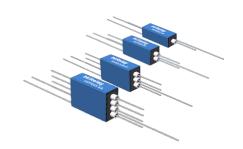
HVFR Series

High voltage Reed Relay

1 Feature

- ◆ High power reed relay with dielectric strength up to 4000VDC
- ♦ High carry current
- lacktriangle 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

Paramente	Paramenter		Units	Value
Relay Model		/	HVFR□-□	
Contact Rati	Contact Rating		W	100
Max.Swichin	g Voltage	e (Max DC/Peak AC)	V	1000
Max.Swichin	g Curren	t (Max DC/Peak AC)	Α	1.0
Max.Carry Cu	irrent	at 60°C	Α	2.5
Contact Res	istance		mΩ	120
Dielectric	Betwe	en contact	V	4000
Strength	Contac	Contact/shield to coil		4000
(static)	Contacts to shield		V	4000
Insulation R	esistanc	e	Ω	1013
Operate Tim	ne		ms	1.0
Release Tim	e		ms	1.0
Vibration(0	~2000H	z)	G	20
Shock(11ms	, 1/2 si	ne)	G	50
Operating Te	Operating Temp		$^{\circ}$	-20~+70
Storage Tem	пр		$^{\circ}$	-35∼+105
Life Expecta	ncy		Ops	5×10 ⁷ (at 500VDC-100mA)
Outline Dim	ensions		/	Reference outline drawing

Model	Nominal Voltage (VDC)	Pickup Voltage Max.(VDC)	Dropout Voltage Min.(VDC)	Operate Voltage Max.(VDC)	Coil Resistance (±10% Ω at 20 $^{\circ}$ C)
10/5D = 4.4	5	4	0.5	6.5	100
HVFR□-1A	12	9	1	16	400
HVFR□-2A	24	18	2	29	1600

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Model	Nominal Voltage (VDC)	Pickup Voltage Max.(VDC)	Dropout Voltage Min.(VDC)	Operate Voltage Max.(VDC)	Coil Resistance (±10%Ω at 20°C)
HVFR□-3A	12	9	1	16	300
	24	18	2	29	1200
	12	9	1	16	300
HVFR□-4A	24	18	2	29	1200

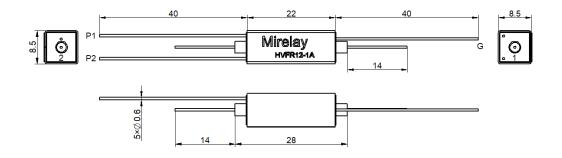
4 Example of order marking



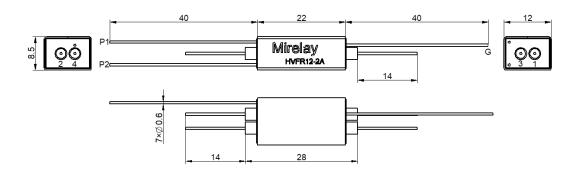
- 1 Product model: HGFR
- ② Nominal coil voltage: 05: 5VDC、12: 12VDC、24: 24VDC
- ③ Contact form: 1A: 1 Form A、2A: 2 Form A、3A: 3 Form A、4A: 4 Form A
- 4 Layout: Blank: Verlical mount, 01: Flat mount
- ⑤ Special code: Customer special requirement

5 Outline drawing

1) HVFR□-1A

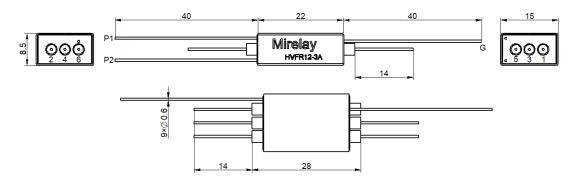


2) HVFR□-2A

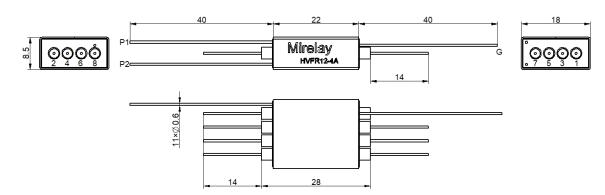


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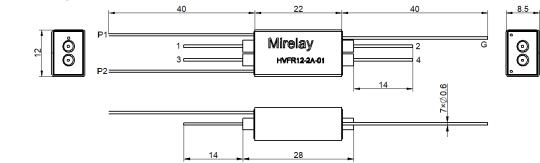
3) HVFR□-3A



