

MDSR-7 12.7mm Sub-miniature Reed Switch





Agency Approvals

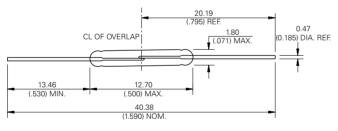
Agency	Agency File Number	Ampere-Turns Range
c AL us	E47258 E471070	10-25 AT

Note: Contact Littelfuse for specific agency approval ratings.

Dimensions

Dimensions in mm (inch)

Electrical Ratings



Description

The MDSR-7 Reed Switch is a sub-miniature, normally open switch with a 12.70mm long x 1.80mm diameter (0.500" x 0.071") glass envelope, capable of switching 200Vdc at 10W. It has high insulation resistance of 10^{12} ohms minimum and low contact resistance of less than 100 milli-ohms.

· Available sensitivity range

· Zero operating power required

 Excellent for switching microcontroller logic level loads

10-25 AT

for contact

Limit SwitchingOffice Equipment

Features

- Sub-miniature normally open switch
- Capable of switching 200V or 0.5A at up to 10W

Benefits

- Hermetically sealed switch contacts are not affected by and have no effect on their external environment
- Low, stable contact resistance

Applications

- Reed Relays (particularly suited
- to ATE type applications)
- Security Systems

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

Contact Rating 1		W/VA - max.	10
Voltage ³	Switching ² Breakdown ⁴	Vdc - max. Vac - max. Vdc - min.	200 140 250
Current ³	Switching ² Carry	Adc - max. Aac - max. Adc - max.	0.5 0.35 0.80
Resistance	Contact, Initial Insulation	Ω - max. Ω - min.	0.100 10 ¹²
Capacitance	Contact	pF - typ.	0.3
Temperature	Operating Storage ⁵	°C °C	-40 to +125 -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		0.6ms - 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		5.5kHz - typ.		
Magnetic Characteristics				
Pull-In Range ³	Ampere Turns	10-25		
Rating Sensitivity ⁴	Ampere Turns	20		
Test Coil		L4989		

Notes:

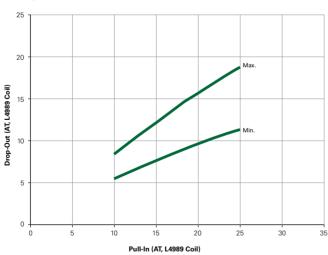
1. Operate (including bounce)/Release Time - per EIA/NARM RS-421-A, diode suppressed coil (Coil II).

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.

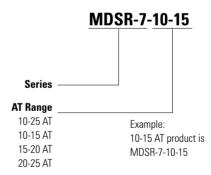
4. Rating Sensitivity - The value at which contact ratings and operating characteristics are determined. Derating may be required below this value.

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



Drop-Out vs. Pull-In Chart

Part Numbering System



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

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

Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Taping Width
Bulk	Bulk	1000	N/A	N/A

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