



## Automotive Relay Series汽车继电器系列--JYT78F

## FEATURES特点

- Up to 20A contact switching capability  
高达20A触点切换能力
- 1 Form A, 1 Form B, 1 Form C and 2 Form A configurations  
具有一组常开、一组常闭、一组转换和二组常开触点形式
- Small volume and anti-shock  
体积小, 防冲击
- Overall dimensions (15.5X12.1X13.8) mm.  
外形尺寸 (15.5X12.1X13.8) mm。



## CONTACT PARAMETERS触点参数

|                                   |                        |            |
|-----------------------------------|------------------------|------------|
| Contact Form触点形式                  | A-1组常开, B-1组常闭, C-1组转换 | 2A(桥式动合触点) |
| Rating Load (Resistive) 额定负载 (阻性) | 20A 14VDC              | 2X6A 14VDC |
| Max. Switching Current最大切换电流      | 35A                    | 2X10A      |
| Max.Switching Voltage最大切换电压       | 16VDC                  | 16VDC      |
| Max.Switching Power最大切换功率         | 280W                   | 2X160W     |

## CHARACTERISTICS性能参数

|                                 |                                                     |                                  |  |
|---------------------------------|-----------------------------------------------------|----------------------------------|--|
| Contact Materials触点材料           | Ag Alloy银合金                                         |                                  |  |
| Contact Resistance接 触 电 阻       | 100mΩ Max                                           |                                  |  |
| Operate Time吸 合 时 间             | 10ms.Max                                            |                                  |  |
| Release Time释 放 时 间             | 5ms.Max                                             |                                  |  |
| Insulation Resistance绝 缘 电 阻    | 100MQ Min.(DC500V)                                  |                                  |  |
| Initial Dielectric Strength介质耐压 | between open contacts:<br>触点与触点间:                   | AC550V,50/60Hz 1Min              |  |
|                                 | between contacts and coil:<br>触点与线圈间:               | AC550V,50/60Hz 1Min              |  |
| Vibration Resistance抗 振 动       | Damage limits:<br>耐久:                               | 10～55Hz Double Amplitude双振幅1.5mm |  |
|                                 | Malfunction:<br>误动作:                                | 10～55Hz Double Amplitude双振幅1.5mm |  |
| Shock Resistance抗 冲 击           | Damage limits:<br>耐久:                               | 10G Min                          |  |
|                                 | Malfunction:<br>误动作:                                | 100G Min                         |  |
| Life寿 命                         | Mechanical Life (10800 per hour)<br>机械寿命（每小时10800次） | 1×10 <sup>7</sup>                |  |
|                                 | Electrical Life (600 per hour)<br>电气寿命（每小时600次）     | 1×10 <sup>5</sup>                |  |
| Ambient Temperature环境 温 度       | -40℃～+125℃（No condensation）（不冷凝）                    |                                  |  |
| Unit Weight单位重量                 | 约Approx.6.0g                                        |                                  |  |



COIL RATINGS (at23℃) 线圈参数 (在23℃)

| Coil Nominal Voltage<br>额定电压 (VDC) | Nominal Current<br>额定电流 ±10%(mA) | Coil Resistance<br>线圈电阻 ±10% (Ω) | Max. Continuous Voltage<br>最大连续外加电压        | Pick-Up Voltage<br>吸合电压 (Max)            | Drop-Out Voltage<br>释放电压 (Min)           | Rated power<br>额定功率 |
|------------------------------------|----------------------------------|----------------------------------|--------------------------------------------|------------------------------------------|------------------------------------------|---------------------|
| 6                                  | 60.00                            | 100                              | Coil Nominal Voltage<br>110%<br>额定电压的 110% | Coil Nominal Voltage<br>70%<br>额定电压的 70% | Coil Nominal Voltage<br>10%<br>额定电压的 10% | 0.36W               |
| 9                                  | 40.00                            | 225                              |                                            |                                          |                                          |                     |
| 12                                 | 30.00                            | 400                              |                                            |                                          |                                          |                     |
| 24                                 | 20.00                            | 1600                             |                                            |                                          |                                          |                     |
| 6                                  | 100.00                           | 60                               | Coil Nominal Voltage<br>110%<br>额定电压的 110% | Coil Nominal Voltage<br>70%<br>额定电压的 70% | Coil Nominal Voltage<br>10%<br>额定电压的 10% | 0.6W                |
| 9                                  | 66.67                            | 135                              |                                            |                                          |                                          |                     |
| 12                                 | 50.00                            | 240                              |                                            |                                          |                                          |                     |
| 24                                 | 25.00                            | 960                              |                                            |                                          |                                          |                     |
| 6                                  | 130.00                           | 45                               | Coil Nominal Voltage<br>110%<br>额定电压的 110% | Coil Nominal Voltage<br>70%<br>额定电压的 70% | Coil Nominal Voltage<br>10%<br>额定电压的 10% | 0.8W                |
| 9                                  | 90.00                            | 102                              |                                            |                                          |                                          |                     |
| 12                                 | 70.00                            | 180                              |                                            |                                          |                                          |                     |
| 24                                 | 30.00                            | 720                              |                                            |                                          |                                          |                     |

