

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!



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#### Materials

- 1. Shell, C3604 brass, 2 μm nickel plated
- 2. Spring contact, BeCu, 2 µm nickel plated
- 3. Pin, C3604 brass, 2 µm nickel plated
- 4. Insulator, POM, black

#### **Electrical requirements**

Dielectric strength: 1 min @ 500 Vac Insulation resistance: 100 M $\Omega$  @ 500 Vdc Contact resistance: 30 m $\Omega$  or less

Rated voltage: 24 Vdc Rated current: 5 A

### **Mechanical requirements**

Insertion force: 0.3-2.5 kgf Withdrawal force: 0.3-2.5 kgf

Durability: 5000 mating cycles while maintaining; min 0.3 kgf insertion force, min 0.2 kgf withdrawal force and less than 100 m $\Omega$  contact resistance.

#### **Environmental requirements**

Damp test: 40 °C,  $\dot{R}H$  90-100% for 96 hrs. Cool to ambient and recover for 2 hours. Maintain dielectric strength of 500 Vac for 1 min, insulation resistance of 50 M $\Omega$  @ 500 Vdc minimum and a contact resistance of 100 m $\Omega$  or less.

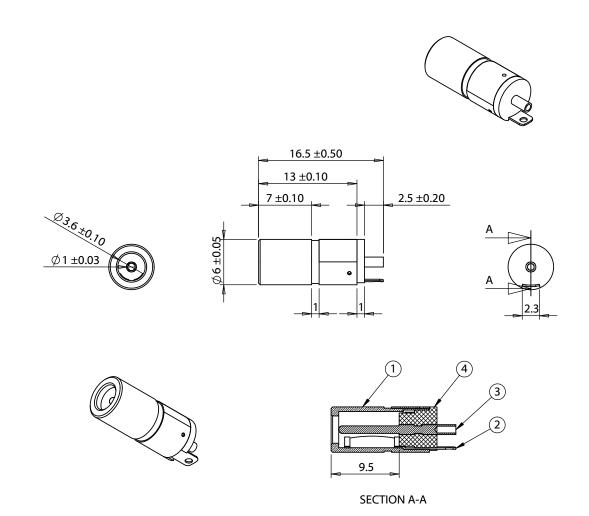
Dry test: 70 °C, RH 70-85% for 96 hrs. Cool to ambient and recover for 2 hours. Maintain insulation resistance of 50 M $\Omega$  @ 500 Vdc minimum and a contact resistance of 100 m $\Omega$  or less.

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

## Operating range

-25 to 70 °C, relative humidity of 85% or less

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Revision:	Date:	Description:	Prepared:	Notes:					
Α	10/19/2009	Initial release	GL 2016.03.31 16:43:39 -07'00'	RoHS and REACH compliant	П	Eľ	NSIL	ITY	
A1	12/8/2011	Updated measurements to match standards	Verified:  LA  Digitally signed by IA  OR cont.A, offendilly, ormalicipalization, orma	Function test: no open, no short circuit, no intermittent	1	tel 1.541.323.3228 800 877.670.7118			
A2	3/14/2013	Updated spec format	Dimensions are in			fax 1.541.323.4202 web tensility.com			
			millimeters. Tolerances:	Description:	Size:	ze: Part number:			
			X: <u>±</u> 0.5 mm	Connector, dc jack, 3.5x1.1xL16.5 mm, molding	Α	50-00045			
			X.X: ± 0.3 mm X.XX: ± 0.05 mm	style		2:1		Sheet 1 of 1	

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