

Revision:	Date:	Description:	Prepared:	Notes:					
Α	5/17/2023	Initial release	Verified:	RoHS compliant				NSIL	.ITY
			verified:	Function test: no open, no short intermittent	circuit, no	tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com			
			Dimensions are in millimeters.	Description		,			
			Tolerances: X: ± 0.5 mm	Description: Connector, 4C audio jack, 3.5xL14 mm, thru hole, gold plated		Size: Part number: A 54-00346			
			X.X: ± 0.3 mm X.XX: ± 0.2 mm			Scale	: 3:1		Sheet 1 of 2

5 4 3 2

Ratings

Voltage: 48 V Current: 0.5 A

Operating Temperature Range

 $-40 \sim 105$ °C, relative humidity of 85% or less

Materials

- 1 #1 contact: bronze, 1u" gold-plating
- (2) #2 contact: bronze, 1µ" gold-plating
- (3) #3 contact: brass, 1µ" gold-plating (4) #4 contact: bronze, 1µ" gold-plating
- (5) Housing: PA9T, black, UL 94 V-0 (6) Tape: polyimide/silicone adhesive

Electrical Requirements

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

Mechanical Requirements

Insertion force: 0.3-2.2 kgf Withdrawal force: 0.3-2.2 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

Environmental Requirements

for 5 seconds or less

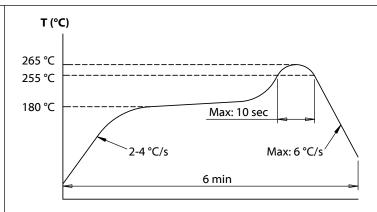
Cold test: -25 ± 3 °C for 48 hours without deformation Heat test: 70 °C, relative humidity 70-85% for 96 hours without deformation

Humidity test: 40 °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

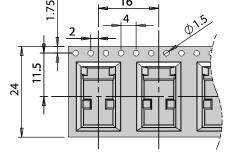
Packaging

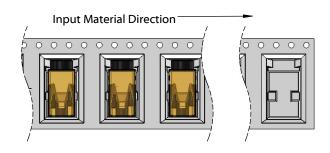
500 pieces/ reel 12 reels/box

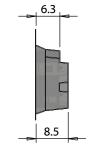


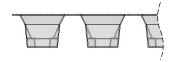
Reflow soldering temperature profile

Packaging Detail













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