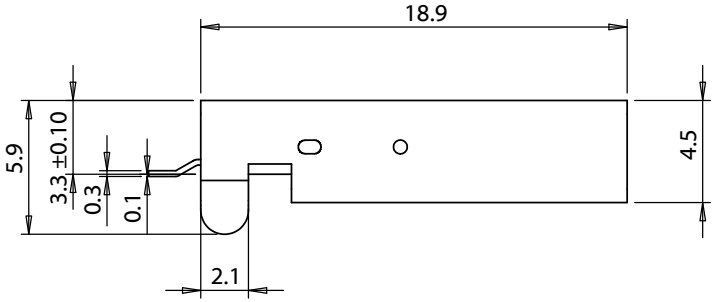
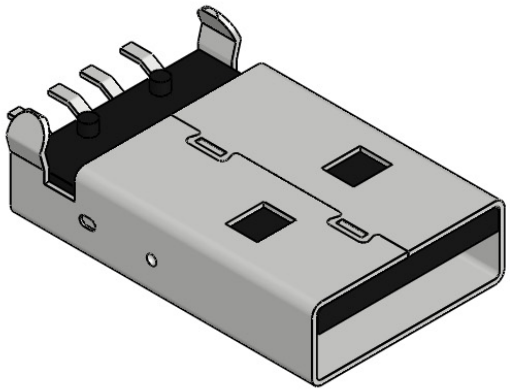
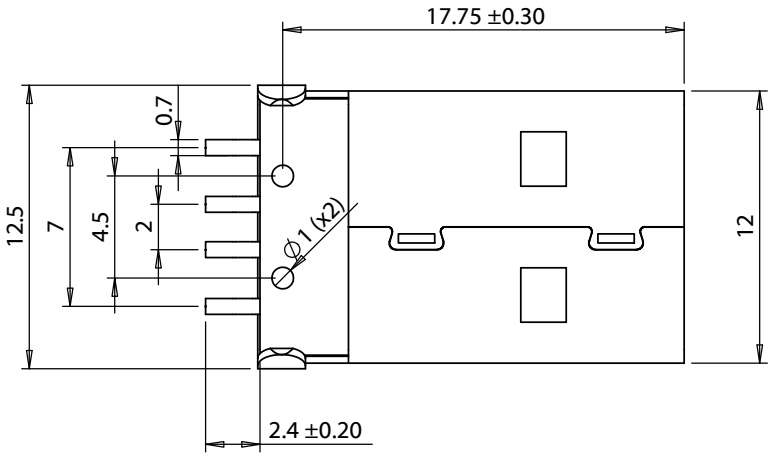
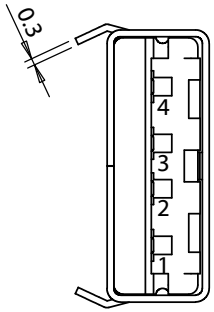
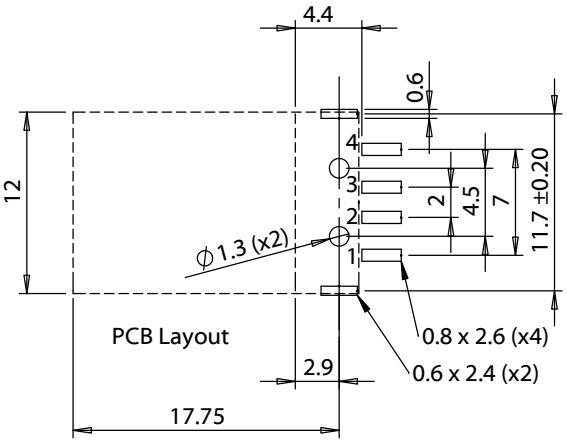
USB A plug 90° SMT mount











NOTES
RoHS and REACH compliant

TENSILITY
20802 Sockeye Place #130
Bend, OR 97701 USA
tel 541.323.3228 *fax* 541.323.4202
800 877.670.7118 www.tensility.com

