

MVSR-20

19.7mm Reed Switch



Web Resources



Download ECAD models, order samples, and find technical resources at www.littelfuse.com

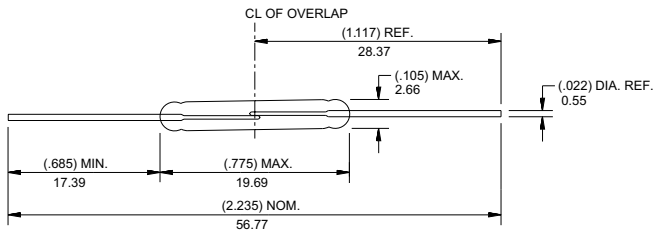
Agency Approvals

| Agency | Agency File Number | Ampere-Turns Range |
|--------|--------------------|--------------------|
| | E67006 | 17-48 AT |

Note: Contact Littelfuse for specific agency approval ratings.

Dimensions

Dimensions in mm (inch)



Description

The MVSR-20 series reed switch is a miniature, normally open switch with a 19.69mm long x 2.66mm diameter (0.775" x 0.105") glass envelope, capable of high voltage switching of up to 1kVdc at 1mA. It has high insulation resistance of 10¹² ohms minimum and contact resistance less than 100 milli-ohms.

Features and Benefits

- Miniature normally open switch
- Capable of switching 1000 Vdc at 1 mA or 0.5 A up to 10 W
- Minimum voltage breakdown 2000 Vdc
- Available sensitivity range 17-48AT
- Hermetically sealed switch contacts are not affected by and have no effect on their external environment
- Zero operating power required for contact closure

Applications

- Reed relays (particularly suitable for high voltage breakdown applications)
- Security
- Limit switching
- Telecoms line switching
- Industrial equipment
- Automatic test equipment

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

Electrical Ratings

| | | | |
|-----------------------------|--|-------------|---|
| Contact Rating ¹ | - | W/VA - max. | 10 |
| Voltage ³ | Switching ² Breakdown ⁴ | Vdc - max. | 1000 |
| | | Vac - max. | 265 |
| | | Vdc - min. | < 32AT = 2000 min 32-38 AT = 3000 min 37-48 AT = 3600 min |
| Current ³ | Switching ² Carry | Adc - max. | 0.50 |
| | | Aac - max. | 0.35 |
| | | Adc - max. | 1.30 |
| Capacitance | Contact | pF - typ. | 0.43 |
| Resistance | Contact, Initial Insulation | Ω - max. | 0.100 |
| | | Ω - min. | 10 ¹² |
| Temperature | Operating | °C | -65 to +125 |
| | Storage ⁵ | | |

Notes:

- Contact rating - Product of the switching voltage and current should never exceed the wattage rating. Contact Littelfuse for additional load/life information.
- 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.

- Electrical Load Life Expectancy - Contact Littelfuse with voltage, current values along with type of load.
- Breakdown Voltage- per MIL-STD-202, Method 301.
- Storage Temperature - Long time exposure at elevated temperature may degrade solderability of the leads.

