



## Features

- Microminiature, Magnetic Latching Relay  
Dimensions: 20.2mm × 10mm × 14.0mm
- 16A of switching capability
- Inrush current: 260A
- Comply to IEC 60335-1
- Dielectric strength of 4KV between coil and contacts
- Main applications: white household appliances, intelligent home control system, Lighting control

**RoHS  
Compliant**

## Specification

Contact Data		
Contact Form		1 Form A
Contact Material		Ag Alloy
Contact Rating		16A 277V AC
Contact Resistance		Max.100mΩ (6V DC 1A)
Load	Max. Switching Voltage	277V AC
	Max. Switching Current	16A
	Max. Switching Power	4432VA
	Min. Switching Load	100mA 5V DC
Life*2	Electrical	1×10 <sup>5</sup> (16A, frequency 1s:9s) 2.5×10 <sup>4</sup> (TV-10 250V AC)
	Mechanical	1×10 <sup>6</sup> (180ops/min)
Coil Data		
Nominal Coil Power		L1 (Single coil): 0.25W L2 (Double coil): 0.5W
General Data		
Insulation Resistance		Min.1000MΩ 500V DC
Dielectric Strength	Between open contacts	1,000V AC,50/60Hz,1min
	Between coil and contacts	4,000V AC,50/60Hz,1min
Impulse voltage(Between coil and contacts)		12000V
Operate Time*1		Max. 15ms
Release Time*1		
Operating Temperature		-40°C to +85°C
Humidity		5-85%RH, +40°C
Shock Resistanc	Endurance	1,000m/s <sup>2</sup>
	Misoperation	100m/s <sup>2</sup>
Vibration Resistance	Endurance	10-55Hz, 1.5mm double amplitude
	Misoperation	
Weight		Approximately 7g

\*1: Nominal voltage, No rebound time is included.

## Coil Data

Ambient Temperature: 23°C

Single coil L1

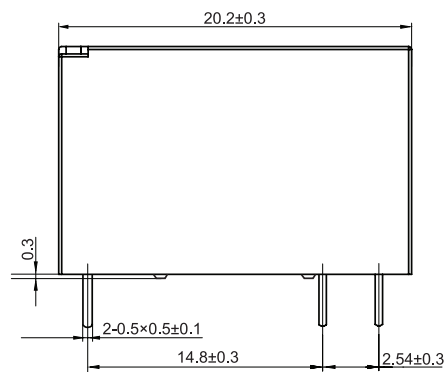
Model	Nominal Voltage V DC	Coil Resistance $\Omega \pm 10\%$	Operate Voltage $\leq V$ DC	Reset Voltage $\leq V$ DC	Coil Power W
MPHKE6L-S-DC5V-A-L1	5	100	4	4	0.25

Double coil L2

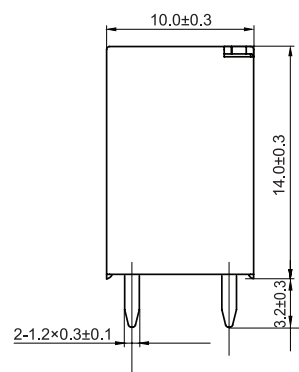
Model	Nominal Voltage V DC	Coil Resistance $\Omega \pm 10\%$		Operate Voltage $\leq V$ DC	Reset Voltage $\leq V$ DC	Coil Power W	
		Set	Reset			Set	Reset
MPHKE6L-S-DC5V-A-L2	5	50	50	4	4	0.5	0.5

## Outline, Wiring Diagram, Mounting Hole Layout

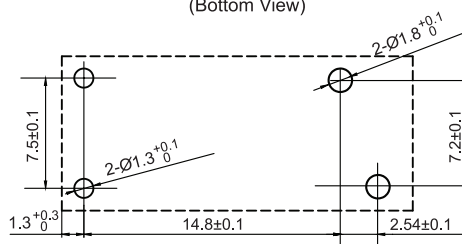
L1 - Single coil



Outline



Mounting Hole for L1  
(Bottom View)

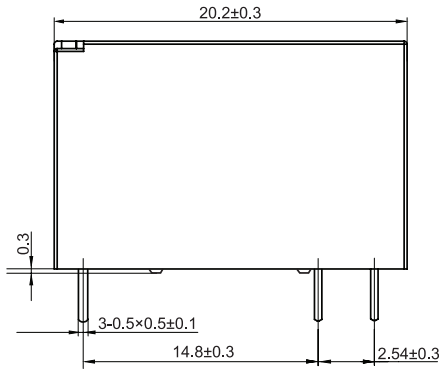


Wiring for L1  
(Bottom View)

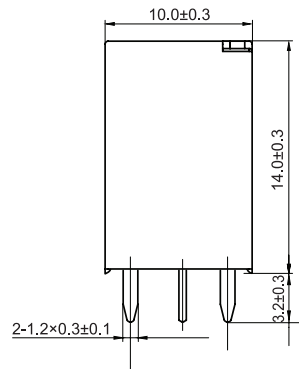


Dimensions : Millimetres

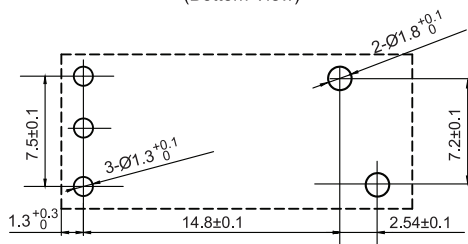
L2 - Double coil



Outline



Mounting Hole for L2  
(Bottom View)



Wiring for L2  
(Bottom View)



## Part Number Table

Description	Part Number
Power Relay, PCB Type, NO,0.25W, 16A, 5V DC, Single Coil	MPHKE6L-S-DC5V-A-L1
Power Relay, PCB Type, NO, 0.25W, 16A, 5V DC, Double Coil	MPHKE6L-S-DC5V-A-L2

Dimensions : Millimetres

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