

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

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

**SPECIFICATIONS**

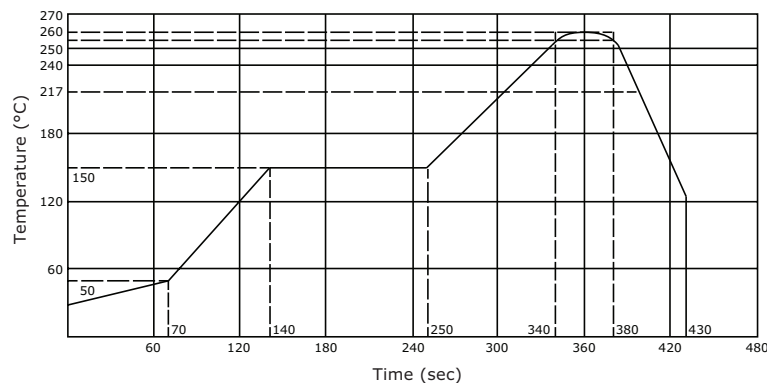
| parameter                       | conditions/description                                                   | min | typ   | max      | units    |
|---------------------------------|--------------------------------------------------------------------------|-----|-------|----------|----------|
| rated input voltage             |                                                                          |     | 24    |          | Vdc      |
| rated input current             |                                                                          |     |       | 5        | 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                            | 2011/65/EU                                                               |     |       |          |          |

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]

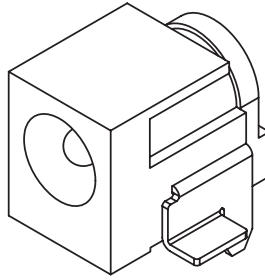
tolerance:

X.X  $\pm 0.2$ mm

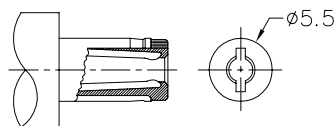
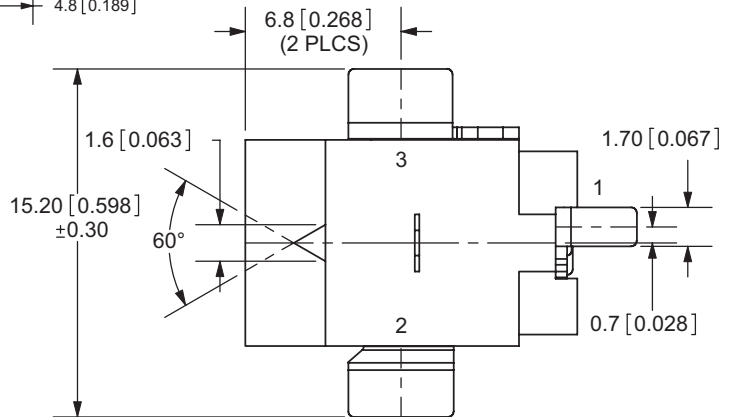
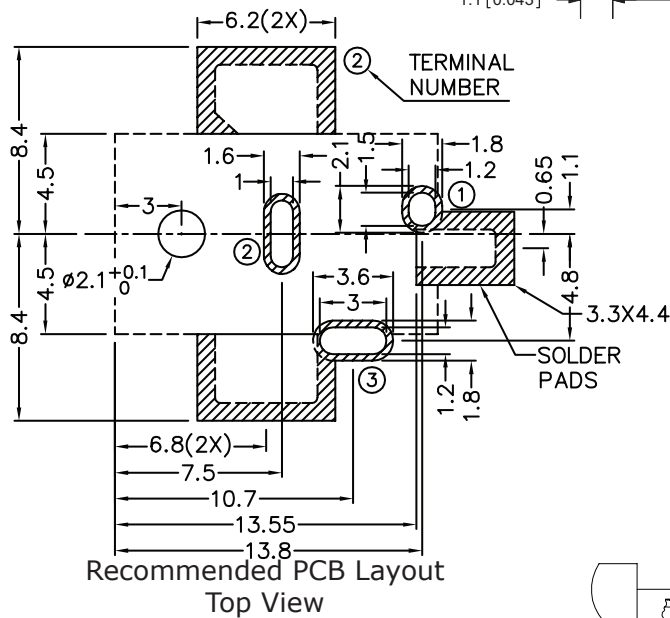
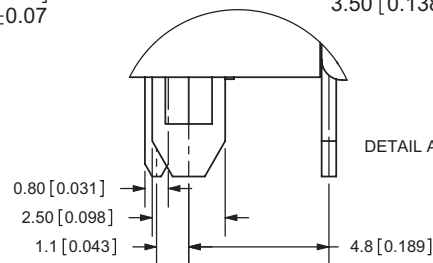
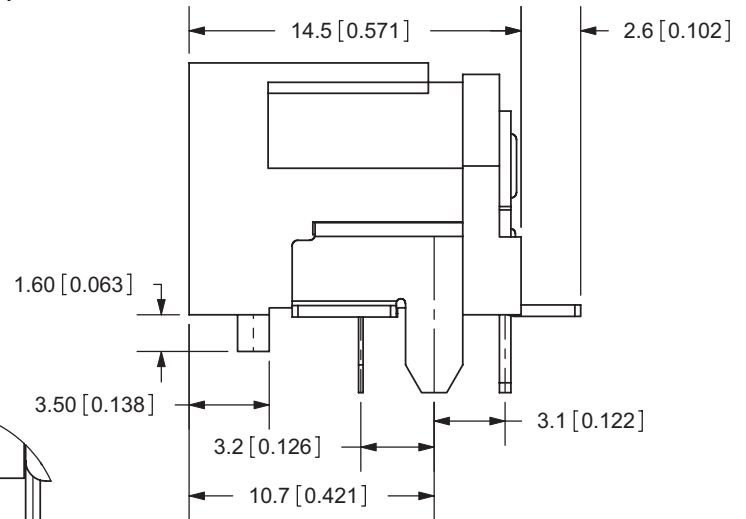
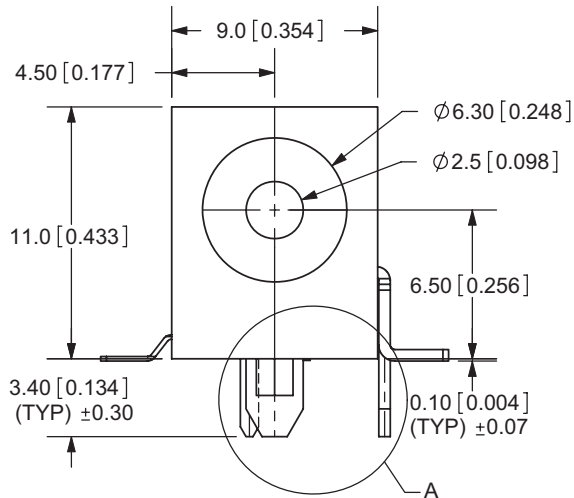
X.XX  $\pm 0.1$ mm

