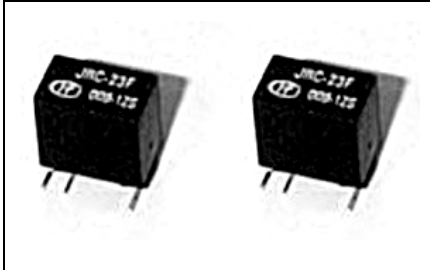




**LOW SIGNAL RELAYS**  
**1 POLE PC BOARD TYPE**

**JRC-23F**



- High sensitivity :150 mW
- 1 pole configurations
- Small size at 12.5L×7.5W×10H mm
- Sealed type available
- UL / CUR File No. E133481

■ CONTACT DATA

|                                                 |                                                                                                           |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Arrangement                                     | 1C                                                                                                        |
| Initial Contact Resistance<br>Max. (at 1A 6VDC) | 100 mΩ                                                                                                    |
| Contact Material                                | Silver Alloy ( Au clad )                                                                                  |
| Contact Rating (Res. Load)                      | 0.5A 125VAC / 1 A 30VDC                                                                                   |
| Max. switching voltage                          | 125VAC / 60 VDC                                                                                           |
| Max. switching current                          | 2 A                                                                                                       |
| Max. switching power                            | 62.5 VA / 30W                                                                                             |
| UL/CUR rating                                   | 0.5 A 125 VAC<br>1 A 30 VAC<br>0.3 A 60 VDC                                                               |
| Expected Life min. operations                   | Mechanical: $1 \times 10^7$ ops ( 36,000 ops/hour )<br>Electrical: $1 \times 10^5$ ops ( 1,800 ops/hour ) |

■ COIL

|                    |                   |                  |
|--------------------|-------------------|------------------|
| Nominal coil power | Sensitive: 0.15 W | Standard : 0.2 W |
|--------------------|-------------------|------------------|

■ SPECIFICATION

|                                                  |                      |
|--------------------------------------------------|----------------------|
| Initial Insulation Resistance                    | 1,000 MΩ 500 VAC     |
| Dielectric Strength<br>Between coil and Contacts | 1,000 VAC            |
| Between open contacts                            | 400 VAC              |
| Operate time (at nomi. Vot.)                     | 5 ms                 |
| Release time (at nomi. Vot.)                     | 5 ms                 |
| Bounce time (at nomi. Vot.)                      | 5 ms                 |
| Temperature rise<br>(at nominal voltage)         | Max. 55 °C           |
| Shock Resistance                                 | 100 m/s <sup>2</sup> |
| Vibration Resistance                             | 10 to 55 Hz 3.3mm    |
| Humidity                                         | 35% to 85%           |
| Ambient temperature                              | -30 °C to 70 °C      |
| Termination                                      | PCB                  |
| Unit weight                                      | 2.2 g                |
| Construction                                     | Sealed               |

