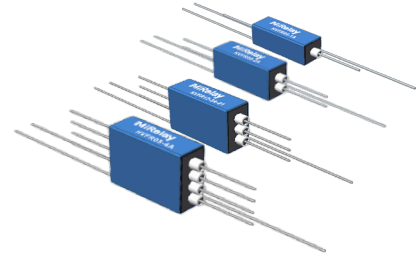


HVFR Series

High voltage Reed Relay

1 Feature

- ◆ High power reed relay with dielectric strength up to 4000VDC
- ◆ High carry current
- ◆ High Insulation resistance, up to $10^{13}\Omega$
- ◆ Low contact resistance, excellent lifetime characteristics
- ◆ External magnetic and electrostatic shield
- ◆ Custom Design, conforming to Rohs directive



2 Performance Data

Paramenter		Units	Value
Relay Model		/	HVFR□-□
Contact Rating		W	100
Max.Switching Voltage (Max DC/Peak AC)		V	1000
Max.Switching Current (Max DC/Peak AC)		A	1.0
Max.Carry Current	at 60℃	A	2.5
Contact Resistance		mΩ	120
Dielectric Strength (static)	Between contact	V	4000
	Contact/shield to coil	V	4000
	Contacts to shield	V	4000
Insulation Resistance		Ω	10^{13}
Operate Time		ms	1.0
Release Time		ms	1.0
Vibration(0~2000Hz)		G	20
Shock(11ms, 1/2 sine)		G	50
Operating Temp		℃	-20~+70
Storage Temp		℃	-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℃)
HVFR□-1A HVFR□-2A	5	4	0.5	6.5	100
	12	9	1	16	400
	24	18	2	29	1600

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The drawing shows the mechanical specifications of the HVFR12-4A relay. The top view (left) shows a rectangular component with a width of 8.5 mm and a length of 102 mm (40 mm + 22 mm + 40 mm). It features four pins on the left labeled 2, 4, 6, and 8, and a ground pin on the right labeled G. The side view (right) shows a height of 11 mm and a width of 18 mm. The front view (bottom) shows a height of 11 mm and a width of 28 mm (14 mm + 14 mm). The component is labeled "Mirelay HVFR12-4A".

Technical drawing of the HVFR12-2A-01 relay showing three views: top, side, and front views with dimensions in millimeters.

- Top View:** Shows the relay body with dimensions 40, 22, and 40. Pin 1 is 1mm from the left edge, and pin 2 is 14mm from the right edge. The total width is 8.5mm.
- Side View:** Shows the relay body with a height of 12mm.
- Front View:** Shows the relay body with a height of 7mm and a width of 28mm. The distance from the left edge to the center of the relay body is 14mm.

Technical drawing of the HVFR12-3A-01 relay, showing dimensions in mm.

Top View:

- Overall width: 85 mm
- Distance from left edge to P1/P2 terminals: 40 mm
- Relay body width: 22 mm
- Distance from relay body to G terminal: 40 mm
- Terminal P1 and P2 are on the left, and G is on the right.
- Terminal numbers 1, 3, 5 are on the left side of the relay body, and 2, 4, 6 are on the right side.
- Distance between the two rows of terminals (1,3,5 and 2,4,6): 14 mm

Side View:

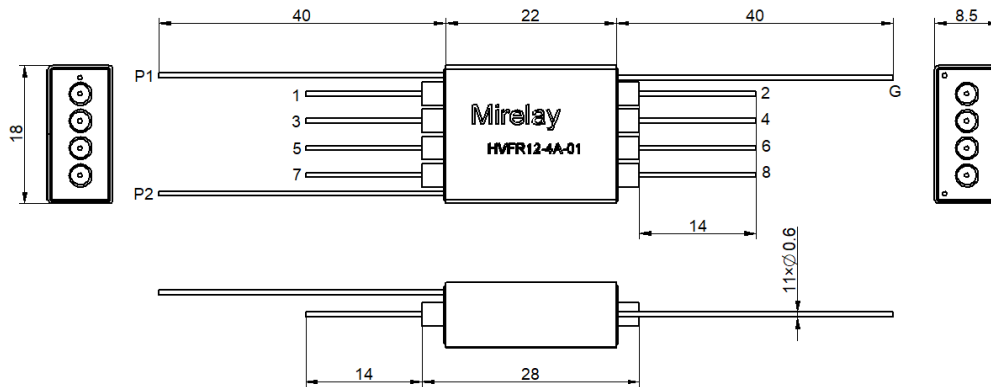
- Overall height: 15 mm
- Terminal P1 and P2 are on the left, and G is on the right.

Detail View (Bottom):

- Distance from left edge to the start of the relay body: 14 mm
- Relay body width: 28 mm
- Distance from the end of the relay body to the right edge: 14 mm
- Mounting hole diameter: $9 \times \varnothing 0.6$

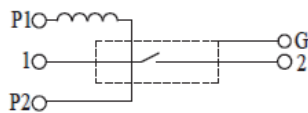
POSTAL CODE:200063

7) HVFR□-4A-01

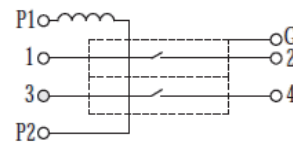


6 Wiring diagram

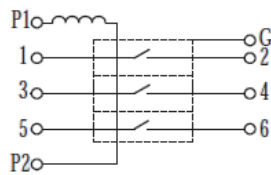
1) HVFR□-1A



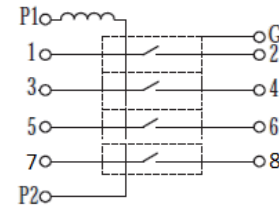
2) HVFR□-2A、HVFR□-2A-01



3) HVFR□-3A、HVFR□-3A-01



4) HVFR□-4A、HVFR□-4A-01



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℃ and the time does not exceed 5s.

⚠Statement:

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HRX Series**High voltage Reed Relay****1 Feature**

- ◆ High power reed relay with dielectric strength up to 15VDC
- ◆ High carry current
- ◆ High Insulation resistance, up to $10^{12}\Omega$
- ◆ Low contact resistance, excellent lifetime characteristics
- ◆ External magnetic and electrostatic shield
- ◆ Custom Design, conforming to Rohs directive

**2 Performance Data**

Paramenter		Units	Value	
Relay Model		/	HRX□-1A10	HRX□-1A15
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	
Dielectric Strength (static)	Between contact	V	10000	15000
	Contact/shield to coil	V	15000	
	Contacts to shield	V	15000	
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 (±10%Ω at 20℃)
HRX□-1A□	10	7.5	1	14	120
	12	9	1	16	200
	24	18	2	29	600

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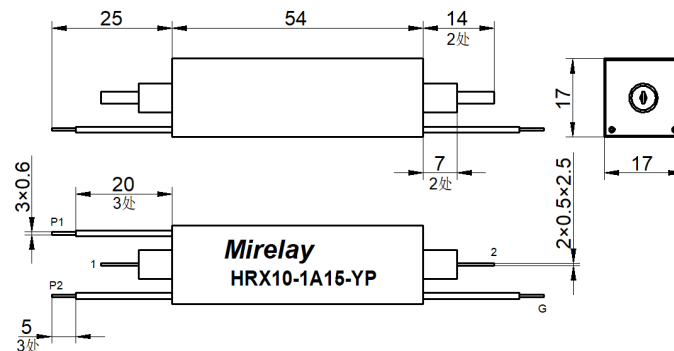
POSTAL CODE:200063

4 Example of order marking

HRX □ - □ □ □ - (XXX)
① ② ③ ④ ⑤ ⑥

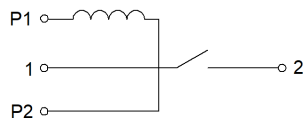
- ① Product model: HRX
- ② Nominal coil voltage: 05: 5VDC、12: 12VDC、24: 24VDC
- ③ Contact form: 1A: 1 Form A
- ④ Breakdown voltage: 10: 10KV、15: 15KV
- ⑤ Features: Blank: Standard 、YP: Electrostatic shield
- ⑥ Special code: Customer special requirement

5 Outline drawing

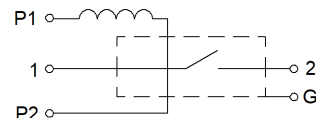


6 Wiring diagram

1) Standard



2) Electrostatic shield



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℃ and the time does not exceed 5s.

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HVR Series(10KV&15KV&18KV)

High voltage Reed Relay

1 Feature

- ◆ High power reed relay with dielectric strength up to 18KV 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

Paramenter		Units	Value		
Relay Model		/	HVR□-□10-□	HVR□-□15-□	HVR□-□18-□
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	at 60℃	A	5.0		
Contact Resistance		mΩ	150		
Dielectric Strength (static)	Between contact	V	10000	15000	18000
	Contacts to coil	V	15000		
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		℃	-20～+70		
Storage Temp		℃	-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℃)
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

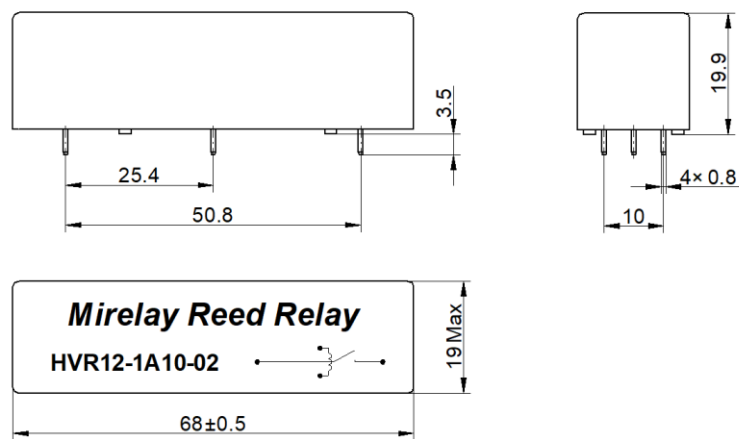
HVR - - - (XXX)

① ② ③ ④ ⑤ ⑥

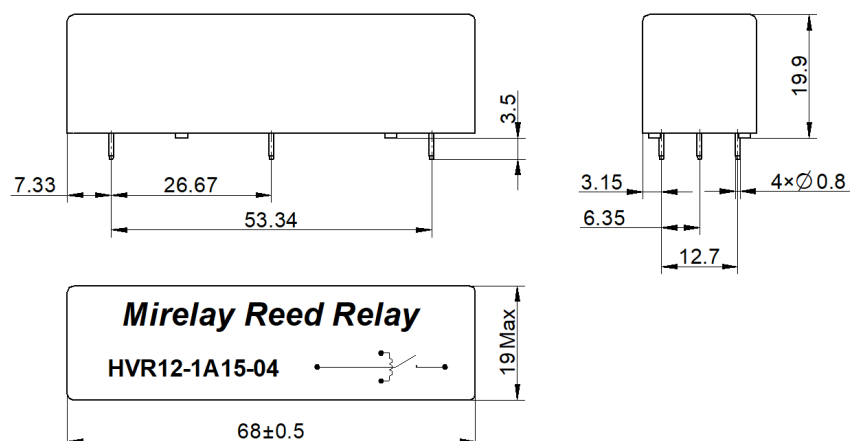
- ① Product model: HVR
- ② Nominal coil voltage: 05: 5VDC、12: 12VDC、24: 24VDC
- ③ Contact form: 1A: 1 Form A、1B: 1 Form B
- ④ Breakdown voltage: 10: 10KV、15: 15KV、18: 18KV
- ⑤ Pin type: 02、04、06、150、156
- ⑥ Special code: Customer special requirement

