

**MODEL:** PJ-002AH-SMT-TR | **DESCRIPTION:** DC POWER JACK**FEATURES**

- high current rating: 5 A
- internal switch
- RoHS compliant

**SPECIFICATIONS**

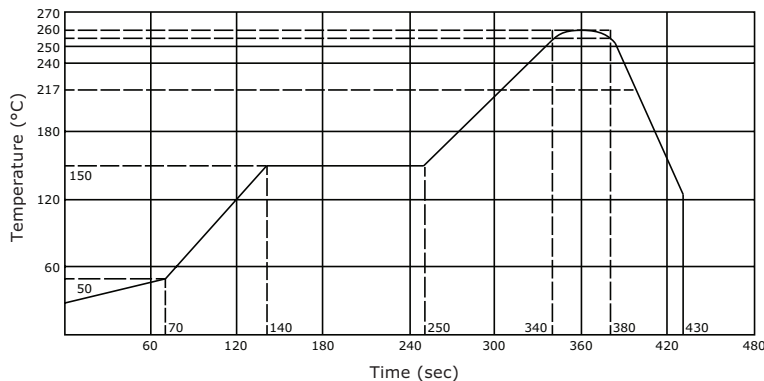
| parameter                       | conditions/description   | min | typ   | max      | units    |
|---------------------------------|--|-----|-------|----------|----------|
| rated input voltage             |  |     | 24    |          | Vdc      |
| rated input current             |  |     |       | 5.0      | 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**

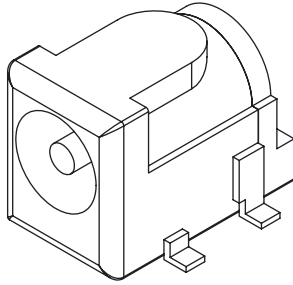
| parameter                      | conditions/description   | min | typ | max | units |
|--------------------------------|--|-----|-----|-----|-------|
| reel storage                   | at relative humidity <80%  |     |     | 40  | °C    |
| reflow soldering <sup>3</sup>  | see reflow profile   | 255 | 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. It is recommended to 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.

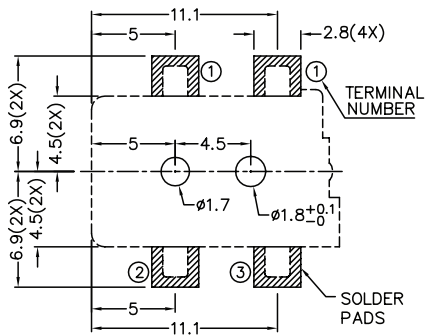
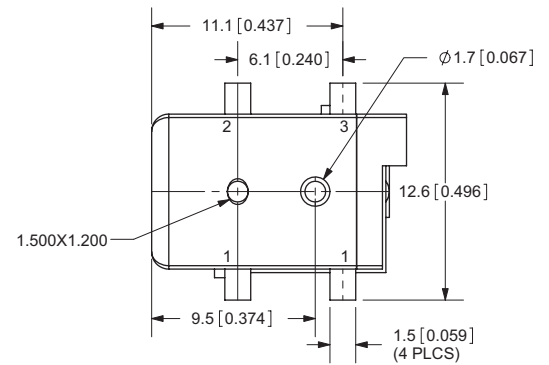
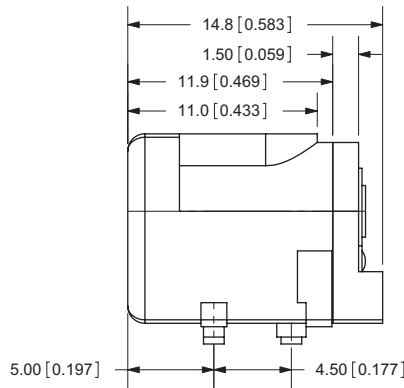
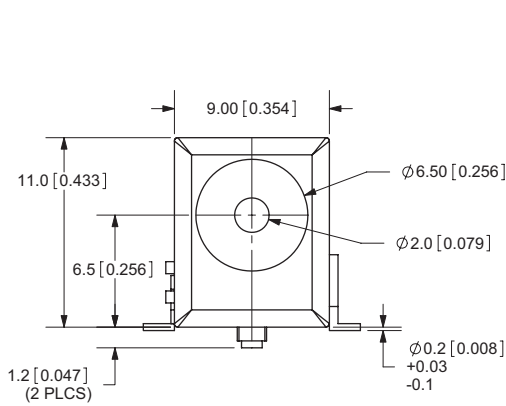


