

High Voltage Reed Relay HRX10-1A15 Series

MISENSOR TECH CO,LTD.
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Product Feature

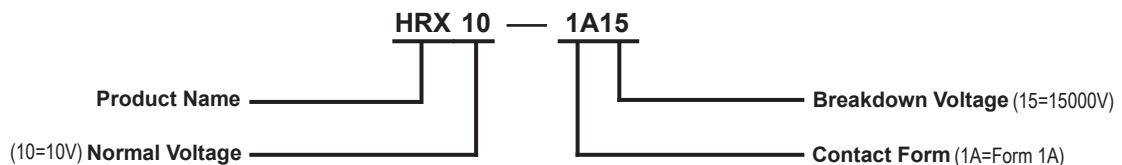
- High Voltage Reed Relay, Breakdown Voltage up to 15000 VDC
- Hermetically Sealed Tungsten Contacts for long life
- Low Contact Resistance
- Excellent Lifetime Characteristics
- Custom Design Available For Coil Resistance



Specifications

Coil Specifications	Units	Conditions	HRX10-1A15
Nominal Coil Voltage	VDC		10
Max Operating Voltage	VDC		14
Max Pull-in Voltage	VDC	@20°C	7.5
Min Drop-out Voltage	VDC	@20°C	1.0
Coil Resistance	ohms	±10% @20°C	120
Contact Ratings			
Max Contact Rating	W	Any DC combination of V&A not to exceed their individual max.'s	50
Max Switch Voltage	V	DC or AC peak	10000
Max Switch Current	A	DC or AC peak	3.0
Max Carry Current	A	DC or AC peak	5.0
Max Breakdown Voltage	V	DC or AC peak	15000
Contact Resistance	mohm	Maximum	150
Relay Specifications			
Breakdown Voltage	V	DC or AC peak	15000
Isolation Contact to Coil	V	DC or AC peak	15000
Insulation Resistance Contact to Coil	ohms	Minimum, RH<45%, 200VDC test voltage	10 ¹²
Operate Time, incl. Bounce	ms		5.0
Reset Time	ms		3.0
Cpaccitance Across Contact	pF		0.8
Storge Temprature	°C		-35 to +105
Operating Temprature	°C		-20 to +70
Soldering Temperature	°C		5 sec. max 260

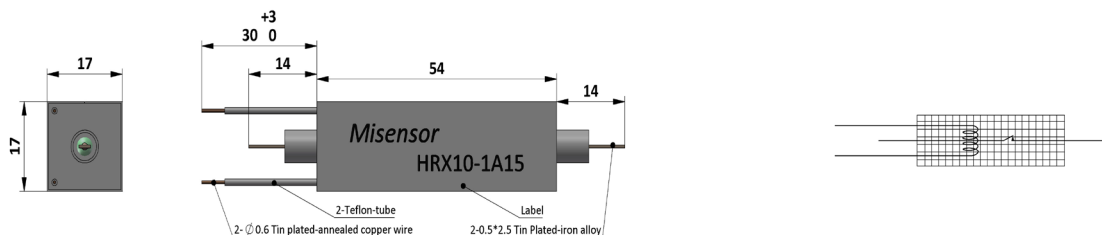
Order Information



Mechanical Dimensions

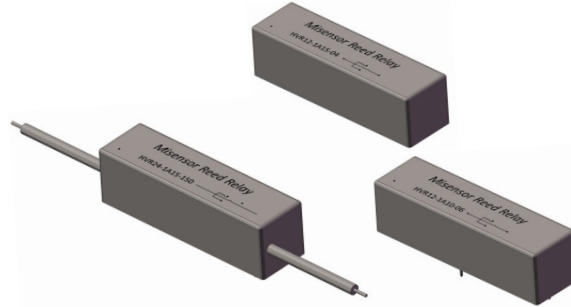
All Dimensions in mm

Top View



Product Feature

- High Dielectric Strength Up to 15kV
- Hermetically sealed for long life
- Low Contact Resistance
- Excellent Lifetime Characteristics
- Custom Design Available For Coil Resistance And Pin Out.



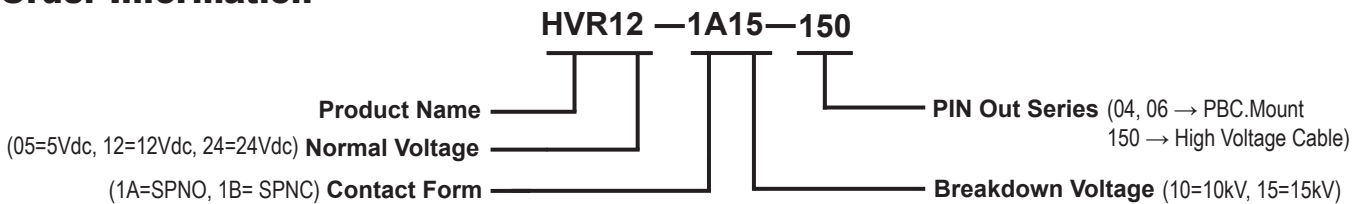
Specifications

■ Coil Specifications	Units	Conditions	10kV SPNO		10kV SPNC		15kV SPNO		15kV SPNC	
Nominal Coil Voltage	VDC		05	12	24	05	12	24		
Max Operating Voltage	VDC		6.5	16	29	6.5	16	29		
Max Pull-in Voltage	VDC	@20°C	4.0	9.0	18	4.0	9.0	18		
Min Drop-out Voltage	VDC	@20°C	0.5	1.0	2.0	0.5	1.0	2.0		
Coil Resistance	ohms	±10% @20°C	30	200	600	30	200	600		

■ Contact Ratings										
Max Contact Rating	W	Any DC combination of V&A not to exceed their individual max.'s	50			50				
Max Switch Voltage	V		DC or AC peak 7500			DC or AC peak 10000				
Max Switch Current	A		DC or AC peak 3.0			DC or AC peak 3.0				
Max Carry Current	A		DC or AC peak 5.0			DC or AC peak 5.0				
Max Breakdown Voltage	V		DC or AC peak 10000			DC or AC peak 15000				
Contact Resistance	mohm		Maximum 150			Maximum 150				

■ Relay Specifications										
Breakdown Voltage	V	DC or AC peak	10000			15000				
Isolation Contact to Coil	V	DC or AC peak	15000			15000				
Insulation Resistance Contact to Coil	ohms	Minimum, RH<45%, 200VDC test voltage	10 ¹²			10 ¹²				
Operate Time, incl. Bounce	ms		3.0			3.0				
Reset Time	ms		1.5			1.5				
Cpaccitance Across Contact	pF		0.8			0.8				
Storge Temprature	°C		-35 to +105			-35 to +105				
Operating Temprature	°C		-20 to +70			-20 to +70				
Soldering Temprature	°C		5 sec. max 260			5 sec. max 260				

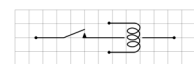
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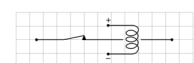
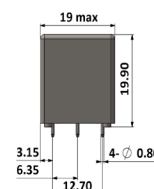
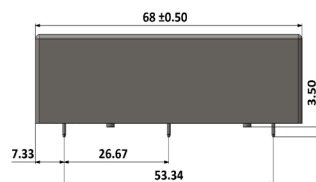
Mechanical Dimensions

All Dimensions in mm

Top View



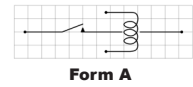
04 Series



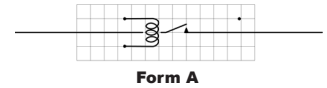
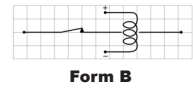
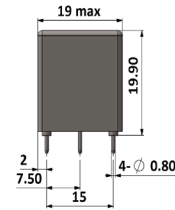
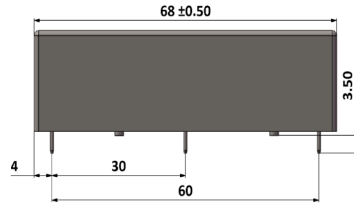
Mechanical Dimensions

All Dimensions in mm

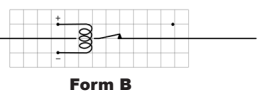
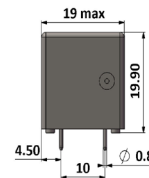
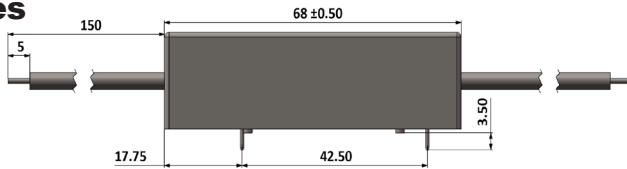
Top View



06 Series



150 Series



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HVR05-1A10-02

- High Voltage Reed Relay
- Coil Voltage 05V
- Breakdown up to 10KV

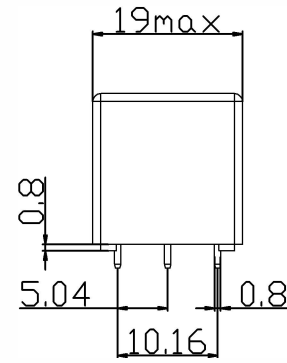
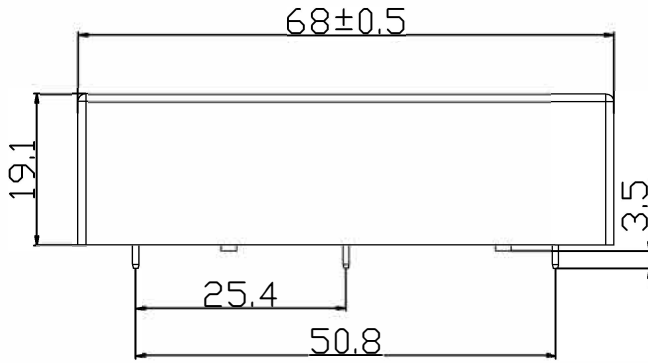
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[Outline Dimension]