5 Outline drawing

1) HVR -1A -02



2) HVR -1A -04



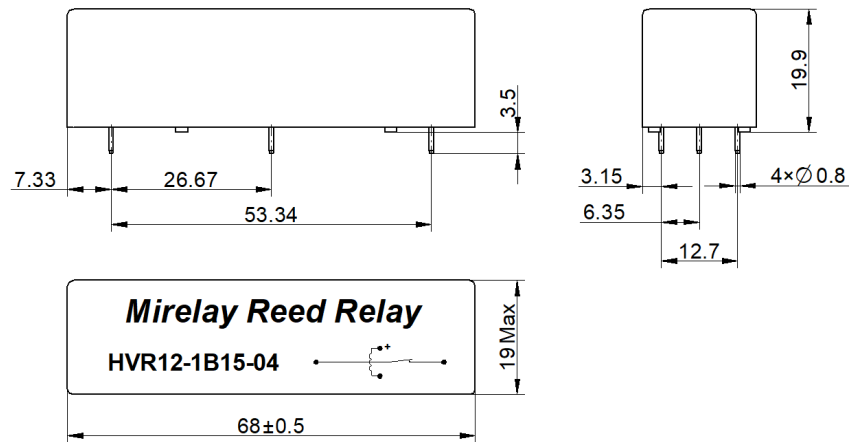
地址：上海市普陀区中山北路 3000 号长城大厦 1007

ADDRESS:1007, Great Wall Building, 3000 Zhongshan North Road, Putuo District, Shanghai

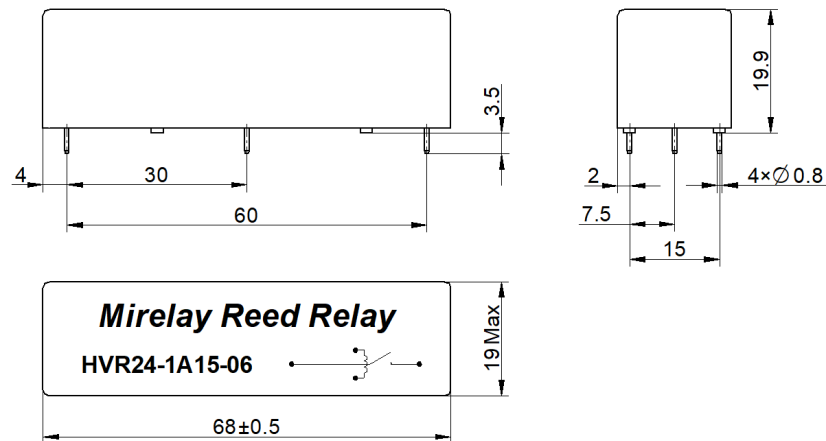
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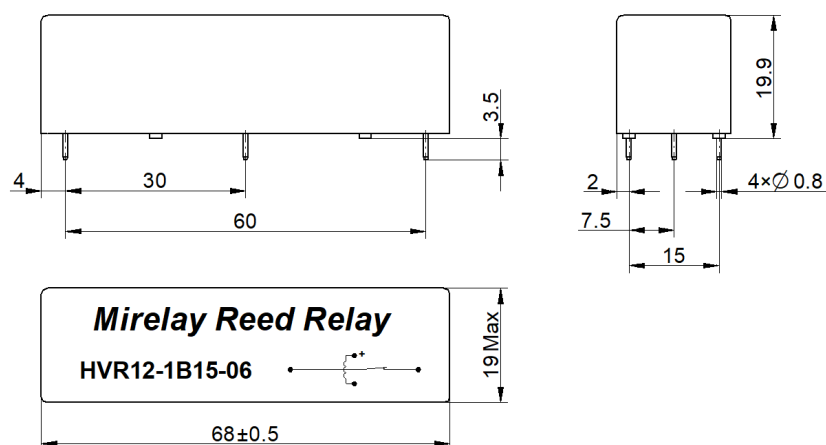
3) HVR□-1B□-04



4) HVR□-1A□-06



5) HVR□-1B□-06



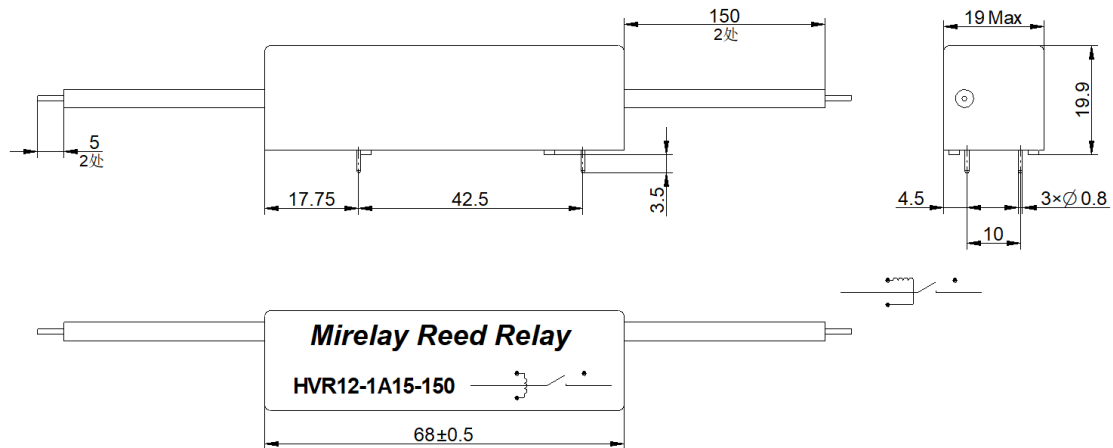
地址：上海市普陀区中山北路 3000 号长城大厦 1007

ADDRESS:1007, Great Wall Building, 3000 Zhongshan North Road, Putuo District, Shanghai

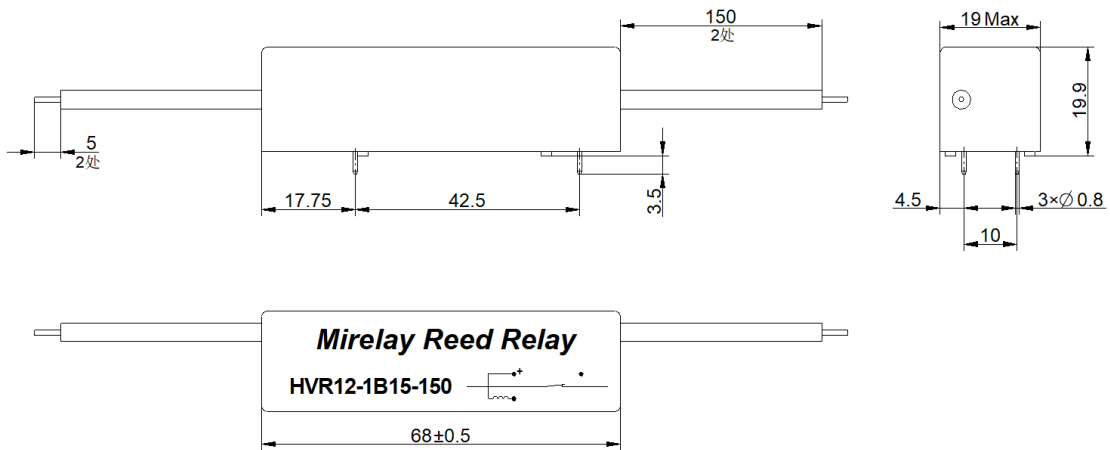
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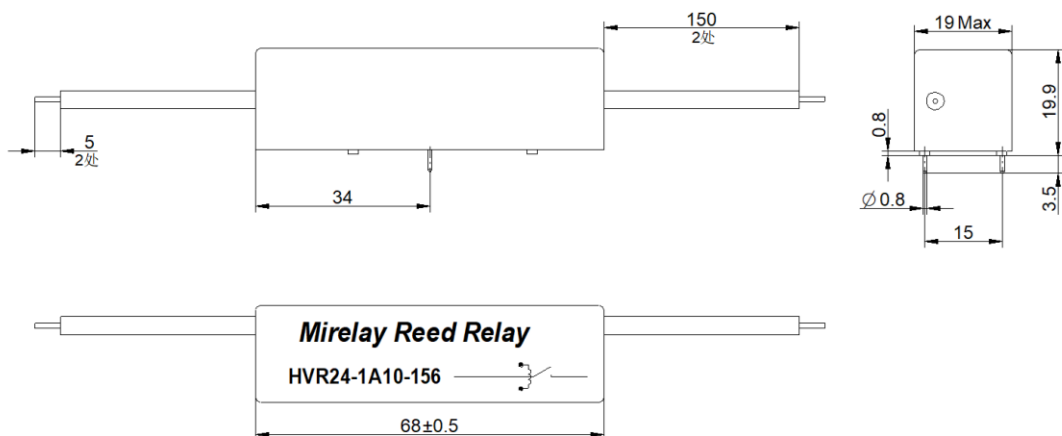
6) HVR□-1A□-150



7) HVR□-1B□-150



8) HVR□-1A□-156



地址：上海市普陀区中山北路 3000 号长城大厦 1007

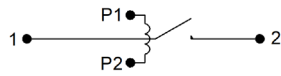
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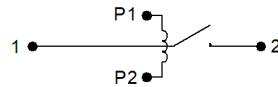
POSTAL CODE:200063

6 接线图

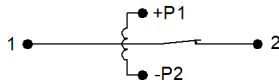
1) HVR□-1A□-02



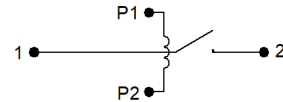
2) HVR□-1A□-04



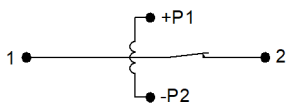
3) HVR□-1B□-04



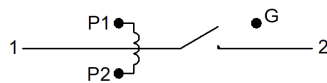
4) HVR□-1A□-06



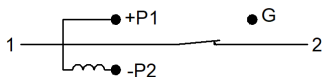
5) HVR□-1B□-06



6) HVR□-1A□-150



7) HVR□-1B□-150



8) HVR□-1A□-156



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℃ and the time does not exceed 5s.

