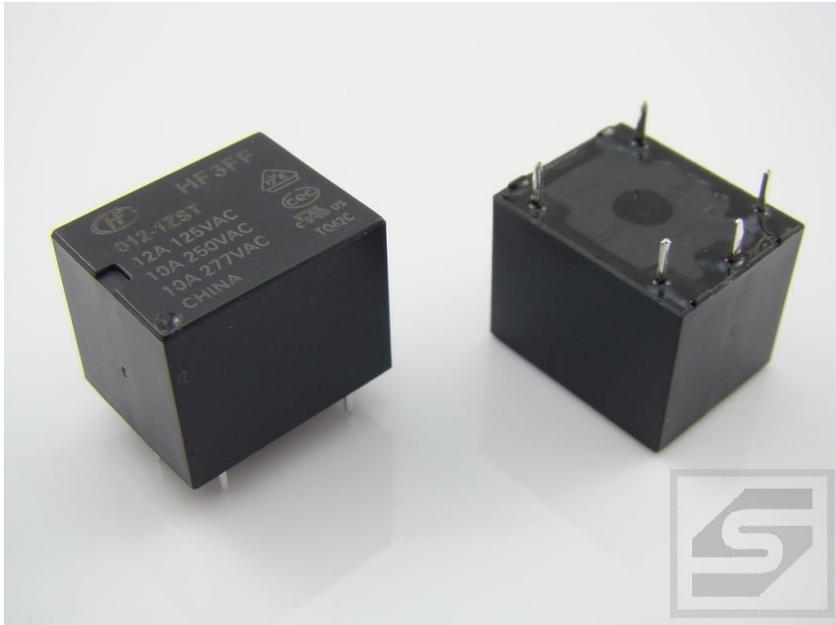




Przełącznik JQC/HF3FF-012-1ZST HONGFA 1 st.przełączny 10A



Dane techniczne:

Nazwa: JQC/HF3FF-012-1ZST
Napięcie sterujące: 12V
Rodzaj napięcia sterującego: DC
Konfiguracja styków: 1 styk przełączny
Znamionowy prąd styków AC: 10A
Znamionowe napięcie styków AC: 277V AC
Znamionowy prąd styków DC: 10A
Znamionowe napięcie styków DC: 28V DC
Sposób montażu: do druku (PCB)
Producent: Hongfa
Certyfikaty: RoHS
Materiał styku: AgSnO₂
Rezystancja cewki: 400Ohm
Znamionowa moc cewki DC: 360mW
Producent: HONGFA

www.podzespoly-elektroniczne.pl

HF3FF

SUBMINIATURE HIGH POWER RELAY



File No.:E134517



File No.:R50034671



File No.:CQC02001001953



Features

- 15A switching capability
- Extremely low cost
- 1 Form A and 1 Form C configurations
- Subminiature, standard PCB layout
- Wash tight and flux proofed types available
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (19.0 x 15.2 x 15.5) mm

CONTACT DATA

Contact arrangement	1A	1C
Contact resistance	100mΩ (at 1A 6VDC)	
Contact material	AgSnO ₂ , AgCdO	
Contact rating (Res. load)	10A 277VAC/28VDC	
Max. switching voltage	277VAC / 30VDC	
Max. switching current	15A	10A
Max. switching power	2770VA / 210W	
Mechanical endurance	1 x 10 ⁷ OPS	
Electrical endurance	1 x 10 ⁵ OPS	

CHARACTERISTICS

Insulation resistance	100MΩ (at 500VDC)	
Dielectric strength	Between coil & contacts	1500VAC 1min
	Between open contacts	750VAC 1min
Operate time (at nomi. volt.)	10ms max.	
Release time (at nomi. volt.)	5ms max.	
Shock resistance	Functional	98m/s ²
	Destructive	980m/s ²
Vibration resistance	10Hz to 55Hz 1.5mm DA	
Humidity	35% to 85% RH	
Ambient temperature	-40°C to 85°C	
Termination	PCB	
Unit weight	Approx. 10g	
Construction	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 5 to 24VDC: 360mW; 48VDC: 510mW

COIL DATA

at 23°C

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Allowable Voltage VDC	Coil Resistance Ω
5	3.80	0.5	6.5	70 x (1±10%)
6	4.50	0.6	7.8	100 x (1±10%)
9	6.80	0.9	11.7	225 x (1±10%)
12	9.00	1.2	15.6	400 x (1±10%)
18	13.5	1.8	23.4	900 x (1±10%)
24	18.0	2.4	31.2	1600 x (1±10%)
48	36.0	4.8	62.4	4500 x (1±10%)
48 ¹⁾	36.0	4.8	62.4	6400 x (1±10%)

Notes: 1) When order this 48VDC type, Please mark a special code (068).

