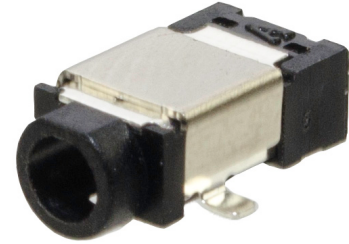


**MODEL:** PJ-038-SMT-TR | **DESCRIPTION:** DC POWER JACK

**FEATURES**

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

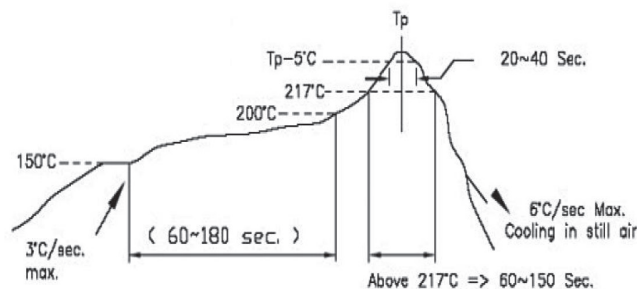

**SPECIFICATIONS**

| parameter                  | conditions/description                                                   | min | typ   | max      | units    |
|----------------------------|--------------------------------------------------------------------------|-----|-------|----------|----------|
| rated input voltage        |                                                                          |     | 24    |          | Vdc      |
| rated input current        |                                                                          |     |       | 1.0      | A        |
| contact resistance         | 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 |                                                                          | 0.5 |       | 2        | 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                   | 10~30°C, <70% humidity                                                                         |     |     |     | °C    |
| reflow soldering <sup>1</sup>  | see reflow profile                                                                             | 255 | 260 |     | °C    |
| drying conditions <sup>2</sup> | parts in reel: bake at 110°C for 4 hours<br>parts removed from reel: bake at 110°C for 4 hours |     |     |     |       |

Note: 1. CUI Devices recommends to solder within 72 hours from opening vacuum packaging at a temperature <30°C & relative humidity <60%.  
2. When exceeding floor life by >240 hours.

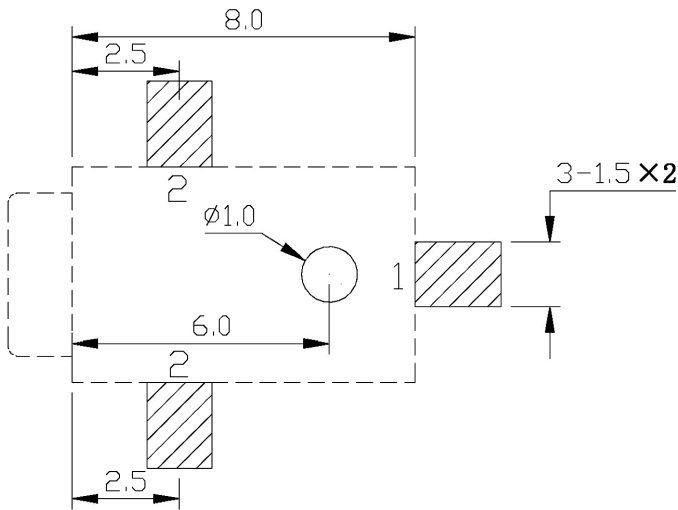
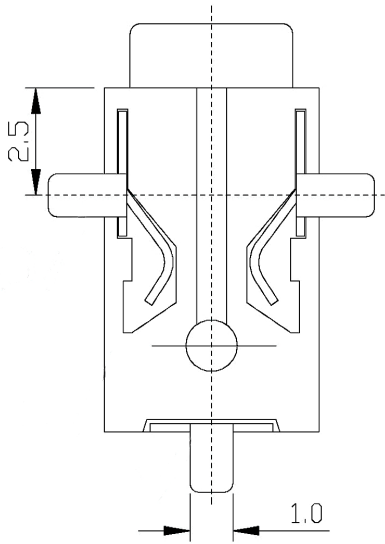
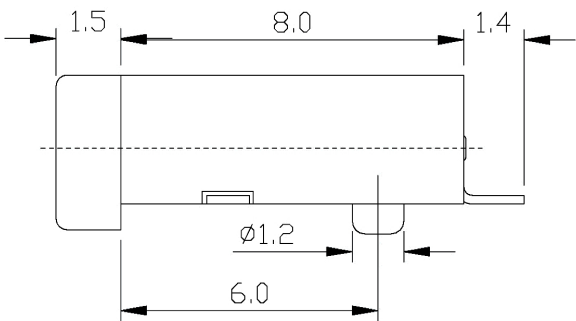
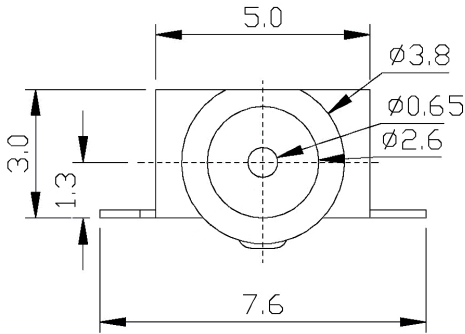