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HVR Series(4KV&6KV)**High voltage Reed Relay****1 Feature**

- ◆ High power reed relay with dielectric strength up to 6KV 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**

Paramenter		Units	Value	
Relay Model		/	HVR□-2A04	HVR□-2A06
Contact Rating		W	100	
Max.Switching Voltage (Max DC/Peak AC)		V	1000	
Max.Switching Current (Max DC/Peak AC)		A	1.0	
Max.Carry Current	at 60℃	A	2.5	
Contact Resistance		mΩ	150	300
Dielectric Strength (static)	Between contact	V	4000	6000
	Contact/shield to coil	V	4000	6000
	Contacts to shield	V	4000	6000
Insulation Resistance		Ω	10^{12}	
Operate Time		ms	1.0	
Release Time		ms	0.1	
Vibration(0~2000Hz)		G	20	
Shock(11ms, 1/2 sine)		G	50	
Operating Temp		℃	-20~+70	
Storage Temp		℃	-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℃)
HVR□-2A	5	4	0.5	7	120
	12	9	1	16	250
	24	18	2	29	1600

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4 Example of order marking

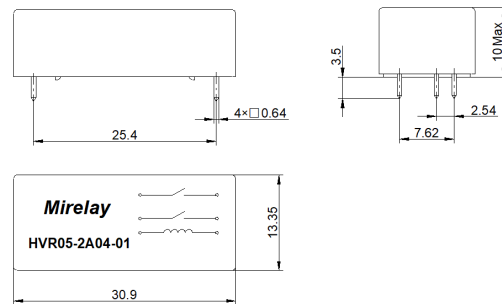
HVR □ - □ □ - □ - (XXX)

① ② ③ ④ ⑤ ⑥

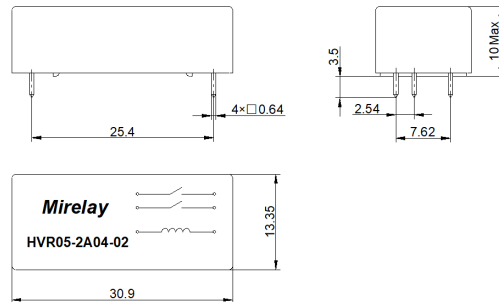
- ⑥ Product model: HVR
- ⑦ Nominal coil voltage: 05: 5VDC、12: 12VDC、24: 24VDC
- ⑧ Contact form: 2A: 2 Form A
- ⑨ Breakdown voltage: 04: 4KV、06: 6KV
- ⑩ Pin type: 01、02
- ⑥ Special code: Customer special requirement

5 Outline drawing

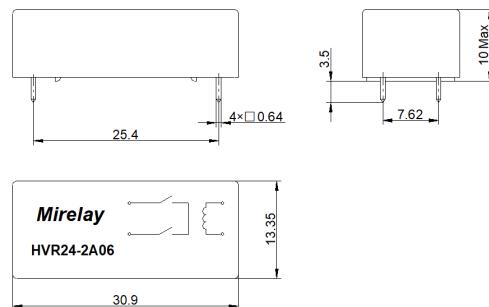
1) HVR□-2A04-01



2) HVR□-2A04-02



3) HVR□-2A06



地址：上海市普陀区中山北路 3000 号长城大厦 1007

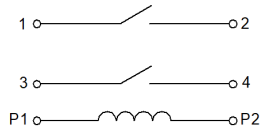
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邮政编码：200063

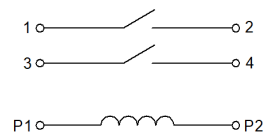
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6 Wiring diagram

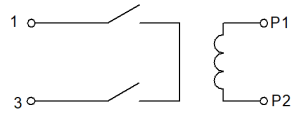
1) HVR□-2A04-01



2) HVR□-2A04-02



3) HVR□-2A06



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℃ and the time does not exceed 5s.

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POSTAL CODE:200063

HVR Series**High voltage Reed Relay****1 Feature**

- ◆ High power reed relay with dielectric strength up to 4KV 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**

Paramenter		Units	Value	
Relay Model		/	HVR1A□	HVR1B□
Contact Rating		W	100	
Max.Switching Voltage (Max DC/Peak AC)		V	1000	
Max.Switching Current (Max DC/Peak AC)		A	1.0	
Max.Carry Current	at 60℃	A	2.5	
Contact Resistance		mΩ	150	
Dielectric Strength (static)	Between contact	V	1000/2000/3000/4000	
	Contact to coil	V	4000	
	Contacts to shield	V	4000	
Insulation Resistance		Ω	10^{12}	
Operate Time		ms	1.0	
Release Time		ms	0.1	
Vibration(0~2000Hz)		G	20	
Shock(11ms, 1/2 sine)		G	50	
Operating Temp		℃	-20~+70	
Storage Temp		℃	-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℃)
HVR1A□	5	4	0.5	7	100
	12	9	1	16	620
	24	18	2	29	1400
型 号	额定电压	动作电压	释放电压	最大电压	线圈电阻

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	(VDC)	(VDC)	(VDC)	(VDC)	(±10%Ω at 20℃)
HVR1B□	5	4	0.5	7	150
	12	9	1	16	250
	24	18	2	29	1600

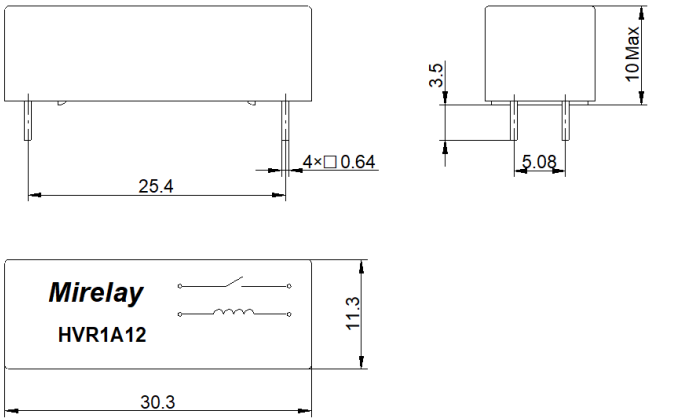
4 Example of order marking

HVR □ - □ □ - (XXX)
① ② ③ ④

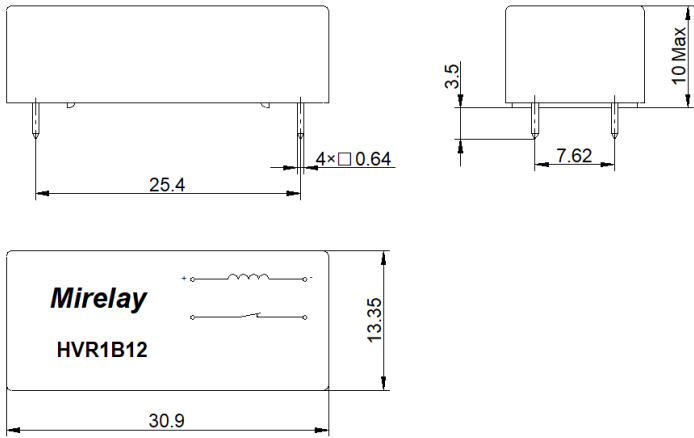
- ⑪ Product model: HVR
- ⑫ Contact form: 1A: 1 Form A、1B: 1 Form B
- ⑬ Nominal coil voltage: 05: 5VDC、12: 12VDC、24: 24VDC
- ⑭ Special code: Customer special requirement

5 Outline drawing

1) HVR1A□

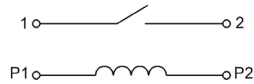


2) HVR1B□

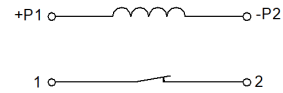


6 Wiring diagram

1) HVR1A□



2) HVR1B□



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℃ and the time does not exceed 5s.

⚠Statement:

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HRM(12A04) Series

High voltage Reed Relay Module

1 Feature

- ◆ 12 Channel high voltage relay module
- ◆ Dielectric strength up to 4 KVDC
- ◆ DIN Guide mounting
- ◆ LED indicate light
- ◆ Professional circuit protection
- ◆ Custom Design, conforming to Rohs directive



2 Performance Data

Paramenter		Units	Value
Relay Model		/	HRM□-12A04
Contact Rating		W	100
Max.Switching Voltage (Max DC/Peak AC)		V	1000
Max.Switching Current (Max DC/Peak AC)		A	1.0
Max.Carry Current		A	2.5
Contact Resistance		mΩ	150
Dielectric Strength (static)	Between contact	VDC	4000
	Contact to coil	VDC	4000
Insulation Resistance		Ω	10 ¹¹
Operate Time		ms	1.0
Release Time		ms	0.1
Vibration(0~2000Hz)		G	20
Shock(11ms, 1/2 sine)		G	50
Operating Temp		℃	-20~+70
Storage Temp		℃	-35~+105
Life Expectancy		Ops	5 × 10 ⁷ (at 500VDC-10mA)
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 (±10%Ω at 20℃)
HRM□-12A04	5	4	0.5	7	70
	12	9	1	16	400
	24	18	2	29	1100

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4 Example of order marking

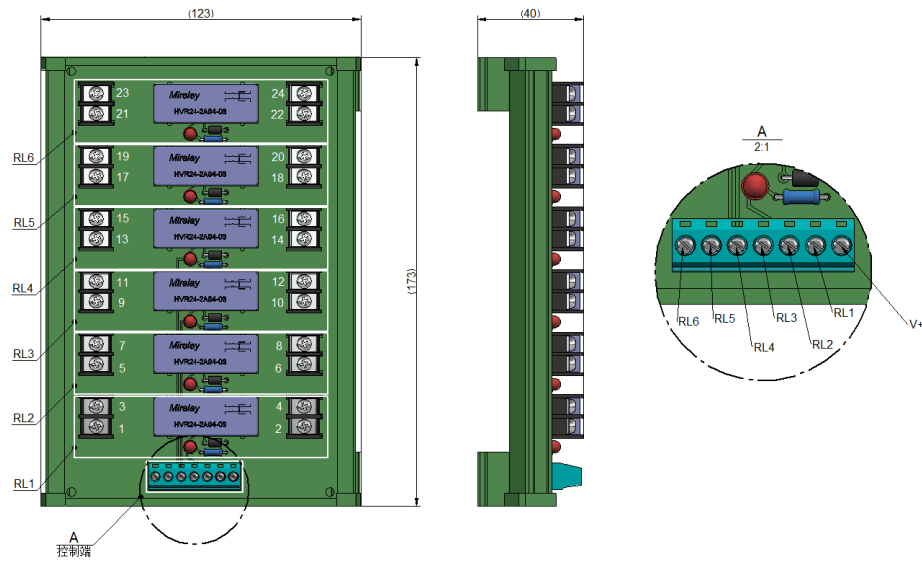
HRM □ - □ □ (XXX)

