

HVR WET Serie

High voltage Mercury Reed Relay

1 Feature

- ◆ High power mercury reed relay with dielectric strength up to 2000VDC
- ◆ High carry current
- ◆ High Insulation resistance, up to $10^{12}\Omega$
- ◆ Low contact resistance, excellent lifetime characteristics
- ◆ Custom Design, conforming to RoHS directive



2 Performance Data

Parameter	Units	Value		
Relay Model	/	HVR1A□-HG	HVR2A□-HG	HVR1C□-HG
Contact Rating	W	50		
Max.Switching Voltage (Max DC/Peak AC)	V	1000		
Max.Switching Current (Max DC/Peak AC)	A	1.0		
Max.Carry Current	A	5.2		
Contact Resistance	mΩ	80		
Dielectric Strength (static)	Between contact	V	2000	
	Contact/shield to coil	V	2000	
	Contacts to shield	V	2000	
Insulation Resistance	Ω	10^{12}		
Operate Time	ms	3.0		
Release Time	ms	3.0		
Vibration(0~2000Hz)	G	20		
Shock(11ms, 1/2 sine)	G	50		
Operating Temp	°C	-20~+70		
Storage Temp	°C	-35~+105		
Life Expectancy	Ops	5×10^7 (at 500VDC-100mA)		
Outline Dimensions	/	Reference outline drawing		

3 Coil Parameters

Model	Nominal Voltage (VDC)	Pickup Voltage Max.(VDC)	Dropout Voltage Min.(VDC)	Operate Voltage Max.(VDC)	Coil Resistance ($\pm 10\% \Omega$ at 20°C)
HVR1A□-HG	5	4	0.5	7	100
	12	9	1	16	620
	24	18	2	29	1400
HVR2A□-HG	5	4	0.5	7	120

Model	Nominal Voltage (VDC)	Pickup Voltage Max.(VDC)	Dropout Voltage Min.(VDC)	Operate Voltage Max.(VDC)	Coil Resistance ($\pm 10\% \Omega$ at 20°C)
HVR2A□-HG	12	9	1	16	250
	24	18	2	29	1600
HVR1C□-HG	5	4	0.5	7	120
	12	9	1	16	150
	24	18	2	29	1600

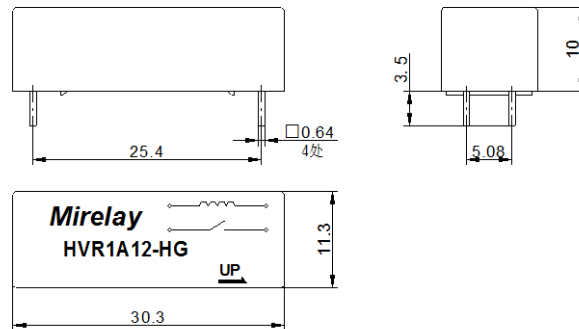
4 Example of order marking

HVR □ □ - **HG** - (XXX)
 ① ② ③ ④ ⑤

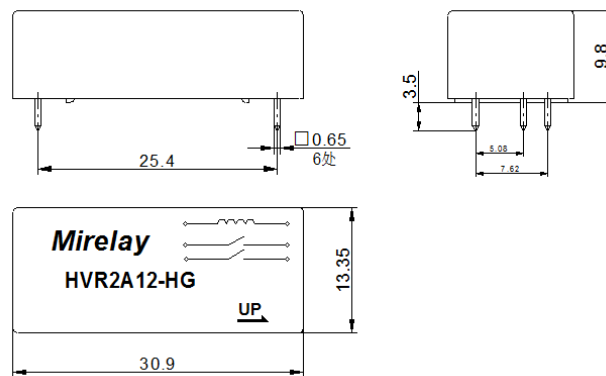
- ① Product model: HVR
- ② Contact form: 1A: 1 Form A、2A: 2 Form A、1C: 1 Form C
- ③ Nominal coil voltage: 05: 5VDC、12: 12VDC、24: 24VDC
- ④ Types: HG: Mercury reed relay
- ⑤ Special code: Customer special requirement

5 Outline drawing

1) HVR1A□-HG



2) HVR2A□-HG



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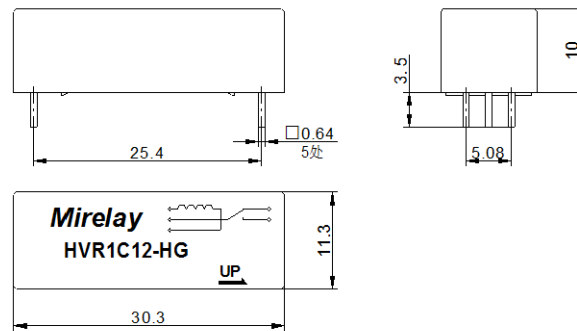
SHR RELAY

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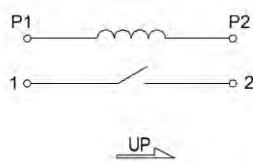
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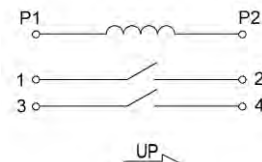
3) HVR1C□-HG


