

 <b>WANJIA</b> Relays for advanced technology	<b>MINIATURE PCB TYPE POWER RELAY</b>	<b>WJ111- RELAYS</b>
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- Compact, high capacity relay
- Size: 23(W) x 16(D) x1 0.2(H)mm; Capacity:15A 120VA cos=1
- Isolation distance 4mm
- Low power consumption 200mW
- Complete sealed type available if required

## SPECIFICATIONS

### Contact

Arrangement	1A
Contact Material	Silver alloy
Contact Resistance (By voltage drop 6V 1A)	Max.100mΩ
Rating	
Resistive load (cosφ=1)	15A 125VAC 10A 250VAC 10A 24VDC
Inductive load (cosφ=0.75 - 0.8)	5A 125VAC 5A 24VDC
Max. Switching current	15A
Max. Switching power	1800VA
Max. Switching voltage	265VAC 30VDC
Expected life(min.ope)	
Mechanical(at 120 cpm)	1×10 <sup>7</sup>
Electrical (at 20 cpm)	1×10 <sup>5</sup>

### Characteristics

Operate Time	Max. 15msec.	
Release Time	Max. 8msec.	
Operating humidity	45 to 85% RH	
Initial breakdown voltage Between coil & contact	2500VAC (50/60Hz)for 1 min.	
Between open contacts	750VAC (50/60Hz) for 1 min.	
Insulation Resistance	Min. 1000MΩ (500 VDC)	
Ambient temperature	-40°C ~ +80°C	
Shock Resistance	Functional	Min. 10G
	Destruction	Min. 100G
Vibration Resistance	Functional	10 to 55 Hz at double Amplitude of 1.5mm
	Destruction	10 to 55 Hz at double Amplitude of 1.5mm
Insulation withstand voltage	5000V 1.2&time;50μs(between coil and contacts)	
Unit weight	Approx.9.5g	

### Coil

Nominal operating power	0.20W
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## TYPICAL APPLICATION

Domestic appliance, office machines Air conditioners

## ORDERING INFORMATION

**WJ111 - 1 C - 5V**  
**1 2 3 4**

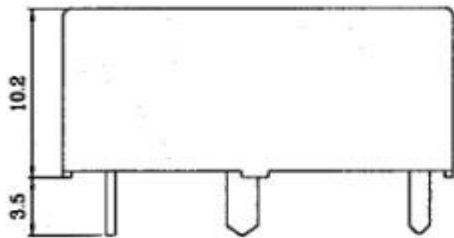
Type	Number of pole	Contact form	Coil voltage(DC)
WJ106	1:1pole	A: 1 form A B: 1 form B C: 1 form C	5,6,9, 12,24,48V

# COIL DATA (at 20°C)

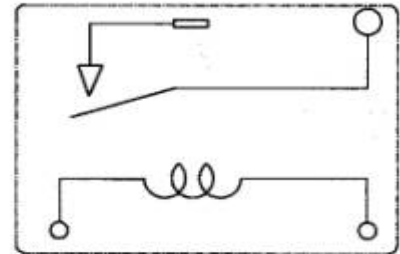
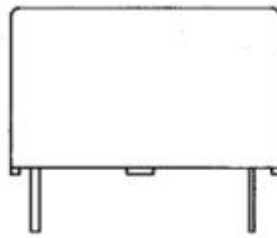
Nominal Voltage (VDC)	Coil Resistance ( $\Omega$ ) $\pm$ 10%	Power Consumption (W)	Pull-in Voltage (VDC)	Drop-out Voltage (VDC)	Max.Allowable Voltage (VDC)
3	45	0.2	75%Max.	5%Min.	130% of nominal Voltage
5	125				
6	180				
9	400				
12	720				
18	1620				
24	2800	0.25			
48	9200				

## DIMENSIONS

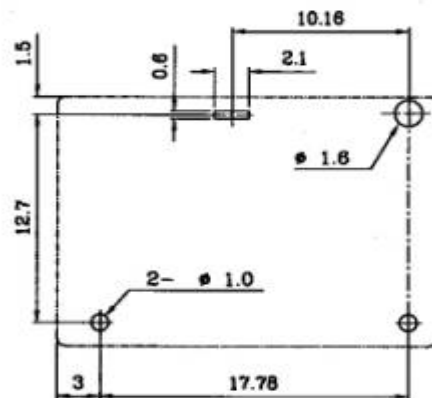
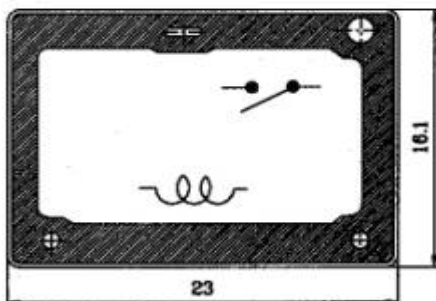
Unit: mm



(BOTTOM VIEW)



(BOTTOM VIEW)



Note: The relative changes for the specification will not be advised in the future.