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

Materials
1. Shell: C2700 brass, 2μm nickel plated
2. Spring contact: CS191 phosphor bronze, 2μm nickel plated
3. Solder tab: C2680 brass, 2μm nickel plated
4. Insulator: PBT + 15% GF, black
5. Spring fork: CS191 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 mΩ 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
mists for 24 hrs. Wash parts after test. Maintain mechanical
requirements and a contact resistance of less than 80 mΩ.

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Revision: Date: Description:
A 9/4/2009 Initial release

Prepared: RS

Verified: AW

Notes:
RoHS compliant
Function test: no open, no short circuit, no
intermittent

Dimensions are in millimeters.
Tolerances:
X: ± 0.5 mm
XX: ± 0.3 mm
XXX: ± 0.05 mm

Description:
Connector, mono jack, 2.5x6.0xL20.8 mm, brass,
nickel plated, molding style

Size: Part number:
A 50-00033

Scale: 5:1 Sheet 1 of 1

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