HF25F(JQC-25F)

SUBMINIATURE HIGH POWER RELAY



File No.:E134517



File No.:R50055985



File No.:CQC06001016263



Features

- Small and for microwave oven
- 20A switching capability
- 1.5HP 250VAC approved by UL standard
- 5kV impulse withstand voltage (between coil and contacts)
- PCB & QC layouts
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (22.8 x 12.3 x 24.4) mm

CON	ITACT	DATA
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Contact arrangement	1A
Contact resistance	100mΩ (at 1A 6VDC)
Contact material	AgSnO ₂
	1.5HP 250VAC
Contact rating	20A 250VAC
Max. switching voltage	30VDC / 250VAC
Max. switching current	20A
Max. switching power	5000VA / 480W
Mechanical endurance	2 x 10 ⁶ ops
Electrical endurance	1 x 10 ⁵ ops

Insulation resistance		е	1000MΩ (at 500VDC)	
Dielectric	Between coil & contacts		5000VAC 1min	
strength	Between open contacts		1000VAC 1min	
Operate time (at nomi. volt.)		mi. volt.)	15ms max.	
Release time (at nomi. volt.)		omi. volt.)	5ms max.	
Humidity		.17	35% to 85% RH	
Shock resistance		Functional	100m/s ² (10g)	
		Destructive	1000m/s ² (100g)	
Ambient te	mperatu	re	-40°C to 85°C	
Vibration resistance)	10Hz to 55Hz 1.5mm DA	
Termination		PCB & QC		
Unit weight		把	Approx. 16.5g	
Construction		THE WW	Wash tight, Flux proofed	

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

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

COIL	
Coil power	500mW

COIL DATA			at 23°C	
Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Allowable Voltage VDC	Coil Resistance Ω
5	3.75	0.25	6.50	50 x (1±10%)
6	4.50	0.30	7.80	72 x (1±10%)
9	6.75	0.45	11.7	162 x (1±10%)
12	9.00	0.60	15.6	288 x (1±10%)
18	13.5	0.90	23.4	648 x (1±10%)
24	18.0	1.20	31.2	1152 x (1±10%)

Notes: When requiring pick-up voltage <75% of nominal voltage, special order allowed.

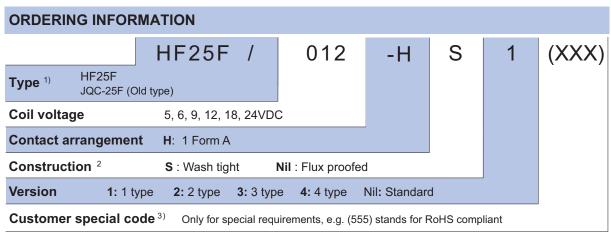
SAFETY APPROVAL RATINGS

UL&CUR	20A 250VAC
	16A 30VDC
	1.5HP 250VAC
TÜV	20A 250VAC COSØ =1
	16A 30VDC

Notes: Only some typical ratings are listed above. If more details are required, please contact us.



HONGFA RELAY



Notes: 1) We have now gradually updated our ordering information. We suggest new type should be selected. If necessary, old type can be kept for some period for the old customers.

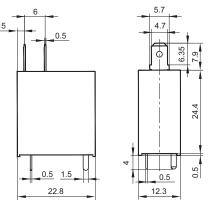
- 2) Under the ambience with dangerous gas like H₂S, SO₂ or NO₂, wash tight type is recommended; please test the relay in real applications. If the ambience allows, flux proofed is preferentially recommended.
- 3) HF25F is an environmental friendly product. Please mark a special code (555) when ordering.

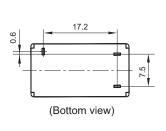
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

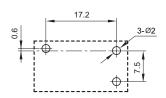
Standard:

Outline Dimensions

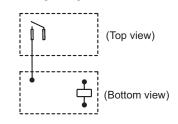




PCB Layout (Bottom view)

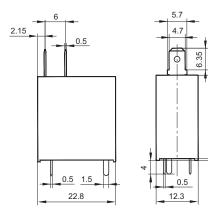


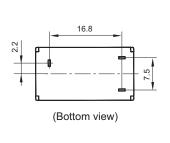
Wiring Diagram



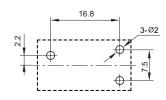
1 type:

Outline Dimensions

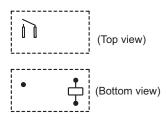




PCB Layout (Bottom view)



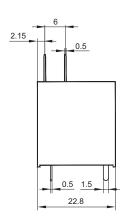
Wiring Diagram



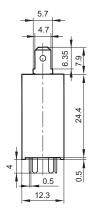
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

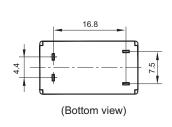
Unit: mm

2 type:

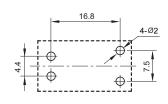


Outline Dimensions

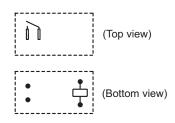




PCB Layout (Bottom view)

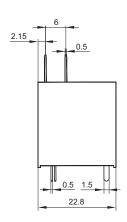


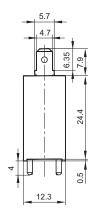
Wiring Diagram

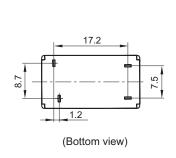


3 type:

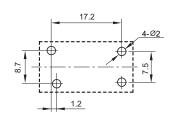
Outline Dimensions



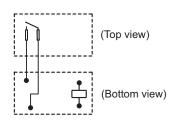




PCB Layout (Bottom view)



Wiring Diagram



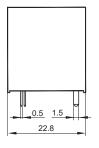
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

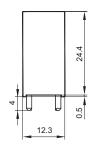
Unit: mm

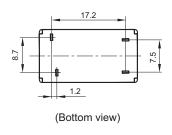
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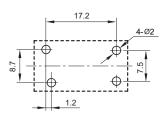
Outline Dimensions

PCB Layout (Bottom view)

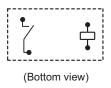








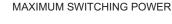
Wiring Diagram

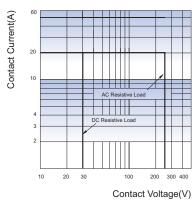


Remark: 1) In case of no tolerance shown in outline dimension: outline dimension ≤1mm, tolerance should be ±0.2mm; outline dimension >1mm and \leq 5mm, tolerance should be \pm 0.3mm; outline dimension >5mm, tolerance should be \pm 0.4mm.

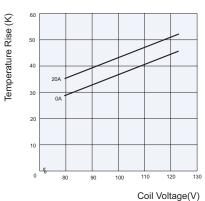
2) The tolerance without indicating for PCB layout is always ± 0.1 mm.

CHARACTERISTIC CURVES









Disclaimer

This datasheet is for the customers' reference. All the specifications are 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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