## **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:  $50 \text{ m}\Omega$  or less

# **Mechanical Requirements**

Insertion force: 0.4-4 kgf Withdrawal force: 0.4-4 kgf

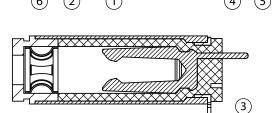
Life cycle: 5000 mating cycles while maintaining 0.3 kgf min. insertion force, 0.3 kgf min. withdrawal force and less than 100 mΩ contact resistance.

## **Environmental Requirements**

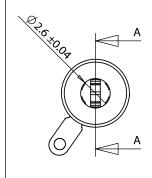
Heat test: 70 °C, relative humidity 70-85% for 96 hours without deformation

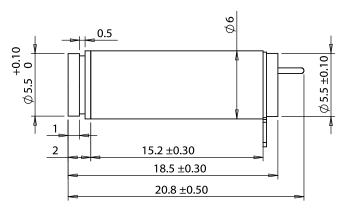
Humidity test: 40 °C, relative humidity 90-100% for 96 hours without deformation

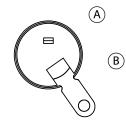
Salt spray test: 35±2 °C, relative humidity 90-95%, 5% NaCl mist for 24 hrs. Wash parts after test. Maintain mechanical requirements and a contact resistance of less than 80 m $\Omega$ .

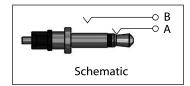


**SECTION A-A** SCALE 3:1









Revision:	Date:	Description:	Prepared:	Notes:						
А	9/4/2009	Initial release	RS Digitally signed by RS Date: 2018.05.11 10:04:04 - 07'00'	RoHS compliant		TENSILITY				
			AW  Digitally signed by AW Date: 2018.05.11 12:04:06-07'00'	Function test: no open, no short circuit, no intermittent		tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com				
			Dimensions are in							
			millimeters. Tolerances:	Description:		Size:				
			X: ± 0.5 mm	Connector, mono jack, 2.5x6.0xL20.8 mm, brass, nickel plated, molding style		A 50-00033				
			X.X: ± 0.3 mm X.XX: ± 0.05 mm			Scale:	5:1		Sheet 1 of 1	

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