

HM808F



Feature

1. Low Height size: 23(L)x16(W)x10(H)mm
2. Switching Capacity: 16A/125VAC 16A/250VAC TV-5
3. RoHS Compliant

Typical applications

- ◆HVAC ◆Home Appliances ◆Power system
- ◆Intelligent control

Reference cross: PCD(F) HF7520 SPA JH12FT

Specifications

◆ Contact Ratings

Number of poles	1 FORM A		1 FORM C
Arrangement	1 Form A, 1 Form B ,1 Form C		
Initial contact resistance, max.(by voltage drop 6VDC/1A)	50m Ω		
Contact material	Silver alloy		
Rating (resistive load)	Nominal switching capacity	16A 250VAC 16A 125VAC TV-5 120VAC	10A/250VAC(NO) 6A/250VAC(NC)
	Max. switching power	4000VA	2500VA/1500VA
	Max. switching voltage	250VAC	
	Max. switching current	16A	
Expected life (min.operations)	Mechanical (at 300cpm)	1×10^7	
	Electrical (resistive load)	1×10^5	

◆ Coil data

1、1 FORM A				
Rated voltage (VDC)	5	9	12	24
Rated current (mA)	40	22.2	16.7	8.3
Coil resistance (Ω) $\pm$ 10%	125	405	720	2880
Must operate voltage	75% max. of rated voltage			
Must release voltage	5% min. of rated voltage			
Max voltage	130% of rated voltage			
Power consumption	0.2W	0.2W	0.2W	0.2W
2、1 FORM C				
Rated voltage (VDC)	5	9	12	24
Rated current (mA)	80	44.5	33.3	16.7
Coil resistance (Ω) $\pm$ 10%	62.5	202	360	1440
Must operate voltage	75% max. of rated voltage			
Must release voltage	5% min. of rated voltage			
Max voltage	130% of rated voltage			
Power consumption	0.4W	0.4W	0.4W	0.4W

◆ Characteristics

Item		1 pole	
Initial insulation resistance		Min.1000 M Ω (at 500VDC)	
Dielectric strength	Between open contacts	1000VAC 1 Min.	
	Between coil and contacts	2500VAC 1 Min.	
Operate time (at nominal voltage)		10ms	
Release time (at nominal voltage)		5ms	
Temperature rise (at nominal voltage)		50K max. (at 20℃)	
Shock resistance	Functional	100 m/ S ²	
	Destructive	1000 m/ S ²	
Vibration resistance	Functional	10 to 55Hz, at double amplitude 1.5mm	
	Destructive		
Ambient temperature		-40℃～+85℃	
Humidity		45% to 85% RH	
Termination		PCB	
Unit weight		Approx. 8g	

Ordering information

HM808F— X— X X X X X

1 2 3 4 5 6 7

1. Product type: HM808F

2. Coil Voltage

005—5VDC 009—9VDC 012—12VDC 024—24VDC

3. Contact arrangement

Z—1 Form C H—1 Form A

4. Enclosure

S—Sealed plastic case Blank—Vented plastic case

5. Contact material

T—AgSnO₂ Blank—AgCdO

6. Contact Capacity

P—High capacity Blank—Standard

7. Terminal type

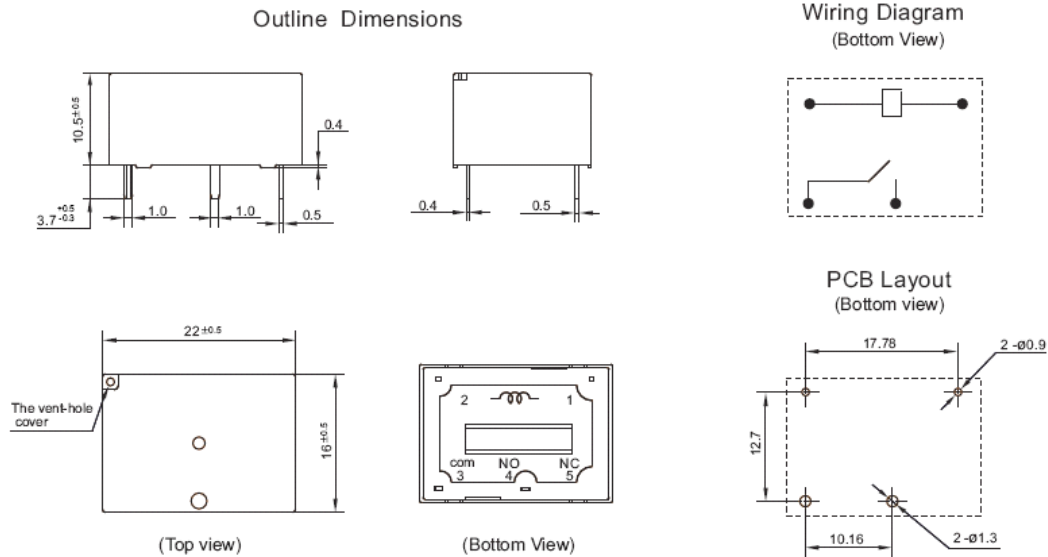
Blank—PCB type Q—Quick connect type

Note: Any special requests, please contact us.

