

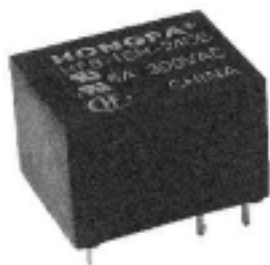
# HONGFA RELAY



## SUBMINIATURE POWER RELAY

SPDT, 6A , PC Board

# HF 8



- 6A switching capabilities
- SPDT configurations
- Subminiature, High sensitive, PCB layout
- Sealed types for automatic wave soldering
- UL & CUR file No. E134517

### CONTACT DATA

|                            |                       |                   |
|----------------------------|-----------------------|-------------------|
| Arrangement                | SPDT                  |                   |
| Initial Contact Resistance | 100mΩ                 |                   |
| Max. (at 1A 24VDC)         |                       |                   |
| Contact Material           | Silver alloy          |                   |
| Contact Rating (Res. Load) | 6A 120VAC<br>6A 24VDC |                   |
| Max. switching voltage     | 300VAC/28VDC          |                   |
| Max. switching current     | 6A                    |                   |
| Max. switching power       | 720VA/144W            |                   |
| UL/CUR rating              | 6A 120VAC/24VDC       |                   |
| Expected                   | Mechanical            | 1X10 <sup>7</sup> |
| Life min. operations       | Electrical            | 1X10 <sup>5</sup> |

### COIL

|                    |       |
|--------------------|-------|
| Nominal coil power | 0.45W |
|--------------------|-------|

### SPECIFICATION

|                               |                               |                      |
|-------------------------------|-------------------------------|----------------------|
| Initial Insulation Resistance | 100MΩ , 500VDC                |                      |
| Dielectric Strength           |                               |                      |
| Between coil and Contacts     | 2000VAC,1minute               |                      |
| Between open contacts         | 750VAC,1minute                |                      |
| Surge Voltage between         | 4000V                         |                      |
| Contacts and coil             |                               |                      |
| Operate time (at nomi. Vot.)  | 6ms                           |                      |
| Release time (at nomi. Vot.)  | 3ms                           |                      |
| Humidity                      | 98%RH, +40°C                  |                      |
| Ambient temperature           | -55 to +90°C<br>-55 to +125°C |                      |
| Shock                         | Functional                    | 100m/s <sup>2</sup>  |
| Resistance                    | Destructive                   | 1000m/s <sup>2</sup> |
| Vibration Resistance          | 1.5mm, 10 to 55Hz             |                      |
| Termination                   | PCB                           |                      |
| Unit weight                   | Approx. 8g                    |                      |
| Construction                  | Sealed and Unsealed           |                      |

### TABLE

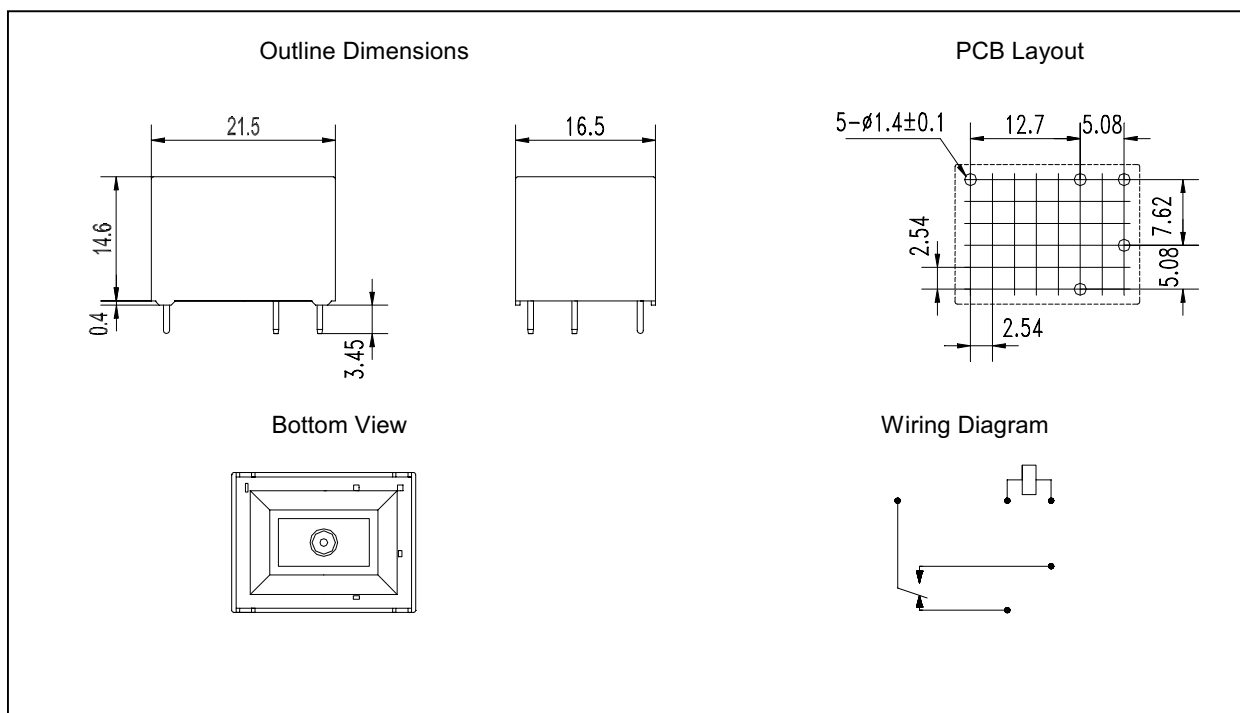
| Nominal Voltage VDC | Pick-up Voltage VDC | Drop-out Voltage VDC | Max. allowable Voltage VDC ( at 20 °C ) | Coil Resistance Tolerance: ±10% Ω |
|---------------------|---------------------|----------------------|---|-----------------------------------|
| 3                   | 2.25                | 0.3                  | 3.9                                     | 20                                |
| 5                   | 3.75                | 0.5                  | 6.5                                     | 56                                |
| 6                   | 4.5                 | 0.6                  | 7.8                                     | 80                                |
| 9                   | 6.75                | 0.9                  | 11.7                                    | 180                               |
| 12                  | 9.0                 | 1.2                  | 15.6                                    | 320                               |
| 18                  | 13.5                | 1.8                  | 23.4                                    | 720                               |
| 24                  | 18.0                | 2.4                  | 31.2                                    | 1280                              |
| 48                  | 36.0                | 4.8                  | 62.4                                    | 3800                              |

\* When require pick-up voltage<75% of nominal voltage, special order allowed.

■ ORDERING INFORMATION

|                         |   |             |   |                            |  |                            |  |          |
|-------------------------|---|-------------|---|----------------------------|--|----------------------------|--|----------|
| HF8                     | — | <b>12</b>   | — | <b>D</b>                   |  | <b>E</b>                   |  | <b>F</b> |
| Coil voltage            |   | Coil Source |   | Classification of type     |  | Insulation Standard        |  |          |
| 3,5,6,9,12,<br>24,48VDC |   | D: DC       |   | E: Sealed<br>Nil: Unsealed |  | F: Class F<br>Nil: Class B |  |          |

■ OUTLINE DIMENSIONS , WIRING DIAGRAM AND PC BOARD LAYOUT



■ USEFUL CURVES

