

Operating Temperature Range

-25° to 70° C , relative humidity of 85% or less

Materials

- 1. Insulator: POM, black
- 2. Shell: C3604 brass, 2 μm nickel plated
- 3. Spring contact: C5191 phosphor bronze, 2 μm nickel plated
- 4. Spring fork: C5191 phosphor bronze, 1 μ" gold plated
- 5. Spring fork: C5191 phosphor bronze, 2 μm nickel plated

Electrical Requirements

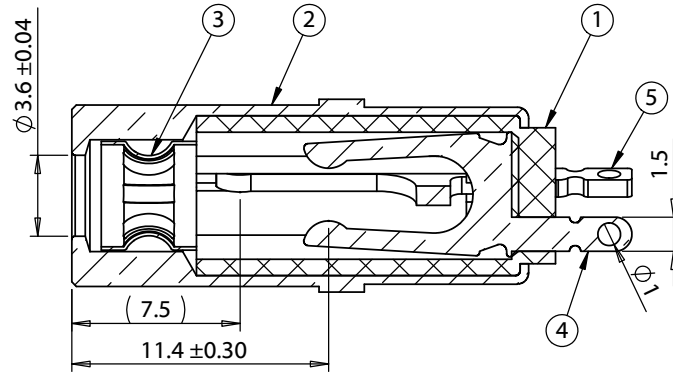
Dielectric strength: 1 min @ 500 Vac
 Insulation resistance: 100 MΩ @ 500 Vdc
 Contact resistance: 50 mΩ or less

Mechanical Requirements

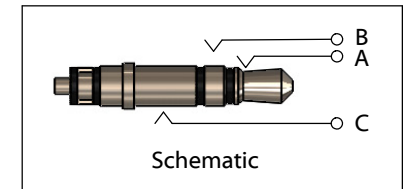
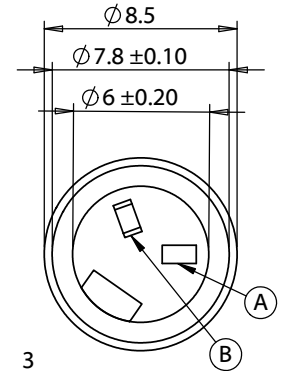
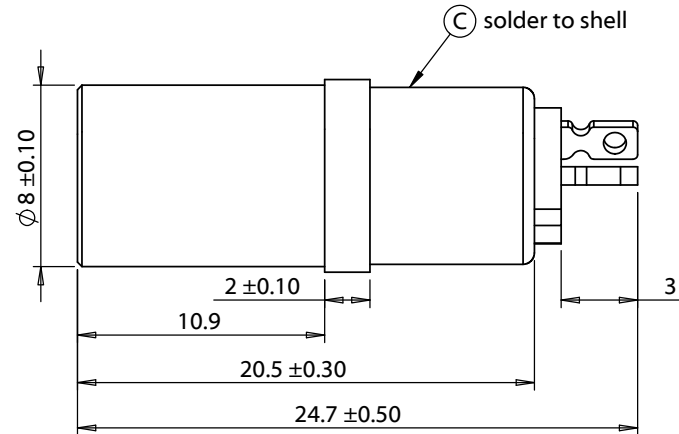
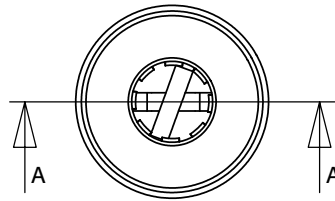
Insertion force: 0.4-4 kgf
 Withdrawal force: 0.4-4 kgf
 Life cycle: 5000 mating cycles while maintaining 0.3 kgf min.
 insertion force, 0.3 kgf min. withdrawal force and less than 60 mΩ contact resistance.

Environmental Requirements

Heat test: 70 °C, relative humidity 70-85% for 96 hours without deformation
 Humidity test: 40 °C, relative humidity 90-100% for 96 hours without deformation
 Salt spray test: 35±2 °C, relative humidity 90-95%, 5% NaCl mist for 24 hrs. Wash parts after test. Maintain mechanical requirements and a contact resistance of less than 100 mΩ.



SECTION A-A
SCALE 3 : 1



Revision:	Date:	Description:
A	9/4/2009	Initial release
A1	6/6/2012	Updated drawing
A2	3/8/2019	Corrected length tolerance

Prepared:
AG
Digitally signed by AG
Date: 2019.03.08
16:08:04 -08'00'

Verified:
GL
Digitally signed by GL
Date: 2019.03.12
11:49:41 -07'00'

Dimensions are in millimeters.
Tolerances:
X: ± 0.5 mm
X.X: ± 0.3 mm
X.XX: ± 0.05 mm

Notes:
RoHS Compliant

Function test: no open, no short circuit, no intermittent

Description:
Connector, stereo jack, 3.5x8.0xL24.7 mm, brass, nickel plated, molding style

TENSILITY

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Size: Part number:
A 50-00039

Scale: 5:1



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