USB A jack 90° PCB side-mount

5.7

7.1

0.3

7.6

5.1

10.8

4 3 2 1

3.5
2.8
0.25
0.3

4.7 ±0.30

7.1 ±0.30

19.5

14.9
13.1
13.8

0.7

0.4   1.2
2   2
2

19.5

7.1

2

2

2

0.5x0.8 (x4)

5.7

1 2 3 4

5.4

11.6

Ø1.8 (x4)

PCB Layout

Revision:	Date:	Description:
A	09/04/2015	Initial release
A1	07/30/2018	Corrected operating temp range

Prepared:
GL
Digitally signed by GL
Date: 2018.08.10
11:05:12 -07'00'

Verified:
RS
Digitally signed by RS
Date: 2018.08.10
17:18:55 -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, PCB side-mount, 90°, nickel shell, board lock, black insulator, tray

TENSILITY

tel 1.541.323.3228   *800* 877.670.7118
fax 1.541.323.4202   *web* tensility.com

Size:	Part number:
A	54-00013

Scale: 2:1   Sheet 1 of 2

5   4   3   2   1

USB A jack 90° PCB side-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
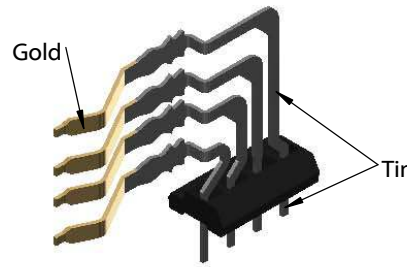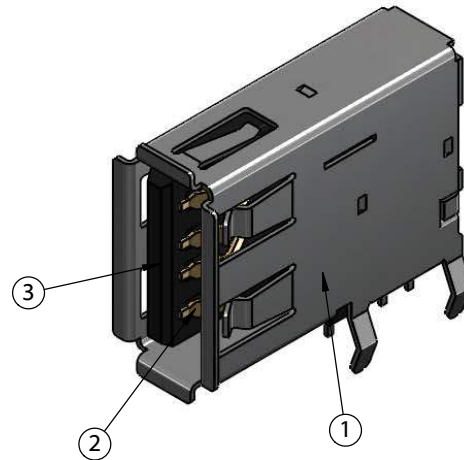   350 ±10 °C for 3 ±0.5 seconds

Environmental
Cold test: -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
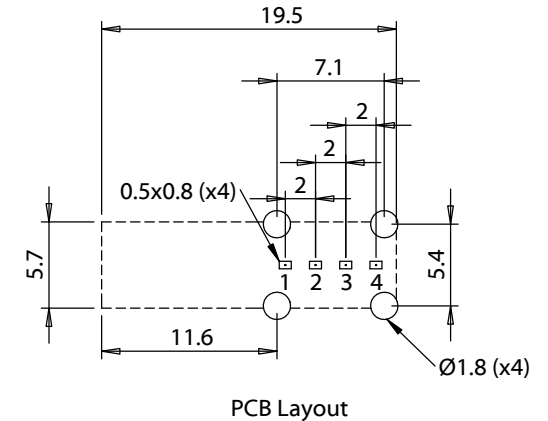   98 % for 48 hours without deformation

Operating range
-40 ~ 85 °C

Gold

Tin

Pin plating detail

19.5
7.1
2
2
0.5x0.8 (x4)
2
5.7
1 2 3 4
5.4
11.6
Ø1.8 (x4)

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