

**MODEL:** PJ-041-SMT-TR | **DESCRIPTION:** DC POWER JACK**FEATURES**

- 0.65 mm center pin
- 1.0 A rating
- right angle orientation
- surface mount (SMT)

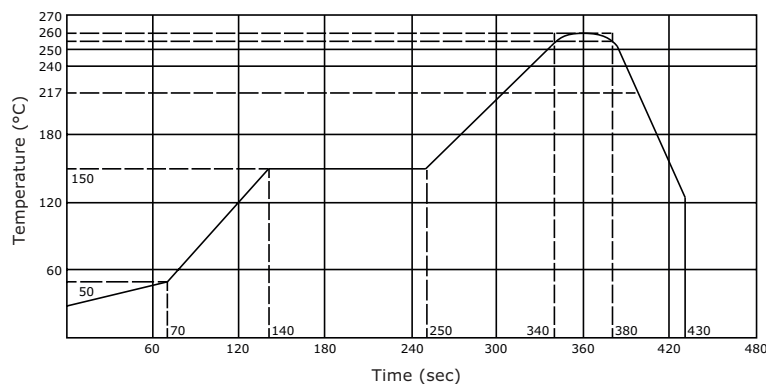
**SPECIFICATIONS**

| parameter                  | conditions/description | min | typ   | max | units  |
|----------------------------|------------------------|-----|-------|-----|--------|
| rated input voltage        |                        |     | 24    |     | Vdc    |
| rated input current        |                        |     |       | 1.0 | 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**

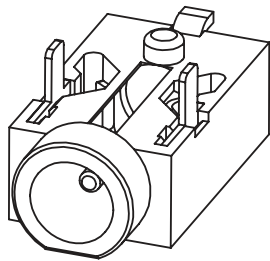
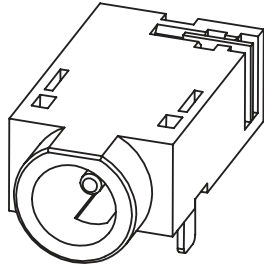
| parameter                      | conditions/description   | min | typ | max | units |
|--------------------------------|--|-----|-----|-----|-------|
| reel storage                   | at relative humidity <80%  |     |     | 40  | °C    |
| reflow soldering <sup>1</sup>  | see reflow profile   | 255 | 260 | 265 | °C    |
| drying conditions <sup>2</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: 1. CUI Devices recommends to solder within 72 hours from opening vacuum packaging at a temperature <30°C & relative humidity <80%.  
2. When exceeding floor life by >72 hours.

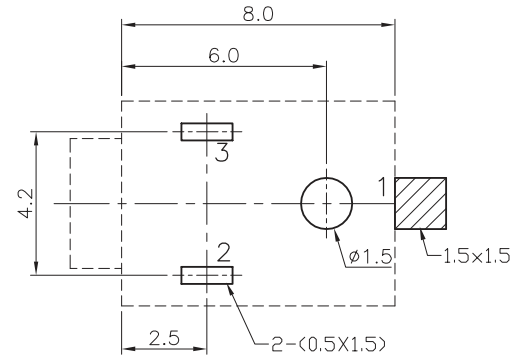
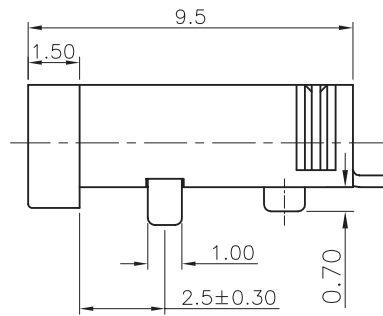
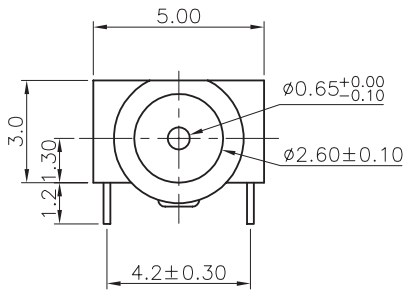


