

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

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









### MITI-3V1 7mm Ultra-Miniature Reed Switch





#### **Description**

The MITI-3V1 ultra-miniature reed switch is a normally open switch with a 7.00mm long x 1.80mm diameter (0.276" x 0.071") glass envelope, which is capable of switching 170Vdc at 10W. It has a high insulation resistance of 1012 ohms minimum and low contact resistance of less than 150 milliohms.

The MITI-3V1 is also available in a surface mount version, that is, MISM-3V1.

#### **Features**

- Ultra-miniature, normally open switch
- Capable of switching 170Vdc or 0.25A at up to 10W
- Available sensitivity range 6-10 AT

#### **Agency Approvals**

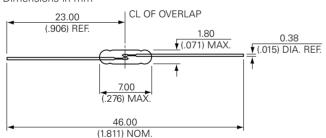
Agency	Agency File Number Ampere-Turns Range	
c <b>PU</b> °us	E47258 E471070	6-10 AT
€x>	DEMKO 14 ATEX 1393U	6-10 AT

#### **Benefits**

- Hermetically sealed switch contacts are not affected by and have no effect on their external environment
- Very low space requirement
- Zero operating power required for contact closure
- Excellent for switching microcontroller logic level loads

#### **Dimensions**

Dimensions in mm



#### **Applications**

- · Reed relays
- Security

- Metering
- · Mobile phones

## **Switch Type**

Contact Form	A (SPST-NO)	
Materials	Body: Glass Leads: Tin Plated Nickel Iron	

Note: SPST-NO = Single-pole, single-throw, normally open

#### **Electrical Ratings**

Contact Rating <sup>1</sup>		Watt - max.	10
Voltage <sup>3</sup>	Switching <sup>2</sup>	Vdc - max.	170
	Breakdown <sup>4</sup>	Vdc - min.	175
Current <sup>3</sup>	Switching <sup>2</sup>	A - max.	0.25
	Carry	A - max.	0.5
Resistance	Contact, Initial Insulation	$\Omega$ - max. $\Omega$ - min.	0.15 10 <sup>12</sup>
Capacitance	Contact	pF - typ.	0.3
Temperature	Operating	°C	-40 to +125
	Storage ⁵	°C	-65 to +125

- 1. Contact rating Product of the switching voltage and current should never exceed the wattage rating. Contact Littelfuse for additional load/life information.
- 2. When switching inductive and/or capacitive loads, the effects of transient voltages and/or currents should be considered. Refer to Application Notes AN108A and AN107 for details.
- 3. Electrical Load Life Expectancy Contact Littelfuse with voltage, current values along with type of load.
- 4. Breakdown Voltage per MIL-STD-202, Method 301.
- 5. Storage Temperature Long time exposure at elevated temperature may degrade solderability of the leads.

© 2015 Littelfuse littelfuse.com



# MITI-3V1 7mm Ultra-Miniature Reed Switch

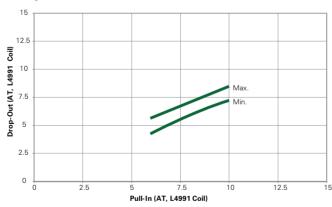
#### **Product Characteristics**

Operating Characteristics						
Operate Time <sup>1</sup>		0.45ms - max.				
Release Time <sup>1</sup>		0.2ms - max.				
Shock <sup>2</sup>	11ms 1/2 sine wave	150G - max.				
Vibration <sup>2</sup>	50-2000 Hertz	30G - max.				
Resonant Frequency		18.0kHz - typ.				
Magnetic Characteristics						
Pull-In Range <sup>3</sup>	Ampere Turns	6-10				
Rating Sensitivity <sup>4</sup>	Ampere Turns	10				
Test Coil		L4991				

#### Notes:

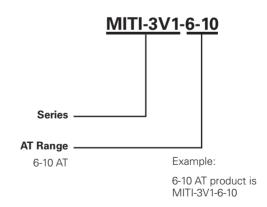
- 1. Operate (including bounce)/Release Time per EIA/NARM RS-421-A, diode suppressed coil (Coil II).
- 2. Shock and Vibration per EIA/NARM RS-421-A and MIL-STD-202.
- 3. Pull-In Range Contact Littelfuse for narrower AT ranges available.
- 4. Rating Sensitivity The value at which contact ratings and operating characteristics are determined. Derating may be required below this value.
- 5. Custom modifications of forming and/or cutting of reed switches are available. Please contact Littelfuse.

#### **Drop Out vs. Pull-In Chart**



Note: The chart represents the range of Drop-Out, minimum to maximum for a given

#### **Part Numbering System**



#### **Additional Information**







Resources



#### **Packaging**

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Taping Width
Bulk	Bulk	2000	N/A	N/A