

962 POWER RELAY

SUBMINIATURE HIGH POWER RELAY

- ◆ 20A switching capability
- ◆ Dielectric strength between coil and contacts 5kV
- ◆ Creepage distance: 8mm
- ◆ UL insulation grade: Class F



Contact Data

Contact Arrangement	1A
Contact Resistance	100mΩ(1A 6VDC)
Contact Material	AgSnO ₂ , AgCdO, AgNi alloy
Contact Rating	17A 250VAC
Max. Switching Voltage	250VAC
Max. Switching Current	20A
Max. Switching Power	5000VA
Mechanical Endurance	1*10 ⁷ ops
Electrical Endurance	1*10 ⁵ ops

Characteristics

Insulation Resistance	1000MΩ(500VDC)
Dielectric Strength b/w	Coil&Contacts: 5000VAC 50/60Hz 1min
	Open Contacts: 1000VAC 50/60Hz 1min
Shock Resistance	Functional: 98m/s ² (10G)
	Destructive: 980m/s ² (100G)
Vibration Resistance	10Hz~55Hz 1.5mm DA
Humidity	≤85% (at35°C)
Ambient Temperature	-40°C~105°C
Termination	Standard : PCB+QC ; P : PCB
Unit Weight	Approx. 15g
Construction	Plastic Sealed, Flux Proofed

Coil Data

The parameters listed are the initial values measured in the standard state, if the environmental state changes will have an impact on the actual parameters The standard state is: temperature: 23°C±5°C, humidity: 25%-75%

Nominal Voltage (VDC)		Coil Resistance (Ω±10%)	Pick-up Voltage VDC	Drop-out Voltage VDC	Coil Power (W)	Pick-up Time (ms)	Drop-out Time (ms)
Nominal	Max. (at85°C)		Nominal Voltage 75%	Nominal Voltage 10%			
3	4.5	16.7	2.25	0.30	0.54	≤20	≤10
5	7.5	46.3	3.75	0.50			
6	9	66.7	4.50	0.60			
9	13.5	150	6.75	0.90			
12	18	167.7	9.00	1.20			
18	27	600	13.50	1.80			
24	36	1066.7	18.00	2.40			
48	72	4266.7	36.00	4.80			

Soldering Conditions

Wave Soldering	260±5°C 3-5s (sec)
Soldering Resistance	Must be free from any abnormality in both the construction and characteristics after the terminals are dipped into solder at 260±5°C for 10 seconds and 350±5°C for 3 seconds and then left in room temperature and humidity for 2 hours

► Ordering Information

	962	- 12VDC	- SL	- A	- X	P
Type						
Coil Voltage	3, 5, 6, 9, 12, 18, 24, 48					
Construction	SL : Plastic Sealed Nil : Flux Proofed					
Contact Form	A: 1 Form A					
Ambient Temp	X : 105°C Nil : 85°C					
Termination	P : PCB Nil : PCB+QC					

*1) We suggest to choose plastic sealed types and validate it in real application for an unclean environment (with contaminations like H₂S, SO₂, NO₂, dust, etc), and verified by using it in real situations ;

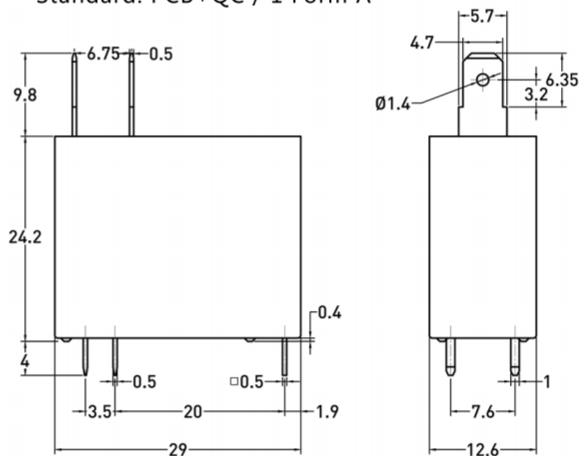
2) Contact is recommended for suitable condition and specifications if water cleaning or surface process is involved in assembling relays on PCB ;

3) AgSnO₂ material contacts are recommended for application scenarios where capacitive loads, lamp loads, motor load lamps generate high inrush currents at the moment of relay turn-on ;

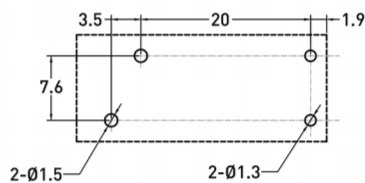
4) If customers have any special requirements, they need to contact our company for evaluation and then choose the corresponding product type according to the characteristics.

► Outline Dimensions, PCB Layout and Wiring Diagram (Unit : mm)

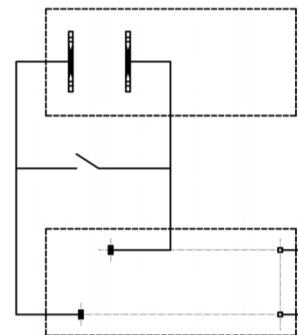
Standard: PCB+QC / 1 Form A



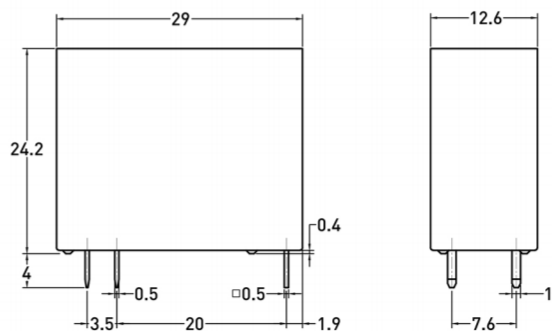
PCB Layout



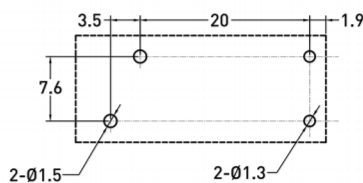
Wiring Diagram



P : PCB / 1 Form A



PCB Layout



Wiring Diagram