6 Wiring diagram

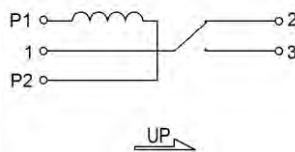
1) HVR1A□-HG



2) HVR2A□-HG



3) HVR1C□-HG


7 Precautions for use

- ※ Avoid installing relays where rain falls, or where there is a strong magnetic field, or near an object with thermal radiation.
- ※ Switching inductive or capacitive load systems will produce peak voltage or current, it is recommended to use protective circuit, otherwise, may cause relay damage.
- ※ Avoid excessive packing density in use which may affect the electrical characteristics of the relay.
- ※ Mechanical impact strength is too large, will cause the relay to use the fault.
- ※ When the relay is used for wave soldering, the maximum temperature is 260°C and the time does not exceed 5s.
- ※ Hg wet contacts must be mounted within 30° of vertical plane.

⚠Statement:

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

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

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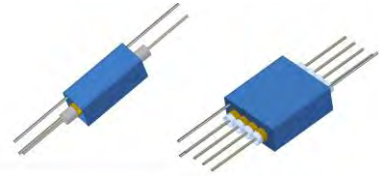
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HGFR Serie

High voltage Mercury Reed Relay

1 Feature

- ◆ High power mercury reed relay with dielectric strength up to 3500VDC
- ◆ 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

Parameter		Units	Value		
Relay Model		/	HGFR□-□□L	HGFR□-□□	HGFR□-□□H
Contact Rating		W	50		
Max.Switching Voltage (Max DC/Peak AC)		V	1000		1500
Max.Switching Current (Max DC/Peak AC)		A	2.0		
Max.Carry Current	at 60°C	A	3.0	3.0	3.0
	at 30°C	A		5.2	
Contact Resistance		mΩ	80		
Dielectric Strength (static)	Between contact	V	2000		3500
	Contact/shield to coil	V	2000		3500
	Contacts to shield	V	2000		3500
Insulation Resistance		Ω	10^{12}	10^{13}	
Operate Time		ms	3.0		
Release Time		ms	3.0		
Vibration(0~2000Hz)		G	20		
Shock(11ms, 1/2 sine)		G	50		
Operating Temp		°C	-20~+70		
Storage Temp		°C	-35~+105		
Life Expectancy		Ops	5×10^7 (at 500VDC-100mA)		
Outline Dimensions		/	Reference outline drawing		

3 Coil Parameters

Model	Nominal Voltage (VDC)	Pickup Voltage Max.(VDC)	Dropout Voltage Min.(VDC)	Operate Voltage Max.(VDC)	Coil Resistance ($\pm 10\% \Omega$ at 20°C)
HGFR□-1A□	5	4	0.5	6.5	100
HGFR□-2A□	12	9	1	16	400
	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 ($\pm 10\% \Omega$ at 20°C)
HGFR□-3A□	12	9	1	16	300
	24	18	2	29	1200
HGFR□-4A□	12	9	1	16	300
	24	18	2	29	1200

4 Example of order marking

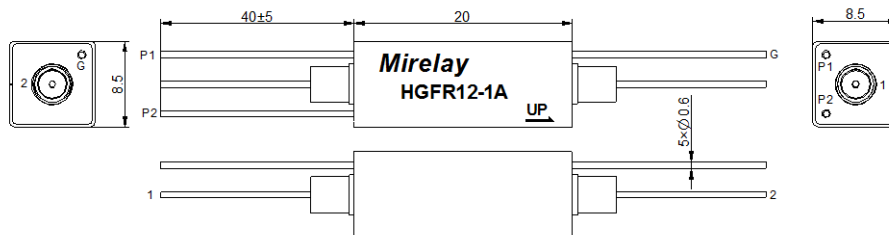
HGFR □ - □ □ □ - **(XXX)**
 ① ② ③ ④ ⑤ ⑥

- 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 Switch type: Blank: High current、L: Standard、H: High voltage⁽¹⁾
- ⑥ Special code: Customer special requirement

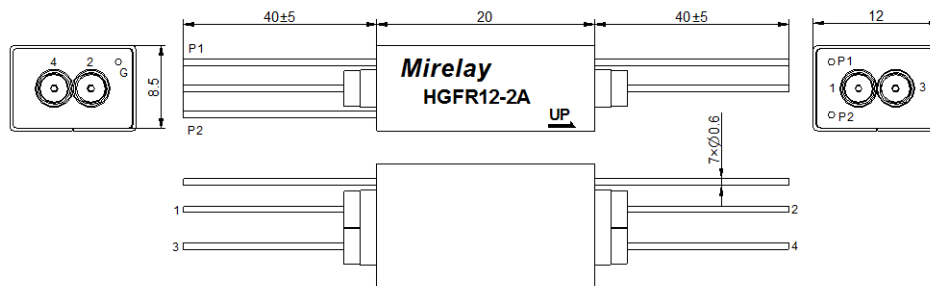
Remarks: (1)No high voltage type with contact from 4A.