## MECHANICAL DRAWING

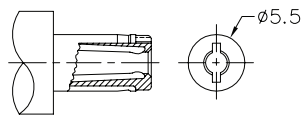
units: mm[inches]  
 tolerance:  
 X.X ±0.2mm  
 X.XX ±0.1mm  
 X.XXX ±0.05mm  
 PCB: ±0.05 mm



|            | MATERIAL           | PLATING |
|------------|--------------------|---------|
| center pin | copper             | nickel  |
| terminal 1 | brass              | silver  |
| terminal 2 | copper alloy       | silver  |
| terminal 3 | brass              | silver  |
| plastic    | PA6T or equivalent |         |



Recommended PCB Layout  
 Top View



MATING PLUG  
 Jack Insertion Depth: 8.9mm

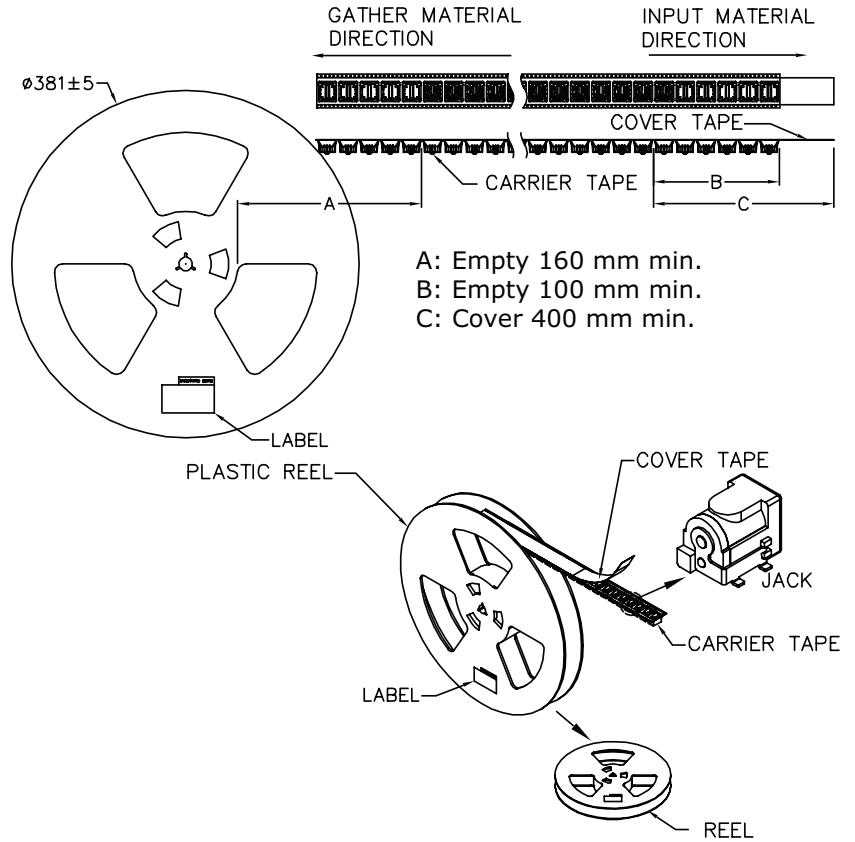
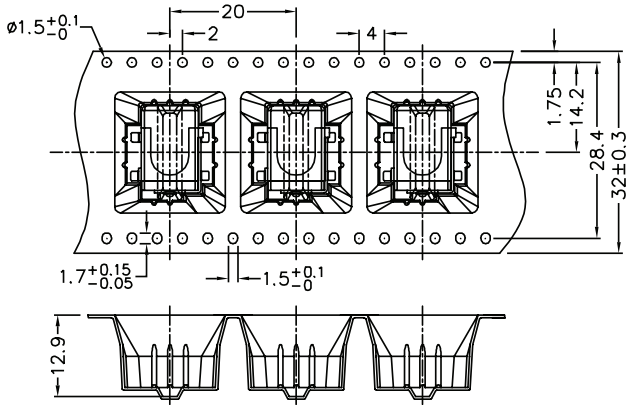
| SCHEMATIC  |                 |
|------------|-----------------|
| Model      | PJ-002AH-SMT-TR |
| Center Pin | Ø2.0 mm         |

## PACKAGING

units: mm

Reel Size:  $\varnothing 381$  mm

Reel QTY: 350 pcs per reel



## REVISION HISTORY

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| rev. | description  | date       |
|------|--|------------|
| 1.0  | initial release  | 10/19/2005 |
| 1.01 | updated operating temperature  | 06/17/2011 |
| 1.02 | added jack insertion depth   | 09/13/2012 |
| 1.03 | added TR package option  | 11/28/2012 |
| 1.04 | increased voltage rating   | 04/28/2016 |
| 1.05 | added storage and drying conditions, and tape and reel packaging details | 10/13/2017 |
| 1.06 | brand update   | 10/30/2019 |

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

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