



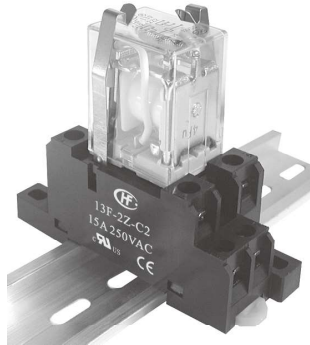
File No.:  
E253370(Socket)  
E133481(Relay)



File No.: R 50154518(Relay)



File No.:  
CQC09002030028(DC Relay)  
CQC09002030029(AC Relay)

**Features**

- 1C:15A; 2C:10A switching capability
- Screw type and rail mounting type are available
- With 1 or 2 sets of changeover contact options
- Products with finger protection are available
- UL insulation system:Class F (2C/2A)

**RoHS compliant****CONTACT DATA**

Contact arrangement	1A,1C,2A,2C
Contact rating (Res. load)	15A 250VAC/30VDC(1A/HZ)
	10A 250VAC/30VDC(2A/2C)
Max. switching voltage	250VAC/30VDC
Max. switching current	15A (1A,1C), 10A (2A/2C)

**CHARACTERISTICS**

Insulation resistance		500MΩ(500VAC)
Dielectric strength (RMS)	Between coil & contacts	1500VAC 1min
	Between open contacts	1000VAC 1min
	Between contact sets	1500VAC 1min
Operate time (at nomi. volt.)		25ms (DCtype max.)
Release time (at nomi. volt.)		25ms (DCtype max.)
Humidity (RH)		5% to 85%RH
Ambient temperature		-40℃ to 70℃

**COIL DATA**

23℃

Nominal Voltage VDC	Pick-up Voltage VDC max.	Drop-out Voltage VDC min	Max. Allowable Voltage VDC
5	4.0	0.50	5.5
6	4.8	0.60	6.6
9	7.2	0.90	9.9
12	9.6	1.20	13.2
21	16.8	2.10	23.1
24	19.2	2.40	26.4
30	24.0	3.00	33.0
36	28.8	3.60	39.6
48	38.4	4.80	52.8
60	48.0	6.00	66.0
110	88.0	11.0	121.0
125	100.0	12.5	137.5
220	176.0	22.0	242.0

Nominal Voltage VAC	Pick-up Voltage VAC max.	Drop-out Voltage VAC min	Max. Allowable Voltage VAC
6	4.80	1.80	6.6
12	9.60	3.60	13.2
24	19.2	7.20	26.4
36	28.8	10.8	39.6
48	38.4	14.4	52.8
120	96.0	36.0	132.0
220	176.0	72.0	242.0
240	176.0	72.0	264.0
277	221.6	83.1	304.7



HONGFA RELAY

ISO9001,IATF16949 ,ISO14001,ISO45001, IECQ QC 080000, ISO/IEC 27001 CERTIFIED

2024 Rev. 1.00

## ORDERING INFORMATION

HF13F-AS / <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> - <input type="checkbox"/> <input type="checkbox"/> 1 <input type="checkbox"/> <input type="checkbox"/> - C <input type="checkbox"/> - H <input type="checkbox"/> (XXX)	
Relay module	HF13F: type without button AS: module
Coil voltage	A: AC (50HZ or 60HZ) Nil: DC
Relay coil voltage	DC: 005~220VDC AC: 006~277VAC
Contact arrangement	1H: 1 Form A      1Z: 1 Form C 2H: 2 Form A      2Z: 2 Form C
Installation method	1: Socket mounting
Contact material	3: AgNi      T: AgSnO <sub>2</sub> 3G: AgNi+Au plated      TG: AgSnO <sub>2</sub> +Au plated
Luminous diode	D: with LED      Nil: without LED J: freewheeling diode DJ: with LED light , freewheeling diode
Matching socket	C1, C2 for 1Z C1, C2 for 2Z
Matching retaining clip	18FF-H2 for C2,C3,C10
Special code	XXX: The customer special requirement      Nil: Standard type

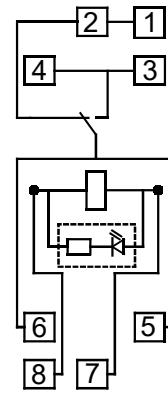
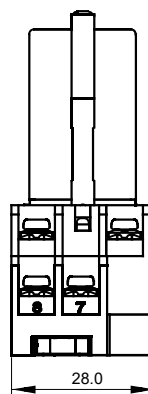
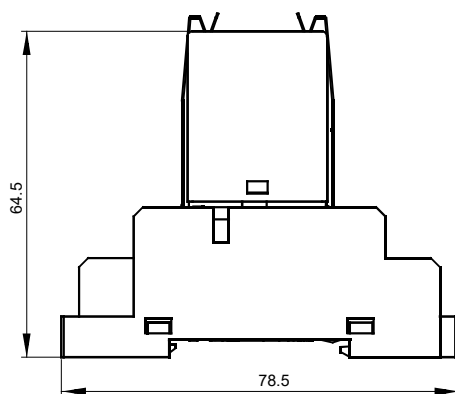
## OUTLINE DIMENSIONS, WIRING DIAGRAM