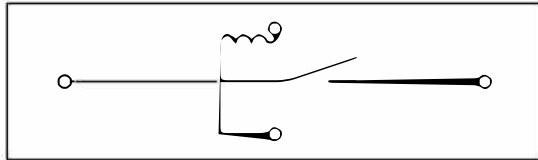
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Scale: 1/1



[Pin Layout]

[Top View]



Order Information

HVR05-1A10-02

Coil Parameters		Relay Parameters	
1 Nominal coil voltage	05 VDC	1 Min Breakdown Voltage	10K VDC
2 Max Operating voltage	6.5 VDC	2 Dielectric Strength coil/contact	15K VDC
3 Max Pull-in voltage	3.8 VDC	3 Insulation Resistance coil/contact	1.00E+12ohm
4 Min Drop-out voltage	0.5 VDC	4 Operate Time, incl. Bounce	3.0ms
5 Coil Resistance	40 ohm	5 Reset Time	1.5ms
Contact Parameters		6 Capacitance Across Contacts	0.8pF
1 Max Contact Rating	50 W	7 Storage Temperature	-35~+105°C
2 Max Switch Voltage	7.5K VDC	8 Operating Temperature	-20~+70 °C
3 Max Switch Current	3.0 A	9 Soldering Temperature	5 sec.max 260°C
4 Max Carrying Current	5.0 A		
5 Min Breakdown Voltage	10K VDC		
6 Max Contact Resistance	150 mohm		

Version: 01	Designed by		TITLE	
	Checked by		High Voltage Reed Relay	
	Approved by		P/N	Scale: 1:1
	Date	20th, Aug, 2015	HVR05-1A10-02	Page: 1/1

HVR12-1A10-04-150

- High Voltage Reed Relay
- Coil Voltage 12V
- Breakdown up to 10KV

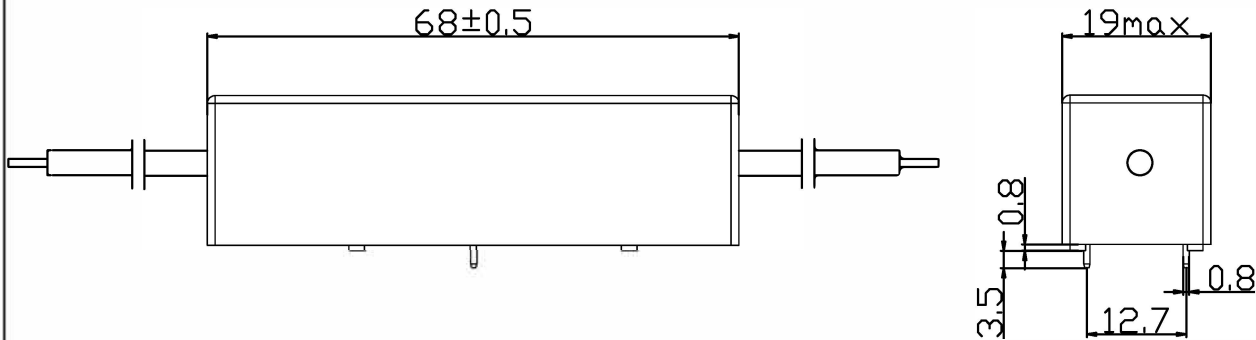
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[Outline Dimension]

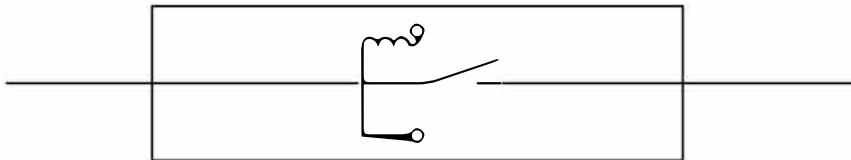
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Scale: 1/1



[Pin Layout]

[Top View]



Order Information

HVR12-1A10-04-150

Coil Parameters		Relay Parameters	
1 Nominal coil voltage	12 VDC	1 Min Breakdown Voltage	10K VDC
2 Max Operating voltage	16 VDC	2 Dielectric Strength coil/contact	15K VDC
3 Max Pull-in voltage	9.0 VDC	3 Insulation Resistance coil/contact	1.00E+12ohm
4 Min Drop-out voltage	1.0 VDC	4 Operate Time, incl. Bounce	3.0ms
5 Coil Resistance	200 ohm	5 Reset Time	1.5ms
Contact Parameters		6 Capacitance Across Contacts	0.8pF
1 Max Contact Rating	50 W	7 Storage Temperature	-35~+105°C
2 Max Switch Voltage	7.5K VDC	8 Operating Temperature	-20~+70 °C
3 Max Switch Current	3.0 A	9 Soldering Temperature	5 sec.max 260°C
4 Max Carrying Current	5.0 A		
5 Min Breakdown Voltage	10K VDC		
6 Max Contact Resistance	150 mohm		

Version: 02	Designed by		TITLE High Voltage Reed Relay	
	Checked by			
	Approved by		P/N HVR12-1A10-04-150	Scale: 1:1
	Date	5th, Dec, 2012		Page: 1/1

HVR12-1A10-04

- High Voltage Reed Relay
- Coil Voltage 12V
- Breakdown up to 10KV

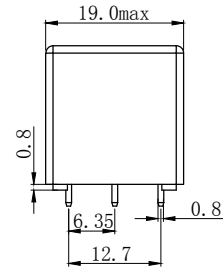
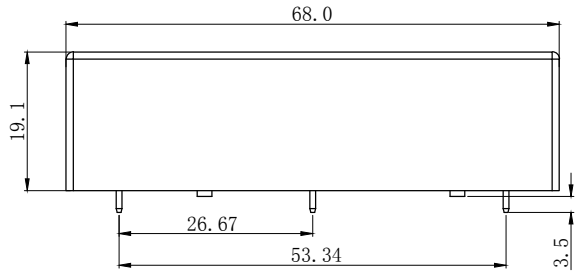
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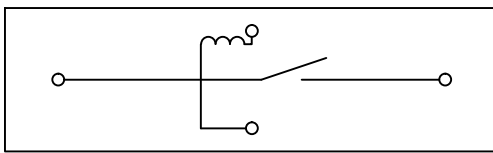
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Scale: 1/1



[Pin Layout]

[Top View]



Order Information

HVR12-1A10-04

Coil Parameters		Relay Parameters	
1 Nominal coil voltage	12 VDC	1 Min Breakdown Voltage	10K VDC
2 Max Operating voltage	16 VDC	2 Dielectric Strength coil/contact	15K VDC
3 Max Pull-in voltage	9 VDC	3 Insulation Resistance coil/contact	1.00E+12ohm
4 Min Drop-out voltage	1 VDC	4 Operate Time, incl. Bounce	3.0ms
5 Coil Resistance	200ohm	5 Reset Time	1.5ms
Contact Parameters		6 Capacitance Across Contacts	0.8pF
1 Max Contact Rating	50 W	7 Storage Temperature	-35~+105℃
2 Max Switch Voltage	7.5K VDC	8 Operating Temperature	-20~+70 ℃
3 Max Switch Current	3.0 A	9 Soldering Temperature	5 sec.max 260℃
4 Max Carrying Current	5.0 A		
5 Min Breakdown Voltage	10K VDC		
6 Max Contact Resistance	150 mohm		

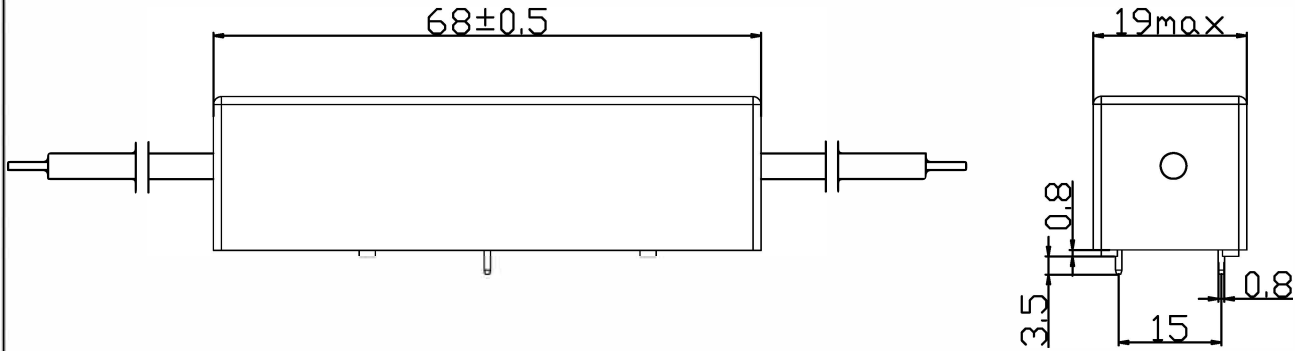
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	Approved by		P/N	Scale: 1:1
	Date	5th, Oct, 2010	HVR12-1A10-04	Page: 1/1

