

Features

- 1A switching capability
- High sensitive type,coil power is 150mW
- Standard DIP Construction terminal
- Ultra - small type,gold - plated contacts
- Environment-friendly product(RoHS compliant)
- Outline Dimensions:(12.5×7.5×10)mm
- Main application:Electric power protection, Automation, communication



CHARACTERISTICS

Specifications	Item		
Contact Data	Contact arrangement		1C
	Contact resistance(initial)		≤100mΩ(6VDC 1A)
	Contact material		AgNi+Gold Plating
Rated value	Rated load(Resistance load)		1A 125VAC/30VDC
	Max.switching voltage		125VAC/30VDC
	Max.switching current		1A
	Max.switching capacity		125VA/30W
	Min.allowing load		5VDC 1mA
Electrical performance	Insulation resistance(initial)		1000MΩ(500VDC)
	Dielectric strength (initial)	Between open contacts	750VAC,1 min
		Between coil&contacts	1000VAC,1 min
	Operate time		≤5ms
	Release time		≤5ms
Mechanical performance	Shock resistance	Functional	98m/s ² (10g)
		Destructive	980m/s ² (100g)
	Vibration resistance		10Hz~55Hz 3.3mm DA
Endurance	Mechanical		1×10 ⁷ ops
	Electrical(Room temperature)		1A 125VAC/30VDC 1×10 ⁵ ops(ON/OFF=1s/9s)
Operate condition	Ambient temperature		-30℃~70℃
	Humidity		5% to 85%
Termination			PCB(DIP Encapsulation)
Unit weight			Approx 2.2g
Construction			Plastic sealed

■ COIL DATA(23℃)

■ Standard Type

Nominal Voltage	Operate Voltage VDC	Release Voltage VDC	Rated Current (±10%)	Coil Resistance (±10%)	Nominal Power	Max Voltage
DC 1.5V	≤1.13	≥0.07	132.7mA	11.3Ω	200mW	DC 1.95V
DC 3V	≤2.25	≥0.15	66.7mA	45Ω		DC 3.9V
DC 5V	≤3.75	≥0.25	40mA	125Ω		DC 6.5V
DC 6V	≤4.50	≥0.30	33.3mA	180Ω		DC 7.8V
DC 9V	≤6.75	≥0.45	22.2mA	405Ω		DC 11.7V
DC 12V	≤9.00	≥0.60	16.7mA	720Ω		DC 15.6V
DC 24V	≤18.00	≥1.20	8.3mA	2880Ω		DC 31.2V

■ Sensitive Type

Nominal Voltage	Operate Voltage VDC	Release Voltage VDC	Rated Current (±10%)	Coil Resistance (±10%)	Nominal Power	Max Voltage
DC 1.5V	≤1.2	≥0.07	100mA	15Ω	150mW	DC 1.95V
DC 3V	≤2.4	≥0.15	50mA	60Ω		DC 3.9V
DC 5V	≤4.0	≥0.25	29.9mA	167Ω		DC 6.5V
DC 6V	≤4.8	≥0.30	25mA	240Ω		DC 7.8V
DC 9V	≤7.2	≥0.45	16.7mA	540Ω		DC 11.7V
DC 12V	≤9.6	≥0.60	12.5mA	960Ω		DC 15.6V
DC 24V	≤19.2	≥1.20	6.3mA	3840Ω		DC 31.2V

■ ORDERING INFORMATION

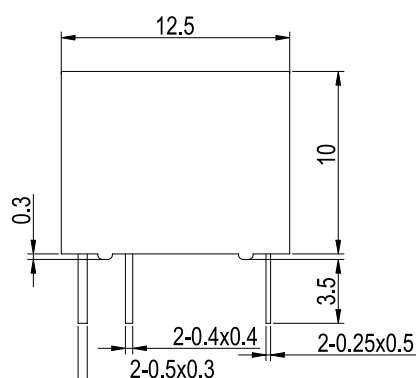
FH13 -1C S L -XXX DC12V

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

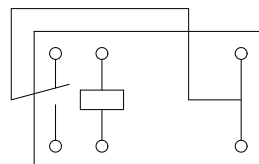
■ OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT (Unit:mm)

