

MP SERIES

ORDER CODE

MP-5-S-L

□: Single Side Stable

L: 1 Coil Latching

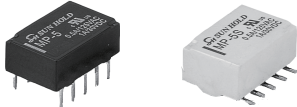
K: 2 Coil Latching

□: DIP

S: SMD

COIL VOLTAGE

TYPE



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.

3: DC 3V

5: DC 5V

6: DC 6V

9: DC 9V

12: DC 12V

24: DC 24V

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		
1 Coil Latching				Reset(Max)				Reset
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		
2 Coil Latching				Reset(Max)				Reset
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		

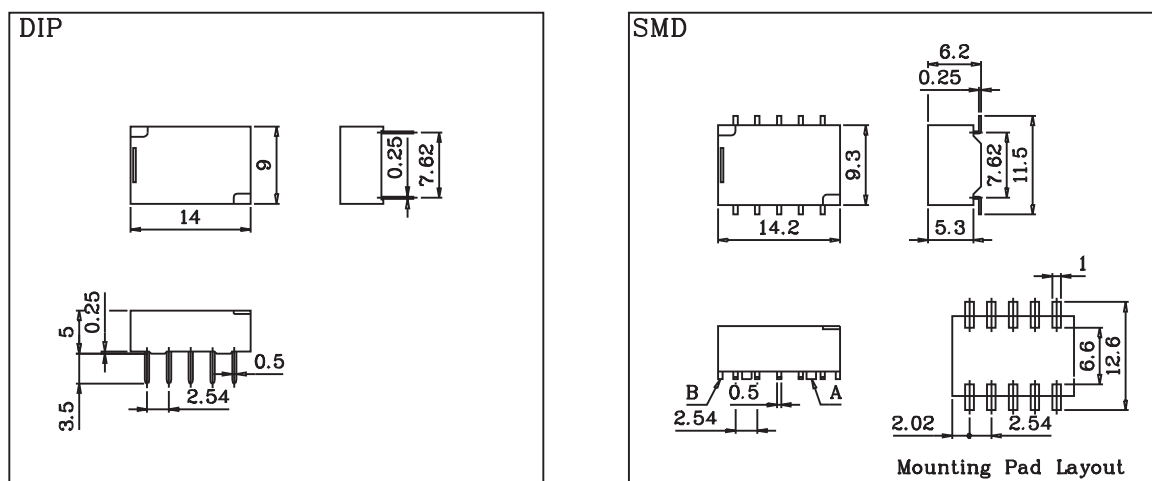
PERFORMANCE (at initial value)

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

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)