- High Voltage Reed Relay
- Coil Voltage 12V
- Breakdown up to 10KV

[Outline Dimension]

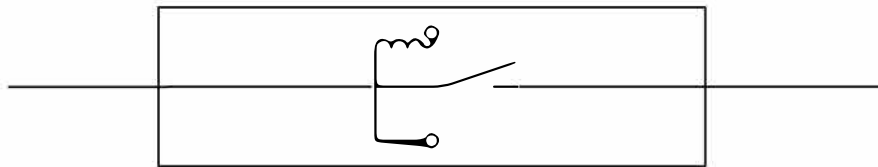
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Scale: 1/1



[Pin Layout]

[Top View]



Order Information

HVR12-1A10-06-150

Coil Parameters		Relay Parameters	
1 Nominal coil voltage	12 VDC	1 Min Breakdown Voltage	10K VDC
2 Max Operating voltage	16 VDC	2 Dielectric Strength coil/contact	15K VDC
3 Max Pull-in voltage	9.0 VDC	3 Insulation Resistance coil/contact	1.00E+12ohm
4 Min Drop-out voltage	1.0 VDC	4 Operate Time, incl. Bounce	3.0ms
5 Coil Resistance	200 ohm	5 Reset Time	1.5ms
Contact Parameters		6 Capacitance Across Contacts	0.8pF
1 Max Contact Rating	50 W	7 Storage Temperature	-35~+105°C
2 Max Switch Voltage	7.5K VDC	8 Operating Temperature	-20~+70 °C
3 Max Switch Current	3.0 A	9 Soldering Temperature	5 sec. max 260°C
4 Max Carrying Current	5.0 A		
5 Min Breakdown Voltage	10K VDC		
6 Max Contact Resistance	150 mohm		

Version: 02	Designed by		TITLE	
	Checked by		High Voltage Reed Relay	
	Approved by		P/N	Scale: 1:1
	Date	5th, Dec, 2012	HVR12-1A10-06-150	Page: 1/1

HVR12-1A10-06

- High Voltage Reed Relay
- Coil Voltage 12V
- Breakdown up to 10KV

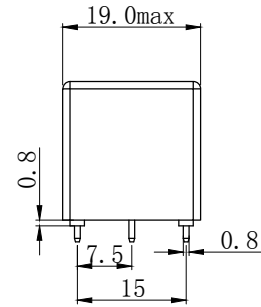
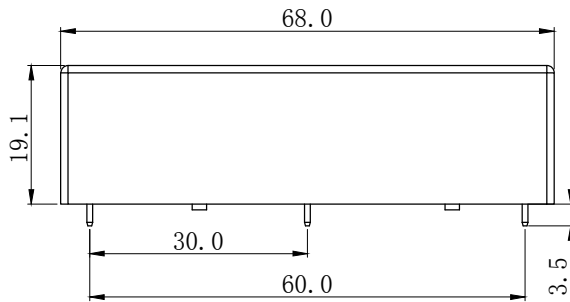
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[Outline Dimension]

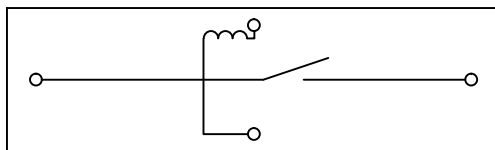
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[Pin Layout]

[Top View]



Order Information

HVR12-1A10-06

Coil Parameters		Relay Parameters	
1 Nominal coil voltage	12 VDC	1 Min Breakdown Voltage	10K VDC
2 Max Operating voltage	16 VDC	2 Dielectric Strength coil/contact	15K VDC
3 Max Pull-in voltage	9 VDC	3 Insulation Resistance coil/contact	1.00E+12ohm
4 Min Drop-out voltage	1 VDC	4 Operate Time, incl. Bounce	3.0ms
5 Coil Resistance	200ohm	5 Reset Time	1.5ms
Contact Parameters		6 Capacitance Across Contacts	0.8pF
1 Max Contact Rating	50 W	7 Storage Temperature	-35~+105℃
2 Max Switch Voltage	7.5K VDC	8 Operating Temperature	-20~+70 ℃
3 Max Switch Current	3.0 A	9 Soldering Temperature	5 sec.max 260℃
4 Max Carrying Current	5.0 A		
5 Min Breakdown Voltage	10K VDC		
6 Max Contact Resistance	150 mohm		

Version: 01	Designed by		TITLE	
	Checked by		High Voltage Reed Relay	
	Approved by		P/N	Scale: 1:1
	Date	5th, Oct, 2010		HVR12-1A10-06

HVR12-1A10-150

- High Voltage Reed Relay
- Coil Voltage 12V
- Breakdown up to 10KV

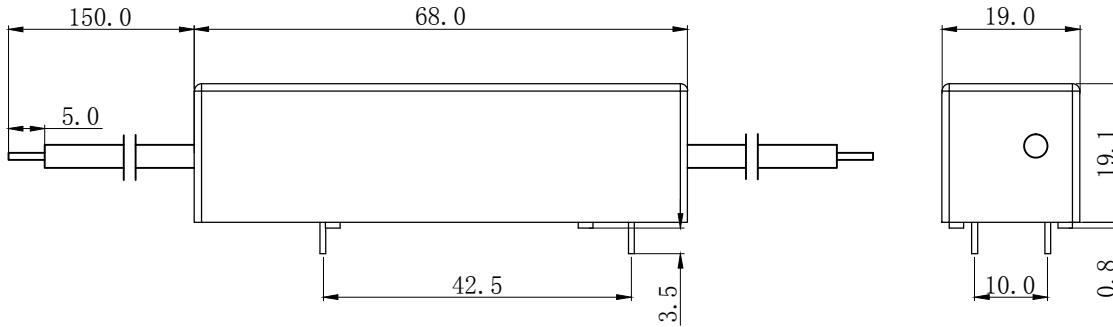
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[Outline Dimension]

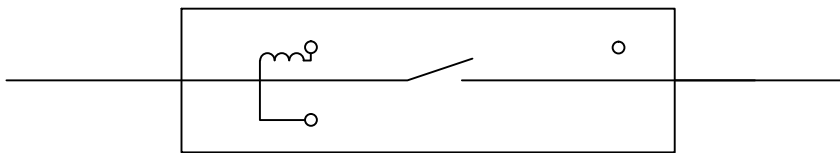
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

[Top View]



Order Information

HVR12-1A10-150

Coil Parameters		Relay Parameters	
1 Nominal coil voltage	12 VDC	1 Min Breakdown Voltage	10K VDC
2 Max Operating voltage	16 VDC	2 Dielectric Strength coil/contact	15K VDC
3 Max Pull-in voltage	9 VDC	3 Insulation Resistance coil/contact	1.00E+12ohm
4 Min Drop-out voltage	1 VDC	4 Operate Time, incl. Bounce	3.0ms
5 Coil Resistance	200ohm	5 Reset Time	1.5ms
Contact Parameters		6 Capacitance Across Contacts	0.8pF
1 Max Contact Rating	50 W	7 Storage Temperature	-35~+105°C
2 Max Switch Voltage	7.5K VDC	8 Operating Temperature	-20~+70 °C
3 Max Switch Current	3.0 A	9 Soldering Temperature	5 sec.max 260°C
4 Max Carrying Current	5.0 A		
5 Min Breakdown Voltage	10K VDC		
6 Max Contact Resistance	150 mohm		

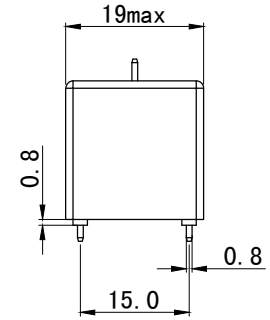
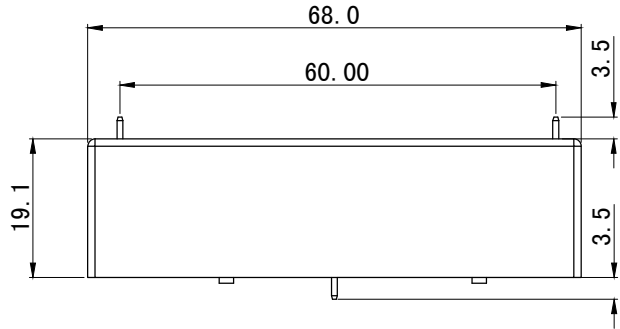
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	Checked by		High Voltage Reed Relay	
	Approved by		P/N	Scale: 1:1
	Date	5th, Oct, 2010	HVR12-1A10-150	Page: 1/1

HVR12-1A10-S1

- High Voltage Reed Relay
- Coil Voltage 12V
- Breakdown up to 10KV

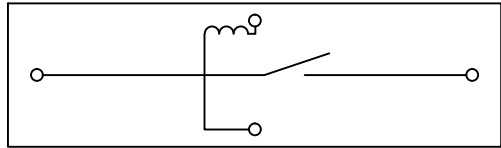
[Outline Dimension]

Unit: mm Scale: 1/1



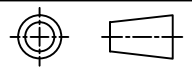
[Pin Layout]

[Top View]



