

MODEL: PR-1755 | **DESCRIPTION:** DC POWER RECEPTACLE**FEATURES**

- designed for overmolding
- 7 A rating
- 1.6 mm center pin

**SPECIFICATIONS**

| parameter | conditions/description | min | typ | max | units |
|-----------------------|----------------------------------|-----|-------|-----|--------|
| rated input voltage | | | 20 | | Vdc |
| rated input current | | | | 7 | A |
| contact resistance | between plug and receptacle | | | 30 | mΩ |
| insulation resistance | at 500 Vdc | 100 | | | MΩ |
| voltage withstand | for 1 minute | | | 500 | Vac |
| insertion force | when mating with a standard plug | 0.3 | | 3 | kgf |
| withdrawal force | when mating with a standard plug | 0.3 | | 3 | kgf |
| operating temperature | | -25 | | 70 | °C |
| operating humidity | | | | 85 | % |
| life | | | 5,000 | | cycles |
| flammability rating | see material table | | | | |
| RoHS | yes | | | | |

SOLDERABILITY

| parameter | conditions/description | min | typ | max | units |
|----------------|------------------------|-----|-----|-----|-------|
| hand soldering | for maximum 1 second | 380 | 400 | 420 | °C |

MECHANICAL DRAWING

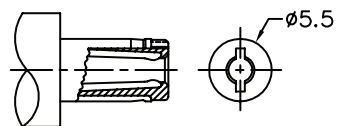
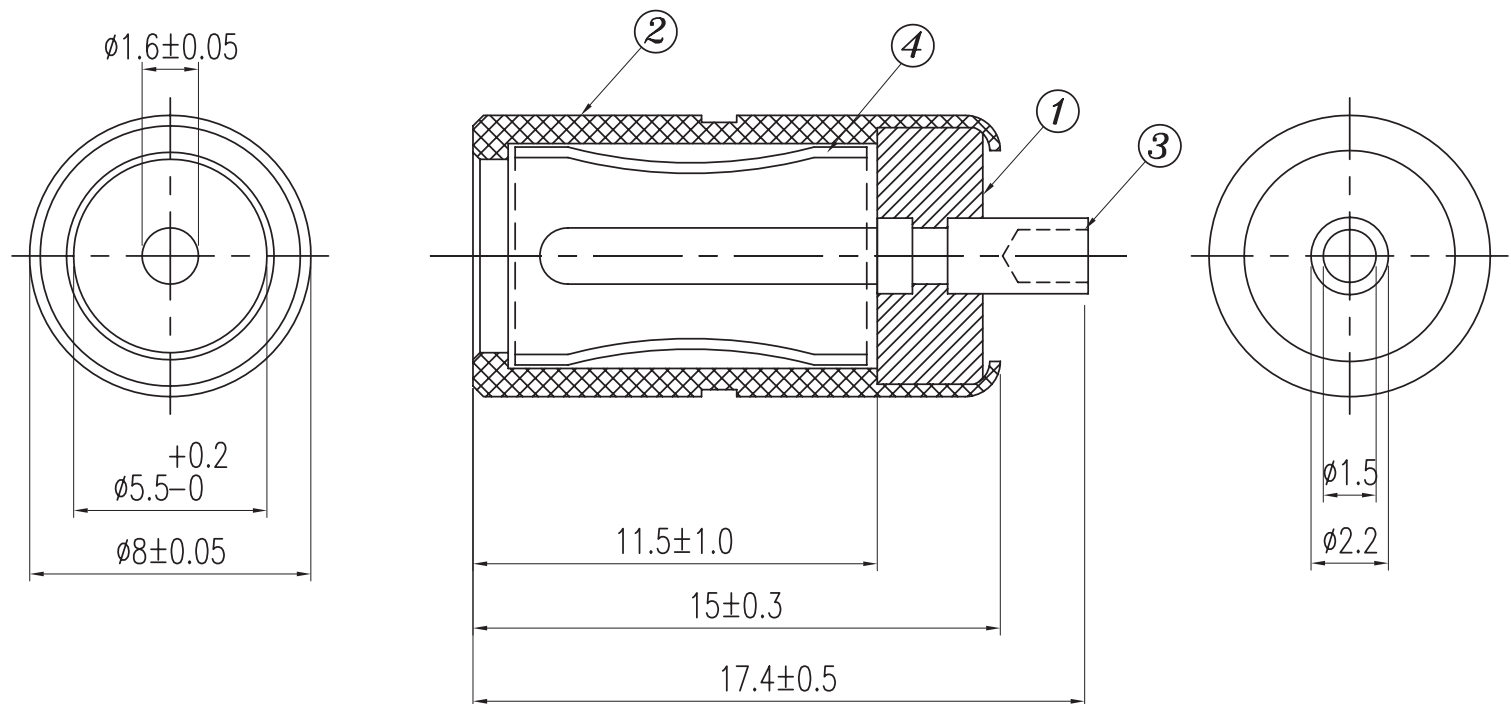
units: mm

tolerance:

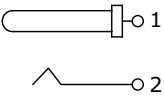
 $X \leq 1.0$: ± 0.1 mm $1.0 < X \leq 6.0$: ± 0.2 mm $6.0 < X \leq 18.0$: ± 0.3 mm $18.0 < X \leq 40.0$: ± 0.4 mm $X > 40.0$: ± 0.5 mm

unless otherwise noted

| ITEM | DESCRIPTION | MATERIAL | PLATING/COLOR |
|------|-------------|-----------------|---------------|
| 1 | insulator | PBT (UL94HB) | black |
| 2 | body | brass | nickel |
| 3 | center pin | brass | nickel |
| 4 | terminal 2 | phosphor bronze | nickel |



MATING PLUG
Jack Insertion Depth: 11.5 mm

| | |
|------------|---|
| Schematic |  |
| Model No. | PR-1755 |
| Center Pin | $\phi 1.6$ mm |

REVISION HISTORY

| rev. | description | date |
|------|-----------------|------------|
| 1.0 | initial release | 06/19/2018 |
| 1.01 | brand update | 11/07/2019 |

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

CUI DEVICES

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

CUI Devices reserves the right to make changes to the product at any time without notice. Information provided by CUI Devices is believed to be accurate and reliable. However, no responsibility is assumed by CUI Devices for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

CUI Devices products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[CUI Devices:](#)

[PR-1755](#)