5 Outline drawing

1) HGFR□-1A



2) HGFR□-2A



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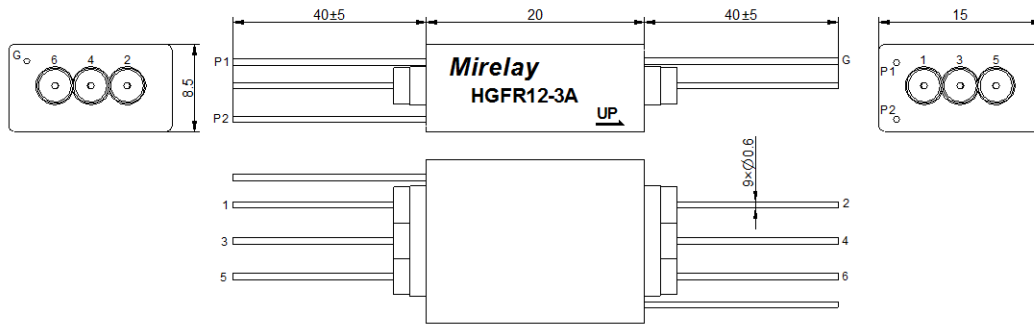
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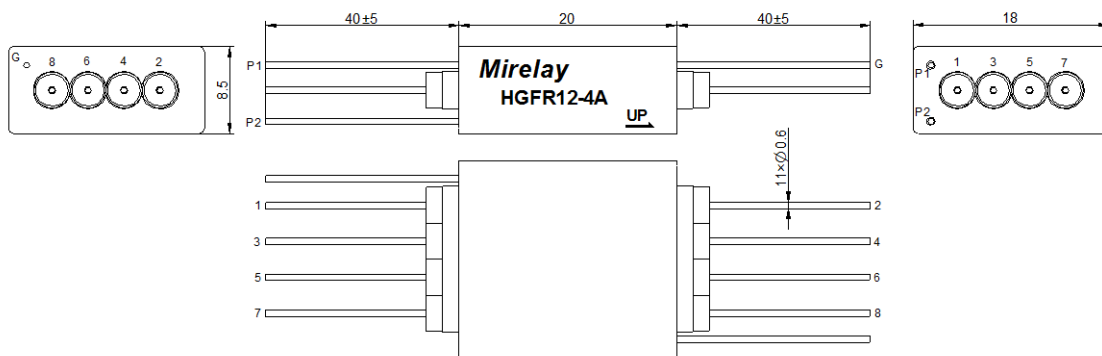
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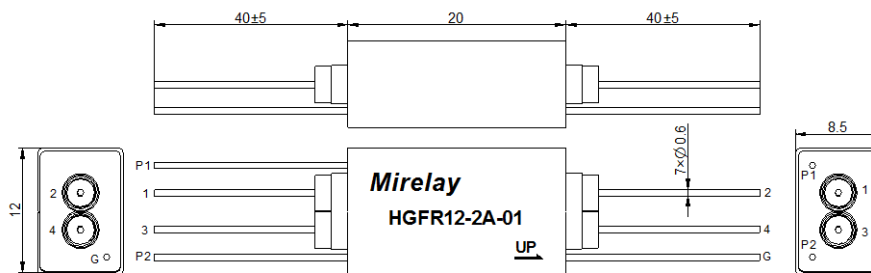
3) HGFR□-3A