Order Information
HVR12-1A10-S1

Coil Parameters		Relay Parameters	
1 Nominal coil voltage	12 VDC	1 Min Breakdown Voltage	10K VDC
2 Max Operating voltage	16 VDC	2 Dielectric Strength coil/contact	10K VDC
3 Max Pull-in voltage	9.0 VDC	3 Insulation Resistance coil/contact	1.00E+12ohm
4 Min Drop-out voltage	1.0 VDC	4 Operate Time, incl. Bounce	3.0ms
5 Coil Resistance	200ohm	5 Reset Time	1.5ms
Contact Parameters		6 Capacitance Across Contacts	0.8pF
1 Max Contact Rating	50 W	7 Storage Temperature	-35~+105°C
2 Max Switch Voltage	7.0K VDC	8 Operating Temperature	-20~+70 °C
3 Max Switch Current	3.0 A	9 Soldering Temperature	5 sec.max 260°C
4 Max Carrying Current	5.0 A		
5 Min Breakdown Voltage	10K VDC		
6 Max Contact Resistance	150 mohm		

Remark: RoHS	Designed by	Gu Rui Nian	TITLE High Voltage Reed Relay	
	Checked by	Xu Deng Kui		
	Approved by	Xu Tao	P/N HVR12-1A10-S1	Version: V1.0
	Date	2011. 11. 15		Page: 1/1

HVR12-1A10-S200

- High Voltage Reed Relay
- Coil Voltage 12V
- Breakdown up to 10KV

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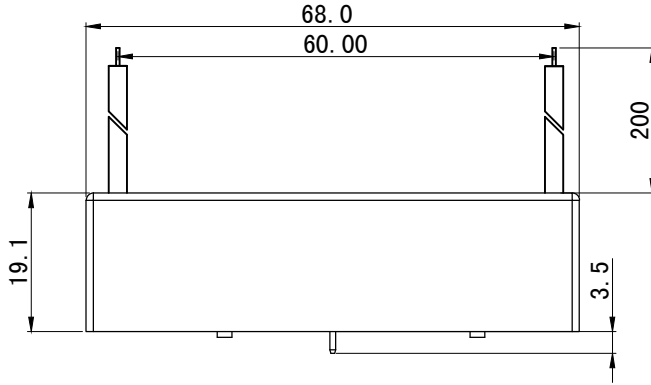
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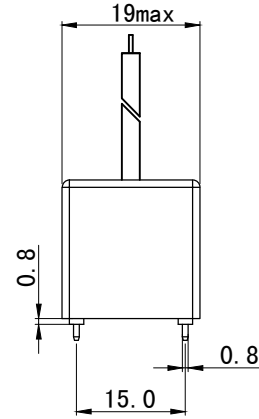
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[Outline Dimension]



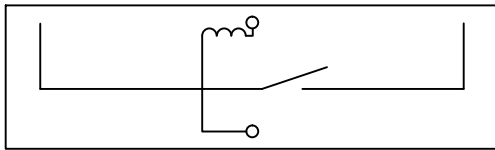
Unit: mm

Scale: 1/1



[Pin Layout]

[Top View]



Order Information

HVR12-1A10-S200

Coil Parameters		Relay Parameters	
1 Nominal coil voltage	12 VDC	1 Min Breakdown Voltage	10K VDC
2 Max Operating voltage	16 VDC	2 Dielectric Strength coil/contact	10K VDC
3 Max Pull-in voltage	9.0 VDC	3 Insulation Resistance coil/contact	1.00E+12ohm
4 Min Drop-out voltage	1.0 VDC	4 Operate Time, incl. Bounce	3.0ms
5 Coil Resistance	200ohm	5 Reset Time	1.5ms
Contact Parameters		6 Capacitance Across Contacts	0.8pF
1 Max Contact Rating	50 W	7 Storage Temperature	-35 ~ +105°C
2 Max Switch Voltage	7.0K VDC	8 Operating Temperature	-20 ~ +70 °C
3 Max Switch Current	3.0 A	9 Soldering Temperature	5 sec.max 260°C
4 Max Carrying Current	5.0 A		
5 Min Breakdown Voltage	10K VDC		
6 Max Contact Resistance	150 mohm		

Remark:

RoHS

Designed by

Gu Rui Nian

Checked by

Xu Deng Kui

Approved by

Xu Tao

Date

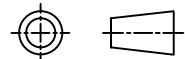
2011. 11. 15

TITLE

High Voltage Reed Relay

P/N

HVR12-1A10-S200



Version: V1.1

Page: 1/1

HVR12-1B10-06

- High Voltage Reed Relay
- Coil Voltage 12V
- Breakdown up to 10KV

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WhatsApp:+86 13761571029

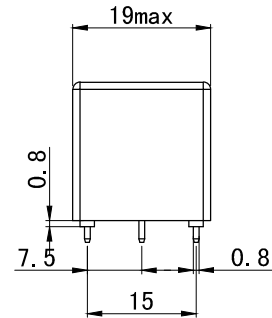
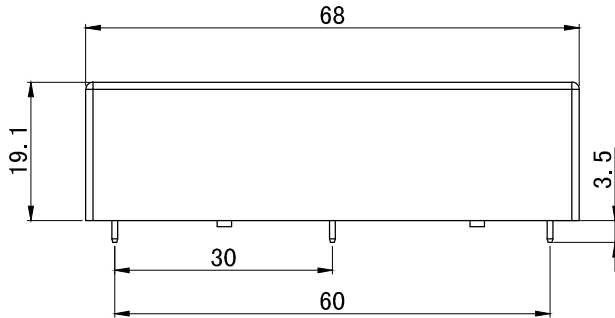
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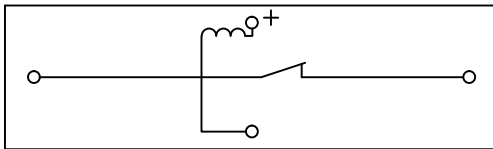
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[Pin Layout]

[Top View]



Order Information

HVR12-1B10-06

Coil Parameters		Relay Parameters	
1 Nominal coil voltage	12 VDC	1 Min Breakdown Voltage	10K VDC
2 Max Operating voltage	16 VDC	2 Dielectric Strength coil/contact	15K VDC
3 Max Pull-in voltage	9.0 VDC	3 Insulation Resistance coil/contact	1.00E+12ohm
4 Min Drop-out voltage	1.0 VDC	4 Operate Time, incl. Bounce	3.0ms
5 Coil Resistance	85 ohm	5 Reset Time	1.5ms
Contact Parameters		6 Capacitance Across Contacts	0.8pF
1 Max Contact Rating	50 W	7 Storage Temperature	-35 ~ +105 °C
2 Max Switch Voltage	7.5K VDC	8 Operating Temperature	-20 ~ +70 °C
3 Max Switch Current	3.0 A	9 Soldering Temperature	5 sec. max 260 °C
4 Max Carrying Current	5.0 A		
5 Min Breakdown Voltage	10K VDC		
6 Max Contact Resistance	150 mohm		

Version: 01	Designed by		TITLE Form B, HV Reed Relay	
	Checked by			
	Approved by		P/N HVR12-1B10-06	Scale: 1:1
	Date	5th, Oct, 2010		Page: 1/1

HVR12-1B10-150

- High Voltage Reed Relay
- Coil Voltage 12V
- Breakdown up to 10KV

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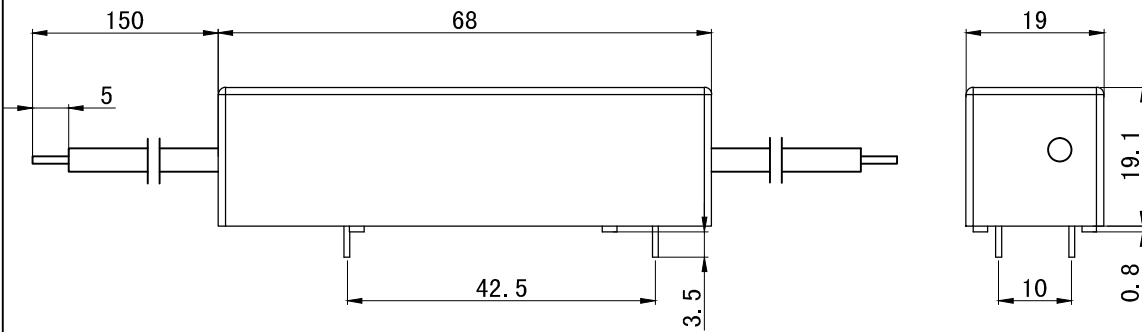
Http://www.Misensor.net

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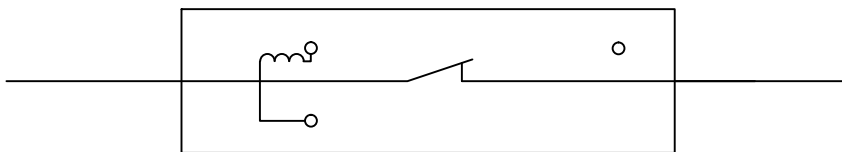
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Scale: 1/1



[Pin Layout]

[Top View]



Order Information

HVR12-1B10-150

Coil Parameters		Relay Parameters	
1 Nominal coil voltage	12 VDC	1 Min Breakdown Voltage	10K VDC
2 Max Operating voltage	16 VDC	2 Dielectric Strength coil/contact	15K VDC
3 Max Pull-in voltage	9.0 VDC	3 Insulation Resistance coil/contact	1.00E+12ohm
4 Min Drop-out voltage	1.0 VDC	4 Operate Time, incl. Bounce	3.0ms
5 Coil Resistance	85 ohm	5 Reset Time	1.5ms
Contact Parameters		6 Capacitance Across Contacts	0.8pF
1 Max Contact Rating	50 W	7 Storage Temperature	-35 ~ +105°C
2 Max Switch Voltage	7.5K VDC	8 Operating Temperature	-20 ~ +70 °C
3 Max Switch Current	3.0 A	9 Soldering Temperature	5 sec. max 260°C
4 Max Carrying Current	5.0 A		
5 Min Breakdown Voltage	10K VDC		
6 Max Contact Resistance	150 mohm		

