

**MODEL:** PJ-102BH | **DESCRIPTION:** DC POWER JACK**FEATURES**

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

**SPECIFICATIONS**

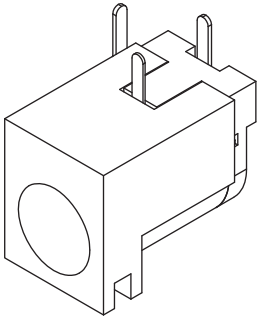
| parameter                  | conditions/description       | min | typ   | max | units  |
|----------------------------|------------------------------|-----|-------|-----|--------|
| rated input voltage        |                              |     | 24    |     | Vdc    |
| rated input current      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

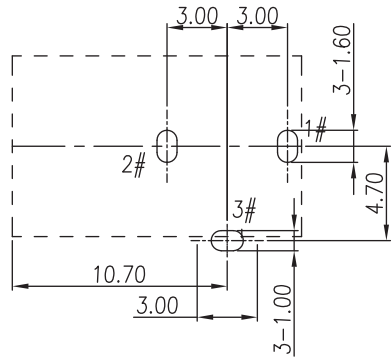
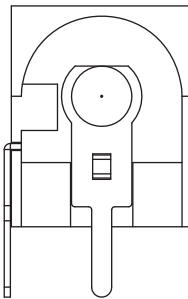
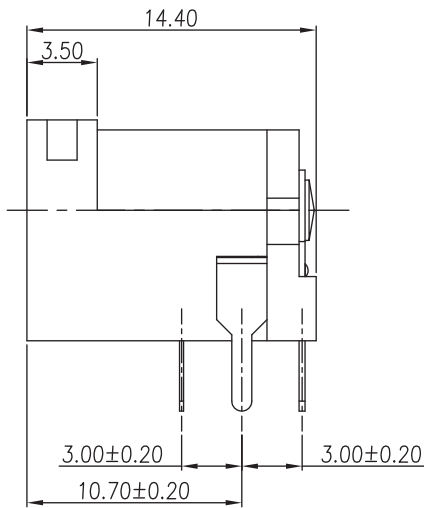
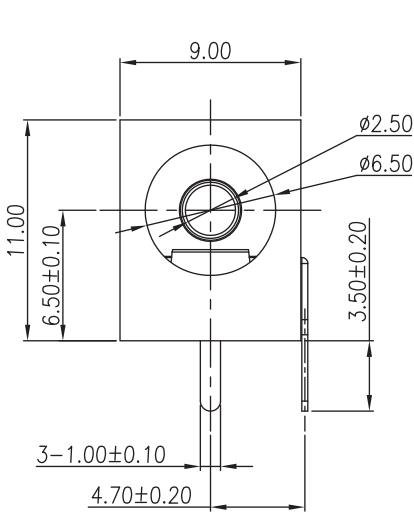
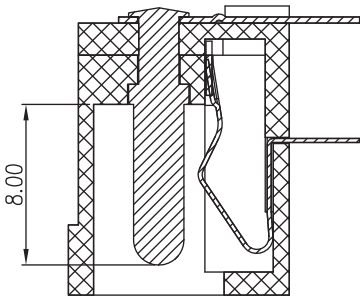
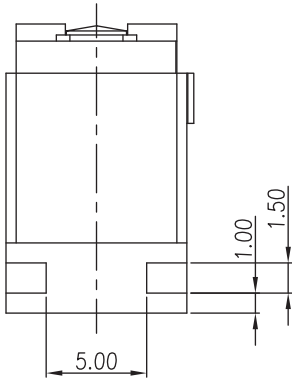
| parameter      | conditions/description                  | min | typ | max | units |
|----------------|-----------------------------------------|-----|-----|-----|-------|
| wave soldering | dipped in solder pot for 5 ±0.5 seconds | 255 | 260 | 265 | °C    |

MECHANICAL DRAWING

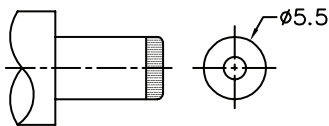
units: mm  
tolerance:  
X ±0.50 mm  
X.X ±0.30 mm  
X.XX ±0.20 mm  
PCB: ±0.05 mm  
unless otherwise specified



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

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