

Features

- Third Generation Signal Relay
- Anti-surge voltage (between coil and contacts):2.5kV
- Conformity EN60950/EN41003
- Adopt bifurcated contact form
- Monostable and magnetically held products available
- Outline Dimensions:(15*7.5*9.4)mm
- Main application:Power protection, automation, communication



■ CHARACTERISTICS

Specifications	Item		
Contact Data	Contact arrangement		2C
	Contact resistance(initial)		≤100mΩ(10mA 30mVDC)
	Contact material		AgNi+Gold plated
Rated value	Rated load(Resistance load)		2A 30VDC
			3A 30VDC
			0.5A 125VAC
	Max.switching voltage		277VAC/220VDC
	Max.switching current		4A
Max.switching capacity		62.5VA/ 90W	
Min.allowing load		10mV 10μA	
Electrical performance	Insulation resistance(initial)		1000MΩ(500VDC)
	Dielectric strength (initial)	Between open contacts	1000VAC,1min
		Between coil&contacts	1500VAC,1min
	Surge voltage	Between open contacts(10/160μs)	1500VAC(FCC part 68)
		Between coil&contacts(2/10μs)	2500VAC (Telecordia)
	Operate time		≤4ms
	Release time		≤4ms
Mechanical performance	Shock resistance	Functional	735m/s ² (75g)
		Destructive	980m/s ² (100g)
	Vibration resistance		10Hz~55Hz 3.3mm DA
Endurance	Mechanical		1×10 ⁷ ops
	Electrical(Room temperature)		2A 30VDC 1×10 ⁵ ops(ON/OFF=1s/9s)
Operate condition	Ambient temperature		-40℃~85℃
	Humidity		5% to 85%
Termination			PCB(DIP Encapsulation)
Unit weight			Approx.2g
Construction			Plastic sealed

■ COIL DATA(23℃)

Nominal Voltage	Operate Voltage VDC	Release Voltage VDC	Rated Current (±10%)	Coil Resistance (±10%)	Nominal Power	Max Voltage
DC 1.5V	≤1.13	≥0.08	93.3mA	16.1Ω	140mW	DC 3.0V
DC 2.4V	≤1.8	≥0.12	58.3mA	41.1Ω		DC 4.8V
DC 3V	≤2.25	≥0.15	46.7mA	64.3Ω		DC 6.0V
DC 4.5V	≤3.38	≥0.23	31.1mA	144.6Ω		DC 9.0V
DC 5V	≤3.75	≥0.25	28.0mA	178.6Ω		DC 10V
DC 6V	≤4.5	≥0.3	23.3mA	257.1Ω		DC 12V
DC 9V	≤6.75	≥0.45	15.6mA	578.6Ω		DC 18V
DC 12V	≤9.0	≥0.6	11.7mA	1028.6Ω		DC 24V
DC 24V	≤18.0	≥1.2	5.8mA	4114.3Ω		DC 48V

■ ORDERING INFORMATION

FH49 -2C S -XXX -DC12V

- ① Type
- ② Contact arrangement:2C= 2 switched contacts
- ③ Construction:S=Plastic sealed
- ④ Customer special code:numbers or letters denote customer's requirements
- ⑤ Coil specification:DC1.5/2.4/3/4.5/5/6/9/12/24V

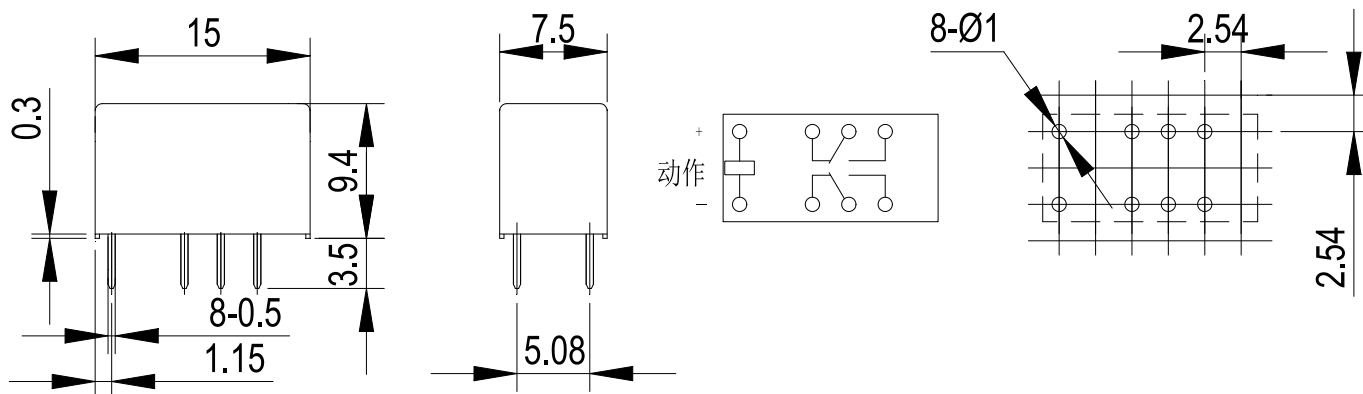
■ OUTLINE DIMENSIONS,WIRING DIAGRAM AND PC BOARD LAYOUT(Unit:mm)

2C

Outline Dimensions

Wiring Diagram
(Bottom view)

PCB Layout
(Bottom view)



Remark:(1)In case of no tolerance shown in outline dimension:outline dimension≤1mm,tolerance should be±0.2mm;outline dimension >1mm and <5mm,tolerance should be ±0.3mm;outline dimension≥5mm,tolerance should be ±0.5mm.

(2) The tolerance without indicating for PCB layout is always ±0.1mm.

■ NOTICE

- ① In order to maintain the initial performance parameters of the relay, please be careful not to drop the product;
- ② The specification is for reference only.Specifications subject to change without notice.