

# R415 Signal Relay



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## Features

- 1A switching capability
- Standard PCB layout
- 1 transfer contact configuration
- 150mW or 200mW type available
- Outline Dimensions: (12.5×7.5×10) mm

## CONTACT DATA

Contact arrangement	1C - 1A
Contact Resistance	100mΩ (6Vdc 100mA)
Contact material	Silver alloy
Contact rating (Res. load)	1A 125VAC
Max. switching voltage	125VAC
Max. switching power	125VA
Mechanical endurance	10,000,000 ops
Electrical endurance	100,000 ops

## CHARACTERISTICS

Insulation resistance	100MΩ (500VDC)
Dielectric strength	Between coil & contacts 1000VAC 1min
	Between open contact 500VAC 1min
Operate time (at nomi. ovlt)	≤5ms
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~70°C
Termination	PCB
Unit weight	Approx 3.0g

## COIL DATE (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	50	60	130% of nominal voltage	75% of nominal voltage	5% of nominal voltage	About 0.15
5	30	167				
6	25	240				
9	16.6	540				
12	12.5	960				
24	6.25	3840	130% of nominal voltage	75% of nominal voltage	5% of nominal voltage	About 0.2
3	66.6	45				
5	40	125				
6	33.3	180				
9	22.2	400				
12	16.6	720	130% of nominal voltage	75% of nominal voltage	5% of nominal voltage	About 0.36
24	8.3	2800				
3	120	25				
5	71.4	70				
6	60	100				
9	40.9	220	11.25	1600		
12	30	400				
24	11.25	1600				

## COIL

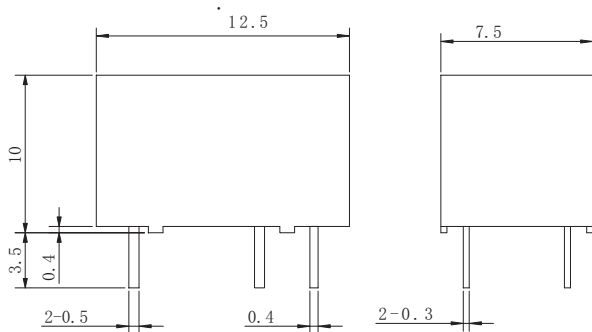
Coil power	0.15W or 0.2W or 0.36
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**Ordering information**

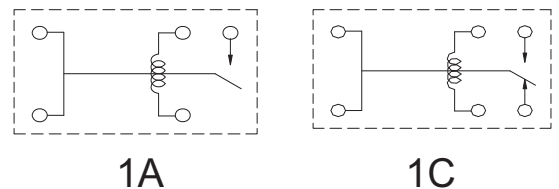
<b>RI F I D / 012 Z F A</b>				
1	2	3	4	5
<p><b>1 Model:</b> R415D</p> <p><b>2 Coil voltage:</b> see coil parameter</p> <p><b>3 Contact form:</b> H=1A, Z=1C</p> <p><b>4 Version:</b> 1=sealed</p>			<p><b>5 Coil power:</b> G = 0,15 W; F = 0,20W; E = 0,36W</p>	

**OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT**

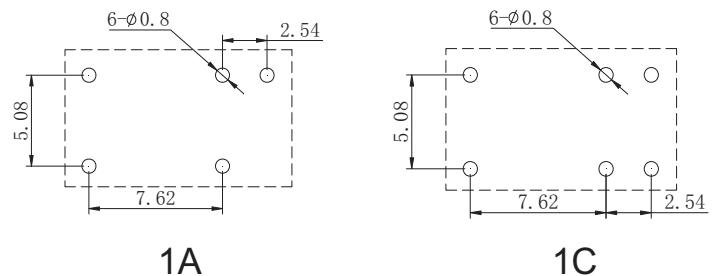
Outline Dimensions



Wiring Diagram (Bottom view)



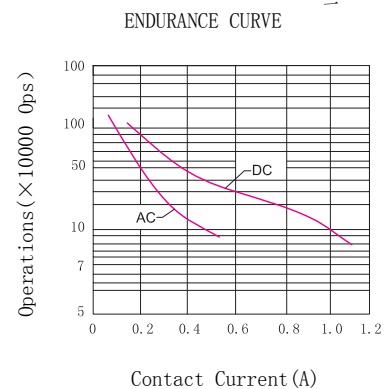
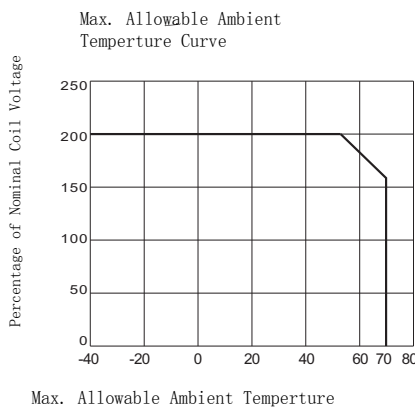
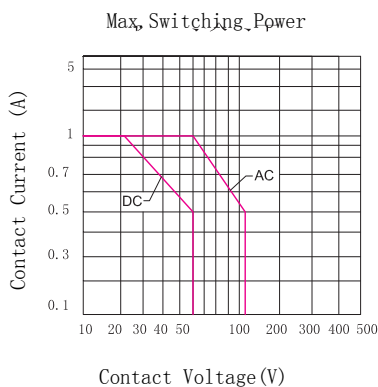
PCB Layout (Bottom view)



TOLERANCE: ±0.1mm

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

**CHARACTERISTIC CURVES**



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