

**MODEL:** SP-35501-0M | **DESCRIPTION:** AUDIO PLUG**FEATURES**

- 3.5 mm audio standard
- 5 conductor with outer ring
- 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            |     |       | 50  | mΩ     |
| insulation resistance | at 500 Vdc                       | 100 |       |     | MΩ     |
| voltage withstand     | for 1 minute                     |     |       | 250 | Vac    |
| insertion force       | when mating with a standard jack | 0.3 |       | 4   | kgf    |
| withdrawal force      | when mating with a standard jack | 0.3 |       | 4   | kgf    |
| operating temperature |                                  | -25 |       | 70  | °C     |
| operating humidity    |                                  |     |       | 85  | %      |
| life                  |                                  |     | 5,000 |     | cycles |
| flammability rating   | see material table               |     |       |     |        |
| RoHS                  | yes                              |     |       |     |        |

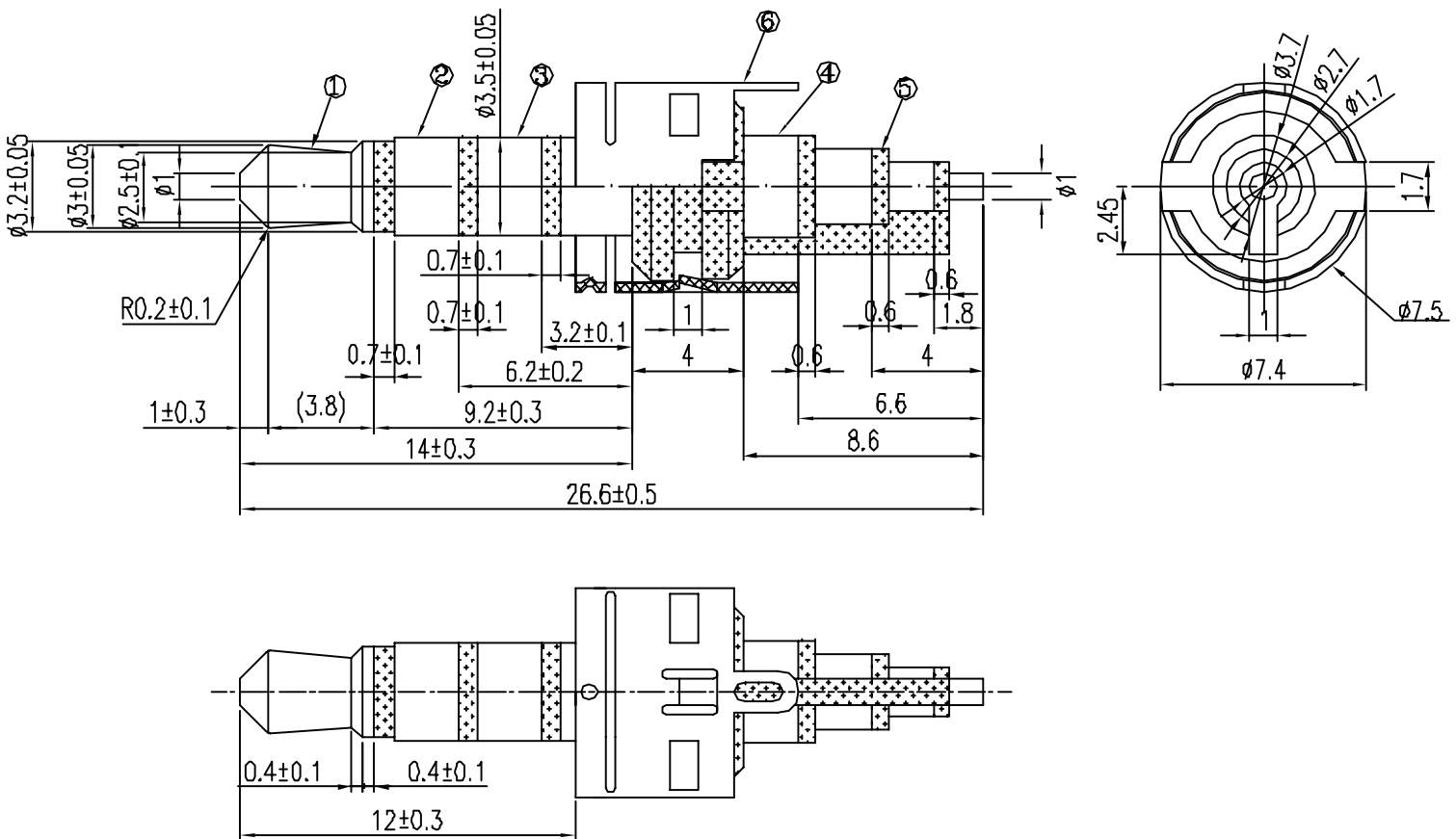
**SOLDERABILITY**

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

## MECHANICAL DRAWING

units: mm  
 tolerance:  
 X ≤ 1.0: ±0.1 mm  
 1.0 < X ≤ 6.0: ±0.2 mm  
 6.0 < X ≤ 18.0: ±0.3 mm  
 18.0 < X ≤ 40.0: ±0.4 mm  
 X > 40.0: ±0.5 mm  
 unless otherwise noted

| ITEM | DESCRIPTION | MATERIAL     | PLATING/COLOR |
|------|-------------|--------------|---------------|
| 1    | tip         | brass        | nickel        |
| 2    | ring 1      | brass        | nickel        |
| 3    | ring 2      | brass        | nickel        |
| 4    | sleeve      | brass        | nickel        |
| 5    | insulator   | POM (UL94HB) | black         |
| 6    | outer ring  | brass        | nickel        |



## REVISION HISTORY

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| 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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