CUI Devices is now Same Sky! Learn More



# MODEL: PJ-102BH | DESCRIPTION: DC POWER JACK

## FEATURES

- 2.5 mm center pin
- 5.0 A rating
- right-angle orientation
- through hole

RoHS

## SPECIFICATIONS

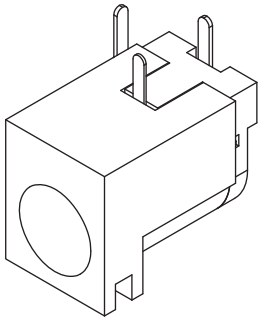
| parameter | conditions/description | min | typ | max | units |
|---|---|---|---|---|---|
| rated input voltage | | | 24 | | Vdc |
| rated input current | | | | 5.0 | A |
| contact resistance | | | | 30 | mΩ |
| insulation resistance | at 500 Vdc | 100 | | | MΩ |
| voltage withstand | for 1 minute | | | 500 | Vac |
| insertion/withdrawal force | | 0.3 | | 3 | kg |
| terminal strength | any direction for 10 seconds | | | 500 | g |
| operating temperature | | -25 | | 85 | °C |
| life | | | 5,000 | | cycles |
| flammability rating | UL94V-0 | | | | |
| RoHS | yes | | | | |

## SOLDERABILITY

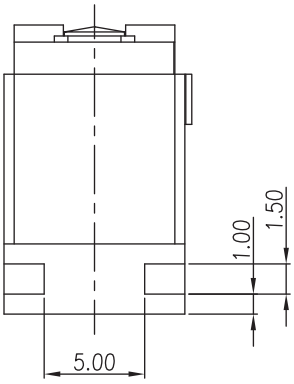
| parameter | conditions/description | min | typ | max | units |
|---|---|---|---|---|---|
| wave soldering | dipped in solder pot for 5 ±0.5 seconds | 255 | 260 | 265 | °C |

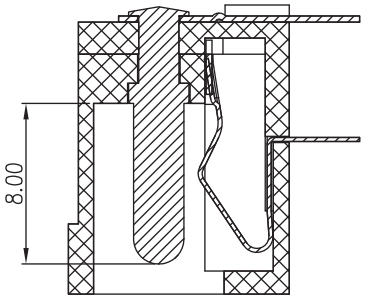
## MECHANICAL DRAWING

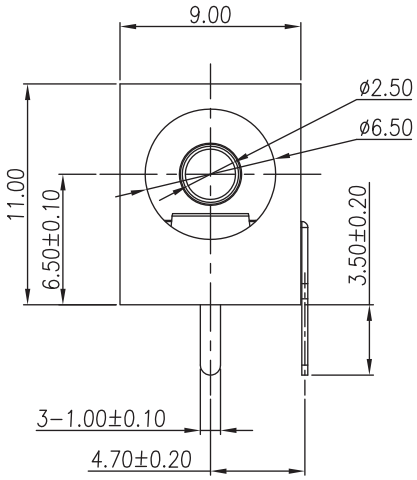
units: mm
tolerance:
X ±0.50 mm
X.X ±0.30 mm
X.XX ±0.20 mm
PCB: ±0.05 mm
unless otherwise specified

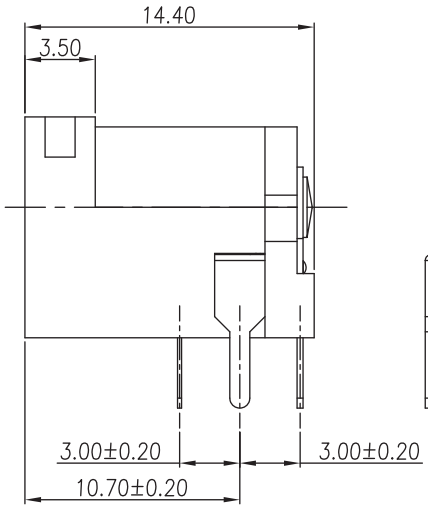


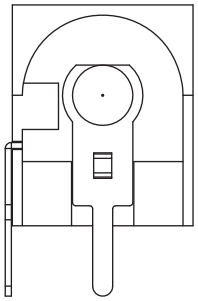
| DESCRIPTION | MATERIAL | PLATING/COLOR |
|---|---|---|
| center pin | copper | nickel |
| terminal 1 | brass | silver |
| terminal 2 | copper alloy | silver |
| terminal 3 | brass | silver |
| housing | PBT (UL94V-0) | black |
| cover | PBT (UL94V-0) | black |

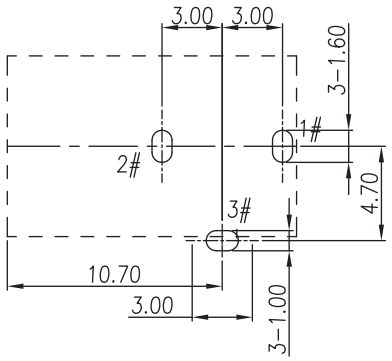


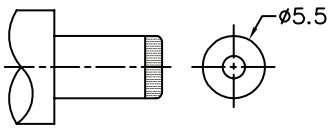



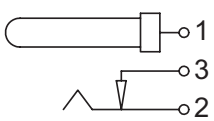






Recommended PCB Layout
Top View




MATING PLUG
Jack Insertion Depth: 9.5 mm

| | |
|---|---|
| SCHEMATIC |   |
| Model | PJ-102BH |
| Center Pin | Ø2.5 mm |

## REVISION HISTORY

| rev. | description | date |
|---|---|---|
| 1.0 | initial release | 11/17/2005 |
| 1.01 | applied new spec template | 10/08/2013 |
| 1.02 | updated datasheet | 05/12/2016 |
| 1.03 | brand update | 10/30/2019 |
| 1.04 | product reengineered for improved manufacturability and production yield, see PCN for details | 09/02/2022 |
| 1.05 | 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

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