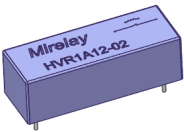


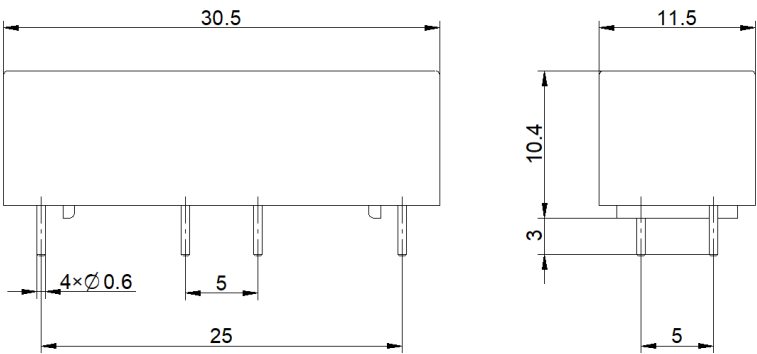
# HVR1A12-02

- High Voltage Reed Relay
- Low Contact Resistance
- Breakdown up to 4.2 kVDC
- Excellent Lifetime Characteristics
- Custom Design Available

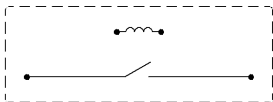


## Outline Dimension

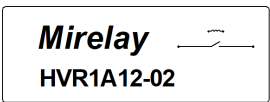
Unit: mm    DIM Tolerance: ±0.3



Layout[Top View]



Marking



## Coil Parameters (at 20℃)

| Nominal Coil Voltage | Nominal Current | Coil Resistance | Max Pull-in Voltage | Min Drop-out Voltage |
|----------------------|-----------------|-----------------|---------------------|----------------------|
| 12 VDC               | 32 mA           | 380±10% Ω       | 9 VDC               | 1 VDC                |

## Contact Parameters

|                        |          |                                                    |                       |
|------------------------|----------|----------------------------------------------------|-----------------------|
| Contact Form           | 1 Form A | Max Contact Rating                                 | 100 W                 |
| Max Switch Voltage     | 1 kVDC   | Max Switch Current                                 | 1.0 A                 |
| Max Carrying Current   | 2.5 A    | Min Breakdown Voltage                              | 4.2 kVDC              |
| Max Contact Resistance | 150 mΩ   | Life Expectancy (Electrical)<br>(at 500 VDC 100mA) | 5×10 <sup>7</sup> ops |

## Electrical Specifications

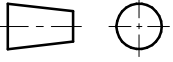
|                                     |                 |             |                                                                |                 |                      |
|-------------------------------------|-----------------|-------------|----------------------------------------------------------------|-----------------|----------------------|
| Dielectric Strength<br>(Static,min) | Open contacts   | 4.2 kVDC    | Insulation Resistance<br>(min./typ.) Rh<45%, 100V Test Voltage | Open contacts   | 1×10 <sup>12</sup> Ω |
|                                     | Contact to coil | 7 kVDC      |                                                                | Contact to coil | 1×10 <sup>12</sup> Ω |
| Operate Time,incl.Bounce            | 1.0 ms          | Capacitance | Across Open Switch                                             | 0.5 pF          |                      |
| Reset Time                          | 0.1 ms          |             |                                                                |                 |                      |

## Environmental data

|                                      |            |                                      |              |
|--------------------------------------|------------|--------------------------------------|--------------|
| Vibration (10 to 2KHz 1.5mm )        | 20 G       | Shock (1/2 sine wave duration 11ms ) | 50 G         |
| Operating Temperature                | -20℃ ~ 70℃ | Storage Temperature                  | -35℃ ~ 105℃  |
| Soldering Temperature (5 sec. dwell) | 260℃       | Washability                          | fully sealed |

## Example of order marking

|               |              |                      |         |              |
|---------------|--------------|----------------------|---------|--------------|
| Product model | Contact form | Nominal Coil Voltage | Pin Out | Special code |
| HVR           | 1A: 1 Form A | 12: 12 VDC           | 02      | Nil          |

|                            |          |              |                                                       |                                                                                                                   |
|----------------------------|----------|--------------|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Remark:<br><br><b>RoHS</b> | Make     | Li Linmao    | TITLE<br>High Voltage Reed Relay<br>P/N<br>HVR1A12-02 | <br>Version: 04<br>Page: 1/1 |
|                            | Checke   | Hu Shu       |                                                       |                                                                                                                   |
|                            | Approved | Dong Hu      |                                                       |                                                                                                                   |
|                            | Date     | 8th,Jan,2025 |                                                       |                                                                                                                   |