ORDERING INFORMATION订货标记

| JYT78F-S-DC12V-A-D-(XXX)                                                                                     |   |   |   |   |   |   |
|--------------------------------------------------------------------------------------------------------------|---|---|---|---|---|---|
|                                                                                                              | 1 | 2 | 3 | 4 | 5 | 6 |
| 1.Model Number基本型号 JYT78F                                                                                    |   |   |   |   |   |   |
| 2.Encapsulation form:S-Plastic Sealed SH:Fluk proofed<br>封装形式：S-塑封型 SH-防焊刑型                                  |   |   |   |   |   |   |
| 3.Coil Voltage线圈规格 (VDC) :<br>DC6V,DC9V,DC12V,DC24V                                                          |   |   |   |   |   |   |
| 4.Contact form: A-1Form A, B-1Form B, C-1Form C, 2A-2Form A<br>触点形式：A-1组常开, B-1组常闭<br>C-1组转换, 2A-2组常开        |   |   |   |   |   |   |
| 5.Rated Power:L-0.36W,No-0.6W,D-0.8W<br>额定功率：L-0.36W, 无-0.6W, D-0.8W                                         |   |   |   |   |   |   |
| 6. Customer Special Code :XXX- Customer Special Requirements<br>No - Standard Type<br>客户特性号：XXX-客户特殊要求，无-标准型 |   |   |   |   |   |   |

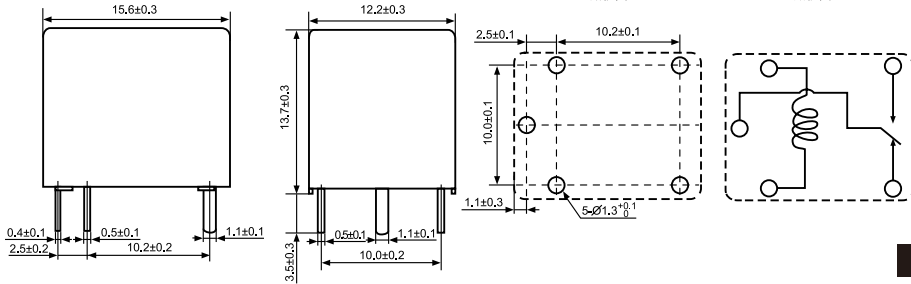
OUTLINE DIMENSIONS (UNIT:mm)外形尺寸 (单位：mm)

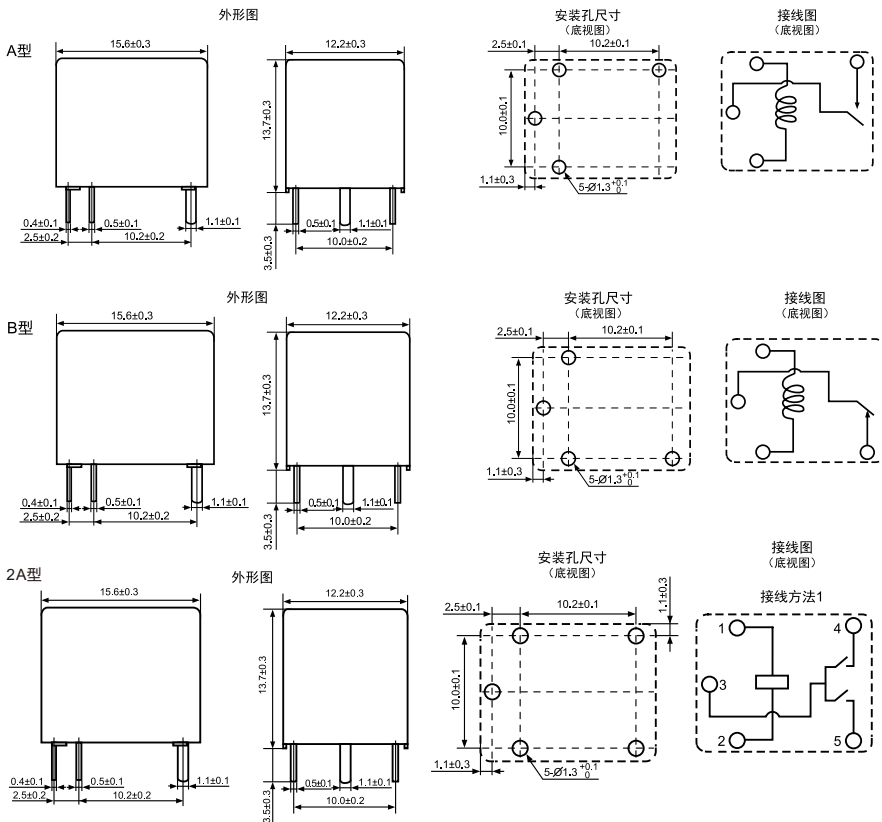
C型

外形图

安装孔尺寸  
(底视图)

接线图  
(底视图)





## TYPICAL USE 典型用途

- Car door lock motor control, Home appliances, Office equipment, Automatic burglar alarm and so on.
- 汽车门锁马达控制, 家电, 办公设备, 自动防盗报警器等。

## PERFORMANCE CHART 性能曲线图

