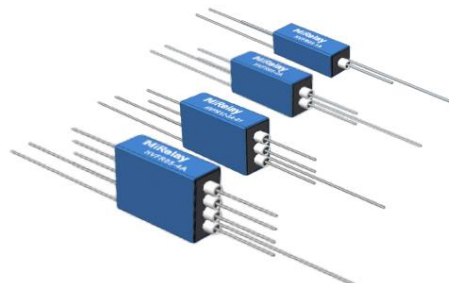


## HVFR series

## High voltage Reed Relay

### 1 Product Features

- High power reed relay, dielectric strength up to 4000VDC
- High load current capability
- High insulation resistance, up to 1013 $\bar{y}$
- Low contact resistance, long life sealed contacts
- External magnetic and electrostatic shielding
- Customized design, in line with ROHS directive



### 2 Performance parameters

project	unit	value	
Relay model	/	HVFR $\bar{y}$ - $\bar{y}$	
Contact rating	In	100	
Maximum switching voltage (Max DC/Peak AC)	IN	1000	
Maximum switching current (Max DC/Peak AC)	A	1.0	
Maximum load current	A	2.5	
Contact resistance	m $\bar{y}$	120	
Dielectric withstand voltage	between break contacts	IN	4000
	Between contact and coil	IN	4000
	Contact and Shield Housing V		4000
Insulation resistance	Oh	1013	
Pull-in time	ms	1.0	
release time	ms	1.0	
Vibration (0 $\bar{y}$ 2000Hz) Shock	G	20	
(11ms, 1/2 sine wave)	G	50	
Operating temperature	$\bar{y}$	-20 $\bar{y}$ +70	
Storage temperature	$\bar{y}$	-35 $\bar{y}$ +105	
life expectancy	Ops	5 $\times$ 10 <sup>7</sup> (at 500VDC-100mA)	
Dimensions	/	See each dimension drawing	

### 3 coil parameters

model	Rated voltage (VDC)	operating voltage (VDC)	release voltage (VDC)	maximum voltage (VDC)	coil resistance ( $\pm$ 10% $\bar{y}$ at 20 $\bar{y}$ )
HVFR $\bar{y}$ -1A	5	4	0.5	6.5	100
	12	9	1	16	400
HVFR $\bar{y}$ -2A	24	18	2	29	1600



model	Rated voltage (VDC)	Operating voltage (VDC)	release voltage (VDC)	maximum voltage (VDC)	Coil resistance (±10% at 20°C)
HVFR $\ddot{y}$ -3A	12	9	1	16	400
	24	18	2	29	1200
HVFR $\ddot{y}$ -4A	12	9	1	16	300
	24	18	2	29	1200

4 Example of type designation

HVFR  $\ddot{y}$  -  $\ddot{y}$   $\ddot{y}$ -(XXX)  $\ddot{y}$   $\ddot{y}$   $\ddot{y}$   $\ddot{y}$  \_\_\_\_\_

$\ddot{y}$  Product model: HVFR

$\ddot{y}$  Coil voltage: 05: 5VDC, 12: 12VDC, 24: 24VDC

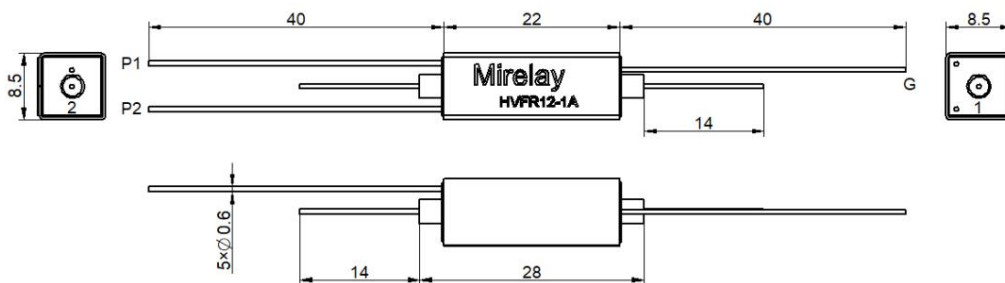
$\ddot{y}$  Contact form: 1A: one group of normally open, 2A: two groups of normally open, 3A: three groups of normally open, 4A: four groups of normally open

$\ddot{y}$  Installation form: None: Vertical installation, 01: Flat installation

