

**MRS02 Series****Molded Dry Reed Switch****1 Feature**

- ◆ Small single-contact switch
- ◆ High Insulation resistance, up to  $10^{10}\Omega$
- ◆ Suitable for low power operation
- ◆ Suitable for tape or reel packaging
- ◆ Custom Design, conforming to Rohs directive

**2 Performance Data**

| Parameter                                       | Units | Value     |
|-------------------------------------------------|-------|-----------|
| Model                                           | /     | MRS02-□   |
| Rated Power(max.)                               | W     | 10        |
| Switching Voltage(Max DC/Peak AC)               | V     | 180       |
| Switching Current(Max DC/Peak AC)               | A     | 0.5       |
| Carry current(max.)                             | A     | 1.0       |
| Contact Resistance(@0.5V&50mA)                  | mΩ    | 150       |
| Breakdown Voltage                               | VDC   | 200       |
| Insulation Resistance(Rh<45%,100V Test Voltage) | Ω     | $10^{10}$ |
| Operating Time(max.)                            | ms    | 0.6       |
| Release Time(max.)                              | ms    | 0.1       |
| Capacitance(typ.)                               | pF    | 0.3       |
| Vibration Resistance                            | G     | 20        |
| Shock Resistance(11ms, 1/2 正弦波)                 | G     | 30        |
| Operating Temperature                           | ℃     | -40~+130  |
| Storage Temperature                             | ℃     | -50~+130  |

**3 Example of order marking**

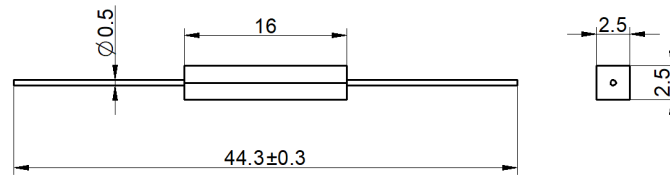
**MRS02 - □ - □ (XXX)**

①      ②      ③      ④

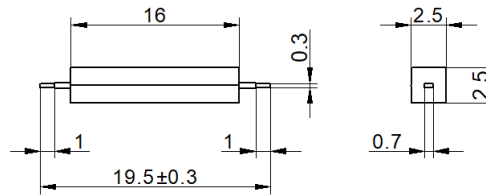
- ① Product model: MRS02
- ② Magnetic sensitivity(AT): A: 05-10; B: 10-15; C: 15-20  
D: 20-25; E: 25-30; F: 30-35; G: 35-40
- ③ PIN mode: 0: Original reed straight pin; 1: Flat straight pin  
2: Flat and curved SMD pins
- ④ Special code: Customer special requirement

## 4 Outline drawing

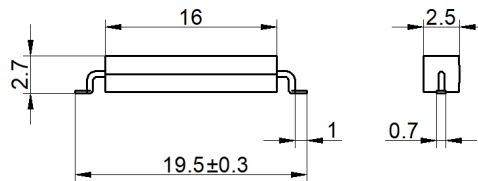
### 1) Original Reed straight pin



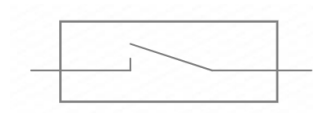
### 2) Flat straight pin



### 3) SMD pin



## 5 Layout



## 6 Precautions for use

- ※ Avoid installation in areas directly exposed to rain, strong magnetic fields, or near objects with thermal radiation.
- ※ Avoid excessive bulk density in use, which may affect the electrical characteristics of the switch.
- ※ Excessive mechanical shock strength may change its magnetic sensitivity or even damage the switch.
- ※ Use appropriate pin tightening or heat dissipation to prevent mechanical or thermal stress during welding.
- ※ The maximum welding temperature is 260℃ and the time is less than 5 seconds.

### ⚠Statement:

The document is for customer reference only. Specifications and parameters may be changed due to product improvement. Specific parameters and performance of each product, please refer to the specifications and samples provided without further notice.

Since parameters vary from application area to application area, so custom product according to the specific conditions of use, if in doubt, please contact Shanghai more technical support.

choose the appropriate  
Electronics Co. , Ltd. for