Version: 01

Designed by

Checked by

Approved by

Date

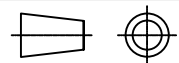
5th, Oct, 2010

TITLE

Form B, HV Reed Relay

P/N

HVR12-1B10-150



Scale: 1:1

Page: 1/1

HVR12-4A10-01

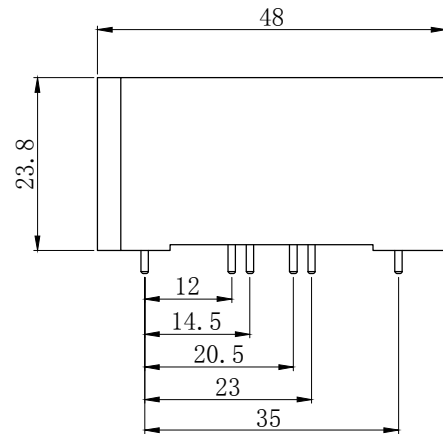
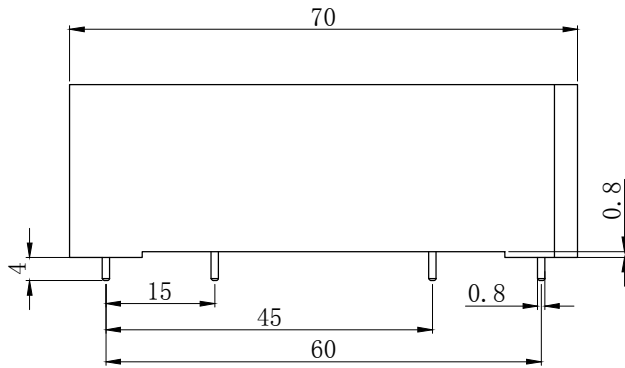
- High Voltage Reed Relay
- 4 Normally open contacts
- Breakdown up to 10KV

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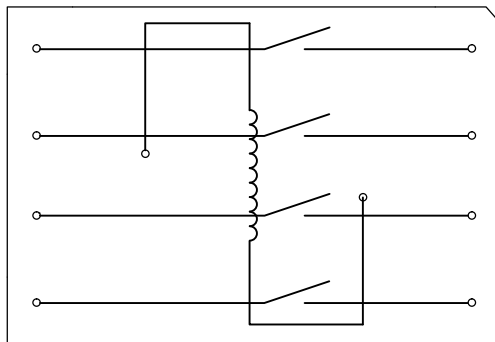
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Unit: mm Scale: 1/1



[Pin Layout]

[Bottom View]



Order Information

HVR12-4A10-01

Coil Parameters		Relay Parameters	
1 Nominal coil voltage	12 VDC	1 Min Breakdown Voltage	10K VDC
2 Max Operating voltage	16 VDC	2 Dielectric Strength coil/contact	10K VDC
3 Max Pull-in voltage	10 VDC	3 Insulation Resistance coil/contact	1.00E+9ohm
4 Min Drop-out voltage	1.0 VDC	4 Operate Time, incl. Bounce	3.0ms
5 Coil Resistance	60 ohm	5 Reset Time	1.5ms
Contact Parameters		6 Capacitance Across Contacts	0.8pF
1 Max Contact Rating	50 W	7 Storage Temperature	-35~+105℃
2 Max Switch Voltage	7.0KVDC	8 Operating Temperature	-20~+70 ℃
3 Max Switch Current	3.0 A	9 Soldering Temperature	5 sec.max 260℃
4 Max Carrying Current	5.0 A		
5 Min Breakdown Voltage	10K VDC		
6 Max Contact Resistance	250 mohm		

Version: 01	Designed by		TITLE	
	Checked by		High Voltage Reed Relay	
	Approved by		P/N	Scale: 1:1
	Date	5th, Oct, 2010	HVR12-4A10-01	Page: 1/1

HVR24-1A10-04-150

- High Voltage Reed Relay
- Coil Voltage 24V
- Breakdown up to 10KV

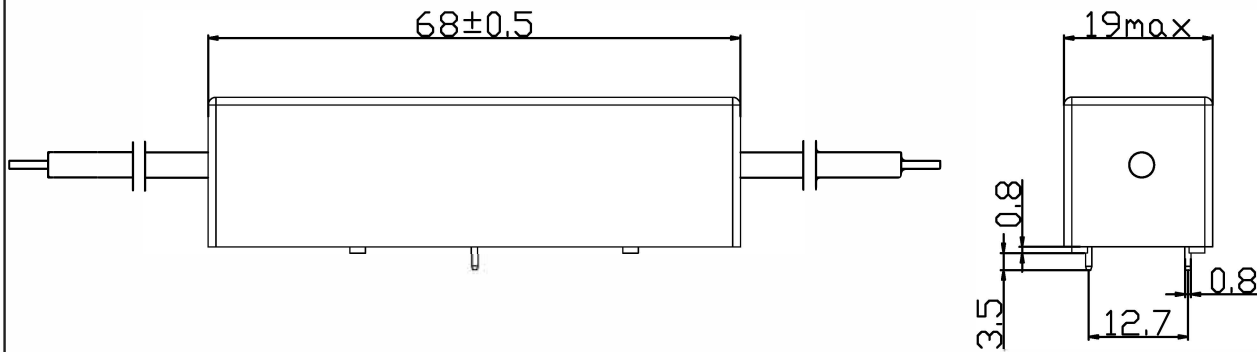
MISENSOR TECH CO.,LTD.

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[Outline Dimension]

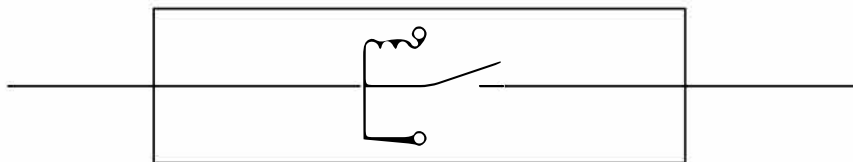
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Scale: 1/1



[Pin Layout]

[Top View]



Order Information

HVR24-1A10-04-150

Coil Parameters		Relay Parameters	
1 Nominal coil voltage	24 VDC	1 Min Breakdown Voltage	10K VDC
2 Max Operating voltage	29 VDC	2 Dielectric Strength coil/contact	15K VDC
3 Max Pull-in voltage	18.0 VDC	3 Insulation Resistance coil/contact	1.00E+12ohm
4 Min Drop-out voltage	2.0 VDC	4 Operate Time, incl. Bounce	3.0ms
5 Coil Resistance	600 ohm	5 Reset Time	1.5ms
Contact Parameters		6 Capacitance Across Contacts	0.8pF
1 Max Contact Rating	50 W	7 Storage Temperature	-35~+105°C
2 Max Switch Voltage	7.5K VDC	8 Operating Temperature	-20~+70 °C
3 Max Switch Current	3.0 A	9 Soldering Temperature	5 sec.max 260°C
4 Max Carrying Current	5.0 A		
5 Min Breakdown Voltage	10K VDC		
6 Max Contact Resistance	150 mohm		

Version: 02	Designed by		TITLE	
	Checked by		High Voltage Reed Relay	
	Approved by		P/N	Scale: 1:1
	Date	5th, Dec, 2012	HVR24-1A10-04-150	Page: 1/1

HVR24-1A10-04

- High Voltage Reed Relay
- Coil Voltage 24V
- Breakdown up to 10KV

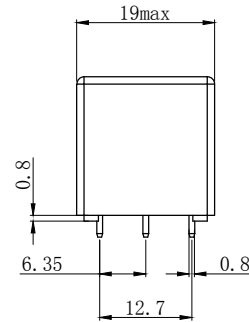
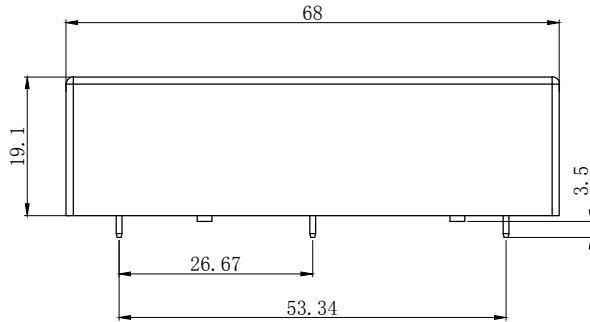
MISENSOR TECH CO.,LTD.