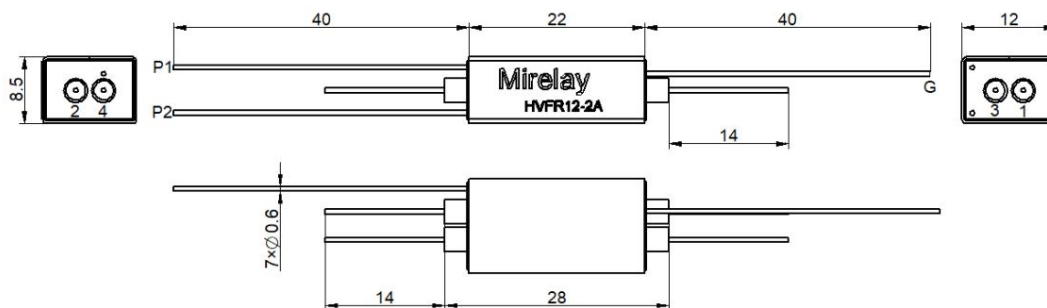
$\ddot{y}$  Special feature number: subject to customer needs

## 5 Dimensions

1) HVFR $\ddot{y}$ -1A

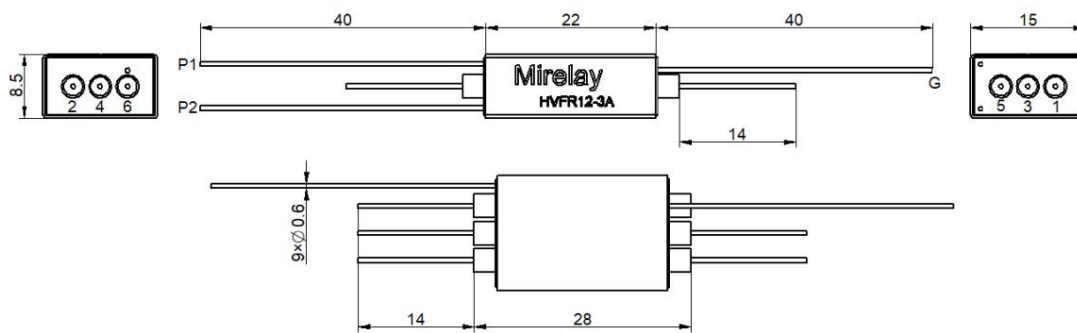


2) HVFR $\ddot{y}$ -2A

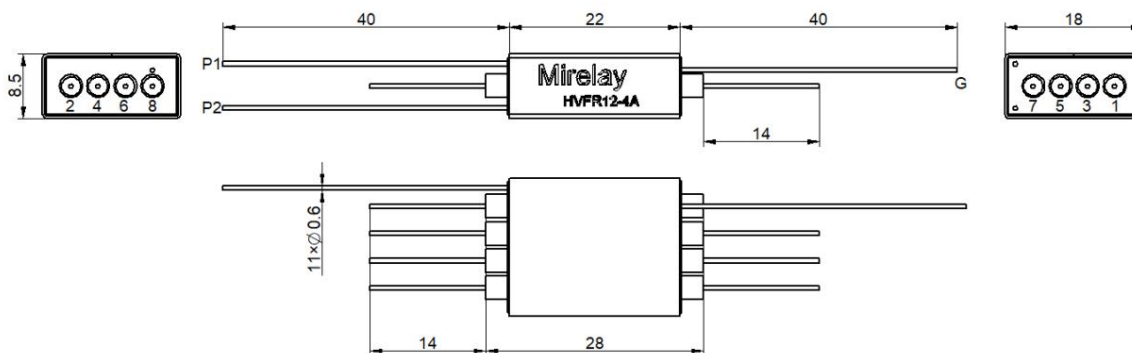




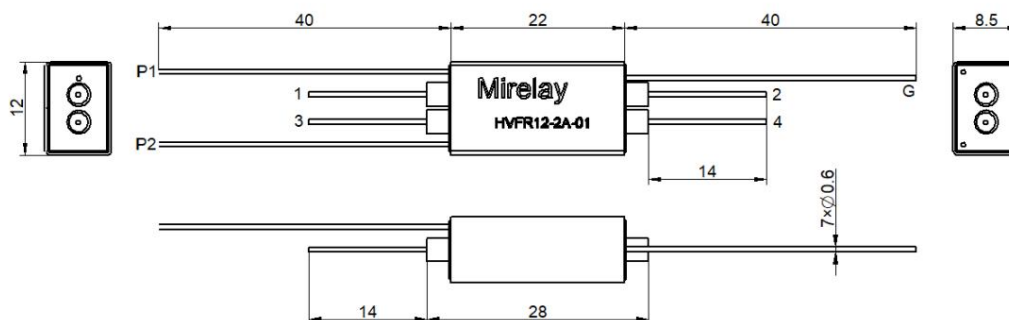
### 3) HVFRy-3A



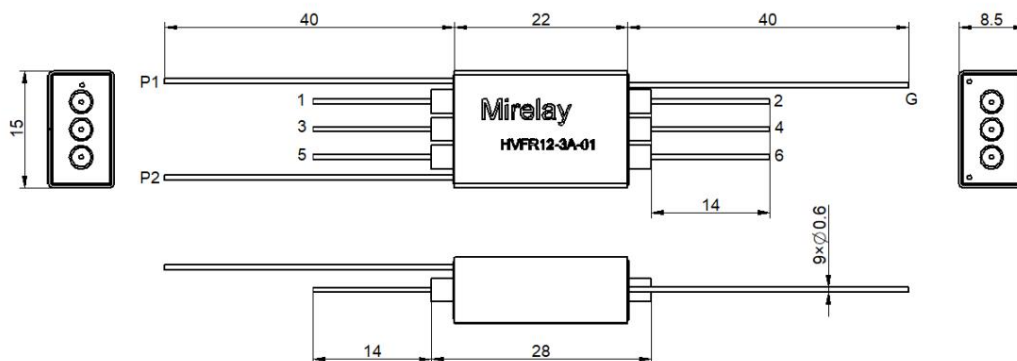
### 4) HVFRy-4A



### 5) HVFRy-2A-01

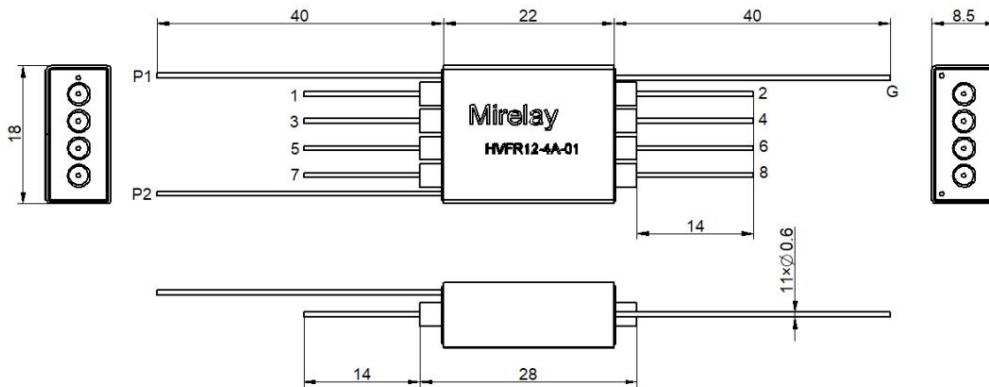


### 6) HVFRy-3A-01



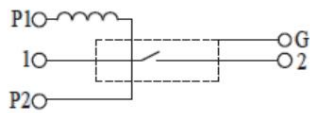


## 7) HVFRy-4A-01

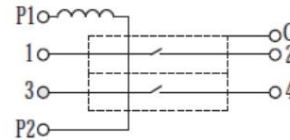


## 6 Wiring Diagram

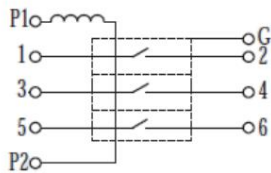
### 1) HVFRy-1A



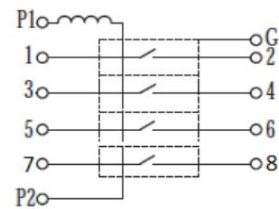
### 2) HVFRy-2AyHVFRy-2A-01



### 3) HVFRy-3AyHVFRy-3A-01



### 4) HVFRy-4AyHVFRy-4A-01



## 7 Precautions for use y Avoid

installing the relay in places directly exposed to rain, or places with strong magnetic fields, or close to objects with heat radiation. y Switching

inductive load or capacitive load system will generate peak voltage or current, it is recommended to use a protection circuit, otherwise, the relay may be damaged. y Avoid excessive bulk density in use, which may affect the electrical characteristics of the relay. y If the mechanical impact strength is too large, it will cause the failure of the relay.

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



statement:

This information is for customers' reference only, and the specification parameters may change due to product improvement, etc. Each product involved is subject to the "Product Commitment Letter" and samples without prior notice. The performance parameter requirements of relays in different application fields are different, so customers should choose the appropriate product according to the specific use conditions. If you have any questions, please contact Shanghai Migaoli Electronics Co., Ltd. for more technical support.