


**特点 Features:**

- 高负载20A  
High switching capability:20A.
- 具有六种触点形式  
6 kinds of contact arrangement.
- 外形尺寸：17.25×14.7×19.5mm  
Outline dimensions: 17.25×14.7×19.5mm.

**触点参数 CONTACT DATA**

|          |                             |                         |
|----------|-----------------------------|-------------------------|
| 型 号      | Model                       | YQ512                   |
| 触点形式     | Contact Arrangement         | 1A、1B、1C、2A、2B、2C       |
| 接触电阻     | Contact Resistance          | 50mΩ Max.               |
| 触点材料     | Contact Material            | 银合金 Silver Alloy        |
| 额定负载(阻性) | Contact Rating ( Res.Load ) | 20A 14VDC               |
| 最大切换电流   | Max. Switching Current      | 20A                     |
| 最大切换电压   | Max. Switching Voltage      | 30VDC                   |
| 最大切换功率   | Max. Switching Power        | 280W                    |
| 机械寿命     | Mechanical endurance        | 1x10 <sup>6</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) | 10ms 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℃~+85℃ (不冷凝 No condensation)                        |
| 重 量         | Unit Weight                  | 约 Approx. 12g                                          |

**线圈参数 COIL DATA (at 23℃)**

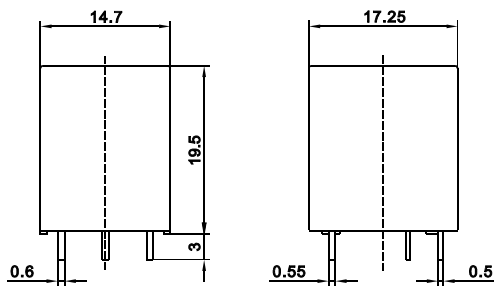
| 额定电压<br>Rated voltage<br>(VDC) | 额定电流<br>Rated current<br>±10%(mA) | 线圈电阻<br>Coil resistance<br>±10%(Ω ) | 最大连续外加电压<br>Max allowable voltage VDC<br>(Max.) | 吸合电压<br>Operate voltage VDC<br>(Max.) | 释放电压<br>Release voltage VDC<br>(Min.) | 额定功率<br>Rated coil power<br>(W) |
|--------------------------------|-----------------------------------|-------------------------------------|-------------------------------------------------|---------------------------------------|---------------------------------------|---------------------------------|
| 6                              | 214.3                             | 28.0                                | 额定电压的<br>of rated voltage<br>150 %              | 额定电压的<br>of rated voltage<br>70 %     | 额定电压的<br>of rated voltage<br>10 %     | 约 approx.<br>1.1                |
| 12                             | 92.3                              | 130.0                               |                                                 |                                       |                                       |                                 |
| 24                             | 46.2                              | 520.0                               |                                                 |                                       |                                       |                                 |

订货标记示例 ORDERING INFORMATION

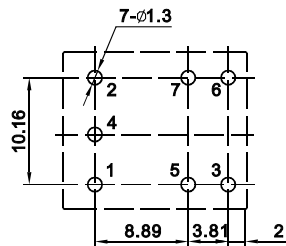
|       |    |    |    |   |   |                                                                    |
|-------|----|----|----|---|---|--------------------------------------------------------------------|
| YQ512 | -S | -1 | 12 | D | M |                                                                    |
|       |    |    |    |   |   | 触点形式 Contact form : M-常开,B-常闭,无-转换 M-Form A , B-Form B , Ni-Form C |
|       |    |    |    |   |   | 线圈功耗 Coil power : D-1.1W                                           |
|       |    |    |    |   |   | 线圈规格 Coil voltage : 6,12,24 (VDC)                                  |
|       |    |    |    |   |   | 触点组数 Number of poles : 1-1组,2-2组 1-1 Group , 2-2 Group             |
|       |    |    |    |   |   | 封装形式 Protective construction : S-塑封式 S-Flux proofed                |
|       |    |    |    |   |   | 基本型号 Type designation : YQ512                                      |

外形尺寸、接线图、安装孔位图 (单位: mm)

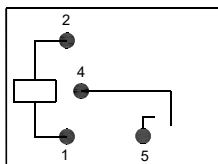
OUTLINE DIMENSIONS,WIRING DIAGRAM AND PCB LAYOUT (Unit: mm)



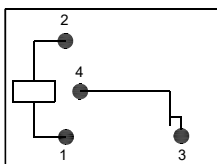
外形尺寸  
Outline Dimensions



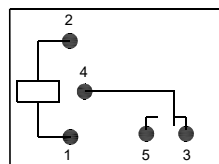
安装孔位图 (底视图)  
PCB Layout ( Bottom View )



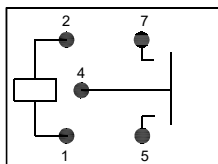
1A



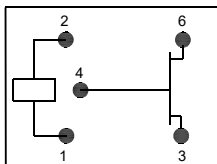
1B



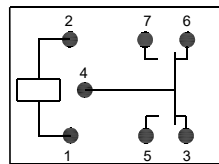
1C



2A



2B



2C

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

注 Remark :

- 1.未标注尺寸公差 Unmarked dimensional tolerance  
 $\leq 1\text{mm}$ :  $\pm 0.2\text{mm}$  ;  $(1\sim 5)\text{mm}$ :  $\pm 0.3\text{mm}$  ;  $\geq 5\text{mm}$ :  $\pm 0.4\text{mm}$ .
- 2.安装孔尺寸公差:  $\pm 0.1\text{mm}$ .  
The tolerance of PCB layout is always:  $\pm 0.1\text{mm}$ .
- 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

