Materials

1. Insulator, PBT, black 2. Shell, C3604 brass, 2 µm nickel plated 3. Spring contact, C5191 phosphor bronze, 2 um nickel plated

Electrical requirements

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

Mechanical requirements

Insertion force: 0.3-3 kaf Withdrawal force: 0.3-3 kgf Durability: 5000 mating cycles while maintaining; 0.3-2 kgf insertion force, 0.2-1.5 kgf 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.

Drv test: 70 °C. RH 70-85% for 96 hrs. Cool to ambient and recover for 2 hours. Maintain insulation resistance of 50 $M\Omega @ 500$ Vdc minimum and a contact resistance of 100 $m\Omega$ 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 .

Description

Initial release

Added test data

4

Operating range

Revision

А

A1

A2

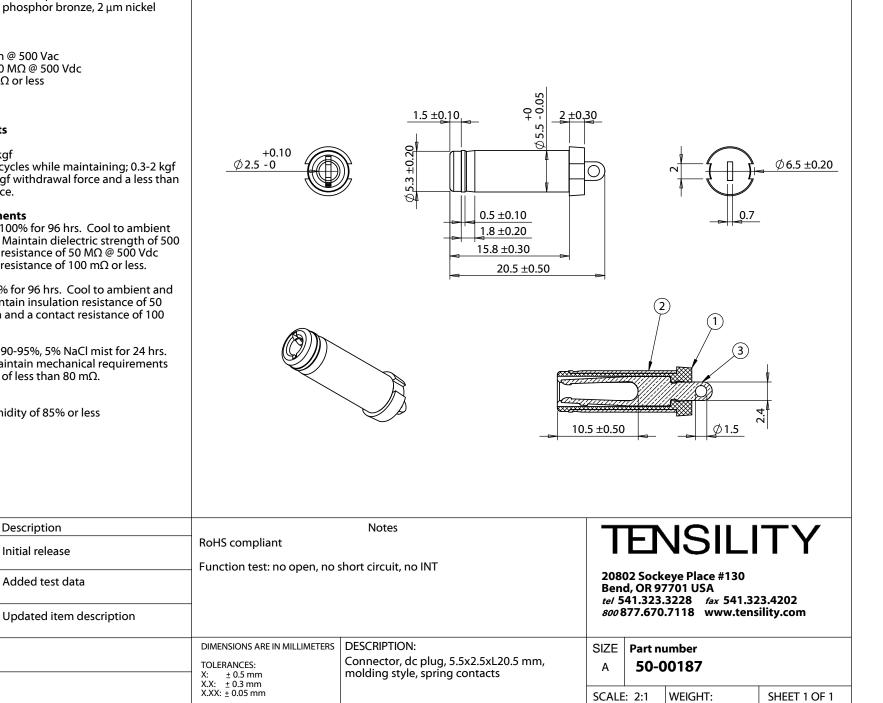
Date

11/28/2011

11/9/2012

12/6/2012

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



2

1

3

5