CUI DEVICES



## MODEL: PJ-037A | DESCRIPTION: DC POWER JACK

### FEATURES

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



RoHS

## SPECIFICATIONS

| parameter | conditions/description | min | typ | max | units |
|---|---|---|---|---|---|
| rated input voltage | | | 24 | | Vdc |
| rated input current | | | | 2.5 | A |
| contact resistance[1] | between terminal and mating plug<br>between terminal in a closed circuit | | | 50<br>30 | mΩ<br>mΩ |
| insulation resistance | at 500 Vdc | 100 | | | MΩ |
| voltage withstand | at 50/60Hz 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 | | | | |

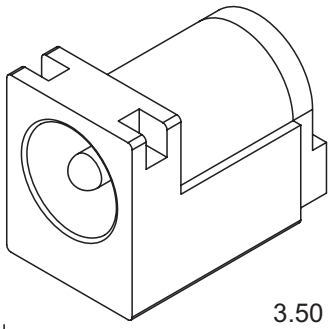
Note: 1. When measured at a current of less than 100 mA/1 kHz

## SOLDERABILITY

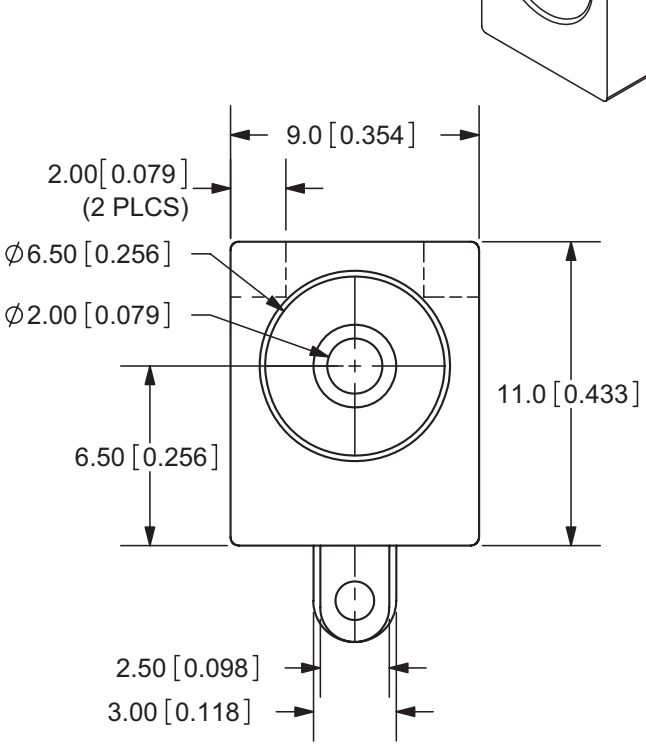
| parameter | conditions/description | min | typ | max | units |
|---|---|---|---|---|---|
| wave soldering | dipped in solder pot for 5 ±0.5 seconds | 255 | 260 | 265 | °C |

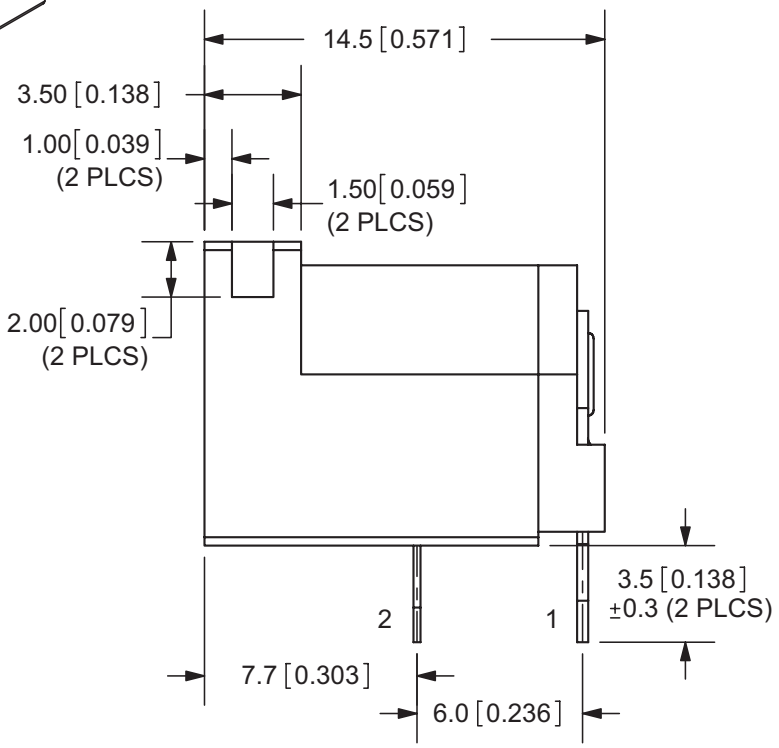
## MECHANICAL DRAWING

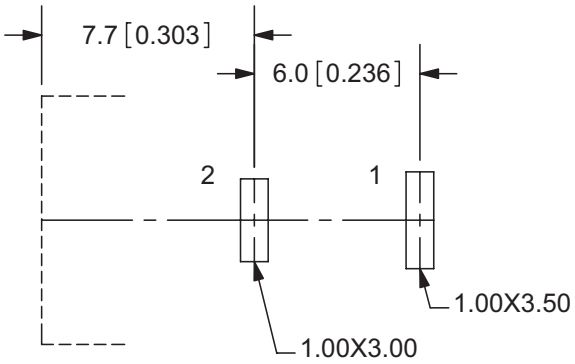
units: mm[inches]
tolerance:
X.X ±0.2mm
X.XX ±0.1mm
X.XXX ±0.05mm



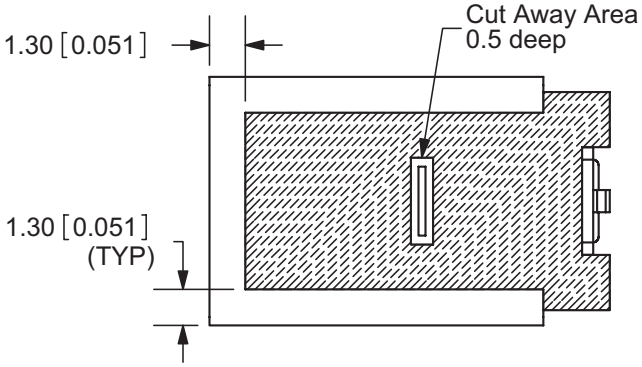
| | MATERIAL | PLATING |
|---|---|---|
| center pin | copper | nickel |
| terminal 1 | brass | tin |
| terminal 2 | copper alloy | tin |
| plastic | PBT | |

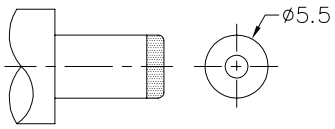


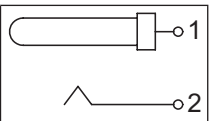




PCB LAYOUT
TOP VIEW




MATING PLUG
Jack Insertion Depth: 9.0 mm

| SCHEMATIC |  |
|---|---|
| Model | PJ-037A |
| Center Pin | Ø2.0 mm |



Note: 1. All specifications measured at 10~35°C, humidity at 45~85%, under standard atmospheric pressure, unless otherwise noted.

## 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 | 06/23/2011 |
| 1.03 | applied new spec template | 01/17/2014 |
| 1.04 | increased voltage rating | 04/08/2016 |
| 1.05 | brand update | 10/28/2019 |

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

CUI DEVICES

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