

Feature explanation

- Maximum 20A contact switching capability.
- Low power consumption 0.2W / 0.36W / 0.6W / 0.8W
- Ultra-compact, standard printed circuit board design.
- Dimensions: (15.5*12.2*13.9)mm



Performance Overview

Specifications	project	
Contact point parameters.	Contact configuration.	1A、1B、1C
	Contact resistance (initial value)	≤100mΩ(6VDC1A)
	Contact material	AgNi、AgSnO ₂
Rated load.	Load control (resistance-based).	NO:5A 250VAC/14VDC 10A 250VAC/14VDC 20A 14VDC NC:5A 250VAC/14VDC
	Maximum switching voltage.	250VAC/30VDC
	Maximum switching current.	20A
	Maximum conversion power.	1250VA/280W
Electrical performance.	Insulation resistance (initial value)	100MΩ(500VDC),1minute
	Medium withstand voltage. (Initial value)	Disconnect the contacts. 500VAC,1 minute
		Between the contact and the coil. 500VAC,1 minute
	Closing time.	≤10ms
	Release time.	≤5ms
Mechanical properties	to attack	stability 98m/s ² (10G)
		strength 980m/s ² (100G)
	vibration 10Hz~55Hz1.5mm Double amplitude.	
Durability.	Mechanics 1×10 ⁶ second	
	Electrical (room temperature).	10A 250VAC 1×10 ⁵ second(ON/OFF=1s/1s)
		20A 14VDC 1×10 ⁵ second(ON/OFF=2s/3s)
Conditions of Use	environmental temperature	-40℃~105℃
	humidity	5% to 90%
Termination method.		Printed board type.
weight		Approximately6.0g
Packaging method.		Plastic-coated type, anti-soldering formulation.

■ Coil specifications (23℃)

Rated voltage.	Closing voltage VDC	Release voltage VDC	Rated current (±10%)	Coil resistance (±10%)	Rated power.	Maximum permissible voltage.
DC 5V	≤3.75	≥0.3	72mA	69.4Ω	Approximately 0.36W	DC 6.5V
DC 9V	≤6.75	≥0.54	40mA	225Ω		DC 11.7V
DC 12V	≤9.0	≥0.72	30mA	400Ω		DC 15.6V
DC 24V	≤18.0	≥1.44	15mA	1600Ω		DC 31.2V
DC 5V	≤3.75	≥0.3	120mA	41.6Ω	Approximately 0.6W	DC 6.5V
DC 9V	≤6.75	≥0.54	66.6mA	135Ω		DC 11.7V
DC 12V	≤9.0	≥0.72	50mA	240Ω		DC 15.6V
DC 24V	≤18.0	≥1.44	25mA	960Ω		DC 31.2V
DC 5V	≤3.75	≥0.3	160mA	31.25Ω	Approximately 0.8W	DC 6.5V
DC 9V	≤6.75	≥0.54	88.8mA	101.25Ω		DC 11.7V
DC 12V	≤9.0	≥0.72	66.6mA	180Ω		DC 15.6V
DC 24V	≤18.0	≥1.44	33.3mA	720Ω		DC 31.2V
DC 5V	≤3.75	≥0.3	40mA	125Ω	Approximately 0.2W	DC 6.5V
DC 9V	≤6.75	≥0.54	22.2mA	405Ω		DC 11.7V
DC 12V	≤9.0	≥0.72	16.6mA	720Ω		DC 15.6V
DC 24V	≤18.0	≥1.44	8.3mA	2880Ω		DC 31.2V
DC 3V	≤2.25	≥0.18	150mA	20Ω	Approximately 0.45W	DC 4.5V
DC 5V	≤3.75	≥0.3	90mA	55.5Ω		DC 6.5V
DC 9V	≤6.75	≥0.54	50mA	180Ω		DC 11.7V
DC 12V	≤9.0	≥0.72	37.5mA	320Ω		DC 15.6V
DC 24V	≤18.0	≥1.44	18.8mA	1280Ω		DC 31.2V

■ Order information.

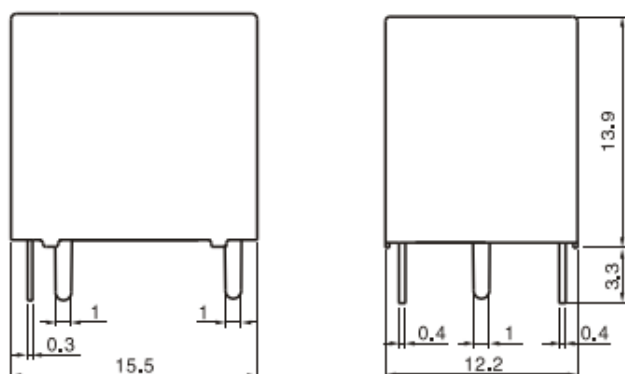
	RA	- X	- X	X	X	-X	-XX
· Product model.							
· Sealing configuration: SS-Open type. SH -Sealed type.							
· Number of contact groups.: Contact Pole 1—1 pole							
· Coil specifications (V DC) : 05 09 12 18 24 36 48							
· Rated power: D standard power.							
· Contact configuration.: Z—1 Form Z type M—1 Form A type B-1Form B type							
· Unique identifier: Customer Code							

(1)When used in a clean environment (free from pollutants such as H₂S, SO₂, NO₂, and dust), it is recommended to choose the anti-soldering formulation. For use in polluted environments (containing H₂S, SO₂,NO₂, and dust), it is suggested to opt for the plastic-sealed type. Please contact our company if you need to perform a comprehensive cleaning or surface treatment.

