

# MP SERIES

**ORDER CODE**

MP-5-S-L

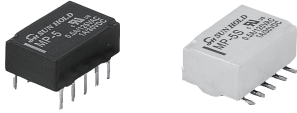
□: Single Side Stable  
 L: 1 Coil Latching  
 K: 2 Coil Latching

□: DIP  
 S: SMD

COIL VOLTAGE

TYPE

3: DC 3V  
 5: DC 5V  
 6: DC 6V  
 9: DC 9V  
 12: DC 12V  
 24: DC 24V



**Main Features:**

- Ultra small size and high sensitivity type.
- Conforms to 1500V FCC Part 68 and Dielectric 1000VAC.
- Surface mount Type with "L" shaped terminals and "DIL" pitch terminals.
- Single Side stable, one Coil latching and two Coil latching are available.

## COIL RATING (at 20°C)

NOMINAL VOLTAGE (VDC)	COIL RESISTANCE (Ω)(±10%)	POWER CONSUMPT - ION(W)	NOMINAL CURRENT (mA)(±10%)	PULL IN VOLTAGE (VDC)	DROP OUT VOLTAGE (VDC)	MAX. ALLOWABLE VOLTAGE (VDC)	OPERATE TIME (ms)	RELEASE /RESET TIME (ms)
3V	64.3Ω	0.14W	46.7mA	2.25V	0.3V	4.5V	2msec Max.	1msec Max.
5V	178.0Ω		28.1mA	3.75V	0.5V	7.5V		
6V	257.0Ω		23.3mA	4.50V	0.6V	9.0V		
9V	579.0Ω		15.5mA	6.75V	0.9V	13.5V		
12V	1028.0Ω		11.7mA	9.00V	1.2V	18.0V		
24V	2880.0Ω	0.20W	8.3mA	18.00V	2.4V	36.0V		
<b>1 Coil Latching</b>			<b>Reset(Max)</b>					
3V	90.0Ω	0.10W	33.3mA	2.25V	-2.25V	4.5V	2msec Max.	2msec Max.
5V	250.0Ω		20.0mA	3.75V	-3.75V	7.5V		
6V	360.0Ω		16.7mA	4.50V	-4.50V	9.0V		
9V	810.0Ω		11.1mA	6.75V	-6.75V	13.5V		
12V	1440.0Ω		8.3mA	9.00V	-9.00V	18.0V		
24V	3840.0Ω	0.15W	6.3mA	18.00V	-18.00V	36.0V		Reset
<b>2 Coil Latching</b>			<b>Reset(Max)</b>					
3V	45.0/45.0 Ω	0.20W	66.7mA	2.25V	-2.25V	4.5V	2msec Max.	2msec Max.
5V	125.0/125.0 Ω		40.0mA	3.75V	-3.75V	7.5V		
6V	180.0/180.0 Ω		33.3mA	4.50V	-4.50V	9.0V		
9V	405.0/405.0 Ω		22.2mA	6.75V	-6.75V	13.5V		
12V	720.0/720.0 Ω		16.7mA	9.00V	-9.00V	18.0V		
24V	1290.0/1290.0Ω	0.30W	12.5mA	18.00V	-18.00V	28.8V		Reset

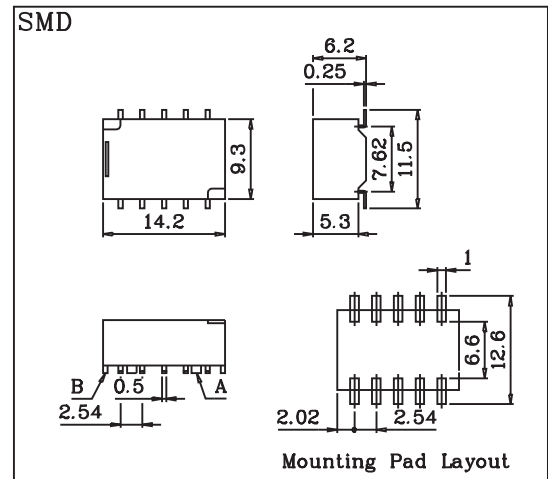
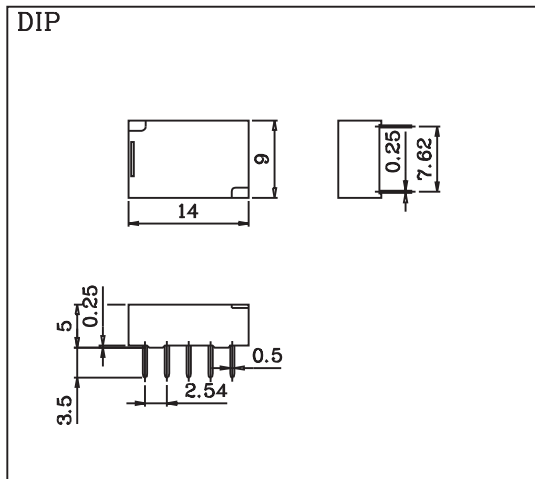
## PERFORMANCE (at initial value)

Item	Type	2c
Contact Resistance		50mΩ Max. (initial value)
Dielectric Strength between coil & contact between contact		AC1000V (1min),1500V FCC68 AC1000V (1min),1500V FCC68
Insulation Resistance		1000MΩ Min.(DC500V)
Operating Ambient Temperature		-40°C ~ +70°C
Humidity		35 to 85% RH
Vibration Resistance		10G (10~55Hz)(Dual amplitude:1.5mm)
Shock Resistance		10G
Life Expectancy Mechanically Electrically		100,000,000 ops. Min(1800 ops./h) 200,000 ops. Min.(1A 30VDC resistive load 1200 ops./h) 100,000 ops. Min.(0.5A 125VAC resistive load 1200 ops./h)
Weight		1.5g(about)

### CONTACT RATING

Item	Type	2c
Rated Carrying Current		DC30V 1A AC125V 0.5A
Max. Allowable Current		1A
Max. Switching Power		30W,62.5VA
Max. Switching Voltage		DC220V AC250V
Max. Switching Current		1A
Contact Material		Ag Alloy

### DIMENSIONS(Unit: mm)



### WIRING DIAGRAMS(Bottom View)

