Ratings

Voltage: 12 Vdc Current: 5 A

Operating Temperature Range

-10° to 60° C

Materials

- 1. Insulator: PBT. black
- Pin: copper alloy, nickel plated
 Shell: brass, nickel plated
- 4. Spring contact: stainless steel, nickel plated
- 5. Spring contact collar: copper alloy, nickel plated
- 7. Washer p/n 56-00001: cold rolled steel, nickel plated
- 8. Nut p/n 56-00000: brass, nickel plated

Electrical Requirements

Dielectric strength: 1 min @ 500 Vac Insulation resistance: 100 M Ω @ 500 Vdc Contact resistance: 50 m Ω or less

Mechanical Requirements

Insertion force: 0.3-3 kgf Withdrawal force: 0.2-3 kgf

Terminal strength: a static load of 150 gf shall be applied to the terminal for 15 seconds in any direction.

Life cycle: 5000 mating cycles while maintaining less than $100 \text{ m}\Omega$ contact resistance, $50M\Omega$ insulation resistance minimum, and dielectric strength of 500 Vac for 1 minute withstand voltage.

Soldering

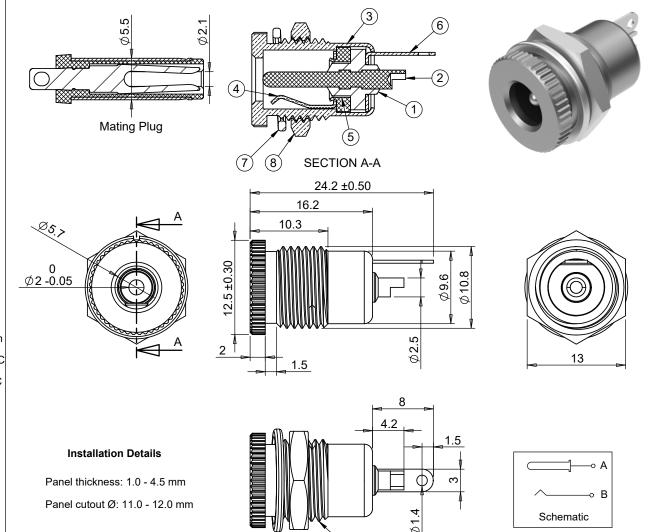
Solderability: 75% minimum coverage when terminals dipped 2mm in 245 ±5 °C solder bath for 3 ±0.5 seconds

Solder bath durability: no deformation when immersed in 255 ±5 °C bath for 5 seconds or less

Solder iron durability: no deformation when exposed to 350 ±10 °C for 3 ±0.5 seconds

Environmental RequirementsCold test: -25 ±3 °C for 48 hours without deformation Heat test: 70 ±2 °C, for 48 hours without deformation Humidity test: 40 ±2 °C, relative humidity 90-95% for 48 hours without deformation

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M11 x 1.0

Revision:	Date:	Description:	Prepared:	Notes:				
Α	8/5/2016	Initial release		RoHS and REACH compliant			Ηľ	VSI
A1	1/4/2017	Updated materials list	Verified:	Function test: no open, no short circuit, no intermittent		tel 1.541.323.3228 fax 1.541.323.4202		
		Dimensions are in millimeters. Tolerances: X: ± 0.5 mm X.X: ± 0.3 mm X.XX: ± 0.05 mm	millimeters.					
				Description:		Size:		
			Connector, dc jack, 5.5x2.1xL24.2 mm, panel		Α	54-00063		
				mount, threaded, nut and washer, brass, nickel		Scale	: 2:1	00
		4						

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