CUDEVICES



# **MODEL:** PJ-010B | **DESCRIPTION:** DC POWER JACK

## FEATURES

- 2.5 mm center pin
- 2.5 A rating
- vertical orientation
- panel mount



RoHS

DISCONTINUED

## 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 | | | | |

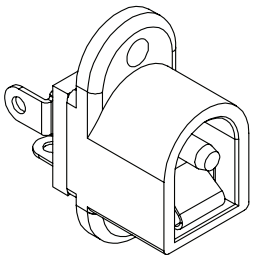
Note: 1. When measured at a current of less than 100 mA/1 kHz

## SOLDERABILITY

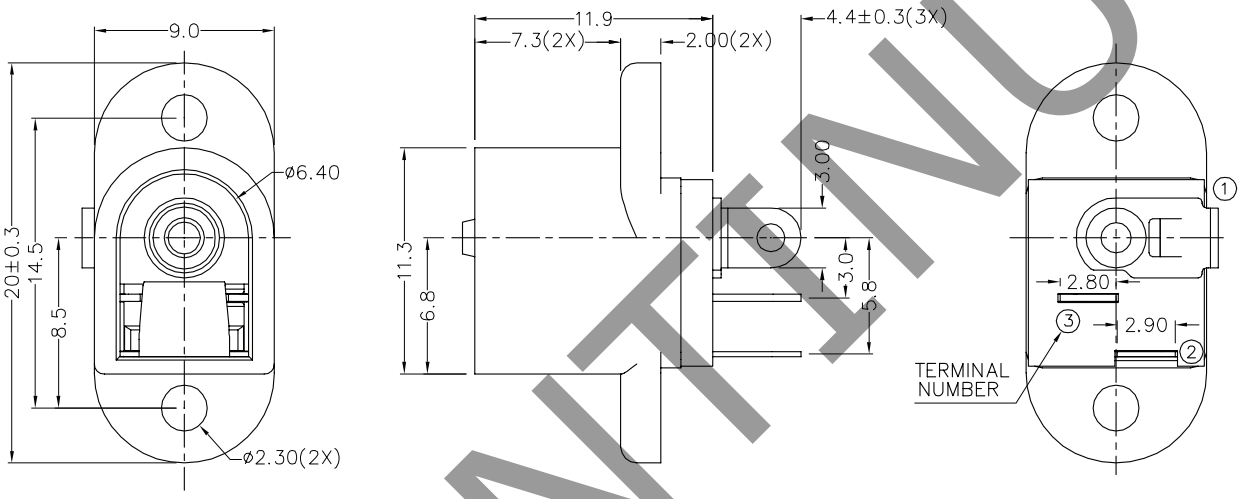
| parameter | conditions/description | min | typ | max | units |
|---|---|---|---|---|---|
| wave soldering | dipped in solder pot for 5 ±0.5 seconds | 255 | 260 | 265 | °C |

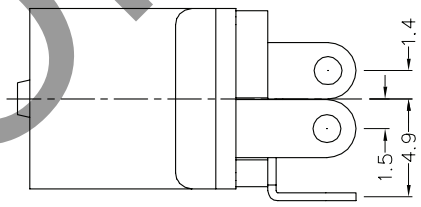
## MECHANICAL DRAWING

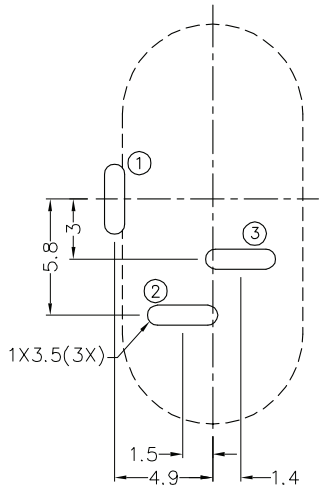
units: mm
tolerance:
X.X ±0.2 mm
X.XX ±0.1 mm
X.XXX ±0.05 mm
PCB: ±0.05 mm



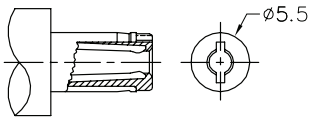
| | MATERIAL | PLATING |
|---|---|---|
| center pin | copper | nickel |
| terminal 1 | brass | tin |
| terminal 2 | copper alloy | tin |
| terminal 3 | brass | tin |
| plastic | PBT | |



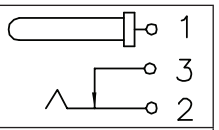




Recommended PCB Layout
Top View




MATING PLUG
Jack Insertion Depth: 7.3 mm

| | |
|---|---|
| SCHEMATIC |  |
| Model | PJ-010B |
| Center Pin | Ø2.5 mm |



DISCONTINUED

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 | 04/17/2006 |
| 1.01 | applied new spec template | 11/01/2013 |
| 1.02 | increased voltage rating | 04/21/2016 |
| 1.03 | brand update | 10/31/2019 |
| 1.04 | modified housing mold | 09/24/2020 |
| 1.05 | logo, datasheet style update | 08/05/2022 |

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

DISCONTINUED

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