HKE19

Magnetic Latching Relay

Features

- Magnetic Latching Relay
- Outline Dimension：19.0×15.5×15.8mm
- 15A of switching capability
- Contact: 1 Form A, 1 Form C
- Only pulse excitation,single and double coil work available
- Dielectric strength of 2700V between coil and contacts
- Friendly product(RoHS Compliant)

Relay Picture

ORDERING INFORMATION

HKE19 - S - DC12V - A - L1

Model	Enclosure	Coil Voltage	Contact Form	Coil Type
	S - Plastic Sealed Type	DC5V,DC6V,DC9V, DC12V,DC24V,DC48V	A-1 Form A C-1 Form C	L1 - Single coil L2 - Double coil

SPECIFICATION

CONTACT DATA

Contact Form		1 Form A, 1 Form C
Contact Material		$AgSnO_2$
Contact Rating		10A 277VAC（Res） 15A 120VAC（Tungsten lamp）
Contact Resistance		Max.100mΩ(6VDC 1A)
Load	Max. Switching Voltage	277VAC/30VDC
	Max. Switching Current	15A(1 Form A) 10A（1 Form C）
	Min. Switching Load	2770VAC/300W
Life	Electrical (60℃)	6×10^3 operations (15A 120VAC Tungsten lamp ON/OFF:1S/59S) 1×10^4 operations (10A 277VAC Resistance ON/OFF:1S/9S)
	Mechanical	1×10^7 operations

GENERAL DATA

Insulation Resistance		Min.100MΩ 500VDC
Dielectric Strength	Between open contacts	750VAC,50/60Hz,1min
	Between coil and contacts	2,700AC,50/60Hz,1min
Operate Time		Max.8ms
Reset Time		Max.5ms
Operating Temperature		-40℃ to +85℃
Humidity		5～85% R.H
Shock Resistance	Endurance	$980m/s^2$
	Misoperation	$98m/s^2$
Vibration Resistance	Endurance	10～55Hz,1.5mmdouble amplitude
	Misoperation	10～55Hz,1.5mmdouble amplitude
Weight		Approximately 11g

Note:Data shown are of initial value

COIL DATA

Coil Power for single coil(L1)	0.4W
Coil Power for double coil(L2)	0.8W

Precautions:

1.The magnetic latching relay is in the reset state of initial value, but it may become the set state due to the impact of transportation or installation. Therefore, before using it (when the power is connected), please check the status of the relay.

2.In order to ensure the set or reset of the magnetic latching relay, the excitation voltage applied to the coil must reach the rated voltage, and the pulse width must be greater than 100ms,do not apply voltage to the set coil and reset coil at the same time, do not apply voltage to the coil for a long time (more than 1 minute).

3.In the process of product transportation, storage and application, please keep the product away from strong magnetic field to avoid the change of set and reset voltage.

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COIL DATA

Ambient Temperature: 23℃

L1 - Single coil

Model	Nominal Voltage VDC	Coil Resistance Ω+/-10%	Operate Voltage ≤VDC	Reset Voltage ≤VDC	Max.Voltage VDC	Coil Power W	Pulse width ≥ms
HKE19-S-DC5V-A-L1	5	62.5	4.0	4.0	10	0.4	100
HKE19-S-DC6V-A-L1	6	90	4.8	4.8	12		
HKE19-S-DC9V-A-L1	9	202.5	7.2	7.2	18		
HKE19-S-DC12V-A-L1	12	360	9.6	9.6	24		
HKE19-S-DC24V-A-L1	24	1440	19.2	19.2	48		
HKE19-S-DC48V-A-L1	48	5760	38.4	38.4	96		
HKE19-S-DC5V-C-L1	5	62.5	4.0	4.0	10	0.4	100
HKE19-S-DC6V-C-L1	6	90	4.8	4.8	12		
HKE19-S-DC9V-C-L1	9	202.5	7.2	7.2	18		
HKE19-S-DC12V-C-L1	12	360	9.6	9.6	24		
HKE19-S-DC24V-C-L1	24	1440	19.2	19.2	48		
HKE19-S-DC48V-C-L1	48	5760	38.4	38.4	96		

