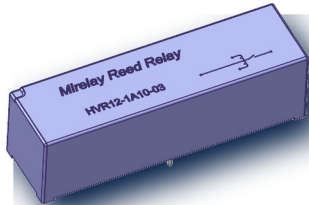


## HVR12-1A10-03

### High Voltage Reed Relay

#### PRODUCT VISUAL



embedded pdf product render with exact hvr12 1a10 03 marking

#### KEY RATINGS

COIL VOLTAGE  
**12 VDC**

CONTACT FORM  
**1 Form A**

SWITCH VOLTAGE  
**7.5 kVDC**

CONTACT RATING  
**50 W**

#### OVERVIEW

- High voltage reed relay
- Breakdown up to 10 kVDC
- Custom design available
- Low contact resistance
- Excellent lifetime characteristics

#### COIL DATA

|                      |                  |
|----------------------|------------------|
| Nominal Coil Voltage | <b>12 VDC</b>    |
| Nominal Current      | <b>60 mA</b>     |
| Coil Resistance      | <b>200±10% Ω</b> |
| Max Pull-in Voltage  | <b>9 VDC</b>     |
| Min Drop-out Voltage | <b>1 VDC</b>     |

#### CONTACT RATINGS

|                        |   |
|------------------------|---|
| Contact Form           | <b>1 Form A</b>                         |
| Max Contact Rating     | <b>50 W</b>                             |
| Max Switch Voltage     | <b>7.5 kVDC</b>                         |
| Max Switch Current     | <b>3.0 A</b>                            |
| Max Carrying Current   | <b>5.0 A</b>                            |
| Min Breakdown Voltage  | <b>10 kVDC</b>                          |
| Max Contact Resistance | <b>150 mΩ</b>                           |
| Life Expectancy        | <b>5×10<sup>7</sup> ops @500V 100mA</b> |

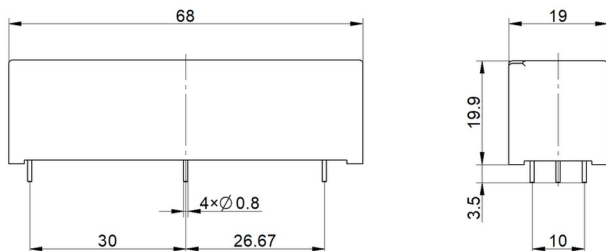
#### ELECTRICAL CHARACTERISTICS

|                           |                                  |
|---------------------------|----------------------------------|
| Dielectric Open / Coil    | <b>10 / 15 kVDC</b>              |
| Insulation Open / Coil    | <b>1×10<sup>12</sup> Ω each</b>  |
| Operate Time incl. Bounce | <b>3.0 ms</b>                    |
| Reset Time                | <b>1.5 ms</b>                    |
| Capacitance               | <b>1.0 pF across open switch</b> |

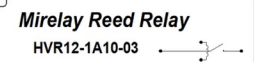
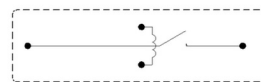
#### ENVIRONMENTAL / OPTIONS

|                       |                             |
|-----------------------|-----------------------------|
| Vibration             | <b>20 G, 10-2KHz 1.5mm</b>  |
| Shock                 | <b>50 G, 11ms half-sine</b> |
| Operating Temperature | <b>-20°C to +70°C</b>       |
| Storage Temperature   | <b>-35°C to +105°C</b>      |
| Soldering Temperature | <b>260°C, 5 sec max</b>     |
| Washability           | <b>Fully sealed</b>         |

#### MECHANICAL OUTLINE / DIMENSIONS



#### CIRCUIT / MARKING / TERMINAL VIEW



#### ORDERING & SOURCE TRACEABILITY

**HVR12-1A10-03 — HVR, 12 = 12 VDC, 1A = 1 Form A, 10 = 10 kVDC, Pin Out = 03, Special = Nil**

Source: HVR12-1A10-03.pdf

Technical values are preserved from source PDFs / generated metadata. Original outline and circuit figures are reused where available; do not treat artwork proportions as standalone dimensional authority.