

# Ratings

Maximum operating voltage: 48 V Maximum operating current: 7.5 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 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 ±5 °C up to surface of the board 1.6 mm for 10 seconds or less Solder iron durability: no deformation when exposed to 350 ±10 °C

for 5  $\pm$  0.5 seconds

**Environmental Requirements** Cold test:  $-40 \pm 2$  °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



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

20

factors, and manufacturing variation.

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20pcs empty at the beginning and end of the reel





Revision:	Date:	Description:	Prepared:	Notes:						
A	10/1/2020	Preliminary		RoHS compliantFunction test: no open, no short circuit, no intermittentDescription: Connector, dc jack 5.5x2.1 mm, PCB mount, 180°, silver plated, LCP, board cut thru hole		tel 1.541.323.3228 800 877.670.7118   fax 1.541.323.4202 web tensility.com				
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