

## MODEL: PJ1-021 | DESCRIPTION: DC POWER JACK

#### FEATURES

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



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# ROHS

#### **SPECIFICATIONS**

| parameter                  | conditions/description | min | typ   | max | units  |
|----------------------------|------------------------|-----|-------|-----|--------|
| rated input voltage        |                        |     | 24    |     | Vdc    |
| rated input current        |                        |     |       | 5.0 | А      |
| contact resistance         |                        |     |       | 30  | mΩ     |
| insulation resistance      | at 500 Vdc             | 100 |       |     | MΩ     |
| voltage withstand          | for 1 minute           |     |       | 500 | Vac    |
| insertion/withdrawal force |                        | 0.3 |       | 3   | kg     |
| operating temperature      |                        | -25 |       | 85  | °C     |
| life                       |                        |     | 5,000 |     | cycles |
| flammability rating        | UL94V-0                |     |       |     |        |
| RoHS                       | yes                    |     |       |     |        |

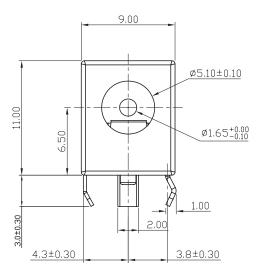
### SOLDERABILITY

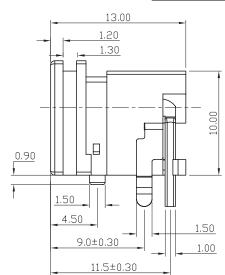
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| parameter      | conditions/description                  | min | typ | max | units |
|----------------|---|-----|-----|-----|-------|
| wave soldering | dipped in solder pot for 5 ±0.5 seconds | 255 | 260 | 265 | °C    |

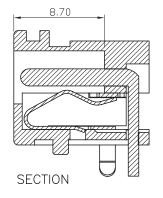
#### **MECHANICAL DRAWING**

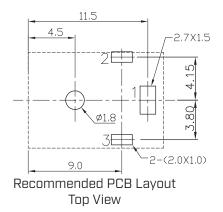
units: mm tolerance: X. ±0.50 mm X.X ±0.30 mm X.XX ±0.20 mm X.XXX ±0.20 mm PCB: ±0.05 mm unless otherwise specified



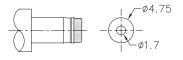


| DESCRIPTION | MATERIAL      | PLATING/COLOR |
|-------------|---------------|---------------|
| center pin  | brass         | nickel        |
| terminal 1  | brass         | nickel        |
| terminal 2  | bronze t=0.30 | silver        |
| terminal 3  | brass t=0.40  | silver        |
| housing     | PBT (UL94V-0) | black         |
|             |               |               |





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MATING PLUG Jack Insertion Depth: 8.7 mm

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

#### **REVISION HISTORY**

| rev. | description  | date       |
|------|--|------------|
| 1.0  | initial release  | 04/17/2006 |
| 1.01 | appearance update to pin 2   | 11/29/2010 |
| 1.02 | terminal 1 material changed to copper  | 02/28/2012 |
| 1.03 | applied new spec template  | 06/09/2015 |
| 1.04 | increased voltage rating   | 04/14/2016 |
| 1.05 | brand update   | 10/25/2019 |
| 1.06 | product reengineered for improved manufacturability and production yield, see<br>PCN for details | 03/14/2023 |

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

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



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