

Features

- 32A switching capability
- Products with operating temperature of 105°C are available
- UL insulation system:Class F
- Ultra - small type,standard PCB terminals.
- Outline Dimensions:(21.5*16.0*20.6)mm



CHARACTERISTICS

Specifications	Item	FH14T-E	FH14HV-E
Contact Data	Contact arrangement	1A	
	Contact resistance	≤10mΩ(6VDC 20A)	
	Contact material	AgSnO ₂	
Rated load	Rated load(Resistance load)	Standard type:32A 250VAC	
		Sensitive type:26A 250VAC	
	Max.switching voltage	600VAC	
	Max.switching current	Standard type: 32A	
		Sensitive type: 26A	
Max.switching capacity	8864VA		
	7202VA		
Min.allowing load	5VDC 100mA		
Electrical performance	Insulation resistance(initial)	100MΩ(500VDC)	
	Dielectric strength (initial)	Between open contacts	Standard type:1500VAC,1min
		Between coil&contacts	2500VAC,1min
	Operate time	≤15ms	
	Release time	≤10ms	
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 ⁵ ops	
	Electrical(Room temperature)	Standard type:32A 250VAC Sensitive type:26A 250VAC	1×10 ⁴ ops(ON/OFF=1s/9s) 3×10 ⁴ ops(ON/OFF=1s/9s)
Operate condition	Ambient temperature	-40℃~105℃	
	Humidity	5% to 85%	
Termination		PCB	
Unit weight		Approx.16g	
Construction		Plastic sealed, Flux proofed	

COIL DATA(23°C)

■ Standard type

Nominal Voltage	Operate Voltage VDC	Release Voltage VDC	Rated Current (±10%)	Coil Resistance (±10%)	Nominal Power	Max Voltage
DC 5V	≤4	≥0.25	561mA	8.9Ω	2800mW	DC 5.5V
DC 12V	≤9.6	≥0.6	235mA	51Ω		DC 13.2V
DC 24V	≤19.2	≥0.12	116mA	206Ω		DC 26.4V
DC 48V	≤38.4	≥0.24	58mA	823Ω		DC 52.8V

Note: Holding voltage: 32% - 36%Un (ambient temperature 105°C)

■ Sensitive type

Nominal Voltage	Operate Voltage VDC	Release Voltage VDC	Rated Current (±10%)	Coil Resistance (±10%)	Nominal Power	Max Voltage
DC 5V	≤4	≥0.25	333mA	15Ω	1667mW	DC 5.5V
DC 12V	≤9.6	≥0.6	139mA	86Ω		DC 13.2V
DC 24V	≤19.2	≥0.12	69mA	345Ω		DC 26.4V
DC 48V	≤38.4	≥0.24	34mA	1380Ω		DC 52.8V

Note: Holding voltage: 50% to 55%Un (ambient temperature 85°C)

ORDERING INFORMATION

FH14HV-E
FH14T-E -BG -1A 1 S T L -XXX DC12V

① Model :FH14HV-E/FH14T-E

② Contact clearance: None = Standard clearance (1.8mm)

BG= Large clearance (2.4mm)

③ Contact form :1A=1open contacts

④ Installation pin positions :1=1 type pin position (single-pin led out) 2=2 type pin position (double-pin led out, sensitive type only)

⑤ Construction(1):Nil=Flux proofed,S=Plastic sealed

⑥ Contact material :T=AgSnO2

⑦ Coil power consumption: None = standard type L= Sensitive type

⑧ Customer special code:numbers or letters denote customer's requirements

⑨ Coil specification :DC/5/12/24/48V

(1) When used in clean environment(excluding H₂S,SO₂,NO₂,dust and other pollutants), it is recommended to choose the Flux proofed type;When used in unclean environment(contain H₂S,SO₂,NO₂,dust and other pollutants), it is recommended to choose the Plastic sealed.

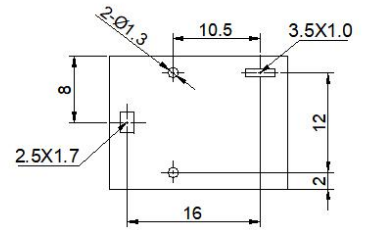
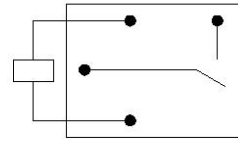
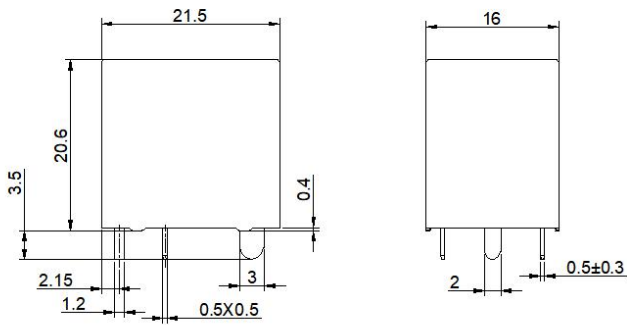
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT (Unit:mm)