① ② ③ ④ ⑤

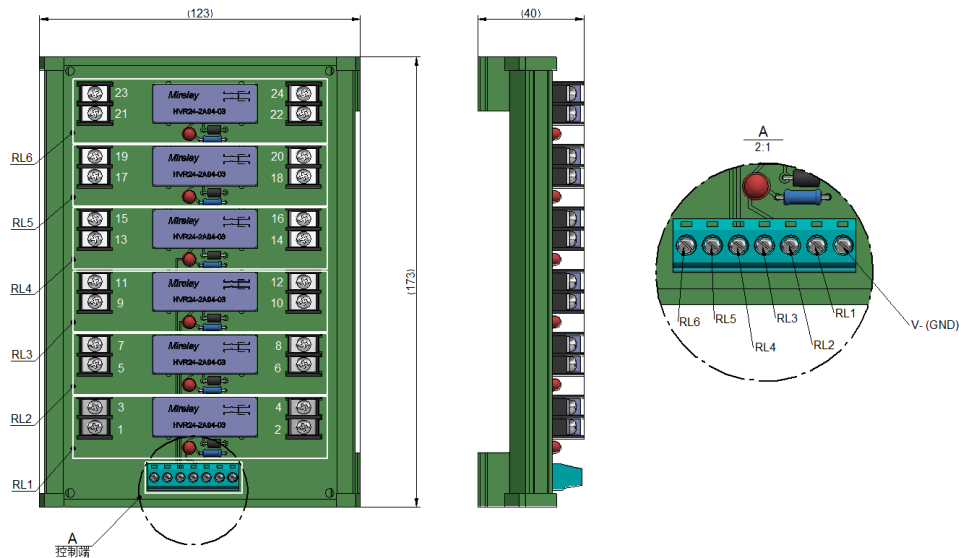
- ① Product model: HRM
- ② Nominal coil voltage: 05: 5VDC、12: 12VDC、24: 24VDC
- ③ Contact form: 12A: 12 Form A
- ④ Breakdown voltage: 04: 4KV
- ⑤ Special code: Customer special requirement

5 Outline drawing

1) V+



2) V- (GND)



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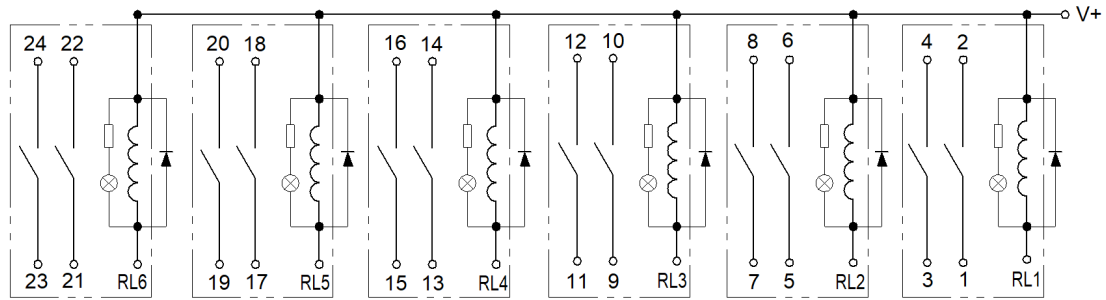
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邮政编码：200063

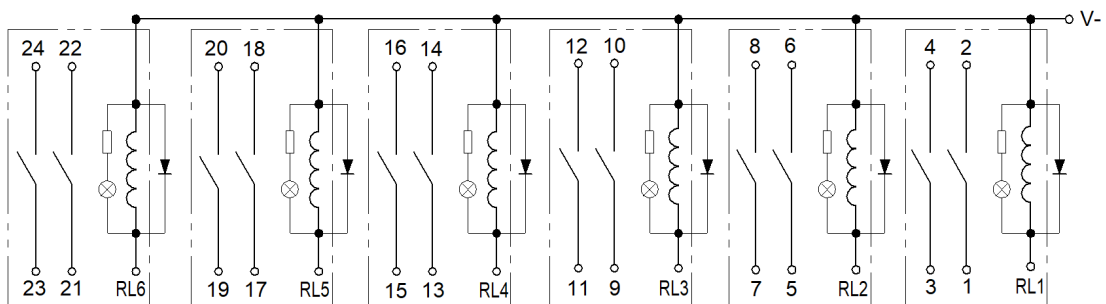
POSTAL CODE:200063

6 Wiring diagram

1) V+



2) V- (GND)



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℃ and the time does not exceed 5s.

⚠Statement:

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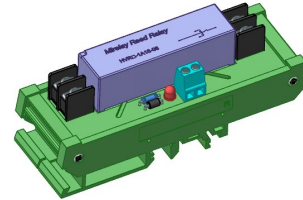
Relay performance parameters in different application areas are different, so customers should choose the appropriate products according to the specific conditions of use, if in doubt, please contact for more technical support.

HRM(1A) Series

High voltage Reed Relay Module

1 Feature

- ◆ 1 Channel high voltage relay module
- ◆ Dielectric strength up to 15 KVDC
- ◆ DIN Guide mounting
- ◆ LED indicate light
- ◆ Professional circuit protection
- ◆ Custom Design, conforming to Rohs directive



2 Performance Data

Paramenter		Units	Value	
Relay Model		/	HRM□-1A10	HRM□-1A15
Contact Rating		W	10	
Max.Switching Voltage (Max DC/Peak AC)		V	7000	10000
Max.Switching Current (Max DC/Peak AC)		A	3.5	
Max.Carry Current		A	5.0	
Contact Resistance		mΩ	150	
Dielectric Strength (static)	Between contact	VDC	10000	15000
	Contact to coil	VDC	15000	
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		℃	-20~+70	
Storage Temp		℃	-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 (±10%Ω at 20℃)
HRM□-1A□	5	4	0.5	6.5	50
	12	9	1	15	200
	24	18	2	29	600

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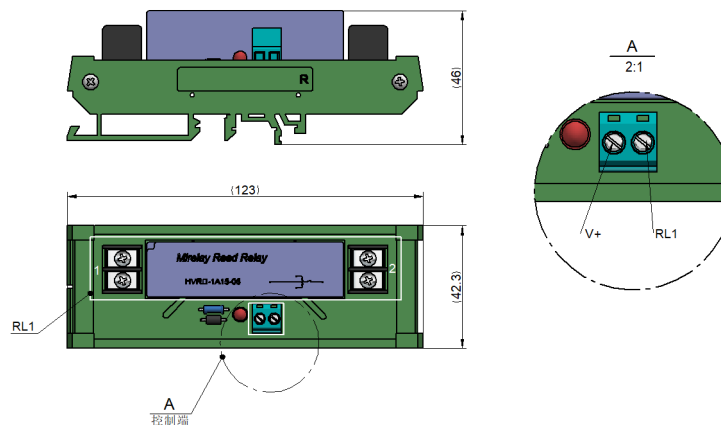
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4 Example of order marking

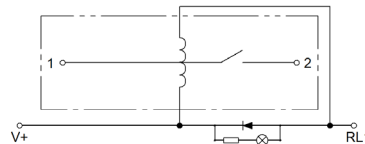
HRM □ - □ □ (XXX)
① ② ③ ④ ⑤

- ① Product model: HRM
- ② Nominal coil voltage: 05: 5VDC、12: 12VDC、24: 24VDC
- ③ Contact form: 1A: 1 Form A
- ④ Breakdown voltage: 10: 10KV、15: 15KV
- ⑤ Special code: Customer special requirement

5 Outline drawing



6 Wiring diagram



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℃ and the time does not exceed 5s.

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HRM(2A) Series

High voltage Reed Relay Module

1 Feature

- ◆ 2 Channel high voltage relay module
- ◆ Dielectric strength up to 15 KVDC
- ◆ DIN Guide mounting
- ◆ LED indicate light
- ◆ Professional circuit protection
- ◆ Custom Design, conforming to Rohs directive



2 Performance Data

Paramenter		Units	Value	
Relay Model		/	HRM□-2A10	HRM□-2A15
Contact Rating		W	10	
Max.Switching Voltage (Max DC/Peak AC)		V	7000	10000
Max.Switching Current (Max DC/Peak AC)		A	3.5	
Max.Carry Current		A	5.0	
Contact Resistance		mΩ	150	
Dielectric Strength (static)	Between contact	VDC	10000	15000
	Contact to coil	VDC	15000	
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		℃	-20~+70	
Storage Temp		℃	-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 (±10%Ω at 20℃)
HRM□-2A□	5	4	0.5	6.5	50
	12	9	1	15	200
	24	18	2	29	600

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4 Example of order marking

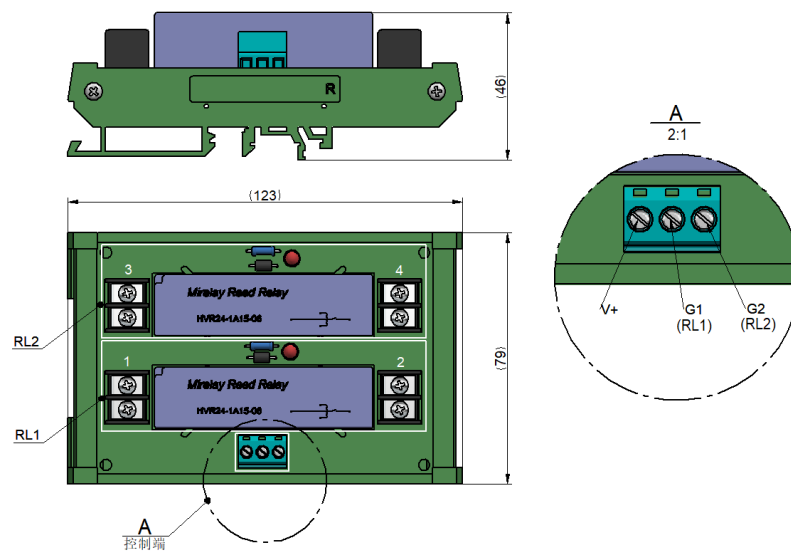
HRM □ - □ □ (XXX)

① ② ③ ④ ⑤

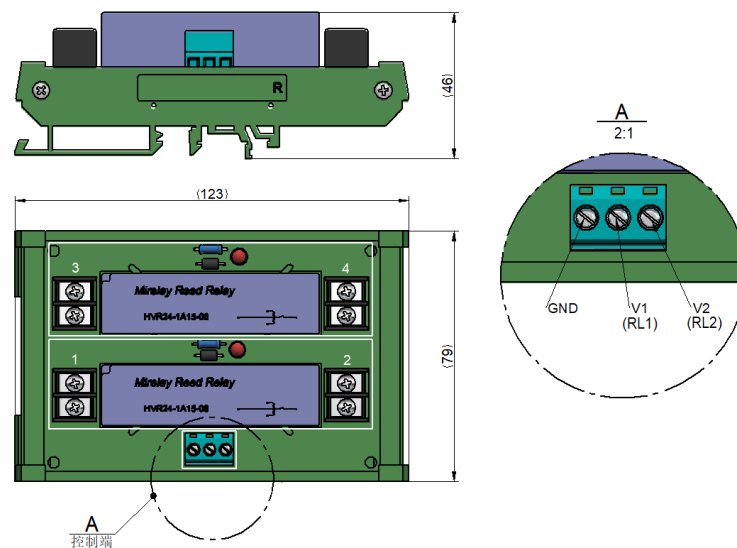
- ① Product model: HRM
- ② Nominal coil voltage: 05: 5VDC、12: 12VDC、24: 24VDC
- ③ Contact form: 2A: 2 Form A
- ④ Breakdown voltage: 10: 10KV、15: 15KV
- ⑤ Special code: Customer special requirement