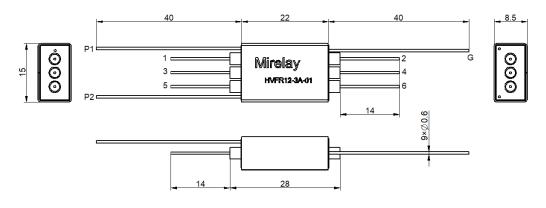
4) HVFR□-4A



5) HVFR□-2A-01

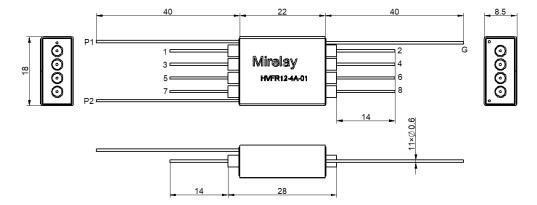


6) HVFR□-3A-01



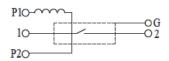
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7) HVFR□-4A-01

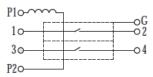


6 Wiring diagram

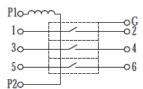
1) HVFR□-1A



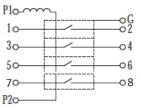
2) HVFR□-2A、HVFR□-2A-01



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.
- st 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.

HRX Series

High voltage Reed Relay

1 Feature

- ◆ High power reed relay with dielectric strength up to 15VDC
- ♦ High carry current
- lacktriangle 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	Val	ue	
Relay Model		/	HRX□-1A10	HRX□-1A15	
Contact Rat	ing	W	5	0	
Max.Swichir	ng Voltage (Max DC/Peak AC)	V	7500	10000	
Max.Swichir	ng Current (Max DC/Peak AC)	Α	3.	0	
`Max.Carry C	urrent	Α	5.	0	
Contact Res	sistance	mΩ	15	50	
Dielectric	Between contact	V	10000	15000	
Strength	Contact/shield to coil	V	15000		
(static)	Contacts to shield	V	15000		
Insulation R	esistance	Ω	1012		
Operate Tin	ne	ms	3.0		
Release Tim	ne	ms	1.	5	
Vibration(0	\sim 2000Hz)	G	2	0	
Shock(11ms	s,1/2 sine)	G	5	0	
Operating T	Operating Temp		-20∼	·+70	
Storage Ten	Storage Temp		-35∼+105		
Life Expecta	incy	Ops	5×10 ⁷ (at 500VDC-100mA)		
Outline Dim	nensions	/	Reference ou	tline drawing	

Model	Nominal Voltage (VDC)	Pickup Voltage Max.(VDC)	Dropout Voltage Min.(VDC)	Operate Voltage Max.(VDC)	Coil Resistance (±10% Ω at 20 $^{\circ}$ C)
HRX□-1A□	10	7.5	1	14	120
	12	9	1	16	200
	24	18	2	29	600

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4 Example of order marking

 $\begin{array}{c|cccc} \underline{\mathsf{HRX}} & \underline{\square} & - & \underline{\square} & \underline{\square} & \underline{\square} - \underline{(\mathsf{XXX})} \\ \hline 1 & 2 & 3 & 4 & 5 & 6 \end{array}$

1 Product model: HRX

② Nominal coil voltage: 05: 5VDC、12: 12VDC、24: 24VDC

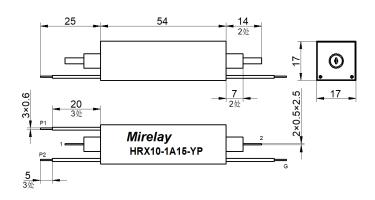
3 Contact form: 1A: 1 Form A

4 Breakdown voltage: 10: 10KV \ 15: 15KV

⑤ Features: Blank: Standard 、YP: Electrostatic shield

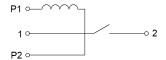
6 Special code: Customer special requirement

5 Outline drawing

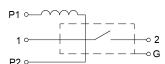


6 Wiring diagram

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.
- st When the relay is used for wave soldering, the maximum temperature is 260°C and the time does not exceed 5s.

⚠Statement:

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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
- lacktriangle High Insulation resistance, up to $10^{12}\Omega$
- ◆ Low contact resistance, excellent lifetime characteristics
- ◆ Custom Design, conforming to Rohs directive



