

Materials

1. Insulator, ABS, black
2. Pin, C3604 brass, 2 μ m nickel plated
3. Shell, C3604 brass, 2 μ m nickel plated
4. Spring contact, C5191 phosphor bronze, 2 μ m nickel plated

Electrical requirements

Dielectric strength: 1 min @ 500 Vac
Insulation resistance: 100 M Ω @ 500 Vdc
Contact resistance: 30 m Ω or less
Rated voltage: 20 Vdc
Rated current: 7 A

Mechanical requirements

Insertion force: 0.3-3 kgf
Withdrawal force: 0.3-3 kgf
Durability: 5000 mating cycles while maintaining; 0.3 kgf min. insertion force, 0.2 kgf min. withdrawal force and a less than 100 m Ω contact resistance.

Environmental requirements

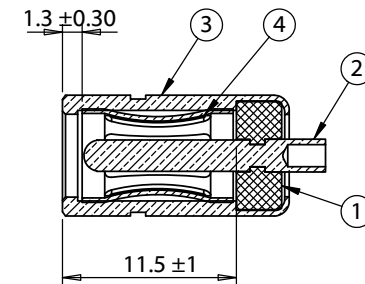
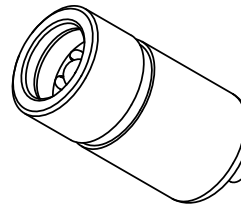
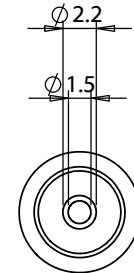
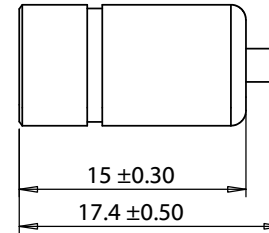
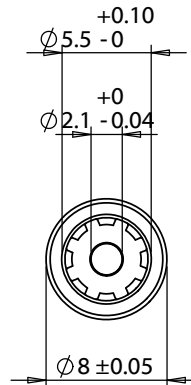
Damp test: 40 °C, RH 90-100% for 96 hrs. Cool to ambient and recover for 2 hours. Maintain dielectric strength of 500 Vac for 1 min, insulation resistance of 50 M Ω @ 500 Vdc minimum and a contact resistance of 100 m Ω or less.

Dry test: 70 °C, RH 70-85% for 96 hrs. Cool to ambient and recover for 2 hours. Maintain insulation resistance of 50 M Ω @ 500 Vdc minimum and a contact resistance of 100 m Ω or less.

Salt spray test: 35 °C, RH 90-95%, 5% NaCl mist for 24 hrs. Wash parts after test. Maintain mechanical requirements and a contact resistance of less than 80 m Ω .

Operating range

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



Revision	Date	Description
A	9/2/2009	Initial release
A1	11/9/2012	Added test data

Notes

RoHS compliant

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

DIMENSIONS ARE IN MILLIMETERS

TOLERANCES:

X: ± 0.5 mm

X.X: ± 0.3 mm

X.XX: ± 0.05 mm

DESCRIPTION:

Connector, dc jack, 5.5x2.1xL17.4 mm, molding style

TENSILITY

20802 Sockeye Place #130
Bend, OR 97701 USA
tel 541.323.3228 fax 541.323.4202
800 877.670.7118 www.tensility.com

SIZE
A Part number
50-00025

SCALE: 2:1

WEIGHT:

SHEET 1 OF 1