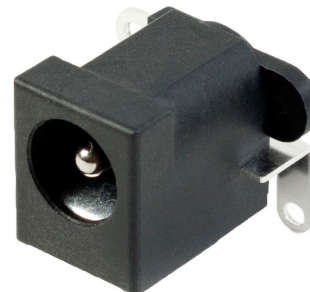


**MODEL:** PJ-070AH-SMT-TR | **DESCRIPTION:** DC POWER JACK**FEATURES**

- 2.0mm center pin
- 5.0 A rating
- vertical orientation
- surface mount (SMT)

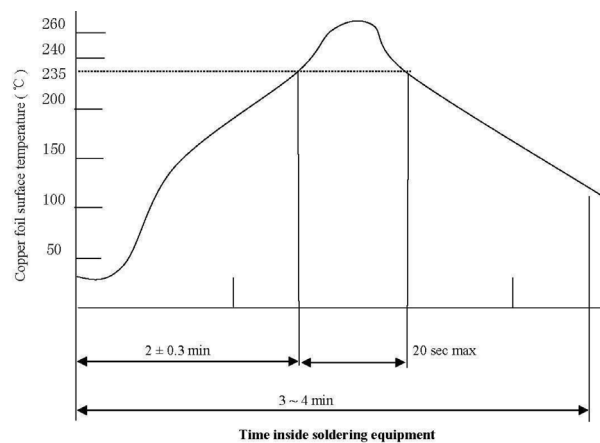
**SPECIFICATIONS**

| parameter                  | conditions/description | min | typ   | max | units  |
|----------------------------|------------------------|-----|-------|-----|--------|
| rated input voltage        |                        |     | 24    |     | Vdc    |
| rated input current        |                        |     |       | 5.0 | A      |
| contact resistance         |                        |     |       | 30  | 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                       |                        |     | 5,000 |     | cycles |
| flammability rating        | UL94V-0                |     |       |     |        |
| RoHS                       | yes                    |     |       |     |        |

**SOLDERABILITY**

| parameter                     | conditions/description   | min | typ | max | units |
|-------------------------------|--|-----|-----|-----|-------|
| reel storage                  | ≤30°C, ≤80% humidity   |     |     |     | °C    |
| reflow soldering <sup>1</sup> | see reflow profile   |     | 260 |     | °C    |
| drying conditions             | parts in reel: bake at 40±5°C for 72 hours<br>parts removed from reel: bake at 40±5°C for 10 hours |     |     |     |       |

