

**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				

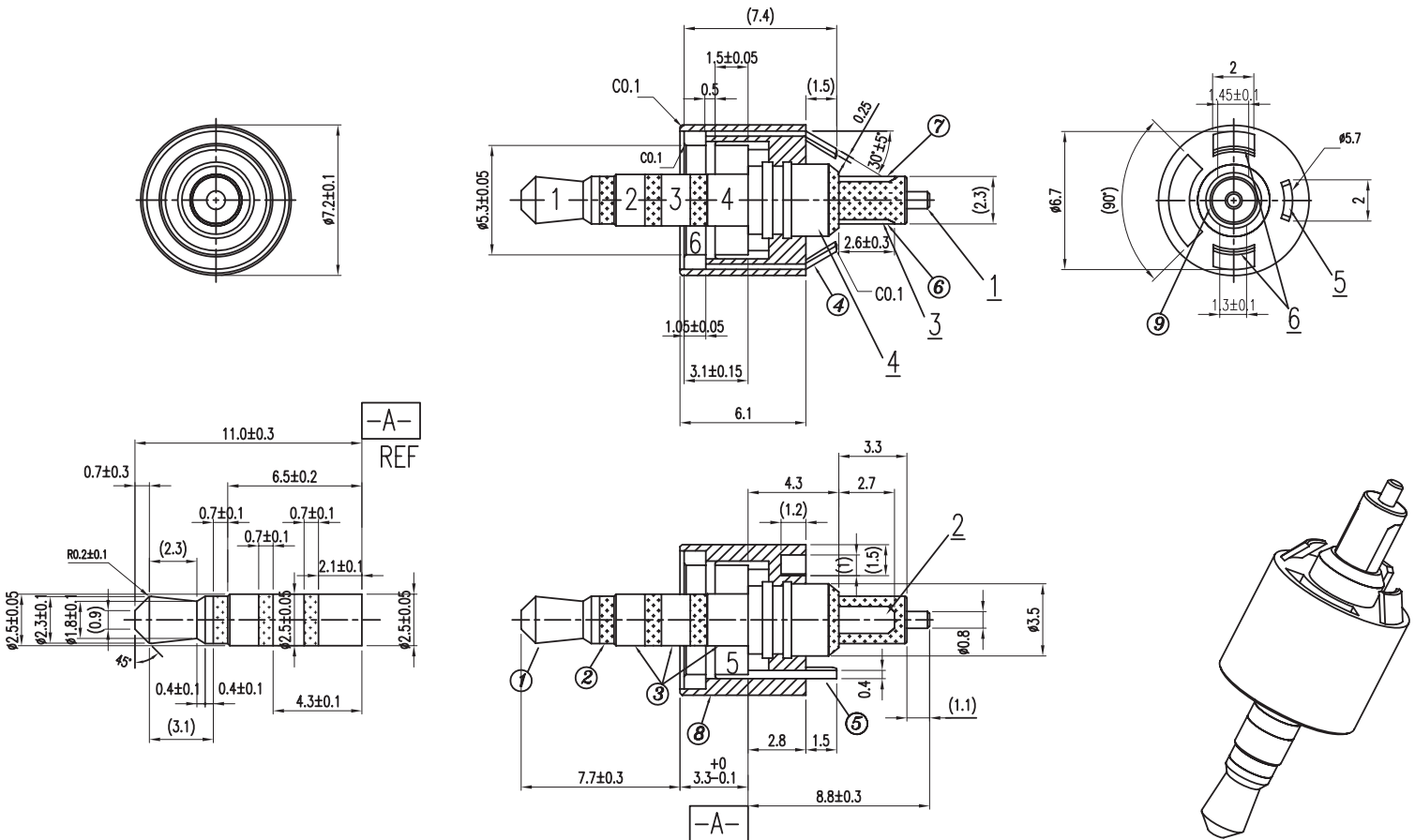
**SOLDERABILITY**

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

## MECHANICAL DRAWING

units: mm  
 tolerance:  
 $X \leq 1.0$ :  $\pm 0.1$  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	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	phosphor bronze	nickel
7	ring 2 terminal	phosphor bronze	gold
8	insulator	POM (UL94HB)	black
9	insulator	POM (UL94HB)	yellow



## 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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