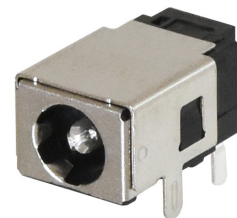


**MODEL:** PJ-086H | **DESCRIPTION:** DC POWER JACK**FEATURES**

- 1.65 mm center pin
- 5 A rating
- shielded
- through hole
- 1 switch

**SPECIFICATIONS**

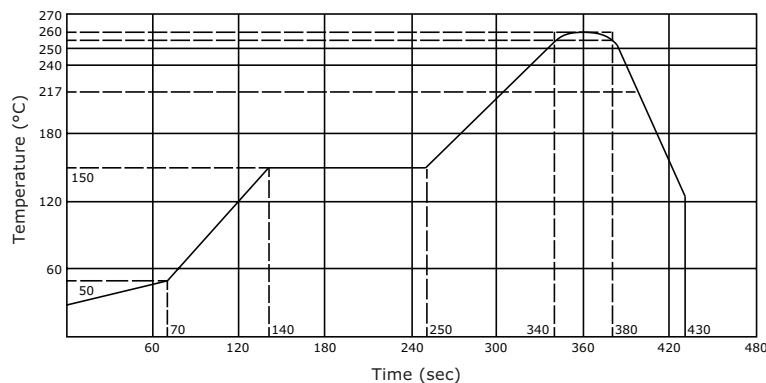
| parameter                       | conditions/description                                                   | min | typ   | max      | units    |
|---------------------------------|--------------------------------------------------------------------------|-----|-------|----------|----------|
| rated 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 between adjacent contacts                                     | 100 |       |          | MΩ       |
| voltage withstand               | for 1 minute, 0.5 mA between adjacent contacts                           |     |       | 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**

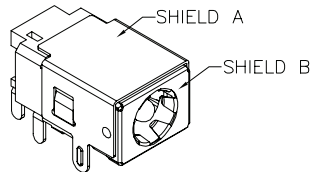
| parameter                      | conditions/description                                                                                   | min | typ | max | units |
|--------------------------------|----------------------------------------------------------------------------------------------------------|-----|-----|-----|-------|
| 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.

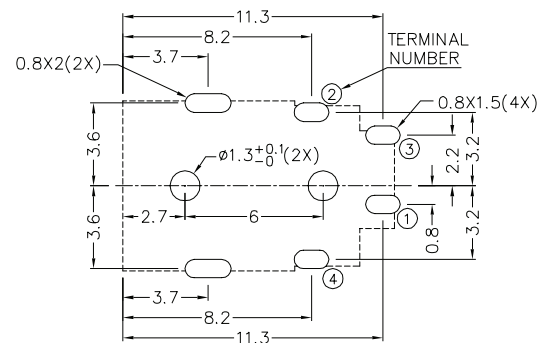
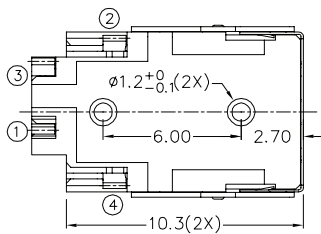
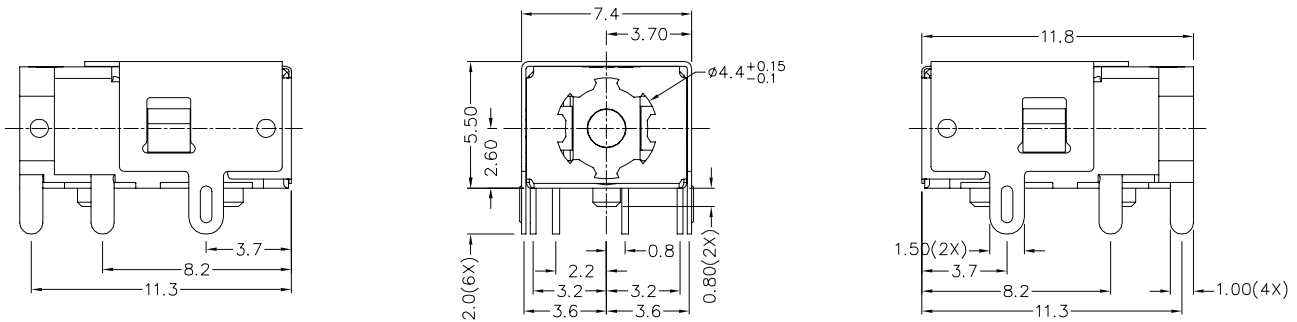


