

Operating Temperature Range

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

Materials

1. Shell, C3604 brass, 2 μm nickel plated
2. Spring contact: C5191 phosphor bronze, 2 μm nickel plated
3. Solder tab: C2680 brass, 2 μm nickel plated
4. Insulator: PBT + 15% GF, black
5. Spring fork: brass, C5191 phosphor bronze, 2 μm nickel plated
6. Spring fork: C5191 phosphor bronze, 1 μ" gold plated

Electrical Requirements

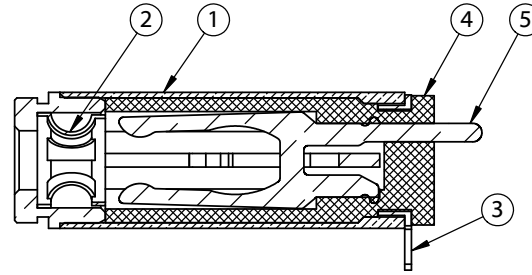
Dielectric strength: 1 min @ 500 Vac
 Insulation resistance: 100 MΩ @ 500 Vdc
 Contact resistance: 50 mΩ or less

Mechanical Requirements

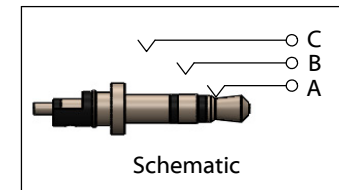
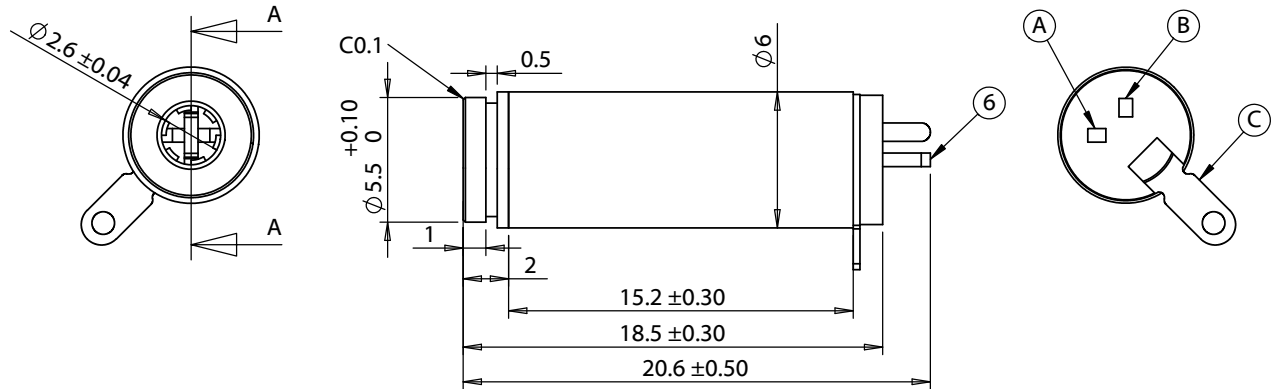
Insertion force: 0.4-4 kgf
 Withdrawal force: 0.4-4 kgf
 Life cycle: 5000 mating cycles while maintaining 0.3 kgf min. insertion force, 0.3 kgf min. withdrawal force and less than 100 mΩ contact resistance.

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 80 mΩ.



SECTION A-A
 SCALE 3 : 1



Revision:	Date:	Description:
A	9/4/2009	Initial release
A1	5/21/2012	Updated materials

Prepared:

Verified:

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

Notes:
 RoHS and REACH compliant

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

Description:
 Connector, stereo jack, 2.5xL20.6 mm, brass, nickel plated, molding style

TENSILITY

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Size: Part number:
 A 50-00035

Scale: 5:1 Sheet 1 of 1