

MODEL: PJ-035-SMT-TR | **DESCRIPTION:** DC POWER JACK**FEATURES**

- 1.0mm center pin
- 2.0 A rating
- right angle orientation
- surface mount (SMT)
- shielded
- 3 conductor

**SPECIFICATIONS**

| parameter | conditions/description | min | typ | max | units |
|---------------------------------|--|-----|-------|----------|----------|
| rated input voltage | | | 24 | | Vdc |
| rated input current | | | | 2.0 | A |
| contact resistance ¹ | between terminal and mating plug between terminal in a closed circuit | | | 50 30 | mΩ 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

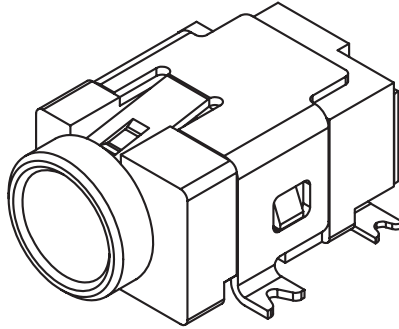
| parameter | conditions/description | min | typ | max | units |
|--------------------------------|--|-----|-----|-----|-------|
| reel storage | at relative humidity <80% | | | 40 | °C |
| reflow soldering ³ | see reflow profile | 255 | 260 | 265 | °C |
| drying conditions ⁴ | parts in reel: bake at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

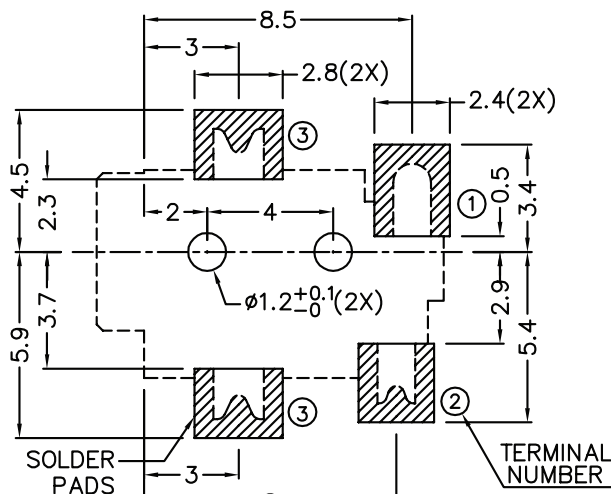
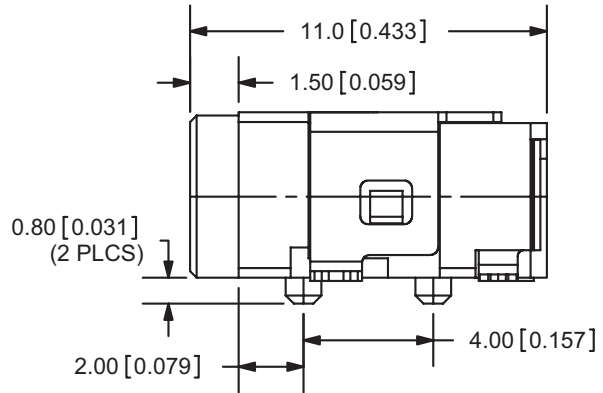
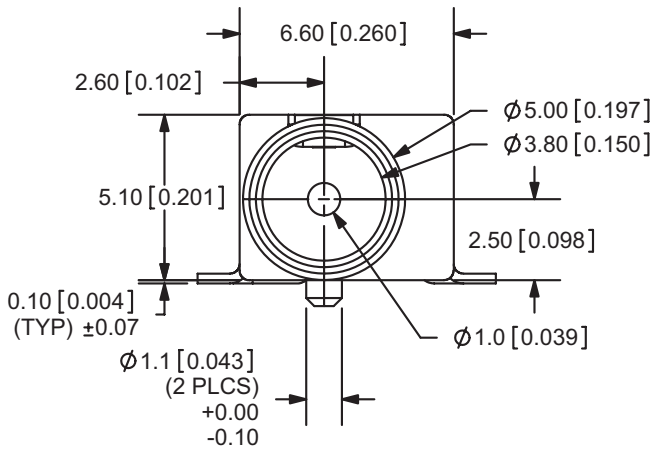


MECHANICAL DRAWING

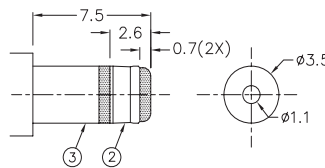
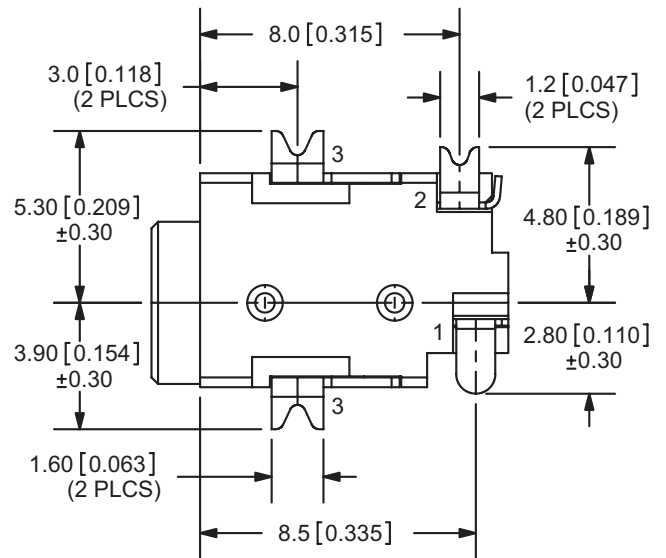
units: mm[inches]
 tolerance:
 X.X ±0.2mm
 X.XX ±0.1mm
 X.XXX ±0.05mm
 PCB: ±0.05 mm



