# HF62F

## MINIATURE HIGH POWER RELAY



COIL

Coil power

File No.:CQC09002028470

#### CONTACT DATA

Cantact arrangement	1A
Contact resistance <sup>1)</sup>	50mΩ max.(at 1A 6VDC)
Contact material	AgSnO <sub>2</sub>
Contact rating	16A 250VAC
(Res. load)	16A 30VDC
Max. switching voltage	277VAC / 30VDC
Max. switching current	20A
Max. switching power	4000VAC / 480W
Mechanical endurance	1 x 10 <sup>7</sup> ops
Electrical endurance	1 x 10⁵ops (16A 250VAC, Resistive load, Room temp., 1s on 1s off)

Notes: 1) The data shown above are initial values.

### **CHARACTERISTICS**

Insulation resistance		1000MΩ (at 500VDC			
Dielectric	Between coil & contacts		5000VAC 1mir		
strength	Between open contacts		1000VAC 1mir		
Operate ti	me (at rate	d. volt.)	20ms max.		
Release ti	me (at rate	d. volt.)	10ms max.		
Humidity		5% to 85% RH			
Ambient te	emperature		-40°C to 85°C		
Shock resistance		Functional	98m/s <sup>2</sup>		
		Destructive	980m/s <sup>2</sup>		
Vibration I	esistance		10Hz to 55Hz 1.5mm DA		
Terminatio	n		T type: PCB Standard: PCB & QC		
Unit weigh	nt		Approx.15g		
Construct	on		Flux proofed		

Notes: 1) The data shown above are initial values.

2) Please find coil temperature curve in the characteristic curves below.

3) UL insulation system: Class F, Class B.



COIL DATA				at 23°C
Nominal Voltage VDC	Pick-up Voltage VDC max. <sup>1)</sup>	Drop-out Voltage VDC min. <sup>1)</sup>	Max. Voltage VDC * <sup>2)</sup>	Coil Resistance Ω
5	4.0	0.5	6.50	47 x (1±10%)
6	4.8	0.6	7.80	68 x (1±10%)
9	7.2	0.9	11.7	155 x (1±10%)
12	9.6	1.2	15.6	270 x (1±10%)
18	14.4	1.8	23.4	620 x (1±10%)
24	19.2	2.4	31.2	1100 x (1±10%)
48	38.4	4.8	62.4	4400 x (1±10%)

**RoHS** compliant

Approx. 540mW

Notes: 1) The data shown above are initial values.

 Maximum voltage refers to the maximum voltage which relay coil could endure in a short period of time.

#### SAFETY APPROVAL RATINGS

	16A 250VAC
UL/CUL	16A 30VDC
	20A 125VAC
ΤÜV	16A 250VAC COSØ =1
	16A 30VDC COSØ =1

Notes: 1) All values unspecified are at room temperature. 2) Only typical loads are listed above. Other load specifications

can be available upon request.

ORDERING INFORMATION							
	HF62F	1	012	-1H	Т	F	(XXX)
Туре							
Coil voltage	5, 6, 9, 12, 18, 24, 48VDC						
Contact arrangement	<b>1H</b> : 1 Form A						
Termination	T: PCB Nil: PCB & QC						
Insulation Standard	F: Class F	Class F Nil: Class B					
Special code <sup>1)</sup> XXX: Customer special requirement Nil: Standard							

Notes: 1) The customer special requirement express as special code after evaluating by Hongfa.

## OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm



**Outline Dimensions** 

Standard



T type



(Bottom view)

Wiring Diagram









## OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm



PCB Layout

Remark: 1) In case of no tolerance shown in outline dimension: outline dimension ≤1mm, tolerance should be ±0.2mm; outline dimension >1mm and ≤5mm, tolerance should be ±0.3mm; outline dimension >5mm, tolerance should be ±0.4mm.

2) The tolerance without indicating for PCB layout is always  $\pm 0.1 \text{mm}.$ 

#### CHARACTERISTIC CURVES

#### MAXIMUM SWITCHING POWER





ENDURANCE CURVE



#### COIL TEMPERATURE RISE



#### Disclaimer

The specification is for reference only. See to "Terminology and Guidelines" for more information. Specifications subject to change without notice. We could not evaluate all the performance and all the parameters for every possible application. Thus the user should be in a right position to choose the suitable product for their own application. If there is any query, please contact Hongfa for the technical service. However, it is the user's responsibility to determine which product should be used only.

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