SAFETY APPROVAL RATINGS

UL&CUL	1 Form A	10A 277VAC / 28VDC TV-5 120VAC 15A 125VAC 120VAC 125VAC 1/2HP,125VAC
	1 Form C	10A 277 VAC / 28VDC 10A 120VAC 1/2 HP 125/250VAC
TÜV	1 Form A	10A 277VAC 12A 125VAC COSØ=1 5A 250VAC COSØ=1
	1 Form C	8A 250VAC 12A 125VAC COSØ=1 5A 250VAC COSØ=1

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



HONGFA RELAY

ISO9001, ISO/TS16949, ISO14001, OHSAS18001, IECQ QC 080000 CERTIFIED

2008 Rev. 1.00

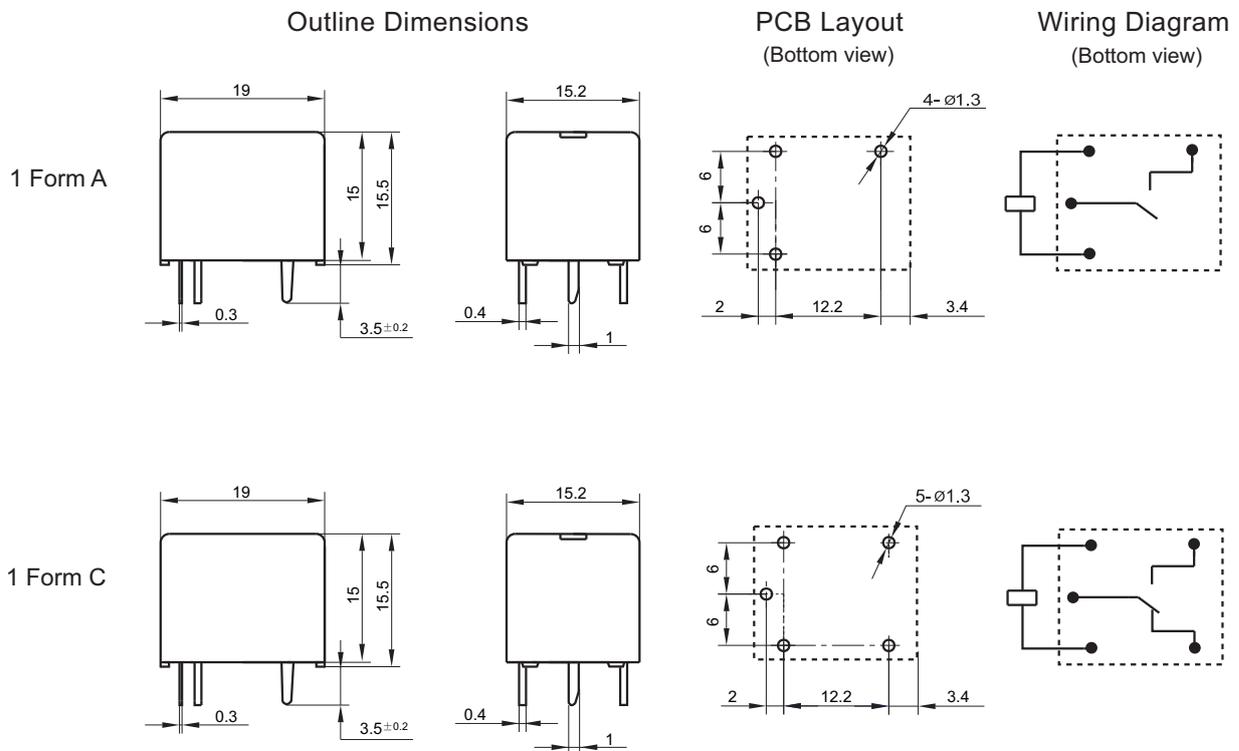
ORDERING INFORMATION

HF3FF / 012 -1H S T F (XXX)	
Type	
Coil voltage	5, 6, 9, 12, 18, 24, 48VDC
Contact arrangement	1H:1 Form A 1Z:1 Form C
Construction ²⁾	S: Wash tight Nil: Flux proofed
Contact material	T: AgSnO ₂ Nil: AgCdO
Insulation standard	F: Class F Nil: Class B
Customer special code	

Notes: 1) 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.

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PCB BOARD LAYOUT

Unit: mm

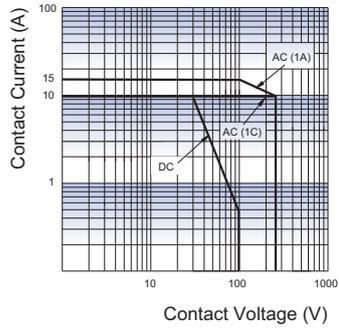


Remark: 1) In case of no tolerance shown in outline dimension: outline dimension $\leq 1\text{mm}$, tolerance should be $\pm 0.2\text{mm}$; outline dimension $> 1\text{mm}$ and $\leq 5\text{mm}$, tolerance should be $\pm 0.3\text{mm}$; outline dimension $> 5\text{mm}$, tolerance should be $\pm 0.4\text{mm}$.

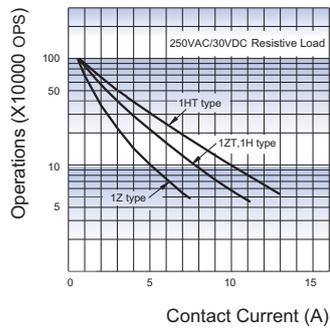
2) The tolerance without indicating for PCB layout is always $\pm 0.1\text{mm}$.

CHARACTERISTIC CURVES

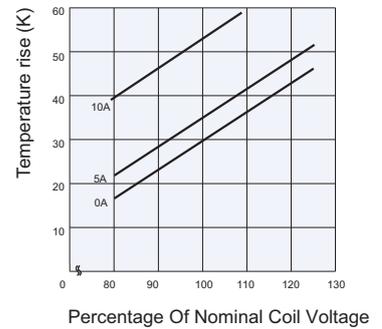
MAXIMUM SWITCHING POWER



ENDURANCE CURVE



COIL TEMPERATURE RISE



Disclaimer

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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