

**MODEL:** PJ-042 | **DESCRIPTION:** DC POWER JACK

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**FEATURES**

- 1.65 mm center pin
- 2.5 A rating
- right angle orientation
- through hole with panel slots
- kinked pins

**SPECIFICATIONS**

| parameter                       | conditions/description                                                   | min | typ   | max      | units    |
|---------------------------------|--------------------------------------------------------------------------|-----|-------|----------|----------|
| rated input voltage             |                                                                          |     | 24    |          | Vdc      |
| rated input current             |                                                                          |     |       | 2.5      | A        |
| contact resistance <sup>1</sup> | 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               | 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                                                               |     |       |          |          |

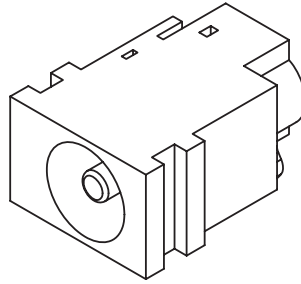
Note: 1. When measured at a current of less than 100 mA/1 kHz

**SOLDERABILITY**

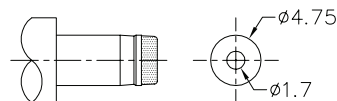
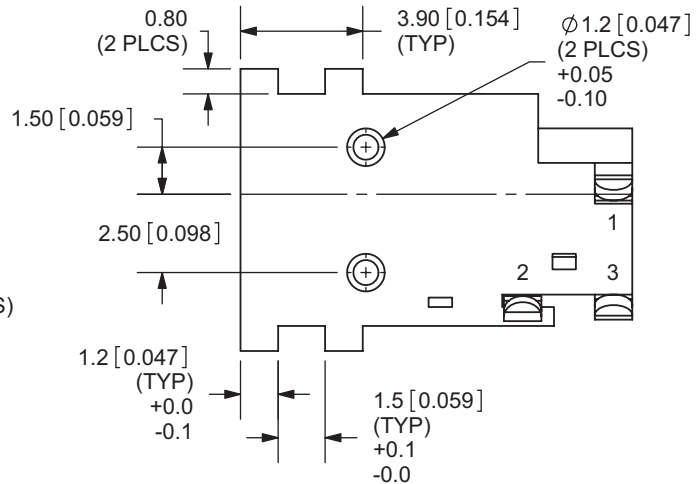
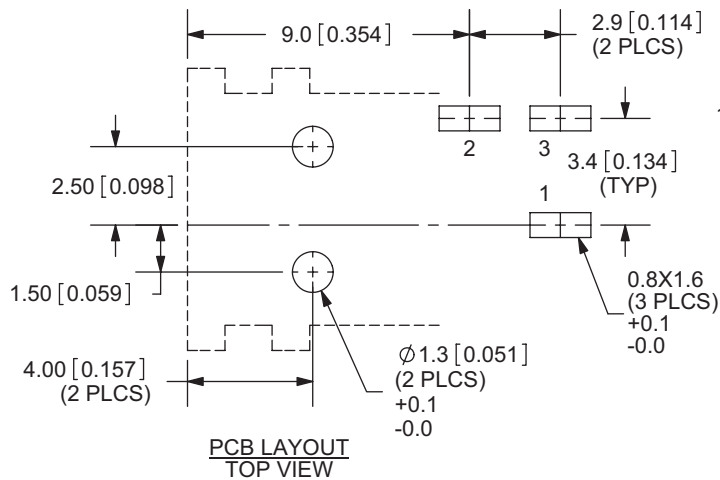
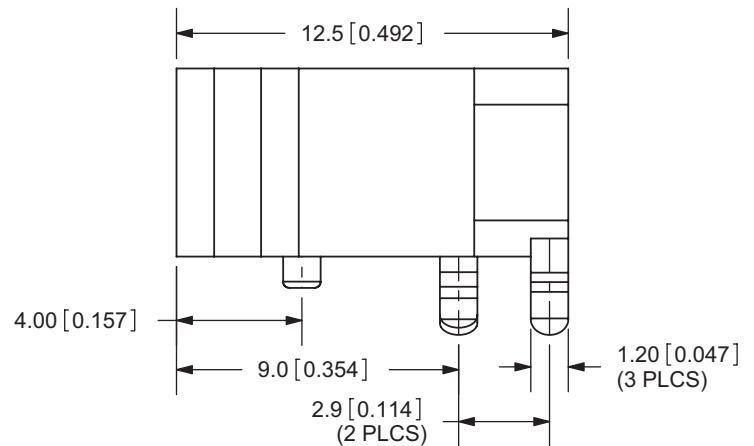
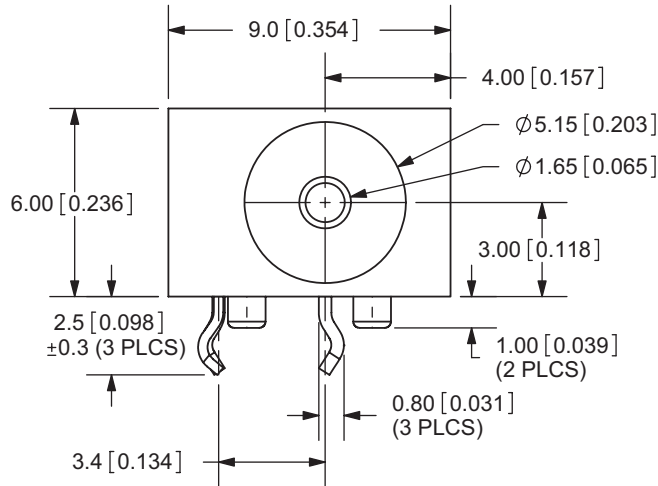
| parameter      | conditions/description                  | min | typ | max | units |
|----------------|-----------------------------------------|-----|-----|-----|-------|
| wave soldering | dipped in solder pot for 5 ±0.5 seconds | 255 | 260 | 265 | °C    |

## MECHANICAL DRAWING

units: mm[inches]  
 tolerance:  
 X.X  $\pm 0.2$ mm  
 X.XX  $\pm 0.1$ mm  
 X.XXX  $\pm 0.05$ mm



|            | MATERIAL     | PLATING |
|------------|--------------|---------|
| center pin | brass        | tin     |
| terminal 1 | brass        | tin     |
| terminal 2 | copper alloy | tin     |
| terminal 3 | brass        | tin     |
| plastic    | PA66         |         |



MATING PLUG  
 Jack Insertion Depth: 8.00 mm

|            |          |
|------------|----------|
| SCHEMATIC  |          |
| Model      | PJ-042   |
| Center Pin | Ø1.65 mm |

Note: 1. All specifications measured at 10~35°C, humidity at 45~85%, under standard atmospheric pressure, unless otherwise noted.

## REVISION HISTORY

| rev. | description               | date       |
|------|---------------------------|------------|
| 1.0  | initial release           | 07/30/2007 |
| 1.01 | applied new spec template | 01/14/2015 |
| 1.02 | increased voltage rating  | 04/14/2016 |

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



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