L2 - Double coil

Model	Nominal Voltage VDC	Coil Resistance Ω+/-10%	Operate Voltage ≤VDC	Reset Voltage ≤VDC	Max.Voltage VDC	Coil Power W	Pulse width ≥ms
HKE19-S-DC5V-A-L2	5	31.5+31.5	4.0	4.0	10	0.8	100
HKE19-S-DC6V-A-L2	6	45+45	4.8	4.8	12		
HKE19-S-DC9V-A-L2	9	101.5+101.5	7.2	7.2	18		
HKE19-S-DC12V-A-L2	12	180+180	9.6	9.6	24		
HKE19-S-DC24V-A-L2	24	720+720	19.2	19.2	48		
HKE19-S-DC48V-A-L2	48	2880+2880	38.4	38.4	96		
HKE19-S-DC5V-C-L2	5	31.5+31.5	4.0	4.0	10	0.8	100
HKE19-S-DC6V-C-L2	6	45+45	4.8	4.8	12		
HKE19-S-DC9V-C-L2	9	101.5+101.5	7.2	7.2	18		
HKE19-S-DC12V-C-L2	12	180+180	9.6	9.6	24		
HKE19-S-DC24V-C-L2	24	720+720	19.2	19.2	48		
HKE19-S-DC48V-C-L2	48	2880+2880	38.4	38.4	96		

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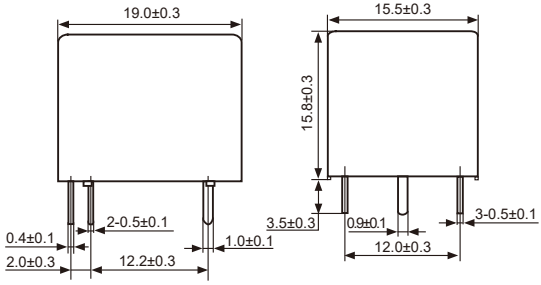
OUTLINE, WIRING DIAGRAM, MOUNTING HOLE LAYOUT (UNIT: mm)

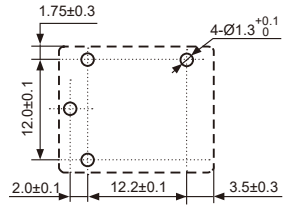
L1 - Single coil

1 Form A

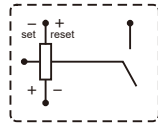
Outline



Mounting Hole Layout
(Bottom View)



Wiring Diagram
(Bottom View)



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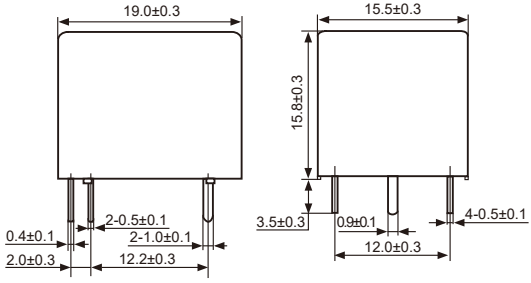
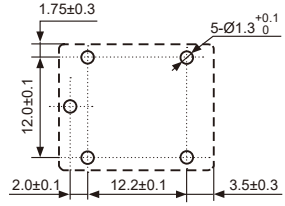
1 Form C

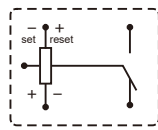
Outline



Mounting Hole Layout
(Bottom View)



Wiring Diagram
(Bottom View)

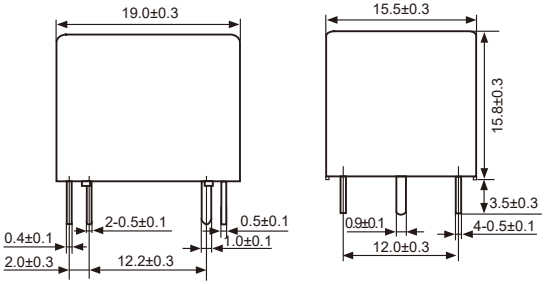


OUTLINE, WIRING DIAGRAM, MOUNTING HOLE LAYOUT (UNIT: mm)

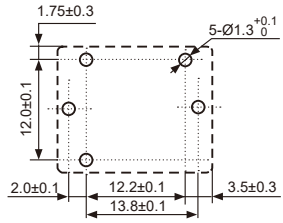
L2 - Double coil

1 Form A

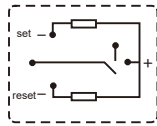
Outline



Mounting Hole Layout
(Bottom View)

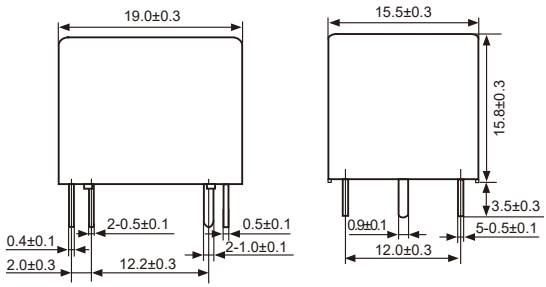


Wiring Diagram
(Bottom View)

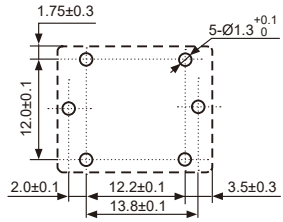


1 Form C

Outline



Mounting Hole Layout
(Bottom View)



Wiring Diagram
(Bottom View)