

# MODEL: PJ1-022 | DESCRIPTION: DC POWER JACK

#### **FEATURES**

- 0.65 mm center pin
- 1.0 A rating
- right angle orientation
- through hole



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#### **SPECIFICATIONS**

| parameter                       | conditions/description   | min | typ   | max      | units    |
|---------------------------------|--|-----|-------|----------|----------|
| rated input voltage             |  |     | 24    |          | Vdc      |
| rated input current             |  |     |       | 1.0      | А        |
| 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   |     |       |          |          |

rrent of less than 100

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## **SOLDERABILITY**

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

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## **MECHANICAL DRAWING**

| units: mm[inches]        |  |                        |                 | MATERIAL     | PLATING |
|--------------------------|--|------------------------|-----------------|--------------|---------|
| tolerance:<br>X.X ±0.2mm |  | $\geq$                 | center pin      | brass        | silver  |
| X.XX ±0.1mm              |  | 4                      | terminal 1      | brass        | silver  |
| X.XXX ±0.05mm            |  |                        | terminal 2      | copper alloy | silver  |
|                          |  | P                      | terminal 3      | brass        | silver  |
|                          |  |                        | plastic         | PA66         |         |
|                          |  | $\bigcup$              |                 |              |         |
|                          |  | -                      |                 |              |         |
|                          |  |                        |                 |              |         |
|                          |  |                        |                 |              |         |
|                          |  | I                      | I               |              |         |
|                          |  | <b>-</b> 12.           | 0[0.472]        |              |         |
|                          | 5.00[0.197] -                            | <b>◄</b> 11.0          | [0.433]         |              |         |
| <b>A</b>                 | Ø2.80[0.110]                             |                        |                 |              |         |
|                          |  |                        |                 |              |         |
| 5.00[0.197]              | \$\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | 5.00[0.197]            |                 |              |         |
| 3.00[0.118]              |  |                        |                 |              |         |
| <u> </u>                 |  |                        |                 |              |         |
| 3.00[0.118]              |  |                        |                 |              |         |
|                          |  | 0.80[0.<br>(TYP)       |                 |              |         |
| ¥[]                      |  |                        |                 |              |         |
|                          | → 1.00[0.039]                            | (2                     | 0.059]<br>PLCS) |              |         |
|                          |  |                        |                 |              |         |
|                          |  |                        |                 |              |         |
|                          |  |                        |                 |              |         |
|                          |  |                        |                 |              |         |
| ◄── 10.00[0              | 0.394 ]►                                 | I                      | 1               |              |         |
|                          |  | <b></b> 9.00[0         | .354] —         |              |         |
| 3.00[0.118]              | DX2.00<br>PLCS) - 1.2[0.047]             |                        | 0[0.217]        |              |         |
| 3.00_0.118_              | 3  |                        |                 |              |         |
|                          | 0.80X1.50                                |                        | 2               | Ī            |         |
|                          |  |                        |                 |              |         |
| i(i-)                    |  |                        | ──()+'\E        | 6.0[0.236]   |         |
|                          | Ø1                                       | .50[0.059]<br>(2 PLCS) | ♥ LIF           |              |         |
|                          |  | (2 FL00)               | 3               | Ļ            |         |
|                          | 2  |                        |                 |              |         |

YOUT VIEW 2.35 Ø0.7

MATING PLUG

Jack Insertion Depth: 8.0 mm

2.2[0.087]

Ø1.60[0.063] (2 PLCS)

5.50[0.217

-01 SCHEMATIC -03 -∞2 Model PJ1-022 Center Pin Ø0.65 mm

- 10.0[0.394] ·

1.20[0.047]

1. All specifications measured at 10~35°C, humidity at 45~85%, under standard atmospheric pressure, unless otherwise noted. Note:  CUI Inc | MODEL: PJ1-022 | DESCRIPTION: DC POWER JACK

#### **REVISION HISTORY**

| rev. | description               | date       |
|------|---------------------------|------------|
| 1.0  | initial release           | 04/17/2006 |
| 1.01 | applied new spec template | 01/21/2016 |
| 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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CUI offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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