

HVR Series(10KV&15KV&20KV)

High voltage Reed Relay

1 Feature

- ◆ High power reed relay with dielectric strength up to 20KV DC
- ◆ High carry current
- ◆ High Insulation resistance, up to $10^{12}\Omega$
- ◆ Low contact resistance, excellent lifetime characteristics
- ◆ Custom Design, conforming to Rohs directive



2 Performance Data

Parameter		Units	Value		
Relay Model		/	HVR□-□10-□	HVR□-□15-□	HVR□-□20-□
Contact Rating		W	50		
Max.Switching Voltage (Max DC/Peak AC)		V	7500	10000	
Max.Switching Current (Max DC/Peak AC)		A	3.0		
Max.Carry Current		A	5.0		
Contact Resistance		mΩ	150		200
Dielectric Strength (static)	Between contact	V	10000	15000	20000
	Contact/shield to coil	V	15000		20000
	Contacts to shield	V	15000		20000
Insulation Resistance		Ω	10^{12}		
Operate Time		ms	3.0		
Release Time		ms	1.5		
Vibration(0~2000Hz)		G	20		
Shock(11ms, 1/2 sine)		G	50		
Operating Temp		°C	-20~+70		
Storage Temp		°C	-35~+105		
Life Expectancy		Ops	5×10^7 (at 500VDC-100mA)		
Outline Dimensions		/	Reference outline drawing		

3 Coil Parameters

Model	Nominal Voltage (VDC)	Pickup Voltage Max.(VDC)	Dropout Voltage Min.(VDC)	Operate Voltage Max.(VDC)	Coil Resistance ($\pm 10\% \Omega$ at 20°C)
HVR□-□□	5	4	0.5	7	30
	12	9	1	16	200
	24	18	2	29	600

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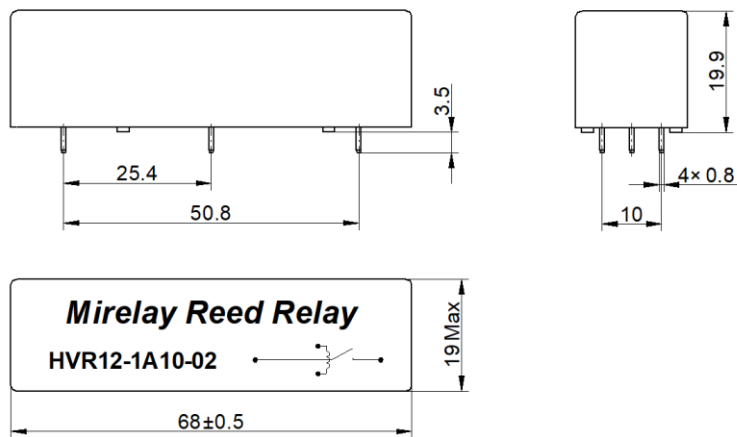
4 Example of order marking

HVR - - - (XXX)
 ① ② ③ ④ ⑤ ⑥

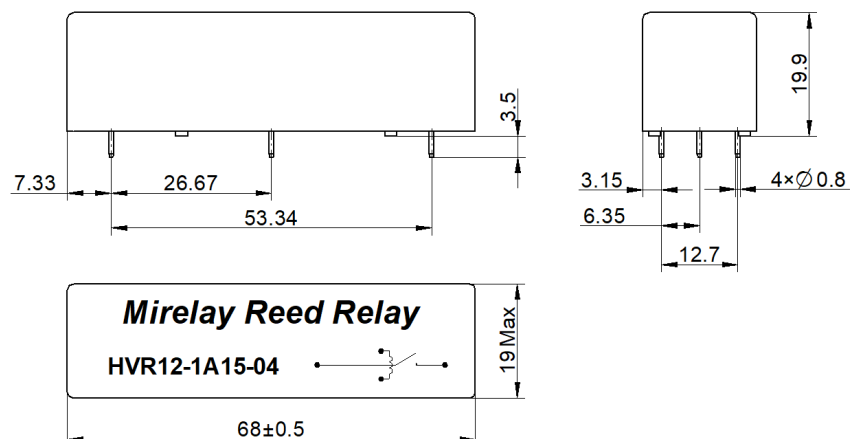
- ① Product model: HVR
- ② Nominal coil voltage: 05: 5VDC、12: 12VDC、24: 24VDC
- ③ Contact form: 1A: 1 Form A、1B: 1 Form B
- ④ Breakdown voltage: 10: 10KV、15: 15KV、20: 20KV
- ⑤ Pin type: 02、04、06、150、156
- ⑥ Special code: Customer special requirement

