

**MODEL:** PJ-001DH-67 | **DESCRIPTION:** DC POWER JACK**FEATURES**

- IP67 waterproof
- low profile
- through hole
- reflow solder compatible
- shielded

**SPECIFICATIONS**

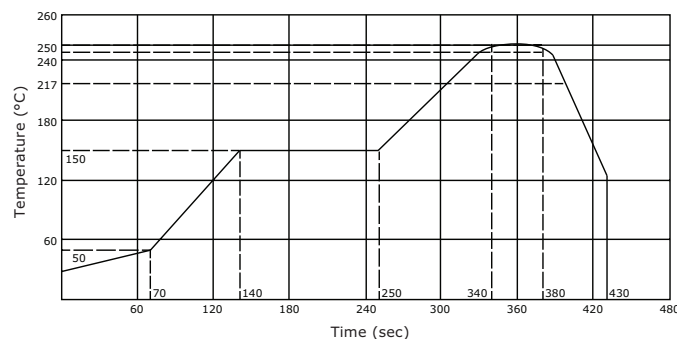
| parameter                       | conditions/description   | min | typ   | max      | units    |
|---------------------------------|--|-----|-------|----------|----------|
| rated input voltage             |  |     | 24    |          | Vdc      |
| rated input current             |  |     |       | 3.5      | 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                            | yes  |     |       |          |          |
| IP level                        | IP67   |     |       |          |          |

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**

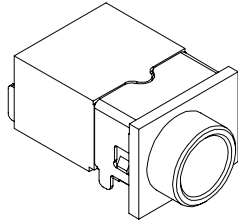
| parameter                      | conditions/description   | min | typ | max | units |
|--------------------------------|--|-----|-----|-----|-------|
| reel storage                   | at relative humidity <80%  |     |     | 40  | °C    |
| reflow soldering <sup>3</sup>  | see reflow profile   | 245 | 250 | 255 | °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.

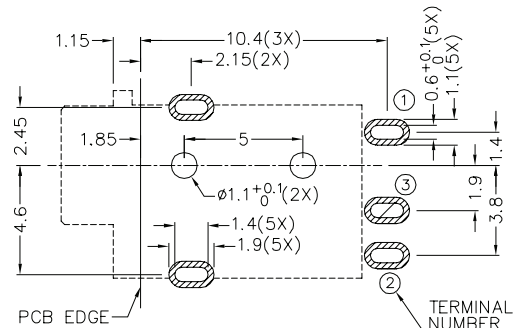
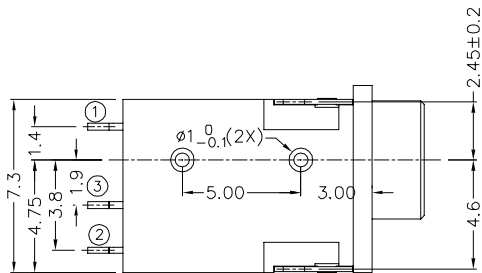
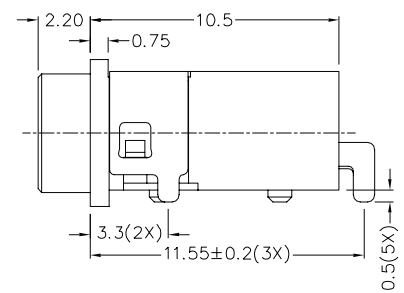
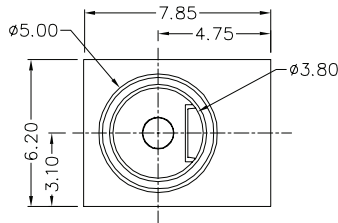
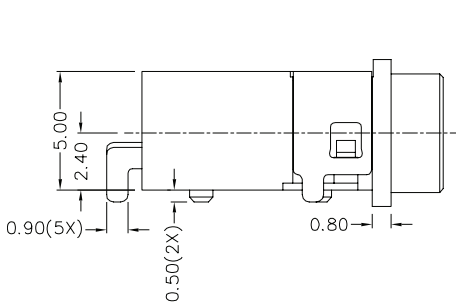


