CUI DEVICES



# **MODEL:** PJ-048H | **DESCRIPTION:** DC POWER JACK

### FEATURES

- 3.0 mm center pin
- 5.0 A rating
- right angle orientation
- through hole
- kinked pins



RoHS

## SPECIFICATIONS

| parameter | conditions/description | min | typ | max | units |
|---|---|---|---|---|---|
| rated input voltage | | | | 24 | Vdc |
| rated input current | | | | 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 |
| operating temperature | | -25 | | 85 | °C |
| life | | | 5,000 | | cycles |
| flammability rating | UL94V-0 | | | | |
| RoHS | yes | | | | |

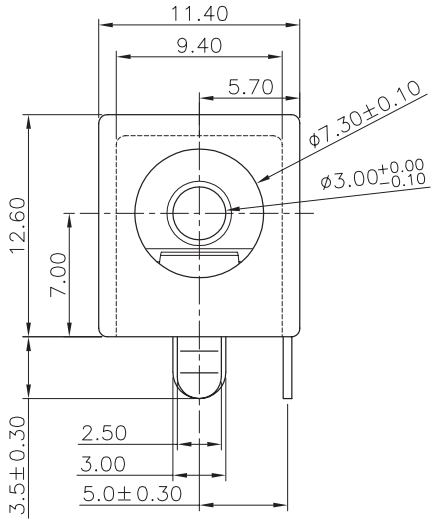
## SOLDERABILITY

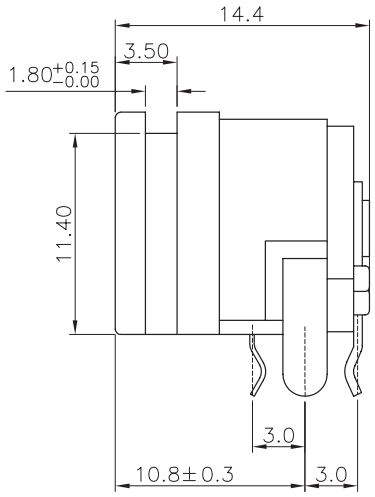
| parameter | conditions/description | min | typ | max | units |
|---|---|---|---|---|---|
| wave soldering | dipped in solder pot for 5 ±0.5 seconds | 255 | 260 | 265 | °C |

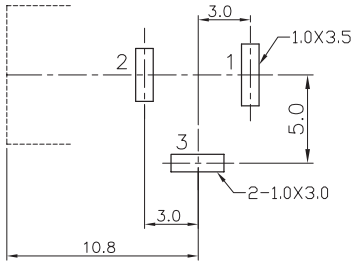
## MECHANICAL DRAWING

units: mm
tolerance:
X. ±0.50 mm
X.X ±0.30 mm
X.XX ±0.20 mm
X.XXX ±0.10 mm
PCB: ±0.05 mm
unless otherwise specified

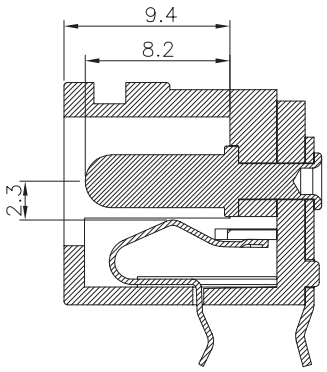
| DESCRIPTION | MATERIAL | PLATING |
|---|---|---|
| center pin | brass | nickel |
| terminal 1 | brass t=0.50 | silver |
| terminal 2 | bronze t=0.30 | silver |
| terminal 3 | brass t=0.50 | silver |
| housing | PBT (UL94V-0) | black |
| cover | PBT (UL94V-0) | black |

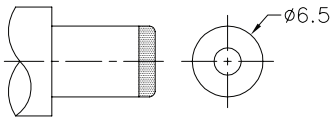


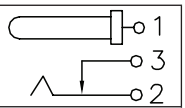




Recommended PCB Layout
Top View




MATING PLUG
Jack Insertion Depth: 9.4 mm

| SCHEMATIC |   |
|---|---|
| Model | PJ-048H |
| Center Pin | Ø3.0 mm |

## REVISION HISTORY

| rev. | description | date |
|---|---|---|
| 1.0 | initial release | 07/30/2007 |
| 1.01 | applied new spec template | 09/12/2013 |
| 1.02 | increased voltage rating | 03/25/2016 |
| 1.03 | brand update | 11/06/2019 |
| 1.04 | logo, datasheet style update | 08/05/2022 |
| 1.05 | product reengineered for improved manufacturability and production yield, see PCN for details | 12/05/2022 |

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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