Ratings

Voltage: 30 V Current: 1.0 A

Operating Temperature Range

-25° to 85° C. relative humidity of 85% or less

Materials

1)Insulator: Nylon 46, black

(2)Pin: Phosphorus bronze, 5 µm gold and tin plated

(3)Shell: SPCC Steel, nickel plated

Electrical Requirements

Dielectric strength: 1 min @ 500 Vac Insulation resistance: 1000 MΩ @ 500 Vdc

Contact resistance: 30 mΩ or less

Mechanical Requirements

Insertion force: maximum of 3.5 kgf Withdrawal force: minimum of 1.0 kgf

Life cycle: 1500 mating cycles while maintaining 3.5 kgf min. insertion force, 1.0 kgf min. withdrawal force, less than 100 mΩ contact resistance, greater than 100 MΩ insulation resistance, and withstand 100 Vac for 1 minute.

Terminal strength: 0.3 kgf in any direction without damage

Soldering

Solderability: 75% minimum coverage when terminals dipped 2mm 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 1.6 mm for 10 seconds

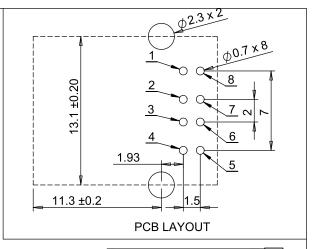
Solder iron durability: no deformation when exposed to 350 ±10 °C for 3 ±0.5 seconds

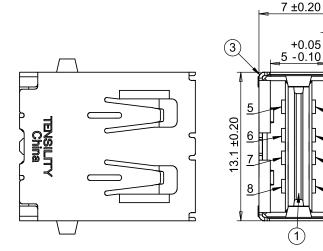
Environmental Requirements

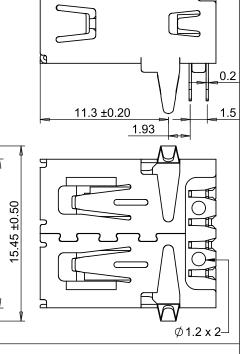
Cold test: -25 ±3 °C for 48 hours without deformation Heat test: 85 ±2 °C, relative humidity 45-85% for 48 hours

without deformation
Humidity test: 40 ±2 °C, relative humidity 90-98% for 48 hours without deformation









Revision:	Date:	Description:	Prep
А	11/6/2016	Initial release	DN
A1	11/22/2016	Included top view with markings	Veri GL
			Dim milli
			Tole X:
			X.X X X

Prepared:

Digitally signed by DN NC Date: 2016.11.23 10:45:21 -08'00'

Verified:

Digitally signed by GL Date: 2016.11.23 10:46:12 -08'00'

Dimensions are in millimeters. Tolerances:

± 0.5 mm $X.X: \pm 0.3 \text{ mm}$ X.XX: ± 0.05 mm Notes:

RoHS compliant

3

Function test: no open, no short circuit, no intermittent

Description:

Connector, USB A 2.0 jack, reversible insertion, nickel shell, PCB mount, 90°, thru hole, board lock

4.3 ±0.20

 3.3 ± 0.20

+0.05

0.8

q.

25

1.541.323.3228 fax 1.541.323.4202

800 877.670.7118 web tensility.com

Part number: Size: 54-00030

Scale: 3:1

Sheet 1 of 1