



# WANJIA

Relays for advanced technology

## ULTRA-MINIATURE PC BOARD TYPE POWER RELAYS

## WJ118-RELAYS



- 20A Switching capabilities
- Subminiature,stand PC layout
- High resistance to vibration
- Low power consumption 0.6W only.
- Main Application in Automotive Industry

### SPECIFICATIONS

#### Contact

Arrangement	1A; 1B; 1C
Contact Material	Silver alloy
Contact Resistance (By 6V 1A)	Max.100mΩ
Rating	
Nominal switching capacity	5A 250VAC
Resistive load	7A 125VAC 20A 14VDC
Max. Switching current	20A
Max. Switching current	35A/2min, 25A/1h
Inrush current	Max.60A
Expected life(min.ope)	
Mechanical(at 180 cpm)	$1 \times 10^7$
Electrical (at 20 cpm)	$1 \times 10^5$

#### Characteristics

Operate Time	Max.10msec.	
Release Time	Max.5msec.	
Initial breakdown voltage		
Between coil & contact	500VAC (50/60Hz)for 1 min	
Between open contacts	500VAC (50/60Hz)for 1 min	
Insulation Resistance	Min.1000MΩ (500VDC)	
Ambient temperature	-40°C ~ +85°C	
Operating humidity	35 to 95% RH	
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
Unit weight	Approx.3.7g	

#### Coil DATE

Coil Consumption	sensitive:0.6W
Coil Voltage	3 - 48VDC
Coil Resistance	see COIL SPECIFICATION below

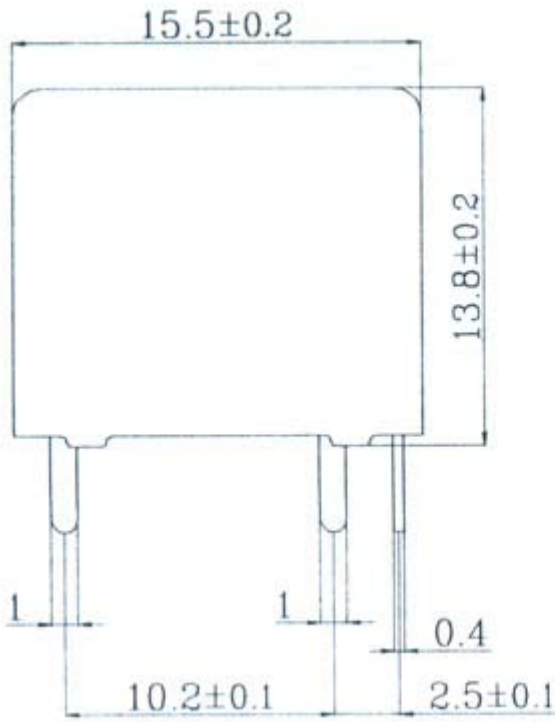
#### COIL SPECIFICATION (at 20°C)

Nominal Voltage (VDC)	Coil Resistance (Ω)±10%	Nominal operating power (W)	Pick-up Voltage (VDC)	Drop-out Voltage (VDC)	Max.Allowable Voltage (VDC)
3	15	abt 0.60	75% Max.	5% Min.	130% of nominal Voltage
5	41.6				
6	60				
9	135				
12	240				
18	600				
24	960				
48	3840				

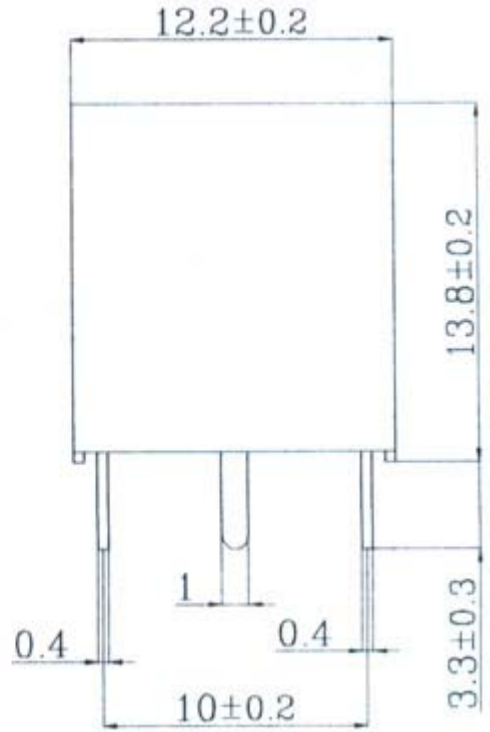
#### ORDERING INFORMATION



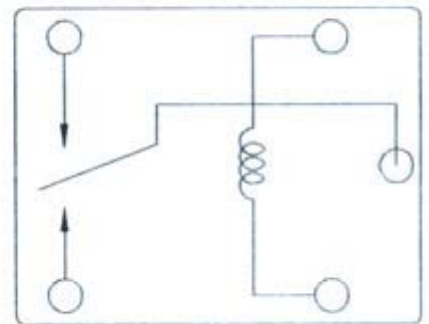
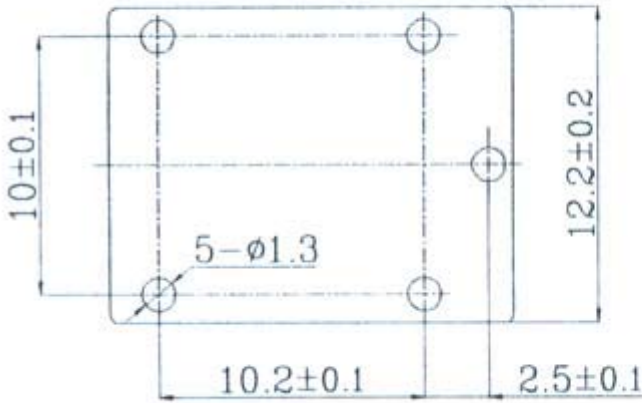
① Type	② Number of pole	③ Contact form	④ Coil voltage(DC)
WJ118	1:1pole	A : form A B : form B C : form C	3, 5, 6, 9 12, 18, 24V, 48



**BOTTOM VIEW**



**BOTTOM VIEW**



**pattern of printing**



**Packing**



MEAS: 360x255x240mm  
 100pcs per plastic tray;  
 5pcs plastic trays per inner carton;  
 4pcs inner carton per outer carton;  
 2000pcs Relays for total per outer carton;  
 weight: Approx 13.5Kg;

**Quality policy:**

Today's quality is our future market;  
 Our goal is pursuing Vendor satisfaction.

**Environmental policy:**

Keeping the system safe, Abiding by laws;  
 Innovation in technology, Prevention of pollution;  
 Advertising & education, Continuous improvement.