1C

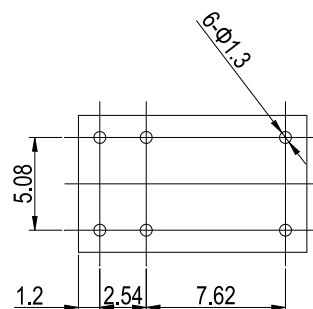
Outline Dimensions



Wiring Diagram
(Bottom view)



PCB Layout
(Bottom view)



Remark: (1) In case of no tolerance shown in outline dimension: outline dimension $\leq 1\text{mm}$, tolerance should be $\pm 0.2\text{mm}$; outline dimension $> 1\text{mm}$ and $< 5\text{mm}$, tolerance should be $\pm 0.3\text{mm}$; outline dimension $\geq 5\text{mm}$, tolerance should be $\pm 0.5\text{mm}$.

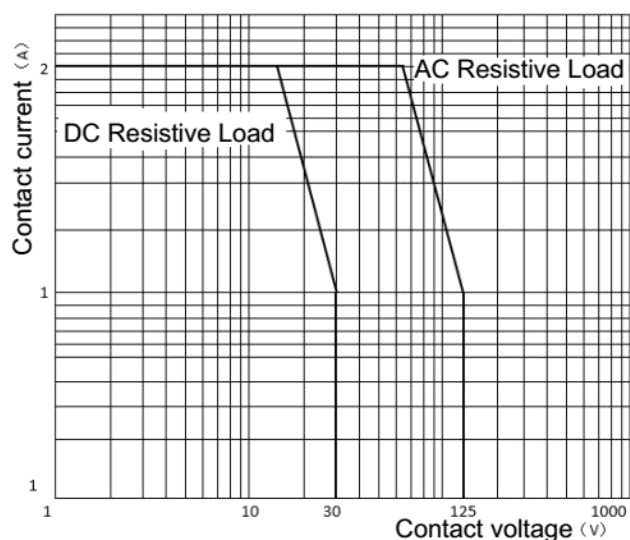
(2) The tolerance without indicating for PCB layout is always $\pm 0.1\text{mm}$.

■ SAFETY APPROVAL RATINGS

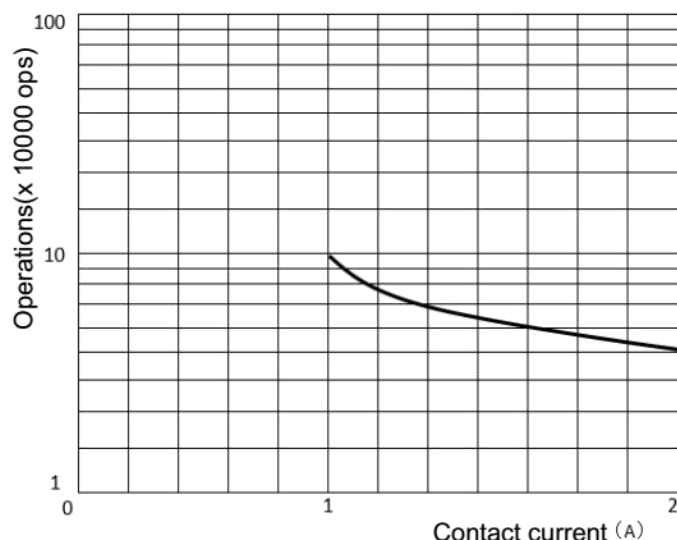
Approval	File No.	Contact arrangement	Contact material	Approved ratings
UL/C-UL	/	/	/	/
TUV	R 50554803	1A	AgNi	1A 125VAC/30VDC 85°C 2A 125VAC/30VDC 85°C
CQC	/	/	/	/

■ PERFORMANCE CURVES

MAXIMUM SWITCHING POWER



ENDURANCE CURVE



■ 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.