

## MINIATURE POWER LATCH RELAY

# HC-5A



### ▶ Contact data 触点参数

Contact form	1A, 2A, 1A1B
Contact resistance	Max.50mΩ
Nominal switching capacity	5A 250VAC 5A 30VAC
Max.Switching power	1250VA 150W
Max.Switching voltage	250VA 30VDC
Max.Switching current	5A
Contact material	Silver alloy
Weigh	5g

### ▶ Characteristics 性能参数

Insulation resistance	Min.1000MΩ
Initial breakdown voltage	3000VAC 1000VAC 2000VAC
-Between coil and contacts	
-Between open contacts	
-Between contacts sets	
Operate time (set & reset time)	Max.10ms
Release time	Max.5ms
Vibration resistance	10-55Hz, 1.5mm DA
Shock resistance	100m/s <sup>2</sup>
Ambient humidity	(95±3)% at 40°C
Ambient temperature	-40°C to +70°C
Life expectancy	1×10 <sup>6</sup> min.operations 1×10 <sup>7</sup> min.operations
-Electrical	
-Mechanical (at 180 cpm)	

### ▶ Coil data 线圈参数

#### 1.Single Side Stable (1 coil) 单线圈单稳态继电器

Normal voltage(VDC)	Pick-up voltage VDC(Max.)	Drop-out voltage VDC(Min.)	Normal current (mA±10%)	Coil resistance (Ω±10%)	Power consumption (mW)
1.5	1.2	0.15	200	7.5	300
3	2.4	0.3	100	30	300
5	4	0.5	60	83	300
6	4.8	0.6	50	120	300
9	7.2	0.9	33.3	270	300
12	9.6	1.2	25	480	300
24	19.2	2.4	12.5	1920	300

#### ◆ Features

- High breakdown voltage 3000VAC between coil and contacts, 1000VAC between open contacts meeting FCC Part 68
- Contact rating:5A/250VAC
- Contact form:1A,2A,1A1B
- Latching types available
- Dimension:20.2\*11\*10mm(L\*W\*H)
- UL approval
- ROHS compliance

#### ◆ 产品特点

- 高耐压，高绝缘
- 触点负载：5A/250VAC
- 触点形式：1A,2A,1A1B
- 可提供磁保持型
- 产品尺寸：20.2\*11\*10mm(长\*宽\*高)
- UL认证
- 产品符合ROHS要求

#### ◆ Applications

- Lighting control systems
- Movement sensors (e.g. passive infrared sensors)
- Home automation applications (bus systems remote switching)
- Electronic switches for fixed installations
- Relay protection of electric power system

#### ◆ 应用领域

- 照明控制系统
- 运动传感器 (例如无源红外传感器)
- 家庭自动化应用 (总线系统 遥控开关)
- 固定安装电子开关
- 电力继电器保护

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### ▶ Coil data 线圈参数

#### 2.Latching (1 coil) 单线圈双稳态磁保持继电器

Normal voltage(VDC)	Set & reset voltage VDC(Max.)	Normal current (mA±10%)	Coil resistance (Ω±10%)	Power consumption (mW)
1.5	1.2	100	15	150
3	2.4	50	60	150
5	4	30	167	150
6	4.8	25	240	150
9	7.2	16.7	540	150
12	9.6	12.5	960	150
24	19.2	6.3	3840	150

#### 3.Latching (2 coil) 双线圈双稳态磁保持继电器

Normal voltage(VDC)	Set & reset voltage VDC(Max.)	Normal current (mA±10%)	Coil resistance (Ω±10%)	Power consumption (mW)
1.5	1.2	200	7.5	300
3	2.4	100	30	300
5	4	60	83	300
6	4.8	50	120	300
9	7.2	33.3	270	300
12	9.6	25	480	300
24	19.2	12.5	1920	300

### ▶ Ordering information 订货标记

**HC-5A L2 24 2a R**

Model NO .	Sort	Coil Voltage	Contact Form	Polarity
HC-5A	Nil:Single Side Stable L1:1 Coil Latching L2:2 Coil Latching	1.5-24VDC	1a1:A 1a1b:1A1B 2a:2A	Nil:Standard Polarity R:Reverse Polarity

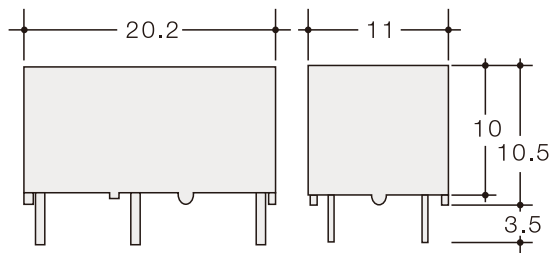
# MINIATURE POWER LATCH RELAY

## HC-5A

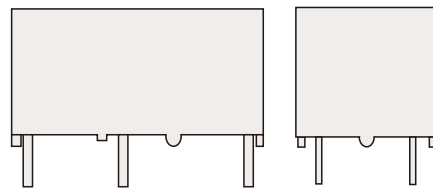


### ▶ Dimensions (unit:mm) 外型尺寸、接线、安装孔位图 (单位:mm)

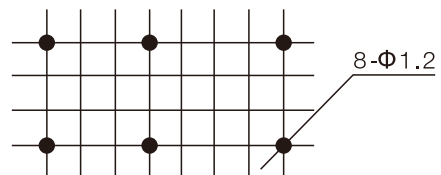
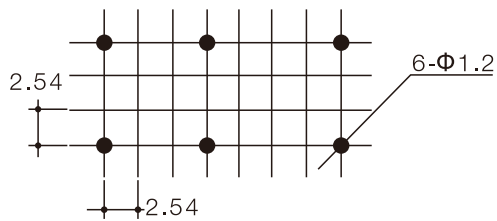
Single Side Stable  
LATCHING(1 COIL)



LATCHING(2 COIL)



### ▶ PCB layout 线路板布置图



### ▶ Schematic 底视电路图