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



Recommended PCB Layout
 Top View



MATING PLUG
 Jack Insertion Depth: 7.3mm

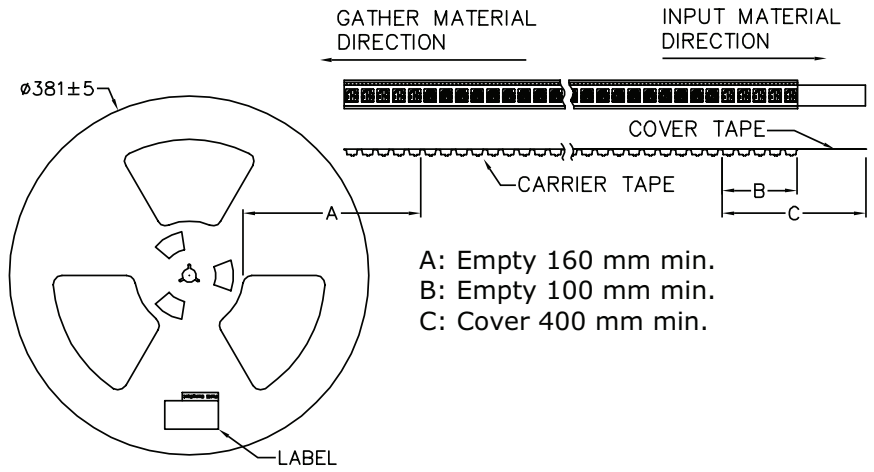
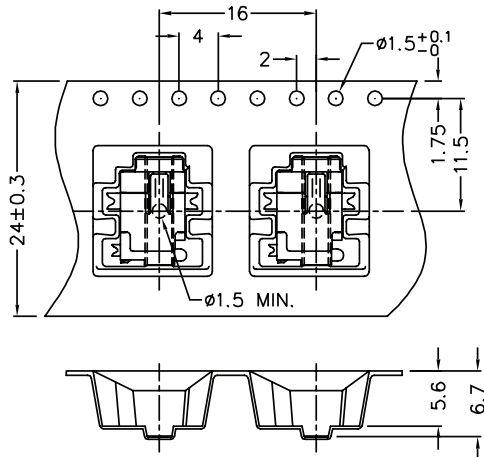
| | |
|------------|---------------|
| SCHEMATIC | |
| Model | PJ-035-SMT |
| Center Pin | $\phi 1.0$ mm |

PACKAGING

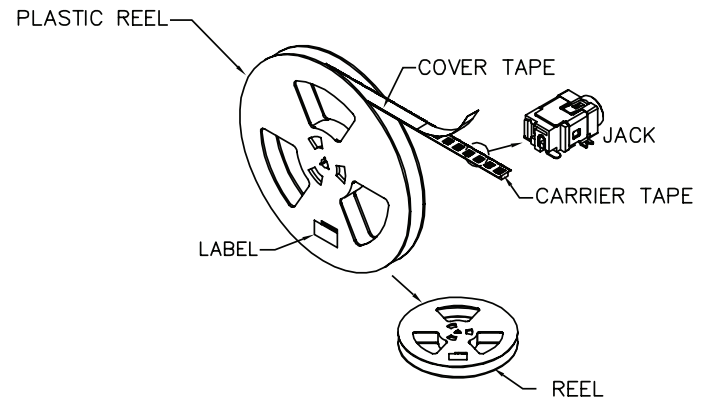
units: mm

Reel Size: $\varnothing 381$ mm

Reel QTY: 850 pcs per reel



- A: Empty 160 mm min.
- B: Empty 100 mm min.
- C: Cover 400 mm min.



REVISION HISTORY

| rev. | description | date |
|------|--|------------|
| 1.0 | initial release | 02/02/2007 |
| 1.01 | updated schematic | 09/27/2007 |
| 1.02 | added TR package option and jack insertion depth | 11/07/2012 |
| 1.03 | applied new spec template | 08/30/2013 |
| 1.04 | increased voltage rating | 04/14/2016 |
| 1.05 | added storage and drying conditions, and tape and reel packaging details | 08/18/2017 |
| 1.06 | product mold modified, pin #2 thickness increased to 0.25 mm | 05/21/2019 |
| 1.07 | brand update | 10/23/2019 |

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

CUI DEVICES

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