

Ratings

Voltage: 48 V Current: 0.5 A

Operating Temperature Range

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

Materials

- 1)#1 contact: phosphor bronze, gold plating
- 2) #2 contact: phosphor bronze, gold plating
- (3) #3 contact: phosphor bronze, gold plating
- (4)#4 contact: phosphor bronze, gold plating
- (5) #5 contact: phosphor bronze, gold plating
- 6 #6 contact: phosphor bronze, gold plating
- Housing: PA9T, black, UL 94 V-0

Electrical Requirements

Dielectric strength: 1 min @ 500 Vac Insulation resistance: 100 M Ω @ 250 Vdc Contact resistance: 30 m Ω 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 m Ω contact resistance
- Terminal strength: 500 gf applied in one direction to the tip of the terminal for 1 second without mechanical or electrical damage

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 255 \pm 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 ± 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
- Humidity test: 40 ± 2 °C, relative humidity 90-100% for 96 hours without deformation
- Salt spray test: 35 \pm 2 °C, 5% NaCl mist for 24 hrs. Wash parts after test. No remarkable corrosion shall be present

Description:

Initial release

Packaging Information

1000 connectors/reel 12 reels/box

Revision:

А

Date:

3/11/2020



Reflow soldering temperature profile

Packaging Detail



Scale: 1:1

2

Sheet 2 of 2

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X.XX: ± 0.2 mm

X.X: ± 0.3 mm

gold plated

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