

# MDRR-DT 14.7mm Miniature Changeover Reed Switch



## 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  $10^9$  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
- Available sensitivity range 10-30 AT
- Capable of switching 175Vdc or 0.25A at up to 5W

## 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

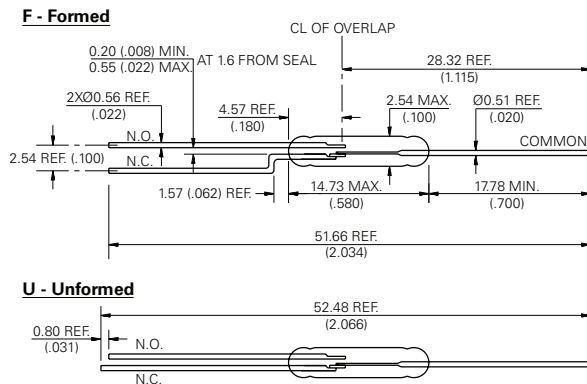
- Position Sensing
- Reed Relays
- Industrial Controls
- Office Equipments
- Home Appliances
- Security

## Agency Approvals

Agency	Agency File Number	Ampere-Turns Range
	E47258 E471070	10-30 AT
	DEMKO 14 ATEX 1393U	10-30 AT

## Dimensions

Dimensions in mm (inch)



## Switch Type

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 <sup>1</sup>		W/VA - max.	5
Voltage <sup>3</sup>	Switching <sup>2</sup>	Vdc - max.	175
	Breakdown <sup>4</sup>	Vac - max.	120
		Vdc - min.	200
Current <sup>3</sup>	Switching <sup>2</sup>	Adc - max.	0.25
	Carry	Aac - max.	0.18
		Adc - max.	1.50
Resistance	Contact, Initial Insulation	Ω - max.	0.100
		Ω - min.	$10^9$
Capacitance	Contact	pF - typ.	1
Temperature	Operating Storage <sup>5</sup>	°C	-40 to +125
		°C	-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.



