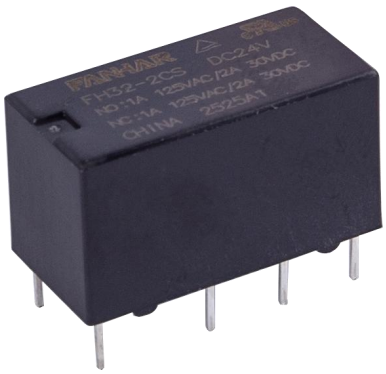
FH32 Signal Relay

Features

- 2A switching capability
- High sensitivity products,coil power is 200mW
- Standard DIP construction terminal
- Ultra - small type、gold plated contact
- Suit for complete machine wave soldering and integral cleaning process
- Environment-friendly product(RoHS compliant)
- Outline Dimensions:(20.2×10.0×11.5)mm
- Main application:Electrical protection、Automation、Communication



■ CHARACTERISTICS

Specifications	Item		
Contact Data	Contact arrangement		2C
	Contact resistance(initial)		≤100mΩ(6VDC 1A)
	Contact material		AgNi+Gold Plating
Rated value	Rated load(Resistance load)		1A 125VAC 2A 30VDC
	Max.switching voltage		277VAC/30VDC
	Max.switching current		2A
	Max.switching capacity		250VA/60W
	Min.allowing load		10mV 10μA
Electrical performance	Insulation resistance(initial)		1000MΩ(500VDC)
	Dielectric strength (initial)	Between open contacts	750VAC,1min
		Between coil&contacts	1500VAC,1min
	Operate time		≤8ms
	Release time		≤5ms
Mechanical performance	Shock resistance	Functional	98m/s^2(10g)
		Destructive	980m/s^2(100g)
	Vibration resistance		10Hz~55Hz 1.5mm DA
Endurance	Mechanical		1×10^{7}ops
	Electrical(Room temperature)		1A 125VAC 1×10^{5}ops (ON/OFF=1s/9s) 2A 30VDC 5×10^{4}ops (ON/OFF=1s/9s)
Operate condition	Ambient temperature		-40℃~85℃
	Humidity		5% to 90%
Termination			PCB(DIP Encapsulation)
Unit weight			Approx.5g
Construction			Plastic sealed

■ COILDATA(23℃)

■ Standard Type

Nominal Voltage	Operate Voltage VDC	Release Voltage VDC	Rated Current (±10%)	Coil Resistance (±10%)	Nominal Power	Max Voltage
DC 3V	≤2.25	≥0.15	66.7mA	45Ω	200mW	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 15V	≤11.25	≥0.75	13.3mA	1128Ω		DC 19.5V
DC 18V	≤13.50	≥0.90	11.1mA	1620Ω		DC 23.4V
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 3V	≤2.25	≥0.15	50mA	60Ω	150mW	DC 3.9V
DC 5V	≤3.75	≥0.25	30mA	166.7Ω		DC 6.5V
DC 6V	≤4.5	≥0.3	25mA	240Ω		DC 7.8V
DC 9V	≤6.75	≥0.45	16.7mA	540Ω		DC 11.7V
DC 12V	≤9	≥0.6	12.5mA	960Ω		DC 15.6V
DC 15V	≤11.25	≥0.75	10mA	1500Ω		DC 19.5V
DC 18V	≤13.5	≥0.9	8.3mA	2160Ω		DC 23.4V
DC 24V	≤18	≥1.2	6.3mA	3840Ω		DC 31.2V

■ ORDERING INFORMATION

FH32 -2C S L -XXX DC5V

① Type

② Contact arrangement:2C=2 sets of switched contacts

③ Construction:S=Plastic sealed

④ Coil power:Nil=Standard, L=Sensitive

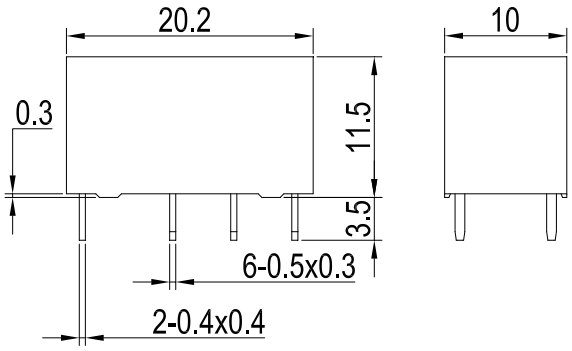
⑤ Customer special code:numbers or letters denote customer's requirements

