

**Operating Temperature Range**

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

**Materials**

1. Shell: C2700 brass, 2µm nickel plated
2. Spring contact: C5191 phosphor bronze, 2µm nickel plated
3. Solder tab: C2680 brass, 2µm nickel plated
4. Insulator: PBT + 15% GF, black
5. Spring fork: C5191 phosphor bronze, 0.5µ" gold plated
6. Top head: C3604 brass, 2µm nickel plated

**Electrical Requirements**

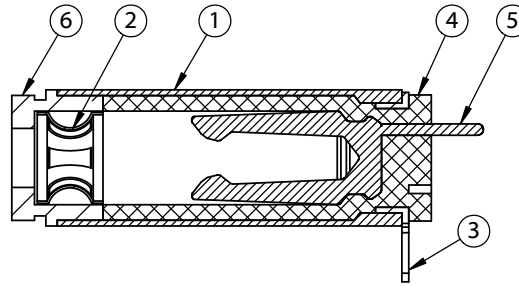
Dielectric strength: 1 min @ 500 Vac  
 Insulation resistance: 100 MΩ @ 500 Vdc  
 Contact resistance: 50 mΩ or less

**Mechanical Requirements**

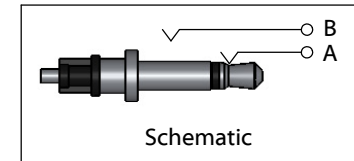
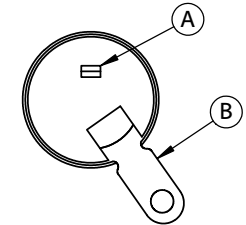
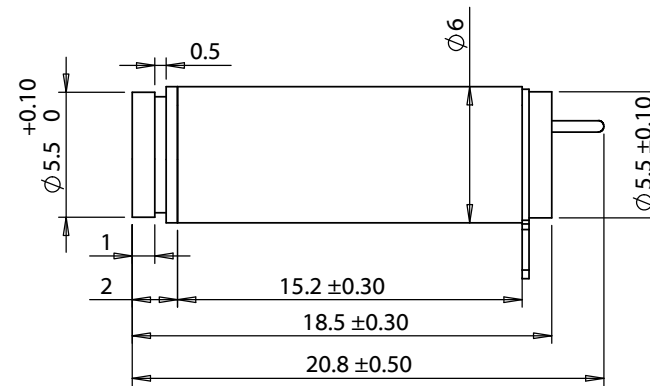
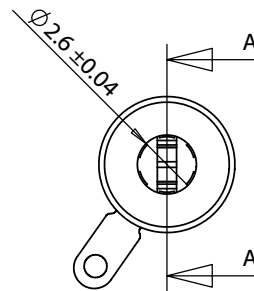
Insertion force: 0.4-4 kgf  
 Withdrawal force: 0.4-4 kgf  
 Life cycle: 5000 mating cycles while maintaining 0.3 kgf min. insertion force, 0.3 kgf min. withdrawal force and less than 100 mΩ contact resistance.

**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

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, mono plug, 2.5xL19.6 mm, brass, nickel plated, molding style

**TENSILITY**

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Size:	Part number:
A	50-00033
Scale: 5:1	Sheet 1 of 1