

HK 13F

MINIATURE INTERMEDIATE POWER RELAY



Features

- 15A switching capability
- 1.5kV dielectric strength (between coil and contacts)
- Various terminals available
- 1 & 2 pole configurations
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (28.0 x 21.5 x 35.0)mm

■ CONTACT DATA

Contact Form	1C	2C
Contact Material	Silver Alloy	
Contact Ratings	15A 250VAC/28VDC	10A 250VAC/28VDC
Max Switching Voltage	250VAC /28VDC	
Max Switching Current	15A	10A
Max Switching Power	3750VAC/450W	2500VAC/280W
Contact Resistance	100MΩ(at 1A 6VDC)	
Electrical Life	1X10 ⁵ Ops(30Ops/min)	
Mechanical Life	1X10 ⁷ Ops(300Ops/min)	

■ GENERAL DATA

Insulation Resistance	100MΩ 500VDC	
Dielectric Strength	Between coil & contacts	1500VAC 1min
	Between open contacts	1000VAC 1min
Operate Time	Max. 25ms	
Release Time	Max. 25ms	
Temperature Range	- 40℃ to +70℃	
Shock Resistance	Functional	98m/s ² (10g)
	Destructive	980m/s ² (100g)
Vibration Resistance	10 to 55Hz 1.5mm	
Humidity	40% to 85% RH	
Weight	Approx. 35g	
Safety Standard	CUL On Pending	

■ COIL DATA

Nominal Voltage (VDC)	Coil Resistance at 20℃ ± 10%(Ω)	Max Operate Voltage (VDC)	Min Release Voltage (VDC)	Max Applicate Voltage (VDC)
	0.9W			
5	27.5	4.00	0.50	5.50
6	40	4.80	0.60	6.60
9	90	7.20	0.90	9.90
12	160	9.60	1.20	13.20
24	640	19.20	2.40	26.40
48	2600	38.40	4.80	52.80
110	13500	88.00	11.00	121.00
Nominal Voltage (VAC)	Coil Resistance at 20℃ ± 10%(Ω)	Max Operate Voltage (VAC)	Min Release Voltage (VAC)	Max Applicate Voltage (VAC)
	1.3VA			
6	27.7	4.80	1.80	6.60
12	111	9.60	3.60	13.20
24	443	19.20	7.20	26.40
48	1772	38.40	14.40	52.80
120	11077	96.00	36.00	132.00
220/240	44307	176.00	66.00	264.00

ORDERING INFORMATION

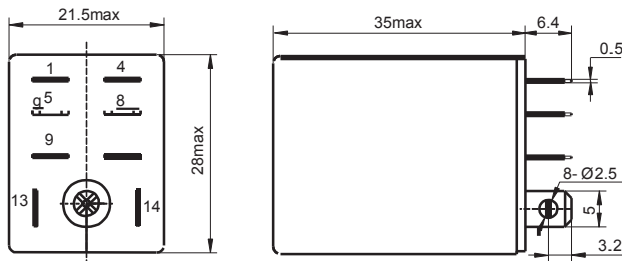
HK13F	-	DC	6V	-	F	D	1C	X	X	X	
Special request code										G:RoHS	
Special request code										NIL: Standard L: with LED selection	
Mounting termination										NIL: PCB P: PLUG-IN F: Flange-mounting	
Contact Form										1C 2C NIL:1C	
Coil Power										NIL: DC:0.9W AC:1.3VA	
Type of Sealing										F: Dust Cover Type	
Coil Voltage										DC:5V 6V 9V 12V 24V 48V 110V AC:6V 12V 24V 120V 220/240V	
Coil Type										DC AC	
Type										HK13F	

OUTLINE DIMENSIONS, WIRINGDIAGRAM AND PC BOARD LAYOUT

Unit: mm

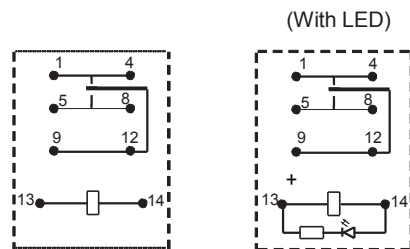
1C PLUG-IN

Outline Dimensions



Wiring Diagram

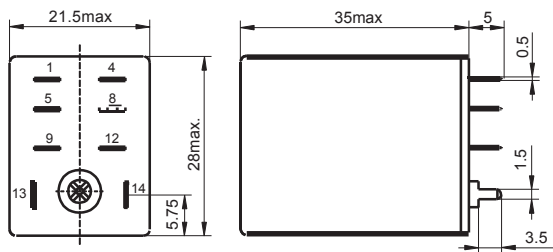
(Bottom view)



2C PCB

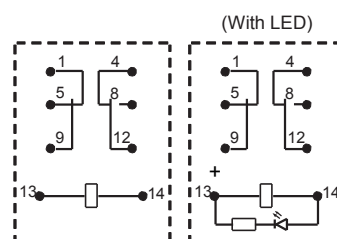
Remark: For AC parts with diode, the positive and negative pole markings on wiring diagram are not applicable.

Outline Dimensions



Wiring Diagram

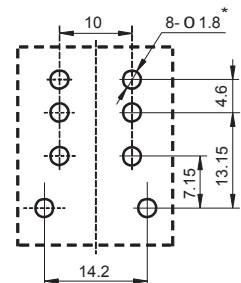
(Bottom view)



Remark: For AC parts with diode, the positive and negative pole markings on wiring diagram are not applicable.

PCB Layout

(Bottom view)



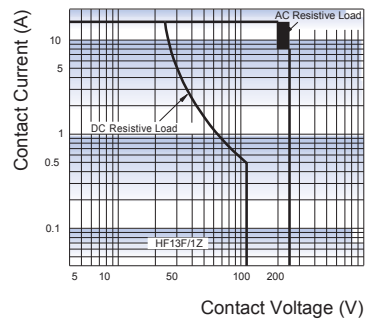
*: Please adjust the site of this diameter according to the actual application.

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 $\pm 0.4\text{mm}$.

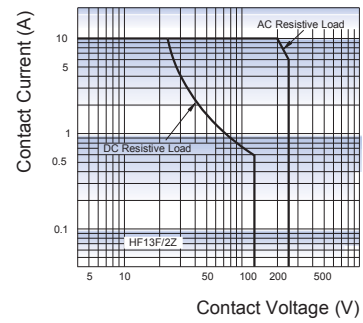
2) The tolerance without indicating for PCB layout is always $\pm 0.1\text{mm}$.

CHARACTERISTIC CURVES

MAXIMUM SWITCHING POWER(1C)



MAXIMUM SWITCHING POWER(2C)



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 tight position choose the suitable product for their own application. If there is any query, please contact Ever-way for the technical service. However, it is the user's responsibility to determine which product should be used only.