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[Outline Dimension]

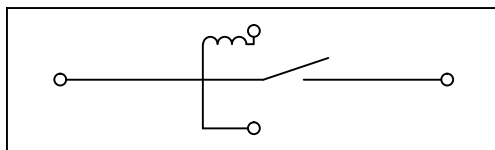
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Scale: 1/1



[Pin Layout]

[Top View]



Order Information

HVR24-1A10-04

Coil Parameters		Relay Parameters	
1 Nominal coil voltage	24 VDC	1 Min Breakdown Voltage	10K VDC
2 Max Operating voltage	29 VDC	2 Dielectric Strength coil/contact	15K VDC
3 Max Pull-in voltage	18 VDC	3 Insulation Resistance coil/contact	1.00E+12ohm
4 Min Drop-out voltage	2 VDC	4 Operate Time, incl. Bounce	3.0ms
5 Coil Resistance	600ohm	5 Reset Time	1.5ms
Contact Parameters		6 Capacitance Across Contacts	0.8pF
1 Max Contact Rating	50 W	7 Storage Temperature	-35~+105℃
2 Max Switch Voltage	7.5K VDC	8 Operating Temperature	-20~+70 ℃
3 Max Switch Current	3.0 A	9 Soldering Temperature	5 sec.max 260℃
4 Max Carrying Current	5.0 A		
5 Min Breakdown Voltage	10K VDC		
6 Max Contact Resistance	150 mohm		

Version: 01	Designed by		TITLE	
	Checked by		High Voltage Reed Relay	
	Approved by		P/N	Scale: 1:1
	Date	5th, Oct, 2010	HVR24-1A10-04	Page: 1/1

HVR24-1A10-06-150

- High Voltage Reed Relay
- Coil Voltage 24V
- Breakdown up to 10KV

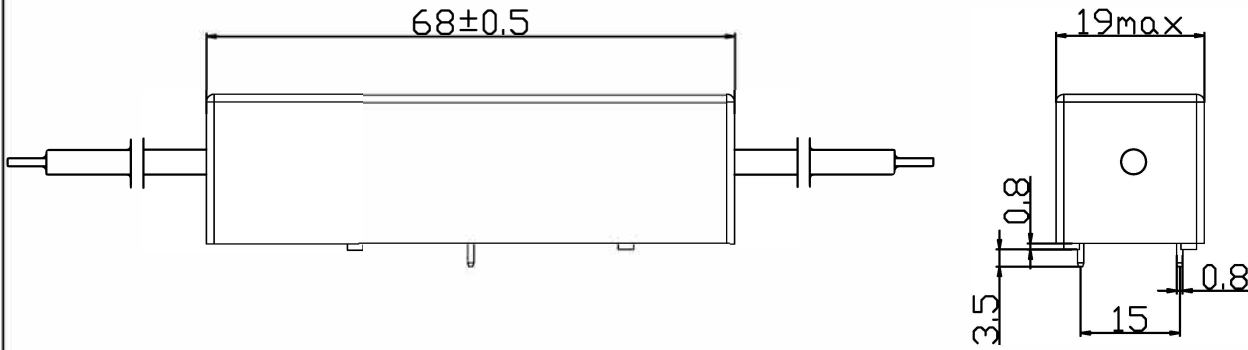
MISENSOR TECH CO.,LTD.

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[Outline Dimension]

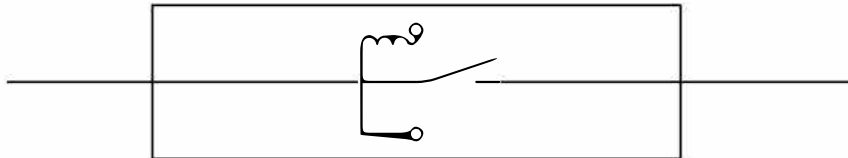
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Scale: 1/1



[Pin Layout]

[Top View]



Order Information

HVR24-1A10-06-150

Coil Parameters		Relay Parameters	
1 Nominal coil voltage	24 VDC	1 Min Breakdown Voltage	10K VDC
2 Max Operating voltage	29 VDC	2 Dielectric Strength coil/contact	15K VDC
3 Max Pull-in voltage	18.0 VDC	3 Insulation Resistance coil/contact	1.00E+12ohm
4 Min Drop-out voltage	2.0 VDC	4 Operate Time, incl. Bounce	3.0ms
5 Coil Resistance	600 ohm	5 Reset Time	1.5ms
Contact Parameters		6 Capacitance Across Contacts	0.8pF
1 Max Contact Rating	50 W	7 Storage Temperature	-35~+105 °C
2 Max Switch Voltage	7.5K VDC	8 Operating Temperature	-20~+70 °C
3 Max Switch Current	3.0 A	9 Soldering Temperature	5 sec. max 260 °C
4 Max Carrying Current	5.0 A		
5 Min Breakdown Voltage	10K VDC		
6 Max Contact Resistance	150 mohm		

Version: 02	Designed by		TITLE High Voltage Reed Relay	
	Checked by			
	Approved by		P/N	Scale: 1:1
	Date	5th, Dec, 2012	HVR24-1A10-06-150	Page: 1/1

High Voltage Reed Relay

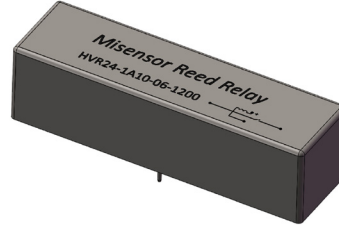
HVR24-1A10-06-1200 Series

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Product Feature

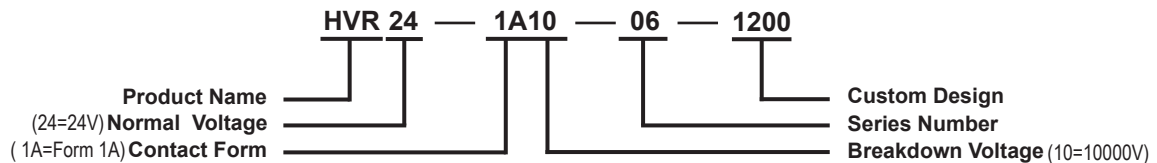
- High Voltage Reed Relay, Breakdown Voltage up to 10000 VDC
- Hermetically Sealed Tungsten Contacts for long life
- Low Contact Resistance
- Excellent Lifetime Characteristics
- Custom Design Available For Coil Resistance



Specifications

■ Coil Specifications	Units	Conditions	HVR24-1A10-06-1200
Nominal Coil Voltage	VDC		24
Max Operating Voltage	VDC		30
Max Pull-in Voltage	VDC	@20°C	19
Min Drop-out Voltage	VDC	@20°C	2.0
Coil Resistance	ohms	±10% @20°C	1200
■ Contact Ratings			
Max Contact Rating	W	Any DC combination of V&A not to exceed their individual max.'s	50
Max Switch Voltage	V	DC or AC peak	7500
Max Switch Current	A	DC or AC peak	3.0
Max Carry Current	A	DC or AC peak	5.0
Max Breakdown Voltage	V	DC or AC peak	10000
Contact Resistance	mohm	Maximum	150
■ Relay Specifications			
Breakdown Voltage	V	DC or AC peak	10000
Isolation Contact to Coil	V	DC or AC peak	15000
Insulation Resistance Contact to Coil	ohms	Minimum, RH<45%, 200VDC test voltage	10 ¹²
Operate Time, incl. Bounce	ms		1.5
Reset Time	ms		0.8
Cpaccitance Across Contact	pF		0.8
Storge Temprature	°C		-35 to +105
Operating Temprature	°C		-20 to +70
Soldering Temprature	°C		5 sec. max 260

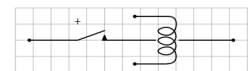
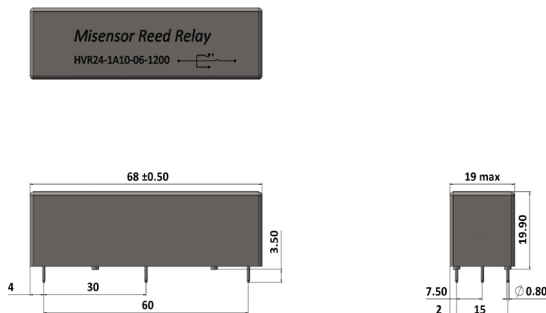
Order Information



Mechanical Dimensions

All Dimensions in mm

Top View



HVR24-1A10-06

- High Voltage Reed Relay
- Coil Voltage 24V
- Breakdown up to 10KV

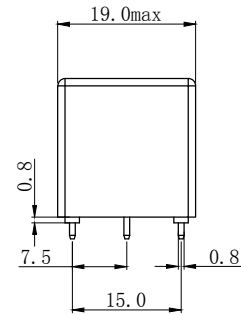
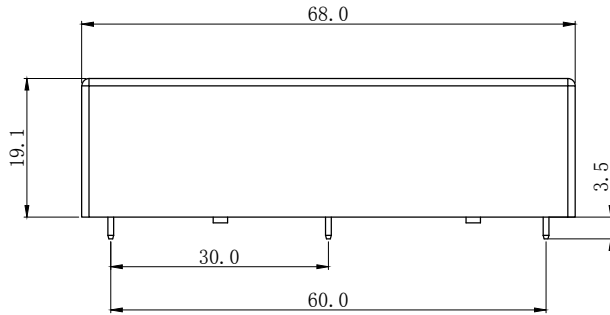
MISENSOR TECH CO,LTD.

