

**HONGMEI RELAY**



**SUBMINIATURE POWER RELAYS**

Single-Pole , 1A or 2Amp , PC Board

**HM4100F**  
**HM4101F**



- UL / CUR File No.E170653
- Extremely low cost
- SPDT configuration
- Standard PC layout
- Sealed version available

■ **CONTACT DATA**

Type	HM4100F	HM4101F
Initial Contact Resistance Max. (at 1A 24VDC)	100m Ω	
Contact Material	Silver Alloy	
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	
UL/CUR rating	H: 1A 125VAC/30VDC N & B: 1A 240VAC/30VDC 2A 125VAC	
Expected operations	Mechanical	1X10 <sup>7</sup> OPS
Life min.	Electrical	1X10 <sup>5</sup> OPS

■ **COIL**

Nominal coil power	H:200 mW;N: 360mW; B: 450 mW
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■ **TABLE**

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. allowable Voltage ( at 20 °C )	Coil Resistance Tolerance: ± 10%		
				H	N	B
3	2.3	0.3	3.6	45	25	20
5	3.8	0.5	6.0	120	70	56
6	4.5	0.6	7.2	180	100	80
9	6.8	0.9	10.8	400	220	180
12	9.0	1.2	14.4	700	400	320
24	18.0	2.4	28.8	2800	1600	1280

■ **SPECIFICATION**

Initial Insulation Resistance	1,000 MΩ 500VDC
Dielectric Strength	
Between coil and Contacts	500Vrms 1 minute
Between open contacts	500Vrms 1 minute
Surge Voltage between Contacts and coil	No
Operate time (at nomi. Vot.)	10ms
Release time (at nomi. Vot.)	5ms
Temperature rise (at nominal voltage)	50°C
Shock Resistance	Functional 98m/s <sup>2</sup> (10g) Destructive 980m/s <sup>2</sup> (100g)
Vibration Resistance	1.5mm 10 to 55Hz
Humidity	35% to 85% RH
Ambient temperature	-25°C to 70°C
Termination	PC
Unit weight	5g
Construction	Sealed & Unsealed

■ORDERING INFORMATION

HM4100F (HM4101F)	/	012	N	S
		Coil voltage	Nominal Coil Power	Structure
		3TO24VDC	H:200 mW N:360 mW B:450 mW	Nil: Unsealed S: Sealed

■OUTLINE DIMENSIONS , WIRING DIAGRAM AND PC BOARD LAYOUT

HM4100F  
Outline Dimensions

HM4101F  
Outline Dimensions

HM4100F  
Wiring Diagram & PCB Layout

HM4101F  
Wiring Diagram & PCB Layout

■USEFUL CURVES

