

# MITI-3V1 7mm Ultra-Miniature Reed Switch



## Description

The MITI-3V1 ultra-miniature reed switch is a normally open switch with a 7.00mm long x 1.80mm diameter (0.276" x 0.071") glass envelope, which is capable of switching 170Vdc at 10W. It has a high insulation resistance of  $10^{12}$  ohms minimum and low contact resistance of less than 150 milliohms.

The MITI-3V1 is also available in a surface mount version, that is, MISM-3V1.

## Features

- Ultra-miniature, normally open switch
- Capable of switching 170Vdc or 0.25A at up to 10W
- Available sensitivity range 6-10 AT

## Benefits

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

## Applications

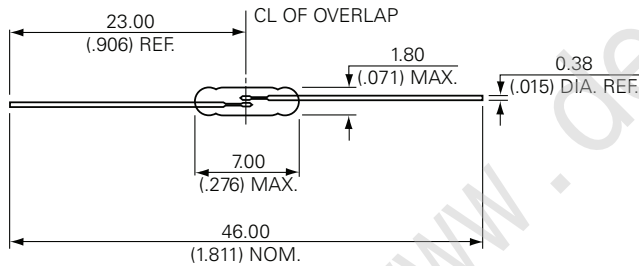
- Reed relays
- Security
- Metering
- Mobile phones

## Agency Approvals

Agency	Agency File Number	Ampere-Turns Range
	E47258 E471070	6-10 AT
	DEMKO 14 ATEX 1393U	6-10 AT

## Dimensions

Dimensions in mm



## Switch Type

Contact Form	A (SPST-NO)
Materials	Body: Glass Leads: Tin Plated Nickel Iron

Note: SPST-NO = Single-pole, single-throw, normally open

## Electrical Ratings

Contact Rating <sup>1</sup>		Watt - max.	10
Voltage <sup>3</sup>	Switching <sup>2</sup> Breakdown <sup>4</sup>	Vdc - max. Vdc - min.	170 175
Current <sup>3</sup>	Switching <sup>2</sup> Carry	A - max. A - max.	0.25 0.5
Resistance	Contact, Initial Insulation	$\Omega$ - max. $\Omega$ - min.	0.15 $10^{12}$
Capacitance	Contact	pF - typ.	0.3
Temperature	Operating Storage <sup>5</sup>	$^{\circ}$ C $^{\circ}$ 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.

