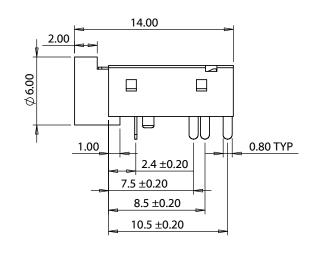
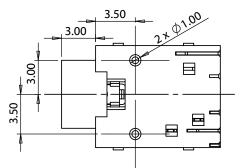
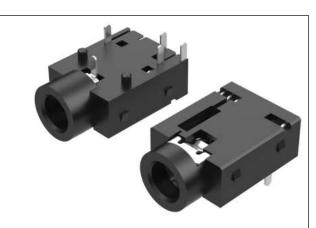
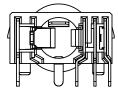


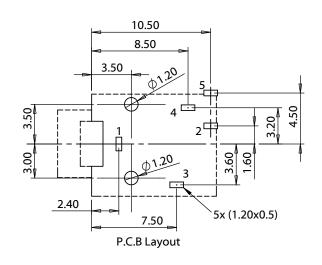
9.00 4.30 3.60 3.60 3.6 ±0.20











| Revision: | Date:     | Description:    | Prepared:   | Notes:   |         |                                      |         |     |  |
|-----------|-----------|-----------------|---|--|---------|--------------------------------------|---------|-----|--|
| Α         | 3/11/2020 | Initial release | AG Digitally signed by AG Date: 2020.04.14 11:34:59 -07'00' | RoHS compliant   |         | TF                                   | NSII    | ITY |  |
|           |           |                 | Verified:  AW  Date: 2020.04.14  11:56:14-07/00             | '  | uit, no | tel 1.541.323.3228 800 877.670.7118  |         |     |  |
|           |           |                 | Dimensions are in   |  |         | fax 1.541.323.4202 web tensility.com |         |     |  |
|           |           |                 | millimeters. Tolerances:                                    | Description:<br>Connector, 3C audio jack, 3.5xL14 mm, thru hole, silver plated |         |                                      | number: |     |  |
|           |           |                 | X: ± 0.5 mm<br>X.X: ± 0.3 mm<br>X.XX: ± 0.2 mm              |  |         | A 54-00175  Scale: 3:1 Sheet 1 of 2  |         |     |  |
| •         |           |                 |   | •  |         |                                      | 1       |     |  |

5 3 2

### Ratings

Voltage: 48 V Current: 1 A

### **Operating Temperature Range**

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

#### Materials

- 1) #1 contact: phosphor bronze, silver plating
- (2) #2 contact: phosphor bronze, silver plating
- (3) #3 contact: phosphor bronze, silver plating (4) #4 contact: phosphor bronze, silver plating
- (5) #5 contact: phosphor bronze, silver 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 m $\Omega$  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

#### Solderina

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

Solder bath durability: no deformation when immersed in 255 ±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 °C for 5 seconds or less

# **Environmental Requirements**

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

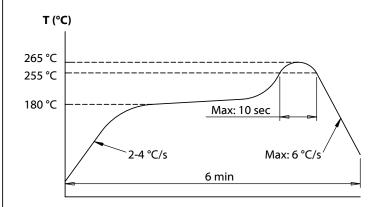
5

Humidity test:  $40 \pm 2$  °C, relative humidity 90-100% for 96 hours without deformation

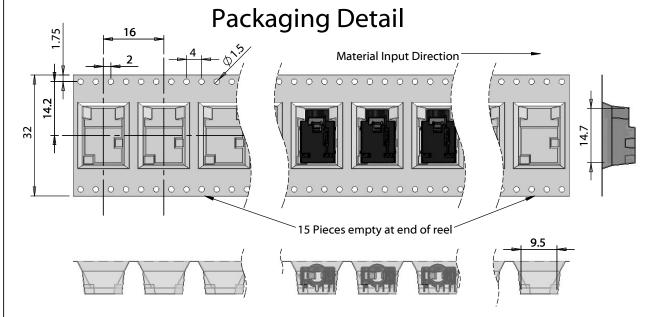
Salt spray test: 35 ±2 °C, 5% NaCl mist for 24 hrs. Wash parts after test. No remarkable corrosion shall be present

## **Packaging**

500 pieces/ reel 10 reels/box



## Reflow soldering temperature profile



| Revision: | Date:     | Description:    | Prepared:  | Notes:  |                               |   |             |              |  |
|-----------|-----------|-----------------|--|---|-------------------------------|---|-------------|--------------|--|
| А         | 3/11/2020 | Initial release | AG Digitally signed by AG Date: 2020.04.14 11:35:15 -07'00'  | RoHS compliant  |                               | F   | <b>NSII</b> | ITY          |  |
|           |           |                 | Verified: AW Digitally signed by AW Date: 2020.04.14 11:5629-07000  Dimensions are in millimeters. Tolerances: X: ± 0.5 mm | Function test: no open, no short circuit, no intermittent     |                               | tel 1.541.323.3228 800 877.670.7118<br>fax 1.541.323.4202 web tensility.com |             |              |  |
|           |           |                 |  | Description: Connector, 3C audio jack, 3.5xL14 mm, thru hole, | Size: Part number: A 54-00175 |   |             |              |  |
|           |           |                 | X.X: ± 0.3 mm<br>X.XX: ± 0.2 mm  | silver plated   |                               | 1:1   |             | Sheet 2 of 2 |  |

3