FH14HV-E (Type 1) 1A

Outline Dimensions

Wiring Diagram
(Bottom view)

PCB Layout
(Bottom view)

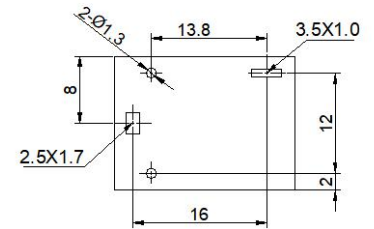
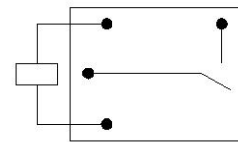
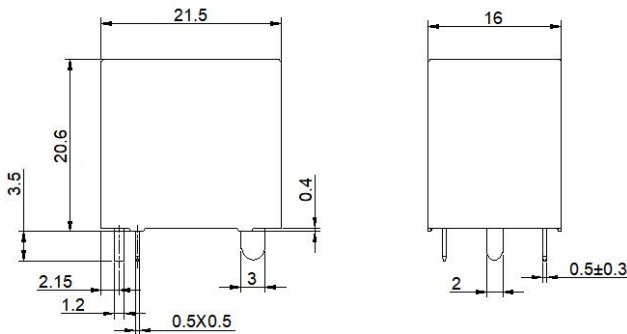


FH14T-E (Type 1) 1A

Outline Dimensions

Wiring Diagram
(Bottom view)

PCB Layout
(Bottom view)



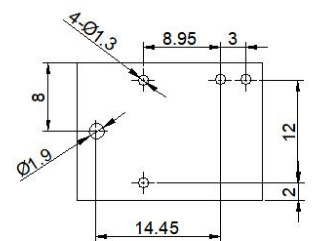
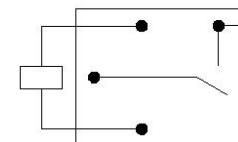
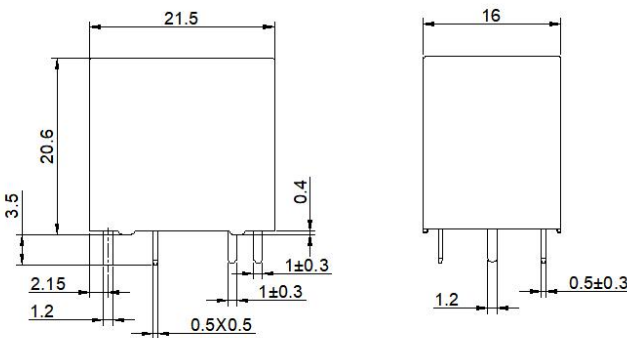
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT (Unit:mm)

FH14HV-E (Type 2) 1A

Outline Dimensions

Wiring Diagram
(Bottom view)

PCB Layout
(Bottom view)

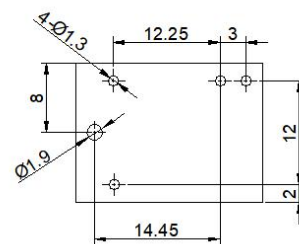
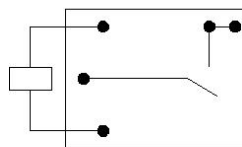
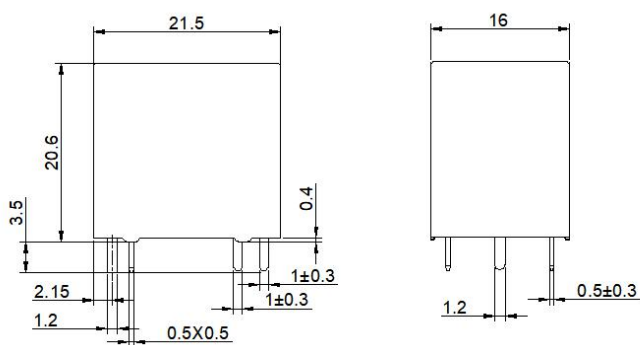


FH14T-E (Type 2) 1A

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 material	Approved ratings
UL/C-UL	Certification in progress	AgSnO ₂	Standard type:
			NO: 32A 250VAC/277VAC 85°C 10k
			NO: 25A 250VAC/277VAC 85/105°C 10k
			NO: Connect 16A, carry 32A, disconnect 16A 250VAC/600VAC 85/105°C 10k
TUV	Certification in progress	AgSnO ₂	Sensitive type:
			NO: 26A 277VAC/250VAC 85°C 30k
			Standard type:
			NO: 32A 250VAC/277VAC 85°C 10k
CQC	Certification in progress	AgSnO ₂	NO: 25A 250VAC/277VAC 85/105°C 10k
			NO: Connect 16A, carry 32A, disconnect 16A 250VAC/600VAC 85/105°C 10k
			Sensitive type:
			NO: 26A 277VAC/250VAC 85°C 30k

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.