⑥ Coil specification:DC3/5/6/9/12/15/18/24V

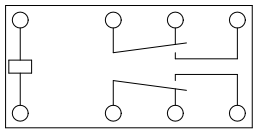
■ OUTLINE DIMENSIONS,WIRING DIAGRAM AND PC BOARD LAYOUT(Unit:mm)

2C

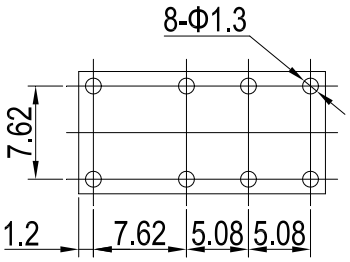
Outline Dimensions



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.

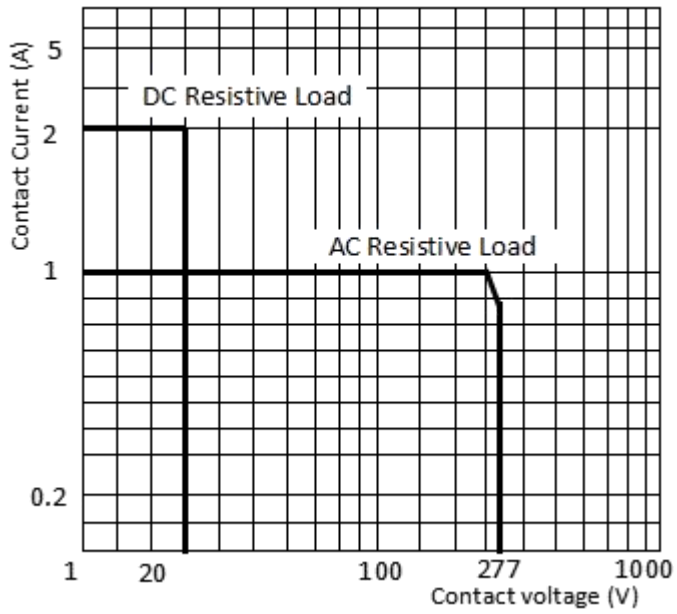
(2) The tolerance without indicating for PCB layout is always ±0.1mm.

■ SAFETY APPROVAL RATINGS

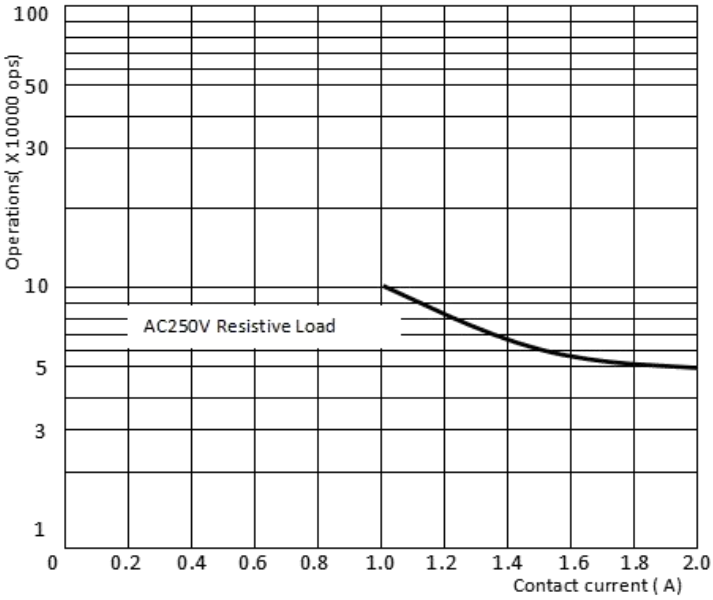
Approval	File No.	Contact arrangement	Contact arrangement	Approved ratings
UL/C-UL	E475405	2C	AgNi	1A 125VAC 85℃ 2A 30VDC 85℃
TUV	R50538502	2C	AgNi	1A 125VAC 85℃ 2A 30VDC 85℃
CQC	CQC22002365874	2C	AgNi	1A 125VAC 85℃ 2A 30VDC 85℃

■ 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.