2 Performance Data

Paramente	er		Units		Value		
Relay Model			/	HVR□-□10-□	HVR□-□15-□	HVR□-□20-□	
Contact Rat	ing		W		50		
Max.Swichin	g Voltage	e (Max DC/Peak AC)	V	7500	10	000	
Max.Swichin	g Curren	t (Max DC/Peak AC)	Α		3.0		
Max.Carry Cu	ırrent	at 60°C	Α		5.0		
Contact Res	istance		mΩ	150)	200	
Dielectric	Betwe	en contact	V	10000	15000	20000	
Strength	Contac	ct/shield to coil	V	15000		20000	
(static)	Contac	cts to shield	V	15000 20000			
Insulation R	esistanc	e	Ω	1012			
Operate Tim	ne		ms	3.0			
Release Tim	ie		ms		1.5		
Vibration(0	~2000H	lz)	G	20			
Shock(11ms	, 1/2 si	ine)	G	50			
Operating To	Operating Temp		$^{\circ}$		-20∼+70		
Storage Temp		$^{\circ}$	-35∼+105				
Life Expectancy		Ops	5×10 ⁷ (at 500VDC-100mA)				
Outline Dim	ensions		/	Reference outline drawing			

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

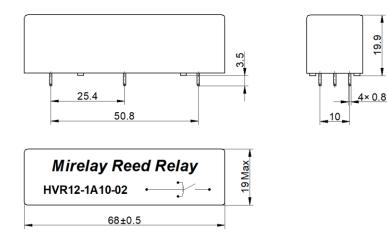
4 Example of order marking

 $\begin{array}{c|ccccc} \underline{\mathsf{HVR}} & \underline{\square} & - & \underline{\square} & \underline{\square} & - & \underline{\square} & - (\mathbf{XXX}) \\ \hline 1 & 2 & 3 & 4 & 5 & 6 \end{array}$

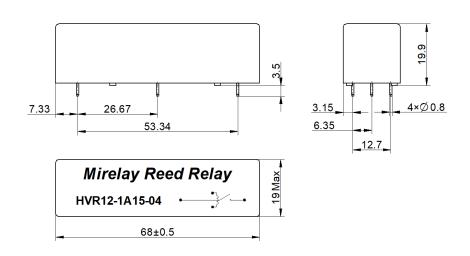
- 1 Product model: HVR
- ② Nominal coil voltage: 05: 5VDC、12: 12VDC、24: 24VDC
- 3 Contact form: 1A: 1 Form A, 1B: 1 Form B
- 4 Breakdown voltage: 10: 10KV \ 15: 15KV \ 20: 20KV
- ⑤ Pin type: 02、04、06、150、156
- 6 Special code: Customer special requirement

