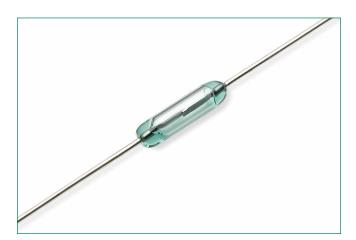


Axial Lead Reed Switches

Low Power > MITI-7

MITI-7 7mm Ultra-Miniature Reed Switch



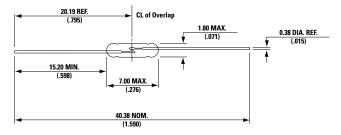
Agency Approvals

Agency	Agency File Number	Ampere-Turns Range			
c RL us	E47258	6-20 AT			

Note: Contact Littelfuse for specific agency approval ratings.

Dimensions

Dimensions in mm



Electrical Ratings

Contact Rating 1 Watt - max. 10 Switching ² Vdc - max. 170 Voltage ³ 120 Vac - max. Breakdown⁴ Vdc - min. 175 Switching ² Adc - max. 0.25 Current ³ 0.18 Aac - max. Carry Adc - max. 0.50 Contact, Initial Ω - max. 0.20 Resistance Insulation Ω - min. 10⁹ Capacitance Contact pF - typ. 0.3 °C °C -40 to +125 Operating Temperature Storage ⁵ -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.

Electrical Load Life Expectancy - Contact Littelfuse with voltage, current values along with type of load.
Breakdown Voltage - per MIL-STD-202, Method 301.

5. Storage Temperature - Long time exposure at elevated temperature may degrade solderability of the leads.

Description

The MITI-7 ultra-miniature reed switch is a normally open switch with a 7mm x 1.8mm (0.276" x 0.071") glass envelope, which is capable of switching 170Vdc at 10W. It has a sensitivity range of 6-20 AT. It has a high insulation resistance of 10⁹ ohms minimum and low contact resistance of less than 150 milliohms. The MITI-7 is also available in a surface mount version, that is, MISM-7.

Features

- Ultra-miniature, normally open switch
- · Capable of switching 170Vdc or 0.25A at up to 10W

Benefits

- Hermetically sealed switch contacts are not affected by and have no effect on their external environment
- Very low space requirement

Applications

- Position Sensing
- Security
- Meter Equipment
- Industrial Controls

contact closure

RoHS Compliant

- Office Equipment
- Telecoms

Switch Type

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

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



Available sensitivity range 6-20 AT

· Zero operating power required for

· Excellent for switching micro-

controller logic level loads



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MITI-7 7mm Ultra-Miniature Reed Switch

Product Characteristics

Operating Characteristics						
Operate Time ¹	-	0.5ms - max.				
Release Time ¹	-	0.2ms - max.				
Shock ²	11ms 1/2 sine wave	100G - max.				
Vibration ²	50-2000 Hertz	30G - max.				
Resonant Frequency	-	10kHz - typ.				

Magnetic Characteristics

Pull-In Range ³	Ampere Turns	6-20		
Rating Sensitivity ⁴	Ampere Turns	10		
Test Coil	-	L4991		

Notes:

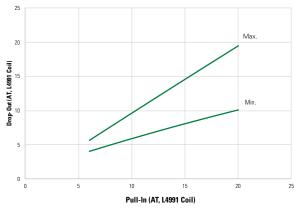
1. Operate (including bounce)/Release Time - per EIA/NARM RS-421-A, diode suppressed coil (Coil I).

Shock and Vibration - per EIA/NARM RS-421-A and MIL-STD-202.
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.

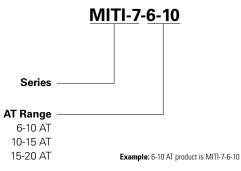
5. Custom modifications of forming and/or cutting of reed switches are available. Please contact Littelfuse.

Drop-Out vs. Pull-In Chart



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

Part Numbering System



Packaging

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

Disclaimer Notice - Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability of and test each product selected for their own applications. Littelfuse products are not designed for, and may not be used in, all applications. Read complete Disclaimer Notice at www.littelfuse.com/disclaimer-electronics.