



ULTRA-MINIATURE
PC BOARD TYPE
POWER RELAY

WJ103-RELAYS



- Ultra-small type with dimensions.
- High sensitivity: 200mW nominal operating power
- Sealed type available
- Low coil power consumption

SPECIFICATIONS

Contact

	WJ103
Arrangement	1 Form C
Contact Material	Silver alloy
Contact Resistance (By voltage 6V 1A)	Max.100mΩ
Rating	3A 120VAC/24VDC
Resistive load (Cosφ=1)	1A 120VAC/24VDC
Inductive load (Cosφ=0.75~0.8)	0.3A 120VAC 0.3A 24VDC
Max. Switching voltage	120VAC 60VDC
Max. Switching current	3A
Max. Switching power	600VA 120W
Expected life (Min. ope)	
Mechanical (at 120 cpm)	1×10 ⁷
Electrical (at 20 cpm)	1×10 ⁵

Characteristics

	WJ103(0.36W)	WJ103(0.2W)
Operate Time	Max.8msec.	Max.10msec.
Release Time	Max.4msec.	
Operating humidity	45 to 85% RH	
Initial breakdown voltage Between coil & contact	500VAC (50/60Hz)for 1 min.	
Between open contacts	500VAC (50/60Hz)for 1 min.	
Insulation Resistance	Min.100MΩ (500 VDC)	
Ambient temperature	-30°C~+60°C	-30°C~+75°C
Temperature rise(Max.)	45deg.	25deg.
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.3.5g	

Coil

Nominal operating power	0.2 to 0.45W
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TYPICAL APPLICATION : 1.Telecommunication. 2.Domestic appliance.
3.Office machines. 4.Audio equipment,etc.

ORDERING INFORMATION

WJ103- 1 C - 12VDC 25Ω

① ② ③ ④ ⑤

①Type	②Number of pole	③Contact Arrangement	④Coil Voltage (DC)	⑤Coil Resistance
WJ103	1 : 1pole	A: 1 Form A B: 1 Form B C: 1 Form C	3, 5, 6, 9, 12, 24V	25,70,100,220,400,1600 : 0.36W 45,120,180,400,700,2280 : 0.2W Nil : 0.45W

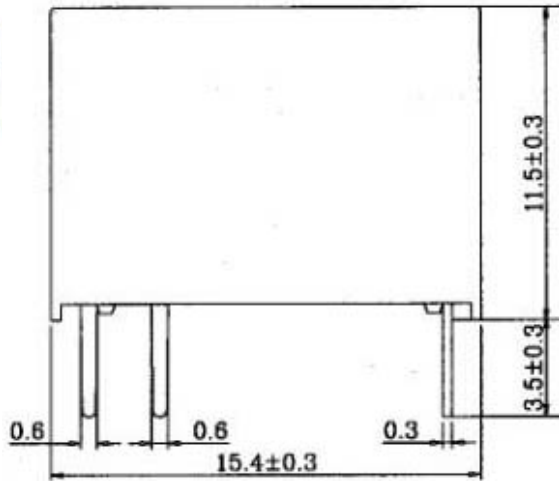


COIL DATA (at 20°C)

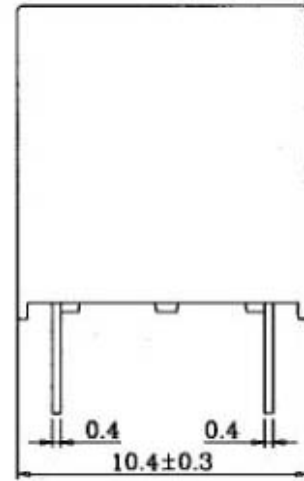
Nominal Voltage (VDC)	Pick-up Voltage VDC(Max.)	Drop-out Voltage VDC(Min.)	Coil Resistance (Ω)±10%	Nominal operating Power (W)	Coil Resistance (Ω)±10%	Nominal operating Power (W)	Max.Allowable Voltage
3	2.25	0.15	25	0.36	45	0.2	130% of nominal Voltage
5	3.75	0.25	70		120		
6	4.50	0.30	100		180		
9	6.75	0.45	220		400		
12	9.00	0.60	400		700		
24	18.00	1.20	1600		2280		

DIMENSIONS

Unit: mm



(BOTTOM VIEW)



(BOTTOM VIEW)