5 Outline drawing

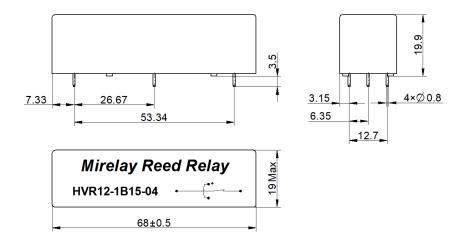
1) HVR□-1A□-02



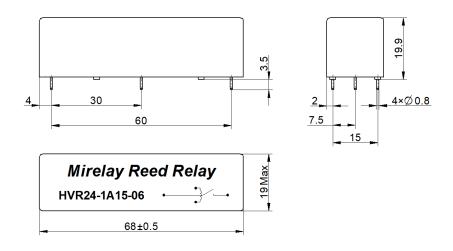
2) HVR□-1A□-04



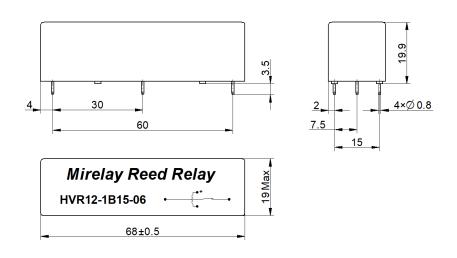
3) HVR□-1B□-04



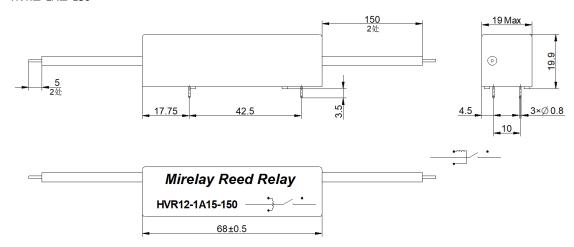
4) HVR□-1A□-06



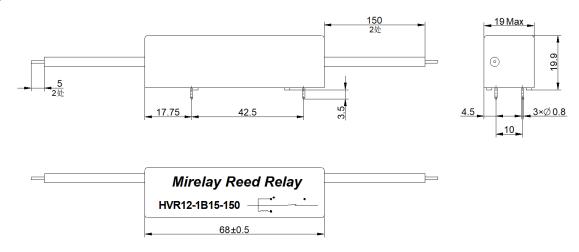
5) HVR□-1B□-06



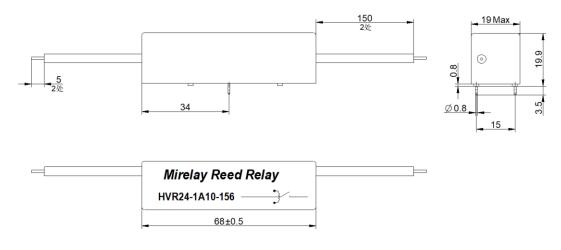
6) HVR□-1A□-150



7) HVR□-1B□-150

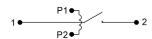


8) HVR□-1A□-156

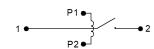


6 接线图

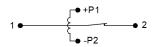
1) HVR□-1A□-02



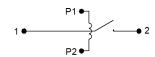
2) HVR□-1A□-04



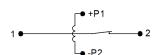
3) HVR□-1B□-04



4) HVR□-1A□-06



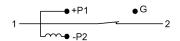
5) HVR□-1B□-06



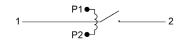
6) HVR□-1A□-150



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.
- st When the relay is used for wave soldering, the maximum temperature is 260 $^{\circ}$ 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.

HVR Series(4KV&6KV)

High voltage Reed Relay

1 Feature

- ◆ High power reed relay with dielectric strength up to 6KV DC
- ♦ High carry current
- ightharpoonup High Insulation resistance, up to $10^{12}Ω$
- ◆ Low contact resistance, excellent lifetime characteristics
- ◆ Custom Design, conforming to Rohs directive



2 Performance Data

Paramenter			Units	Va	lue	
Relay Mode	Relay Model		/	HVR□-2A04	HVR□-2A06	
Contact Rat	ing		W	10	00	
Max.Swichin	g Voltag	e (Max DC/Peak AC)	V	10	000	
Max.Swichin	g Curren	t (Max DC/Peak AC)	Α	1	.0	
Max.Carry Cu	ırrent	at 60°C	Α	2	.5	
Contact Res	istance		mΩ	150	300	
Dielectric	Betwe	en contact	٧	4000	6000	
Strength	Contac	Contact/shield to coil		4000	6000	
(static)	Contacts to shield		V	4000	6000	
Insulation R	esistanc	e	Ω	1012		
Operate Tim	ne		ms	1	.0	
Release Tim	ie		ms	0	.1	
Vibration(0	~2000H	lz)	G	2	0	
Shock(11ms	s, 1/2 si	ine)	G	5	50	
Operating Temp		$^{\circ}$	-20^	~+70		
Storage Temp		$^{\circ}$	-35∼+105			
Life Expecta	Life Expectancy		Ops	5×10 ⁷ (at 500VDC-100mA)		
Outline Dim	ensions		/	Reference ou	itline drawing	

Model	Nominal Voltage (VDC)	Pickup Voltage Max.(VDC)	Dropout Voltage Min.(VDC)	Operate Voltage Max.(VDC)	Coil Resistance (±10%Ω at 20°C)
	5	4	0.5	7	120
HVR□-2A	12	9	1	16	250
	24	18	2	29	1600

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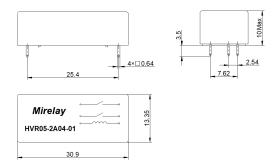
4 Example of order marking

 $\begin{array}{c|ccccc} \underline{\mathsf{HVR}} & \underline{\square} & - & \underline{\square} & \underline{\square} & - & \underline{\square} & - (\mathbf{XXX}) \\ \hline (1) & 2) & 3) & 4) & 5) & 6 \end{array}$

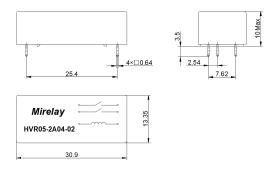
- 6 Product model: HVR
- 7 Nominal coil voltage: 05: 5VDC \ 12: 12VDC \ 24: 24VDC
- Contact form: 2A: 2 Form A
- 9 Breakdown voltage: 04: 4KV \ 06: 6KV
- ① Pin type: 01、02
- 6 Special code: Customer special requirement

5 Outline drawing

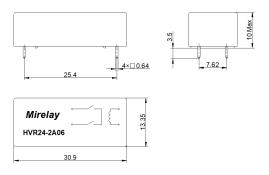
1) HVR□-2A04-01



2) HVR□-2A04-02



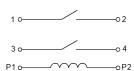
3) HVR□-2A06



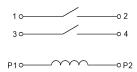
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6 Wiring diagram

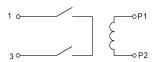
1) HVR□-2A04-01



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.
- st When the relay is used for wave soldering, the maximum temperature is 260°C and the time does not exceed 5s.

