

الحمادي للإلكترونيات
ALHAMMADI FOR ELECTRONICS

HK19F SUBMINIATURE DIP RELAY

■ CONTACT DATA

Contact Form	2C
Contact Material	Silver Alloy
Contact Ratings	1A 125VAC /2A 30VDC
Max Switching Voltage	250VAC/125VDC
Max Switching Current	2A
Max Switching Power	125VA /60W
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	1000VAC 1min
	Between open contacts	600VAC 1min
Operate Time	Max. 6ms	
Release Time	Max. 4ms	
Temperature Range	- 30°C to +70°C	
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. 5g	
Safety Standard	CUL TÜV	

■ COIL DATA

Nominal Voltage (VDC)	Coil Resistance at 20°C ± 10%(Ω)				Max Operate Voltage (VDC)	Min Release Voltage (VDC)	Max Applicate Voltage (VDC)
	0.15W	0.20W	0.36W	0.45W			
3	60	45	25	20	2.25	0.30	3.90
5	167	125	70	56	3.75	0.50	6.50
6	240	180	100	80	4.50	0.60	7.80
9	540	405	225	180	6.75	0.90	11.70
12	960	720	400	320	9.00	1.20	15.60
24	/	2880	1600	1280	18.00	2.40	31.20



Features

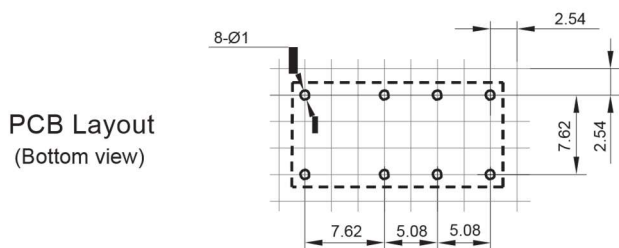
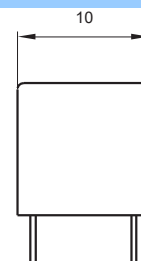
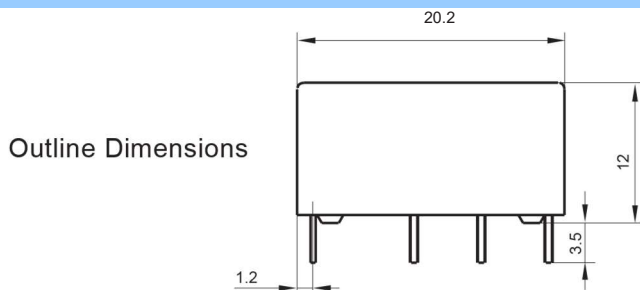
- 2 Form C configuration
- High switching capacity: 125VA/60W
- Bifurcated contacts
- Epoxy sealed for automatic-wave soldering and cleaning
- Environmental friendly product(RoHS compliant)
- Outline Dimensions: (20.2 x 10.0 x 12.0) mm

ORDERING INFORMATION

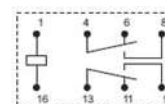
HK19F	-	DC	6V	-	S	D	2C	X	X	Special request code	G:RoHS
										Mounting termination	NIL:PCB
										Contact Form	NIL:2C
										Coil Power	NIL:0.36W D:0.15W H:0.2W L:0.45W
										Type of Sealing	F: Flow Solder Type S: Plastic Sealed Type
										Coil Voltage	3V,5V,6V,9V,12V,24V
										Coil Type	DC
										Type	HK19F

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm



Wiring Diagram (Bottom view)



Remark: 1) In case of no tolerance shown in outline dimension: outline dimension ≤ 1 mm, tolerance should be ± 0.2 mm; outline dimension > 1 mm and ≤ 5 mm, tolerance should be ± 0.3 mm; outline dimension > 5 mm, tolerance

should be ± 0.4 mm.
2) The tolerance without indicating for PCB layout is always ± 0.1 mm.

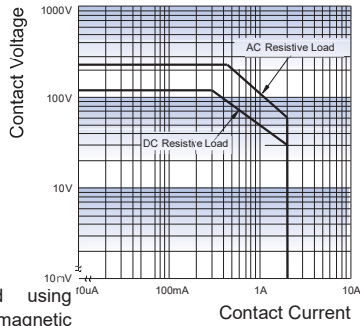
3) The width of the gridding is 2.54mm.

CHARACTERISTIC CURVES

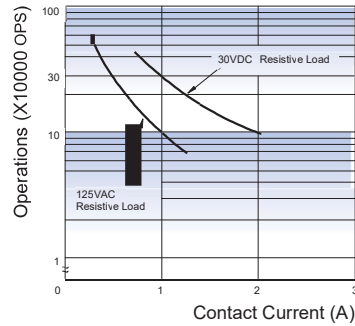
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Notice

MAXIMUM SWITCHING POWER



ENDURANCE CURVE



1) To avoid using strong magnetic change the relays such as pick-up voltage and drop-out voltage.

2) The relay may be damaged because of falling of when shocking conditions exceed the requirement.

3) Regarding the plastic sealed relay, we should leave it cooling naturally until below 40°C after welding, then clean it and deal with coating remarkably the temperature of solvents should also be controlled below 40°C. Please avoid cleaning the relay by ultrasonic, avoid using the solvents like gasoline, Freon, and so on, which would affect the configuration of relay or influence the environment.

4) About preferable condition of operation, storage and transportation, please refer to "Explanation to terminology and guidelines of relay".

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