

**MODEL:** PJ-028-SMT-TR | **DESCRIPTION:** DC POWER JACK**FEATURES**

- 0.8 mm center pin
- 4 A rating
- right angle orientation
- surface mount (SMT)
- shielded

**SPECIFICATIONS**

| parameter                       | conditions/description   | min | typ   | max      | units    |
|---------------------------------|--|-----|-------|----------|----------|
| rated input voltage             |  |     | 24    |          | Vdc      |
| rated input current             |  |     |       | 4        | A        |
| contact resistance <sup>1</sup> | 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               | for 1 minute   |     |       | 500      | Vac      |
| insertion/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  |     |       |          |          |

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

**SOLDERABILITY**

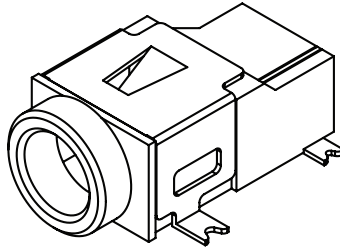
| parameter                      | conditions/description   | min | typ | max | units |
|--------------------------------|--|-----|-----|-----|-------|
| reel storage                   | at relative humidity <80%  |     |     | 40  | °C    |
| reflow soldering <sup>3</sup>  | see reflow profile   | 255 | 260 | 265 | °C    |
| drying conditions <sup>4</sup> | parts in reel: bake at 40°C ±5°C for 72 hours<br>parts removed from reel: bake at 40°C ±5°C for 10 hours |     |     |     |       |

Note: 3. Must reflow solder within 72 hours from opening vacuum packaging at a temperature <30°C & relative humidity <60%.  
4. When exceeding floor life by >72 hours.

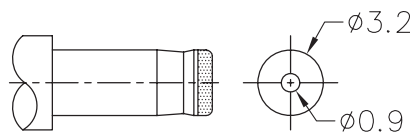
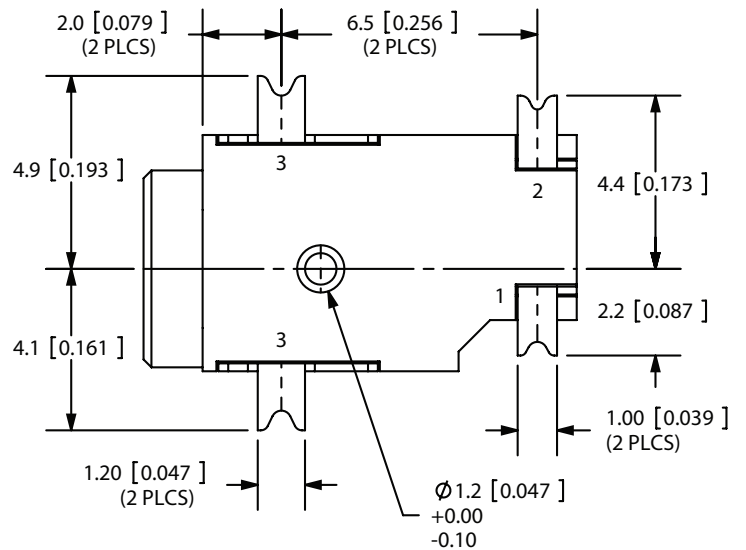
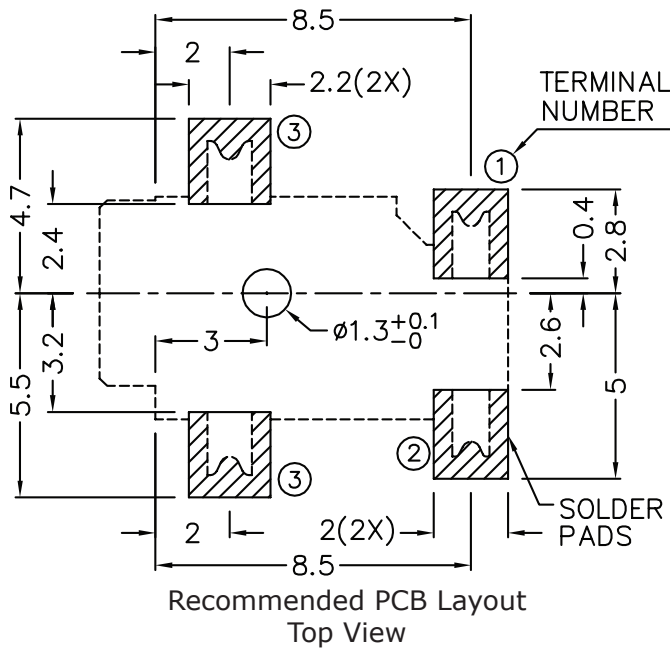
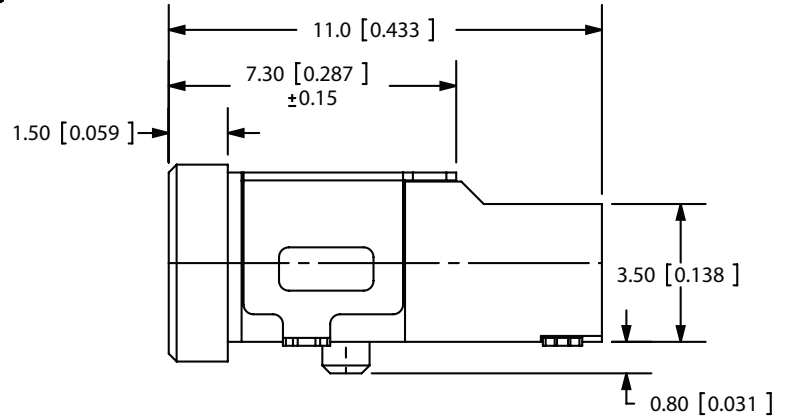
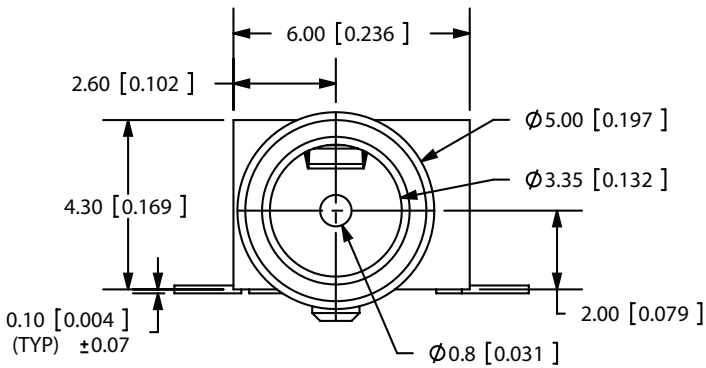


