

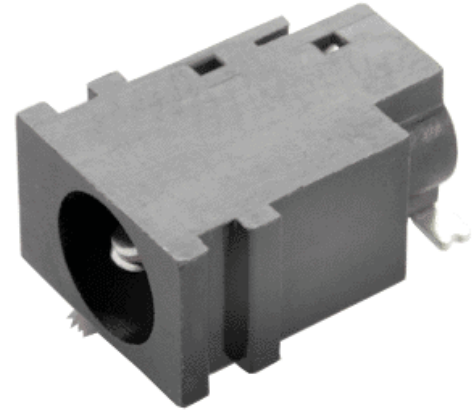

CUI INC[®]
date 08/22/2013

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MODEL: PJ1-021-SMT | **DESCRIPTION:** DC POWER JACK

FEATURES

- 1.65mm center pin
- 5 A rating
- right angle orientation
- surface mount (SMT)
- internal switch

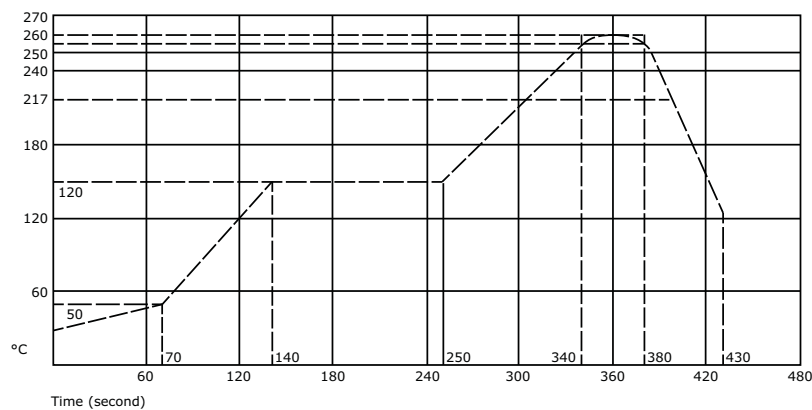

SPECIFICATIONS

| parameter | conditions/description | min | typ | max | units |
|---------------------------------|--|-----|-------|----------|----------|
| rated input voltage | | | 16 | | Vdc |
| rated input current | | | | 5 | A |
| contact resistance ¹ | between terminal and mating plug between terminal in a closed circuit | | | 50 30 | mΩ mΩ |
| insulation resistance | at 500 Vdc | 100 | | | MΩ |
| voltage withstand | at 50/60Hz for 1 minute | | | 500 | Vac |
| insertion/withdrawal force | | 0.3 | | 3 | kg |
| terminal strength | any direction for 10 seconds | | | 500 | g |
| operating temperature | | -25 | | 85 | °C |
| life | | | 5,000 | | cycles |
| flammability rating | UL94V-0 | | | | |
| RoHS | 2011/65/EU | | | | |

Notes: 1. When measured at a current of less than 100 mA/1 kHz
2. Add suffix "-TR" to the model number for tape & reel packaging

SOLDERABILITY

| parameter | conditions/description | min | typ | max | units |
|------------------|------------------------|-----|-----|-----|-------|
| reflow soldering | see reflow profile | 255 | 260 | 265 | °C |



MECHANICAL DRAWING

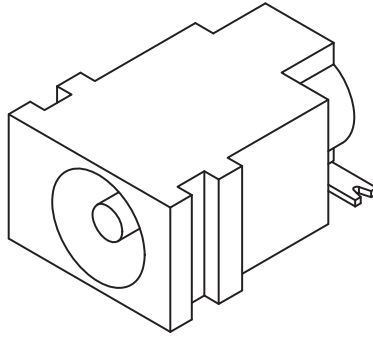
units: mm[inches]

tolerance:

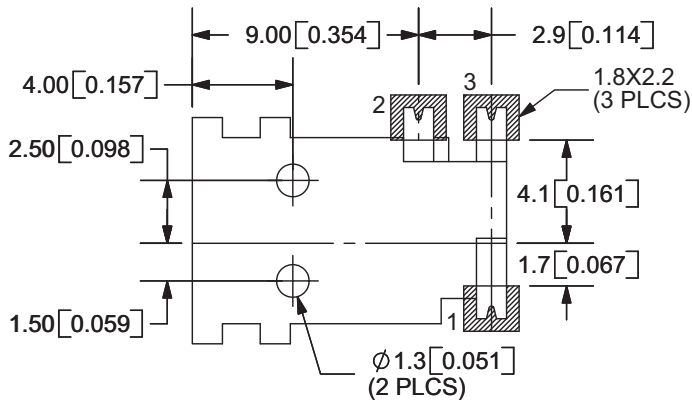
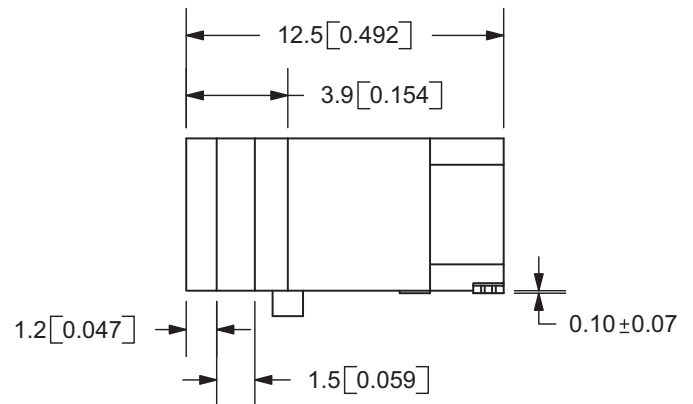
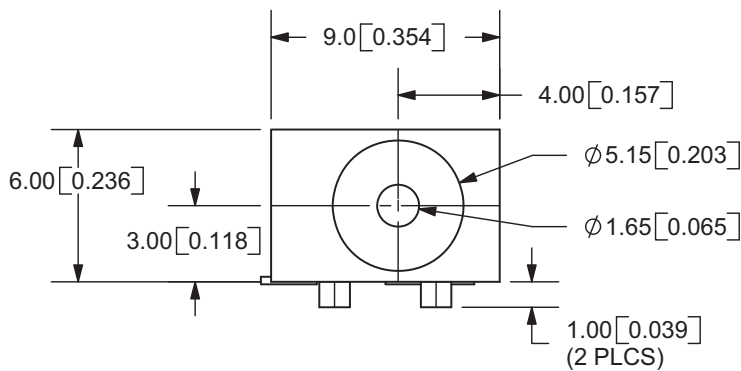
X.X ± 0.2 mm

X.XX ± 0.1 mm

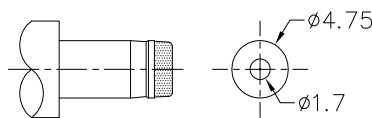
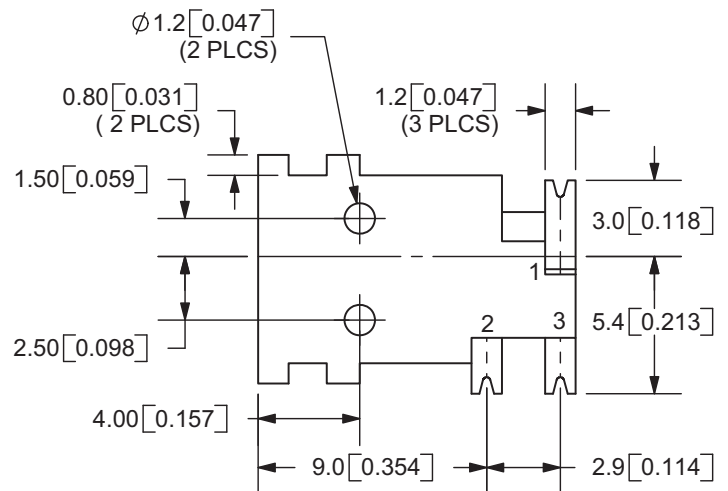
X.XXX ± 0.05 mm



| | MATERIAL | PLATING |
|------------|--------------|---------------|
| center pin | brass | silver plated |
| terminal 1 | brass | silver plated |
| terminal 2 | copper alloy | silver plated |
| terminal 3 | brass | silver plated |
| plastic | PA6T | |



RECOMMENDED
PCB LAYOUT
(Top View)



MATING PLUG
Jack Insertion Depth: 8.0 mm

| | |
|------------|-------------|
| SCHEMATIC | |
| Model | PJ1-021-SMT |
| Center Pin | Ø1.65 mm |

REVISION HISTORY

| rev. | description | date |
|------|--|------------|
| 1.0 | initial release | 10/20/2005 |
| 1.01 | changed housing material to PA6T from PBT | 01/10/2006 |
| 1.02 | added TR package option and jack insertion depth | 11/07/2012 |
| 1.03 | applied new spec template | 08/22/2013 |

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



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

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