Unit: mm

Outline Dimensions

Wiring Diagram(Bottom view)

HF13F-AS/☐☐☐☐-1☐1☐☐-C1-H2



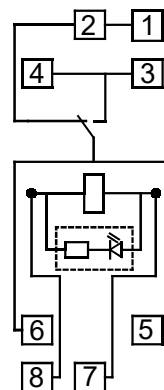
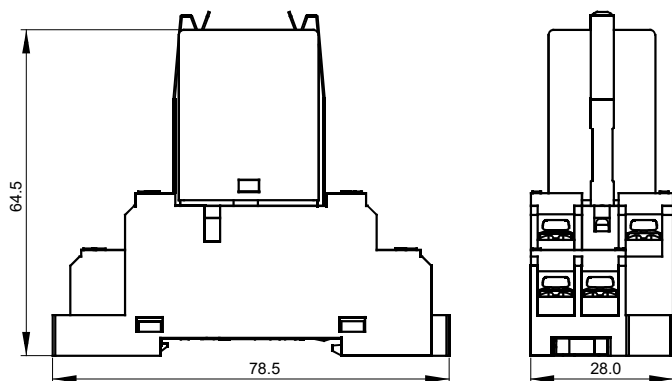
# OUTLINE DIMENSIONS, WIRING DIAGRAM

Unit: mm

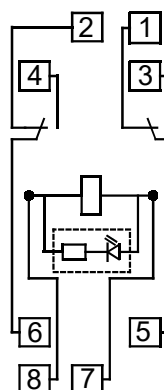
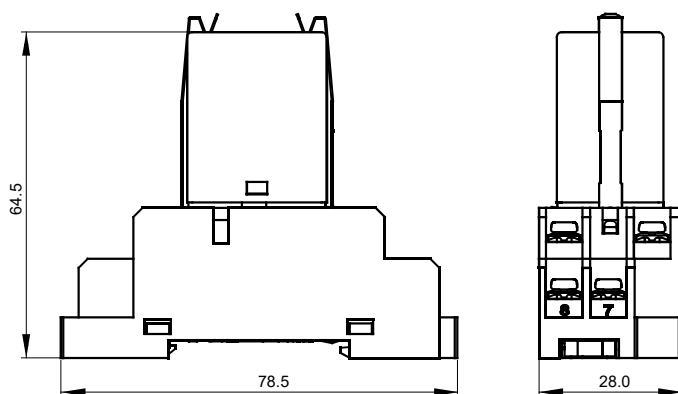
Outline Dimensions

Wiring Diagram(Bottom view)

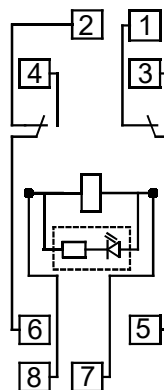
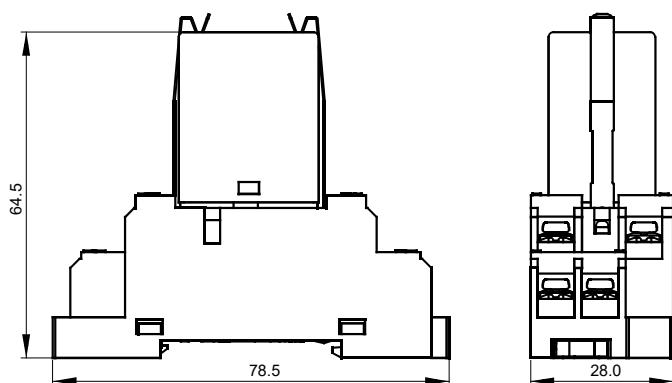
HF13F-AS/□□□□-1□1□□-C2-H2



