

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

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

**SPECIFICATIONS**

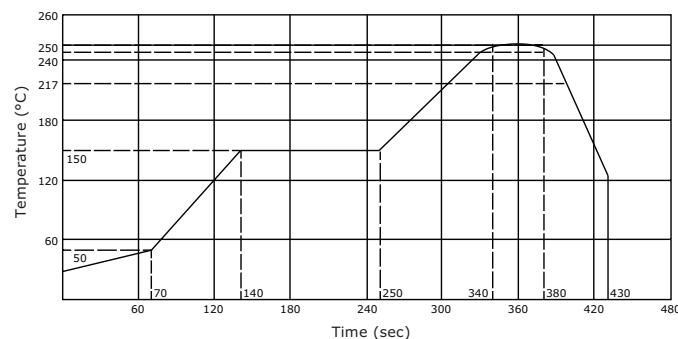
| parameter                       | conditions/description                 | min | typ   | max | units  |
|---------------------------------|----------------------------------------|-----|-------|-----|--------|
| rated input voltage             |                                        |     | 24    |     | Vdc    |
| rated input current             |                                        |     |       | 5   | A      |
| contact resistance <sup>1</sup> | between terminal and mating plug       |     |       | 50  | mΩ     |
|                                 | between terminal in a closed circuit   |     |       | 30  | mΩ     |
| insulation resistance           | at 500 Vdc between adjacent contacts   | 100 |       |     | MΩ     |
| voltage withstand               | for 1 minute 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                                    |     |       |     |        |
| 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**

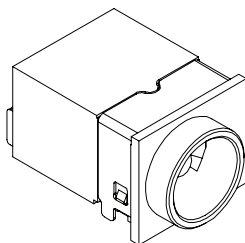
| parameter                      | conditions/description                                                                                   | min | typ | max | units |
|--------------------------------|----------------------------------------------------------------------------------------------------------|-----|-----|-----|-------|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

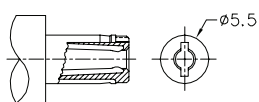
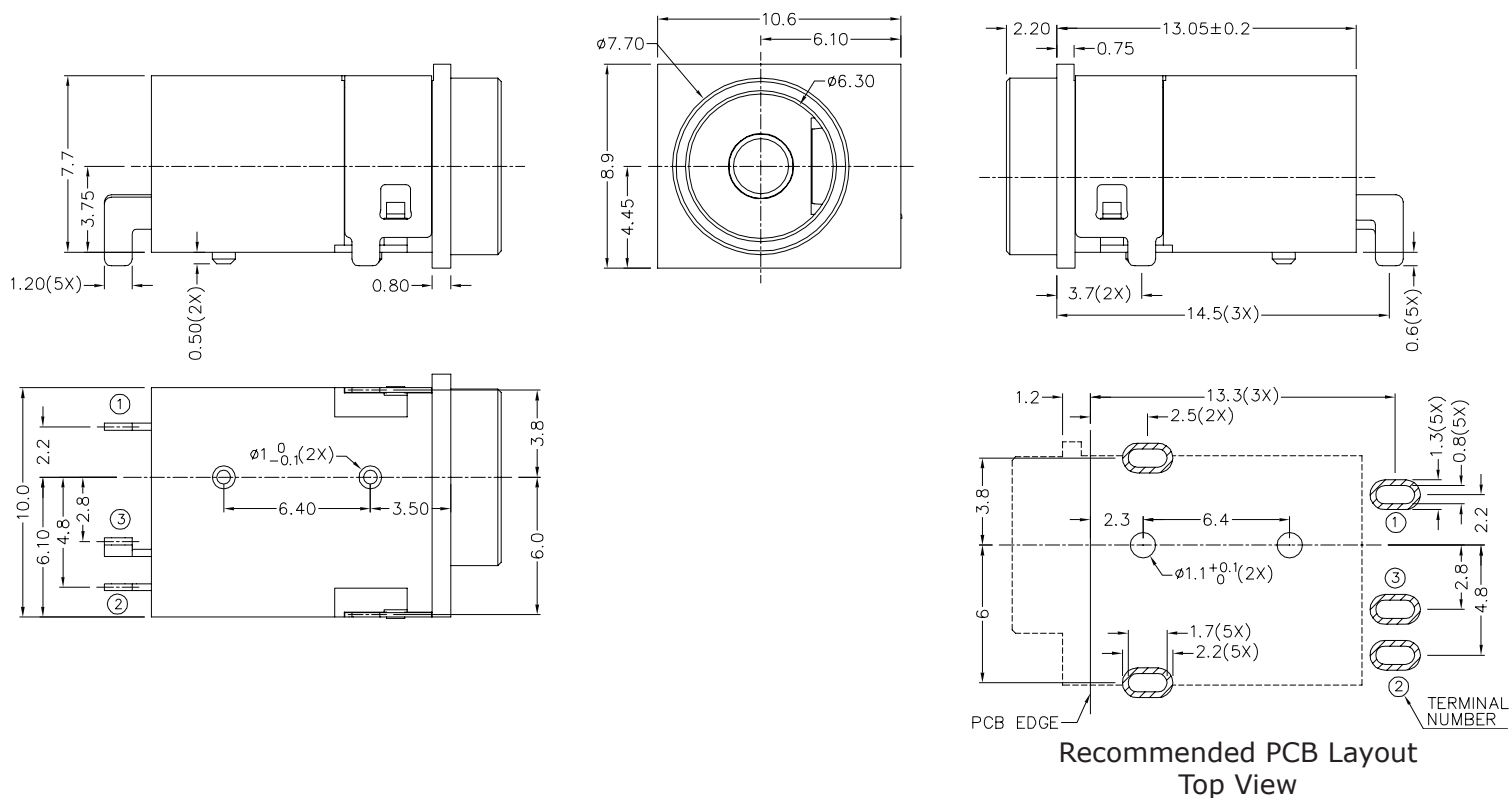