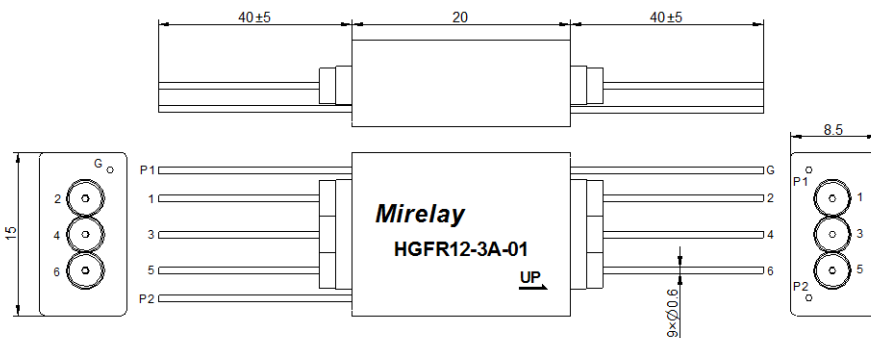
4) HGFR□-4A



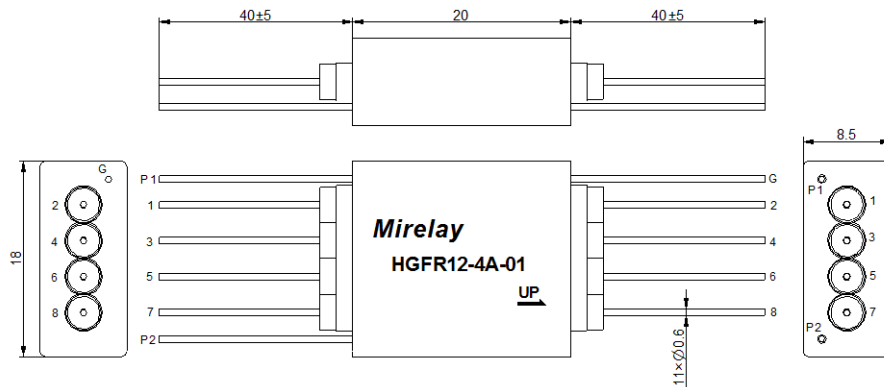
5) HGFR□-2A-01



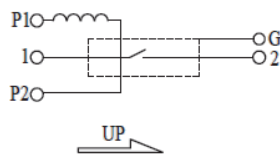
6) HGFR□-3A-01



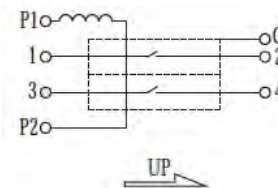
7) HGFR□-4A-01


6 Wiring diagram

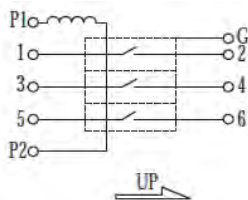
1) HGFR□-1A



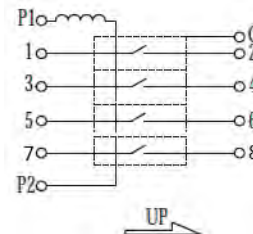
2) HGFR□-2A



3) HGFR□-3A



4) HGFR□-4A


7 Precautions for use

- ※ Avoid installing relays where rain falls, or where there is a strong magnetic field, or near an object with thermal radiation.
- ※ Switching inductive or capacitive load systems will produce peak voltage or current, it is recommended to use protective circuit, otherwise, may cause relay damage.
- ※ Avoid excessive packing density in use which may affect the electrical characteristics of the relay.
- ※ Mechanical impact strength is too large, will cause the relay to use the fault.
- ※ When the relay is used for wave soldering, the maximum temperature is 260°C and the time does not exceed 5s.
- ※ Hg wet contacts must be mounted within 30° of vertical plane.

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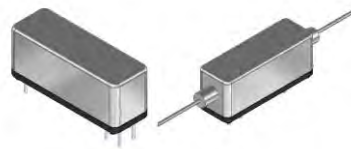
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HGMR Series

High voltage Mercury Reed Relay

1 Feature

- ◆ High power mercury reed relay with dielectric strength up to 2000VDC
- ◆ 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

Parameter		Units	Value	
Relay Model		/	HGMR□-□□L	HGMR□-□□
Contact Rating		W	50	
Max.Switching Voltage (Max DC/Peak AC)		V	1000(at 1mA)	
Max.Switching Current (Max DC/Peak AC)		A	1.0	
Max.Carry Current	at 60°C	A	3.0	3.0
	at 30°C	A		5.2
Contact Resistance		mΩ	80	
Dielectric Strength (static)	Between contact	V	2000	
	Contact/shield to coil	V	2000	
	Contacts to shield	V	2000	
Insulation Resistance		Ω	10^{10}	10^{12}
Operate Time		ms	3.0	
Release Time		ms	3.0	
Vibration(0~2000Hz)		G	20	
Shock(11ms, 1/2 sine)		G	50	
Operating Temp		°C	-20~+70	
Storage Temp		°C	-35~+105	
Life Expectancy		Ops	5×10^7 (at 500VDC-100mA)	
Outline Dimensions		/	Reference outline drawing	

3 Coil Parameters

Model	Nominal Voltage (VDC)	Pickup Voltage Max.(VDC)	Dropout Voltage Min.(VDC)	Operate Voltage Max.(VDC)	Coil Resistance ($\pm 10\% \Omega$ at 20°C)
HGMR□-□	5	4	0.5	7	70
	12	9	1	16	450
	24	18	2	29	1200

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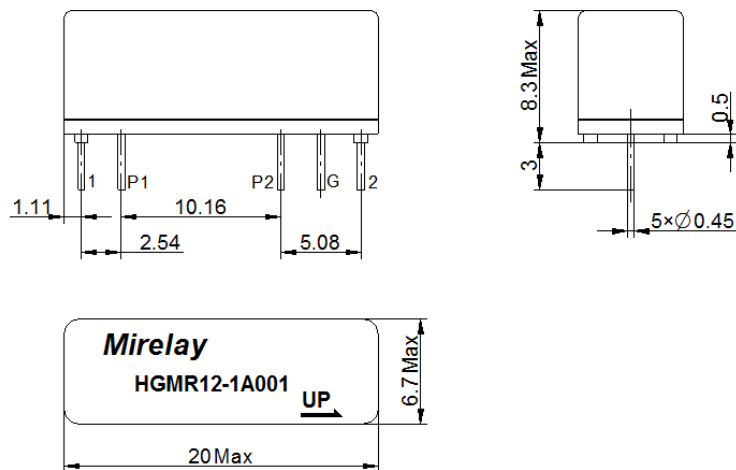
4 Example of order marking

