

MDSR-10 10.2mm Sub-miniature Reed Switch



Description

The MDSR-10 Reed Switch is a sub-miniature, normally open switch with a 10.16mm long x 1.80mm diameter (0.400" x 0.071") glass envelope, capable of switching 200Vdc at 10W. It has high insulation resistance of 10¹⁰ ohms minimum and low contact resistance of less than 120 milli-ohms. This reed switch is also available in a surface mount version, MDSM-10.

Features

- Sub-miniature normally open switch
- Capable of switching 200Vdc or 0.5A at up to 10W
- 8.9kV Ohm/turn insulation resistance
- Available sensitivity range 10-25 AT

Benefits

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

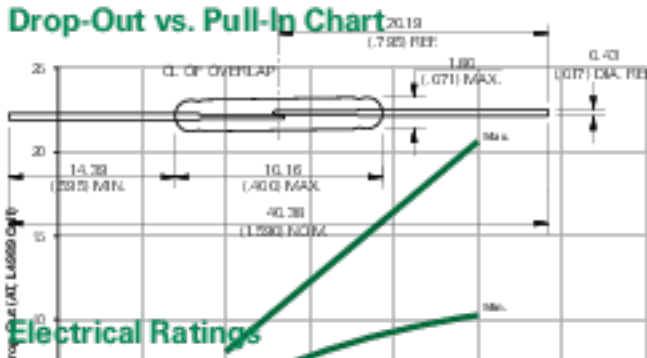
Magnetic Characteristics Agency Approvals

Agency	Agency File Number	Ampere-Turns Range
Telcordia	E47258 E471070	10-25 AT

- Note:** Contact Littelfuse for specific agency approval ratings.
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. The values shown below this value are minimum values.

Dimensions

Dimensions in mm (inch)



Electrical Ratings

Parameter	Rating	WVA - max.	10
Contact Rating ¹			
Voltage ²	Switching ²	Vdc - max.	200
		Vac - max.	140
	Breakdown ⁴	Vdc - min.	250
Current ³	Switching ²	Adc - max.	0.50
		Aac - max.	0.35
	Carry	Adc - max.	1.00
Resistance	Contact, Initial	Ω - max.	0.120
	Insulation	Ω - min.	10 ¹⁰
Capacitance	Contact	pF - typ	0.2
Temperature		°C	-40 to +125
Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code
			Tagging Width

- Notes:**
1. Contact rating product of the switching voltage and current should never exceed power 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.

Applications

- Reed Relays (particularly suited to ATE-type applications)
- Security Systems
- Limit Switching
- Office Equipments

Switch Type

MDSR-10-10-15

Contact Form	A (SPST-NO)
Materials	Series: Leads: Tin-plated Ni-Fe wire
Note: SPST-NO: Single pole, single-throw, normally open	
AT Range	10-25 AT 10-15 AT 15-20 AT
Example:	10-15 AT product is MDSR-10-10-15