

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



# Contact us

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### Ratings

Voltage: 12 Vdc Current: 5 A

### **Operating Temperature Range**

-10° to 60° C

#### Materials

- 1. Insulator: PBT. black
- 2. Pin: copper alloy, nickel plated
- 3. Shell: brass, nickel plated
- 4. Spring contact: stainless steel, nickel plated
- 5. Spring contact collar: copper alloy, nickel plated
- 6. Solder tab: brass, 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 MΩ @ 500 Vdc Contact resistance: 50 mΩ 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.

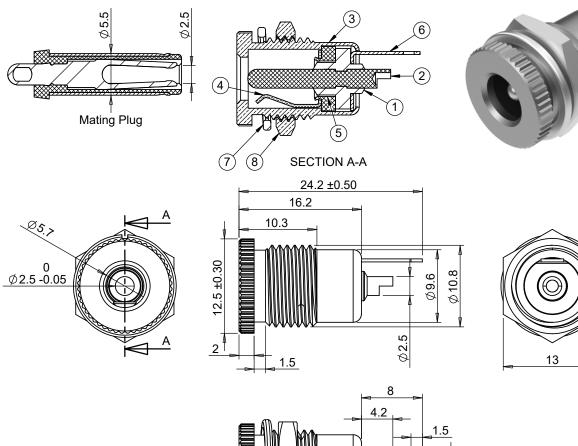
### Soldering

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

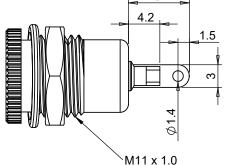
Environmental Requirements
Cold test: -25 ±3 °C for 48 hours without deformation Heat test: 70 ±2 °C, for 48 hours without deformation Humidity test: 40 ±2 °C, relative humidity 90-95% for 48 hours without deformation

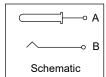


#### Installation Details

Panel thickness: 1.0 - 4.5 mm

Panel cutout Ø: 11.0 - 12.0 mm





Revision:	Date:	Description:	Prepared:
Α	8/5/2016	Initial release	DN Digitally signed by DN Date: 2017.01.04 10:34:09 -08'00'
A1	1/4/2017	Updated materials list	Verified: GL  Digitally signed by 0 Date: 2017.01.04 11:27:04-08'00'
			Dimensions are in millimeters.
			Tolerances: X: ± 0.5 mm
			X.X: ± 0.3 mm X.XX: ± 0.05 mm

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#### Prepared: Notes: Digitally signed by DN

Digitally signed by GL Date: 2017.01.04 11:27:04 -08'00'

Date: 2017.01.04 10:34:09 -08'00' RoHS and REACH compliant

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

### Description:

Connector, dc jack, 5.5x2.5xL24.2 mm, panel mount, threaded, nut and washer, brass, nickel

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Size: Part number: 54-00064

Scale: 2:1

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