## MECHANICAL DRAWING

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



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



**MATING PLUG**  
 Jack Insertion Depth: 7.0 mm

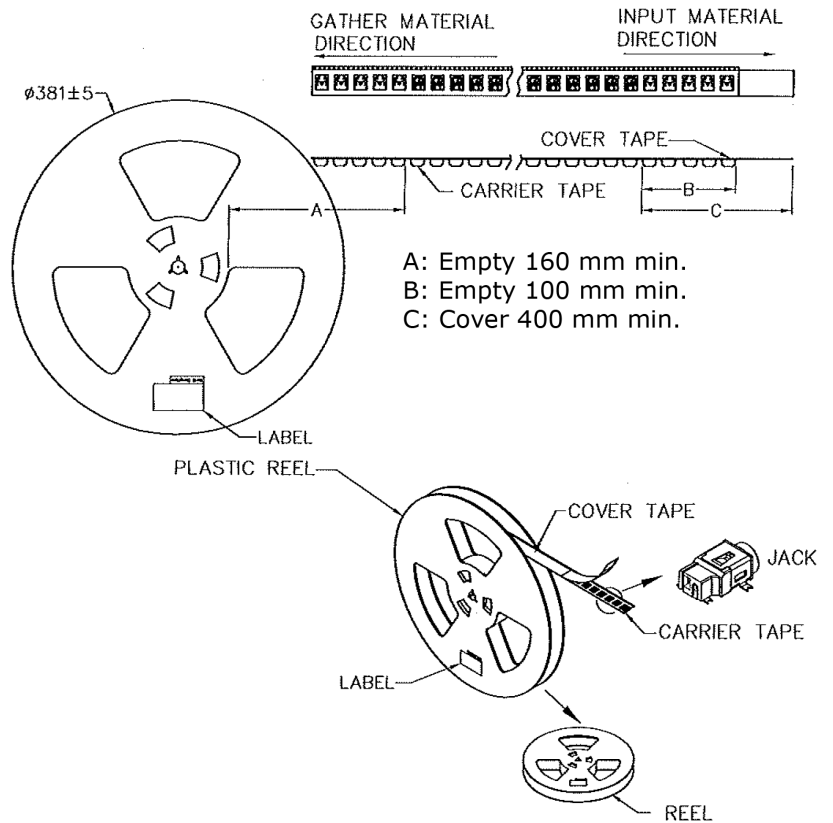
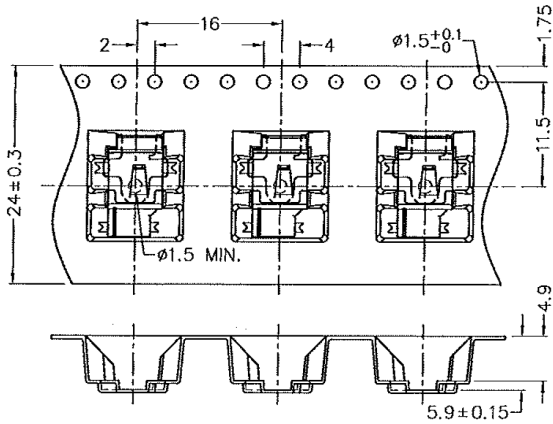
|            |            |
|------------|------------|
| Schematic  |            |
| Model      | PJ-028-SMT |
| Center Pin | Ø0.8 mm    |

## PACKAGING

units: mm

Reel Size: Ø381 mm

Reel QTY: 1,000 pcs per reel



## REVISION HISTORY

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| rev. | description  | date       |
|------|--|------------|
| 1.0  | initial release  | 01/30/2007 |
| 1.01 | added TR package option and jack insertion depth                         | 11/07/2012 |
| 1.02 | applied new spec template  | 08/26/2013 |
| 1.03 | increased voltage rating   | 04/14/2016 |
| 1.04 | added storage and drying conditions, and tape and reel packaging details | 08/24/2017 |
| 1.05 | increased current rating   | 09/05/2018 |
| 1.06 | brand update   | 10/21/2019 |

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

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