△Statement:

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HVR Series

High voltage Reed Relay

1 Feature

- ♦ High power reed relay with dielectric strength up to 4KV DC
- ♦ High carry current
- ightharpoonup High Insulation resistance, up to $10^{12}Ω$
- ◆ Low contact resistance, excellent lifetime characteristics
- ◆ Custom Design, conforming to Rohs directive



2 Performance Data

Paramenter Units Value			lue				
Relay Mode	I		/	HVR1A□	HVR1B□		
Contact Rat	ing		W	10	00		
Max.Swichin	g Voltage	e (Max DC/Peak AC)	V	10	00		
Max.Swichin	g Curren	t (Max DC/Peak AC)	Α	1.	0		
Max.Carry Cu	irrent	at 60°C	Α	2.	5		
Contact Res	istance		mΩ	15	50		
Dielectric	Betwe	en contact	V	1000/2000/3000/4000			
Strength	Contac	Contact to coil		4000			
(static)	Contacts to shield		V	40	4000		
Insulation R	esistanc	e	Ω	1012			
Operate Tim	ne		ms	1.0			
Release Tim	e		ms	0.	1		
Vibration(0	~2000H	lz)	G	2	0		
Shock(11ms	, 1/2 si	ine)	G	5	0		
Operating To	Operating Temp		$^{\circ}$	-20~	~+70		
Storage Tem	Storage Temp		$^{\circ}$	-35∼	+105		
Life Expecta	ncy		Ops	5×10 ⁷ (at 500VDC-100mA)			
Outline Dim	ensions		/	Reference outline drawing			

Model	Nominal Voltage (VDC)	Pickup Voltage Max.(VDC)	Dropout Voltage Min.(VDC)	Operate Voltage Max.(VDC)	Coil Resistance (±10%Ω at 20°C)
	5	4	0.5	7	100
HVR1A□	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°C)
	5	4	0.5	7	150
HVR1B□	12	9	1	16	250
	24	18	2	29	1600

4 Example of order marking

(1) Product model: HVR

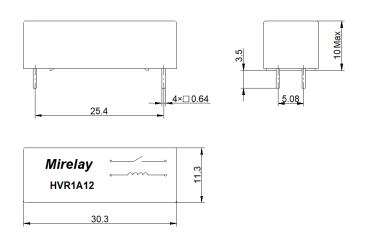
(12) Contact form: 1A: 1 Form A, 1B: 1 Form B

(13) Nominal coil voltage: 05: 5VDC \, 12: 12VDC \, 24: 24VDC

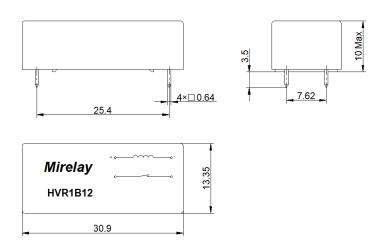
(14) Special code: Customer special requirement

5 Outline drawing

1) HVR1A□



2) HVR1B□



6 Wiring diagram

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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.
- st When the relay is used for wave soldering, the maximum temperature is 260°C and the time does not exceed 5s.

▲Statement:

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PB Series

Reed Relay

1 Feature

- ◆ Miniature Reed relay
- lacktriangle 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

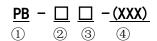
Paramente	Paramenter		Units	Value
Relay Mode	I		/	PB-1C□
Contact Rati	ing		W	5
Max.Swichin	g Voltage	e (Max DC/Peak AC)	V	200
Max.Swichin	g Curren	t (Max DC/Peak AC)	Α	0.25
Max.Carry Cu	irrent	at 60°C	Α	0.5
Contact Res	istance		mΩ	150
Dielectric	Betwe	en contact	VDC	200
Strength (static)	Contac	ct/shield to coil	VDC	500
Insulation R	Insulation Resistance		Ω	109
Operate Tim	ne		ms	0.5
Release Tim	e		ms	0.5
Vibration(0	~2000H	z)	G	20
Shock(11ms	, 1/2 si	ne)	G	50
Operating Temp		$^{\circ}$	-20∼+70	
Storage Temp		$^{\circ}$	-35∼+105	
Life Expecta	ncy		Ops	5×10 ⁷ (at 12VDC-10mA)
Outline Dim	ensions		/	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)
	5	3.8	0.75	10	500
PB-1C□					

4 Example of order marking

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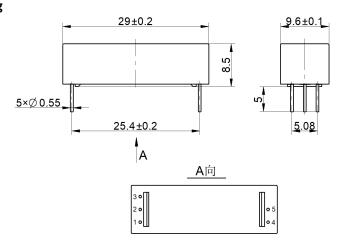


(15) Product model: PB

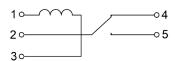
(6) Contact form: 1C: 1 Form C(7) Nominal coil voltage: 05: 5VDC

(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.
- st When the relay is used for wave soldering, the maximum temperature is 260 $^{\circ}$ and the time does not exceed 5s.

