

MODEL: PJ-047B | **DESCRIPTION:** DC POWER JACK

FEATURES

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


SPECIFICATIONS

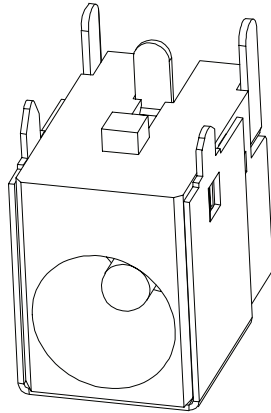
| parameter | conditions/description | min | typ | max | units |
|----------------------------|------------------------|-----|-------|-----|--------|
| rated input voltage | | | 24 | | Vdc |
| rated input current | | | | 2.5 | A |
| contact resistance | | | | 30 | mΩ |
| insulation resistance | at 250 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

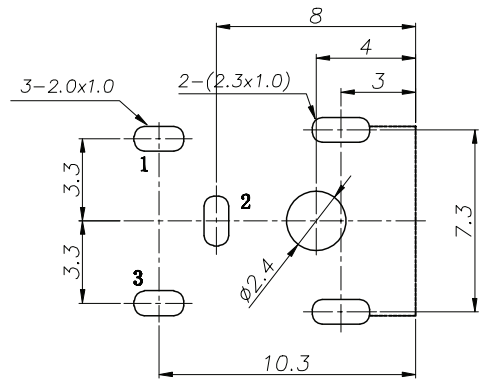
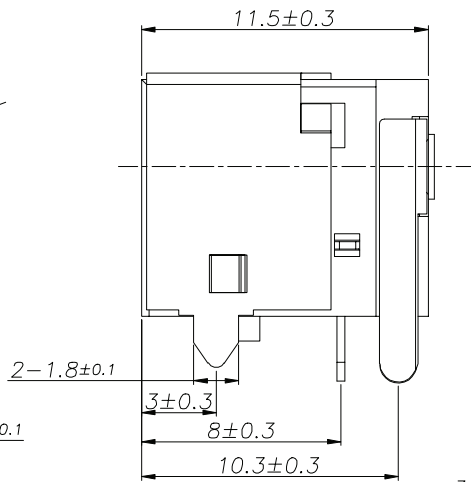
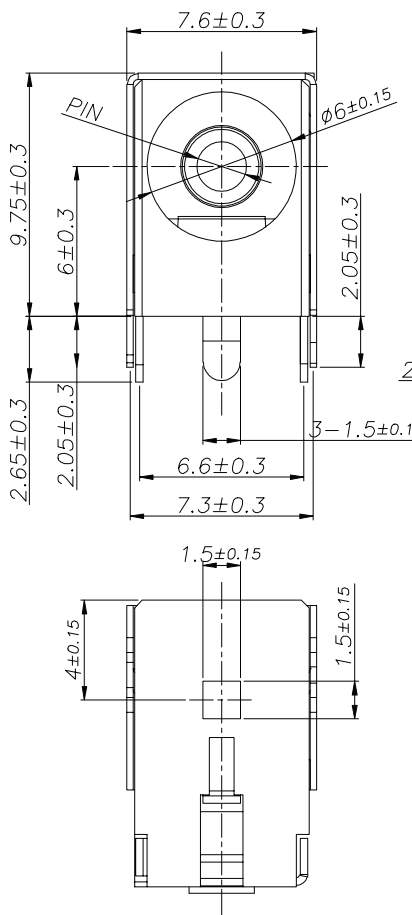
| parameter | conditions/description | min | typ | max | units |
|----------------|--------------------------------------|-----|-----|-----|-------|
| wave soldering | dipped in solder pot for 4~6 seconds | | 250 | | °C |

MECHANICAL DRAWING

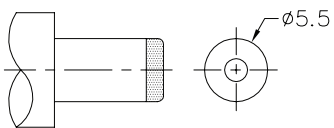
units: mm
 tolerance: ± 0.30 mm
 PCB: ± 0.05 mm
 unless otherwise specified



| DESCRIPTION | MATERIAL | PLATING/COLOR |
|-------------|---------------|---------------|
| center pin | brass | nickel |
| terminal 1 | brass t=0.30 | silver |
| terminal 2 | SUS301 t=0.30 | silver |
| terminal 3 | brass t=0.30 | silver |
| shield | brass t=0.25 | nickel |
| housing | PBT (UL94V-0) | black |



Recommended PCB Layout
 Top View



MATING PLUG
 Jack Insertion Depth: 8.2 mm

| | |
|------------|---------|
| SCHEMATIC | |
| Model | PJ-047B |
| Center Pin | Ø2.5 mm |

REVISION HISTORY

| rev. | description | date |
|------|---|------------|
| 1.0 | initial release | 07/30/2007 |
| 1.01 | shield plating material changed from tin to nickel | 09/30/2009 |
| 1.02 | applied new spec template | 10/21/2013 |
| 1.03 | increased voltage rating | 04/14/2016 |
| 1.04 | brand update | 11/05/2019 |
| 1.05 | logo, datasheet style update | 08/05/2022 |
| 1.06 | 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.



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