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 avaible

■CONTACT DATA

Type		HM4100F	HM4101F
Initial Contact Resistance Max. (at 1A 24VDC)		100mΩ	
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 Life min. operations	Mechanical	$1X10^7$ OPS	
	Electrical	$1X10^5$ OPS	

COIL

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

■ 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℃
Shock Resistance	Functional	$98m/s^2$ （10g）
	Destructive	$980m/s^2$ （100g）
Vibration Resistance		1.5mm 10 to 55Hz
Humidity		35% to 85% RH
Ambient temperature		-25℃ to 70℃
Termination		PC
Unit weight		5g
Construction		Sealed & Unsealed

■TABLE

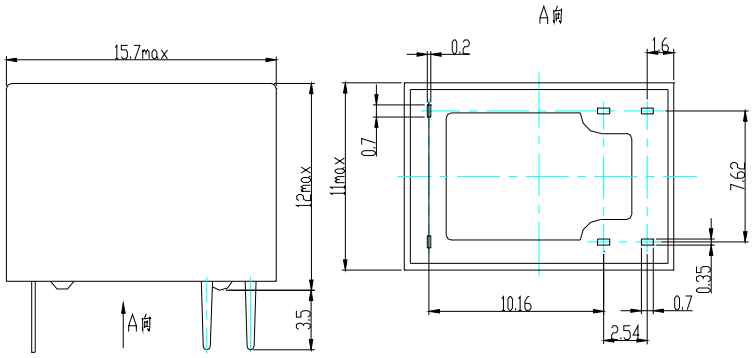
Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. allowable Voltage (at 20 °C)	Coil Resistance Tolerance: ± 10%		
				H	N	B
3	2.3	0.3	3.6	45	25	20
5	3.8	0.5	6.0	120	70	56
6	4.5	0.6	7.2	180	100	80
9	6.8	0.9	10.8	400	220	180
12	9.0	1.2	14.4	700	400	320
24	18.0	2.4	28.8	2800	1600	1280

ORDERING INFORMATION

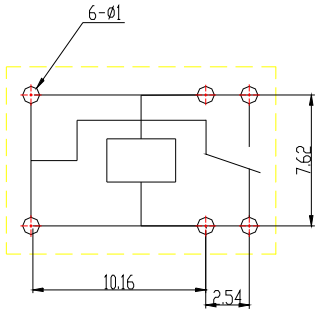
HM4100F(HM4101F)	/	012		N		S
		Coil voltage		Nominal Coil Power		Structure
		3TO24VDC		H:200 mW N:360 mW B:450 mW		Nil: Unsealed S: Sealed

OUTLINE DIMENSIONS , WIRING DIAGRAM AND PC BOARD LAYOUT

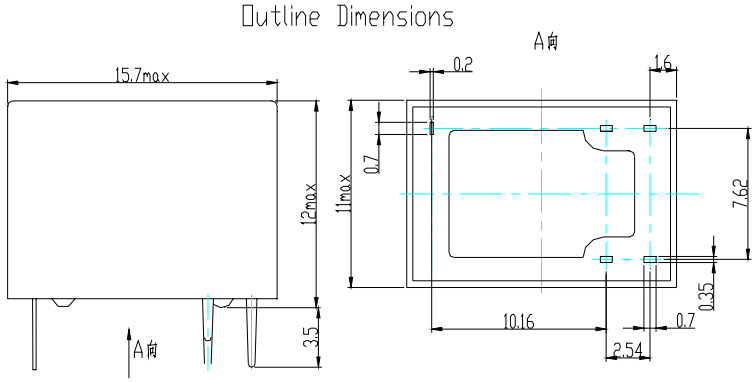
HM4100F
Outline Dimensions



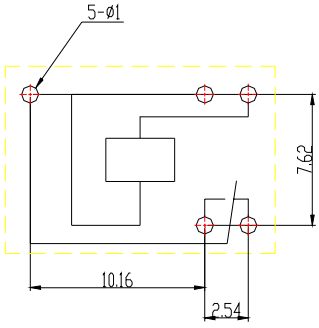
HM4100F
Wiring Diagram & PCB Layout



HM4101F
Outline Dimensions



HM4101F
Wiring Diagram & PCB Layout



USEFUL CURVES