 <p style="font-size: 2em; font-weight: bold; margin: 0;">WANJIA</p> <p style="margin: 0;">Relays for advanced technology</p>	POWER PCB RELAY	WJ105 SERIES
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- Ultra Miniature Size
- 10A, 5A switching Capability
- SPST-NO and SPDT configuration
- Surge resistiveness of 5000V
- Sealing Construction.
- UL/C-UL recognized.

SPECIFICATIONS

Contact

Item \ Type	WJ105 (0.45W)	WJ105 (0.2W)
Arrangement	1 A, 1C	
Contact Material	Silver alloy	
Contact Resistance (By voltage 6V 1A)	Max.100m Ω	
UL/C-UL Rating		
Resistive load (cos φ =1)	10A 120VAC 5A 250VAC 5A 28VDC	5A 120VAC 3A 250VAC 3A 28VDC
Inductive load (cos φ =0.75~0.8)	1.5A 250VAC 1.5A 28VDC	1A 250VAC 1A 28VDC
Max. Switching voltage	265VAC	30VDC
Max. Switching current	10A	5A
Max. Switching power	1200VA 150W	720VA 90W
Expected life(min.ope)		
Mechanical(at 120cpm)	1×10 ⁷	
Electrical (at 20 cpm)	1×10 ⁵	

Characteristics

Item \ Type	WJ105 (0.45W)	WJ105(0.2W)
Operate Time	Max.10msec.	Max.15msec.
Release Time	Max.4msec.	
Operating humidity	45 to 85% RH	
Initial breakdown voltage		
Between coil & contact	300VAC (50/60Hz)for 1 min.	
Between open contacts	750VAC (50/60Hz)for 1 min.	
Insulation Resistance	Min. 1000M Ω (500 VDC)	
Ambient temperature	-30℃ ~+55℃	-30℃ ~+80℃
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 1.2×50 μ s	
Unit weight	Approx.9g	

Nominal operating power	0.2 to 0.45W
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TYPICAL APPLICATION

Openers, Emergency lighting equipment, air conditioners.
Home appliances, Programmable controllers, Garage door etc

ORDERING INFORMATION

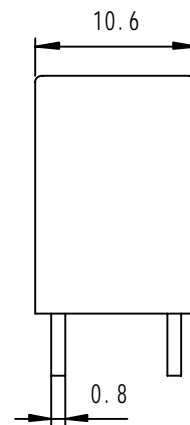
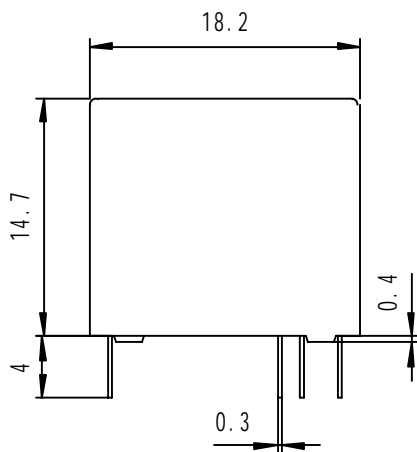
e.g.

WJ105	1 A	12VDC	720 Ω	Nil: 0.45W coil power 45Ω,125Ω,180Ω,400Ω, 720Ω, 2800Ω, 11520Ω: 0.2W coil power Coil Voltage: DC: 3, 5, 6, 9, 12, 24, 48V Contact Arrangement: 1A: SPST-NO 1C: SPDT Relay Series
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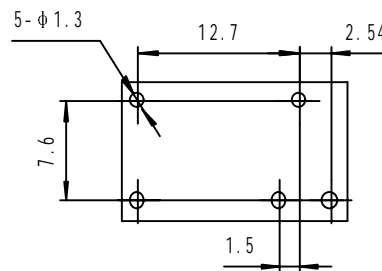
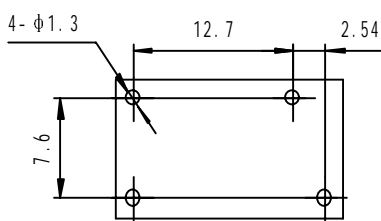
COIL SPECIFICATION (at 20°C)

Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance (Ω) \pm 10%	Power Consumption (W)	Pull-in Voltage (VDC)	Drop-out Voltage (VDC)	Max.Allowable Voltage (VDC)
3	150.0	20	0.45	75% Max.	5% Min.	130% of nominal voltage
5	91.0	55				
6	75.0	80				
9	50.0	180				
12	37.5	320				
24	18.8	1280				
48	9.4	5100	0.20	75% Max.	5% Min.	130% nominal voltage
3	67.0	45				
5	40.0	125				
6	33.3	180				
9	22.5	400				
12	16.7	720				
24	8.16	2800				

DIMENSIONS (Unit : mm)

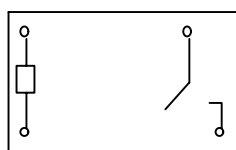


PCB LAYOUT (T=2.52 \pm 0.02mm)



SCHEMATIC

1A (SPST-NO)



1C (SPDT)

