Materials

1. Shell, C3604 brass, 2 μm nickel plated plated

2. Center contact, C5191 phosphor bronze, 2 μm nickel 3. Insulator, PBT + 15% glass fiber, black

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; 0.3-2 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.

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 .

Description:

Initial release

Added test data

Operating range

Date:

9/2/2009

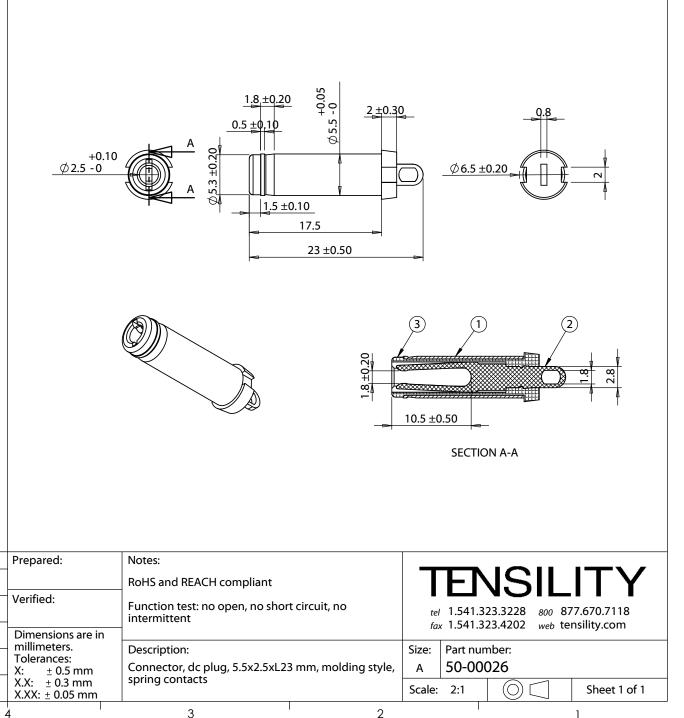
11/9/2012

Revision:

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A1

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



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