X.XXX  $\pm 0.05$ mm

PCB:  $\pm 0.05$  mm



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



MATING PLUG  
Jack Insertion Depth: 9.15 mm

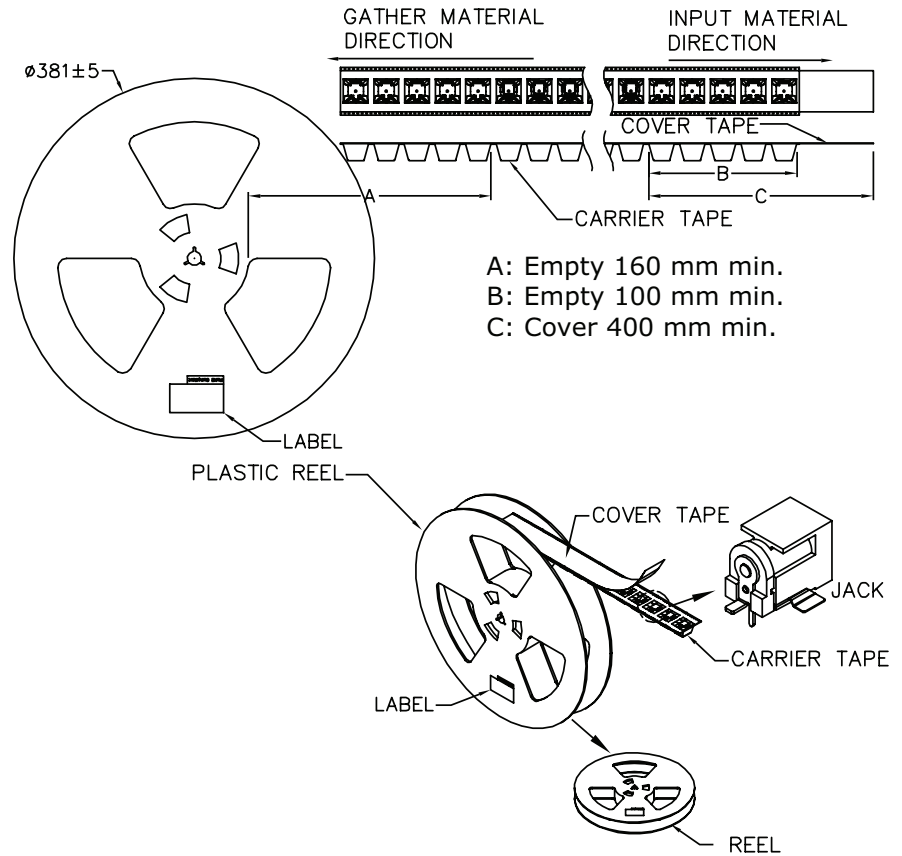
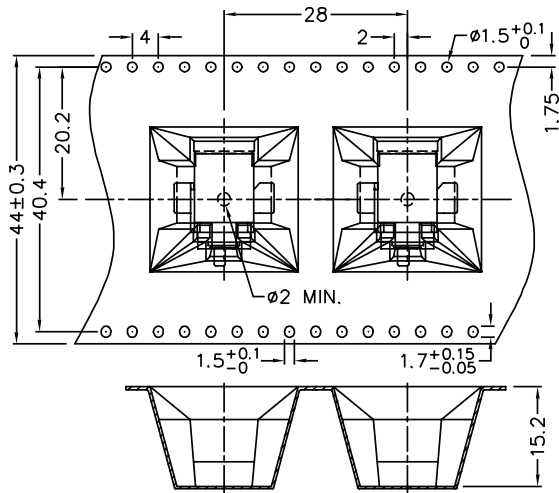
|            |              |
|------------|--------------|
| SCHEMATIC  |              |
| Model      | PJ-037BH-SMT |
| Center Pin | Ø2.5 mm      |

## PACKAGING

units: mm

Reel Size: Ø381 mm

Reel QTY: 200 pcs per reel



## REVISION HISTORY

| 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 |

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



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