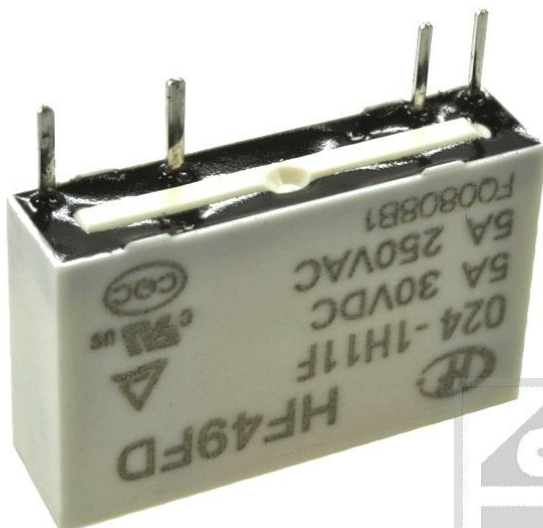




Przełącznik HF49FD-024-1H11TF HONGFA 5A/24V DC; 1 styk zwierny;



Dane techniczne:

Nazwa: HF49FD-024-1H11TF

Producent: HONGFA

Napięcie sterujące: 24V

Rodzaj napięcia sterującego: DC

Konfiguracja styków: 1 styk zwierny

Znamionowy prąd styków AC: 5A

Znamionowe napięcie styków AC: 250V AC

Znamionowy prąd styków DC: 5A

Znamionowe napięcie styków DC: 30V DC

Obciążalność prądowa styku: 5A

Sposób montażu: do druku (PCB)

Certyfikaty: RoHS

Materiał styku: AgSnO₂

Rezystancja cewki: 3200Ohm

Znamionowa moc cewki DC: 180mW

Wymiary - 20 x 5 x 15 mm

HF49FD

MINIATURE POWER RELAY



File No.:E133481



File No.:R50035304



File No.:CQC02001001937



Features

- 5A switching capability
- 3kV dielectric strength (between coil and contacts)
- Slim size (width 5mm, height 12.5mm)
- High sensitive: Min. 120mW
- HF49FD terminals compatible with HFS8 (Output module) and HFS20 SSR
- Sockets available
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (20.0 x 5.0 x 12.5) mm

CONTACT DATA

Contact arrangement	1A
Contact Resistance	100mΩ (at 1A 6VDC)
Contact material	AgSnO ₂ , AgNi
Contact rating (Res. load)	5A 250VAC/30VDC
Max. switching voltage	250VAC /30VDC
Max. switching current	5A
Max. switching power	1250VA / 150W
Mechanical endurance	2 x 10 ⁷ OPS
Electrical endurance	1 x 10 ⁵ OPS (See approval reports for more details)

COIL

Coil power	120 to 180mW
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COIL DATA

at 23°C

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Allowable Voltage VDC 85°C	Coil Resistance Ω
5	3.50	0.25	6.0	208 x (1±10%)
6	4.20	0.30	7.2	300 x (1±10%)
9	6.30	0.45	10.8	675 x (1±10%)
12	8.40	0.60	14.4	1200 x (1±10%)
18	12.6	0.90	21.6	2700 x (1±15%)
24	16.8	1.20	28.8	3200 x (1±15%)

Notes: 1) All above data are tested when the relays terminals are downward position. Other positions of the terminals, the pick-up and drop-out voltages will have ± 5% tolerance. For example, when the relay terminals are transverse position, the max. pick-up voltage change is 75% of nominal voltage.
2) The max. allowable voltage in the COIL DATA is coil overdrive voltage, it is the instantaneous max. voltage which the relay coil could endure in a very short time.

