

MVSR-20 19.7mm Reed Switch

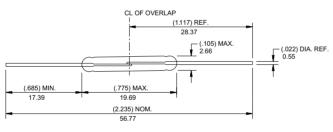


Agency Approvals			
Agency	Agency File Number	Ampere-Turns Range	
c FN us	E67006	0.125A - 4A	

Note: Contact Littelfuse for specific agency approval ratings.

Dimensions

Dimensions in mm (inch)



Description

The MVSR-20 reed switch is a miniature, normally open switch with a 19.69mm long x 2.66mm diameter (0.775" x 0.105") glass envelope, capable of high voltage switching of up to 1kVdc at 1mA. It has high insulation resistance of 10^{12} ohms minimum and contact resistance less than 100 milli-ohms.

Features

- Miniature normally open switch
- Capable of switching 1000Vdc at 1mA or 0.5A up to 10W
- Minimum voltage breakdown
 2000 Vdc

RoHS C . US

 Available sensitivity range 17-38 AT

Benefits

- Hermetically sealed switch contacts are not affected by and have no effect on their external environment
- Zero operating power required for contact closure

Applications

- Reed relays (particularly suitable for high voltage breakdown applications)
- Security

- Limit switching
- Telecoms line switching
- Industrial 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.	1000
	Breakdown ⁴	Vac - max.	265
	Vdc - min.	Vdc - min.	2000
Current ³	Switching ²	Adc - max.	0.50
	Carry	Aac - max.	0.35
	Carry	Adc - max.	1.30
Resistance	Contact, Initial Insulation	Ω - max.	
		Ω - min.	65V
Capacitance	Contact	pF - typ.	0.2
Temperature	Operating	- °C	75 to 195
	Storage ⁵		-75 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.

Axial Lead Reed Switches

High Voltage > MVSR-20

Product Characteristics

Operating Characteristics		
Operate Time 1	-	0.75ms - max.
Release Time ¹	-	0.30ms - max.
Shock ²	11ms 1/2 sine wave	100G - max.
Vibration ²	50-2000 Hertz	30G - max.
Resonant Frequency	-	3.2kHz - typ.

Magnetic Characteristics		
Pull-In Range ³	Ampere Turns	17-38
Rating Sensitivity ⁴	Ampere Turns	35
Test Coil	-	L4989

Notes:

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

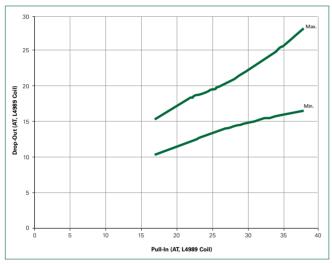
2. Shock and Vibration - per EIA/NARM RS-421-A and MIL-STD-202.

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.

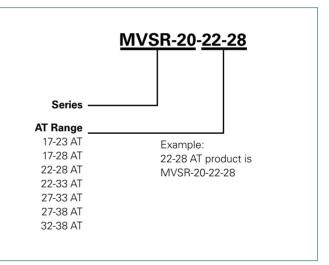
5. Custom modifications of forming and/or cutting of reed switches are available. Please contact Littelfuse.

Drop-Out vs. Pull-In Chart



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

Part Numbering System



Note: These AT values are the before-modification values of the bare reed switch

Packaging				
Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Taping Width
Bulk	Bulk	1000	-	-

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