USB mini B jack 180° PCB mount

**Revision:** A 09/28/2015 Initial release

**A1** 07/30/2018 Corrected operating temp range

**Prepared:**

GL

**Verified:**

RS

**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, USB mini B Jack, PCB mount, 180°, nickel shell, DIP, black insulator, tray

**Size:** A

**Part number:** 54-00023

**Scale:** 5:1

To see a custom version of this cable assembly, call Tensility at 541-323-3228 or email engineering@tensility.com
Materials
1. Shell, phosphor bronze, nickel plated
2. Pins, phosphor bronze, 5 μ gold and tin plating
3. Insulator, Nylon 46, black

Electrical
Rated voltage: 30 Vdc
Rated current: 2 A
Dielectric strength: 1 min @ 500 Vac
Insulation resistance: 100 MΩ @ 500 Vdc
Contact resistance: 50 mΩ or less

Mechanical
Insertion force: 3.5 kgf maximum
Withdrawal force: 0.7 kgf minimum
Durability: 5000 cycle minimum life; less than 100 mΩ contact resistance, minimum 50 MΩ insulation resistance
Terminal strength: 0.3 kgf in any direction for 15 seconds without damage or looseness

Soldering
Solderability: 75% minimum coverage when terminals dipped 2 mm in 255 ±5 °C solder bath for 3 ±0.5 seconds
Solder bath durability: no deformation when immersed in 260 ±5 °C up to surface of the board for 10 seconds
or less
Solder iron durability: no deformation when exposed to 350 ±10 °C for 3 ±0.5 seconds

Environmental
Cold test: -40 ±3 °C for 48 hours without deformation
Heat test: 85 ±2 °C for 48 hours without deformation
Humidity test: 40 ±2 °C and humidity between 90 and 98% for 48 hours without deformation

Operating range
-40 ~ 85 °C

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Tin
Gold
Pin plating detail

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TENSILITY
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