HGMR - - (XXX)
 ① ② ③ ④ ⑤ ⑥

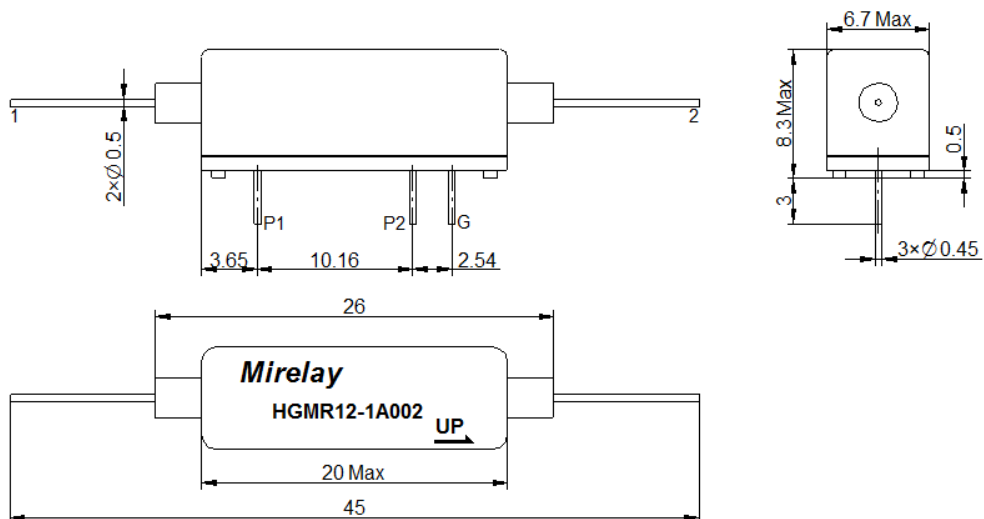
- ① Product model: HGMR
- ② Nominal coil voltage: 05: 5VDC、12: 12VDC、24: 24VDC
- ③ Contact form: 1A: 1 Form A
- ④ Pin type: 001、002、004、005
- ⑤ Switch type: Blank: High current、L: Standard
- ⑥ Special code: Customer special requirement

5 Outline drawing

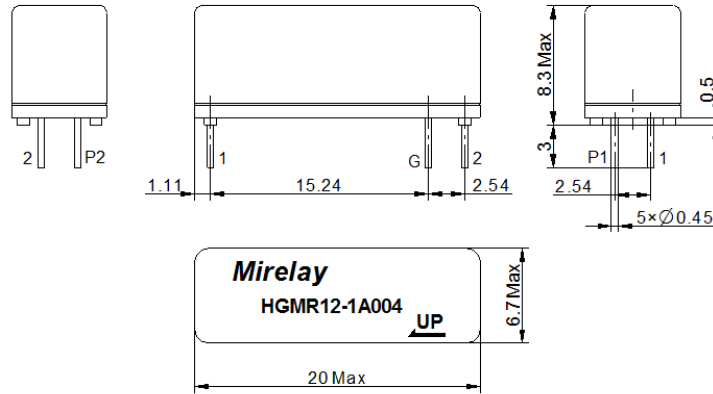
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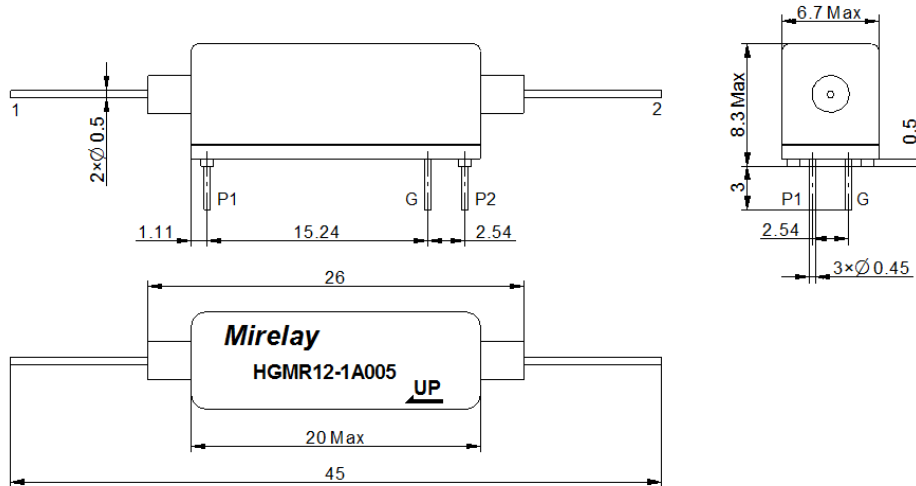
2) HGMR -1A002