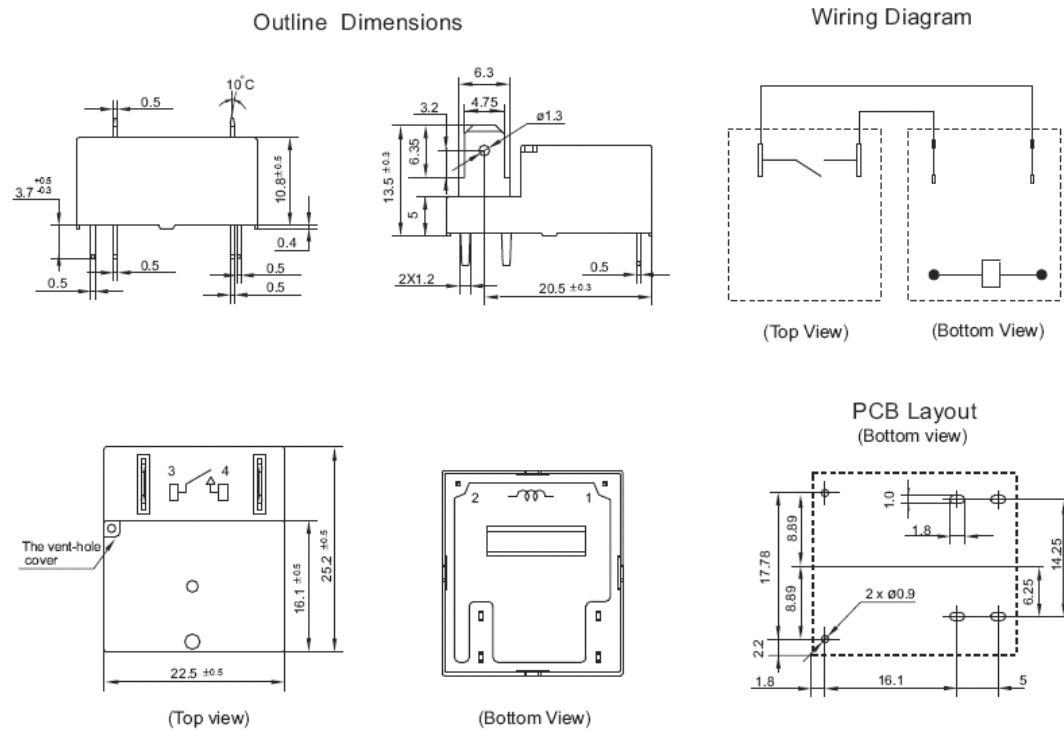
Outline Dimensions, PCB Layout and Wiring Diagram

(Dimensions are in millimeters , to convert millimeters to inches divide by 25.4)

1 Form A (PCB)



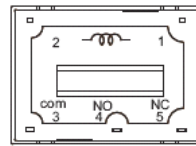
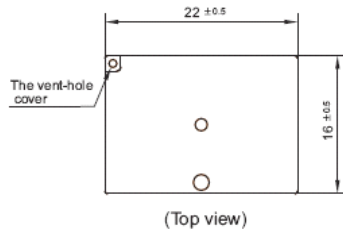
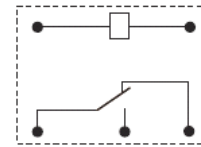
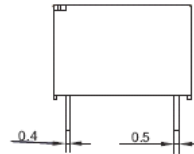
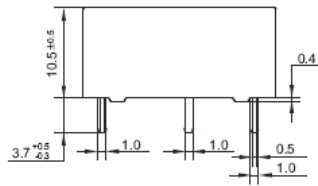
1 Form A (QC)



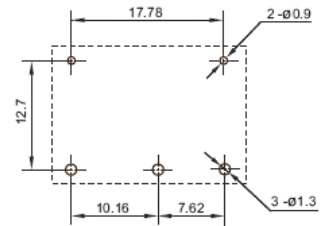
1 Form C (PCB)

Outline Dimensions

Wiring Diagram
(Bottom View)



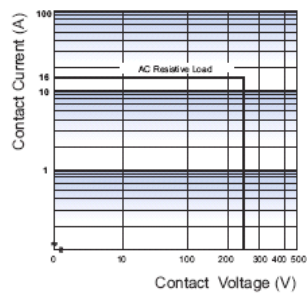
PCB Layout
(Bottom view)



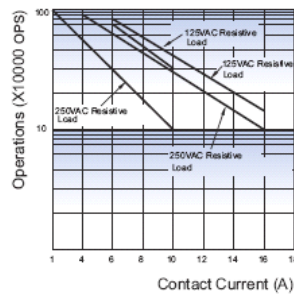
Remark: 1) In case of no tolerance shown in outline dimension: outline dimension $\leq 1\text{mm}$, tolerance should be $\pm 0.2\text{mm}$; outline dimension $> 1\text{mm}$ and $\leq 5\text{mm}$, tolerance should be $\pm 0.3\text{mm}$; outline dimension $> 5\text{mm}$, tolerance should be $\pm 0.4\text{mm}$.
2) The tolerance without indicating for PCB layout is always $\pm 0.1\text{mm}$.

CHARACTERISTIC CURVES

MAXIMUM SWITCHING POWER



ENDURANCE CURVE



COIL TEMPERATURE RISE