## MECHANICAL DRAWING

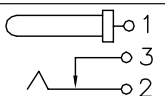
units: mm  
 tolerance:  
 X.X  $\pm 0.2$  mm  
 X.XX  $\pm 0.10$  mm  
 X.XXX  $\pm 0.050$  mm  
 PCB:  $\pm 0.05$  mm



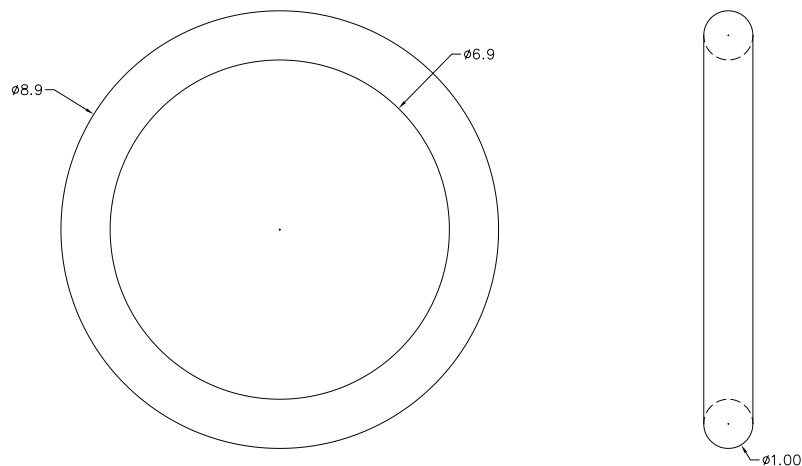
|                | MATERIAL     | PLATING    |
|----------------|--------------|------------|
| terminal 1     | brass        | gold flash |
| terminal 2     | copper alloy | gold flash |
| terminal 3     | brass        | gold flash |
| shield         | brass        | nickel     |
| insulator      | PA10T        |            |
| o-ring (OR-70) | silicone     |            |



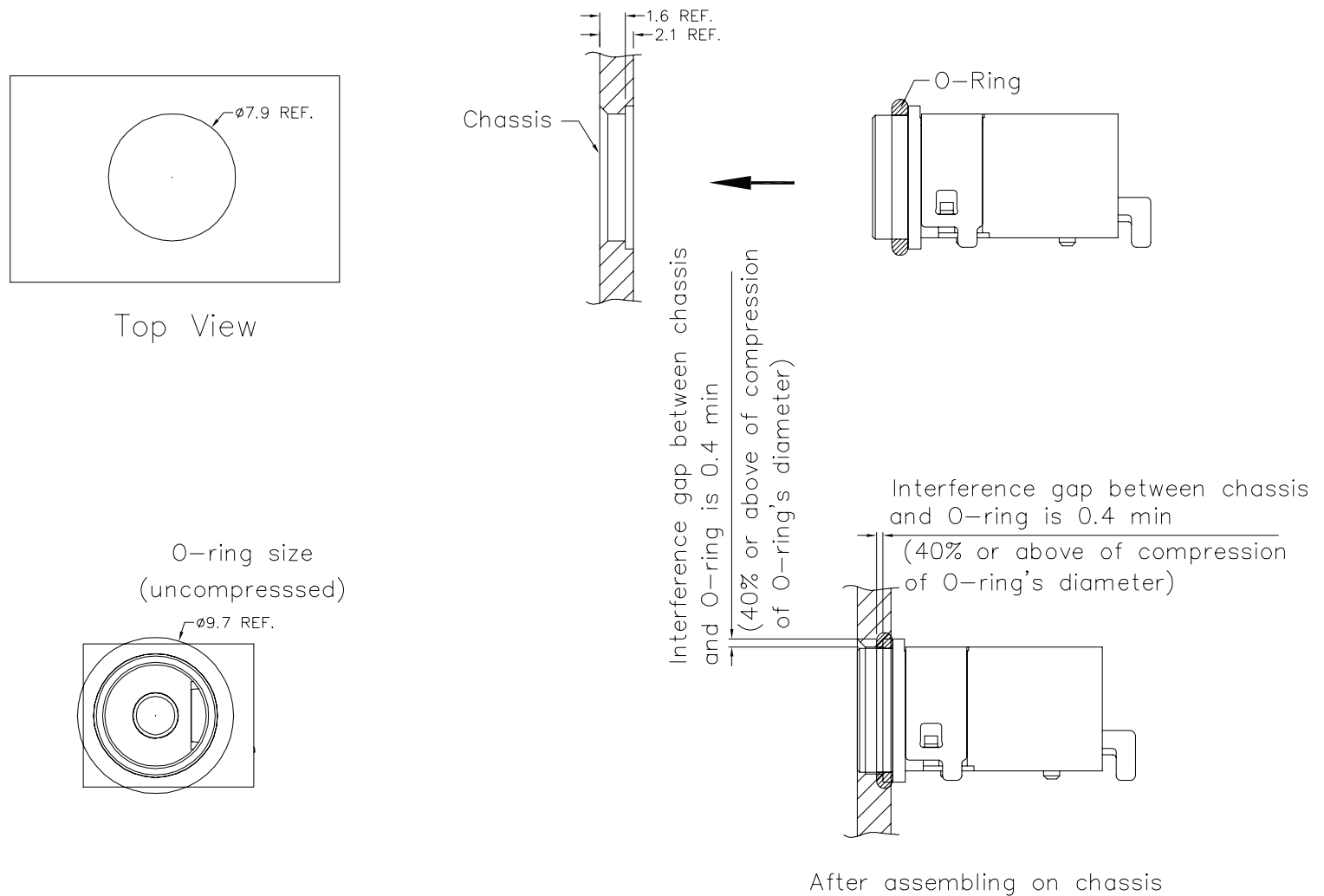
**MATING PLUG**  
 Jack Insertion Depth: 10 mm

