

R413 Subminiature Power Relay



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FEATURES

- High switching capability
- Standard PCB layout
- High sensitive:450mW or 200mW
- High reliability contact
- Outline Dimensions: (20.6×10.5×15.3) mm

CHARACTERISTICS

Insulation resistance		1000MΩ (500VDC)
Dielectric strength	Between coil & contacts	4000VAC 1min
	Between open contact	1000VAC 1min
Operate time (at nomi. ovlt)		≤10ms
Release time (at nomi. ovlt)		≤5ms
Vibration resistance	Functionna	10Hz~55Hz 1.5mm
	Destructive	10Hz~55Hz 1.5mm
Shock resistance	Functionna	10G Min.
	Destructive	100G Min.
Humidity		5%~85% Rh
Ambient temperature		-40°C~85°C
Termination		PCB
Unit weight		Approx 9g

CONTACT DATA

Contact arrangement	1A 1B or 1C
Contact Resistance	100mΩ
Contact material	AgSnO ₂
Mechanical endurance	10,000,000 ops
Electrical endurance	100,000 ops
Contact rating (Res. load)	NO:5A 250VAC/30VDC; 10A/125VAC NC:2A 250VAC; 1A/30VDC; 3A/125VAC
Max switching power (Res. load)	NO: 150 W; 1, 250 VA NC: 30 W; 500 VA
Max switching current	NO:10A/125VAC; NC:3A/125VAC
Max switching voltage	30VDC; 277VAC

COIL

Coil power	0.2W or 0.45W
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COIL DATA (AT 23°C)

Nominal voltage (VDC)	Nominal operating current %10 (mA)	coil resistance 10% (Ω)	max allowable voltage	pick-up voltage (max)	Drop-out voltage (min)	Nominal operating power (W)
3	66.6	45	130% of nominal voltage	75% of nominal voltage	5% of nominal voltage	About 0.2
5	40	125				
6	33.3	180				
9	22.2	400				
12	16.6	720				
18	14.8	1600				
24	8.3	2800	130% of nominal voltage	75% of nominal voltage	5% of nominal voltage	About 0.45
3	150	20				
5	90	55				
6	75	80				
9	50	180				
12	37.5	320				
18	25	720				
24	18.75	1280				

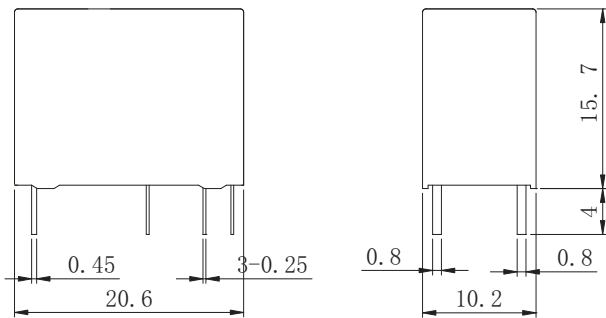
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Ordering information

R413DS / 012 Z 1 R H					
1		2		3 4 5 6	
<p>1 Model: R413DS</p> <p>2 Coil voltage: see coil parameter</p> <p>3 Contact form: H=1A, Z=1C</p> <p>4 Version: 1=sealed</p>			<p>5 Contact material: Nil or R = AgSnO₂</p> <p>6 Coil power: Nil = 0,45W; H = 0,20W</p>		

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

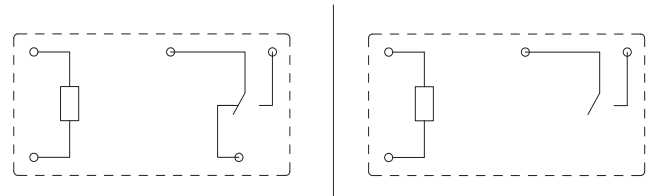
Outline Dimensions



Wiring Diagram(Bottom view

1C

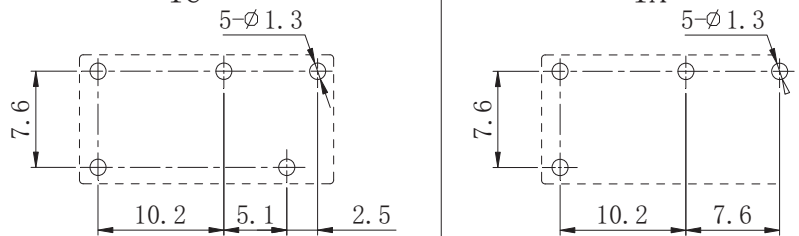
1A



PCB Layout (Bottom view)

1C

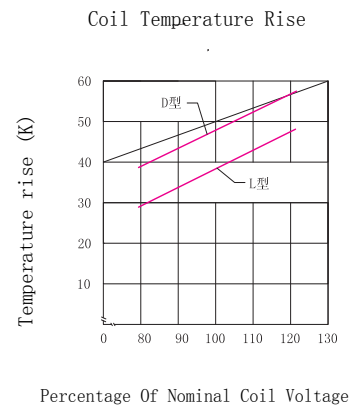
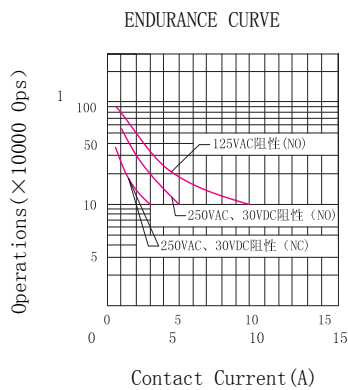
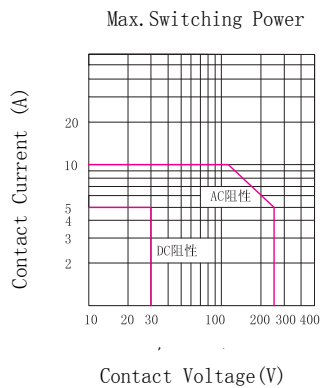
1A



TOLERANCE: ±0.1mm

Outline dimensions hadn't specified tolerance ^φ	
Outline Dimensions ^φ	Tolerance ^φ
≤1 ^φ	± 0.2 ^φ
>1~5 ^φ	± 0.3 ^φ
>5 ^φ	± 0.4 ^φ

CHARACTERISTIC CURVES



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