



**Materials**

1. Shell, phosphor bronze, nickel plated
2. Pins, phosphor bronze, 5 μ" gold and tin plating
3. Insulator, Nylon, 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

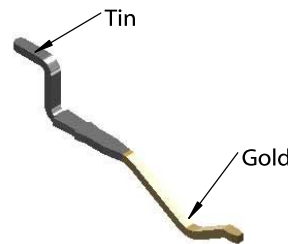
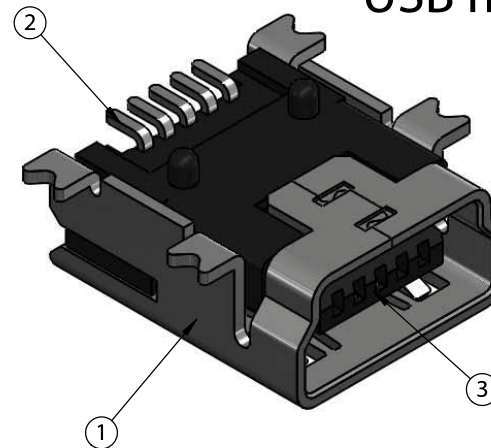
**Environmental**

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

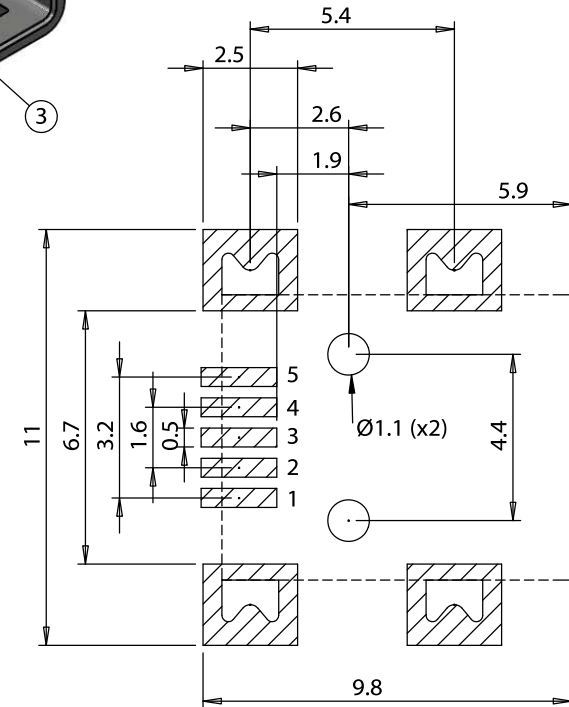
**Operating range**

-40 ~ 85 °C

# USB mini B jack 90° SMT mount



Pin plating detail



Revision:	Date:	Description:
A	09/28/2015	Initial release
A1	07/30/2018	Corrected operating temp range

Prepared: **GL**  
Digitally signed by GL  
 Date: 2018.08.06  
 11:08:16 -0700

Verified: **RS**  
Digitally signed by RS  
 Date: 2018.08.09  
 11:06:28 -0700

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

Notes:  
 RoHS compliant

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

Description:  
 Connector, USB mini B Jack, SMT mount, 90°, nickel shell, black insulator, reel

# TENSILITY

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Size: A Part number: 54-00021

Scale: 5:1 Sheet 2 of 2