▲Statement:

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HRM(Group 6) Series

High voltage Reed Relay

1 Feature

- ♦ 6 Channel high voltage relay module
- ◆ Dielectric strength up to 6 KVDC
- ightharpoonup High Insulation resistance, up to $10^{12}Ω$
- ◆ LED indicate light
- ◆ DIN Guide or M4 screw mount avaiable
- ◆ Custom Design, conforming to Rohs directive



2 Performance Data

Paramente	er	Units	Value
Relay Mode	I	/	HRM□-6A06
Contact Rating		W	100
Max.Swiching Voltage (Max DC/Peak AC)		V	1000
Max.Swichin	g Current (Max DC/Peak AC)	Α	1.0
Max.Carry Cu	irrent	Α	2.5
Contact Res	istance	mΩ	300
Dielectric	Between contact	VDC	6000
Strength (static)	Contact to coil	VDC	6000
Insulation R	esistance	Ω	1012
Operate Tim	ne	ms	1.0
Release Tim	e	ms	0.1
Vibration(0	~2000Hz)	G	20
Shock(11ms	, 1/2 sine)	G	50
Operating Temp		$^{\circ}$	-20∼+70
Storage Temp		$^{\circ}$	-35∼+105
Life Expecta	ncy	Ops	5×10 ⁷ (at 500VDC-10mA)
Outline Dim	ensions	/	Reference outline drawing

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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4 Example of order marking

 $\begin{array}{c|ccccc} \underline{\mathsf{HRM}} & \underline{\square} & - & \underline{\square} & \underline{\square} & \underline{\square} - \underline{(\mathsf{XXX})} \\ \hline 1 & 2 & 3 & 4 & 5 & 6 \end{array}$

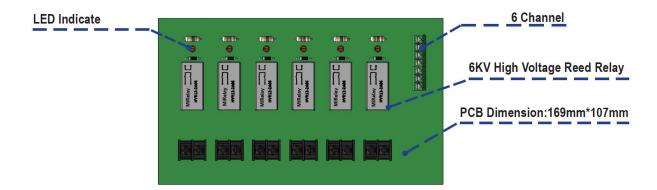
(19) Product model: HRM

20 Nominal coil voltage: 05: 5VDC \ 12: 12VDC \ 24: 24VDC

21 Contact form: 6A: 6 Form A22 Breakdown voltage: 06: 6KV

23 Assesories: Blank: None F: With plinth24 Special code: Customer special requirement

5 Outline drawing



6 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.
- st When the relay is used for wave soldering, the maximum temperature is 260°C and the time does not exceed 5s.

▲Statement:

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HRM(Group 2) Series

High voltage Reed Relay

1 Feature

- ◆ 2 Channel high voltage relay module
- ♦ Dielectric strength up to 15 KVDC
- Leading Global Manufacturer of Reed Relays
 High Insulation resistance, up to 10 Ω
- ◆ LED indicate light
- ◆ DIN Guide or M4 screw mount avaiable
- ◆ Custom Design, conforming to Rohs directive



2 Performance Data

Paramenter		Units	Value		
Relay Model		/	HRM□-2A10	HRM□-2A15	
Contact Rat	ing	W	1	0	
Max.Swichin	g Voltage (Max DC/Peak AC)	V	7000	10000	
Max.Swichin	g Current (Max DC/Peak AC)	Α	3	.5	
Max.Carry Cu	ırrent	Α	5	.0	
Contact Res	istance	mΩ	1!	50	
Dielectric	Between contact	VDC	10000	15000	
Strength (static)	Contact to coil	VDC	150	000	
Insulation R	esistance	Ω	10 ¹²		
Operate Tim	ne	ms	3.0		
Release Tim	e	ms	1.5		
Vibration(0	~2000Hz)	G	20		
Shock(11ms	5, 1/2 sine)	G	50		
Operating Temp		$^{\circ}$	-20∼+70		
Storage Temp		$^{\circ}$	-35∼+105		
Life Expecta	ncy	Ops	5×10 ⁷ (at 500VDC-10mA)		
Outline Dim	ensions	/	Reference ou	tline 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	30
	12	9	1	15	200
	24	18	2	29	600

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4 Example of order marking



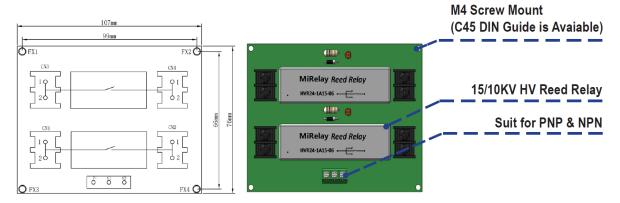
25 Product model: HRM

26 Nominal coil voltage: 05: 5VDC 12: 12VDC 24: 24VDC

27 Contact form: 2A: 2 Form A

28 Breakdown voltage: 10: 10KV、15: 15KV
29 Assesories: Blank: None、F: With plinth
30 Special code: Customer special requirement

5 Outline drawing



6 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.
- st When the relay is used for wave soldering, the maximum temperature is 260°C and the time does not exceed 5s.

