



Relays for advanced technology

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

Contact

	WJ103
Arrangement	1 Form C
Contact Material	Silver alloy
Contact Resistance (By voltage 6V 1A)	Max. 100mΩ
Rating	3A
Resistive load (Cosφ=1)	120VAC/24VDC 1A
Inductive load (Cosφ=0.75 ~ 0.8)	120VAC/24VDC 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℃ ~ +60℃	-30℃ ~ +75℃
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	

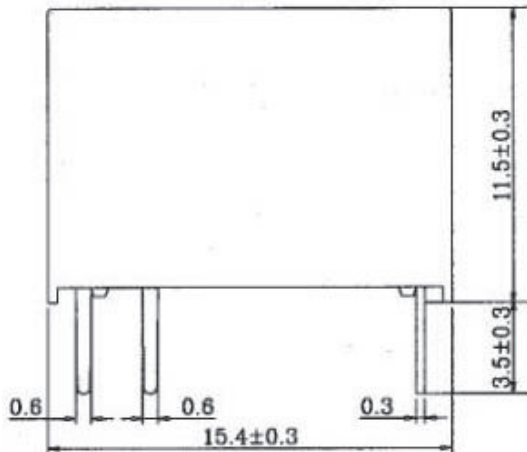
Coil

Nominal operating power	0.2 to 0.45W
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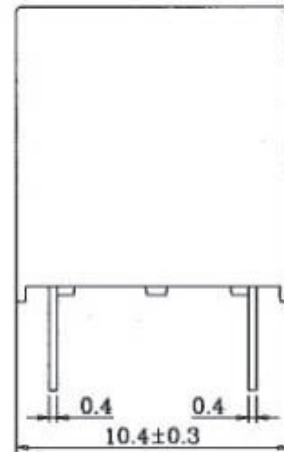
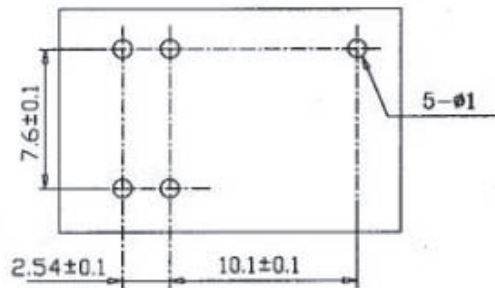
COIL DATA (at 20°C)

Nominal Voltage (VDC)	Pick-up Voltage VDC(Max.)	Drop-out Voltage VDC(Min.)	Coil Resistance (Ω) \pm 10%	Nominal operating Power (W)	Coil Resistance (Ω) \pm 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 ;mm



(TOP VIEW)



(TOP VIEW)