# MECHANICAL DRAWING

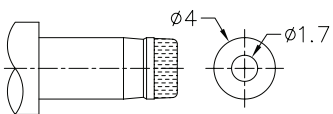
units: mm  
tolerance:  
X.X  $\pm 0.2$  mm  
X.XX  $\pm 0.10$  mm  
X.XXX  $\pm 0.050$  mm  
PCB:  $\pm 0.05$  mm



|            | MATERIAL        | PLATING |
|------------|-----------------|---------|
| center pin | brass           | silver  |
| terminal 1 | brass           | silver  |
| terminal 2 | copper alloy    | silver  |
| terminal 3 | brass           | silver  |
| terminal 4 | copper alloy    | silver  |
| shield A   | brass           | nickel  |
| shield B   | stainless steel |         |
| insulator  | PA10T           |         |



Recommended PCB Layout  
Top View



MATING PLUG  
Jack Insertion Depth: 8.2 mm

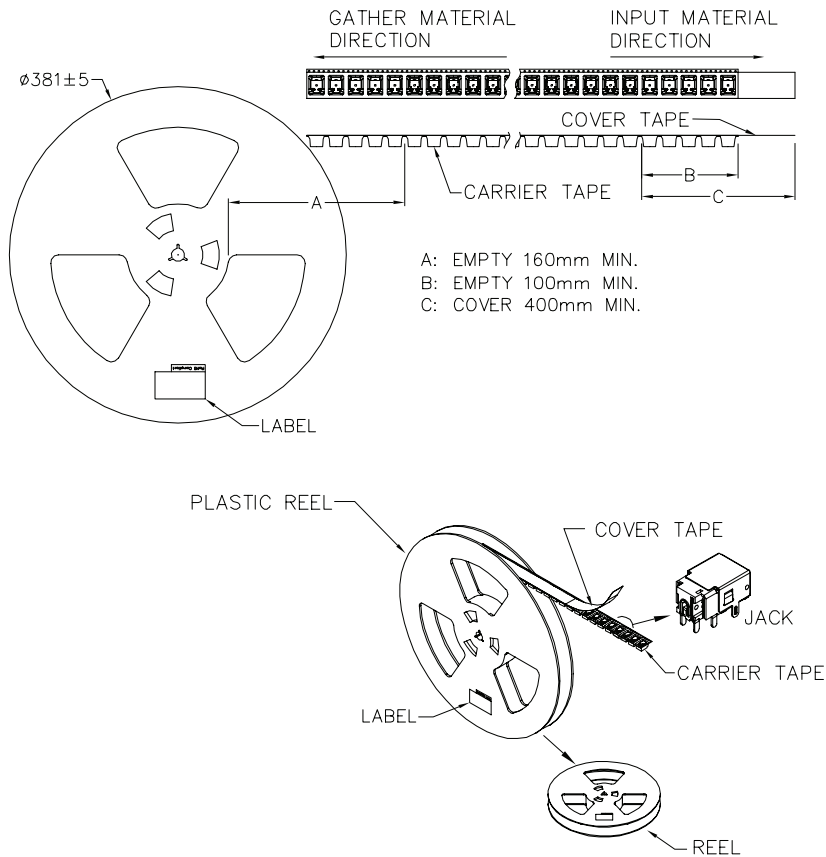
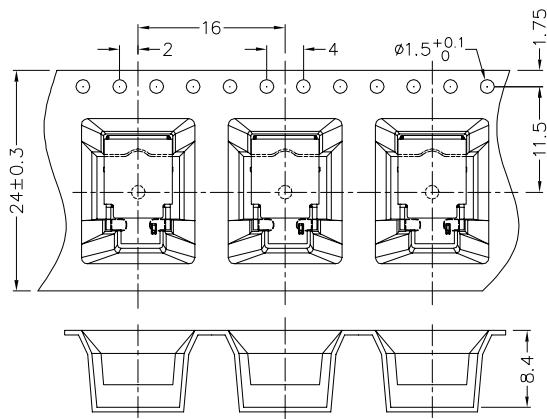
|            |                                                                                     |
|------------|-------------------------------------------------------------------------------------|
| SCHEMATIC  |  |
| Model      | PJ-086H                                                                             |
| Center Pin | Ø1.65 mm                                                                            |

## PACKAGING

units: mm

Reel Size:  $\varnothing 381$  mm

Reel QTY: 700 pcs per reel



## REVISION HISTORY

| rev. | description     | date       |
|------|-----------------|------------|
| 1.0  | initial release | 12/13/2018 |
| 1.01 | brand update    | 10/25/2019 |

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

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