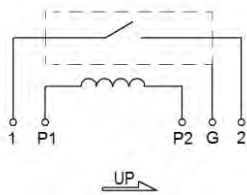
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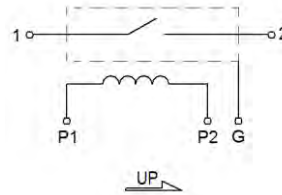
4) HGMR□-1A005


6 Wiring diagram

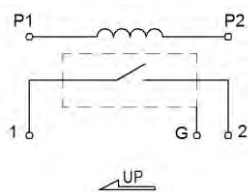
1) HGMR□-1A001



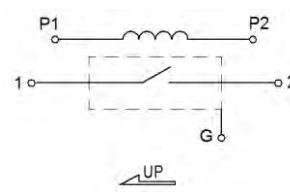
2) HGMR□-1A002



3) HGMR□-1A004



4) HGMR□-1A005



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.
- ※ Hg wet contacts must be mounted within 30° of vertical plane.

Statement:

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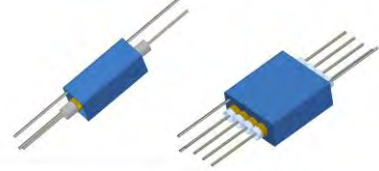
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HGSR Seris

High voltage Mercury Reed Relay

1 Feature

- ◆ High power mercury 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		/	HGSR□-1A□	HGSR□-2A□	HGSR□-□C□
Contact Rating		W	100		
Max.Switching Voltage (Max DC/Peak AC)		V	500		
Max.Switching Current (Max DC/Peak AC)		A	2.0		
Max.Carry Current		A	8.5		
Contact Resistance		mΩ	80		
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	2.0		1.5
Release Time		ms	2.0		1.5
Vibration(0~2000Hz)		G	20		
Shock(11ms, 1/2 sine)		G	50		
Operating Temp		°C	-20~+70		
Storage Temp		°C	-35~+105		
Life Expectancy		Ops	5×10^7 (at 500VDC-100mA)		
Outline Dimensions		/	Reference outline drawing		

3 Coil Parameters

Model	Nominal Voltage (VDC)	Pickup Voltage Max.(VDC)	Dropout Voltage Min.(VDC)	Operate Voltage Max.(VDC)	Coil Resistance ($\pm 10\% \Omega$ at 20°C)
HGSR□-1A□	5	4	0.5	6.5	120
HGSR□-2A□					60
HGSR□-1A□	12	9	1	16	600
HGSR□-2A□					200

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Model	Nominal Voltage (VDC)	Pickup Voltage Max.(VDC)	Dropout Voltage Min.(VDC)	Operate Voltage Max.(VDC)	Coil Resistance ($\pm 10\% \Omega$ at 20°C)
HGSR□-1A□	24	18	2	29	2000
HGSR□-2A□					1200
HGSR□-□C□	5	4	0.5	7	125
	12	9	1	16	685
	24	18	2	29	2650

4 Example of order marking

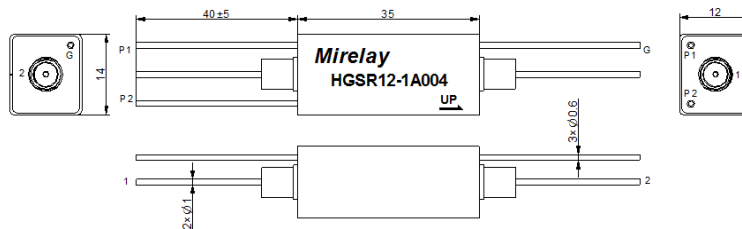
HGSR □ - □ □ - (XXX)

① ② ③ ④ ⑤

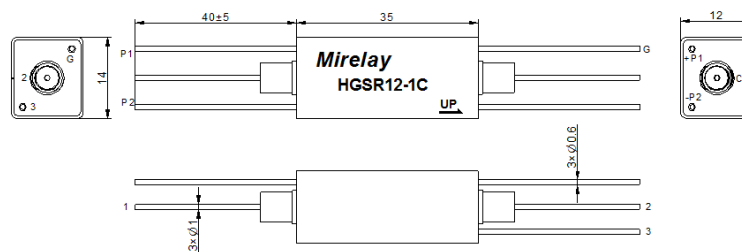
- ① Product model: HGSR
- ② Nominal coil voltage: 05: 5VDC、12: 12VDC、24: 24VDC
- ③ Contact form: 1A: 1 Form A、2A: 2 Form A、1C: 1 Form C、2C: 2 Form C
- ④ Breakdown voltage: Blank: Standard、04: 4KV
- ⑤ Special code: Customer special requirement