CHARACTERISTICS

Insulation resistance		1000MΩ (at 500VDC)
Dielectric strength	Between coil & contacts	3000VAC 1min
	Between open contacts	1000VAC 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		5% to 85% RH
Ambient temperature		-40°C to 85°C
Termination		PCB
Unit weight		Approx. 3g
Construction		Wash tight

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

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

SAFETY APPROVAL RATINGS

UL&CUL	5A 30VDC L/R =0ms
	5A 250VAC COSØ=1
TÜV	5A 250VAC COSØ=1
	5A 30VDC L/R=0ms

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

2009 Rev. 1.01

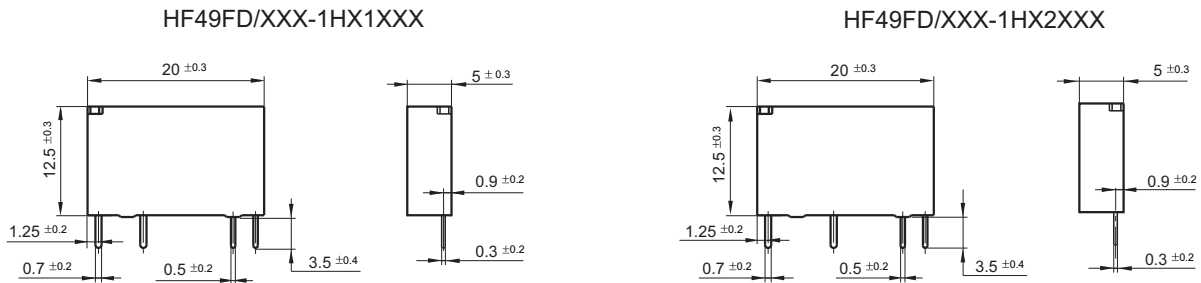
ORDERING INFORMATION

Type	HF49FD / 012 -1H 1 2 G T F (XXX)						
Coil voltage	5, 6, 9, 12, 18, 24VDC						
Contact arrangement	1H: 1 Form A						
Contact version	1: Single contact 2: Bifurcated contact						
Space between terminals	(See the following) 1: 5.08mm 2: 7.62mm						
Contact plating	G: Gold plated Nil: No gold plated (Only for single contact)						
Contact material	T: AgSnO ₂ Nil: AgNi						
Insulation standard	F: Class F B: Class B Nil: Class A						
Customer special code							

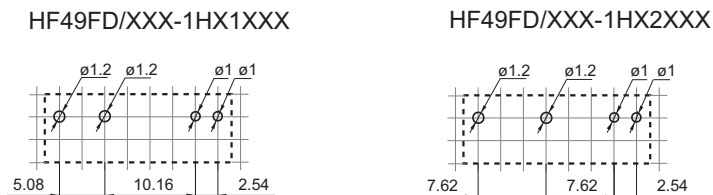
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

Outline Dimensions



PCB Layout (Bottom view)



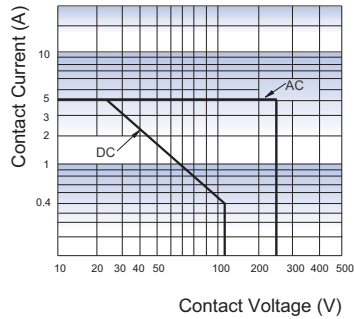
Wiring Diagram (Bottom view)



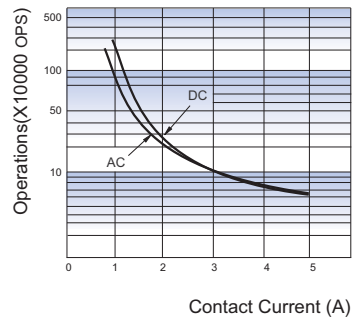
- Remark: 1) In case of no tolerance shown in outline dimension: outline dimension ≤ 1 mm, tolerance should be ± 0.2 mm; outline dimension > 1 mm and ≤ 5 mm, tolerance should be ± 0.3 mm; outline dimension > 5 mm, tolerance should be ± 0.4 mm.
 2) The tolerance without indicating for PCB layout is always ± 0.1 mm.
 3) The width of the gridding is 2.54mm.

CHARACTERISTIC CURVES

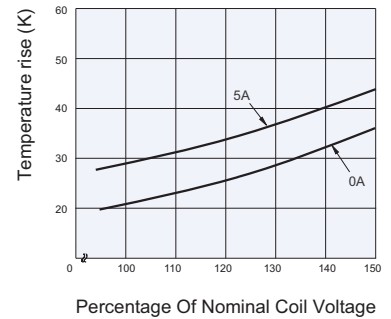
MAXIMUM SWITCHING POWER



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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