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# Ratings

Maximum operating voltage: 48 V

Maximum operating current: 8 A (not mated under load)

### **Operating Temperature Range**

-40 ~ 130 °C, relative humidity of 85% or less

#### Materials

1)Insulator: LCP, black, UL94 V-0

(2)Spring contact: C5191 phosphor bronze, silver plated

(3) Switch contact: C3604 brass, silver plated

(4)Pin: zinc alloy, nickel plated

(5) Shell: C3604 brass, nickel plated

(6)Front plate: SUS301

7)Pin holder: LCP, UL94 V-0

## **Electrical Requirements**

Dielectric strength: 1 min @ 500 Vac Insulation resistance: 100 MΩ @ 250 Vdc

Contact resistance:  $30 \text{ m}\Omega$  or less

## **Mechanical Requirements**

Insertion force: 0.5-3 kgf Withdrawal force: 0.5-3 kgf

Life cycle: 5000 mating cycles while maintaining 30% initial values. withdrawal force and less than 100 m $\Omega$  contact resistance.

#### Soldering

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 265  $\pm$ 5  $^{\circ}$ C up to surface of the board 1.6 mm for 10 seconds or less

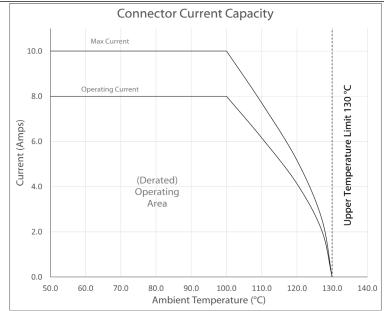
Solder iron durability: no deformation when exposed to 350  $\pm$ 10  $^{\circ}$ C for 5 ±0.5 seconds

**Environmental Requirements**Cold test: -40 ±2 °C for 48 hours without deformation Heat test: 85 °C for 48 hours without deformation Humidity test: 40 °C, relative humidity 90-95% for 48 hours without deformation

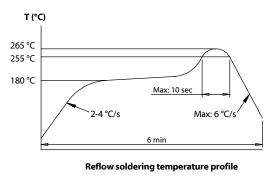
Salt spray test: 35 °C, relative humidity 90-95%, 5% NaCl mist for 24 hrs. Wash parts after test. Maintain mechanical requirements and a contact resistance of less than 80 m $\Omega$ .

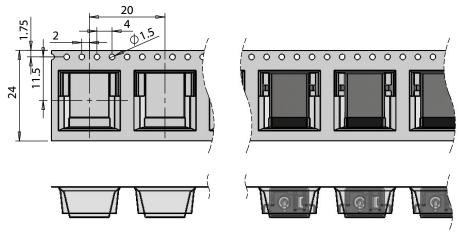
### Packaging

400 pieces/ reel 12 reels/ box



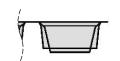
Testing based on IEC 60512-5-2. Max current curve generated with isolated test article under controlled environmental conditions, and does not take into account external factors such as housings, mating cables, or other circuitry. Operating current curve (derated by 20% of maximum values) accounts for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





beginning and end of the reel \ 000 0 0

20pcs empty at the



Revision:	Date:	Description:	Prepared
Α	7/23/2025	Initial release	
			Verified:

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Prepared: Notes: RoHS compliant

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

Description: Connector, dc jack, 5.5x2.5xL14.2 mm, thru hole, silver plated

tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com

Part number: Size: 54-00256

Scale: 1:1 Sheet 2 of 2

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