

### Materials

1. Shell, stainless steel, nickel plated
2. Pins, brass, 5 μ" gold and tin plating
3. Insulator, PBT, black

### Electrical

Rated voltage: 30 Vdc  
 Rated current: 3 A  
 Dielectric strength: 1 min @ 500 Vac  
 Insulation resistance: 500 MΩ @ 500 Vdc  
 Contact resistance: 50 mΩ or less

### Mechanical

Insertion force: 3.5 kgf maximum  
 Withdrawal force: 1.0 kgf minimum  
 Durability: 1500 cycle minimum life; less than 100 mΩ contact resistance, minimum 100 MΩ insulation resistance  
 Terminal strength: 0.3 kgf in any direction without damage or looseness

### Soldering

Solderability: 75% minimum coverage when terminals dipped 2 mm in 245 ±5 °C solder bath for 3 ±0.5 seconds  
 Solder bath durability: no deformation when immersed in 255 ±5 °C up to surface of the board for 5 seconds or less  
 Solder iron durability: no deformation when exposed to 350 ±10 °C for 3 ±0.5 seconds

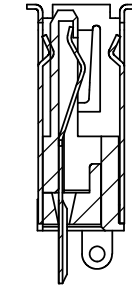
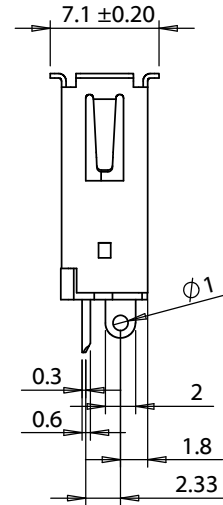
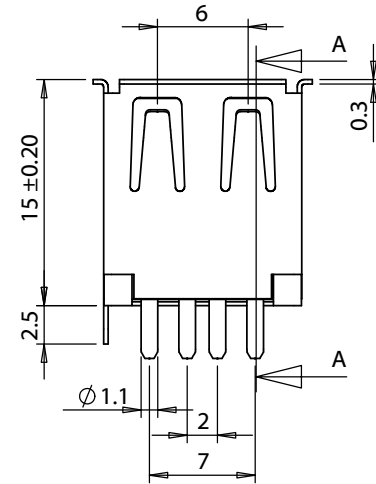
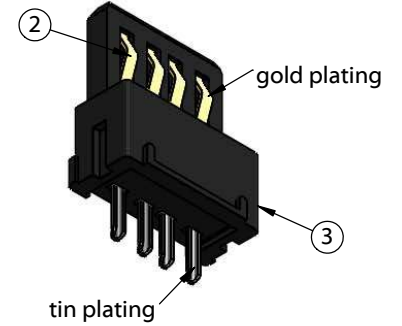
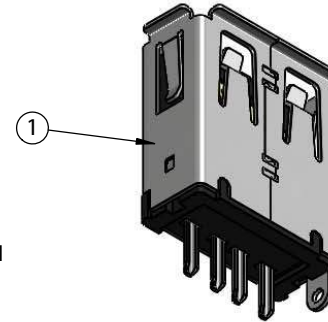
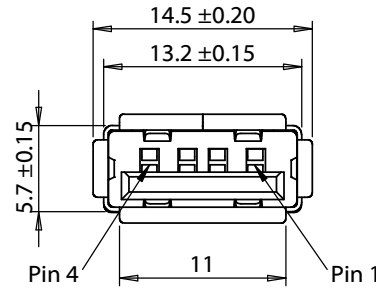
### Environmental

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 A jack molding style



SECTION A-A

Revision:	Date:	Description:
A	12/16/2015	Initial release
A1	07/24/2018	Corrected operating temp range

Prepared:  
**GL**  
Digitally signed by GL  
 Date: 2018.08.06  
 09:24:23 -07'00'

Verified:  
**RS**  
Digitally signed by RS  
 Date: 2018.08.09  
 09:26:59 -07'00'

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

Notes:  
 RoHS and REACH compliant

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

Description:  
 Connector, USB A Jack, molding style, 180°, nickel shell, ground, black insulator

**TENSILITY**

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Size:	Part number:
A	50-00491
Scale: 2:1	Sheet 1 of 1