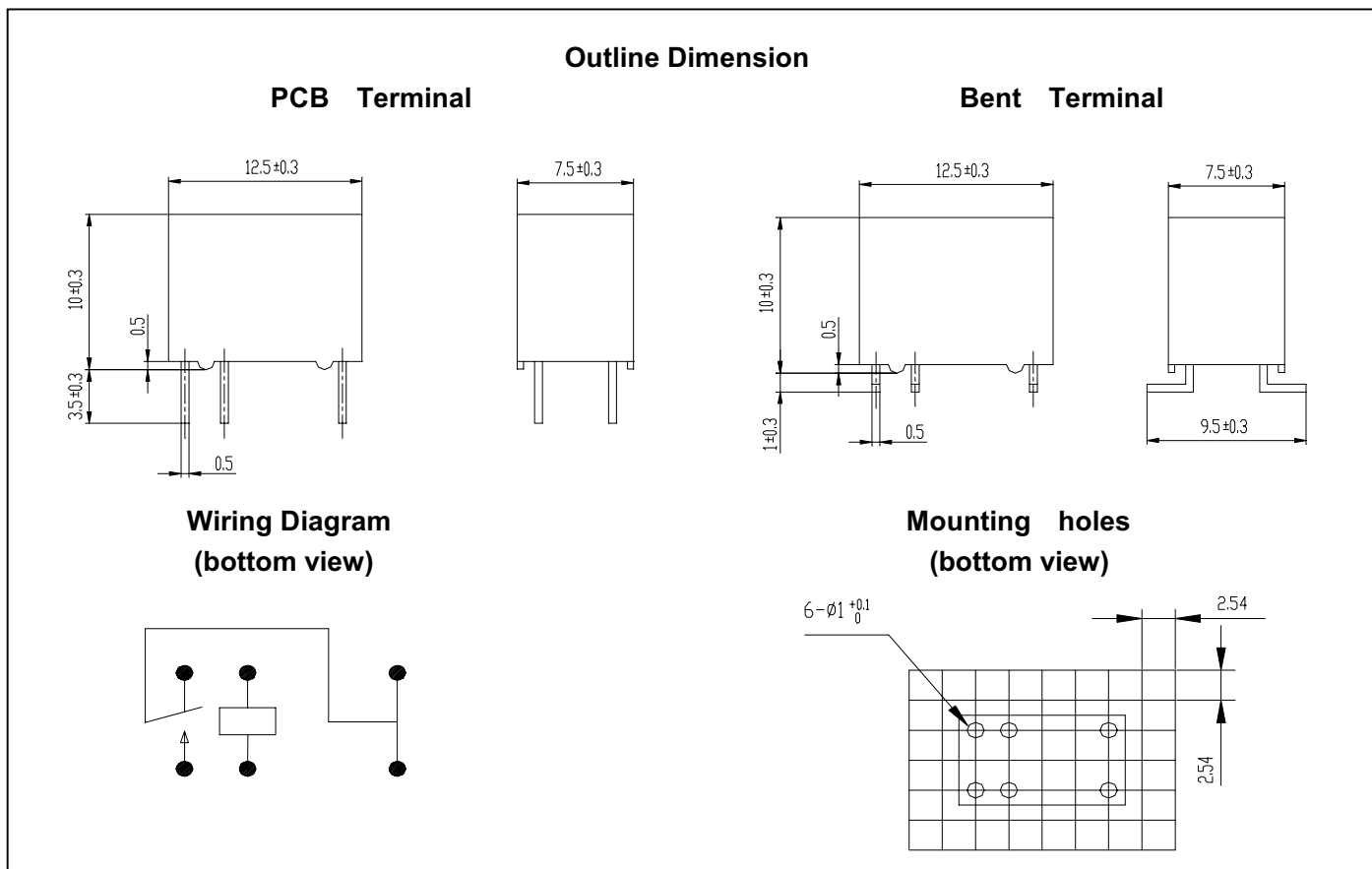
■ TABLE

| Sensitive Type      |                     |                      |                 |                                | Standard Type       |                     |                      |                 |                                |
|---------------------|---------------------|----------------------|-----------------|--------------------------------|---------------------|---------------------|----------------------|-----------------|--------------------------------|
| Nominal Voltage VDC | Pick-up Voltage VDC | Drop-out Voltage VDC | Coil Current mA | Coil Resistance ( at 20 °C ) Ω | Nominal Voltage VDC | Pick-up Voltage VDC | Drop-out Voltage VDC | Coil Current mA | Coil Resistance ( at 20 °C ) Ω |
| 1.5                 | 1.20                | 0.15                 | 100             | $15 \pm 10 \%$                 | 1.5                 | 1.20                | 0.15                 | 100             | $11.3 \pm 10 \%$               |
| 3                   | 2.40                | 0.30                 | 50.0            | $60 \pm 10 \%$                 | 3                   | 2.40                | 0.30                 | 50.0            | $45 \pm 10 \%$                 |
| 5                   | 4.00                | 0.50                 | 29.9            | $167 \pm 10 \%$                | 5                   | 4.00                | 0.50                 | 29.9            | $125 \pm 10 \%$                |
| 6                   | 4.80                | 0.60                 | 25.0            | $240 \pm 10 \%$                | 6                   | 4.80                | 0.60                 | 25.0            | $180 \pm 10 \%$                |
| 9                   | 7.20                | 0.90                 | 16.7            | $540 \pm 10 \%$                | 9                   | 7.20                | 0.90                 | 16.7            | $405 \pm 10 \%$                |
| 12                  | 9.60                | 1.20                 | 12.5            | $960 \pm 10 \%$                | 12                  | 9.60                | 1.20                 | 12.5            | $720 \pm 10 \%$                |
| 24                  | 19.20               | 2.40                 | 6.25            | $3,840 \pm 15 \%$              | 24                  | 19.20               | 2.40                 | 6.25            | $2880 \pm 15 \%$               |

## ■ ORDERING INFORMATION

|                                    |               |                                       |                                                       |   |   |
|------------------------------------|---------------|---------------------------------------|-------------------------------------------------------|---|---|
| JRC-23F /                          | 012           | ----                                  | 1Z                                                    | 3 | S |
| Coil voltage                       | Contact Form  | Termination                           | Version                                               |   |   |
| 1.5, 3, 5, 6,<br>9, 12, 24,<br>VDC | 1Z : 1 Form C | Nil: PCB Terminal<br>3: Bent Terminal | S : Sensitive type 0.15 W<br>P : Standard type 0.20 W |   |   |

## ■ OUTLINE DIMENSIONS ,WIRING DIAGRAM AND PC BOARD LAYOUT



## ■ USEFUL CURVES