HF13F-AS/□□□□-2□1□□-C1-H2

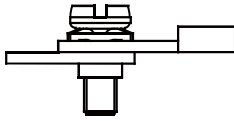


HF13F-AS/□□□□-2□1□□-C2-H2



## COMPONENT ORDERING INFORMATION

Gasket screw Relay



P/N	module type	relay type	socket type	retainer type
——	HF13F-AS/A012-1Z13-C2-H2	HF13F/A012-1Z13	13F-2Z-C2	18FF-H2
——	HF13F-AS/A024-1Z13-C2-H2	HF13F/A024-1Z13		
——	HF13F-AS/A060-1Z13-C2-H2	HF13F/A060-1Z13		
——	HF13F-AS/A220-1Z13-C2-H2	HF13F/A220-1Z13		
——	HF13F-AS/A012-2Z13-C2-H2	HF13F/A012-2Z13		
——	HF13F-AS/A024-2Z13-C2-H2	HF13F/A024-2Z13		
——	HF13F-AS/A060-2Z13-C2-H2	HF13F/A060-2Z13		
——	HF13F-AS/A220-2Z13-C2-H2	HF13F/A220-2Z13		
——	HF13F-AS/012-1Z13-C2-H2	HF13F/012-1Z13		
——	HF13F-AS/024-1Z13-C2-H2	HF13F/024-1Z13		
——	HF13F-AS/060-1Z13-C2-H2	HF13F/060-1Z13		
——	HF13F-AS/220-1Z13-C2-H2	HF13F/220-1Z13		
——	HF13F-AS/012-2Z13-C2-H2	HF13F/012-2Z13		
——	HF13F-AS/024-2Z13-C2-H2	HF13F/024-2Z13		
——	HF13F-AS/060-2Z13-C2-H2	HF13F/060-2Z13		
——	HF13F-AS/220-2Z13-C2-H2	HF13F/220-2Z13		
——	HF13F-AS/A012-1Z13-C1-H2	HF13F/A012-1Z13	13F-2Z-C1	
——	HF13F-AS/A024-1Z13-C1-H2	HF13F/A024-1Z13		
——	HF13F-AS/A060-1Z13-C1-H2	HF13F/A060-1Z13		
——	HF13F-AS/A220-1Z13-C1-H2	HF13F/A220-1Z13		
——	HF13F-AS/A012-2Z13-C1-H2	HF13F/A012-2Z13		
——	HF13F-AS/A024-2Z13-C1-H2	HF13F/A024-2Z13		
——	HF13F-AS/A060-2Z13-C1-H2	HF13F/A060-2Z13		
——	HF13F-AS/A220-2Z13-C1-H2	HF13F/A220-2Z13		
——	HF13F-AS/012-1Z13-C1-H2	HF13F/012-1Z13		
——	HF13F-AS/024-1Z13-C1-H2	HF13F/024-1Z13		
——	HF13F-AS/060-1Z13-C1-H2	HF13F/060-1Z13		
——	HF13F-AS/220-1Z13-C1-H2	HF13F/220-1Z13		
——	HF13F-AS/012-2Z13-C1-H2	HF13F/012-2Z13		
——	HF13F-AS/024-2Z13-C1-H2	HF13F/024-2Z13		
——	HF13F-AS/060-2Z13-C1-H2	HF13F/060-2Z13		
——	HF13F-AS/220-2Z13-C1-H2	HF13F/220-2Z13		

Note: Please contact us for any information.

## PRECAUTIONS FOR USE

For your personal safety and the normal operation of the equipment, as well as to prevent fire, please note the following issues :

- 1、The rated current of the socket should be no less than the rated current of the relay.
- 2、Sockets are required to be firmly fixed to prevent the wiring from loosening and affecting the quality of wiring.
- 3、Be sure to disconnect power to the outlet before installation, disassembly, wiring, maintenance and inspection.
- 4、Prevent foreign objects such as wire shavings from falling inside this product when wiring.
- 5、Be sure to install the relay in place, and use accessories such as retainer if necessary to improve contact reliability.  
Do not use with incomplete connections.
- 6、Be sure to observe the relay ratings and do not overload the relay.
- 7、Before selecting a relay, make sure that the drive voltage matches the relay excitation voltage.
- 8、The main external dimension, when the external dimension > 50mm, the tolerance is  $\pm 1\text{mm}$ ; When the  $20\text{mm} < \text{dimensions}$  are between  $50\text{mm} \leq$ , the tolerance is  $\pm 0.5\text{mm}$ ; When the overall dimension of  $5\text{mm} < \text{between} \leq 20\text{mm}$ , the tolerance is  $\pm 0.4\text{mm}$ , and when the external dimension is  $\leq 5\text{mm}$ , the tolerance is  $\pm 0.3\text{mm}$ ;
- 9、For rail installation, it is recommended to use DIN standard  $35 \times 7.5 \times 1$ ,  $35 \times 15 \times 1$  standard rails.

### 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.

© Xiamen Hongfa Electroacoustic Co., Ltd. All rights of Hongfa are reserved.