## MECHANICAL DRAWING

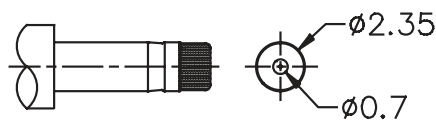
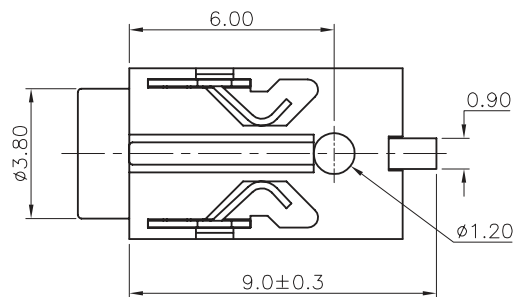
units: mm  
 tolerance:  
 X, ±0.50 mm  
 X.X ±0.30 mm  
 X.XX ±0.20 mm  
 X.XXX ±0.10 mm  
 PCB: ±0.05 mm  
 unless otherwise specified



| DESCRIPTION | MATERIAL        | PLATING/COLOR |
|-------------|-----------------|---------------|
| center pin  | bronze          | silver        |
| terminal 1  | bronze          | silver        |
| terminal 2  | SUS301 t=0.20   | gold          |
| terminal 3  | SUS301 t=0.20   | gold          |
| housing     | PA10T (UL94V-0) | black         |



Recommended PCB Layout  
Top View



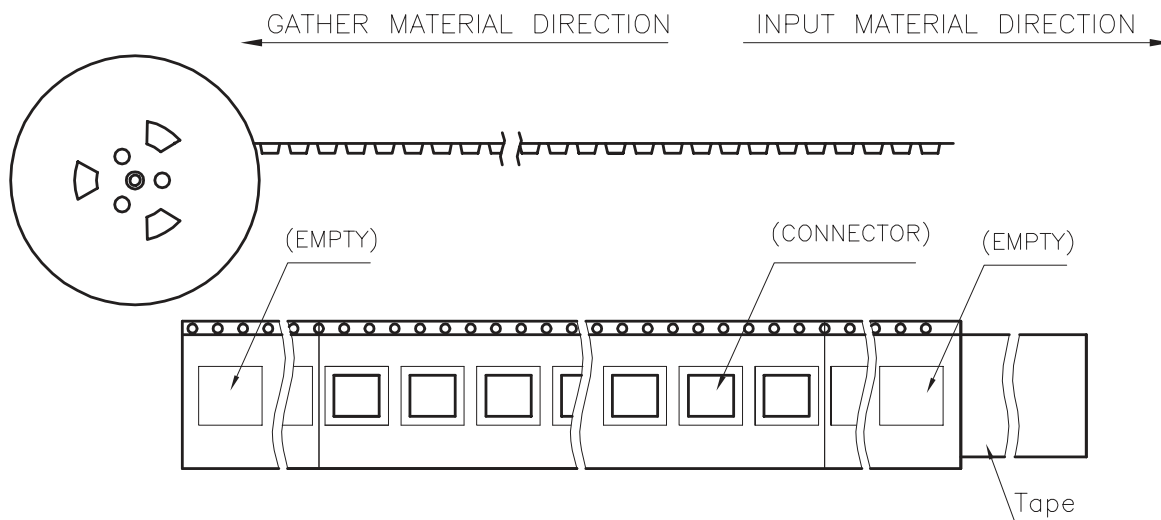
MATING PLUG  
Jack Insertion Depth: 7.55 mm

|            |            |
|------------|------------|
| SCHEMATIC  |            |
| Model      | PJ-041-SMT |
| Center Pin | ∅0.65 mm   |

## PACKAGING

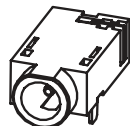
units: mm

Reel Size:  $\varnothing 330$  mm  
Reel QTY: 1,000 pcs per reel



DIMENSIONS:  
33\*3.6

1000pcs/reel



## REVISION HISTORY

| rev. | description   | date        |
|------|---|-------------|
| 1.0  | initial release   | 02/05/2007  |
| 1.01 | added TR package option   | 06/19/2013  |
| 1.02 | applied new spec template   | 08/29/2013  |
| 1.03 | increased voltage rating  | 04/14/2016  |
| 1.04 | added storage and drying conditions, and tape and reel packaging details                      | 08/29/2017  |
| 1.05 | brand update  | 10/21/2019  |
| 1.06 | logo, datasheet style update  | 08/05/2022  |
| 1.07 | product reengineered for improved manufacturability and production yield, see PCN for details | 12/12//2022 |

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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