

MDRR-DT 14.7mm Miniature Changeover Reed Switch







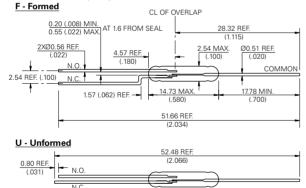
Agency Approvals

Agency	Agency File Number	Ampere-Turns Range
c FW us	E47258 E471070	10-30 AT

Note: Contact Littelfuse for specific agency approval ratings.

Dimensions

Dimensions in mm (inch)



Description

The MDRR-DT Reed Switch is a miniature changeover switch with a 14.73mm long x 2.54mm diameter (0.580" x 0.100") glass envelope, capable of switching 175Vdc at 5W. It has insulation resistance of 109 ohms minimum, and contact resistance less than 100 milli-ohms. The MDRR-DT is available in surface mount version, that is, MDSM-DT.

Features

- Miniature SPDT changeover switch
- · Capable of switching 175Vdc or 0.25A at up to 5W
- Available sensitivity range 10-30 AT

Benefits

- · Hermetically sealed switch contacts are not affected by and have no effect on their external environment
- · Can be used as changeover or normally closed contact
- · Zero operating power required for contact closure
- · Excellent for switching microcontroller logic level loads

Applications

- Position Sensing
- Reed Relays
- · Office Equipments
- Home Appliances Security

Switch Type

Industrial Controls

Contact Form	C (SPDT-CO)
Materials	Body: Glass Leads: Tin-plated Ni-Fe wire

Note: SPDT-CO = Single-Pole, Double-Throw, Change Over

Electrical Ratings

Contact Rating ¹		W/VA - max.	5
Voltage ³	Switching ² Breakdown ⁴	Vdc - max. Vac - max. Vdc - min.	175 120 200
Current ³	Switching ² Carry	Adc - max. Aac - max. Adc - max.	0.25 0.18 1.50
Resistance	Contact, Initial Insulation	Ω - max. Ω - min.	0.100 10°
Capacitance	Contact	pF - typ.	1
Temperature	Operating Storage ⁵	°C °C	-40 to +125 -65 to +125

- 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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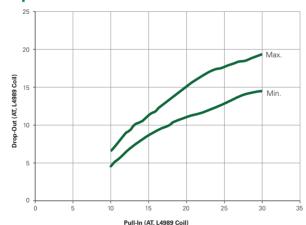
Product Characteristics

Operating Characteristics					
Operate Time ¹		0.7ms - max.			
Release Time ¹		1ms - max.			
Shock ²	11ms 1/2 sine wave	50G - max.			
Vibration ²	50-2000 Hertz	30G - max.			
Resonant Frequency		11.0kHz - typ.			
Magnetic Characteristics					
Pull-In Range ³	Ampere Turns	10-30			
Rating Sensitivity ⁴	Ampere Turns	20			
Test Coil		L4989			

Notes

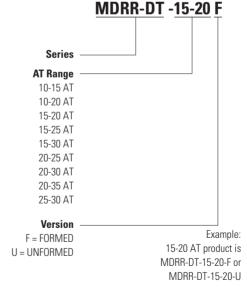
- 1. Operate (including bounce)/Release Time per EIA/NARM RS-421-A, diode suppressed coil (Coil II).
- 2. Shock and Vibration per EIA/NARM RS-421-A and MIL-STD-202.
- 3. Pull-In Range Contact Littelfuse for narrower AT ranges available.
- 4. Rating Sensitivity The value at which contact ratings and operating 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



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

Part Numbering System



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

Packaging

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

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