

**MODEL:** PJ-002B | **DESCRIPTION:** DC POWER JACK**FEATURES**

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

**SPECIFICATIONS**

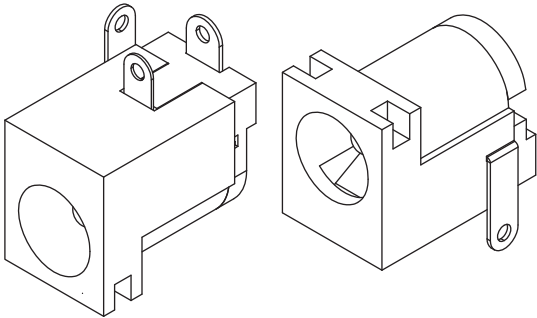
| parameter                  | conditions/description       | min | typ   | max | units  |
|----------------------------|------------------------------|-----|-------|-----|--------|
| rated input voltage        |                              |     | 24    |     | Vdc    |
| rated input current        |                              |     |       | 2.5 | 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     |
| terminal strength          | any direction for 10 seconds |     |       | 500 | g      |
| operating temperature      |                              | -40 |       | 85  | °C     |
| life                       |                              |     | 5,000 |     | cycles |
| flammability rating        | UL94V-0                      |     |       |     |        |
| RoHS                       | yes                          |     |       |     |        |

**SOLDERABILITY**

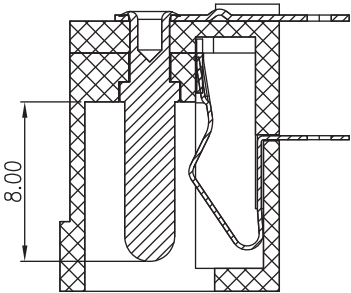
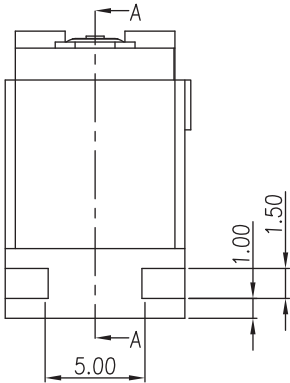
| parameter      | conditions/description                  | min | typ | max | units |
|----------------|-----------------------------------------|-----|-----|-----|-------|
| wave soldering | dipped in solder pot for 5 ±0.5 seconds | 255 | 260 | 265 | °C    |

MECHANICAL DRAWING

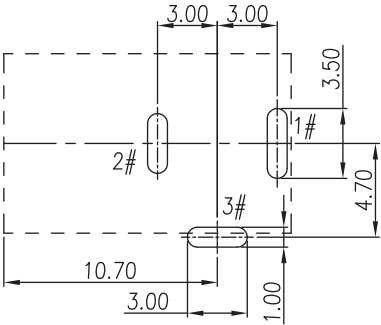
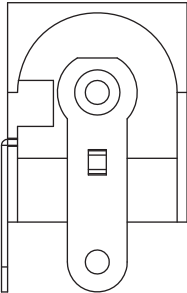
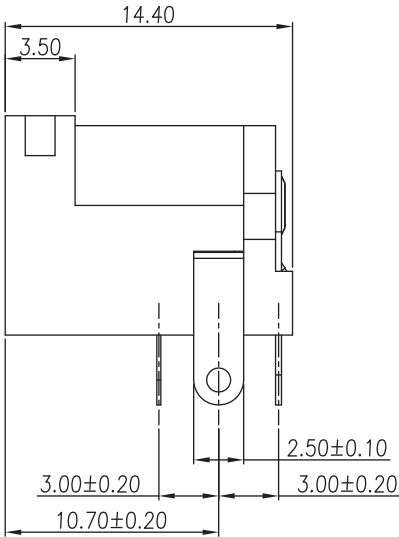
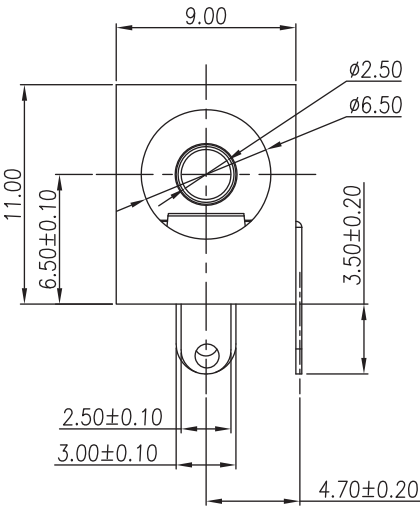
units: mm  
tolerance:  
X, ±0.50 mm  
X.X ±0.30 mm  
X.XX ±0.20 mm  
PCB: ±0.05 mm  
unless otherwise specified



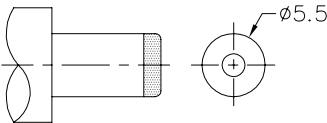
| DESCRIPTION | MATERIAL      | PLATING/COLOR |
|-------------|---------------|---------------|
| center pin  | copper        | nickel        |
| terminal 1  | brass         | silver        |
| terminal 2  | copper alloy  | silver        |
| terminal 3  | brass         | silver        |
| housing   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



SEC: A-A



Recommended PCB Layout  
Top View



MATING PLUG  
Jack Insertion Depth: 9.5 mm

|            |         |
|------------|---------|
| SCHEMATIC  |         |
| Model      | PJ-002B |
| Center Pin | Ø2.5 mm |

REVISION HISTORY

| rev. | description                                                                                   | date       |
|------|-----------------------------------------------------------------------------------------------|------------|
| 1.0  | initial release                                                                               | 04/17/2006 |
| 1.01 | changed pin thickness layout                                                                  | 08/31/2006 |
| 1.02 | applied new spec template                                                                     | 10/07/2013 |
| 1.03 | increased voltage rating                                                                      | 04/08/2016 |
| 1.04 | brand update                                                                                  | 10/31/2019 |
| 1.05 | logo, datasheet style update                                                                  | 08/05/2022 |
| 1.06 | product reengineered for improved manufacturability and production yield, see PCN for details | 01/20/2023 |
| 1.07 | changed minimum operating temperature                                                         | 08/05/2024 |
| 1.08 | CUI Devices rebranded to Same Sky                                                             | 09/12/2024 |
| 1.09 | changed terminal plating to be silver                                                         | 03/10/2025 |

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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Same Sky 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.

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