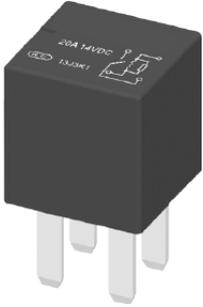


RoHS
Compliant



Features

- Microminiature: 15.6mm × 15.2mm × 16.5mm
- 125°C of operating ambient temperature
- 2.8mm of Flat quick connection terminal

Specification

Contact Data		
Contact Form	A- 1 Form A	
Contact Material	Ag Alloy	
Contact Rating	12V: 20A 14V DC 24V: 15A 28V DC	
Contact Resistance	Max. 50mΩ	
Load	Max. Continuous Current	20A
	Max. Switching Current	Make: 100A Break: 30A
	Min. Switching Load	6V DC 1A
Life	Electrical	100,000 operations
	Mechanical	10,000,000 operations
Coil Data		
Nominal Coil Power	0.95W	
Nominal Coil Power(With Resistor)	1.1W	
General Data		
Insulation Resistance	Min.100MΩ 500V DC	
Dielectric Strength	Between open contacts	550V AC,50/60Hz,1 min
	Between coil and contacts	
Operate Time	Max. 10ms	
Release Time		
Operating Temperature	-40°C to +125°C	
Humidity	5-85%RH	
Shock Resistanc	196m/s ² (20g)	
Vibration Resistance	10Hz-40Hz,1.27mm Double Amplitude, 40Hz-70Hz,49m/s ² (5g) 70Hz-100Hz,0.5mm Double Amplitude, 100Hz-500Hz,98m/s ² (10g)	
Weight	Approximately 10g	

Note:Data shown are of initial value

Automotive Relay

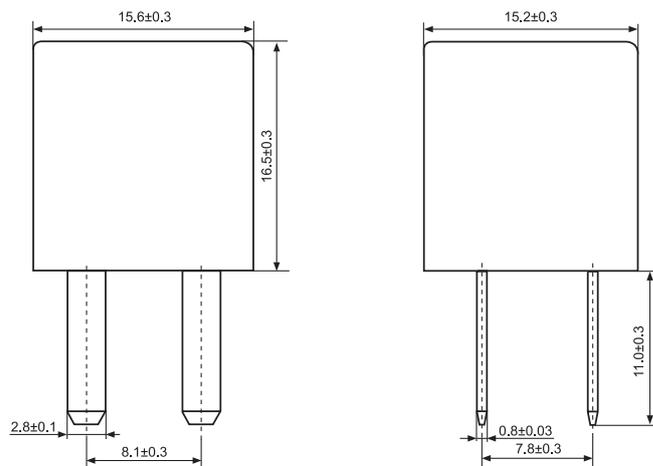
Coil Data

Ambient Temperature: 23°C

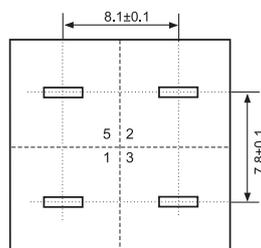
Model	Nominal Voltage V DC	Coil Resistance Ω +/-10%	Parallel resistor (1±5%) Ω	Equivalent Resistance Ω +/-10%	Operate Voltage \leq V DC	Release Voltage \geq VDC	Coil Power W
MPCMA57-S-DC12V-A-R	12	155	1000	135	7.2	1.2	1.1

Outline, Wiring Diagram, Mounting Hole Layout

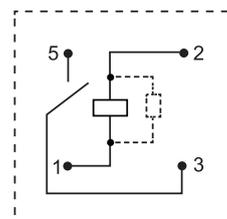
Outline



Mounting Hole Layout (Bottom View)



Wiring Diagram (Bottom View)



Note: The degree of vertical for terminals is 0.3mm.

Part Number Table

Description	Part Number
Automotive Relay, Quick Connect Type, NO, 1.1W, 20A	MPCMA57-S-DC12V-A-R

Dimensions : Millimetres

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