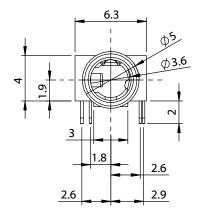
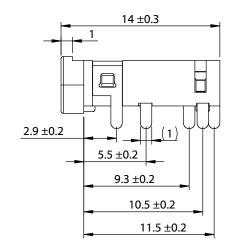
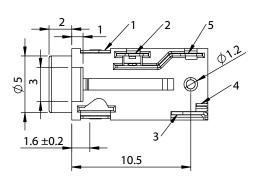


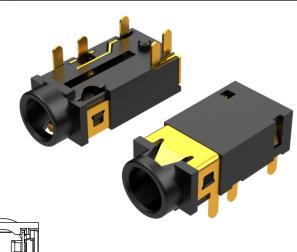
**Unplugged Schematic** 

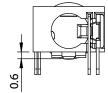
Plugged Schematic

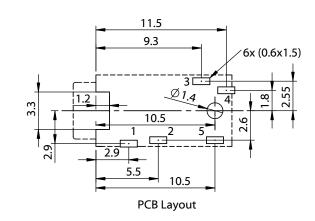












	_		_
Revision:	Date:	Description:	Prepared:
Α	1/11/22	Initial release	Digitally signed by Date: 2022.01.12 13:40:51 -08'00'
			Verified: AG Digitally signed by. Date: 2022.01.12 13:48:07-08'00'
			Dimensions are in millimeters.
			Tolerances: X: ± 0.5 mm X.X: ± 0.3 mm
		<u> </u>	X.XX: ± 0.05 mm

### Notes:

RoHS compliant

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

Description:

Connector, stereo jack, 3.5xL14 mm, thru hole, gold plated

# **TENSILITY**

tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com

Size: Part number: A 54-00299

Scale: 1:1

1

5

(

3

2

0 L

Sheet 1 of 2

### Ratings

Voltage: 48 V Current: 0.5 A

### **Operating Temperature Range**

-40 ~ 105 °C, relative humidity of 85% or less

### Materials

- (1) #1 contact: phosphor bronze, gold plating
- (2) #2 contact: phosphor bronze, gold plating
- (3) #3 contact: phosphor bronze, gold plating
- (4) #4 contact: phosphor bronze, gold plating
- (5) #5 contact: phosphor bronze, gold plating
- 6 Housing: PA9T, black, UL 94 V-0

### **Electrical Requirements**

Dielectric strength: 1 min @ 500 Vac Insulation resistance: 100 MΩ @ 250 Vdc Contact resistance: 30 mΩ or less at 1 KHz

### **Mechanical Requirements**

Insertion force: 0.3-2 kgf Withdrawal force: 0.3-2 kgf

Life cycle: 5000 mating cycles while maintaining 0.3 kgf min. insertion force, 0.2 kgf min. withdrawal force and less than 100 mΩ contact resistance

Terminal strength: 500 gf applied in one direction to the tip of the terminal for 1 second without mechanical or electrical damage

Solderability: 90% minimum coverage when terminals dipped 2mm in 260 ±5 °C solder bath for 3 ±0.5 seconds

Solder bath durability: no deformation when immersed in 255  $\pm$ 5 °C up to surface of the board 1.6 mm for 5 seconds or less

Solder iron durability: no deformation when exposed to 350  $\pm$ 10  $^{\circ}$ C for 5 seconds or less

### **Environmental Requirements**

Cold test:  $-40 \pm 2$  °C for 48 hours without deformation Heat test: 70 °C, relative humidity 70-85% for 96 hours without deformation

Humidity test:  $40 \pm 2$  °C, relative humidity 90-100% for 96 hours

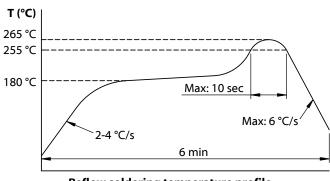
without deformation

Salt spray test: 35 ±2 °C, 5% NaCl mist for 24 hrs. Wash parts after test. No remarkable corrosion shall be present

### Packaging

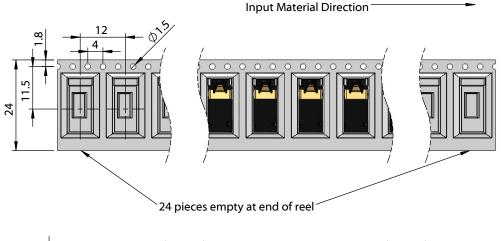
1000 pieces/ reel 12 reels/ box

Povision: Dato:



### Reflow soldering temperature profile

## **Packaging Detail**









Revision:	Date:	Description:	Prep
Α	1/11/22	Initial release	JD
			Veri
			AG
			Dim mill
			Tole
			X: X.X:
			X.XX

Doccrintion:

Prepared: Digitally signed by JD Date: 2022.01.12 13:41:03 -08'00'

erified:

Dimensions are in

millimeters. olerances:

± 0.3 mm K.X: ± 0.1 mm (.XX: ± 0.05 mm Notes:

**RoHS** compliant

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

Description:

Connector, stereo jack, 3.5xL14 mm, thru hole, gold plated

tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com

Part number: Size: 54-00299

Scale: 5:1

Sheet 2 of 2