## MECHANICAL DRAWING

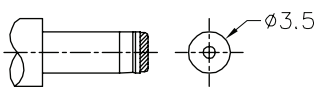
units: mm  
 tolerance:  
 X.X ±0.2 mm  
 X.XX ±0.10 mm  
 X.XXX ±0.050 mm  
 PCB: ±0.05 mm



|                | MATERIAL     | PLATING    |
|----------------|--------------|------------|
| terminal 1     | brass        | gold flash |
| terminal 2     | copper alloy | gold flash |
| terminal 3     | brass        | gold flash |
| shield         | brass        | nickel     |
| insulator      | PA10T        |            |
| o-ring (OR-20) | silicone     |            |



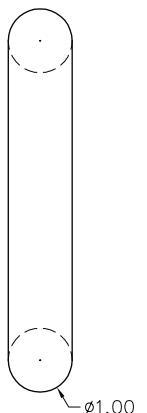
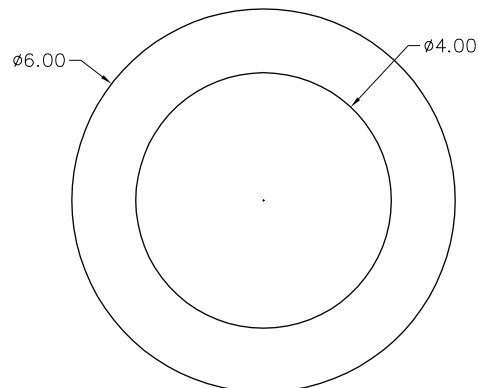
Recommended PCB Layout  
Top View



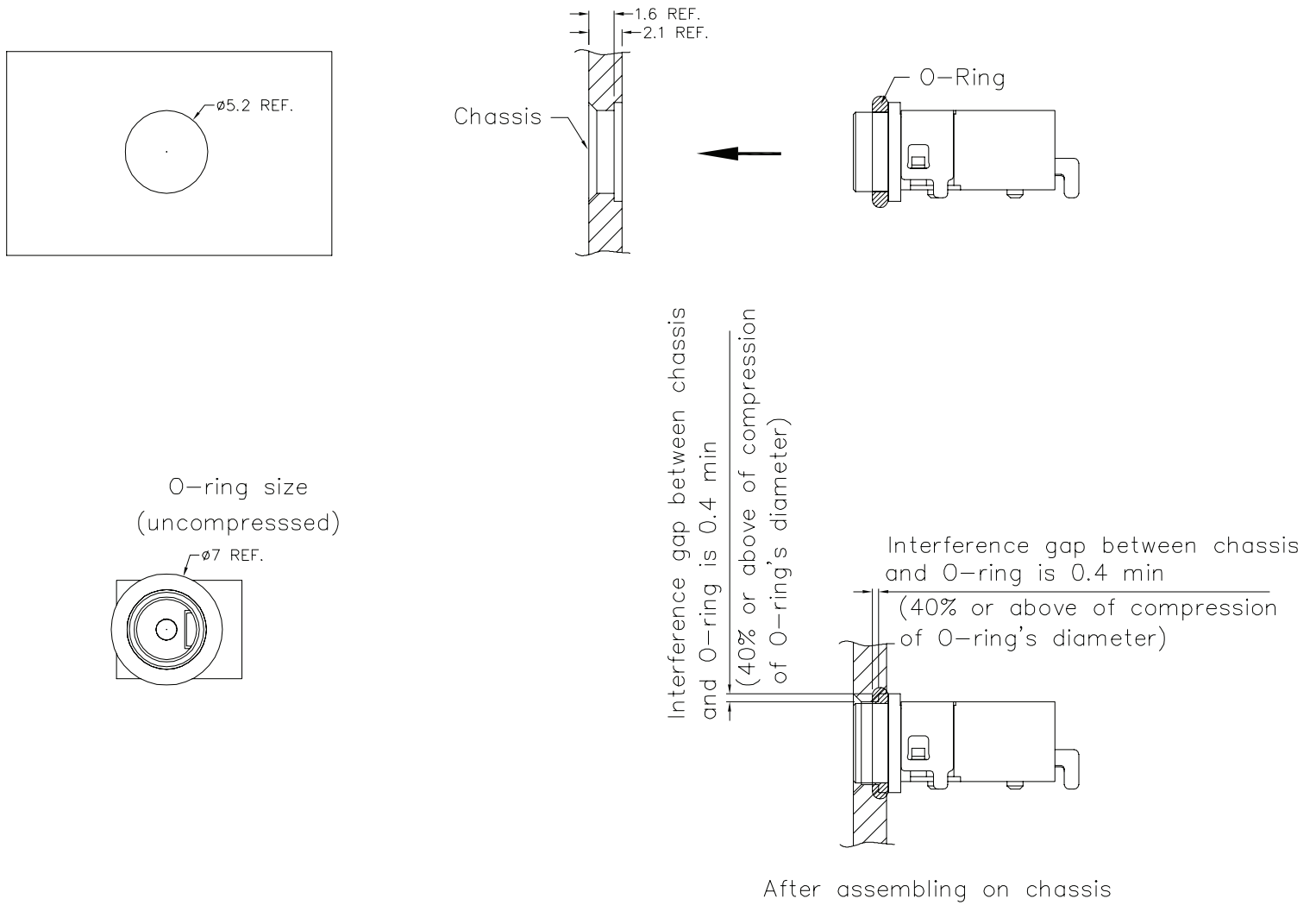
**MATING PLUG**  
 Jack Insertion Depth: 8.5 mm

