

# HF8

# SUBMINIATURE INTERMEDIATE POWER RELAY



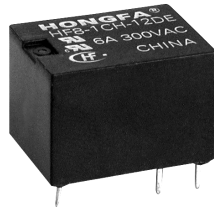
File No.:E134517



File No.:0042025



File No.:CQC02001001942



## Features

- \* 6A switching capabilities
- \* SPDT configurations
- \* Subminiature, High sensitive, PCB layout
- \* Sealed types for automatic wave soldering

## CONTACT DATA

Contact Arrangement	1C
Initial Contact Resistance Max.	100mΩ (1A 24VDC)
Contact Material	AgNi, AgCdO
Contact Rating (Res. Load)	6A 120VAC 6A 24VDC
Max. switching voltage	300VAC/28VDC
Max. switching current	6A
Max. switching power	720VA /144W
UL/CUR rating	6A 120VAC/24VDC
Mechanical life	1 x 10 <sup>7</sup> OPS
Electrical life	1 x 10 <sup>5</sup> OPS

## COIL

Coil power	0.45W
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## COIL DATA

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. allowable Voltage VDC(at 20°C)	Coil Resistance Ω
3	2.25	0.15	3.90	20 ± 10%
5	3.75	0.25	6.50	56 ± 10%
6	4.50	0.30	7.80	80 ± 10%
9	6.75	0.45	11.7	180 ± 10%
12	9.00	0.60	15.6	320 ± 10%
18	13.5	0.90	23.4	720 ± 10%
24	18.0	1.20	31.2	1280 ± 10%
48	36.0	2.40	62.4	3800 ± 10%

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

## CHARACTERISTICS

Initial Insulation Resistance	100MΩ 500VDC	
Dielectric Strength	Between coil and Contacts	2000VAC 1min.
	Between open contacts	750VAC 1min.
Operate time (at nomi. Volt.)	6ms	
Release time (at nomi. Volt.)	3ms	
Humidity	98%RH, +40°C	
Ambient temperature	Class B	-55°C to +90°C
	Class F	-55°C to +115°C
Shock Resistance	Functional	100 m/s <sup>2</sup>
	Destructive	--
Vibration Resistance	1.5mm, 10 to 55Hz	
Termination	PCB	
Unit weight	Approx. 9g	
Construction	Sealed and Unsealed	

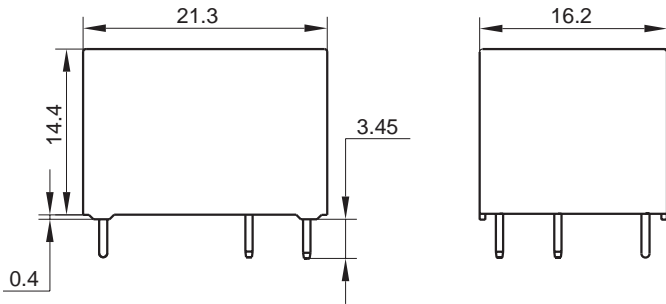


## ORDERING INFORMATION

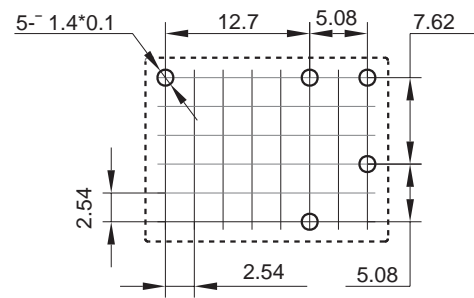
Type	HF8 /	1C	H	12	D	E	F
Contact arrangement:	1C: 1 Form C						
Contact Capacity:	H: Medium Capacity						
Coil voltage	3, 5, 6, 9, 12, 18, 24, 48VDC						
Coil Source	D: DC						
Structure	Nil: Unsealed E: Sealed						
Insulation Standard	F: Class F Nil: Class B						

## OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

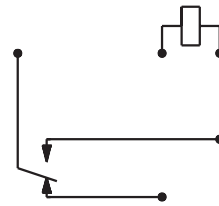
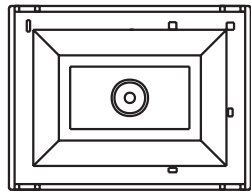
Outline Dimensions



PCB layout

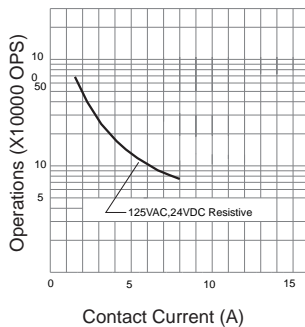


Wiring Diagram

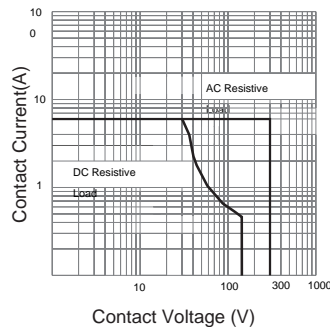


## CHARACTERISTICS CURVE

LIFE CURVE



MAXIMUM SWITCHING POWER



COIL TEMPERATURE RISE

