

# 型号/model: HRA series

## 1. 安全认证/SAFETY APPROVAL

认证 Certified	CQC	TUV	UL/CUL
档案号码 File No.	CQC19002211241	B0855120002	E468064
安全认证 负载 SAFETY APPROVAL RATING	NO: 10A/250VAC,100k cycles 15A/125VAC,100k cycles NC: 5A/250VAC,50kcy cles 10A/277VAC 10kcycles	NO: 10A/250VAC,100k cycles 15A/125VAC,100k cycles 20 op/minutes NC: 5A/50VAC,50k cycles EN60730-1:2011: 10A/250VAC, 6000 cycles,	NO: 10A/277VAC,50k cycles 15A/125VAC,50k cycles TV-5 120VAC,25k cycles NC: 5A/277VAC,50k cycles

## 2. 订货标记 ORDERING INFORMATION

HRA - X - X D X X X (如: HRA-S-12DA)

a b c d e f g

a: 产品型号/model

b: 封装形式/construction: S

S: 防焊剂型/flux proof type;

c: 线圈电压/coil voltage: 3, 5, 6, 9, 12, 18, 24, 48(VDC)

d: 线圈功耗/coil power: 0.36W;

e: 触点形式: A、B、C

A: 常开型/ normal open

B: 常闭型/normal close

C: 转换型/change over

f: 触点材质/contact material: T 或空/ T or blank



T: AgSnO<sub>2</sub>;

Blank: AgCdO

g: 特殊代码: 000-999

### 3. 线圈参数 COIL DATA (At 20°C)

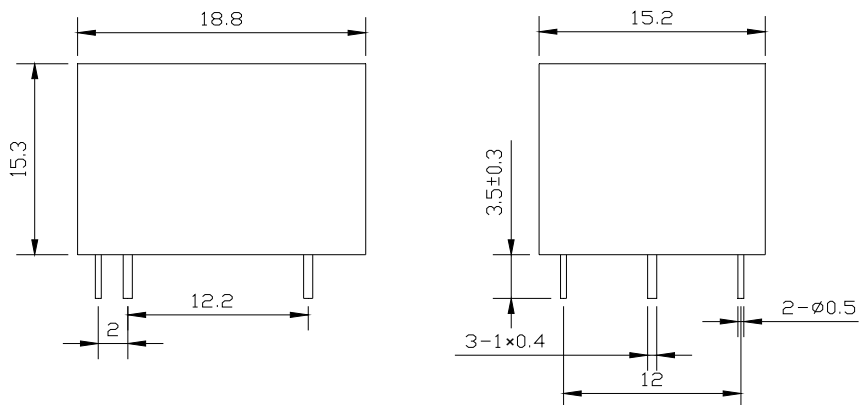
额定电压 Rated Voltage (VDC)	额定电流 Rated current ±10% (mA)	线圈电阻 Coil resistance ±10%	最大连续 电压 Max. continuous Voltage	吸合电压 Suction voltage (Max)	释放电压 Release voltage (Min)	线圈功率 Coil power
3	120	25	额定电压的 130%  130 % of Rated voltage	额定电压的 75%  75 % of Rated voltage	额定电压 5%  5 % of Rated voltage	Approx. 0.36W
5	71.4	70				
6	60	100				
9	40	225				
12	30	400				
18	20	900				
24	15	1600				
48	7.5	6400				

### 4. 规格 SPECIFICATION

触点材质 Contact material	AgSnO <sub>2</sub> , AgCdO	
接触电阻 Contact resistance (初始值 Initial )	100mΩ Max.	
吸合时间 Operate time	10ms Max.	
释放时间 Release time	5ms Max.	
绝缘电阻 Insulation resistance	1,00MΩ Min.(DC500V)	
绝缘等级 Insulation system	Class F,	
绝缘强度 Dielectric strength	Between open contacts: AC750V, 50/60Hz for 1min.	
	Between coil and contact: AC1500V, 50/60Hz for 1min	
振动 Vibration resistance	Functional	10~55Hz at double amplitude of 1.5mm
冲击 Shock resistance	Functional	98m/s <sup>2</sup> 11ms
	Destructive	980m/s <sup>2</sup> 11ms
寿命 Life expectancy	机械 Mechanical	10,000,000 cycles (18000 cycles/h)
	电气 Electrical	见安规认证
环境温度 Ambient temperature	-40°C~+85°C/-40°C~105°C (No condensation)	
重量 Weight	Approx. 9.5g	

## 5. 尺寸/Dimensions

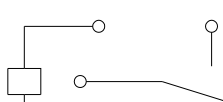
### 外形尺寸 OUTLINE DIMENSIONS



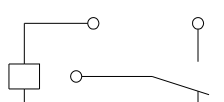
公差/TOLERANCE: <1:  $\pm 0.2$   
 <5:  $\pm 0.3$   
 >5:  $\pm 0.4$

### 接线图 WIRING DIAGRAM

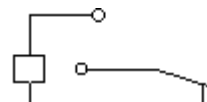
(底视图 BOTTOM VIEW)



1A



1C

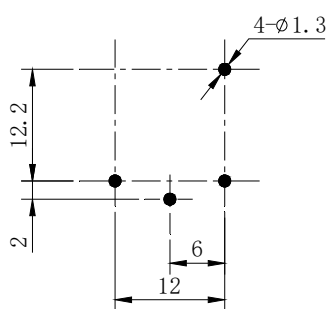


1B

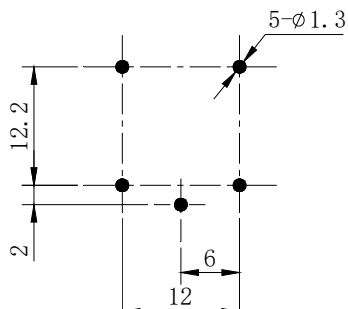
BOTTOM VIEW

### PCB 板布局 PC BOARD LAYOUT

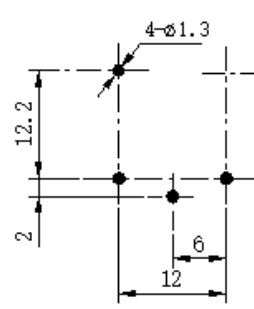
(底视图 BOTTOM VIEW)



1A



1C



1B

公差/TOLERANCE:  $\pm 0.1$