الحمـــادي للألكترونيـــات
ALHAMMADI FOR ELECTRONICS

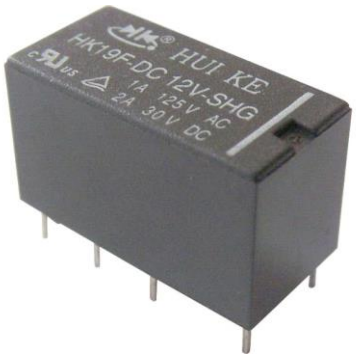
HK19F SUBMINIATURE DIP RELAY

■ 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
Dielectric Strength	Between open contacts	1000VAC 1min
Operate Time	Max. 6ms	600VAC 1min
Release Time		Max. 4ms
Temperature Range		- 30℃ to +70℃
Shock Resistance		Functional
Shock Resistance	Destructive	$98m/s^2$ (10g)
Vibration Resistance	10 to 55Hz 1.5mm	$980m/s^2$ (100g)
Humidity		40% to 85% RH
Weight		Approx. 5g
		CUL TüV



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

■ COIL DATA

Nominal Voltage (VDC)	Coil Resistance at 20℃ ± 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

ORDERING INFORMATION

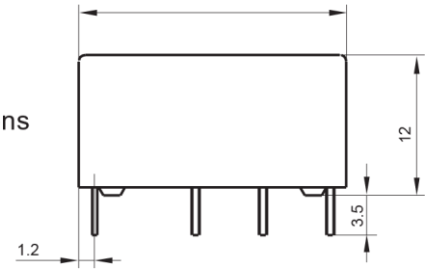
HK19F - DC 6V - S D 2C X X

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

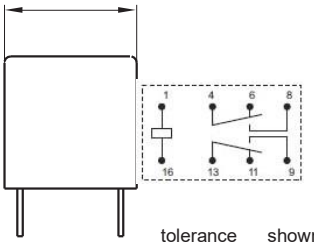
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

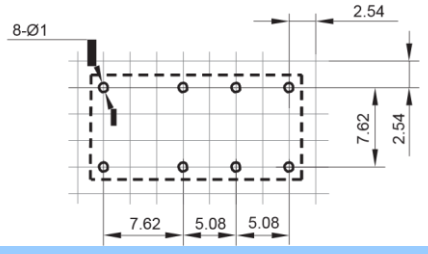
Outline Dimensions



Wiring Diagram
(Bottom view)



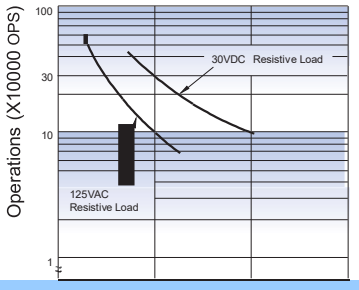
PCB Layout
(Bottom view)



Remark: 1) In case of no tolerance shown in outline dimension: outline dimension ⩽1mm, tolerance should be ±0.2mm; outline dimension >1mm and ⩽5mm, tolerance should be ±0.3mm; outline dimension >5mm, tolerance should be ±0.4mm.

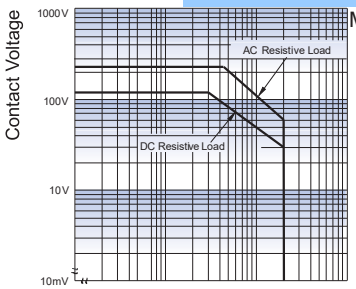
2) The tolerance without indicating for PCB layout is always ±0.1mm.

3) The width of the gridding is 2.54mm.



CHARACTERISTIC CURVES

MAXIMUM SWITCHING POWER



ENDURANCE CURVE

Notice

1) To avoid using relays under strong magnetic field which will change the parameters of relays such as pick-up voltage and drop-out voltage.
2) The relay may be damaged because of falling ot when shocking conditions exceed the requirement.
3) Regarding the plastic sealed relay, we should leave it cooling naturally untill below 40◦C after welding, then clean it and deal with coating remarkably the temperature of solvents should also be controlled below 4◦0 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 guidetines of relay".