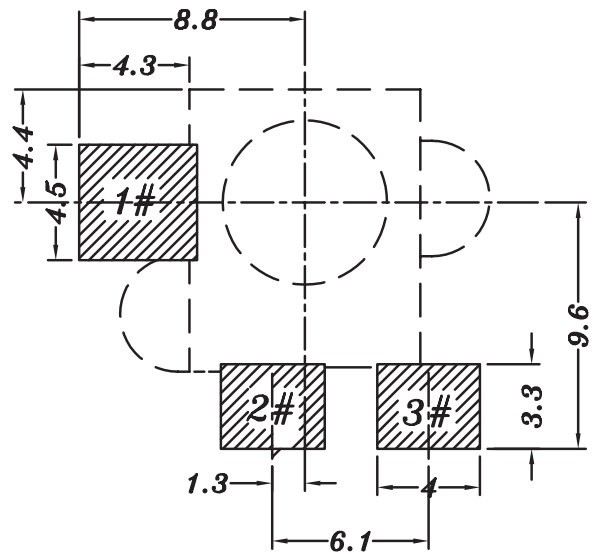
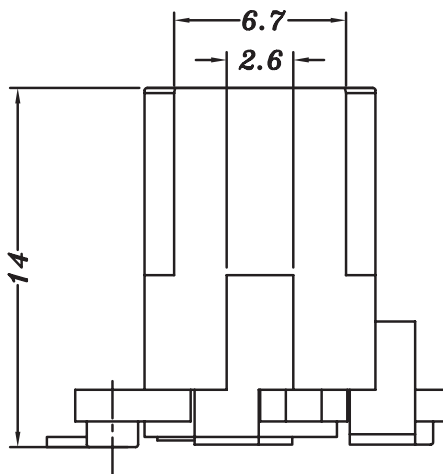
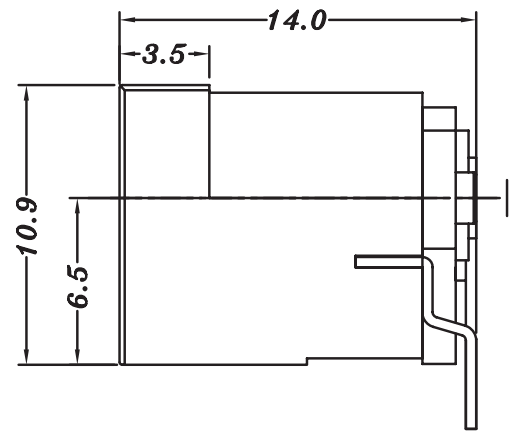
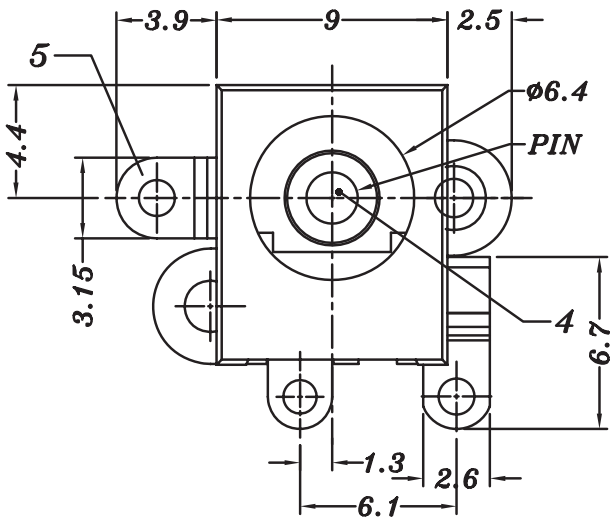
Note: 1. CUI Devices recommends to solder within 72 hours from opening vacuum packaging at a temperature <30°C & relative humidity <80%.



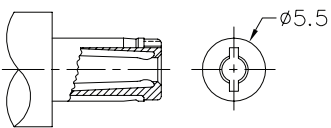
## MECHANICAL DRAWING

units: mm  
 tolerance:  
 0.0 < X ≤ 5.0: ±0.10 mm  
 X > 5.0: ±0.20 mm  
 unless otherwise specified

| DESCRIPTION | MATERIAL       | PLATING/COLOR |
|-------------|----------------|---------------|
| center pin  | brass          | nickel        |
| terminal 1  | brass          | silver        |
| terminal 2  | bronze         | silver        |
| terminal 3  | brass          | silver        |
| housing     | LCP [UL94V-0]  | black         |
| cover       | PA9T [UL94V-0] | black         |



