

**Materials**

1. Shell, steel, nickel plated
2. Pins, brass, 5 μ" gold and tin plating
3. Insulator, PA9T, blue

**Electrical**

Rated voltage: 30 Vdc  
 Rated current: 3 A  
 Dielectric strength: 500 Vac for 1 min. without damage  
 Insulation resistance: 500 MΩ after 500 Vdc for 1 min  
 Contact resistance: 50 mΩ or less

**Mechanical**

Insertion force: 3.5 kgf maximum  
 Withdrawal force: 1.0 kgf minimum  
 Durability: 1500 cycles unloaded, while maintaining:  
 Contact resistance: 100 mΩ  
 Insulation resistance: 100 MΩ insulation  
 Dielectric strength: 100 Vac for 1 min without damage  
 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

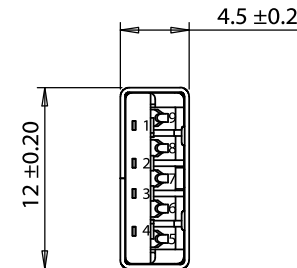
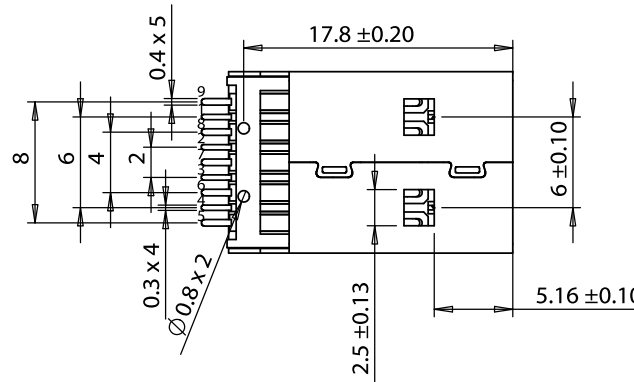
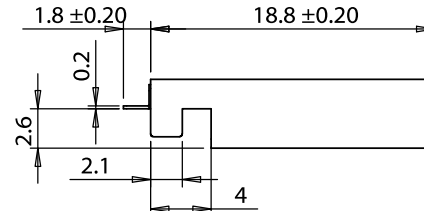
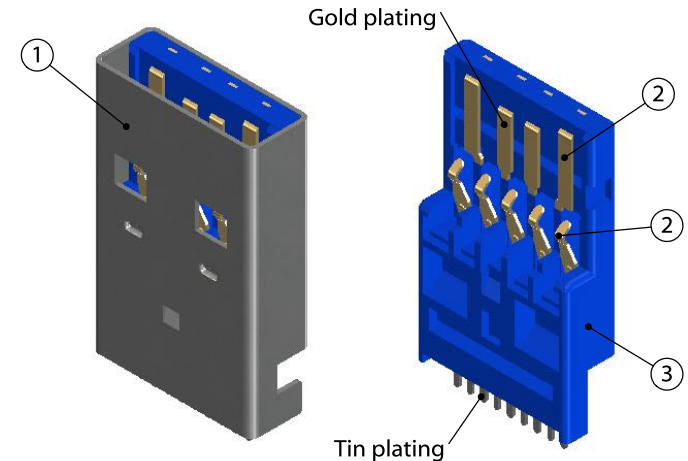
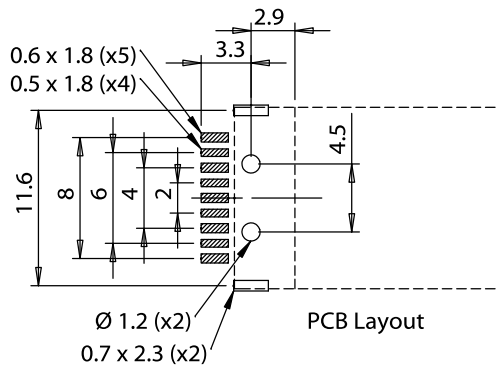
**Environmental**

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 A 3.0 plug Horizontal SMT or molding style



Revision:	Date:	Description:
A	12/14/2015	Initial release
A1	06/18/2018	Corrected pinout numbering
A2	07/27/2018	Corrected operating temp range
A3	9/4/2018	Changed insulator material

Prepared: AG  
Digitally signed by AG  
 Date: 2018.09.04  
 16:26:57 -07'00'

Verified: GL  
Digitally signed by GL  
 Date: 2018.09.04  
 16:29:32 -07'00'

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 A 3.0 plug, horizontal SMT or molding style, nickel shell, blue insulator

**TENSILITY**

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Size: A Part number: 50-00469

Scale: 2:1 Sheet 1 of 1