Materials

- 1. Shell, C3604 brass, 2 μm nickel plated
- 2. Insulator, PBT + 15% glass fiber, black
- 3. Terminal, phosphor bronze, 1 µm gold plated
- 4. Plastic tube insulator, POM, white

Electrical requirements

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

Mechanical requirements

Insertion force: 0.3-2 kgf Withdrawal force: 0.3-2 kgf

Durability: 5000 mating cycles while maintaining; 0.1 kgf min. insertion force, 0.1 kgf min. withdrawal force and a less than 60 m Ω contact resistance.

Environmental requirements

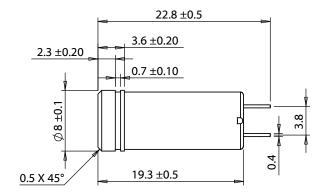
Damp test: 40 °C, RH 90-100% for 96 hrs. Cool to ambient and recover for 2 hours. Maintain dielectric strength of 500 Vac for 1 min, insulation resistance of 50 M Ω @ 500 Vdc minimum.

Dry test: 70 °C, RH 70-85% for 96 hrs. Cool to ambient and recover for 2 hours. Maintain contact resistance of 100 m Ω or less.

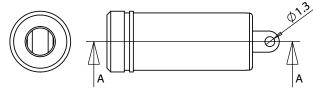
Salt spray test: 35 ± 2 °C, RH 90-95%, 5% NaCl mist for 24 hrs. Wash parts after test. Maintain mechanical requirements and a contact resistance of less than 100 m Ω .

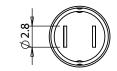
Operating range

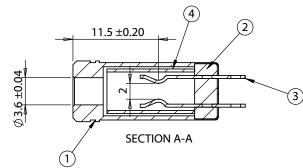
-25 to 70 °C, relative humidity of 85% or less











REVISION	DATE	DESCRIPTION	PREPARED:	NOTES	
Α	1/23/2015	Initial release		RoHS and REACH compliant	TENSILITY
' '	., _0, _0 .0			Function test: no open, no reversed polarity, no	. — . •
			VERIFIED:	short circuit, no INT	20802 Sockeye Place #130 Bend, OR 97701 USA
			_	Functionally equivalent components may be used	tel 541.323.3228 fax 541.323.4202
			DIMENSIONS ARE IN	Drawing in third angle projected	800 877.670.7118 www.tensility.com

DESCRIPTION: TOLERANCES: Connector, mono jack, 3.5x8.0xL22.8 mm, brass, + 0.5 mm nickel plated, molding style X.X: ± 0.3 mm

SIZE PART NUMBER 50-00480

SCALE: 1:1 SHEET 1 OF 1

3 2 5

MILLIMETERS

X.XX: ± 0.05 mm