DIMENSIONS ARE IN MILLIMETERS

TOLERANCES:
Up to 1.0: ± 0.1 mm
1.0 to 10.0: ± 0.2 mm
Over 10.0: ± 0.3 mm

DESCRIPTION:
Connector, USB A plug, SMT mount, 180°, nickel shell, board lock, black insulator

SIZE	PART NUMBER
A	54-00011

SCALE: 1:1 | SHEET 1 OF 2

5 4 3 2 1

USB A plug 90° SMT mount

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

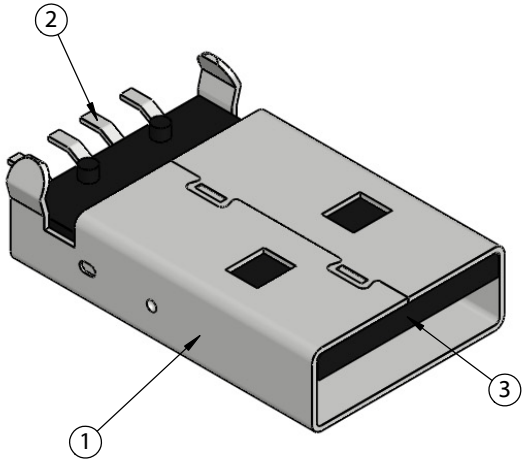
Electrical
Rated voltage: 30 Vdc
Rated current: 3 A
Dielectric strength: 1 min @ 500 Vac
Insulation resistance: 500 MΩ @ 500 Vdc
Contact resistance: 50 mΩ or less

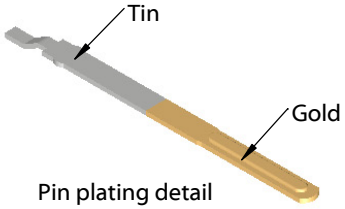
Mechanical
Insertion force: 3.5 kgf maximum
Withdrawal force: 1.0 kgf minimum
Durability: 1500 cycle minimum life; less than 100 mΩ contact resistance, minimum 100 MΩ insulation resistance
Terminal strength: 0.3 kgf in any direction without damage or looseness

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

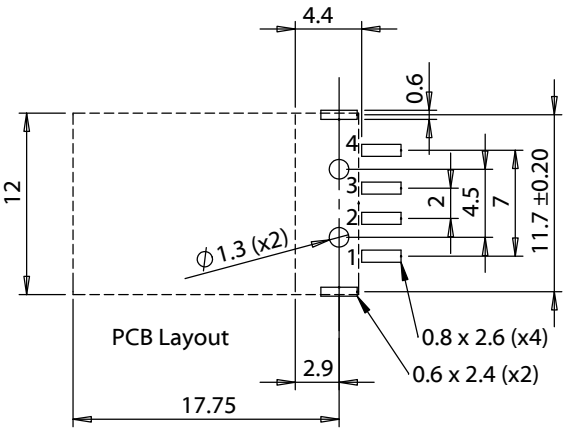
Environmental
Cold test: -25 ±3 °C for 48 hours without deformation
Heat test: 70 ±2 °C for 48 hours without deformation
Humidity test: 40 ±2 °C and humidity between 90 and 98 % for 48 hours without deformation

Operating range
-10 ~ 60 °C





Pin plating detail



PCB Layout

REVISION	DATE	DESCRIPTION
A	9/28/2015	Initial release

PREPARED: JM 2015.10.09 10:01:57 -07'00'

VERIFIED: GL 2015.10.09 12:00:07 -07'00'

DIMENSIONS ARE IN MILLIMETERS

TOLERANCES:
Up to 1.0: ± 0.1 mm
1.0 to 10.0: ± 0.2 mm
Over 10.0: ± 0.3 mm

NOTES
RoHS and REACH compliant

DESCRIPTION:
Connector, USB A plug, SMT mount, 180°, nickel shell, board lock, black insulator

TENSILITY
20802 Sockeye Place #130
Bend, OR 97701 USA
tel 541.323.3228 *fax* 541.323.4202
800 877.670.7118 www.tensility.com

SIZE: A
PART NUMBER: 54-00011
SCALE: 1:1
SHEET 2 OF 2

5 4 3 2 1