# HM4100F/4101F (HFD5/HFD5A) SUBMINIATURE SIGNAL RELAY







### Features

- Extremely low cost
- 2A switching capability
- 1 Form C configuration
- Standard PCB layout
- Sealed IP67 & flux proof types available
- Environmental friendly product available (RoHS compliant)
- Outline Dimensions: 15.7 x 11.0 x 12.0 mm

# V D E

File No.:40000155

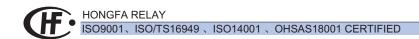
CONTACT DATA	
Concat arrangement	1C
Initial contact resistance Max.	100mΩ (at 1A 24VDC)
Contact material	AgNi
Contact rating (Res. load)	H: 1A 120VAC/30VDC N,B: 1A 240VAC/30VDC 2A 120VAC
Max. switching voltage	300VAC / 150VDC
Max. switching current	2A
Max. switching power	240VA / 30W
Mechanical life	1 x 10 <sup>7</sup> ops
Electrical life	1 x 10⁵ops

CHARACTERISTICS				
Initial insulation resistance		100MΩ (at 500VDC)		
Dielectric Between		en coil & contacts	1000	VAC 1min.
strength	Between open contacts		500VAC 1min.	
Operate time (at nomi. volt.)		Max. 10ms		
Release time (at nomi. volt.)		Max. 5ms		
Temperature rise (at nomi. volt.)		H: 50°C	N,B: 60°C	
Shock resistance		Functional	98m/s² (10	
		Destructive	980ı	m/s² (100g)
Vibration resistance		10 to 55Hz 1.5mm		
Humidity		35 to 85% RH		
Ambient temperature		-25°C to +70°C		
Termination		PCB (DIP)		
Unit weight		5g		
Construction		Sealed IP67, Flux proof		

COIL		
Coil power	B: 450mW; N: 360mW;	H:200mW

COIL DATA						
Nominal Voltage	Pick-up Voltage		Allowable	Coil Resistance (Ω±10%)		
(VDC)	(VDC)	(VDC)	Voltage (VDC) 25°C	Н	N	В
3	2.3	0.3	3.9	45	25	20
5	3.8	0.5	6.5	120	70	56
6	4.5	0.6	7.8	180	100	80
9	6.8	0.9	11.7	400	220	180
12	9.0	1.2	15.6	700	400	320
24	18.0	2.4	31.2	2800	1600	1280

SAFETY APPROVAL RATINGS		
UL&CUR	2A 125VAC	
	1A 240VAC	
	1A 30VDC	
<b>VDE</b> (HM4101F)	1A 30VDC	
	1A 250VAC COSØ =1	
	2A 125VAC COSØ =1	



# ORDERING INFORMATION

HM4100F / HM4101F /

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Type

**Coil voltage** 3, 5, 6, 9, 12, 24 VDC

Coil power B: 450mW N: 360mW

Construction S: Sealed Nil: Flux proof

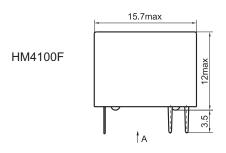
Customer special code (Only for special requirements, e.g. 551 stands for lead-free, 555 stands for RoHS compliant)

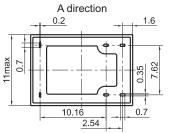
H: 200mW

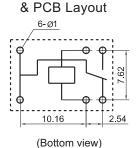
## **OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT**

Unit: mm

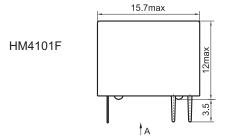
## Outline Dimensions

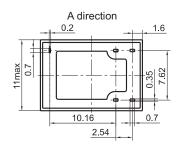


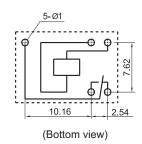




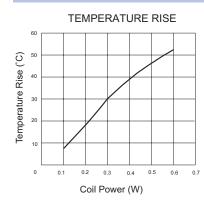
Wiring Diagram

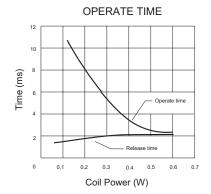


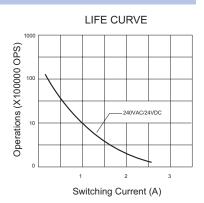




### **CHARACTERISTIC CURVES**







#### 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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