5 Outline drawing

1) V+



2) V- (GND)



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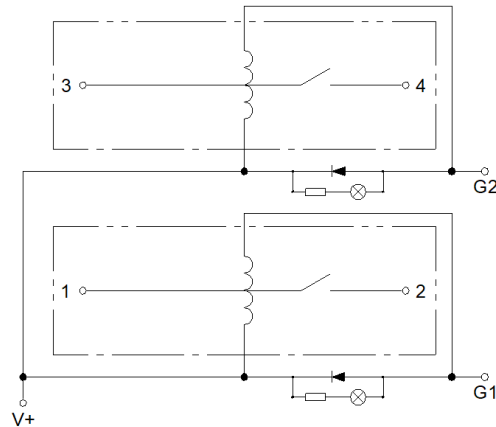
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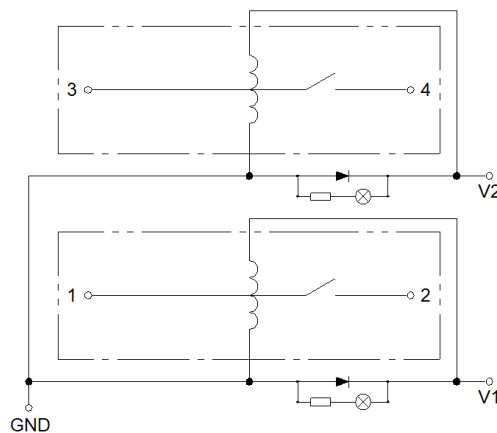
POSTAL CODE:200063

6 Wiring diagram

1) V+



2) V- (GND)



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℃ and the time does not exceed 5s.

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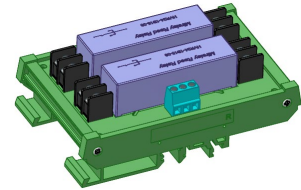
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HRM(2B) Series

High voltage Reed Relay Module

1 Feature

- ◆ 2 Channel high voltage relay module
- ◆ Dielectric strength up to 15 KVDC
- ◆ DIN Guide mounting
- ◆ LED indicate light
- ◆ Professional circuit protection
- ◆ Custom Design, conforming to Rohs directive



2 Performance Data

Paramenter		Units	Value	
Relay Model		/	HRM□-2B10	HRM□-2B15
Contact Rating		W	10	
Max.Switching Voltage (Max DC/Peak AC)		V	7000	10000
Max.Switching Current (Max DC/Peak AC)		A	3.5	
Max.Carry Current		A	5.0	
Contact Resistance		mΩ	150	
Dielectric Strength (static)	Between contact	VDC	10000	15000
	Contact to coil	VDC	15000	
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		℃	-20~+70	
Storage Temp		℃	-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 (±10%Ω at 20℃)
HRM□-2B□	5	4	0.5	6.5	50
	12	9	1	15	200
	24	18	2	29	600

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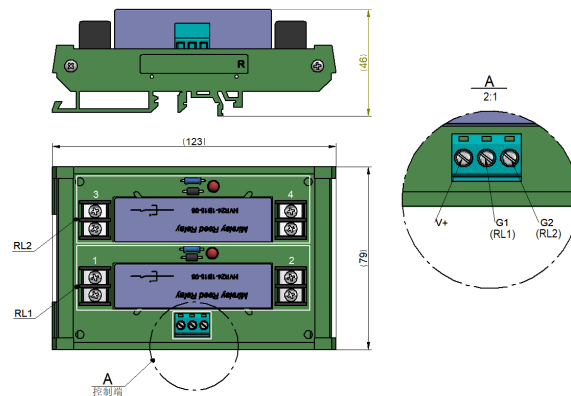
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4 Example of order marking

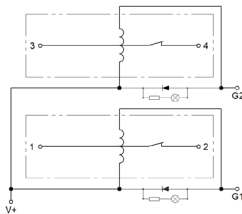
HRM □ - □ □ (XXX)
① ② ③ ④ ⑤

- ① Product model: HRM
- ② Nominal coil voltage: 05: 5VDC、12: 12VDC、24: 24VDC
- ③ Contact form: 2B: 2 Form B
- ④ Breakdown voltage: 10: 10KV、15: 15KV
- ⑤ Special code: Customer special requirement

5 Outline drawing



6 Wiring diagram



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℃ and the time does not exceed 5s.

⚠Statement:

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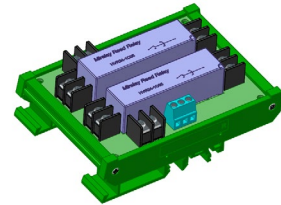
Relay performance parameters in different application areas are different, so customers should choose the appropriate products according to the specific conditions of use, if in doubt, please contact for more technical support.

HRM(2C) Series

High voltage Reed Relay Module

1 Feature

- ◆ 2 Channel high voltage relay module
- ◆ Dielectric strength up to 5 KVDC
- ◆ DIN Guide mounting
- ◆ LED indicate light
- ◆ Professional circuit protection
- ◆ Custom Design, conforming to Rohs directive



2 Performance Data

Paramenter		Units	Value	
Relay Model		/	HRM□-2C01	HRM□-2C05
Contact Rating		W	10	
Max.Switching Voltage (Max DC/Peak AC)		V	240	2500
Max.Switching Current (Max DC/Peak AC)		A	4.0	3.0
Max.Carry Current		A	4.0	3.2
Contact Resistance		mΩ	200	150
Dielectric Strength (static)	Between contact	VDC	1000	5000
	Contact to coil	VDC	10000	
Insulation Resistance		Ω	10 ⁹	10 ¹⁰
Operate Time		ms	4.5	4.5
Release Time		ms	4.0	3.7
Vibration(0~2000Hz)		G	20	
Shock(11ms, 1/2 sine)		G	50	
Operating Temp		℃	-20~+70	
Storage Temp		℃	-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 (±10%Ω at 20℃)
HRM□-2C□	5	4	0.5	6.5	50
	12	9	1	15	200
	24	18	2	29	600

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4 Example of order marking

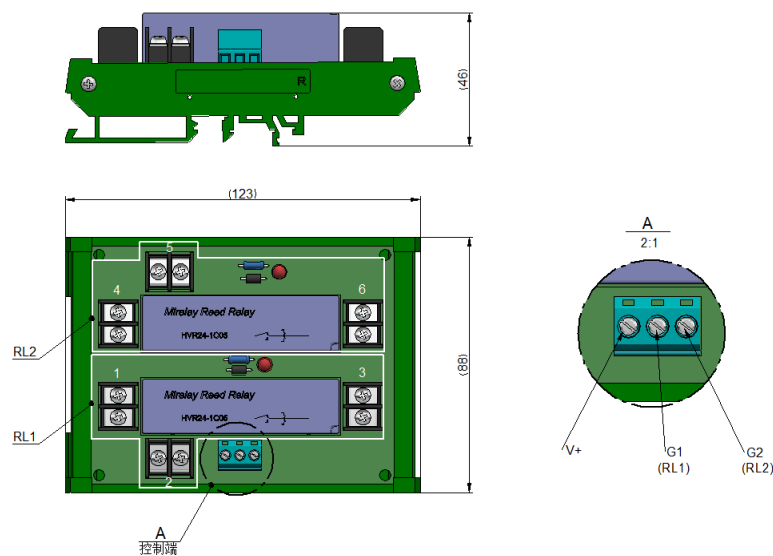
HRM □ - □ □ (XXX)

① ② ③ ④ ⑤

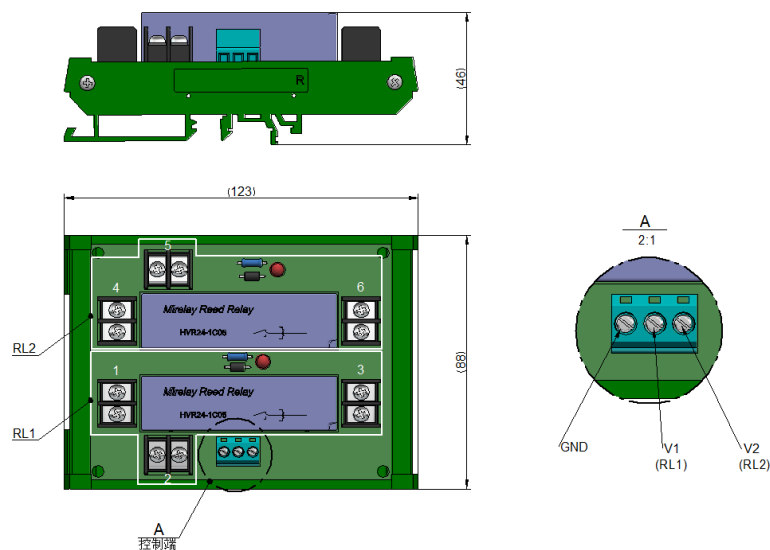
- ① Product model: HRM
- ② Nominal coil voltage: 05: 5VDC、12: 12VDC、24: 24VDC
- ③ Contact form: 2C: 2 Form C
- ④ Breakdown voltage: 01: 1KV、05: 5KV
- ⑤ Special code: Customer special requirement

5 Outline drawing

1) V+



2) V- (GND)



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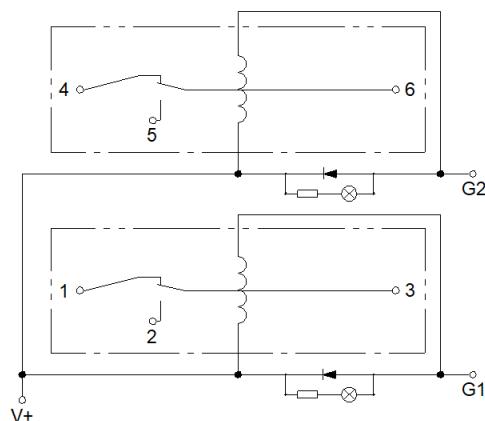
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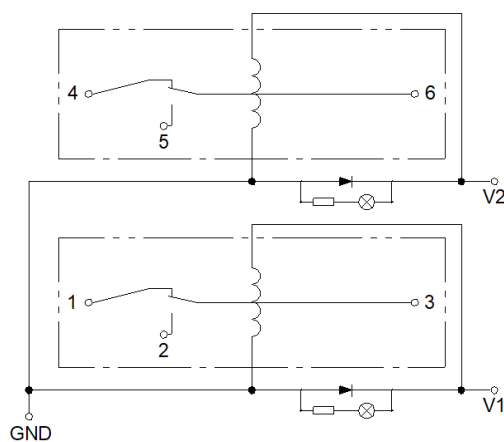
POSTAL CODE:200063

6 Wiring diagram

1) V+



2) V- (GND)



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℃ and the time does not exceed 5s.

