



MK

12. 9*12*9. 9mm

Product Features

- ◆ Subminiature,high power automotive relay
- ◆ Switching current Max.30A
- ◆ Light weight
- ◆ Sealed&Dust-proof types available
- ◆ Fit for automotive central door lock,wiper,instrument,security system,flash lamps,seat heating,etc.
- ◆ Dimension:12.9*12*9.9mm

Contact Rating

Contact Form	1A:SPSTNO; 1C:SPDT(B-M)	
Contact Material	AgSnO2 AgNi	
Contact Load Capacity	NO:30A; NC:25A	
Switching Voltage Max.	14VDC	
Switching Current Max.	30A	
Load Min.	1A/6VDC	
Contact Resistance Max.	100mΩ(1A 6VDC)	
Life Expectancy	Machanical	1*10 ⁷
	Electrical	See below charts

SPST: 1A

SPDT: 1C

Load Voltage	Load Type		Current (A)	On&Off		Life Expectancy
				On(s)	Off(s)	
13.5VDC	Resistive	On	20	1	5	3*10 ⁵
		Off	20			
	Wiper motor load	On	25	0.2	2	3*10 ⁵
		Off	5			
	Motor Lock	On	20	0.2	2	1*10 ⁵
		Off	20			

Load Voltage	Load Type		Current (A)	On&Off		Life Expectancy
				On(s)	Off(s)	
13.5VDC	Resistive	On	20	1	5	3*10 ⁵
		Off	20			
	Flash lamp	On	3*21w	0.365	0.365	2*10 ⁶
		Off				
	Front lamp	On	40	2	2	1*10 ⁵
		Off	10			

Coil Rating (20℃)

Coil Voltage (VDC)	Pick up Max. (VDC)	Drop out Min. (VDC)	Coil Resistance (1±10%)Ω	Power (W)	Coil Voltage Max.(VDC)	
					20℃	85℃
5	3.0	0.62	45	0.55	6.5	10.5
10	6.0	1.25	181	0.55	13	22
12	7.0	1.5	255	0.57	16	26
	6.9	1.5	181	0.8	13	22
24	14.0	3.0	1050	0.55	32	52

Technical Rating

Insulation Resistance	100MΩ(500VDC)	IEC 60255-5
Dielectrical Strength	500VAC 1min	IEC 60255-5
Operate Time	≤10ms , Typical≤4ms	
Release Time	≤10ms , Typical≤3ms	
Shock Resistance	294m/s ²	IEC 68-2-27 test Ea
Vibration Resistance	10Hz~50Hz 58.8m/s ²	IEC 68-2-6 test Fc
Leading-out Terminal	PCB terminal	
Weldability	(250±3)℃ , (3±0.3)s	
Ambient Temperature	- 40℃~105℃	
Package	Sealed,Dust-proof type	
Weight	Approx.4g	

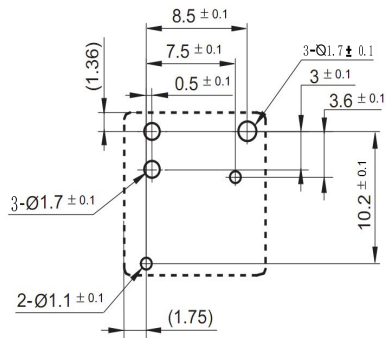
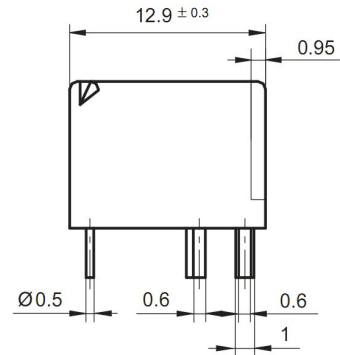
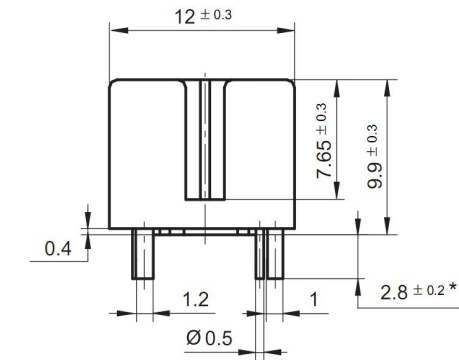
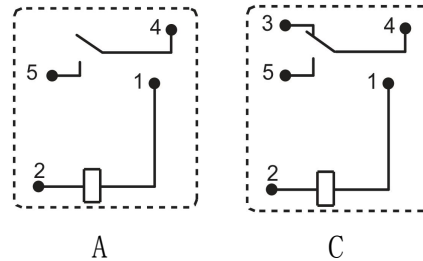
Designation

MK **C** — **S** — **12**
1 2 3 4

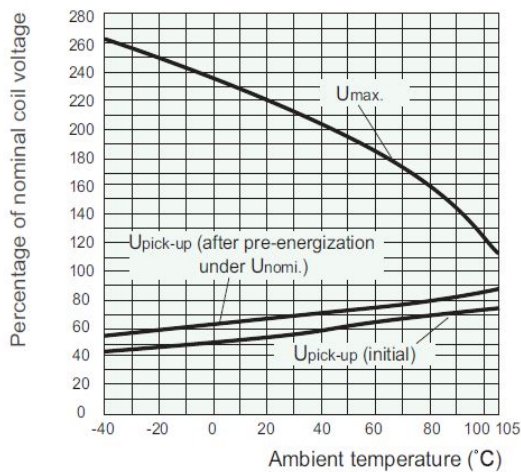
- 1、 Model: MK
- 2、 Contact Form: A:SPSTNO C:SPDT
- 3、 Package Type: S:Sealed D:Dust-proof type
- 4、 Rated Voltage: 5, 10, 12, 24VDC

Dimension

Unit: mm

Outline Dimensions

Bottom View Layout

Wiring Diagram(Bottom View)
Engineering Data

1. Coil operating voltage range


 2. Reflow soldering, temperature on PCB board.
(Recommended soldering temperature, only for reflow soldering version)