Recommended PCB Layout  
Top View



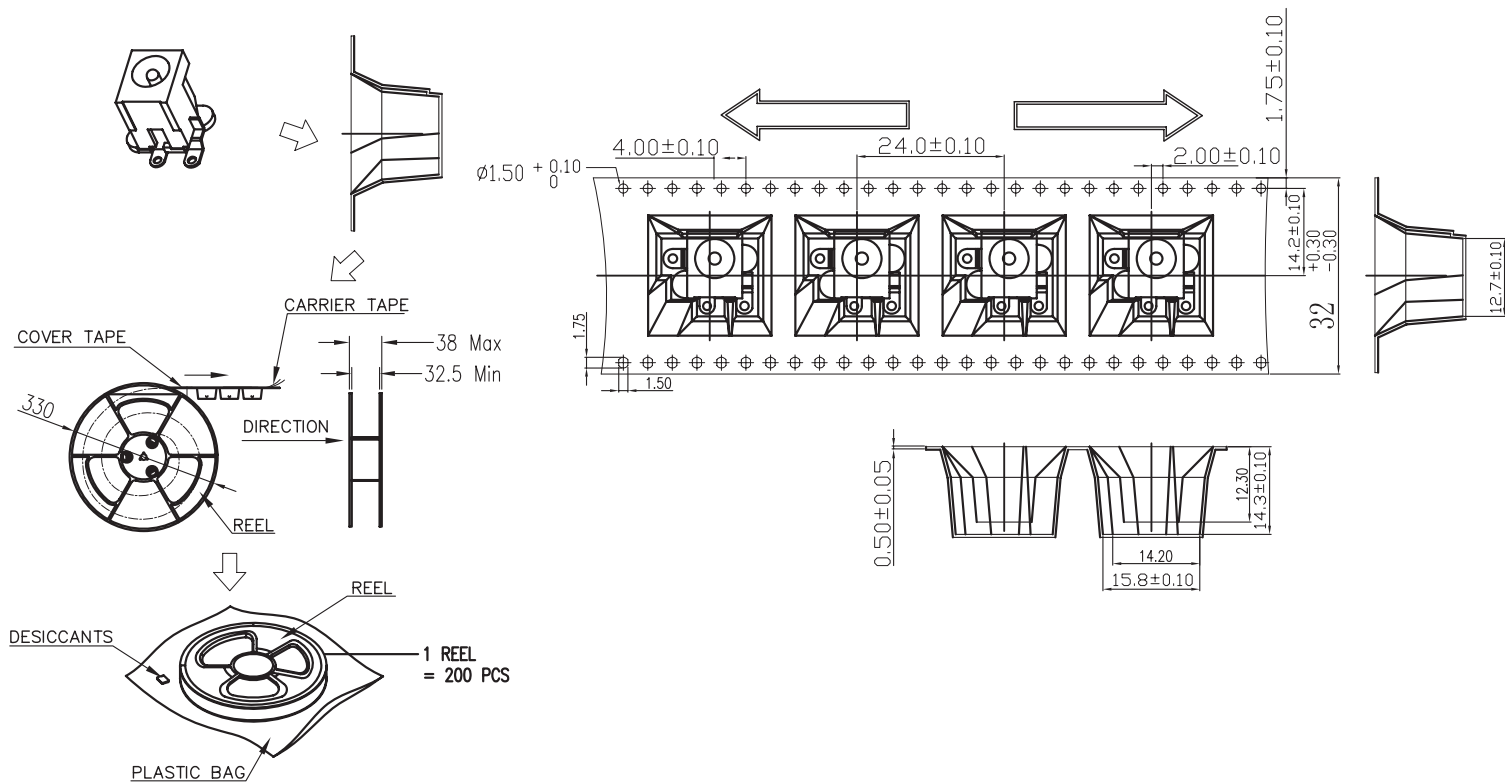
MATING PLUG  
Jack Insertion Depth: 8.3 mm

|            |              |
|------------|--------------|
| SCHEMATIC  |              |
| Model      | PJ-070AH-SMT |
| Center Pin | Ø2.0 mm      |

## PACKAGING

units: mm

Reel Size:  $\varnothing 330$  mm  
 Reel QTY: 200 pcs per reel



## REVISION HISTORY

| rev. | description   | date       |
|------|---|------------|
| 1.0  | initial release   | 03/16/2012 |
| 1.01 | updated features  | 06/15/2012 |
| 1.02 | added TR package option   | 11/07/2012 |
| 1.03 | updated spec  | 08/21/2013 |
| 1.04 | increased voltage rating  | 04/14/2016 |
| 1.05 | added storage and drying conditions, and tape and reel packaging details                      | 10/18/2017 |
| 1.06 | brand update  | 10/30/2019 |
| 1.07 | logo, datasheet style update  | 08/05/2022 |
| 1.08 | product reengineered for improved manufacturability and production yield, see PCN for details | 04/11/2023 |

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



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

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