|            |                                                                                     |
|------------|-------------------------------------------------------------------------------------|
| SCHEMATIC  |  |
| Model      | PJ-001AH-67                                                                         |
| Center Pin | Ø2.0 mm                                                                             |

**O-ring (P/N: OR-70)**



## ASSEMBLY REFERENCE

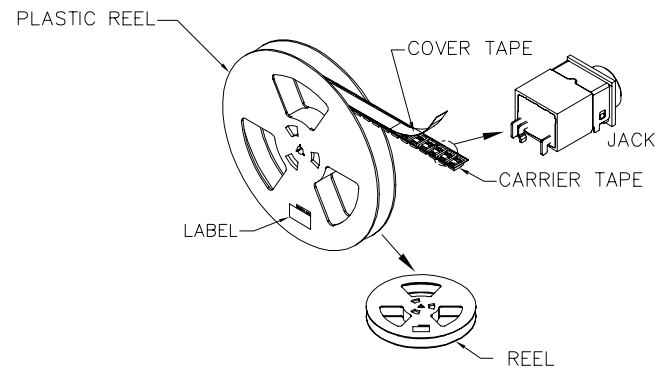
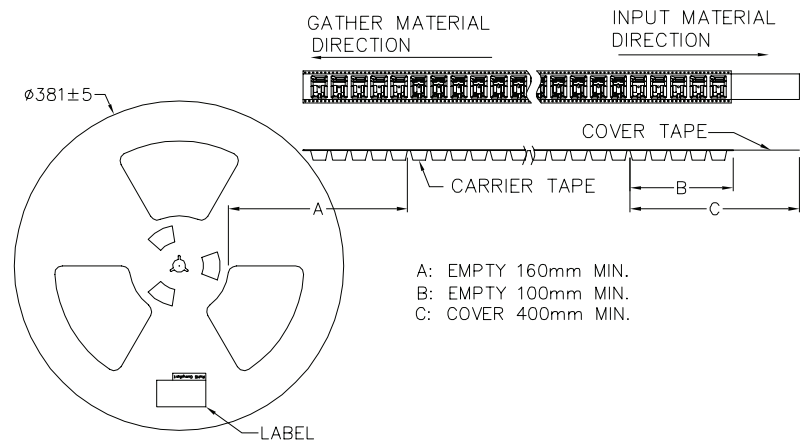
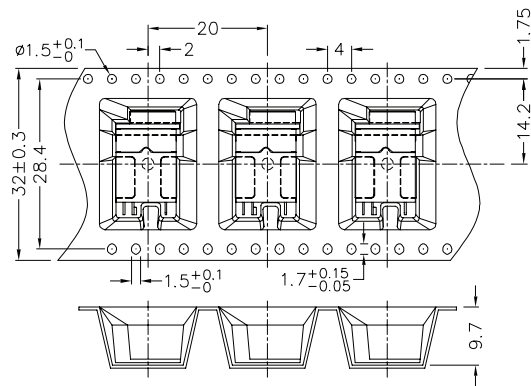


## PACKAGING

units: mm

Reel Size: Ø381 mm

Reel QTY: 450 pcs per reel



## REVISION HISTORY

| rev. | description      | date       |
|------|------------------|------------|
| 1.0  | initial release  | 01/29/2019 |
| 1.01 | brand update     | 10/30/2019 |
| 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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