⚠Statement:

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HRM(6A06) Series

High voltage Reed Relay Module

1 Feature

- ◆ 6 Channel high voltage relay module
- ◆ Dielectric strength up to 6 KVDC
- ◆ DIN Guide mounting
- ◆ LED indicate light
- ◆ Professional circuit protection
- ◆ Custom Design, conforming to Rohs directive



2 Performance Data

Paramenter		Units	Value
Relay Model		/	HRM□-6A06
Contact Rating		W	100
Max.Switching Voltage (Max DC/Peak AC)		V	1000
Max.Switching Current (Max DC/Peak AC)		A	1.0
Max.Carry Current		A	2.5
Contact Resistance		mΩ	300
Dielectric Strength (static)	Between contact	VDC	6000
	Contact to coil	VDC	6000
Insulation Resistance		Ω	10 ¹¹
Operate Time		ms	1.0
Release Time		ms	0.1
Vibration(0~2000Hz)		G	20
Shock(11ms, 1/2 sine)		G	50
Operating Temp		℃	-20~+70
Storage Temp		℃	-35~+105
Life Expectancy		Ops	5 × 10 ⁷ (at 500VDC-10mA)
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 (±10%Ω at 20℃)
HRM□-6A06	5	4	0.5	7	120
	12	9	1	16	250
	24	18	2	29	1600

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POSTAL CODE:200063

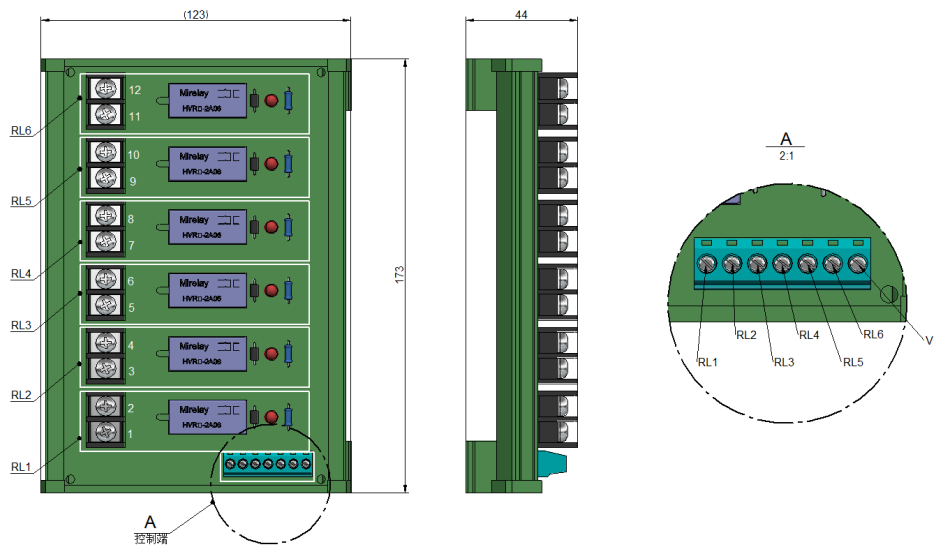
4 Example of order marking

HRM □ - □ □ (XXX)
 ① ② ③ ④ ⑤

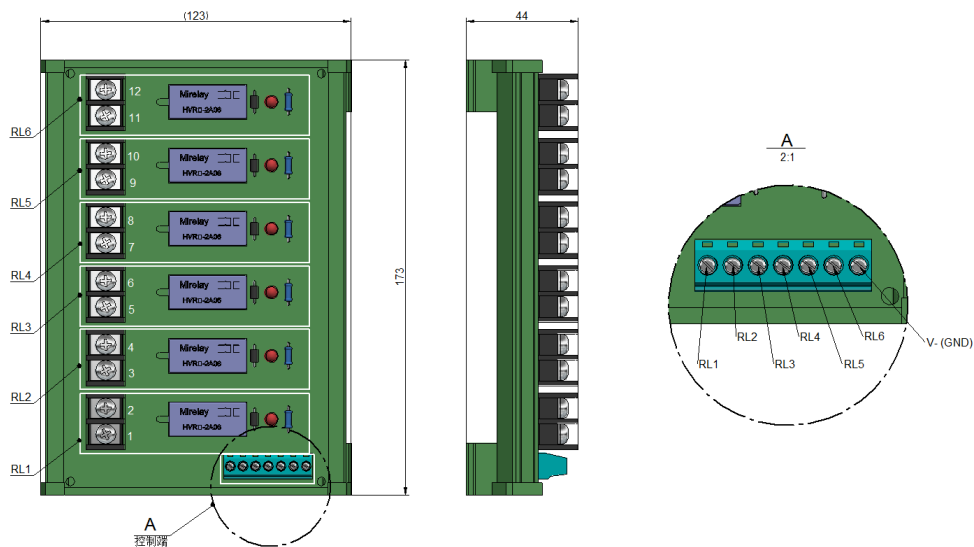
- ① Product model: HRM
- ② Nominal coil voltage: 05: 5VDC、12: 12VDC、24: 24VDC
- ③ Contact form: 6A: 6 Form A
- ④ Breakdown voltage: 06: 6KV
- ⑤ Special code: Customer special requirement

5 Outline drawing

1) V+



2) V- (GND)



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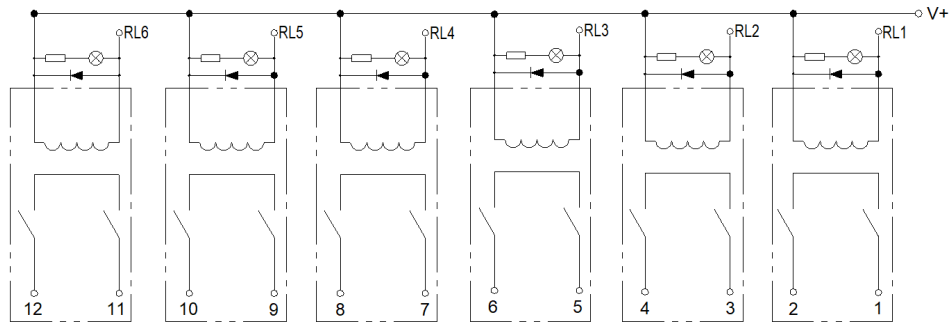
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邮政编码：200063

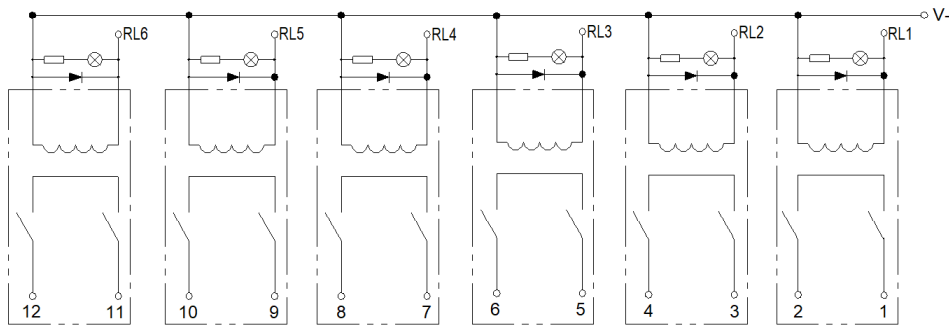
POSTAL CODE:200063

6 Wiring diagram

1) V+



2) V- (GND)



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℃ and the time does not exceed 5s.

⚠Statement:

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HRM(6A07) Series

High voltage Reed Relay Module

1 Feature

- ◆ 6 Channel high voltage relay module
- ◆ Dielectric strength up to 7 KVDC
- ◆ DIN Guide mounting
- ◆ LED indicate light
- ◆ Professional circuit protection
- ◆ Custom Design, conforming to Rohs directive



2 Performance Data

Paramenter		Units	Value
Relay Model		/	HRM□-6A07
Contact Rating		W	100
Max.Switching Voltage (Max DC/Peak AC)		V	1000
Max.Switching Current (Max DC/Peak AC)		A	1.0
Max.Carry Current		A	2.5
Contact Resistance		mΩ	300
Dielectric Strength (static)	Between contact	VDC	7000
	Contact to coil	VDC	7000
Insulation Resistance		Ω	10 ¹¹
Operate Time		ms	1.0
Release Time		ms	0.1
Vibration(0~2000Hz)		G	20
Shock(11ms, 1/2 sine)		G	50
Operating Temp		℃	-20~+70
Storage Temp		℃	-35~+105
Life Expectancy		Ops	5 × 10 ⁷ (at 500VDC-10mA)
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 (±10%Ω at 20℃)
HRM□-6A07	5	4	0.5	7	70
	12	9	1	16	400
	24	18	2	29	1100

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4 Example of order marking

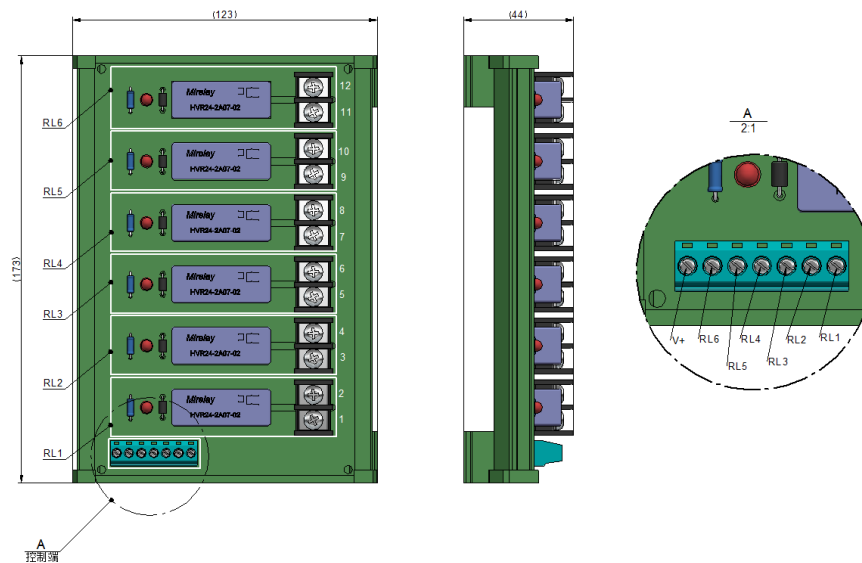
HRM □ - □ □ (XXX)