\* Time 25°C to Peak Temp. ----- 8 Minutes Max.  
\* Time within 5°C of Actual Peak Temp. --- 20~40 Seconds

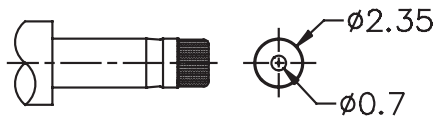
MECHANICAL DRAWING

units: mm  
tolerance:  
X, ±0.15 mm  
X.X ±0.10 mm  
X.XX ±0.05 mm  
PCB: ±0.05 mm  
unless otherwise specified

| DESCRIPTION | MATERIAL               | PLATING/COLOR |
|-------------|------------------------|---------------|
| center pin  | brass                  | silver        |
| terminal 1  | brass t=0.25           | silver        |
| terminal 2  | phosphor bronze t=0.25 | silver        |
| shield      | phosphor bronze t=0.25 | silver        |
| housing     | PPA (UL94V-0)          | black         |

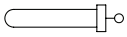


Recommended PCB Layout  
Top View



MATING PLUG

Jack Insertion Depth: 7.0 mm

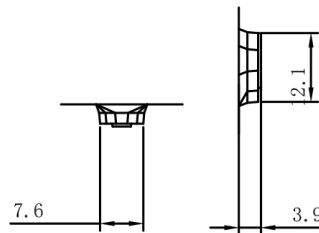
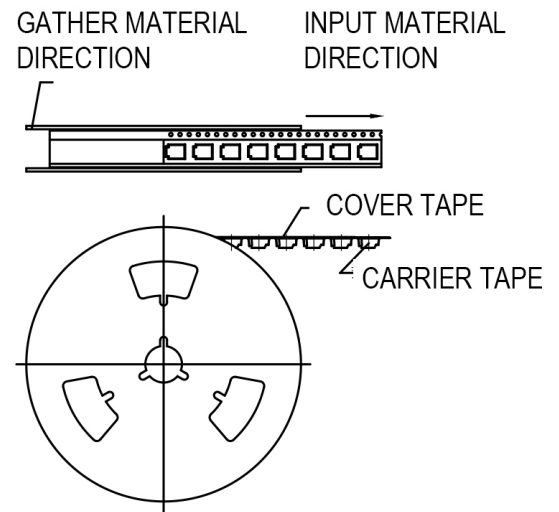
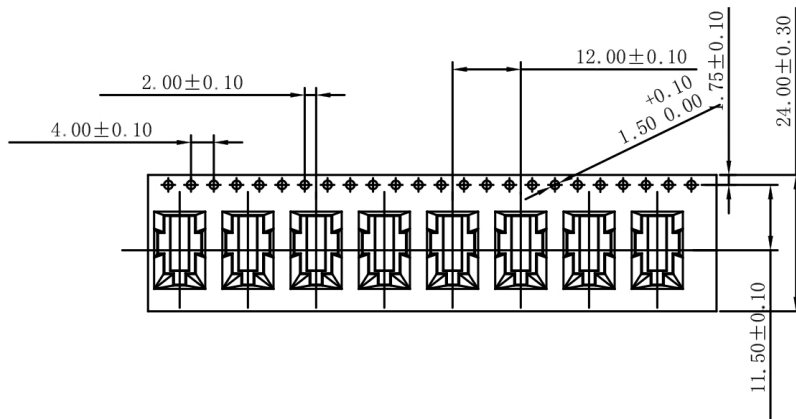
|            |                                                                                                                                                                                |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SCHEMATIC  |  1<br> 2 |
| Model      | PJ-038-SMT-TR                                                                                                                                                                  |
| Center Pin | $\phi 0.65$ mm                                                                                                                                                                 |

## PACKAGING

units: mm

Reel Size: Ø380 mm

Reel QTY: 1,500 pcs per reel



## REVISION HISTORY

| rev. | description                                                                                   | date       |
|------|-----------------------------------------------------------------------------------------------|------------|
| 1.0  | initial release                                                                               | 02/02/2007 |
| 1.01 | added TR package option and jack insertion depth                                              | 11/07/2012 |
| 1.02 | applied new spec template                                                                     | 08/28/2013 |
| 1.03 | increased voltage rating                                                                      | 04/14/2016 |
| 1.04 | changed housing, added storage and drying conditions, and tape and reel packaging details     | 01/03/2018 |
| 1.05 | brand update                                                                                  | 10/21/2019 |
| 1.06 | changed shield material to be stainless steel                                                 | 04/02/2020 |
| 1.07 | logo, datasheet style update                                                                  | 08/05/2022 |
| 1.08 | product reengineered for improved manufacturability and production yield, see PCN for details | 01/10/2023 |

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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