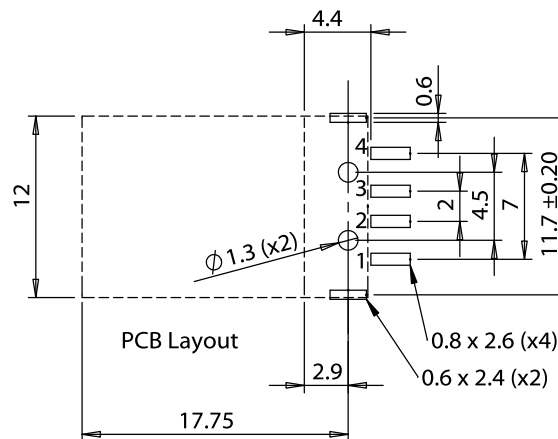
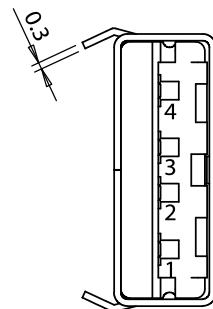
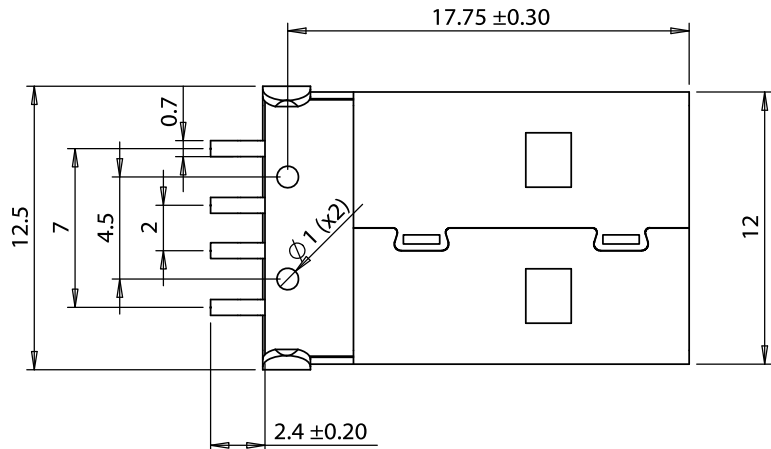
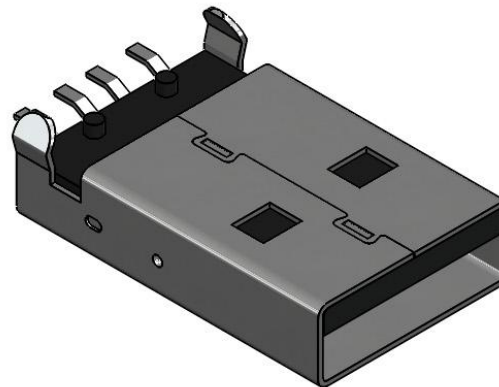
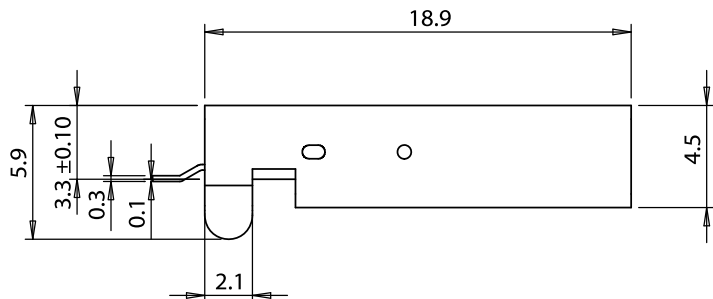


# USB A plug 90° SMT mount



Revision:	Date:	Description:	Prepared:	Notes:	<h1>TENSILITY</h1>	
A	09/28/2015	Initial release	AG <small>Digitally signed by AG Date: 2018.09.05 13:59:44 -0700</small>			RoHS compliant
A1	07/27/2018	Corrected operating temp range	Verified: PS <small>Digitally signed by PS Date: 2018.09.05 14:02:47 -0700</small>			Function test: no open, no short circuit, no intermittent
A2	9/4/2018	Changed insulator material	Dimensions are in millimeters. Tolerances: X: ± 0.5 mm X.X: ± 0.3 mm X.XX: ± 0.05 mm	Description: Connector, USB A plug, PCB mount, 180°, nickel shell, board lock, black insulator, tray	Size: A Part number: 54-00011	
				Scale: 2:1	Sheet 1 of 2	

## Materials

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

## 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  
 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 5 seconds or less  
 Solder iron durability: no deformation when exposed to 350 ±10 °C for 3 ±0.5 seconds

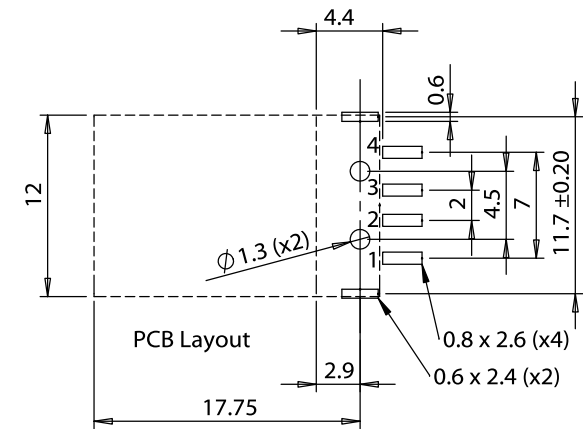
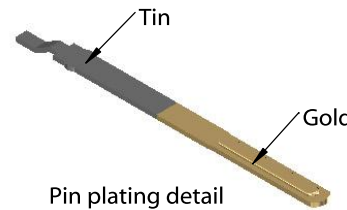
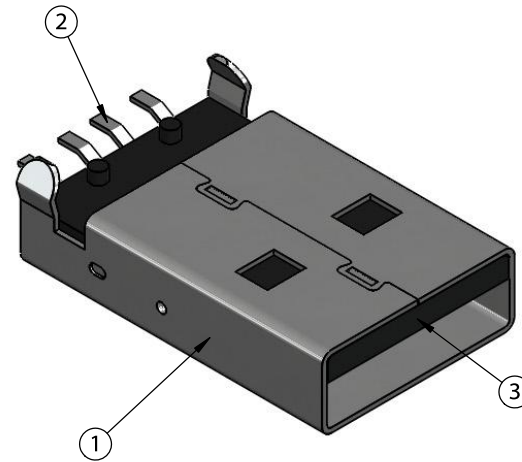
## Environmental

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 plug 90° SMT mount



Revision:	Date:	Description:
A	09/28/2015	Initial release
A1	07/27/2018	Corrected operating temp range
A2	9/4/2018	Changed insulator material

Prepared:  
**AG**  
Digitally signed by AG  
 Date: 2018.09.05 13:59:56  
 +0700

Verified:  
**PS**  
Digitally signed by PS  
 Date: 2018.09.05 14:03:19 +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 A plug, PCB mount, 180°, nickel shell, board lock, black insulator, tray

# TENSILITY

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Size: A	Part number: 54-00011
Scale: 2:1	Sheet 2 of 2