

Ratings

Voltage: 48 V Current: 6.5 A

Operating Temperature Range

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

Materials

- (1) Housing: PA9T, black

- (2) Pin: C3604 brass, silver plated (3) Switch: C3604 brass, silver plated (4) Spring contact: C5191 phosphor bronze, silver plated
- (5) Retaining strap: C3604 brass, silver plated

Electrical Requirements

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

Mechanical Requirements

Insertion force: 0.3-3 kgf Withdrawal force: 0.3-3 kgf

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

Soldering

Solderability: 75% 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 260 ± 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 3 ±0.5 seconds

Environmental Requirements

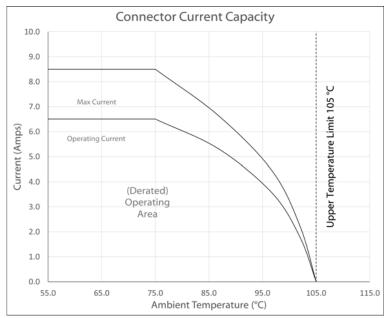
Cold test: -40 ± 3 °C for 48 hours without deformation Heat test: 85 °C, relative humidity 70-85% for 96 hours without deformation

Humidity test: 40 °C, relative humidity 90-95% for 48 hours without deformation

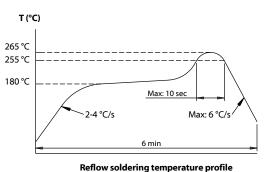
Salt spray test: 35 °C, relative humidity 90-95%, 5% NaCl mist for 24 hrs. Wash parts after test. Maintain mechanical requirements and a contact resistance of less than 80 m Ω .

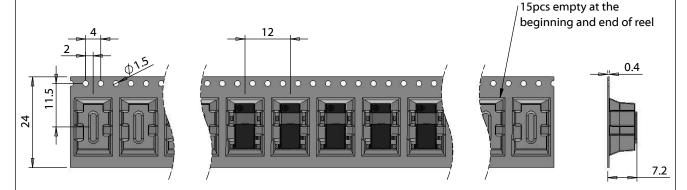
Packaging:

800 pieces/ reel 12 reels/ box



Testing based on IEC 60512-5-2. Max current curve generated with isolated test article under controlled environmental conditions, and does not take into account external factors such as housings, mating cables, or other circuitry. Operating current curve (derated by 20% of maximum values) accounts for external factors, and manufacturing variation.





Revision:	Date:	Description:	Prepared:	Notes:					
Α	6/17/2021	Initial release	Digitally signed by Date: 2021.06.17 15:16:13 -07'00'	RoHS compliant Function test: no open, no short circuit, no intermittent Description: Connector, dc jack 4.0x1.7 mm, PCB mount, 90°,		TENSILITY tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com			
			Verified: AG Digitally signed by A Date: 2021.06.17 17:						
			-			Size:	Size: Part number:		
						А 54-00289			
				silver plated, PA9T, SMT		Scale:	1:1		Sheet 2 of 2

5