CUDEVICES



# **MODEL:** PJ-037BH | **DESCRIPTION:** DC POWER JACK

### FEATURES

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



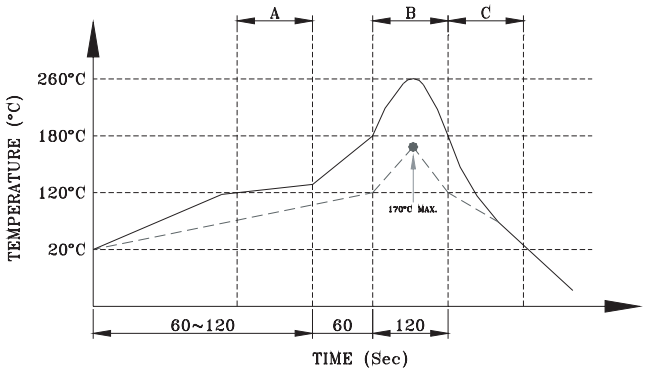
RoHS

## SPECIFICATIONS

| parameter | conditions/description | min | typ | max | units |
|---|---|---|---|---|---|
| rated input voltage | | | 24 | | Vdc |
| rated input current | | | | 5 | A |
| contact resistance | between terminal and mating plug<br>between terminal in a closed circuit | | | 100<br>30 | mΩ<br>mΩ |
| insulation resistance | at 500 Vdc | 100 | | | MΩ |
| voltage withstand | for 1 minute | | | 500 | Vac |
| insertion/withdrawal force | | 0.3 | | 2 | 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 | for max 5 seconds | 255 | 260 | 265 | °C |



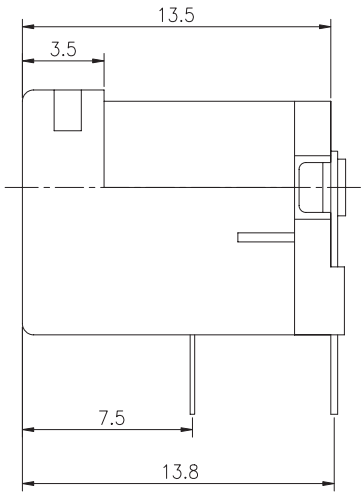

A. Preheating
B. Soldering
C. Cooling

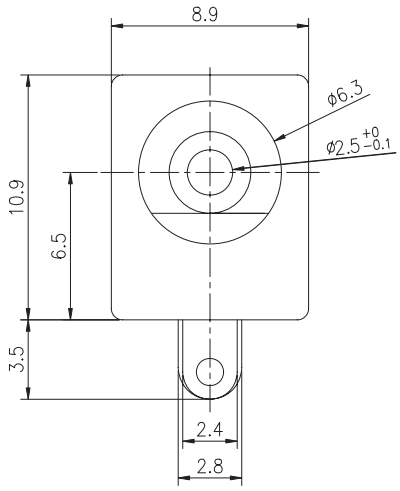
——— Pin Temperature
– – – – Component Temperature

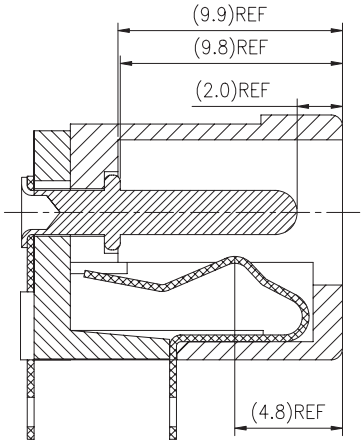
## MECHANICAL DRAWING

units: mm
tolerance:
X.X ±0.20 mm
X.XX ±0.15 mm
X.XXX ±0.10 mm
PCB: ±0.05 mm
unless otherwise specified

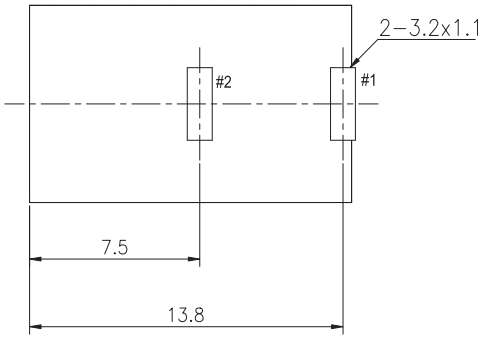
| DESCRIPTION | MATERIAL | PLATING/COLOR |
|---|---|---|
| center pin | copper alloy | nickel |
| terminal 1 | brass t=0.3 mm | nickel-silver |
| terminal 2 | phosphor bronze t=0.3 mm | nickel-silver |
| housing | PBT (UL94V-0) | black |
| cover | PBT (UL94V-0) | black |



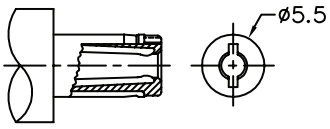



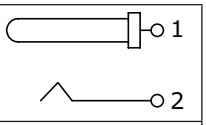

SECTION A-A




Recommended PCB Layout
Top View




MATING PLUG
Jack Insertion Depth: 9.8 mm

| | |
|---|---|
| SCHEMATIC |   |
| Model | PJ-037BH |
| Center Pin | Ø2.5 mm |

## REVISION HISTORY

| rev. | description | date |
|---|---|---|
| 1.0 | initial release | 07/30/2007 |
| 1.01 | cut away area modified | 08/28/2008 |
| 1.02 | added dimensions | 06/24/2011 |
| 1.03 | applied new spec template | 09/12/2013 |
| 1.04 | increased voltage rating | 04/14/2016 |
| 1.05 | brand update | 11/06/2019 |
| 1.06 | logo, datasheet style update | 08/05/2022 |
| 1.07 | product reengineered for improved manufacturability and production yield, see PCN for details | 02/23/2023 |

The revision history provided is for informational purposes only and is believed to be accurate.

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

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