CUI Devices is now Same Sky! Learn More



# MODEL: PJ-068B-SMT-TR | DESCRIPTION: DC POWER JACK

## FEATURES

- mid mount for low profile applications
- fully shielded
- high current rating

RoHS

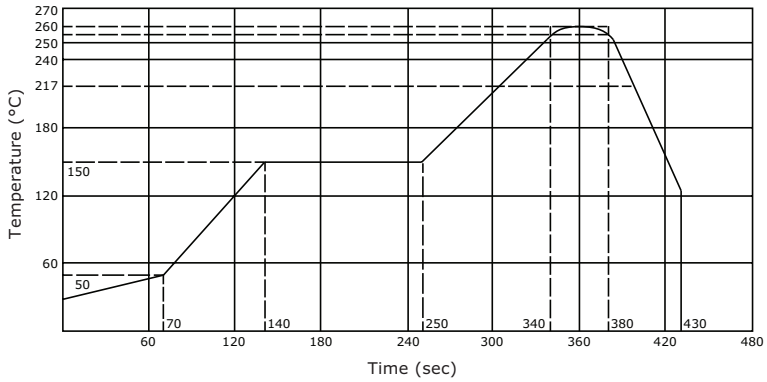
## SPECIFICATIONS

| parameter | conditions/description | min | typ | max | units |
|---|---|---|---|---|---|
| rated input voltage | | | 24 | | Vdc |
| rated input current | | | | 5 | 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

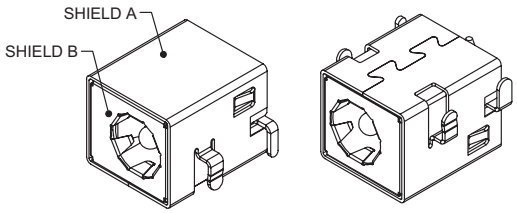
| parameter | conditions/description | min | typ | max | units |
|---|---|---|---|---|---|
| reel storage | at relative humidity <80% | | | 40 | °C |
| reflow soldering[1] | see reflow profile | 255 | 260 | 265 | °C |
| drying conditions[2] | parts in reel: bake at 40°C ±5°C for 72 hours<br>parts removed from reel: bake at 40°C ±5°C for 10 hours | | | | |

Note:
1. Same Sky recommends to solder within 72 hours from opening vacuum packaging at a temperature <30°C & relative humidity <80%.
2. When exceeding floor life by >72 hours.

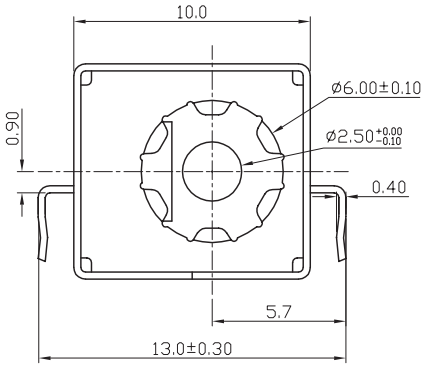


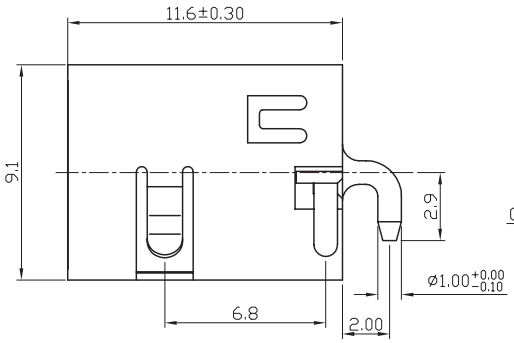
## MECHANICAL DRAWING

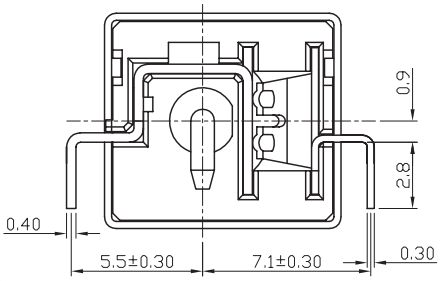
units: mm
tolerance:
X. ±0.50 mm
X.X ±0.30 mm
X.XX ±0.20 mm
X.XXX ±0.10 mm
PCB: ±0.05 mm
unless otherwise specified