5 Outline drawing

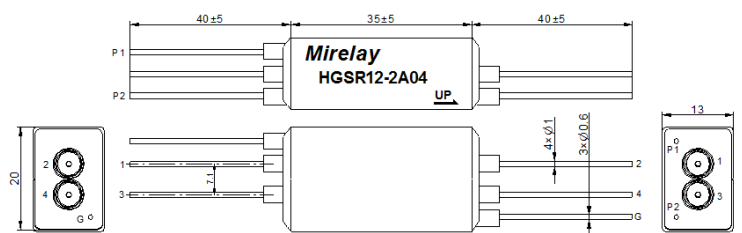
1) HGSR□-1A□



2) HGSR□-1C□



3) HGSR□-2A□



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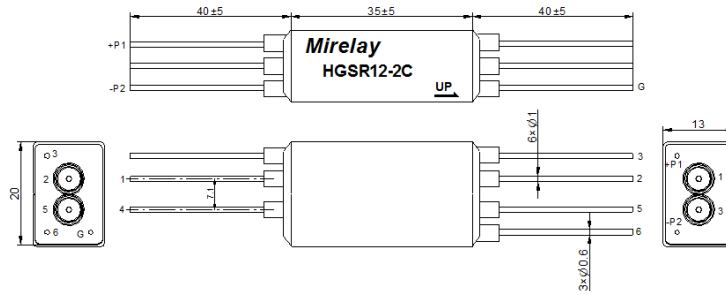
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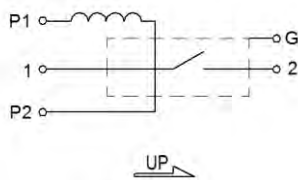
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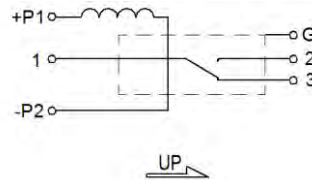
2) HGSR□-2C□


6 Wiring diagram

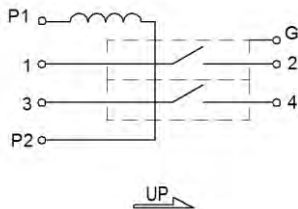
1) HGSR□-1A□



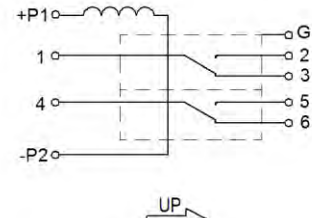
2) HGSR□-1C□



3) HGSR□-2A□



4) HGSR□-2C□


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.
- ※ Hg wet contacts must be mounted within 30° of vertical plane.

⚠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 Shanghai MiRelay Electronics Co.,Ltd. for more technical support.

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HGJR Seris

High voltage Mercury Reed Relay

1 Feature

- ◆ High power mercury reed relay with dielectric strength up to 4000VDC
- ◆ 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	/	HGJR□-1A□	HGJR□-1C□
Contact Rating	W	100	
Max.Switching Voltage (Max DC/Peak AC)	V	500	
Max.Switching Current (Max DC/Peak AC)	A	2.0	
Max.Carry Current	A	8.5	
Contact Resistance	mΩ	80	
Dielectric Strength (static)	Between contact	V	4000
	Contact/shield to coil	V	4000
	Contacts to shield	V	4000
Insulation Resistance	Ω	10^{12}	
Operate Time	ms	2.0	1.5
Release Time	ms	2.0	1.5
Vibration(0~2000Hz)	G	20	
Shock(11ms, 1/2 sine)	G	50	
Operating Temp	°C	-20~+70	
Storage Temp	°C	-35~+105	
Life Expectancy	Ops	5×10^7 (at 500VDC-100mA)	
Outline Dimensions	/	Reference outline drawing	

3 Coil Parameters

Model	Nominal Voltage (VDC)	Pickup Voltage Max.(VDC)	Dropout Voltage Min.(VDC)	Operate Voltage Max.(VDC)	Coil Resistance ($\pm 10\% \Omega$ at 20°C)
HGJR□-□□	5	4	0.5	7	125
	12	9	1	16	685
	24	18	2	29	2650

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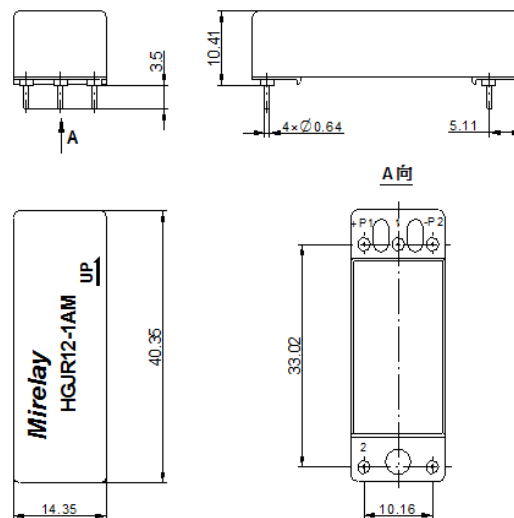
4 Example of order marking

