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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



MISM-3V1 7mm Surface Mount Reed Switch



Description

The MISM-3V1 surface mount reed switch is a sub-miniature, normally open switch with a 7mm long x 1.8mm diameter (0.276" x 0.071") glass envelope, capable of switching up to 0.25 Amps.

This reed switch is a surface mount version of the MITI-3V1. It has a high insulation resistance of 10^{12} Ohms minimum and a contact resistance of less than 100 milliohms.

Features

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

Agency Approvals

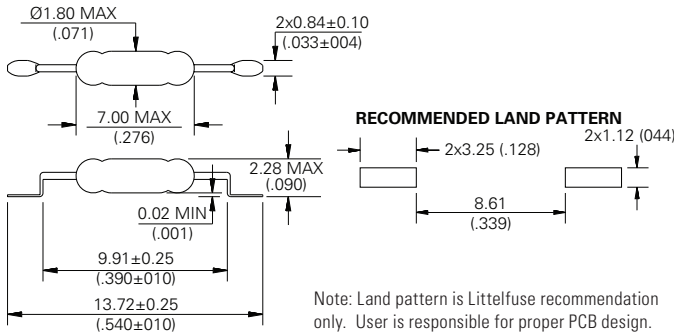
Agency	Agency File Number	Ampere-Turns Range
	E47258 E471070	6-10AT
	DEMKO 14 ATEX 1393U	6-10 AT

Benefits

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

Dimensions

Dimensions in mm



Applications

- Position Sensing
- Level Sensing
- Meter Equipment
- Security
- Office Equipment

Switch Type

Contact Form	A (SPST-NO)
Materials	Body: Glass Leads: Tin-plated Ni-Fe wire

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

Electrical Ratings

Contact Rating ¹		W/VA - max.	10
Voltage ³	Switching ²	Vdc - max.	170
	Breakdown ⁴	Vac - max.	120
		Vdc - min.	175
Current ³	Switching ²	Adc - max.	0.25
	Carry	Aac - max.	0.18
		Adc - max.	0.50
Resistance	Contact, Initial Insulation	Ω - max.	0.150
		Ω - min.	10^{12}
Capacitance	Contact	pF - typ.	0.3
Temperature	Operating Storage ⁵	$^{\circ}\text{C}$	-40 to +125
		$^{\circ}\text{C}$	-65 to +125

Notes:

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.

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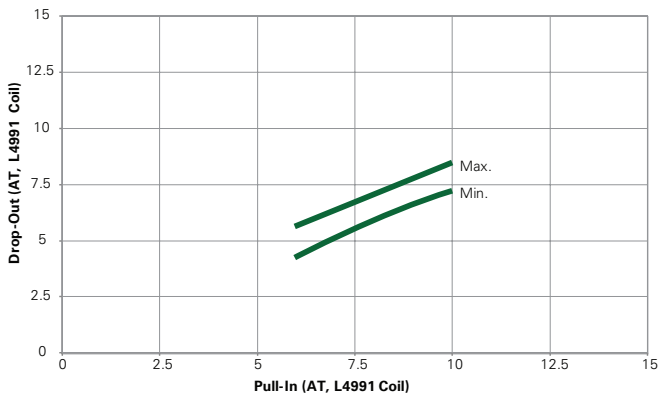
Product Characteristics

Operating Characteristics		
Operate Time ¹		0.45ms - max.
Release Time ¹		0.20ms - max.
Shock ²	11ms 1/2 sine wave	150G - max.
Vibration ²	50-2000 Hertz	30G - max.
Resonant Frequency		18.0kHz - typ.
Magnetic Characteristics		
Pull-In Range ³	Ampere Turns	6-10
Rating Sensitivity ⁴	Ampere Turns	10
Test Coil		L4991

Notes:

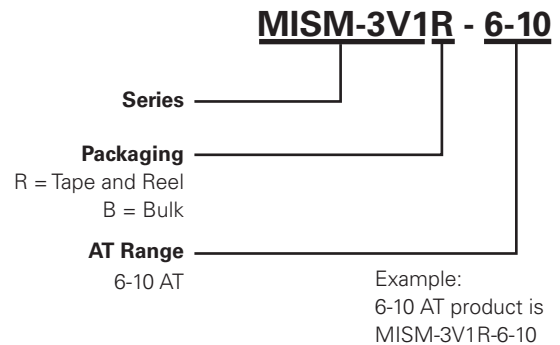
- Operate (including bounce)/Release Time - per EIA/NARM RS-421-A, diode suppressed coil (Coil II).
- Shock and Vibration - per EIA/NARM RS-421-A and MIL-STD-202.
- Pull-In Range - Contact Littelfuse for narrower AT ranges available. These AT values are the before modification AT of the MITI-3V1.
- Rating Sensitivity - The value at which contact ratings and operating characteristics are determined. Derating may be required below this value.

Drop-Out vs. Pull In Chart



Note: Chart represents the range of Drop-Out, min to max for a given Pull-In value.

Part Numbering System



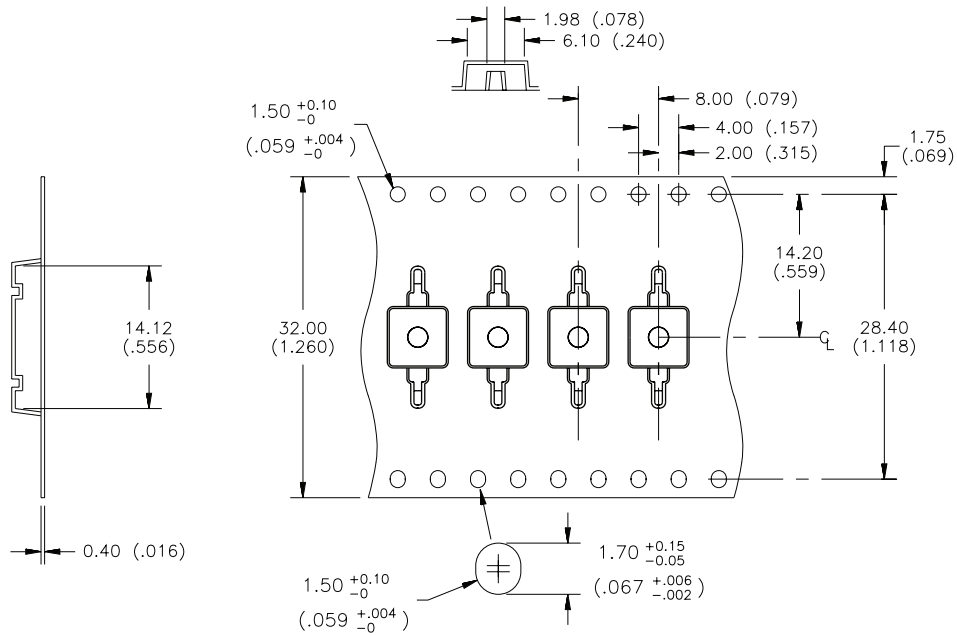
Note: This AT value is the before-modification value of the bare reed switch.

Packaging

Packaging Option	Packaging Specification	Quantity	Quantity and Packaging Code	Taping Width
Tape and Reel	EIA-RS-481-1	3000	R	32mm

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TAPE DIMENSIONS mm (inch)



REEL DIMENSIONS mm (inch)

