

**MODEL:** PJ-029CH | **DESCRIPTION:** DC POWER JACK**FEATURES**

- 1.0 mm center pin
- 3.5 A rating
- right angle orientation
- through hole mount
- open frame

**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                            | yes                                  |     |       |     |        |

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

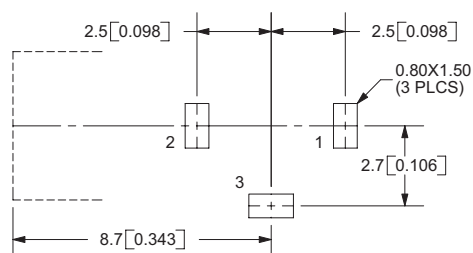
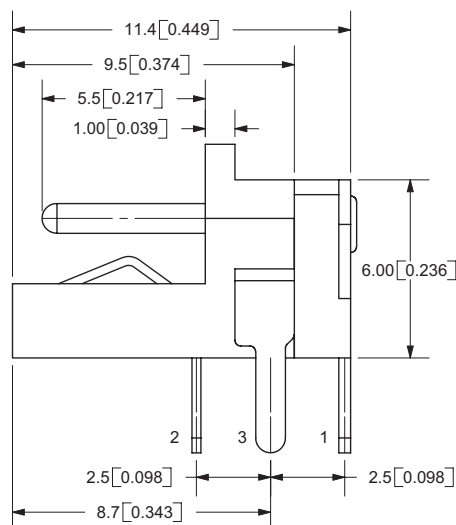
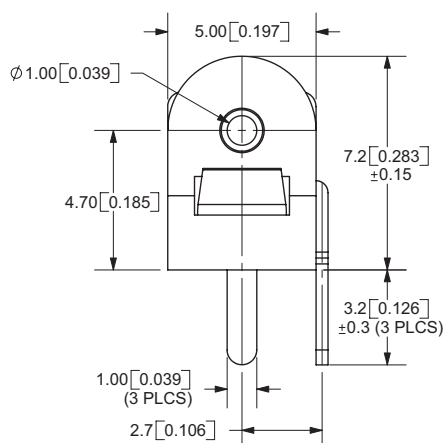
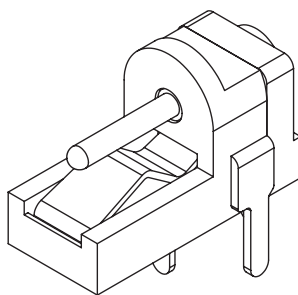
**SOLDERABILITY**

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

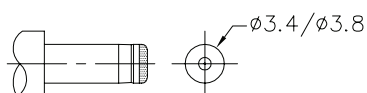
## MECHANICAL DRAWING

units: mm[inches]

tolerance:

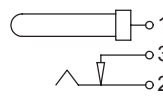
X.X  $\pm 0.2$ mmX.XX  $\pm 0.1$ mmX.XXX  $\pm 0.05$ mm

PCB LAYOUT  
TOP VIEW



MATING PLUG  
Jack Insertion Depth: 6.5 mm

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

|            |                                                                                       |
|------------|---------------------------------------------------------------------------------------|
| SCHEMATIC  |  |
| Model      | PJ-029CH                                                                              |
| Center Pin | Ø1.0 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    | 06/30/2015 |
| 1.02 | increased voltage rating     | 05/04/2016 |
| 1.03 | brand update                 | 10/23/2019 |
| 1.04 | 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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