

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

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

**SPECIFICATIONS**

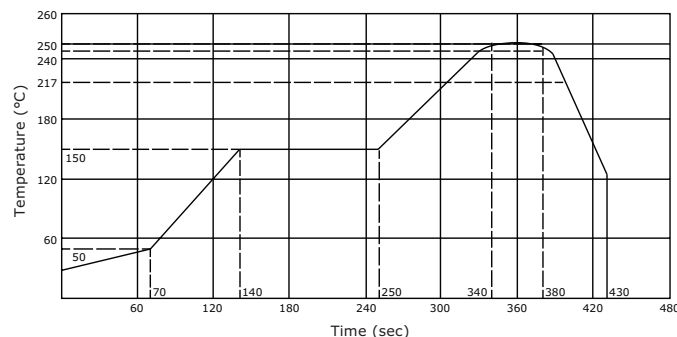
| parameter                       | conditions/description                                                   | min | typ   | max      | units    |
|---------------------------------|--------------------------------------------------------------------------|-----|-------|----------|----------|
| rated 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**

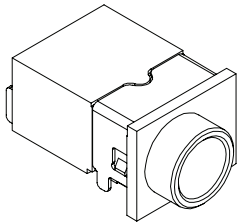
| parameter                      | conditions/description                                                                                   | min | typ | max | units |
|--------------------------------|----------------------------------------------------------------------------------------------------------|-----|-----|-----|-------|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

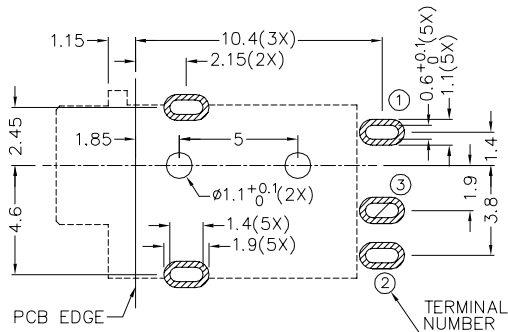
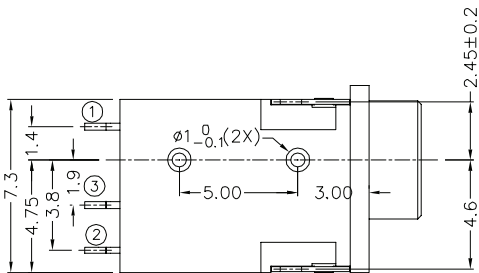
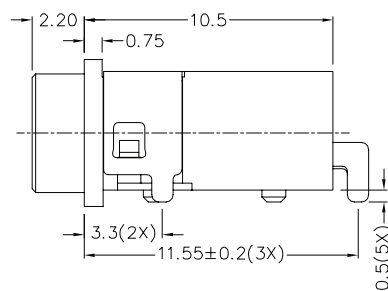
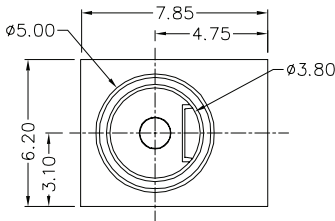
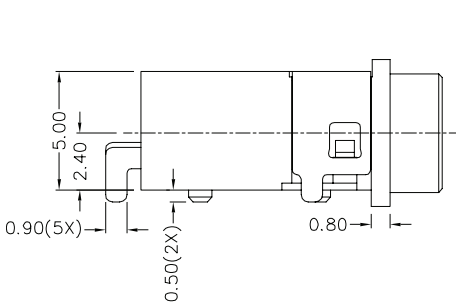


MECHANICAL DRAWING

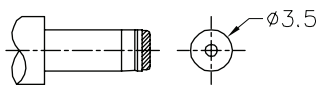
units: mm  
tolerance:  
X.X ±0.2 mm  
X.XX ±0.10 mm  
X.XXX ±0.050 mm  
PCB: ±0.05 mm



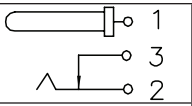
|                | MATERIAL     | PLATING    |
|----------------|--------------|------------|
| terminal 1     | brass        | gold flash |
| terminal 2     | copper alloy | gold flash |
| terminal 3     | brass        | gold flash |
| shield         | brass        | nickel     |
| insulator      |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