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[Outline Dimension]

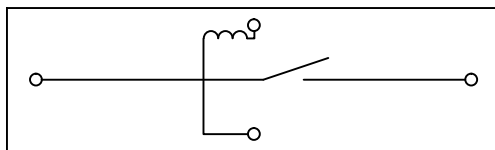
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[Top View]



Order Information

HVR24-1A10-06

Coil Parameters		Relay Parameters	
1 Nominal coil voltage	24 VDC	1 Min Breakdown Voltage	10K VDC
2 Max Operating voltage	29 VDC	2 Dielectric Strength coil/contact	15K VDC
3 Max Pull-in voltage	18 VDC	3 Insulation Resistance coil/contact	1.00E+12ohm
4 Min Drop-out voltage	2 VDC	4 Operate Time, incl. Bounce	3.0ms
5 Coil Resistance	600ohm	5 Reset Time	1.5ms
Contact Parameters		6 Capacitance Across Contacts	0.8pF
1 Max Contact Rating	50 W	7 Storage Temperature	-35~+105°C
2 Max Switch Voltage	7.5K VDC	8 Operating Temperature	-20~+70 °C
3 Max Switch Current	3.0 A	9 Soldering Temperature	5 sec.max 260°C
4 Max Carrying Current	5.0 A		
5 Min Breakdown Voltage	10K VDC		
6 Max Contact Resistance	150 mohm		

Version: 01	Designed by		TITLE	
	Checked by		High Voltage Reed Relay	
	Approved by		P/N	Scale: 1:1
	Date	5th, Oct, 2010	HVR24-1A10-06	Page: 1/1

HVR24-1A10-150

- High Voltage Reed Relay
- Coil Voltage 24V
- Breakdown up to 10KV

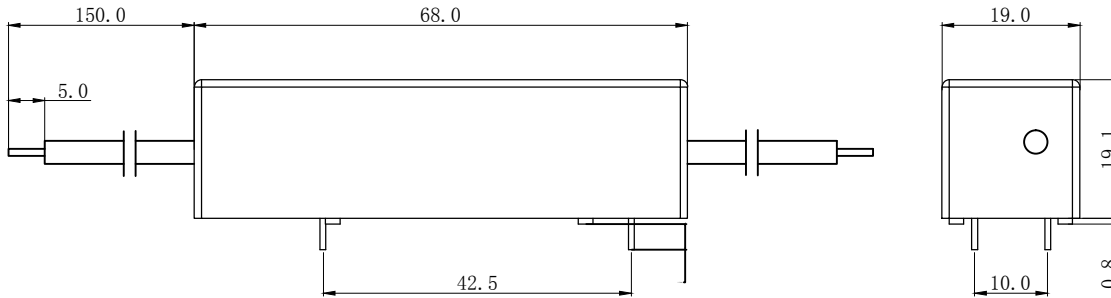
MISENSOR TECH CO,LTD.

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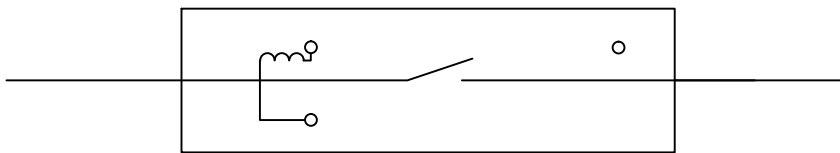
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

[Top View]



Order Information

HVR24-1A10-150

Coil Parameters		Relay Parameters	
1 Nominal coil voltage	24 VDC	1 Min Breakdown Voltage	10K VDC
2 Max Operating voltage	29 VDC	2 Dielectric Strength coil/contact	15K VDC
3 Max Pull-in voltage	18 VDC	3 Insulation Resistance coil/contact	1.00E+12ohm
4 Min Drop-out voltage	2 VDC	4 Operate Time, incl. Bounce	3.0ms
5 Coil Resistance	600ohm	5 Reset Time	1.5ms
Contact Parameters		6 Capacitance Across Contacts	0.8pF
1 Max Contact Rating	50 W	7 Storage Temperature	-35~+105°C
2 Max Switch Voltage	7.5K VDC	8 Operating Temperature	-20~+70 °C
3 Max Switch Current	3.0 A	9 Soldering Temperature	5 sec.max 260°C
4 Max Carrying Current	5.0 A		
5 Min Breakdown Voltage	10K VDC		
6 Max Contact Resistance	150 mohm		

Version: 01	Designed by		TITLE	 
	Checked by		High Voltage Reed Relay	
	Approved by		P/N	Scale: 1:1
	Date	5th, Oct, 2010	HVR24-1A10-150	Page: 1/1

HVR24-1A10-S1

- High Voltage Reed Relay
- Coil Voltage 24V
- Breakdown up to 10KV

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TEL:021- 60976207

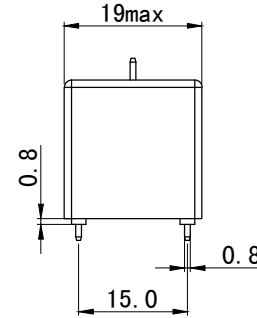
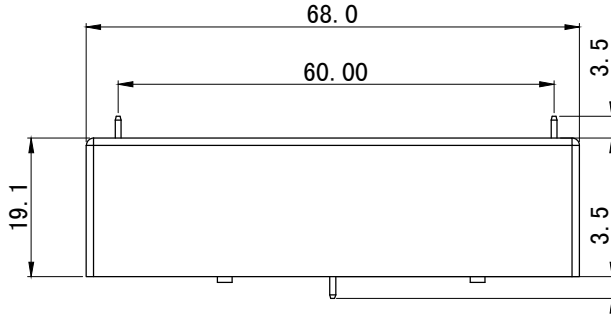
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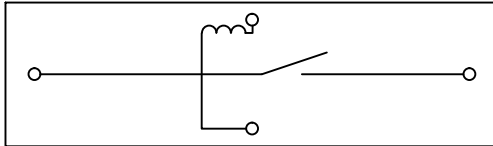
[Outline Dimension]

Unit: mm Scale: 1/1



[Pin Layout]

[Top View]



Order Information

HVR24-1A10-S1

Coil Parameters		Relay Parameters	
1 Nominal coil voltage	24 VDC	1 Min Breakdown Voltage	10K VDC
2 Max Operating voltage	29 VDC	2 Dielectric Strength coil/contact	10K VDC
3 Max Pull-in voltage	18 VDC	3 Insulation Resistance coil/contact	1.00E+12ohm
4 Min Drop-out voltage	2 VDC	4 Operate Time, incl. Bounce	3.0ms
5 Coil Resistance	600ohm	5 Reset Time	1.5ms
Contact Parameters		6 Capacitance Across Contacts	0.8pF
1 Max Contact Rating	50 W	7 Storage Temperature	-35 ~ +105°C
2 Max Switch Voltage	7.0K VDC	8 Operating Temperature	-20 ~ +70 °C
3 Max Switch Current	3.0 A	9 Soldering Temperature	5 sec. max 260°C
4 Max Carrying Current	5.0 A		
5 Min Breakdown Voltage	10K VDC		
6 Max Contact Resistance	150 mohm		

Remark:

RoHS

Designed by

Gu Rui Nian

Checked by

Xu Deng Kui

Approved by

Xu Tao

Date

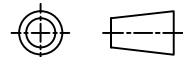
2011. 11. 15

TITLE

High Voltage Reed Relay

P/N

HVR24-1A10-S1



Version: V1.0

Page: 1/1

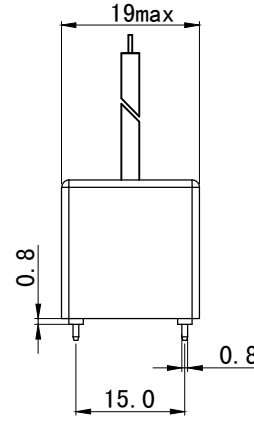
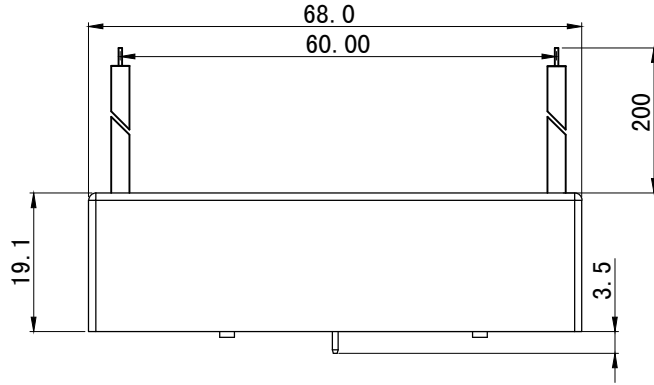
HVR24-1A10-S200

- High Voltage Reed Relay
- Coil Voltage 24V
- Breakdown up to 10KV

MISENSOR TECH CO.,LTD.
 Add:No.25 HangMing Road Hangtou Town,
 Pudong new district, Shanghai
 TEL:021- 60976207
 WhatsApp:+86 13761571029
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 sales@misensor.net

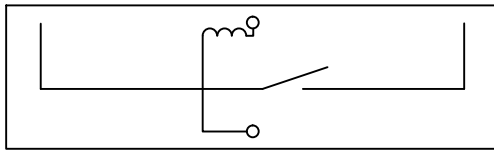
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Unit: mm Scale: 1/1



[Pin Layout]



[Top View]



Order Information

HVR24-1A10-S200

Coil Parameters		Relay Parameters	
1 Nominal coil voltage	24 VDC	1 Min Breakdown Voltage	10K VDC
2 Max Operating voltage	29 VDC	2 Dielectric Strength coil/contact	10K VDC
3 Max Pull-in voltage	18 VDC	3 Insulation Resistance coil/contact	1.00E+12ohm
4 Min Drop-out voltage	2.0 VDC	4 Operate Time, incl. Bounce	3.0ms
5 Coil Resistance	600ohm	5 Reset Time	1.5ms
Contact Parameters		6 Capacitance Across Contacts	0.8pF
1 Max Contact Rating	50 W	7 Storage Temperature	-35 ~+105°C
2 Max Switch Voltage	7.0K VDC	8 Operating Temperature	-20 ~+70 °C
3 Max Switch Current	3.0 A	9 Soldering Temperature	5 sec. max 260°C
4 Max Carrying Current	5.0 A		
5 Min Breakdown Voltage	10K VDC		
6 Max Contact Resistance	150 mohm		

