



MODEL: PPM-2-47517-SG | DESCRIPTION: DC POWER PLUG

FEATURES

- designed for overmolding
- 6 A rating
- forked pin
- grooved



SPECIFICATIONS

| parameter             | conditions/description           | min | typ   | max | units  |
|-----------------------|----------------------------------|-----|-------|-----|--------|
| rated input voltage   |                                  |     | 20    |     | Vdc    |
| rated input current   |                                  |     |       | 6   | A      |
| contact resistance    | between plug and jack            |     |       | 30  | mΩ     |
| insulation resistance | at 500 Vdc                       | 100 |       |     | MΩ     |
| voltage withstand     | for 1 minute                     |     |       | 500 | Vac    |
| insertion force       | when mating with a standard jack | 0.5 |       | 3   | kgf    |
| withdrawal force      | when mating with a standard jack | 0.4 |       | 2   | 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

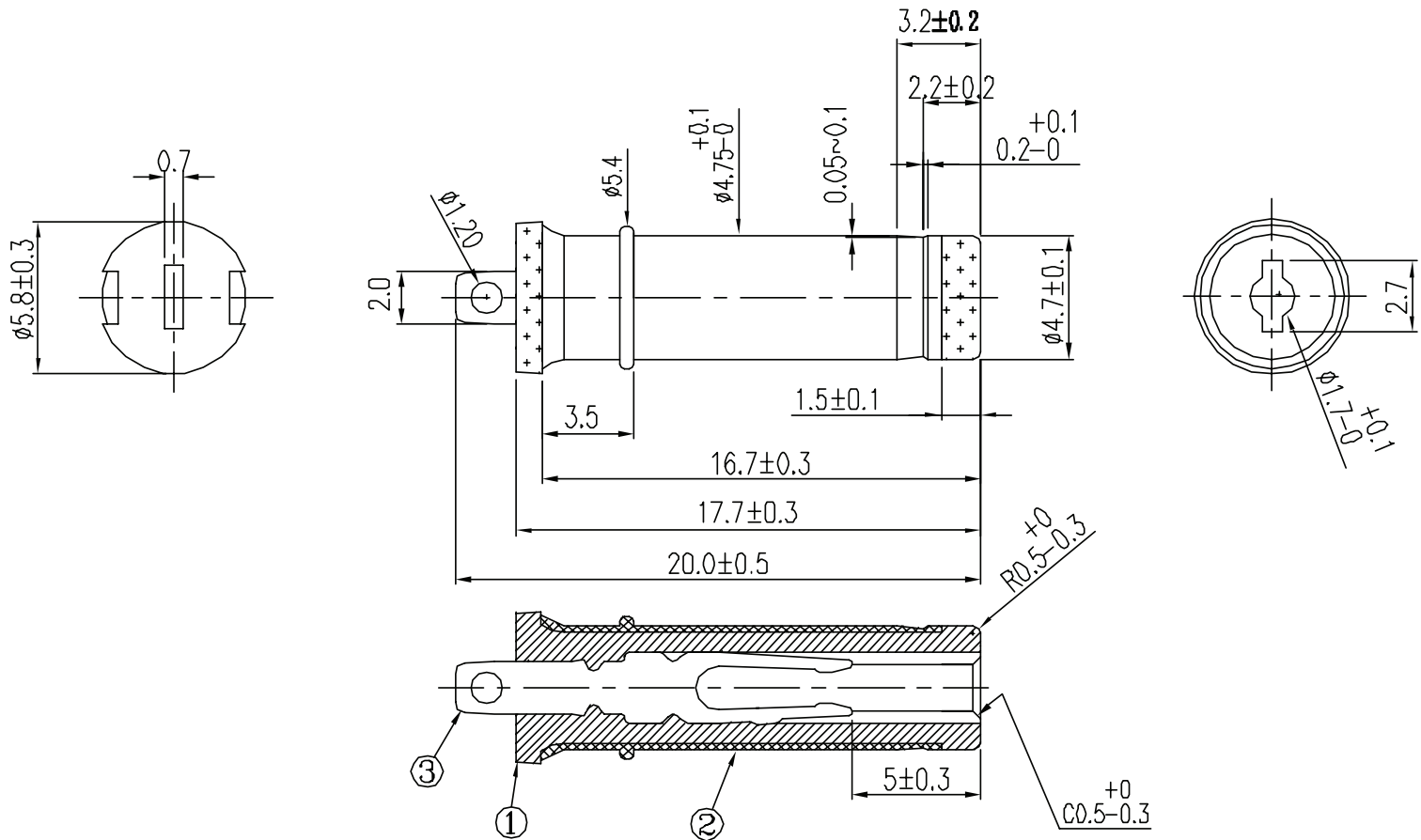
units: mm

tolerance:

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

unless otherwise noted

| ITEM | DESCRIPTION    | MATERIAL        | PLATING/COLOR |
|------|----------------|-----------------|---------------|
| 1    | insulator      | PBT [UL94HB]    | black         |
| 2    | outer barrel   | brass           | nickel        |
| 3    | center contact | phosphor bronze | nickel        |



REVISION HISTORY

| rev. | description                       | date       |
|------|-----------------------------------|------------|
| 1.0  | initial release                   | 06/18/2018 |
| 1.01 | brand update                      | 11/08/2019 |
| 1.02 | logo, datasheet style update      | 08/05/2022 |
| 1.03 | CUI Devices rebranded to Same Sky | 09/12/2024 |

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



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