

MODEL: SP-25503-0M | **DESCRIPTION:** AUDIO PLUG**FEATURES**

- 2.5 mm audio standard
- 6 conductor with outer metal rings
- designed for overmolding

**SPECIFICATIONS**

| parameter | conditions/description | min | typ | max | units |
|-----------------------|----------------------------------|-----|-------|-----|--------|
| rated input voltage | | | 12 | | Vdc |
| rated input current | | | | 1 | A |
| contact resistance | between plug and jack | | | 100 | mΩ |
| insulation resistance | at 100 Vdc | 50 | | | MΩ |
| voltage withstand | for 1 minute | | | 200 | Vac |
| insertion force | when mating with a standard jack | 0.4 | | 4 | kgf |
| withdrawal force | when mating with a standard jack | 0.4 | | 4 | 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

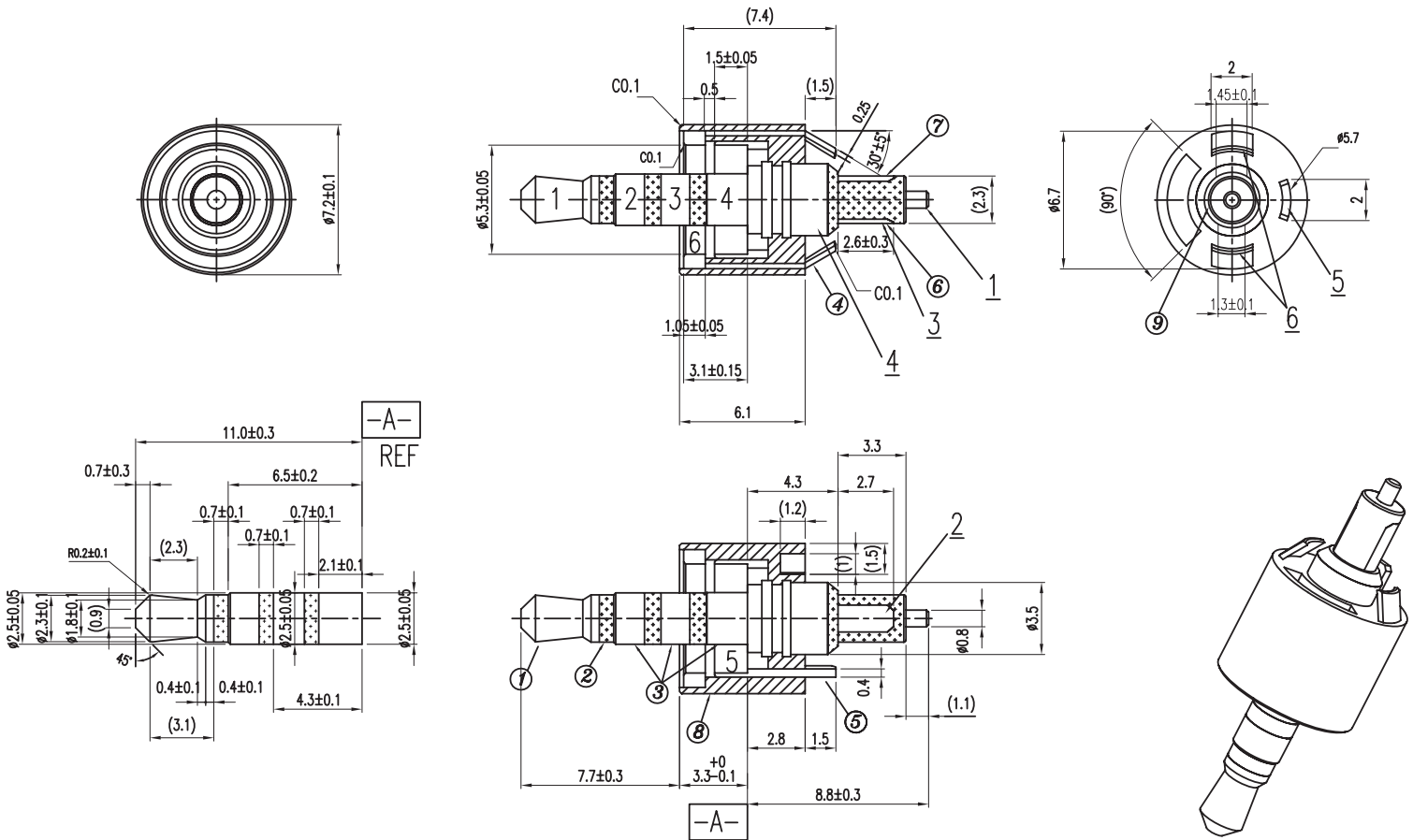
$6.0 < X \leq 18.0$: ± 0.3 mm

$18.0 < X \leq 40.0$: ± 0.4 mm

$X > 40.0$: ± 0.5 mm

unless otherwise noted

| ITEM | DESCRIPTION | MATERIAL | PLATING/COLOR |
|------|---------------------------|----------------|---------------|
| 1 | tip | brass | nickel |
| 2 | insulator | POM (UL94HB) | black |
| 3 | ring 1, ring 2, sleeve | brass | nickel |
| 4 | metal ring 1 terminal | brass | nickel |
| 5 | metal ring 2 terminal | brass | nickel |
| 6 | ring 1 terminal | phospor bronze | nickel |
| 7 | ring 2 terminal | phospor bronze | gold |
| 8 | insulator | POM (UL94HB) | black |
| 9 | insulator | POM (UL94HB) | yellow |



REVISION HISTORY

| rev. | description | date |
|------|-----------------|------------|
| 1.0 | initial release | 07/17/2020 |

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

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