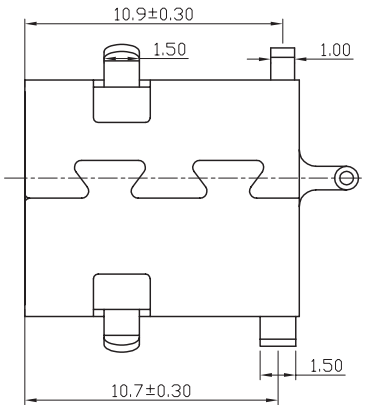


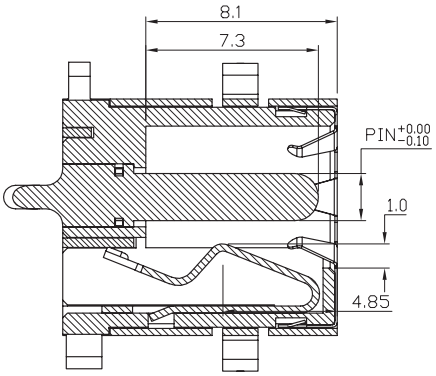

| DESCRIPTION | MATERIAL | PLATING/COLOR |
|---|---|---|
| center pin | brass | silver |
| terminal 1 | brass | silver |
| terminal 2 | bronze t=0.30 | silver |
| terminal 3 | brass t=0.40 | silver |
| shield-A | brass t=0.30 | nickel |
| shield-B | SUS301 t=0.10 | --- |
| stopper | SUS301 t=0.30 | nickel |
| housing | PA6T (UL94V-0) | black |

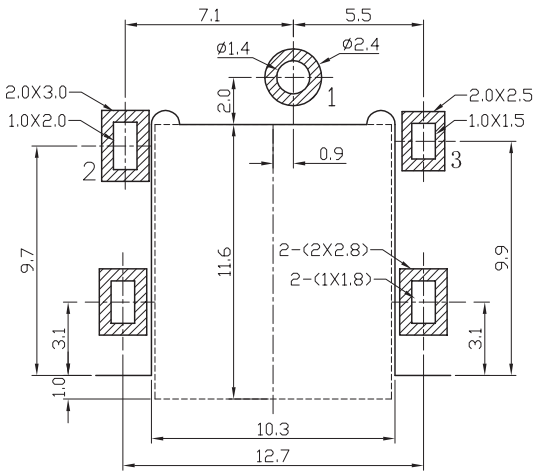


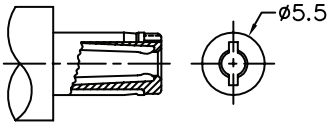



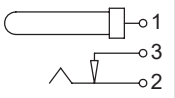




Recommended PCB Layout
Top View



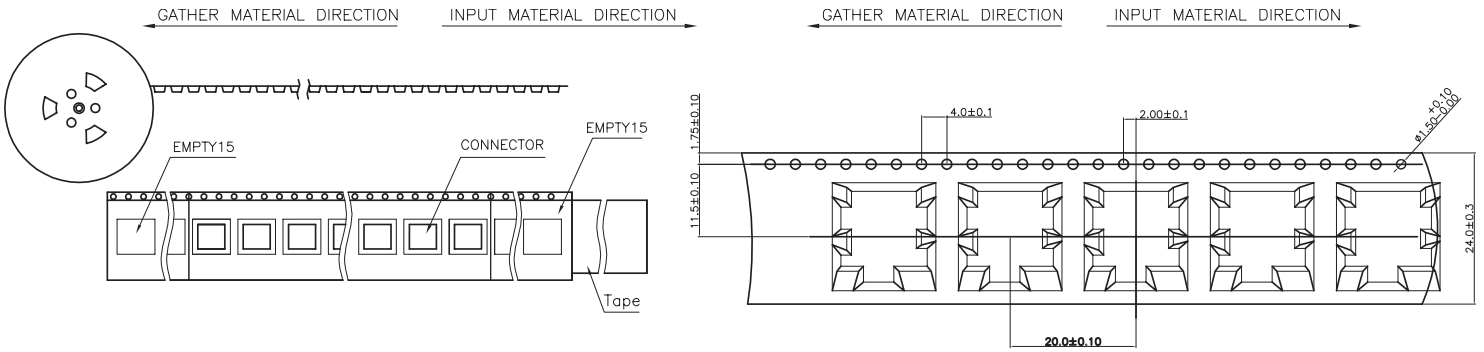

MATING PLUG
Jack Insertion Depth: 8.1 mm

| SCHEMATIC |  |
|---|---|
| Model | PJ-068B-SMT |
| Center Pin | Ø2.5 mm |

## PACKAGING

units: mm

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



300pcs/reel

## REVISION HISTORY

| rev. | description | date |
|---|---|---|
| 1.0 | initial release | 05/04/2011 |
| 1.01 | updated spec, added jack insertion depth | 10/23/2012 |
| 1.02 | added TR package option | 11/29/2012 |
| 1.03 | increased voltage rating | 05/09/2016 |
| 1.04 | added storage and drying conditions, and tape and reel packaging details | 10/17/2017 |
| 1.05 | brand update | 10/30/2019 |
| 1.06 | product reengineered for improved manufacturability and production yield, see PCN for details | 01/17/2023 |
| 1.07 | changed materials | 08/03/2024 |
| 1.08 | 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

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

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