



702

Features	<div>- Compact size and low 5-mm profile.</div> <div>- Low power consumption (140mW for single-side stable, 100 to 300mW for latching type).</div> <div>- Low thermo electromotive force.</div> <div>- Low magnetic interference enables high-density mounting.</div> <div>- Single-and double-winding latching types also available.</div> <div>- UL and CAS approval.</div>	
Contact resistance ⁽¹⁾	100mΩ Max.	
Operate time ⁽¹⁾	single-side stable type: 3ms Max.	
	latching type: 3ms Max.	
Release time ⁽¹⁾	single-side stable type: 2 ms Max	
	latching type: 3ms Max.	
Bounce time	operate: approx 0.5ms	
	release: approx 0.5ms	
	set/reset: approx 0.5ms	
Min. set/reset signal width	latching type: 5ms min.	
Insulation resistance ⁽¹⁾	1000MΩMin.(DC 500V) Between set and reset coil: 100MΩ(DC125V)	
Dielectric strength ⁽¹⁾	Between coil and contacts: AC 1000V, 50/60Hz 1 min.	
	Between contact of different polarity: AC 1000V, 50/60Hz 1 min.	
	Between contact of same polarity: AC 750V, 50/60Hz 1 min.	
	Between set and reset coil: AC 125V, 50/60Hz 1 min. (double-winding latching)	
Surge withstand voltage	Between contact of same polarity: AC 1500V(10×160μs) (conforms to FCC part 68)	
Vibration resistance	Operating extremes	10~55Hz, double amplitude 5mm
	Damage limits	10~55Hz, double amplitude 3mm
Shock resistance	Operating extremes	500 m/s ²
	Damage limits	1000 m/s ²
Life expectancy	Mechanical	100,000,000 operations (frequency 36,000 operations/hr)
	Electrical	200,000 operations (frequency 1,800 operations/hr)
Operating ambient temperature	-40 ~ +70℃(no freezing)	
Weight	Approx. 1.5g	

-Note: (1) initial value

■ Type List

Terminal style	Contact form	Relay function	Terminal shape	Enclosure style
				plastic sealed
PCB terminal	2C(DPDT)	Single-side stable	PCB terminal	702-2C-S
		Single-winding latching		702U-2C-S
		Double-winding latching		702K-2C-S
		Single-side stable	Surface mount terminal	702F-2C-S-TR

■ Odering Information

702	702	Basic series designation
U	Black	Single-side stable
	U	Single-winding latching
	K	Double-winding latching
F	Blank	PCB terminal
	F	Surface mount terminal
2C	2C	Double pole double throw
S	S	Plastic sealed
	U	Ultrasonically cleanable
TR	Blank	Standard type
	TR	Tape packing

■ Contact Rating

Rated load(resistive load)	0.5A at 125VAC, 1A at 30VDC
Contact material	Ag + Au-clad
Max. continuous current	1A
maximum switching voltage	125VAC, 110VDC
Maximum switching capacity	62.5VA, 33W
Min. permissible load	0.01μA at 10mVOD

- Note: P level: λ₆₀=0.1×10⁻⁶/operation

■ Coil Rating(Single-side stable)

Rated voltage (V)	Rated current ±10% at 23℃ (mA)	Coil resistance ±10% at 23℃(Ω)	Max. continuous voltage at 23℃	Pick up voltage (Max) at 23℃	Drop out voltage (Min) at 23℃	Power consumption at rated voltage
3	46.7	64.3	200% of rated voltage	75% of rated voltage	10% of rated voltage	approx. 0.14W
5	28.1	178				
6	23.3	257				
9	15.5	579				
12	11.7	1028	170% of rated voltage			approx. 0.2W
24	8.3	2880				

■ Coil Rating(Single-winding latching)

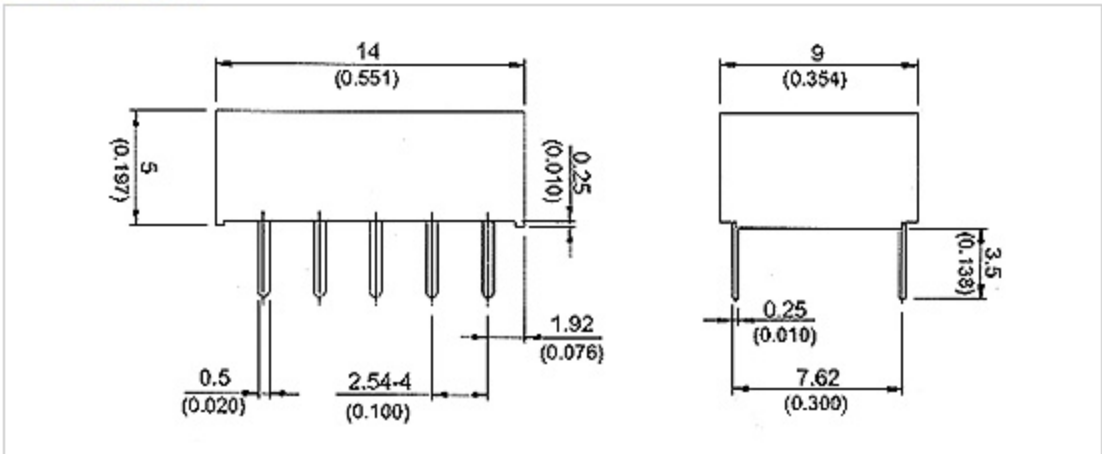
Rated voltage (V)	Rated current ±10% at 23℃ (mA)	Coil resistance ±10% at 23℃(Ω)	Max. continuous voltage at 23℃	Pick up voltage (Max) at 23℃	Drop out voltage (Min) at 23℃	Power consumption at rated voltage
3	33.3	90	180% of rated voltage	75% of rated voltage	75% of rated voltage	approx. 0.1W
5	20	250				
6	16.7	360				
9	11.1	810				
12	8.3	1440				approx. 0.15W
24	6.25	3840				

■ Coil Rating(Double-Winding latching)

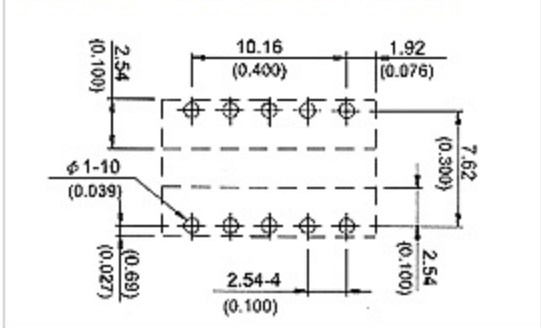
Rated voltage (V)	Rated current ±10% at 23℃ (mA)	Coil resistance ±10% at 23℃(Ω)	Max. continuous voltage at 23℃	Pick up voltage (Max) at 23℃	Drop out voltage (Min) at 23℃	Power consumption at rated voltage
3	66.7	45	160% of rated voltage	75% of rated voltage	75% of rated voltage	approx. 0.2W
5	40	125				
6	33.3	180				
9	22.2	405				
12	16.7	720	130% of rated voltage			approx. 0.3W
24	12.5	1920				

702	702F	702K/702U
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Dimensions_702



P/C Board Pattern (Bottom View)



Wiring Diagram (Bottom View)