Remark: RoHS	Designed by	Gu Rui Nian	TITLE High Voltage Reed Relay	 
	Checked by	Xu Deng Kui		
	Approved by	Xu Tao	P/N	Version: V1.0
	Date	2011. 11. 15	HVR24-1A10-S200	Page: 1/1

HVR24-1B10-06

- High Voltage Reed Relay
- Coil Voltage 24V
- Breakdown up to 10KV

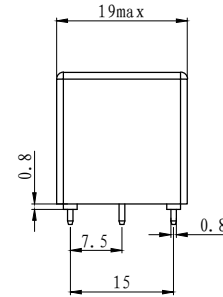
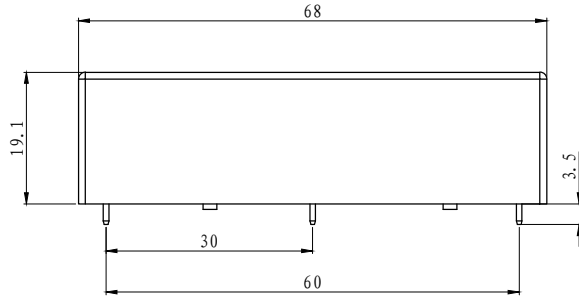
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TEL:021- 60976207
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[Outline Dimension]

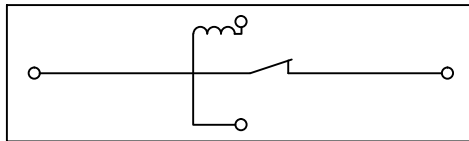
Unit: mm

Scale: 1/1



[Pin Layout]

[Top View]



Order Information

HVR24-1B10-06

Coil Parameters		Relay Parameters	
1 Nominal coil voltage	24 VDC	1 Min Breakdown Voltage	10K VDC
2 Max Operating voltage	29 VDC	2 Dielectric Strength coil/contact	15K VDC
3 Max Pull-in voltage	18 VDC	3 Insulation Resistance coil/contact	1.00E+12ohm
4 Min Drop-out voltage	2.0 VDC	4 Operate Time, incl. Bounce	3.0ms
5 Coil Resistance	600ohm	5 Reset Time	1.5ms
Contact Parameters		6 Capacitance Across Contacts	0.8pF
1 Max Contact Rating	50 W	7 Storage Temperature	-35 +105°C
2 Max Switch Voltage	7.5K VDC	8 Operating Temperature	-20 +70 °C
3 Max Switch Current	3.0 A	9 Soldering Temperature	5 sec. max 260°C
4 Max Carrying Current	5.0 A		
5 Min Breakdown Voltage	10K VDC		
6 Max Contact Resistance	150 mohm		

Version: 01	Designed by		TITLE	
	Checked by		Form B, HV Reed Relay	
	Approved by		P/N	Scale: 1:1
	Date	5th, Oct, 2010	HVR24-1B10-06	Page: 1/1

HVR24-1B10-150

- High Voltage Reed Relay
- Coil Voltage 24V
- Breakdown up to 10KV

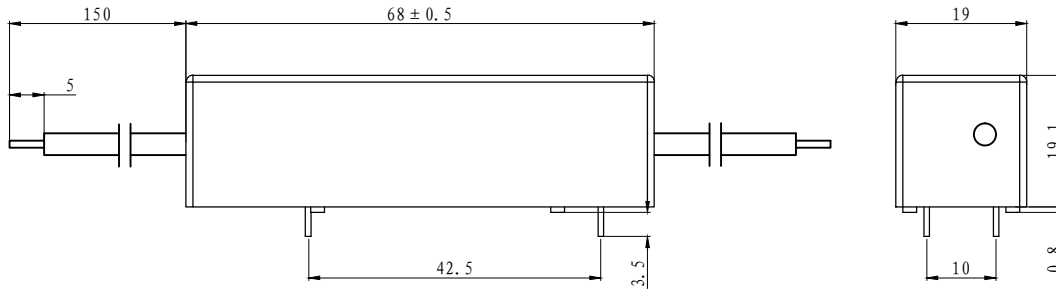
MISENSOR TECH CO,LTD.

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TEL:021- 60976207
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sales@misensor.net

[Outline Dimension]

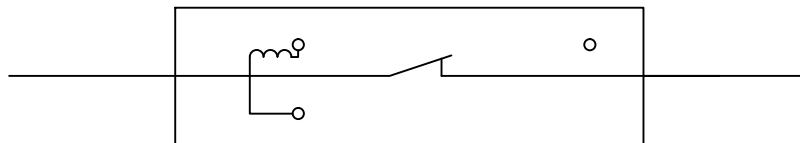
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Scale: 1/1



[Pin Layout]



[Top View]



Order Information

HVR24-1B10-150

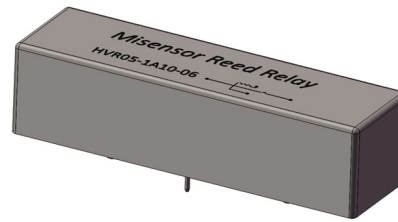
Coil Parameters		Relay Parameters	
1 Nominal coil voltage	24 VDC	1 Min Breakdown Voltage	10K VDC
2 Max Operating voltage	29 VDC	2 Dielectric Strength coil/contact	15K VDC
3 Max Pull-in voltage	18 VDC	3 Insulation Resistance coil/contact	1.00E+12ohm
4 Min Drop-out voltage	2.0 VDC	4 Operate Time, incl. Bounce	3.0ms
5 Coil Resistance	600ohm	5 Reset Time	1.5ms
Contact Parameters		6 Capacitance Across Contacts	0.8pF
1 Max Contact Rating	50 W	7 Storage Temperature	-35 +105°C
2 Max Switch Voltage	7.5K VDC	8 Operating Temperature	-20 +70 °C
3 Max Switch Current	3.0 A	9 Soldering Temperature	5 sec. max 260°C
4 Max Carrying Current	5.0 A		
5 Min Breakdown Voltage	10K VDC		
6 Max Contact Resistance	150 mohm		

Version: 01	Designed by		TITLE	 
	Checked by		Form B, HV Reed Relay	
	Approved by		P/N	Scale: 1:1
	Date	5th, Oct, 2010	HVR24-1B10-150	Page: 1/1

High Voltage Reed Relay HVR05-1A10-06 Series

PRODUCT FEATURE

- High Voltage Reed Relay: Breakdown Voltage up to 10000 VDC
- Hermetically Sealed Tungsten Contacts for long life
- Low Contact Resistance
- Excellent Lifetime Characteristics

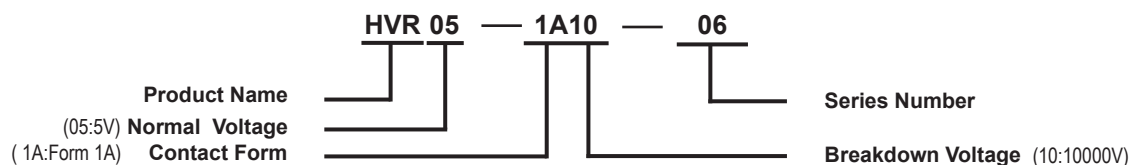


SPECIFICATIONS

Parameters	Units	HVR05-1A10-06	Test Conditions
■ Coil Specifications			
Coil Voltage	VDC	5.0	Normal
Operating Voltage	VDC	6.0	Max.
Pull-in Voltage	VDC	4.0	Max.
Drop-out Voltage	VDC	0.5	Min.
Coil Resistance	ohm	30	±10% @ 20°C
■ Contact Ratings			
Contact Rating	W	50	Max.
Switch Voltage	VACpeak/VDC	7500	Max. at 1mA
Switch Current	A	3.0	Max.
Carrying Current	A	5.0	Max. at 30°C
Breakdown Voltage	VACpeak/VDC	10000	Min.
Contact Resistance	mohm	150	Initial Max.
■ Relay Specifications			
Breakdown Voltage	VACpeak/VDC	10000	Min.
Dielectric Strength Contact/Coil	VACpeak/VDC	15000	Min.
Insulation Resistance Contact/Contact	ohm	10 ¹²	Min. RH<45%, 100V
Insulation Resistance Contact/Coil	ohm	10 ¹²	Min. RH<45%, 100V
Operate Time,incl. Bounce	ms	1.5	Max.
Reset Time	ms	0.8	Max.
■ Environmental Ratings			
Storage temp	°C	-35~+105	
Operate temp	°C	-20~+70	
Solder temp	°C	5 sec.max 260	
Vibration	g	20	
Shock	g	50	

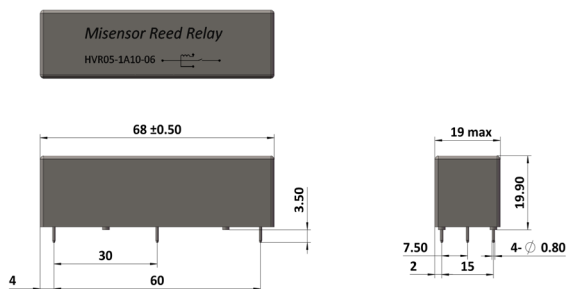
Order Information

Part Number



Mechanical Dimensions

All Dimensions in mm



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