① ② ③ ④ ⑤

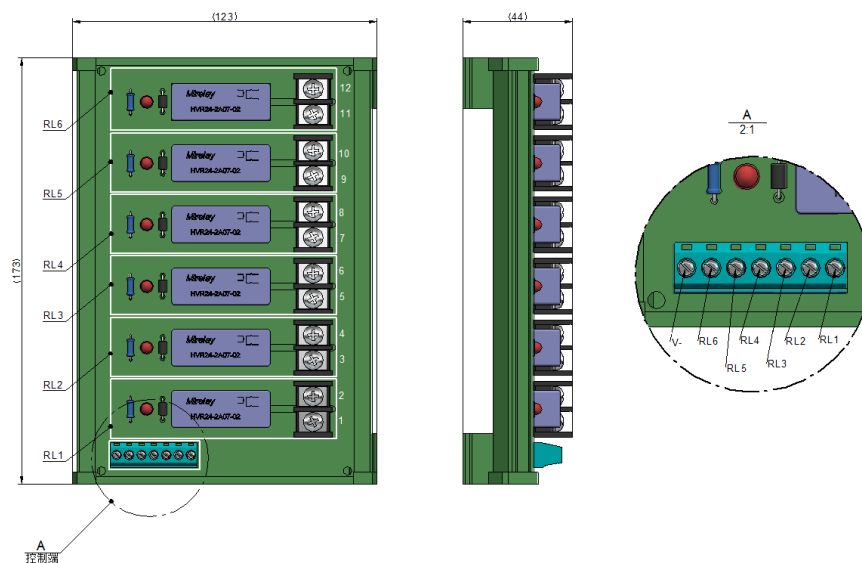
- ① Product model: HRM
- ② Nominal coil voltage: 05: 5VDC、12: 12VDC、24: 24VDC
- ③ Contact form: 6A: 6 Form A
- ④ Breakdown voltage: 07: 7KV
- ⑤ Special code: Customer special requirement

5 Outline drawing

1) V+



2) V- (GND)



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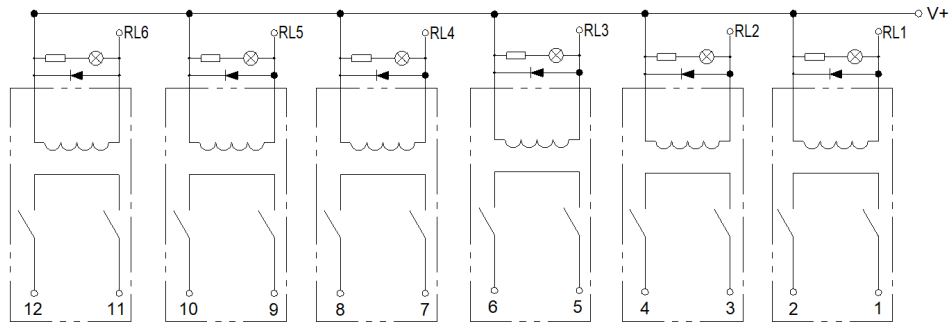
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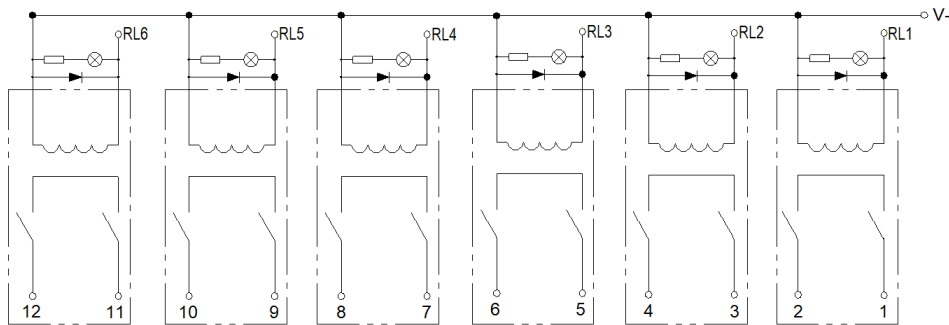
POSTAL CODE:200063

6 Wiring diagram

1) V+



2) V- (GND)



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℃ and the time does not exceed 5s.

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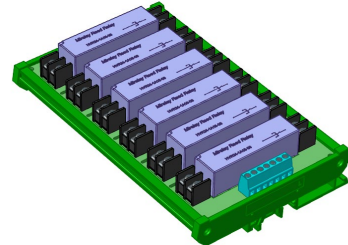
POSTAL CODE: 200063

HRM(6A10/15) Series

High voltage Reed Relay Module

1 Feature

- ◆ 6 Channel high voltage relay module
- ◆ Dielectric strength up to 15 KVDC
- ◆ DIN Guide mounting
- ◆ LED indicate light
- ◆ Professional circuit protection
- ◆ Custom Design, conforming to Rohs directive



2 Performance Data

Paramenter		Units	Value	
Relay Model		/	HRM□-6A10	HRM□-6A15
Contact Rating		W	10	
Max.Switching Voltage (Max DC/Peak AC)		V	7000	10000
Max.Switching Current (Max DC/Peak AC)		A	3.5	
Max.Carry Current		A	5.0	
Contact Resistance		mΩ	150	
Dielectric Strength (static)	Between contact	VDC	10000	15000
	Contact to coil	VDC	15000	
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		℃	-20~+70	
Storage Temp		℃	-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 (±10%Ω at 20℃)
HRM□-6A□	5	4	0.5	6.5	50
	12	9	1	15	200
	24	18	2	29	600

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4 Example of order marking

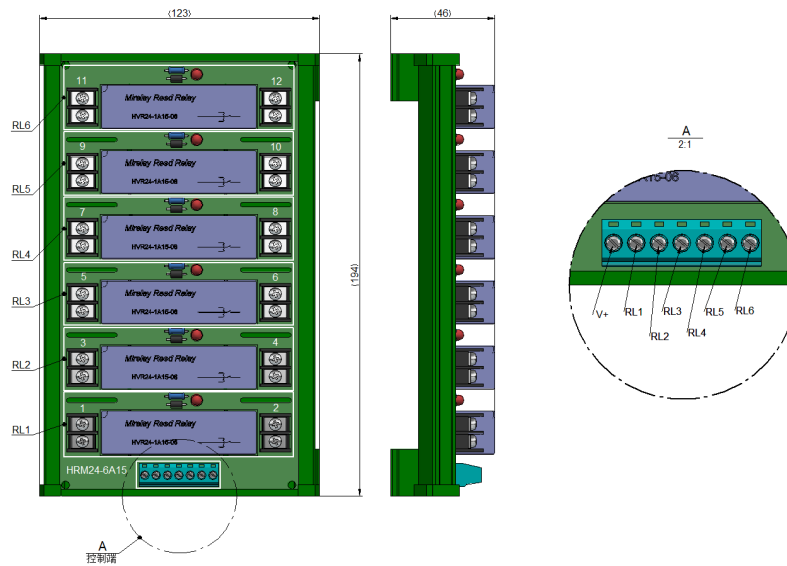
HRM □ - □ □ (XXX)

① ② ③ ④ ⑤

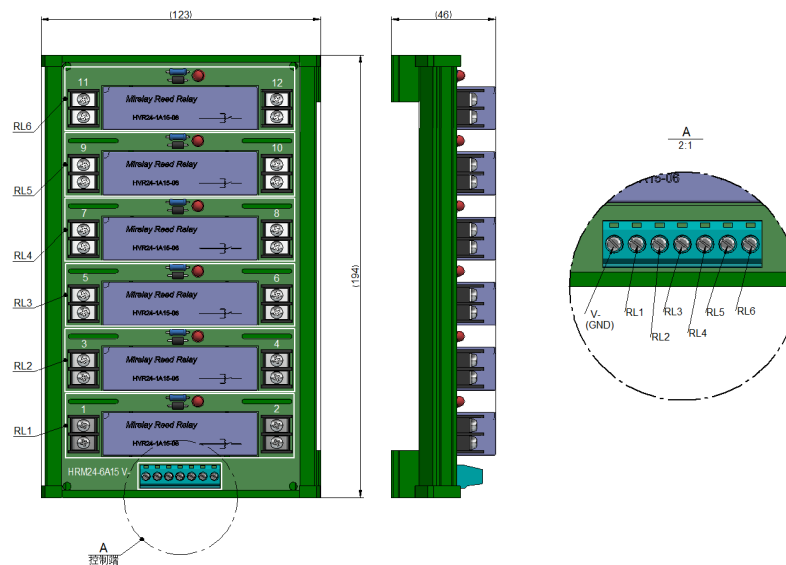
- ① Product model: HRM
- ② Nominal coil voltage: 05: 5VDC、12: 12VDC、24: 24VDC
- ③ Contact form: 6A: 6 Form A
- ④ Breakdown voltage: 10: 10KV、15: 15KV
- ⑤ Special code: Customer special requirement

5 Outline drawing

1) V+



2) V- (GND)



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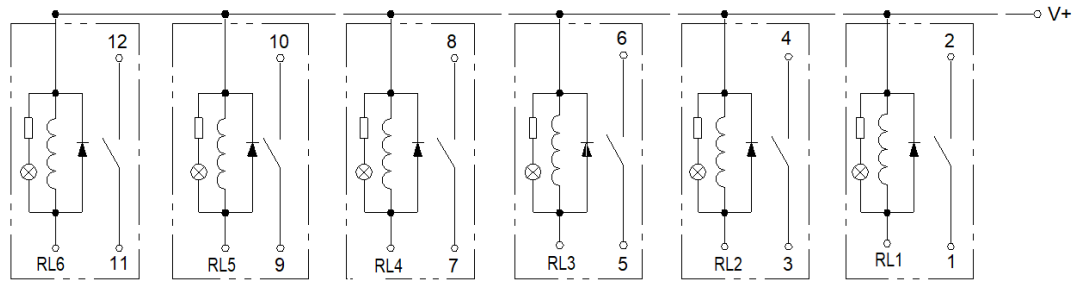
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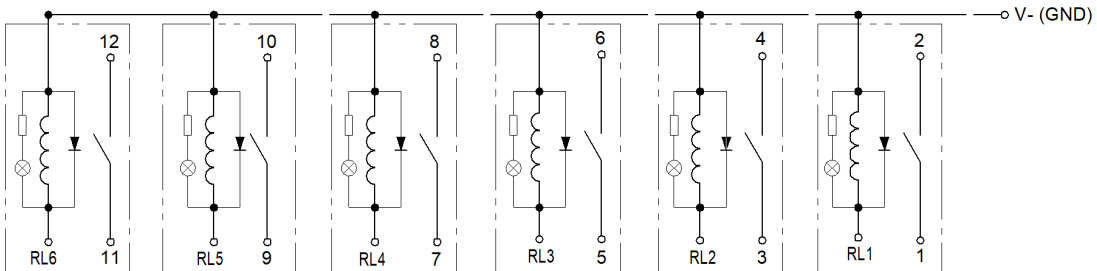
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6 Wiring diagram

1) V+



2) V- (GND)



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℃ and the time does not exceed 5s.

