

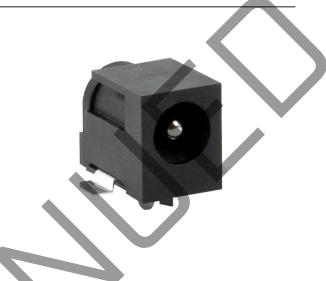
date 08/05/2022

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MODEL: PJ-037BH-SMT-TR | DESCRIPTION: DC POWER JACK

FEATURES

- 2.5mm center pin
- 5.0 A rating
- · horizontal orientation
- surface mount (SMT)





SPECIFICATIONS

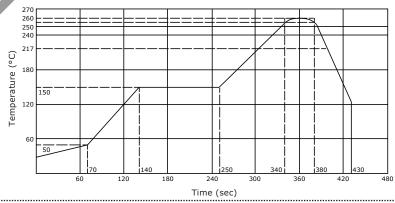
| parameter | conditions/description | min | typ | max | units |
|---------------------------------|--|-----|-------|----------|-----------|
| rated input voltage | | | 24 | | Vdc |
| rated input current | | | - | 5 | А |
| contact resistance ¹ | between terminal and mating plug between terminal in a closed circuit | | | 50 30 | $m\Omega$ |
| insulation resistance | at 500 Vdc | 100 | | | МΩ |
| voltage withstand | for 1 minute | | | 500 | Vac |
| nsertion/withdrawal force | | 0.3 | | 3 | kg |
| operating temperature | | -25 | | 85 | °C |
| life | at a rate of 24 cycles/minute | | 5,000 | | cycles |
| flammability rating | UL94V-0 | | | | |
| RoHS | yes | | | | |

SOLDERABILITY

| parameter | conditions/description | min | typ | max | units |
|--------------------------------|---|-----|-----|-----|-------|
| reel storage | at relative humidity <80% | | | 40 | °C |
| reflow soldering ³ | see reflow profile | 255 | 260 | 265 | °C |
| drying conditions ⁴ | parts in reel: bake at 40°C ±5°C for 72 hours | | | | |

Note:

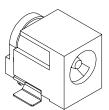
It is recommended to reflow solder within 72 hours from opening vacuum packaging at a temperature <30°C & relative humidity <60%. When exceeding floor life by >72 hours.



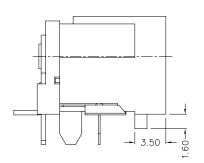
When measured at a current of less than 100 mA/1 kHz
All specifications measured at 10-35°C, humidity at 45-85%, under standard atmospheric pressure, unless otherwise noted.

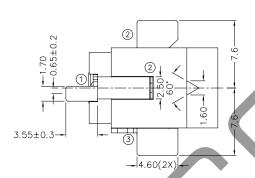
MECHANICAL DRAWING

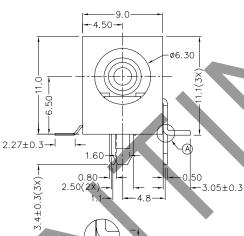
units: mm[inches] tolerance: X.X ±0.2mm X.XX ±0.1mm X.XXX ±0.05mm PCB: ±0.05 mm

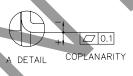


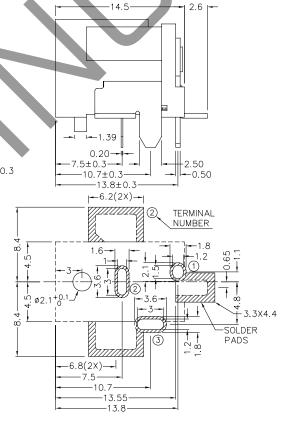
| | MATERIAL | PLATING |
|------------|--------------|---------|
| center pin | copper | nickel |
| terminal 1 | brass | silver |
| terminal 2 | copper alloy | silver |
| terminal 3 | brass | silver |
| plastic | PA10T | |



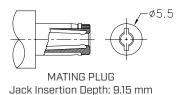








Recommended PCB Layout Top View

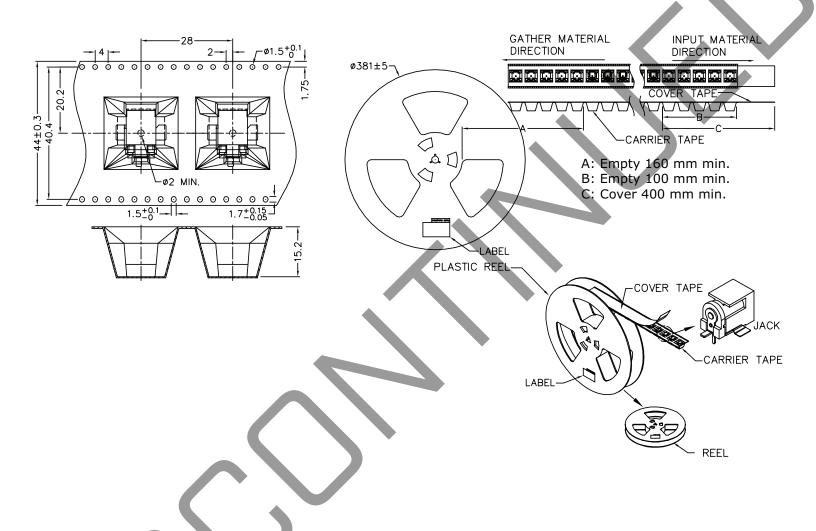


| SCHI | SCHEMATIC | o3 |
|------|------------|---------------|
| | | <u>^</u> +_₀2 |
| | Model | PJ-037BH-SMT |
| | Center Pin | Ø2.5 mm |

PACKAGING

units: mm

Reel Size: Ø381 mm Reel QTY: 200 pcs per reel



REVISION HISTORY

| | deservinties. | dete |
|------|---|------------|
| rev. | description | date |
| 1.0 | initial release | 02/02/2007 |
| 1.01 | added TR package option | 11/07/2012 |
| 1.02 | applied new spec template, updated center pin material | 08/21/2013 |
| 1.03 | increased voltage rating | 04/14/2016 |
| 1.04 | added storage and drying conditions, and tape and reel packaging details | 10/18/2017 |
| 1.05 | brand update | 11/06/2019 |
| 1.06 | logo, datasheet style update | 08/05/2022 |

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





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