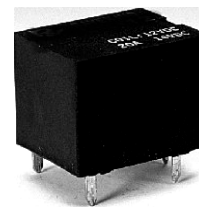


# R501 Automotive power relay



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## Features

- ★ Small size, light weight.
- ★ Double make contact, low coil consumption.
- ★ Standard terminal pitch employed, PC board mounting..
- ★ Suitable for automatic control facilities and automobile application etc.

## Operation condition

Insulation Resistance	100M $\Omega$ min (at 500V)
Dielectric Strength:	
Between coil and Contacts	50Hz 500V
Between open contacts	50Hz 500V
Operate time	10ms
Release time	5ms
Shock Resistance	200 m/s <sup>2</sup> 11ms
Vibration Resistance	10~55Hz double amplitude 1.5mm
Temperature rise	10N
Humidity	85% (at 20°C)
Ambient temperature	-40°C~85°C
Termination	PCB
Construction	Sealed
Weight	6g

## Contact data

Contact Arrangement	1C,1U
Initial Contact Resistance	$\leq 50m\Omega$
Contact Material	Ag alloy
Contact Rating(Res.Load)	NO:20A/14VDC 10A/120VAC NC:15A/14VDC,10A/120VAC 5A/250VAC 1U:2 $\times$ 10A/14VDC
Max.Switching Power	280W 1250VA
Max.switching Voltage	42VDC 380VAC
Max.switching Current	20A
Rating	NO:20A/14VDC 10A/120VAC NC:10A/14VDC 1/2HP 125VAC TV-5
Mechanical life	$1 \times 10^7$
Electrical life	$1 \times 10^5$

## Coil parameter(0.6W)

Nominal Voltage VDC	Pick-up Voltage VDC	Release Voltage VDC(min)	Coil Voltage VDC(max)	Coil Resistance (at 20°C) $\Omega$
6	4.8	0.30	6.6	60 $\pm$ 10%
9	7.2	0.45	9.9	135 $\pm$ 10%
12	9.6	0.60	13.2	240 $\pm$ 10%
24	19.2	1.20	26.4	960 $\pm$ 10%

## Coil parameter(0.8W)

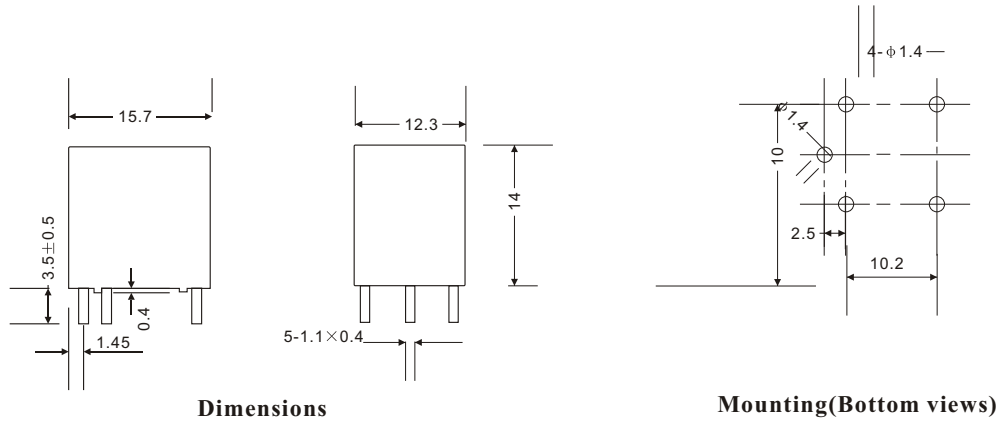
Nominal Voltage VDC	Pick-up Voltage VDC	Release Voltage VDC(min)	Coil Voltage VDC(max)	Coil Resistance (at 20°C) $\Omega$
6	4.8	0.30	6.6	45 $\pm$ 10%
9	7.2	0.45	9.9	102 $\pm$ 10%
12	9.6	0.60	13.2	180 $\pm$ 10%
24	19.2	1.20	26.4	720 $\pm$ 10%

## ORDERING DESIGNATION

R501	D	/	012	Z	1	R	-
<b>Model</b>	<b>Coil type</b>		<b>Coil Voltage</b>	<b>Contact Form</b>	<b>Version</b>	<b>Contact Material</b>	<b>coil power</b>
R501	D=DC		006=6.0V 009=9.0V 012=12V 024=24V	Z= 1C SH= 1U	1=SEALED	L or R = Ag alloy	Nil= 0.6W 0.8 = 0.8W

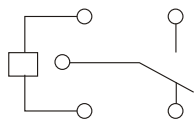
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**Dimensions (Unit: mm)**

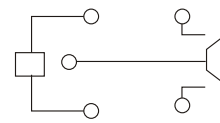


**Dimensions**

**Mounting (Bottom views)**



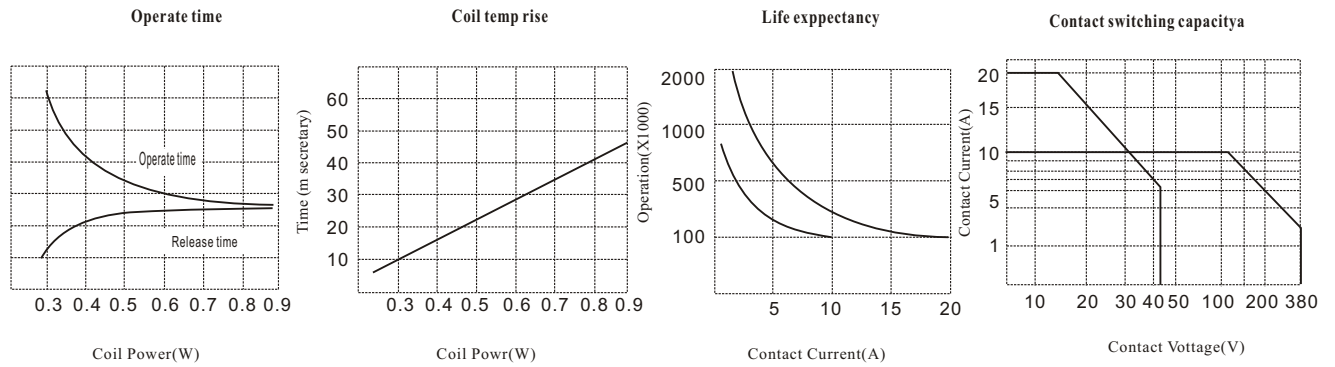
**1C**



**1U**

**Wiring diagram (bottom views)**

**CHARACTERISTICS CURVE**



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