△Statement:

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HRM(Group 12) Series

High voltage Reed Relay

1 Feature

- ◆ 12 Channel high voltage relay module
- ◆ Dielectric strength up to 4 KVDC
- lacktriangle High Insulation resistance, up to $10^{12}\Omega$
- ◆ LED indicate light
- ◆ DIN Guide or M4 screw mount avaiable
- ◆ Custom Design, conforming to Rohs directive



2 Performance Data

Paramente	er	Units	Value
Relay Mode	I	/	HRM□-12A04
Contact Rat	Contact Rating		100
Max.Swiching Voltage (Max DC/Peak AC)		V	1000
Max.Swichin	g Current (Max DC/Peak AC)	Α	1.0
Max.Carry Cu	irrent	Α	2.5
Contact Res	istance	mΩ	150
Dielectric	Between contact	VDC	4000
Strength (static)	Contact to coil	VDC	4000
Insulation R	esistance	Ω	1012
Operate Tim	ne	ms	1.0
Release Tim	e	ms	0.1
Vibration(0	~2000Hz)	G	20
Shock(11ms	, 1/2 sine)	G	50
Operating Temp		$^{\circ}$	-20~+70
Storage Tem	ıp	$^{\circ}$	-35∼+105
Life Expecta	ncy	Ops	5×10 ⁷ (at 500VDC-10mA)
Outline Dim	ensions	/	Reference outline drawing

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	120
	12	9	1	16	250
	24	18	2	29	1600

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4 Example of order marking

<u>HRM</u> □ - □ □ □ □-(XXX) 1 2 3 4 5 6

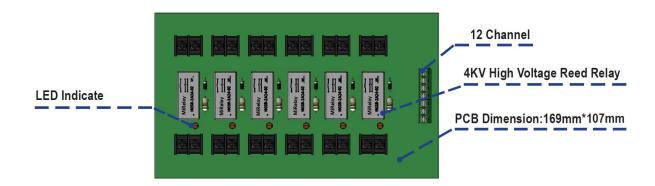
31 Product model: HRM

32 Nominal coil voltage: 05: 5VDC \ 12: 12VDC \ 24: 24VDC

33 Contact form: 12A: 12 Form A34 Breakdown voltage: 04: 4KV

35 Assesories: Blank: None F: With plinth36 Special code: Customer special requirement

5 Outline drawing



6 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.
- st When the relay is used for wave soldering, the maximum temperature is 260°C and the time does not exceed 5s.

▲Statement:

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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
- lacktriangle 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

Paramente	er		Units	Value
Relay Mode	l		/	SIP-HV1A□
Contact Rati	ing		W	100
Max.Swichin	g Voltage	e (Max DC/Peak AC)	V	1000
Max.Swichin	g Curren	t (Max DC/Peak AC)	Α	1.0
Max.Carry Cu	rrent	at 60°C	Α	2.5
Contact Res	istance		mΩ	150
Dielectric	Betwe	en contact	VDC	4000
Strength (static)	Contac	ct/shield to coil	VDC	4000
Insulation R	Insulation Resistance		Ω	1012
Operate Tim	ne		ms	1.0
Release Tim	e		ms	0.25
Vibration(0	~2000H	z)	G	20
Shock(11ms	, 1/2 si	ne)	G	50
Operating Temp		$^{\circ}$	-20~+70	
Storage Temp		$^{\circ}$	-35∼+105	
Life Expecta	ncy		Ops	5×108(at 5VDC-10mA)
Outline Dim	ensions		/	Reference outline drawing

Model	Nominal Voltage (VDC)	Pickup Voltage Max.(VDC)	Dropout Voltage Min.(VDC)	Operate Voltage Max.(VDC)	Coil Resistance (±10%Ω at 20℃)
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

37 Product model: SIP-HV

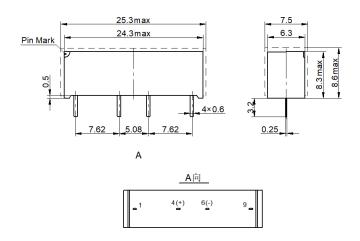
38 Contact form: 1A: 1 Form A

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

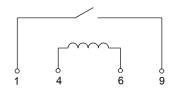
41 Special code: Customer special requirement

5 Outline drawing

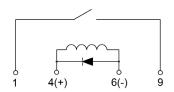


6 Wiring diagram

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.
- * Mechanical impact strength is too large, will cause the relay to use the fault.
- lpha When the relay is used for wave soldering, the maximum temperature is 260°C and the time does not exceed 5s.

