



Features

- Magnetic Latching Relay
- Outline Dimension: 19mm × 15.5mm × 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

**RoHS
Compliant**

Specification

Contact Data		
Contact Form	1 Form A, 1 Form C	
Contact Material	Ag Alloy	
Contact Rating	C:NO/NC:10A/5A 277V AC (Res) A:10A 277V AC (Res) TV-8 250V AC (NO)	
Contact Resistance	Max.100mΩ (6V DC 1A)	
Load	Max. Switching Voltage	277V AC/30V DC
	Max. Switching Current	15A (1 Form A) 10A (1 Form C)
	Min. Switching Load	2770V AC/300W
Life	Electrical	2.5×10 ⁴ operations (TV-8,40°C) 5×10 ⁴ operations (NO/NC:10A/5A 277V AC ON/OFF:1S/9S,85°C)
	Mechanical	1×10 ⁷ operations
Coil Data		
Coil Power for single coil (L1)	0.25W, 0.4W	
Coil Power for double coil (L2)	0.45W, 0.8W	
General Data		
Insulation Resistance	Min.100MΩ 500V DC	
Dielectric Strength	Between open contacts	750V AC,50/60Hz,1 min
	Between coil and contacts	2,700AC,50/60Hz,1min
	Between coil and contacts (specifically designed)	4,000AC,50/60Hz,1sec
Operate Time	Max. 8ms	
Release Time	Max. 5ms	
Operating Temperature	-40°C to +85°C	
Humidity	5-85% RH	
Shock Resistanc	Endurance	980m/s ²
	Misoperation	98m/s ²
Vibration Resistance	Endurance	10-55Hz,1.5mm double amplitude
	Misoperation	
Weight	Approximately 9g	

Note:Data shown are of initial value

Coil Data

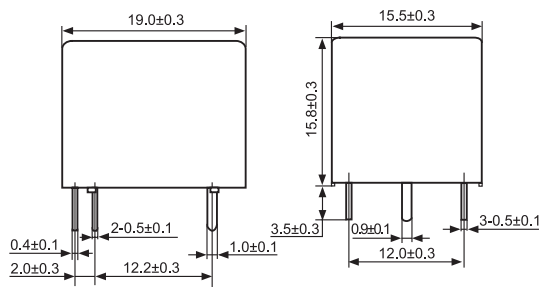
Ambient Temperature: 23°C

Model	Nominal Voltage V DC	Coil Resistance Ω +/-10%	Operate Voltage \leq V DC	Reset Voltage \leq V DC	Max. Voltage VDC	Coil Power W	Pulse width \geq ms
MPCMA36N-DC12V-A-R	5	62.5	2.4	2.4	6	0.4	100
MPCMA36N-DC24V-A-R		31.5+31.5	4	4	10	0.8	
MPCMA36N-S-DC12V-A-R		62.5				0.4	
MPCMA36N-S-DC24V-A-R		31.5+31.5	0.8				

Outline, Wiring Diagram, Mounting Hole Layout

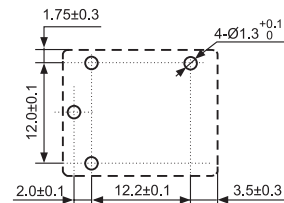
L1 - Single coil

1 Form A

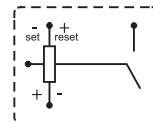


Outline

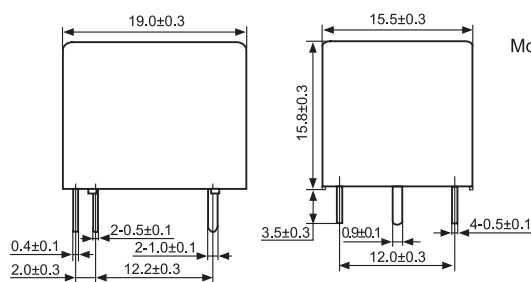
Mounting Hole Layout
(Bottom View)



Wiring Diagram
(Bottom View)

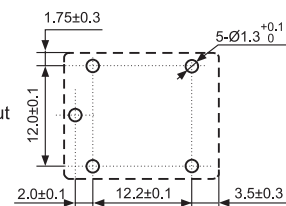


1 Form C

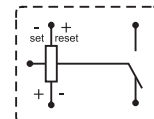


Outline

Mounting Hole Layout
(Bottom View)



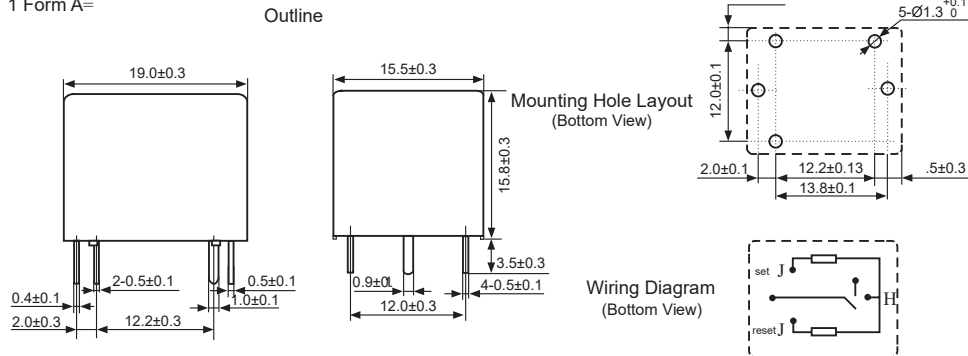
Wiring Diagram
(Bottom View)



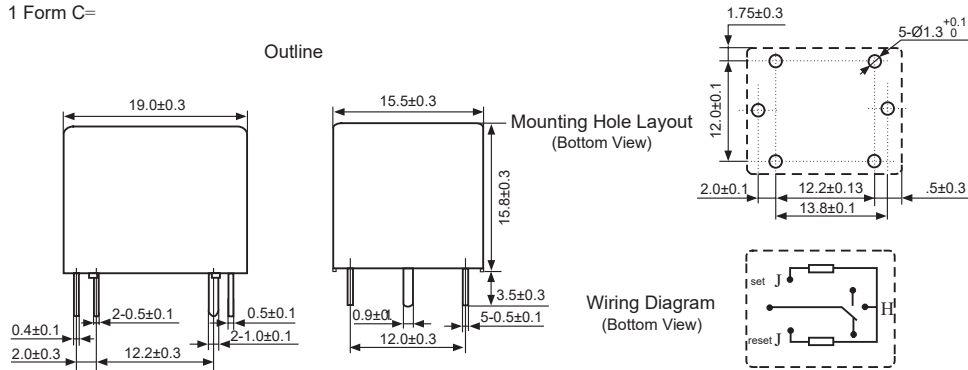
Dimensions : Millimetres

L2 - Double coil

1 Form A=



1 Form C=



Part Number Table

Description	Part Number
Power Relay, PCB Type, NO,0.4W, 10A, 100ms, 5V DC	MPHKE19-S-DC5V-A-L1
Power Relay, PCB Type, NO,0.8W, 10A, 100ms, 5V DC	MPHKE19-S-DC5V-A-L2
Power Relay, PCB Type, NO/NC,0.4W, 10A/5A, 5V DC	MPHKE19-S-DC5V-C-L1
Power Relay, PCB Type, NO/NC,0.8W, 10A/5A, 5V DC	MPHKE19-S-DC5V-C-L2

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