

RoHS  
Compliant



## Features

- Microminiature automotive relay
- Dimensions: 15.6mm × 12.2mm × 13.7mm
- Double make contact
- Applications: Car alarm, reverse sensor, etc

## Specification

Contact Data		
Contact Form		Double N.O. Contact
Contact Material		Ag Alloy
Contact Rating		12V: 2 × 6A 13.5V DC Resistive 24V: 2 × 5A 28V DC Resistive
Contact Resistance		Max. 100mΩ (6V DC 1A)
Load	Max.Continuous current	2×10A (23°C, 1h)
	Max.Switching Voltage	2×10A
	Min. Switching Load	6V DC 1A
Life	Electrical	100,000 operations
	Mechanical	10,000,000 operations
Coil Data		
Nominal Coil Power		1W
General Data		
Insulation Resistance		Min.100MΩ 500V DC
Dielectric Strength	Between open contacts	550V AC, 1min
	Between coil and contacts	
Operate Time		Max. 10ms
Release Time		Max. 5ms
Operating Temperature		-40°C to +85°C
Humidity		35-95%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 amplitud
	Misoperation	10-55Hz, 1.5mm double amplitude
Weight		Approximately 6g

Note:Data shown are of initial value

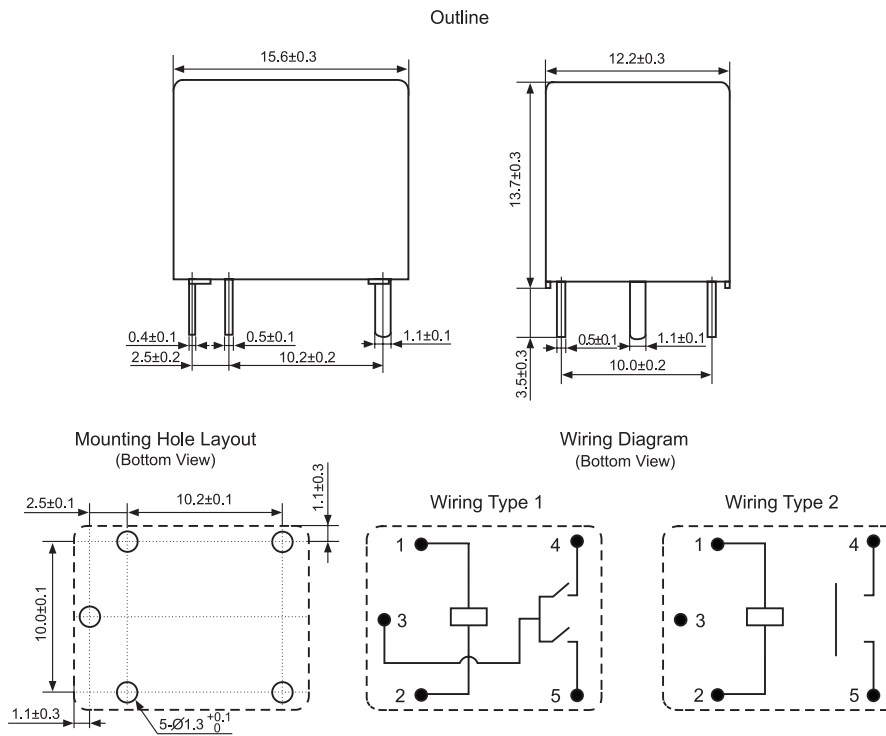
# Automotive Relay

## Coil Data

Ambient Temperature: 23°C

Model	Nominal Voltage V DC	Coil Resistance $\Omega$ +/-10%	Operate Voltage $\leq$ V DC	Release Voltage $\geq$ VDC	Coil Power W
MPCMA55-S-DC12V-A	12	144	6.9	1.2	1

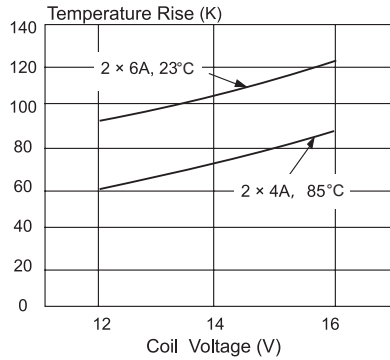
## Outline, Wiring Diagram, Mounting Hole Layout



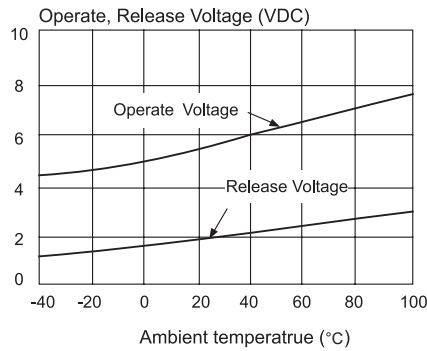
Dimensions : Millimetres

## Reference Data

Coil Temperature Rise



Operate, Release Voltage VS. Temperature (12VDC)



## Part Number Table

Description	Part Number
Automotive Relay, PCB Type, NO, 1.0W, 2 x 6A	MPCMA55-S-DC12V-A

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