

**MODEL:** PJ-013D | **DESCRIPTION:** DC POWER JACK

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**FEATURES**

- 1.3 mm center pin
- 3.5 A rating
- right angle orientation
- through hole mount
- kinked pins

**SPECIFICATIONS**

| parameter                       | conditions/description               | min | typ   | max | units  |
|---------------------------------|--------------------------------------|-----|-------|-----|--------|
| rated input voltage             |                                      |     | 24    |     | Vdc    |
| rated input current             |                                      |     |       | 3.5 | A      |
| contact resistance <sup>1</sup> | between terminal and mating plug     |     |       | 50  | mΩ     |
|                                 | between terminal in a closed circuit |     |       | 30  | 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

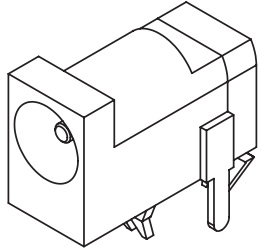
units: mm[inches]

tolerance:

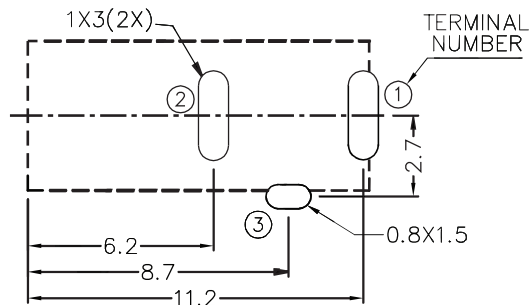
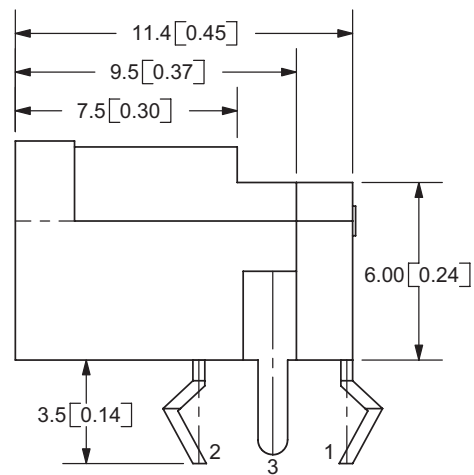
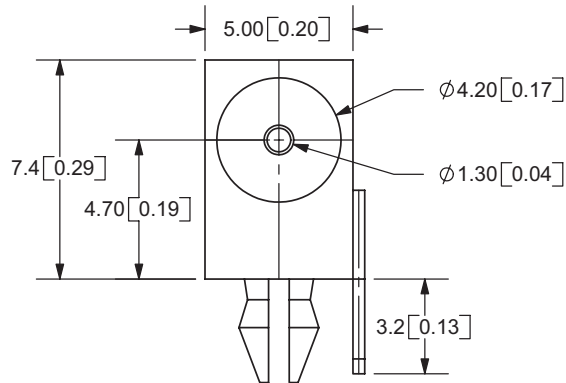
X.X  $\pm 0.2$ mm

X.XX  $\pm 0.1$ mm

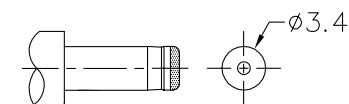
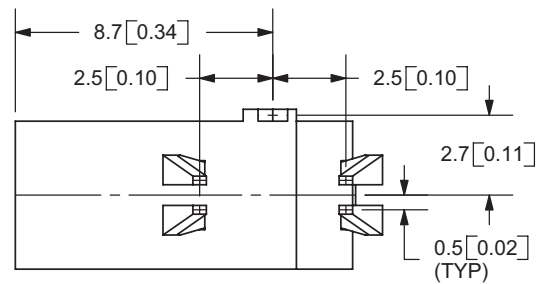
X.XXX  $\pm 0.05$ mm



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



RECOMMENDED PCB LAYOUT  
(TOP VIEW)



MATING PLUG  
Jack Insertion Depth: 6.6 mm

|            |         |
|------------|---------|
| SCHEMATIC  |         |
| Model      | PJ-013D |
| Center Pin | Ø1.3 mm |

## REVISION HISTORY

| rev. | description                                                  | date       |
|------|--------------------------------------------------------------|------------|
| 1.0  | initial release                                              | 11/22/2005 |
| 1.01 | applied new spec template, updated PCB layout recommendation | 01/23/2015 |
| 1.02 | increased voltage rating                                     | 05/06/2016 |

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



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