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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
- \blacklozenge 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

Paramente	er		Units	Value
Relay Mode	I		/	VSIP-1A□
Contact Rati	ing		W	10
Max.Swichin	g Voltage	e (Max DC/Peak AC)	V	200
Max.Swichin	g Curren	t (Max DC/Peak AC)	Α	0.5
Max.Carry Cu	irrent	at 60°C	Α	1.0
Contact Res	istance		mΩ	150
Dielectric	Betwe	en contact	VDC	150
Strength (static)	Contac	ct/shield to coil	VDC	1400
Insulation R	Insulation Resistance		Ω	1012
Operate Tim	ne		ms	0.5
Release Tim	e		ms	0.1
Vibration(0	~2000H	lz)	G	20
Shock(11ms	s, 1/2 si	ine)	G	50
Operating Temp			$^{\circ}$	-20∼+70
Storage Temp		$^{\circ}$	-35∼+105	
Life Expecta	ncy		Ops	5×10 ⁷ (at 10VDC-10mA)
Outline Dim	ensions		/	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 $^{\circ}$ C)
	5	4	0.4	10	500
VSIP-1A□	12	9	1	24	1000

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4 Example of order marking

 $\begin{array}{c|cccc} \underline{\mathsf{VSIP}} & \square & - & \square & \square & -\underline{(\mathsf{XXX})} \\ \hline 0 & 2 & 3 & 4 & 5 \end{array}$

42 Product model: MSIP

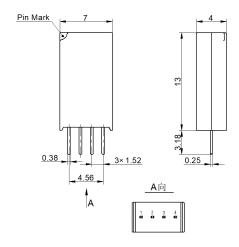
43 Contact form: 1A: 1 Form A

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

45 Pin type: 01, 02

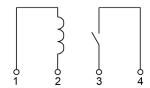
46 Special code: Customer special requirement

5 Outline drawing

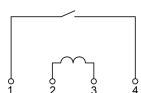


6 Wiring diagram

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.
- 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.

⚠Statement:

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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
- \blacklozenge 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.Swiching Voltage (Max DC/Peak AC)			V	250	
Max.Swiching Current (Max DC/Peak AC)			Α	0.5	
Max.Carry Current		at 60°C	Α	1.0	
Contact Resistance			mΩ	100	
Dielectric Strength (static)	Between contact		VDC	250	
	Contact/shield to coil		V	1500	
Insulation Resistance			Ω	1012	
Operate Time			ms	0.5	
Release Time			ms	0.3	
Vibration(0∼2000Hz)			G	20	
Shock(11ms, 1/2 sine)			G	50	
Operating Temp			$^{\circ}$	-20~+70	
Storage Temp			$^{\circ}$	-35~+105	
Life Expectancy			Ops	5×10 ⁷ (at 10VDC-10mA)	
Outline Dimensions			/	Reference outline drawing	

Model	Nominal Voltage (VDC)	Pickup Voltage Max.(VDC)	Dropout Voltage Min.(VDC)	Operate Voltage Max.(VDC)	Coil Resistance (±10%Ω at 20°C)
	5	4	0.4	21	500
MSIP-1A□	12	9	1	30	1000

4 Example of order marking

 $\begin{array}{c|cccc} \underline{\mathsf{MSIP}} & \square & - & \square & \square & -(\mathbf{XXX}) \\ \hline 1 & 2 & 3 & 4 & 5 \end{array}$

47 Product model: MSIP

48 Contact form: 1A: 1 Form A

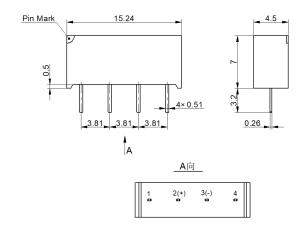
49 Nominal coil voltage: 05: 5VDC(1) \, 12: 12VDC \, 24: 24VDC

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

51 Special code: Customer special requirement

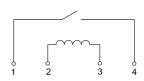
Note: (1) 5V DC is high resistance specification, suffix with "-HR".

5 Outline drawing

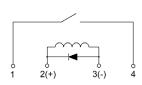


6 Wiring diagram

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.
- st When the relay is used for wave soldering, the maximum temperature is 260°C and the time does not exceed 5s.

▲Statement:

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