

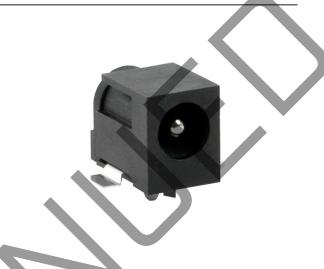
date 08/05/2022

page 1 of 4

# MODEL: PJ-037AH-SMT-TR | DESCRIPTION: DC POWER JACK

#### **FEATURES**

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





#### **SPECIFICATIONS**

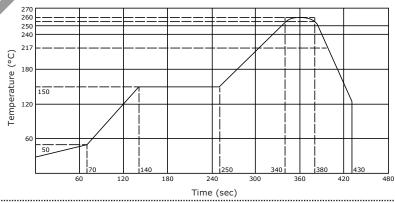
| parameter                       | conditions/description   | min | typ   | max      | units  |
|---------------------------------|--|-----|-------|----------|--------|
| rated input voltage             |  |     | 24    |          | Vdc    |
| rated input current             |  |     |       | 5.0      | А      |
| contact resistance <sup>1</sup> | between terminal and mating plug<br>between terminal in a closed circuit |     |       | 50<br>30 | mΩ     |
| insulation resistance           | at 500 Vdc   | 100 |       |          | МΩ     |
| 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  |     |       |          |        |

## **SOLDERABILITY**

| parameter                      | conditions/description   | min | typ | max | units |
|--------------------------------|--|-----|-----|-----|-------|
| reel storage                   | at relative humidity <80%  |     |     | 40  | °C    |
| reflow soldering <sup>3</sup>  | see reflow profile   | 255 | 260 | 265 | °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:

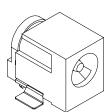
It is recommended to reflow solder within 72 hours from opening vacuum packaging at a temperature <30°C & relative humidity <60%. When exceeding floor life by >72 hours.



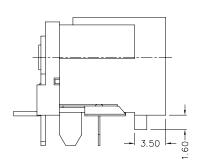
When measured at a current of less than 100 mA/1 kHz
All specifications measured at 10-35°C, humidity at 45-85%, under standard atmospheric pressure, unless otherwise noted.

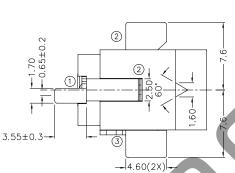
## **MECHANICAL DRAWING**

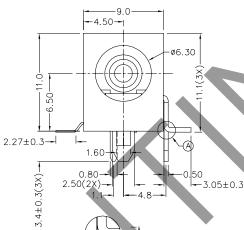
units: mm[inches] tolerance: X.X ±0.2mm X.XX ±0.1mm X.XXX ±0.05mm PCB: ±0.05 mm

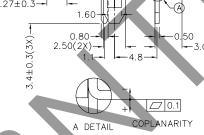


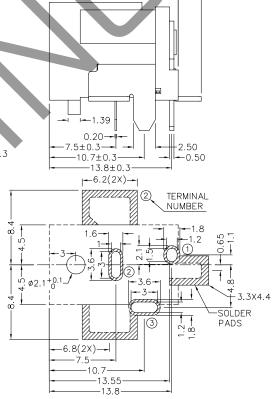
|            | MATERIAL     | PLATING |
|------------|--------------|---------|
| center pin | copper       | nickel  |
| terminal 1 | brass        | silver  |
| terminal 2 | copper alloy | silver  |
| terminal 3 | brass        | silver  |
| plastic    | PA10T        |         |



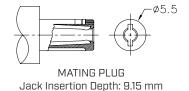








Recommended PCB Layout Top View

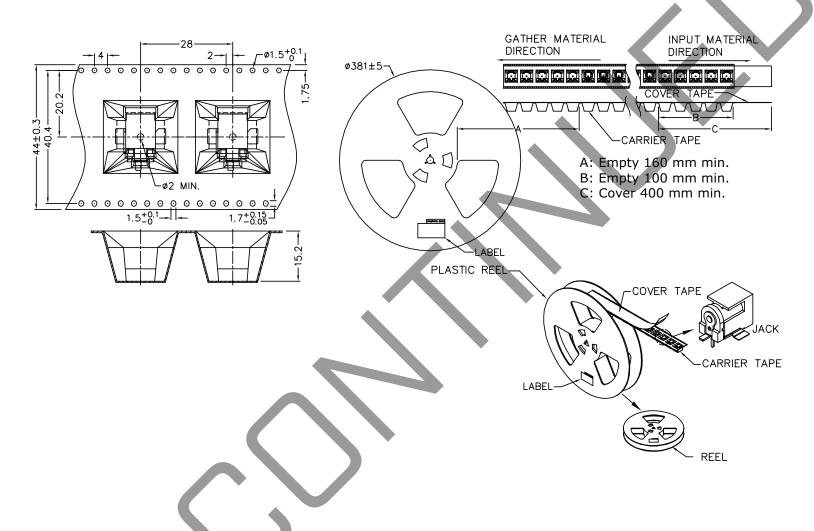


|  | SCHEMATIC  |              |
|--|------------|--------------|
|  |            | 3            |
|  |            | <u>^</u> ∞2  |
|  | Model      | PJ-037AH-SMT |
|  | Center Pin | Ø2.0 mm      |

#### **PACKAGING**

units: mm

Reel Size: Ø381 mm Reel QTY: 200 pcs per reel



#### **REVISION HISTORY**

CUI DEVICES | MODEL: PJ-037AH-SMT-TR | DESCRIPTION: DC POWER JACK

| rev. | description   | date       |
|------|---|------------|
| 1.0  | initial release   | 02/02/2007 |
| 1.01 | added TR package option   | 11/07/2012 |
| 1.02 | applied new spec template, updated center pin material                      | 08/21/2013 |
| 1.03 | increased voltage rating  | 04/14/2016 |
| 1.04 | added storage and drying conditions, and tape and reel<br>packaging details | 10/17/2017 |
| 1.05 | brand update  | 10/29/2019 |
| 1.06 | logo, datasheet style update  | 08/05/2022 |

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





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