|            |             |
|------------|-------------|
| SCHEMATIC  | 1<br>3<br>2 |
| Model      | PJ-001DH-67 |
| Center Pin | Ø1.3 mm     |

### O-ring (P/N: OR-20)



## ASSEMBLY REFERENCE

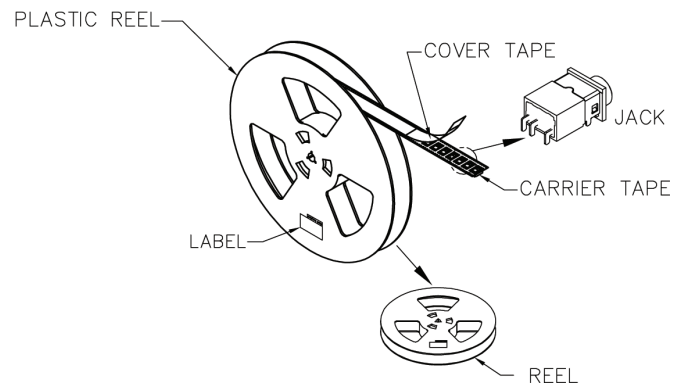
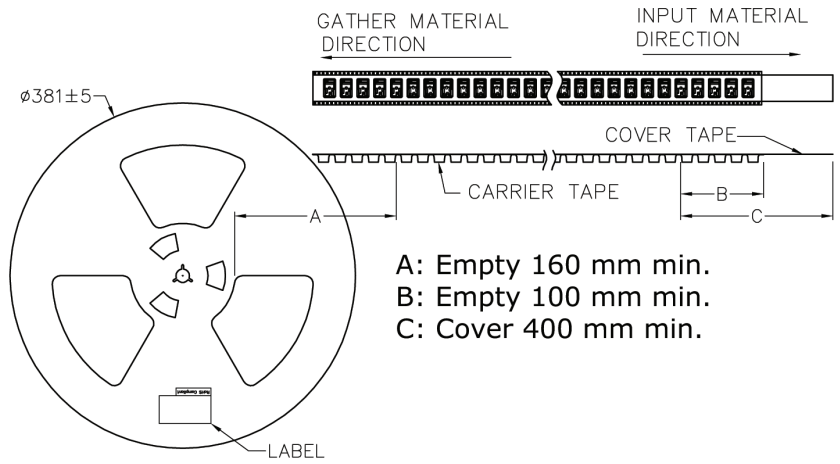
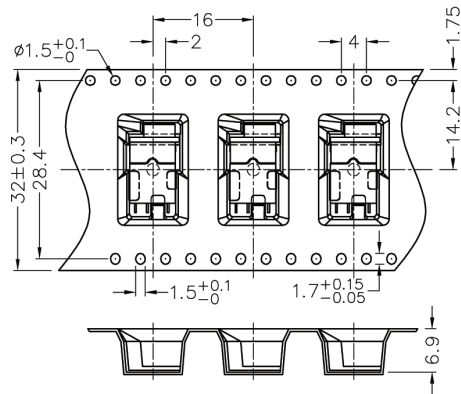


## PACKAGING

units: mm

Reel Size: Ø381 mm

Reel QTY: 800 pcs per reel



## REVISION HISTORY

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| rev. | description      | date       |
|------|------------------|------------|
| 1.0  | initial release  | 08/07/2018 |
| 1.01 | brand update     | 10/25/2019 |
| 1.02 | added o-ring p/n | 04/07/2022 |

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

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