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PB Series

Reed Relay

1 Feature

- ◆ Miniature Reed relay
- ◆ High Insulation resistance, up to $10^9\Omega$
- ◆ High speed switch,high reliability,long life sealed contact
- ◆ Custom Design, conforming to Rohs directive



2 Performance Data

Paramenter		Units	Value
Relay Model		/	PB-1C□
Contact Rating		W	5
Max.Switching Voltage (Max DC/Peak AC)		V	200
Max.Switching Current (Max DC/Peak AC)		A	0.25
Max.Carry Current	at 60℃	A	0.5
Contact Resistance		mΩ	150
Dielectric Strength (static)	Between contact	VDC	200
	Contact/shield to coil	VDC	500
Insulation Resistance		Ω	10^9
Operate Time		ms	0.5
Release Time		ms	0.5
Vibration(0~2000Hz)		G	20
Shock(11ms, 1/2 sine)		G	50
Operating Temp		℃	-20~+70
Storage Temp		℃	-35~+105
Life Expectancy		Ops	5×10^7 (at 12VDC-10mA)
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℃)
PB-1C□	5	3.8	0.75	10	500

4 Example of order marking

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① ② ③ ④

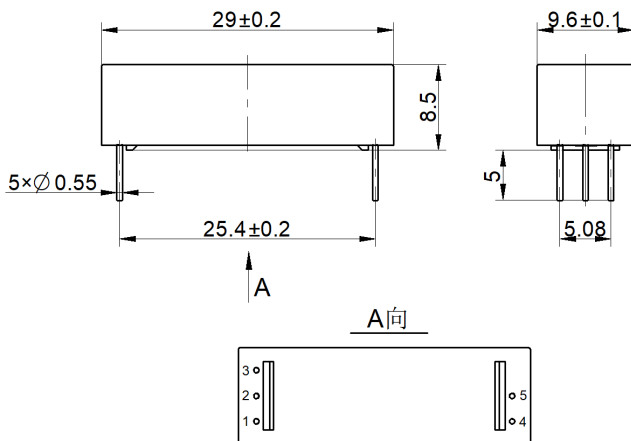
- ⑮ Product model: PB

- ⑩ Contact form: 1C: 1 Form C

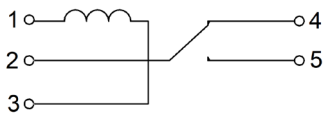
- ⑪ Nominal coil voltage: 05: 5VDC

- ⑱ Special code: Customer special requirement

5 Outline drawing



6 Wiring diagram



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℃ and the time does not exceed 5

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SIP-HV Series

High voltage Reed Relay

1 Feature

- ◆ Dielectric strength up to 4000 VDC
- ◆ High speed switch, high voltage up to 1000 VDC
- ◆ High Insulation resistance, up to $10^{12}\Omega$
- ◆ Low contact resistance, excellent lifetime characteristics
- ◆ Magnetic shield-reduces interaction
- ◆ Custom Design, conforming to Rohs directive



2 Performance Data

Parameter		Units	Value
Relay Model		/	SIP-HV1A□
Contact Rating		W	100
Max.Switching Voltage (Max DC/Peak AC)		V	1000
Max.Switching Current (Max DC/Peak AC)		A	1.0
Max.Carry Current	at 60°C	A	2.5
Contact Resistance		mΩ	150
Dielectric Strength (static)	Between contact	VDC	4000
	Contact/shield to coil	VDC	4000
Insulation Resistance		Ω	10^{12}
Operate Time		ms	1.0
Release Time		ms	0.25
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	5×10^8 (at 5VDC-10mA)
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 (±10%Ω at 20°C)
SIP-HV1A□	5	3.5	0.5	15	120
	12	9	1.2	35	500
	24	17	2.4	50	2000

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4 Example of order marking

SIP-HV □ - □ □ - (XXX)
 ① ② ③ ④ ⑤

37 Product model: SIP-HV

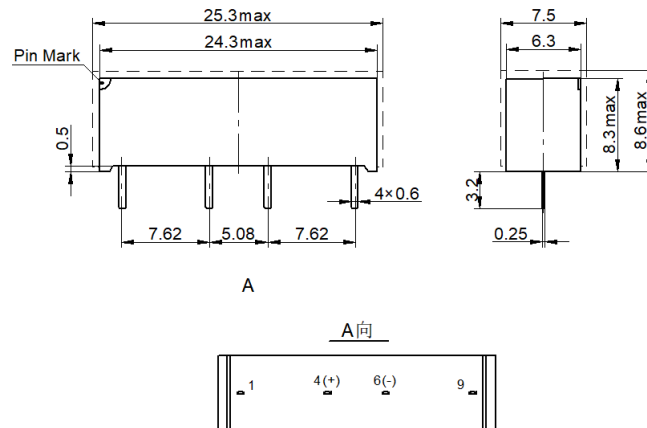
38 Contact form: 1A: 1 Form A

39 Nominal coil voltage: 05: 5VDC、12: 12VDC、24: 24VDC

40 Features: Blank: Standard、D: With Diode、S: With magnetic shield、DS: With Diode and magnetic shield

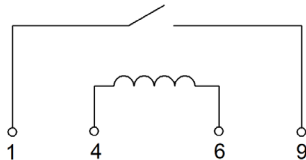
41 Special code: Customer special requirement

5 Outline drawing

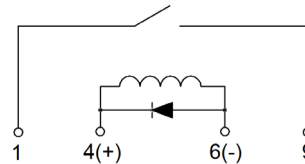


6 Wiring diagram

1) 无二极管



2) 有二极管



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.
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VSIP Series

Reed Relay

1 Feature

- ◆ Molded thermoset body on integral lead frame design
- ◆ Optional coil suppression diode protects coil drive circuits
- ◆ High Insulation resistance, up to $10^{12}\Omega$
- ◆ High speed switch,high reliability,long life sealed contact
- ◆ Magnetic shield-reduces interaction
- ◆ Custom Design, conforming to Rohs directive



2 Performance Data

Parameter		Units	Value
Relay Model		/	VSIP-1A□
Contact Rating		W	10
Max.Switching Voltage (Max DC/Peak AC)		V	200
Max.Switching Current (Max DC/Peak AC)		A	0.5
Max.Carry Current	at 60°C	A	1.0
Contact Resistance		mΩ	150
Dielectric Strength (static)	Between contact	VDC	150
	Contact/shield to coil	VDC	1400
Insulation Resistance		Ω	10^{12}
Operate Time		ms	0.5
Release Time		ms	0.1
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 10VDC-10mA)
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)
VSIP-1A□	5	4	0.4	10	500
	12	9	1	24	1000

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4 Example of order marking

VSIP □ - □ □ - (XXX)
 ① ② ③ ④ ⑤

42 Product model: MSIP

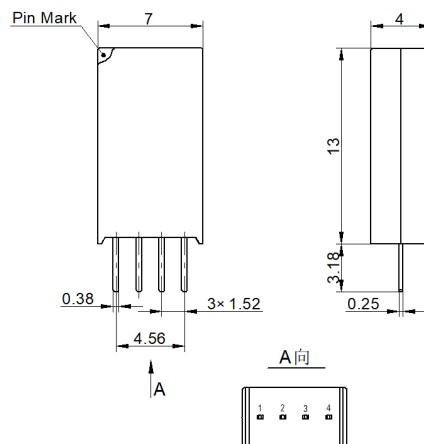
43 Contact form: 1A: 1 Form A

44 Nominal coil voltage: 05: 5VDC、12: 12VDC、24: 24VDC

45 Pin type: 01、02

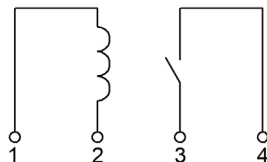
46 Special code: Customer special requirement

5 Outline drawing

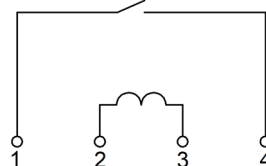


6 Wiring diagram

1) VSIP-1A□-01



2) VSIP-1A□-02



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.
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- ※ 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℃ and the time does not exceed 5s.

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MSIP Series

Reed Relay

1 Feature

- ◆ Molded thermoset body on integral lead frame design
- ◆ Optional coil suppression diode protects coil drive circuits
- ◆ High Insulation resistance, up to $10^{12}\Omega$
- ◆ High speed switch,high reliability,long life sealed contact
- ◆ Magnetic shield-reduces interaction
- ◆ Custom Design, conforming to Rohs directive



2 Performance Data

Paramenter		Units	Value
Relay Model		/	MSIP-1A□
Contact Rating		W	10
Max.Switching Voltage (Max DC/Peak AC)		V	250
Max.Switching Current (Max DC/Peak AC)		A	0.5
Max.Carry Current	at 60°C	A	1.0
Contact Resistance		mΩ	100
Dielectric Strength (static)	Between contact	VDC	250
	Contact/shield to coil	V	1500
Insulation Resistance		Ω	10^{12}
Operate Time		ms	0.5
Release Time		ms	0.3
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 10VDC-10mA)
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)
MSIP-1A□	5	4	0.4	21	500
	12	9	1	30	1000

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4 Example of order marking

MSIP - - (XXX)
 ① ② ③ ④ ⑤

47 Product model: MSIP

48 Contact form: 1A: 1 Form A

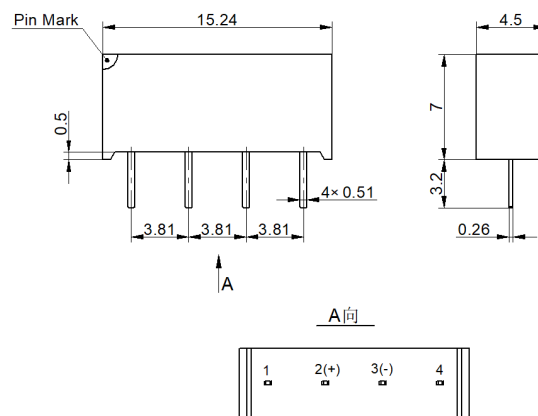
49 Nominal coil voltage: 05: 5VDC⁽¹⁾、12: 12VDC、24: 24VDC

50 Features: Blank: Standard、B: With Diode、S: With magnetic shield、BS: With Diode and magnetic shield

51 Special code: Customer special requirement

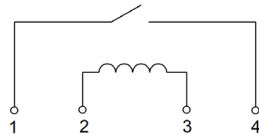
Note: (1) 5V DC is high resistance specification, suffix with “-HR”.

5 Outline drawing

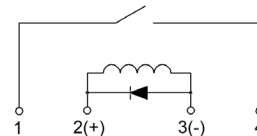


6 Wiring diagram

1)



2)



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℃ and the time does not exceed 5s.

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