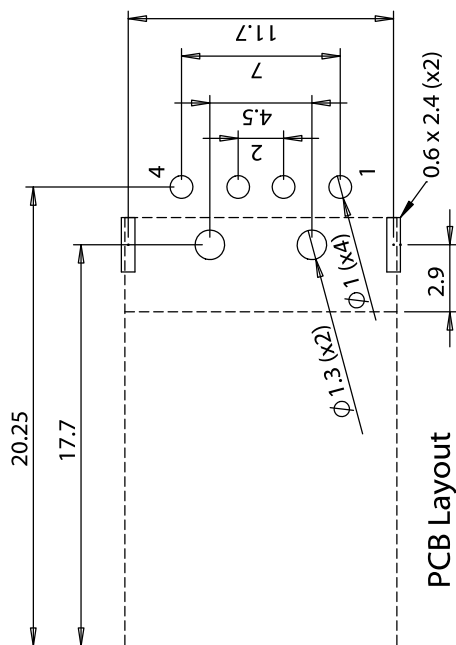
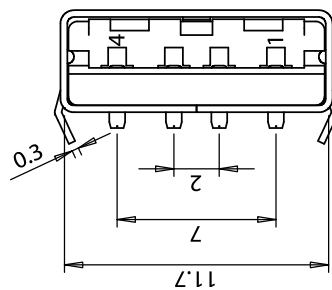
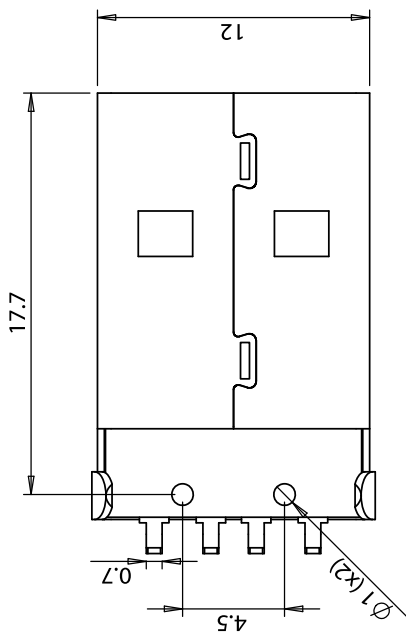
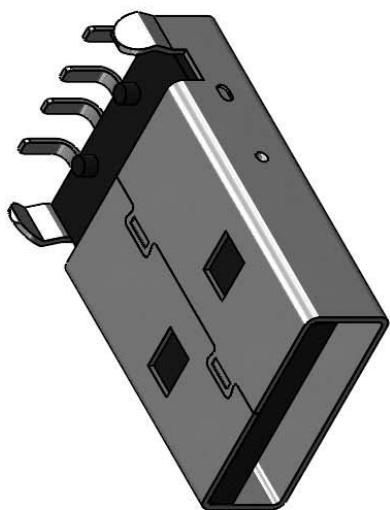
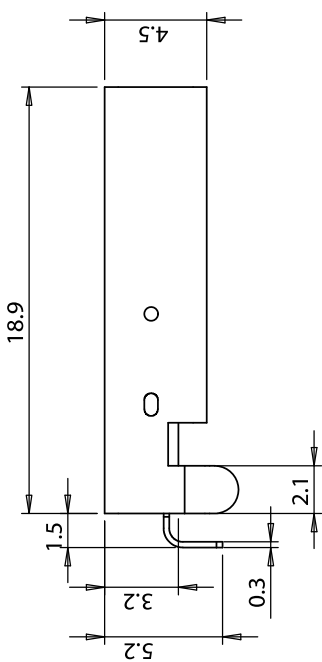
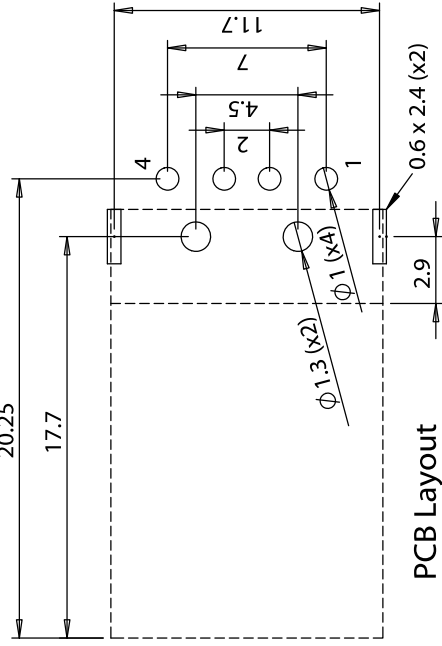
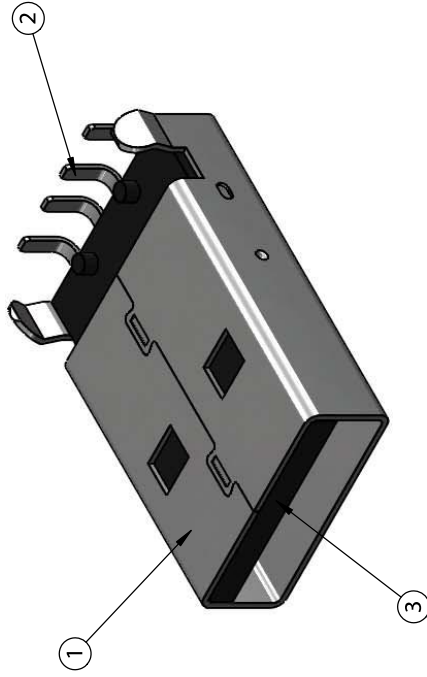


# USB A plug 90° PCB mount



Revision:	Date:	Description:	Prepared:	Notes:	Scale:	Sheet
A	09/28/2015	Initial release	<b>GL</b> <small>Digitally signed by GL Date: 2018.08.06 09:53:04 -0700</small>	RoHS compliant Function test: no open, no short circuit, no intermittent	3:1	1
A1	07/27/2018	Corrected operating temp range	<b>RS</b> <small>Digitally signed by RS Date: 2018.08.10 17:16:29 -0700</small>	Description: Connector, USB A plug, PCB mount, 90°, nickel shell, board lock, black insulator, tray	A	2
			Dimensions are in millimeters. Tolerances: X: ± 0.5 mm X.X: ± 0.3 mm X.XX: ± 0.05 mm			3
				Size: Part number: A 54-00009		4
				tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com		5
						1

# USB A plug 90° PCB mount



Pin plating detail

## Materials

1. Shell, 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, 100 MΩ minimum 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

Revision:	Date:	Description:	Prepared:	Notes:
A	09/28/2015	Initial release	GL Digitally signed by GL Date: 2018.08.06 09:53:19 -07'00'	RoHS compliant
A1	07/27/2018	Corrected operating temp range	Verified: RS Digitally signed by RS Date: 2018.08.10 17:16:14 -07'00'	Function test: no open, no short circuit, no intermittent
			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, 90°, nickel shell, board lock, black insulator, tray
			Size: Part number: A 54-00009	Scale: 3:1
				tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com
				Sheet 2 of 2