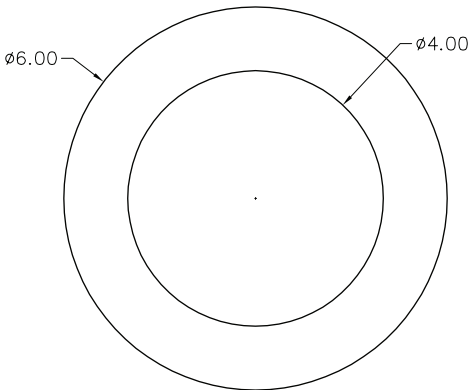
Recommended PCB Layout  
Top View



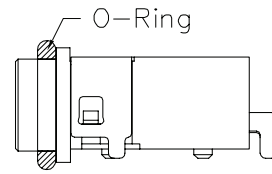
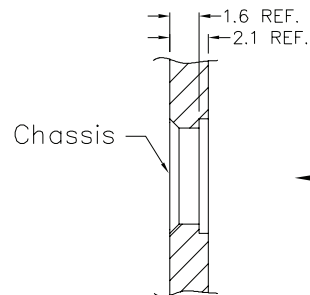
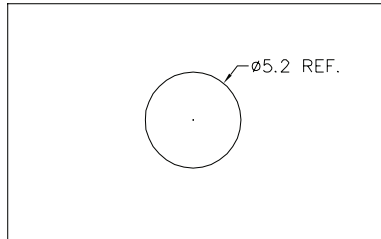
MATING PLUG  
Jack Insertion Depth: 8.5 mm

|            |                                                                                     |
|------------|-------------------------------------------------------------------------------------|
| SCHEMATIC  |  |
| Model      | PJ-001DH-67                                                                         |
| Center Pin | Ø1.3 mm                                                                             |

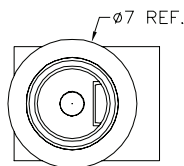
O-ring (P/N: OR-20)



## ASSEMBLY REFERENCE



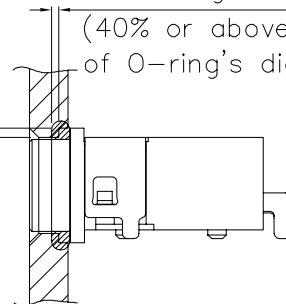
O-ring size  
(uncompressed)



Interference gap between chassis  
and O-ring is 0.4 min  
(40% or above of compression  
of O-ring's diameter)

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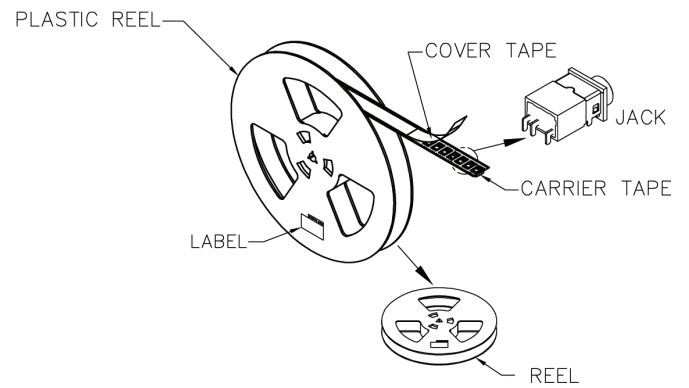
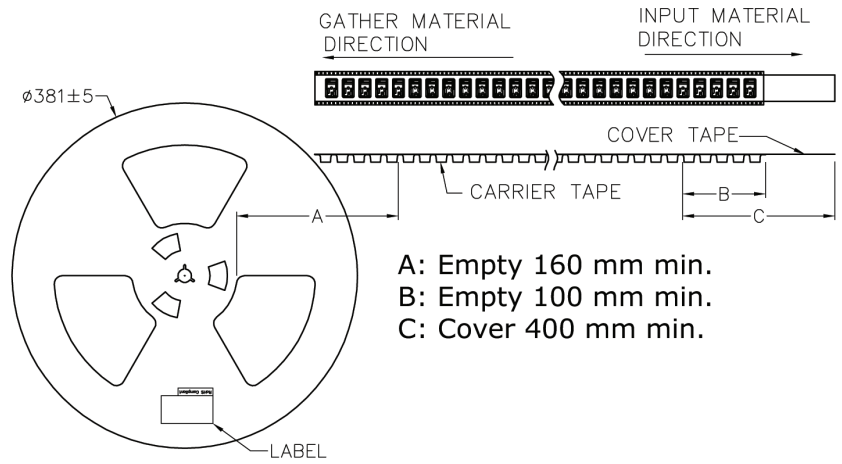
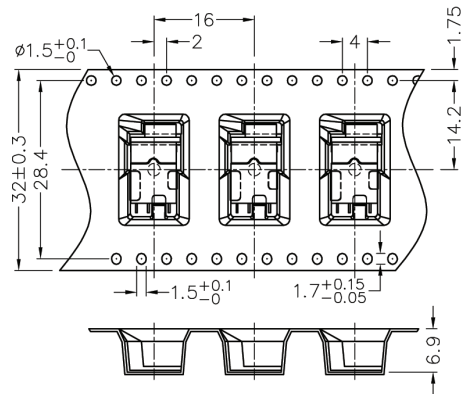
After assembling on chassis

## PACKAGING

units: mm

Reel Size:  $\varnothing 381$  mm

Reel QTY: 800 pcs per reel



## REVISION HISTORY

| 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 |
| 1.03 | logo, datasheet style update      | 08/05/2022 |
| 1.04 | CUI Devices rebranded to Same Sky | 09/12/2024 |

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



Same Sky offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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