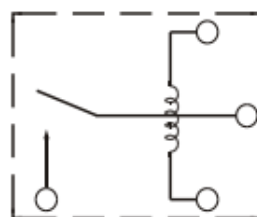
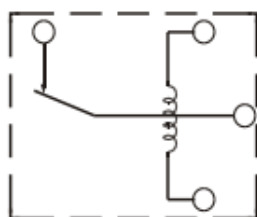
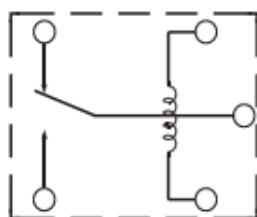
(2)In situations where relays generate significant surge currents upon the activation of their contacts, it is recommended to use AgSnO₂ contact materials.

■ Dimensions, wiring, and installation specifications (unit: mm).

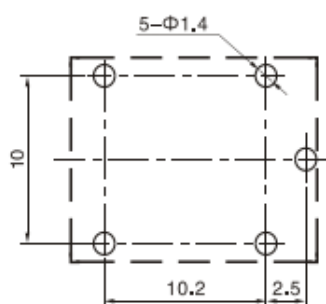
安装孔位图 (底视图) 接线图 (底视图)
PCB Layout (Bottom View) Wiring Diagram (Bottom View)



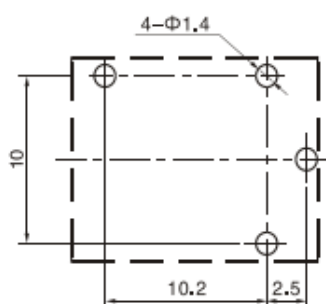
未标注尺寸公差:
< 1mm: $\pm 0.2\text{mm}$
1~5mm: $\pm 0.3\text{mm}$
> 5mm: $\pm 0.4\text{mm}$
注: 1、引出脚尺寸为预焊前尺寸
2、安装孔尺寸公差: $\pm 0.1\text{mm}$



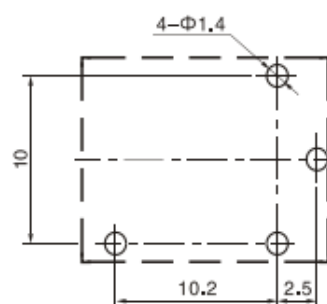
接线图(底视图)



1c



1b



1a

安装孔位图(底视图)

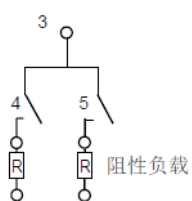


图1

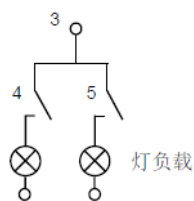
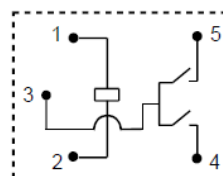


图2



2a

Note: (1) The tolerance of size is $\pm 0.2\text{mm}$ when the size is $\leq 1\text{mm}$; When the external dimension is $1\text{mm} \sim 5\text{mm}$, the tolerance is $\pm 0.3\text{mm}$; When the external dimension $\geq 5\text{mm}$, the tolerance is $\pm 0.5\text{mm}$.

(2) The installation dimensions do not specify any tolerance, which is $\pm 0.1\text{mm}$.

■ Security authentication.

Type of certification.	Certification number.	Contact configuration.	Contact material.	Authentication load.		
TUV	R50606200	1A(NO)	AgNi、AgSnO ₂	5A	250VAC/14VDC	85℃
				10A	250VAC/14VDC	85℃
				20A	14VDC	85℃
		1B(NC)		5A	250VAC/14VDC	85℃
CQC	CQC23002402066	1A(NO)	AgNi、AgSnO ₂	5A	250VAC/14VDC	85℃
				10A	250VAC/14VDC	85℃
				20A	14VDC	85℃
		1B(NC)		5A	250VAC/14VDC	85℃

■ Note

2. In environment where harmful gases such as H₂S, SO₂, or NO₂ are present, it is recommended to use fully sealed products.
3. When feasible, opt for products that are resistant to soldering paste.
4. If customers need to use ultrasonic equipment to clean PCBs and relays, they must opt for fully sealed products.
5. To maintain the initial performance parameters of the relays, please be careful not to drop the product.
6. This product specification sheet is provided solely for customer selection purposes. Any changes will not be notified in advance.