
**特点 Features:**

- 触点容量: 20A触点切换能力  
Contact switching capability: 20A.
- 低功耗  
Low power consumption: 0.36W
- 超小型, 标准印刷线路板式  
Subminiature, standard PCB type

**触点参数 CONTACT DATA**

型号	Model	YQ501
触点形式	Contact Arrangement	1A、1B、1C
接触电阻	Contact Resistance	100mΩ Max.
触点材料	Contact Material	银合金 Silver Alloy
额定负载(阻性)	Contact Rating ( Res.Load )	20A 14VDC, 5A 250VAC
最大切换电流	Max. Switching Current	20A
最大切换电压	Max. Switching Voltage	30VDC /250VAC
最大切换功率	Max. Switching Power	280W/1250VA
机械寿命	Mechanical endurance	1x10 <sup>7</sup> 次 OPS
电气寿命	Electrical endurance	1x10 <sup>5</sup> 次 OPS

**性能参数 CHARACTERISTICS**

吸合时间(额定电压下)	Operate Time ( at nomi.volt. )	10ms Max.
释放时间(不带二极管)	Release Time ( without diode )	5ms Max.
绝缘电阻	Insulation Resistance	100MΩ Min.( 500VDC )
介质耐压	Dielectric Strength	触点与触点间 Between Open Contacts : 500VAC, 50/60Hz 1 min.
		触点与线圈间 Between Coil & Contacts: 500VAC, 50/60Hz 1 min.
抗振性	Vibration resistance	误动作 Functional: 10~55Hz 双振幅 1.5mm ( DA )
		耐久 Destructive: 10~55Hz 双振幅 1.5mm ( DA )
抗冲击	Shock resistance	误动作 Functional: 10G Min.
		耐久 Destructive: 100G Min.
环境温度	Ambient Temperature	-40°C~+125°C (不冷凝 No condensation)
重量	Unit Weight	约 Approx. 6.0g

**线圈参数 COIL DATA (at 23°C)**

额定电压 Rated voltage (VDC)	额定电流 Rated current ±10%(mA)	线圈电阻 Coil resistance ±10%(Ω)	最大连续外加电压 Max allowable voltage VDC (Max.)	吸合电压 Operate voltage VDC (Max.)	释放电压 Release voltage VDC (Min.)	额定功率 Rated coil power (W)
5	72.0	69	额定电压的 of rated voltage 130 %	额定电压的 of rated voltage 70 %	额定电压的 of rated voltage 10 %	约 approx. 0.36
6	60.0	100				
9	40.0	225				
12	30.0	400				
24	15.0	1600				
5	120.0	42				约 approx. 0.6
6	100.0	60				
9	66.7	135				
12	50.0	240				
24	25.0	960				

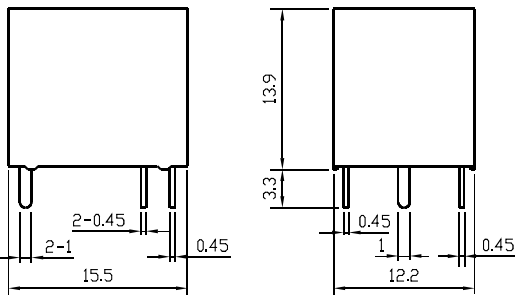
## 订货标记示例 ORDERING INFORMATION

YQ501	-S	-1	12	D	M	
				触点形式 Contact form : 无-转换, M-常开, B-常闭 Nil-Form C, M-Form A, B-Form B		
				线圈功耗 Coil power : D-0.6 W, L-0.36W		
				线圈规格 Coil voltage : 5,6,9,12,24 (VDC)		
				触点组数 Number of poles : 1-1组 1-1 Group		
				封装形式 Protective construction : S-塑封式 S-Flux proofed		
				基本型号 Type designation : YQ501		

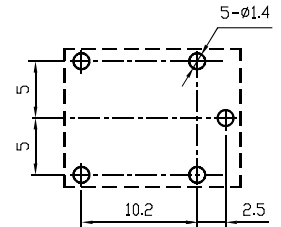
## 外形尺寸、接线图、安装孔位图 (单位: mm)

## OUTLINE DIMENSIONS, WIRING DIAGRAM AND PCB LAYOUT (Unit: mm)

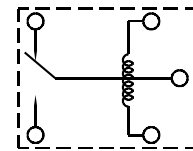
外形尺寸  
Outline Dimensions



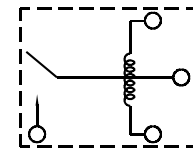
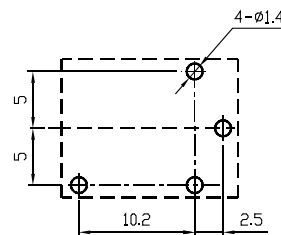
安装孔位图 (底视图)  
PCB Layout (Bottom View)



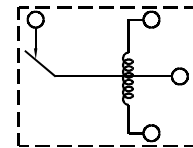
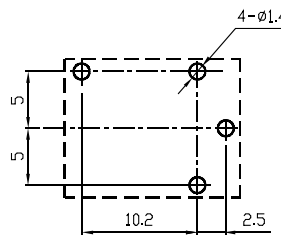
接线图 (底视图)  
Wiring Diagram (Bottom View)



转换型  
1 Form C



常开型  
1 Form A



常闭型  
1 Form B

注 Remark :

1. 未标注尺寸公差

Unmarked dimensional tolerance

- ≤1mm: ±0.2mm ;
- (1~5)mm: ±0.3mm ;
- ≥5mm: ±0.4mm.

2. 安装孔尺寸公差: ±0.1mm.

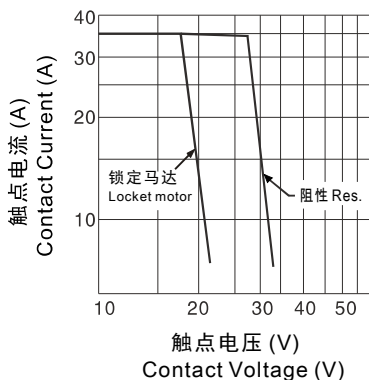
The tolerance of PCB layout is always: ±0.1mm.

3. 引出脚尺寸为预焊前尺寸.

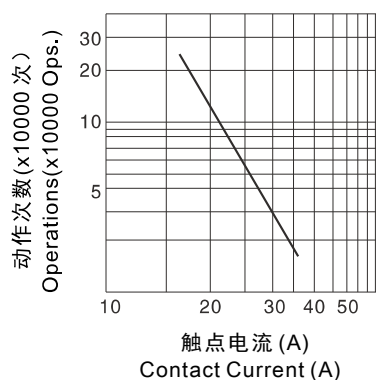
Extended terminal dimension is dimension before soldering.

## 性能曲线图 CHARACTERISTIC CURVES

最大切换功率  
Max. Switching Power



寿命曲线  
Endurance Curve



线圈温升  
Coil Temperature Rise

