

**MODEL:** PJ-009B | **DESCRIPTION:** DC POWER JACK**FEATURES**

- 2.5 mm center pin
- 2.5 A rating
- vertical orientation
- through hole

**SPECIFICATIONS**

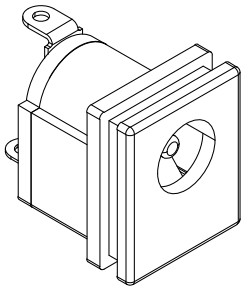
| parameter | conditions/description | min | typ | max | units |
|----------------------------|--------------------------------------|-----|-------|-----|--------|
| rated input voltage | | | 24 | | Vdc |
| rated input current | | | | 2.5 | A |
| contact resistance | between terminal and mating plug | | | 50 | mΩ |
| | between terminal in a closed circuit | | | 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

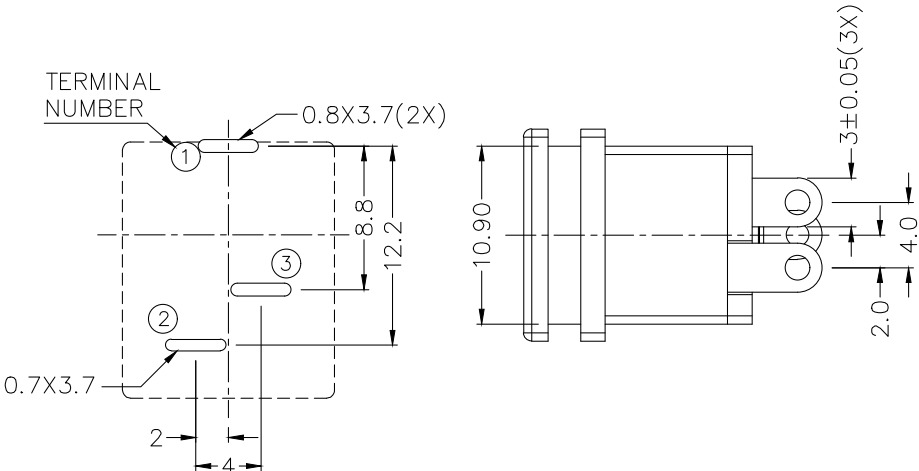
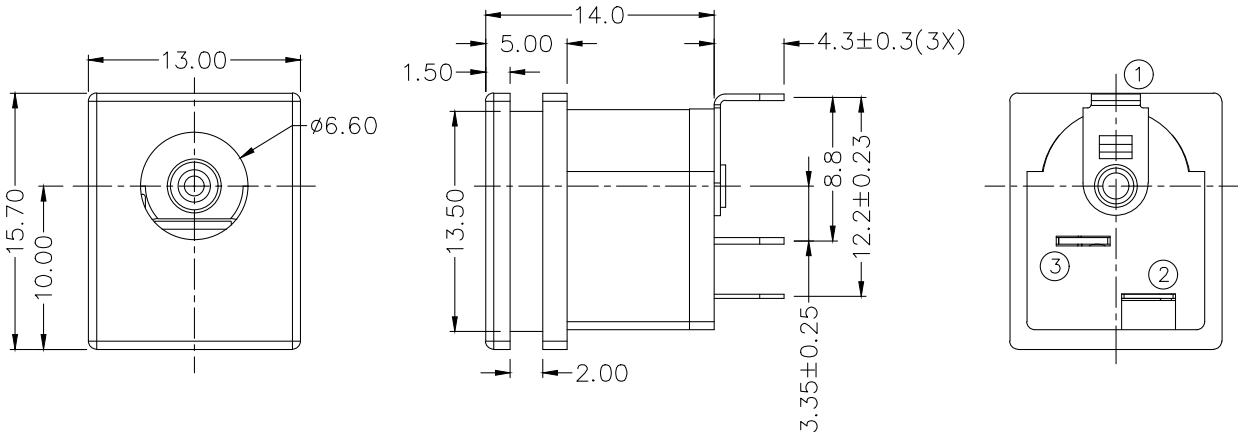
| parameter | conditions/description | min | typ | max | units |
|----------------|---|-----|-----|-----|-------|
| wave soldering | dipped in solder pot for 5 ±0.5 seconds | 255 | 260 | 265 | °C |

MECHANICAL DRAWING

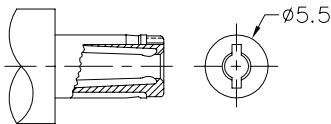
units: mm
tolerance:
X. ± 0.30 mm
X.X ± 0.25 mm
X.XX ± 0.20 mm
PCB: ± 0.05 mm
unless otherwise specified



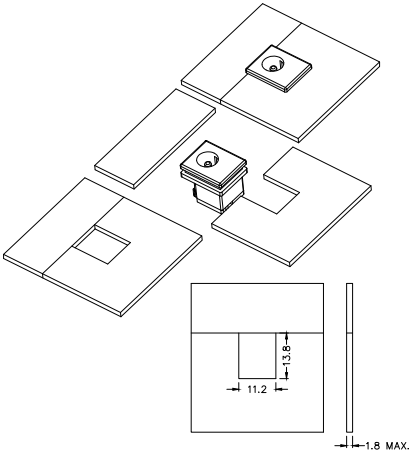
| DESCRIPTION | MATERIAL | PLATING/COLOR |
|-------------|---------------|-----------------|
| center pin | brass | nickel |
| terminal 1 | brass | tin over nickel |
| terminal 2 | copper alloy | tin over nickel |
| terminal 3 | brass | tin over nickel |
| housing | PBT [UL94V-0] | black |



Recommended PCB Layout
Top View



| | |
|------------|-----------------------|
| SCHEMATIC | 1 3 2 |
| Model | PJ-009B |
| Center Pin | $\phi 2.5 +0/-0.1$ mm |



Recommended Panel Cutout

REVISION HISTORY

| rev. | description | date |
|------|---|------------|
| 1.0 | initial release | 11/08/2005 |
| 1.01 | updated center pin and terminal locations | 08/11/2011 |
| 1.02 | applied new spec template | 11/04/2013 |
| 1.03 | increased voltage rating | 04/08/2016 |
| 1.04 | brand update | 11/05/2019 |
| 1.05 | logo, datasheet style update | 08/05/2022 |
| 1.06 | product reengineered for improved manufacturability and production yield, see PCN for details | 06/29/2023 |
| 1.07 | added recommended panel cutout details | 02/06/2024 |
| 1.08 | product reengineered for improved manufacturability and production yield, see PCN for details | 04/08/2024 |
| 1.09 | 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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