

HF8509

HIGH POWER LATCHING RELAY



File No.:CH0013854-99



Features

- 60 A switching capabilities
- 4KV dielectric coil to contacts
- Heavy load up to 15000VA
- SPST configurations

CONTACT DATA

| | | | |
|----------------------------|-------------------------|------------|------------|
| Contact Arrangement | 1A | | |
| Initial Contact Resistance | 50mΩ (at 1A 24VDC) | | |
| Contact Material | AgCdO | | |
| Contact Rating (Res. Load) | 60A 250VAC | 50A 250VAC | 40A 250VAC |
| | 5000 OPS | 10000 OPS | 100000 OPS |
| Max. switching voltage | 250VAC | | |
| Max. switching current | 60A | | |
| Max. switching power | 15000VA | | |
| Mechanical life | 1 x 10 ⁶ OPS | | |
| Electrical life | 1 x 10 ⁵ OPS | | |

CHARACTERISTICS

| | | |
|-------------------------------|---------------------------|---------------------|
| Initial Insulation Resistance | 1000MΩ, 500 VDC | |
| Dielectric Strength | Between coil and Contacts | 4000VAC, 1min. |
| | Between open contacts | 1500VAC, 1min. |
| Creepage Distance | 8mm | |
| Operate time (at nomi. Volt.) | 20ms | |
| Release time (at nomi. Volt.) | 20ms | |
| Shock Resistance | Functional | 98m/s ² |
| | Destructive | 980m/s ² |
| Vibration Resistance | DA:1.5mm, 10 to 55Hz | |
| Humidity | 98%, +40°C | |
| Ambient temperature | -40°C to +70°C | |
| Termination | PCB & QC | |
| Unit weight | Approx. 33g | |
| Construction | Sealed & Dust Cover | |

COIL

Coil power Single Coil: 1.0W Double Coil: 2.0W

COIL DATA

| Nominal Voltage VDC | Pick-up Voltage VDC(max.) | Pulse Duration ms (min.) | Coil Resistance Ω | |
|---------------------|---------------------------|--------------------------|-------------------|----------|
| 5 | 3.5 | 50 | Single Coil | 24 |
| 6 | 4.2 | 50 | | 35 |
| 9 | 6.3 | 50 | | 80 |
| 12 | 8.4 | 50 | | 145 |
| 24 | 16.8 | 50 | | 575 |
| 48 | 33.6 | 50 | | 2270 |
| 5 | 3.5 | 50 | Double Coil | 2 x 12 |
| 6 | 4.2 | 50 | | 2 x 17.5 |
| 9 | 6.3 | 50 | | 2 x 40 |
| 12 | 8.4 | 50 | | 2 x 72 |
| 24 | 16.8 | 50 | | 2 x 285 |
| 48 | 33.6 | 50 | | 2 x 1135 |

Notes:When requiring other nominal voltage, special order allowed.



HONGFA RELAY
ISO9001/QS9000/ISO14000 CERTIFIED

ORDERING INFORMATION

HF8509-1 / 012

S

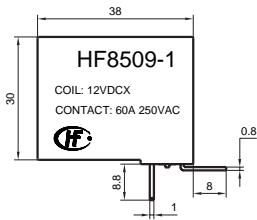
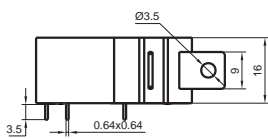
Type HF8509-1: Single Coil
HF8509-2: Single Coil HF8509-3: Double Coil

Coil voltage 5, 6, 9, 12, 24, 48VDC

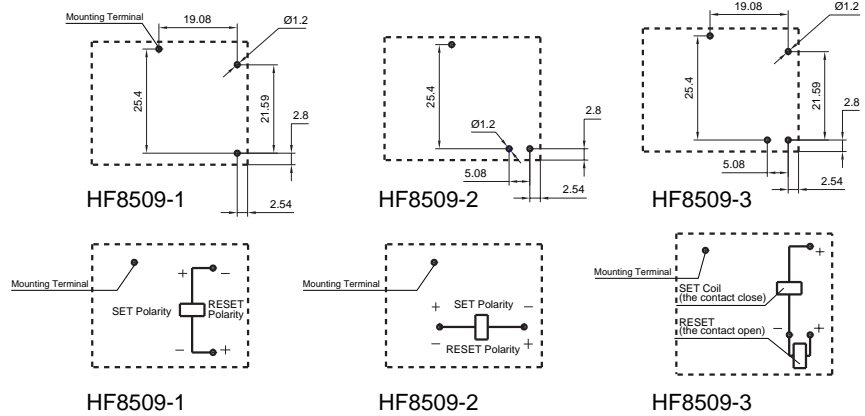
Structure Nil: Unsealed S: Sealed

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

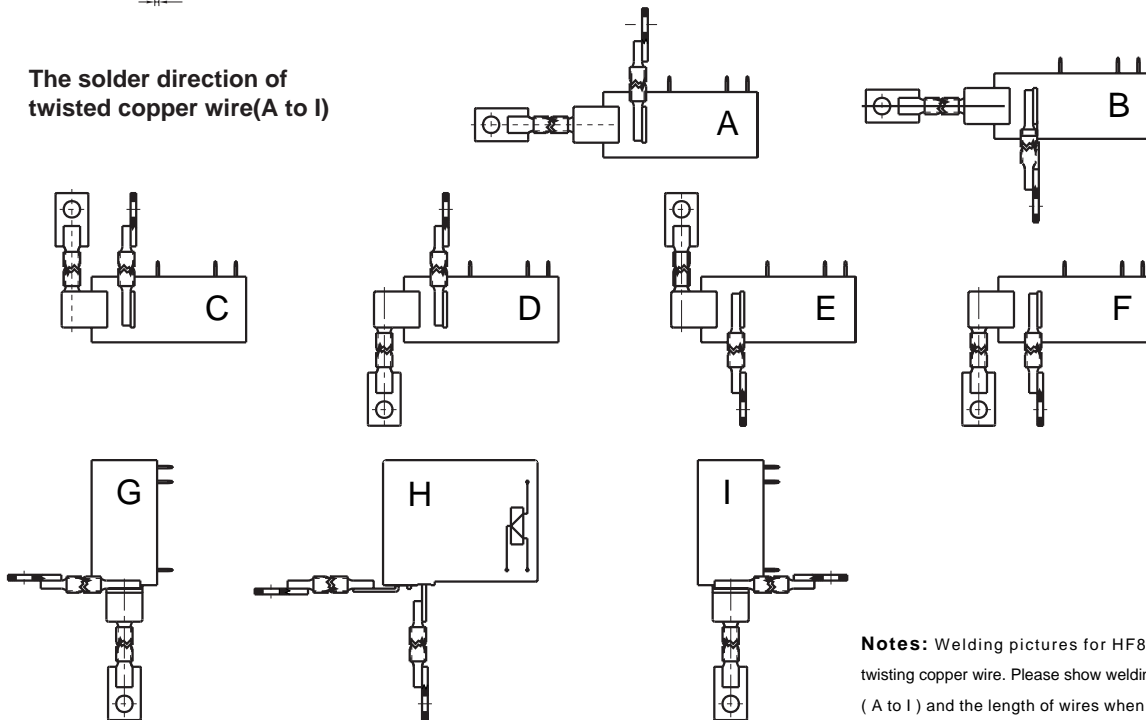
Outline Dimensions



PCB layout



The solder direction of twisted copper wire(A to I)



Notes: Welding pictures for HF8509 with twisting copper wire. Please show welding style (A to I) and the length of wires when ordering. Please mark the length of each wire from left to right if the length is different.