

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 5000 OPS	50A 250VAC 10000 OPS	40A 250VAC 100000 OPS
Max. switching voltage	250VAC		
Max. switching current	60A		
Max. switching power	15000VA		
Mechanical life	1 x 10 ⁵ 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.



ORDERING INFORMATION

HF8509-1 / 012

S

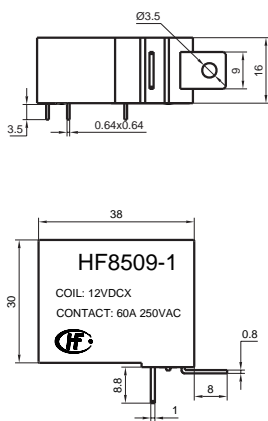
Type HF8509-1: Single Coil
HF8509-2: Single Coil HF8509-3: Double Coil

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

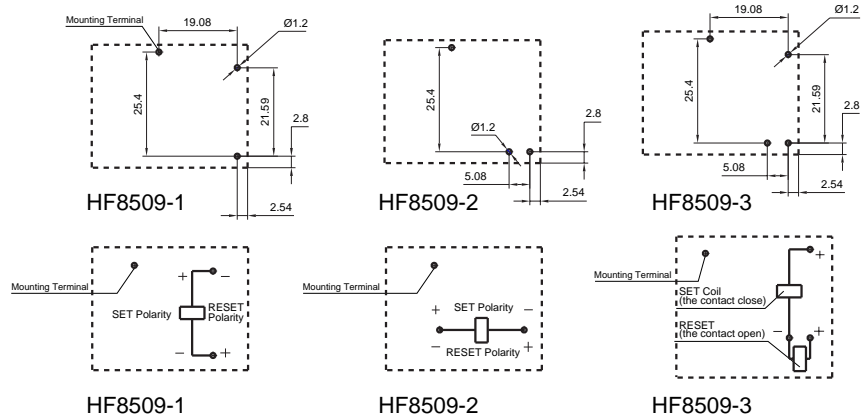
Structure Nil: Unsealed S: Sealed

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

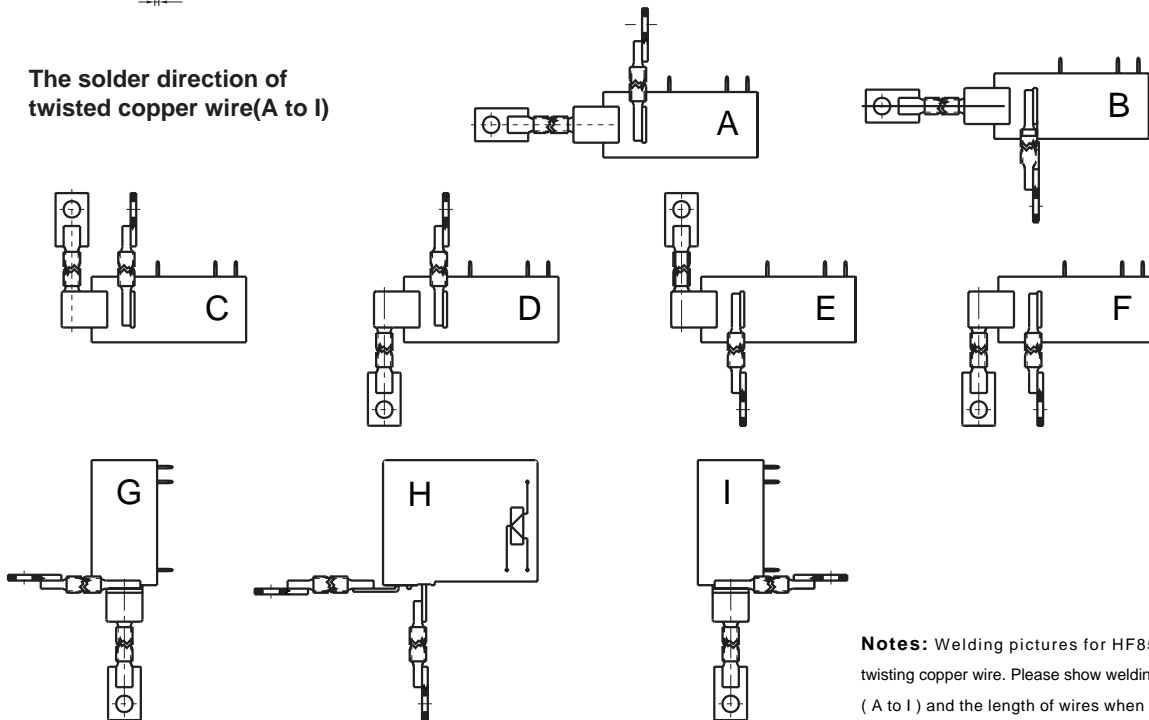
Outline Dimensions



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.