5 Outline drawing

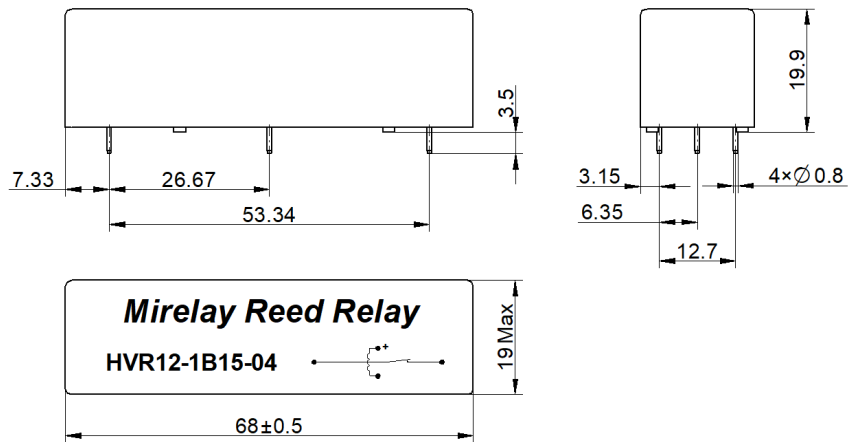
1) HVR□-1A□-02



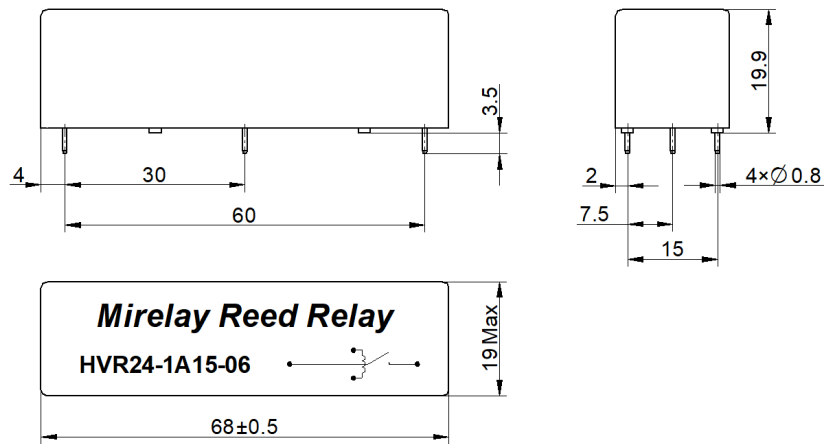
2) HVR□-1A□-04



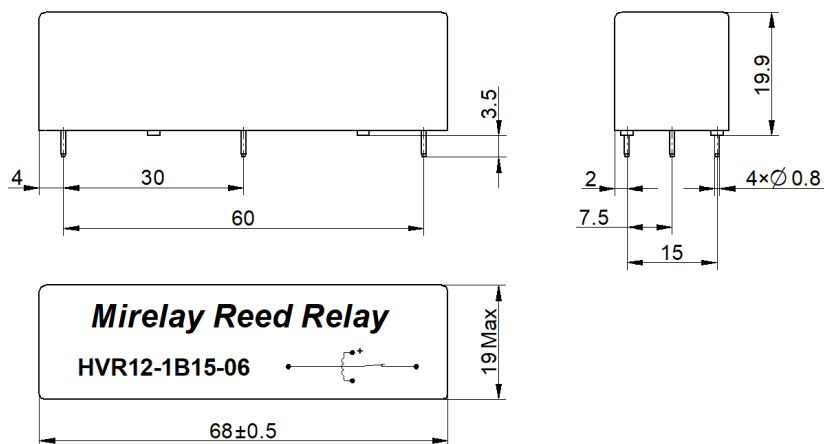
3) HVR□-1B□-04



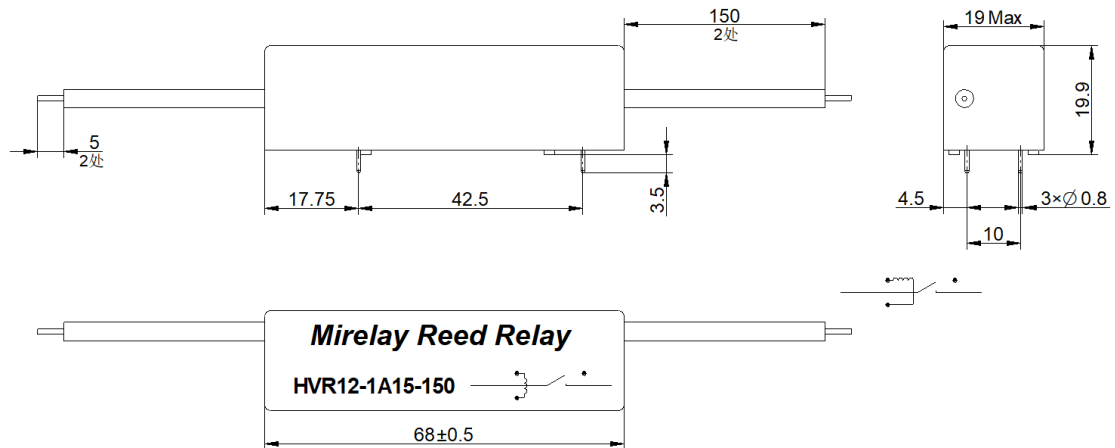
4) HVR□-1A□-06



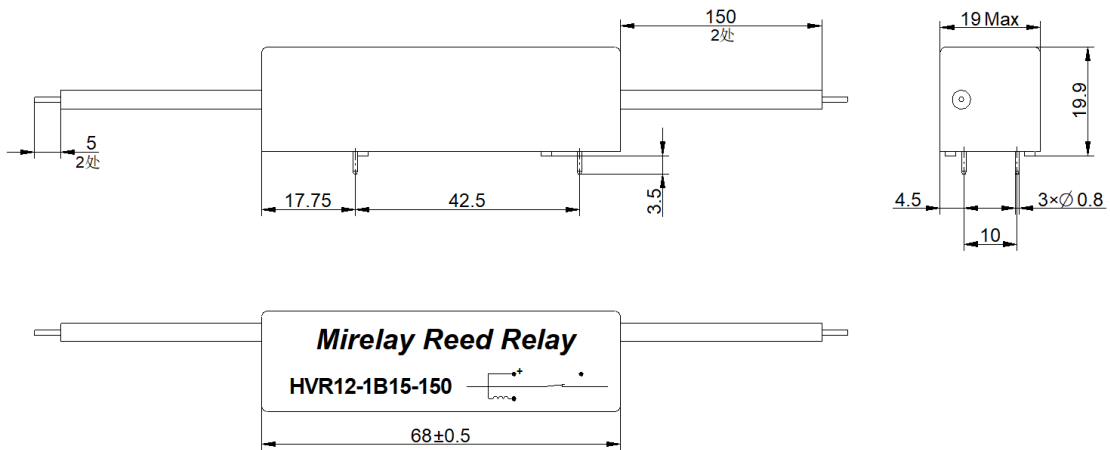
5) HVR□-1B□-06



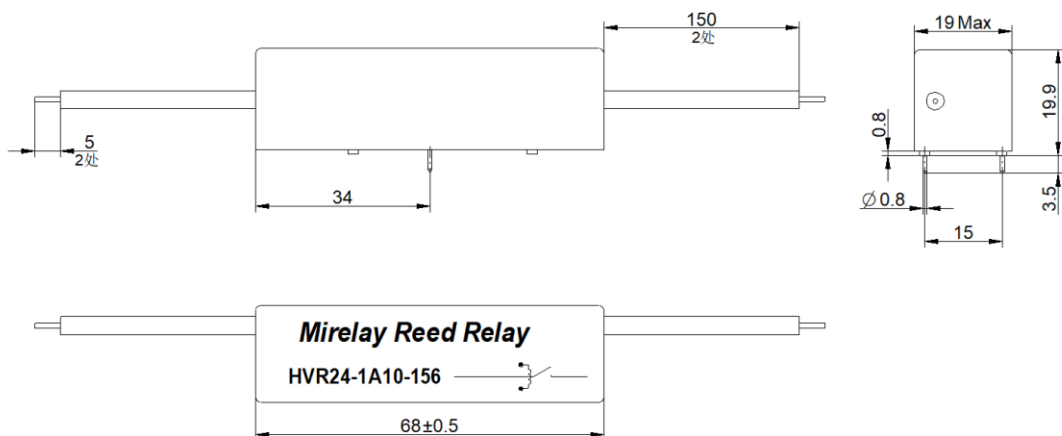
6) HVR□-1A□-150



7) HVR□-1B□-150

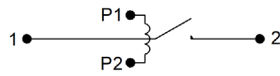


8) HVR□-1A□-156

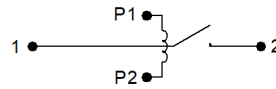


6 接线图

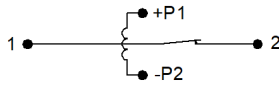
1) HVR□-1A□-02



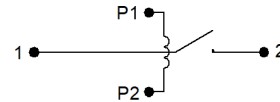
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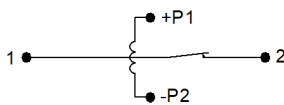
3) HVR□-1B□-04



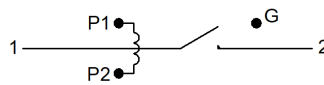
4) HVR□-1A□-06



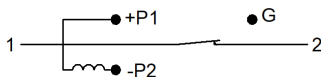
5) HVR□-1B□-06



6) HVR□-1A□-150



7) HVR□-1B□-150



8) HVR□-1A□-156



7 Precautions for use

- ※ Avoid installing relays where rain falls, or where there is a strong magnetic field, or near an object with thermal radiation.
- ※ Switching inductive or capacitive load systems will produce peak voltage or current, it is recommended to use protective circuit, otherwise, may cause relay damage.
- ※ Avoid excessive packing density in use which may affect the electrical characteristics of the relay.
- ※ Mechanical impact strength is too large, will cause the relay to use the fault.
- ※ When the relay is used for wave soldering, the maximum temperature is 260°C and the time does not exceed 5s.

⚠Statement:

The document is for customer reference only. Specifications and parameters may be changed due to product improvement. For the specific parameters and performance of each product, please refer to the specifications and samples provided by Mirelay without further notice.

Relay performance parameters in different application areas are different, so customers should choose the appropriate products according to the specific conditions of use, if in doubt, please contact Shanghai MiRelay Electronics Co.,Ltd. for more technical support.

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