HGJR - - (XXX)
 ① ② ③ ④ ⑤

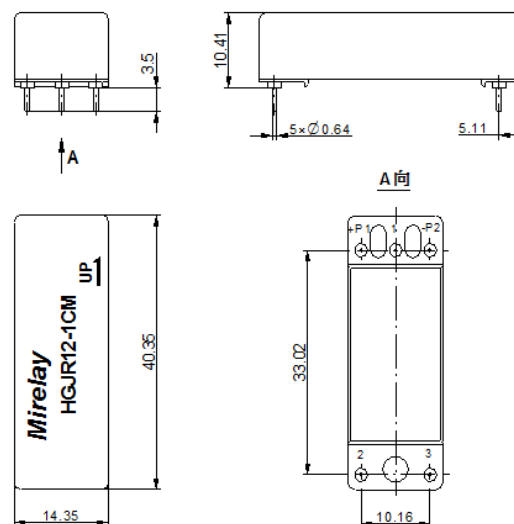
- ① Product model: HGJR
- ② Nominal coil voltage: 05: 5VDC、12: 12VDC、24: 24VDC
- ③ Contact form: 1A: 1 Form A、1C: 1 Form C
- ④ Construction: M: Metal casing、P: Plastic casing
- ⑤ Special code: Customer special requirement

5 外形尺寸图

1) HGJR□-1A□



2) HGJR□-1C□



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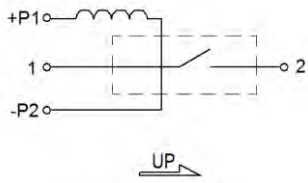
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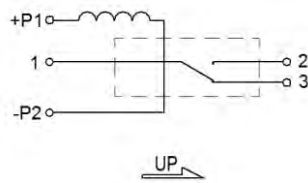
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6 接线图

1) HGJR□-1A□



2) HGJR□-1C□



7 Precautions for use

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- ※ 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.
- ※ Hg wet contacts must be mounted within 30° of vertical plane.

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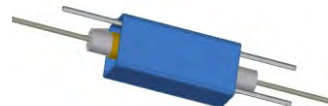
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MH Seris

High voltage Mercury Reed Relay

1 Feature

- ◆ High power mercury reed relay with dielectric strength up to 10KVDC
- ◆ 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	/	MH□-1A8K	MH□-1A10K	
Contact Rating	W	100		
Max.Switching Voltage (Max DC/Peak AC)	V	5000		
Max.Switching Current (Max DC/Peak AC)	A	5.0		
Max.Carry Current	A	10.0		
Contact Resistance	mΩ	100		
Dielectric Strength (static)	Between contact	V	8000	10000
	Contact/shield to coil	V	8000	10000
	Contacts to shield	V	8000	10000
Insulation Resistance	Ω	10^{12}		
Operate Time	ms	7.0		
Release Time	ms	5.0		
Vibration(0~2000Hz)	G	20		
Shock(11ms, 1/2 sine)	G	50		
Operating Temp	°C	-20~+70		
Storage Temp	°C	-35~+105		
Life Expectancy	Ops	5×10^7 (at 500VDC-100mA)		
Outline Dimensions	/	Reference outline drawing		

3 Coil Parameters

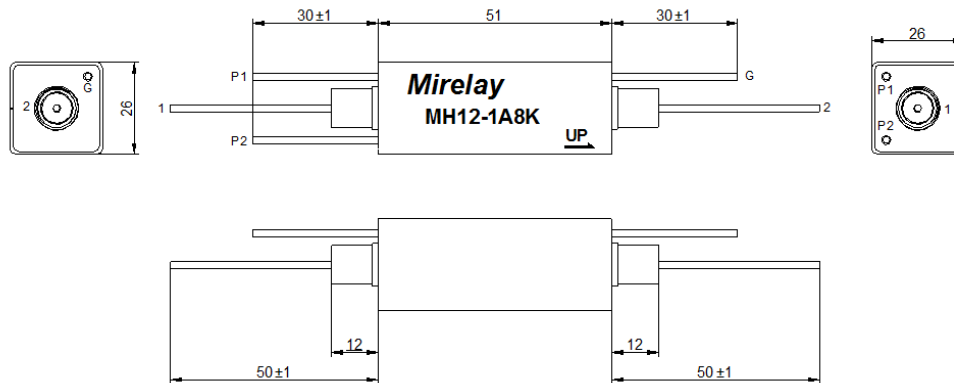
Model	Nominal Voltage (VDC)	Pickup Voltage Max.(VDC)	Dropout Voltage Min.(VDC)	Operate Voltage Max.(VDC)	Coil Resistance ($\pm 10\% \Omega$ at 20°C)
MH□-1A□	5	4	0.8	6.5	50
	12	9	1.2	16	200
	24	18	2.4	29	800

4 Example of order marking

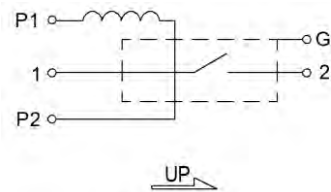
MH □ - □ □ - (XXX)
 ① ② ③ ④ ⑤

- ① Product model: MH
- ② Nominal coil voltage: 05: 5VDC、12: 12VDC、24: 24VDC
- ③ Contact form: 1A: 1 Form A
- ④ Breakdown voltage: 8K: 8KV、10K: 10KV
- 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.
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