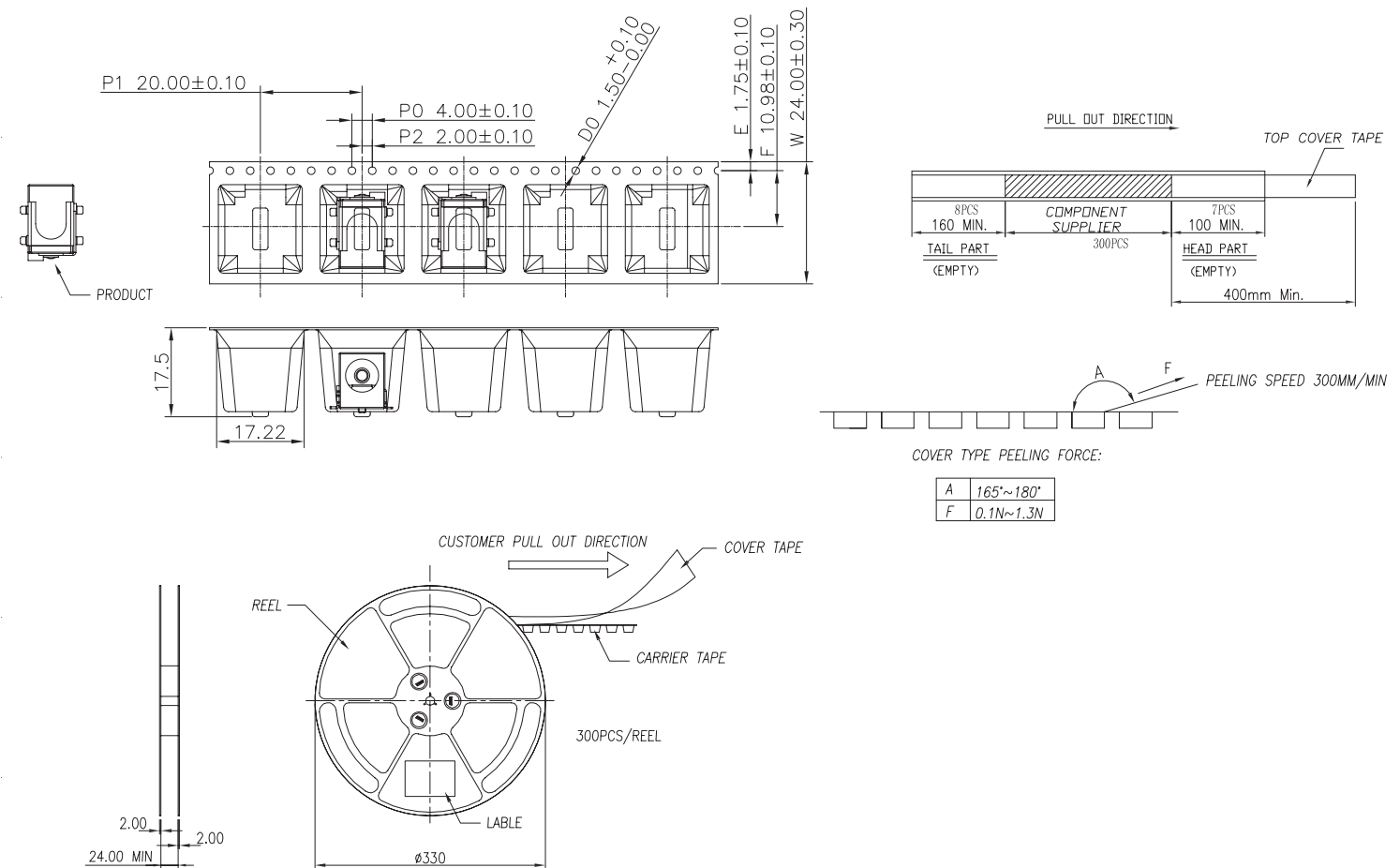
MATING PLUG  
Jack Insertion Depth: 9.5 mm

|            |                 |
|------------|-----------------|
| SCHEMATIC  |                 |
| Model      | PJ-002BH-SMT-TR |
| Center Pin | Ø2.5 mm         |

PACKAGING

units: mm

Reel Size: Ø330 mm  
Reel QTY: 300 pcs per reel



REVISION HISTORY

| rev. | description                                                              | date       |
|------|--------------------------------------------------------------------------|------------|
| 1.0  | initial release                                                          | 10/19/2005 |
| 1.01 | updated operating temperature                                            | 06/20/2011 |
| 1.02 | updated spec, added jack insertion depth                                 | 10/12/2012 |
| 1.03 | added TR package option                                                  | 11/28/2012 |
| 1.04 | updated spec                                                             | 07/03/2013 |
| 1.05 | increased voltage rating                                                 | 05/17/2016 |
| 1.06 | added storage and drying conditions, and tape and reel packaging details | 07/26/2017 |
| 1.07 | brand update                                                             | 10/31/2019 |
| 1.08 | logo, datasheet style update                                             | 08/05/2022 |
| 1.09 | updated tape and reel packaging                                          | 06/19/2023 |
| 1.10 | manufacturing improvement changes                                        | 08/29/2024 |
| 1.11 | CUI Devices rebranded to Same Sky                                        | 09/12/2024 |

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



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

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