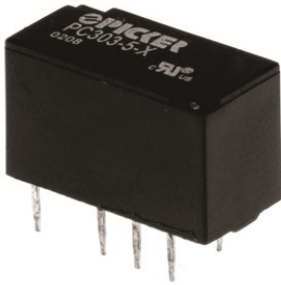


# 1 Amp Ultraminiature Signal Relay

**PC303**



## FEATURES

- Microminiature Design
- 0.200" 10 Pin DIL Package
- Meets FCC Part 68 Voltage Surge
- Bifurcated Contacts for High Sensitivity
- Sealed, Immersion Cleanable
- RoHS Compliant:



Rated Load	2 Form C DPDT(B-M) (Crossbar Contacts)
Resistive	2 A 30 VDC
Resistive	0.5 A 125 VDC
Max. Switching Power	60 W 62.5 VA
Max. Switching Voltage	220 VDC 250 VAC
Max. Switching Current	2 A
Min. Switching Load	0.01 mA 10 mV

## CONTACT DATA

Material	Stationary	CuNi Base AgPd+Au (Clad) Top
	Moveable	CuNi Base AgPd Top
Initial Contact Resistance		70 mΩ max
Service Life	Mechanical	1 X 10 <sup>8</sup> Operations
	Electrical	5 X 10 <sup>5</sup> 1A 30 VDC 1 X 10 <sup>5</sup>

## CHARACTERISTIC

Operate Time	4.0 ms. Max
Release Time	4.0 ms Max
Insulation Resistance	1,000 MΩ min, at 500 VDC
Dielectric Strength	1,000 VAC, 1 min, Between Open Contacts
	1,500 VAC, 1 min, Between Coil and Contacts
	1,000 VAC, 1 min, Between Contact Poles
Surge Withstand Voltage FCC Part.68	1,500 V, Between Open Contacts
	2,500 V, Between Coil and Contacts
Power Consumption	100 mW, 140 mW, 150 mW, 200 mW

## CHARACTERISTIC Continued

Shock Resistance	Functional	750 m/s <sup>2</sup> 11 ms
	Survival	1,000 m/s <sup>2</sup> 6 ms
Vibration Resistance	Functional	10 Hz - 55 Hz Double Amplitude 3.3 mm
	Survival	10 Hz - 55 Hz Double Amplitude 5 mm
Terminal Strength	5N	
Solderability	255 °C 3 s ± 0.5 s	
Temperature Range	- 40°C ~ 85°C (-40° F ~ 185° F)	
Relative Humidity	5% to 85%	
Weight	2 Grams	

## ORDERING INFORMATION

Example:	PC303	-12	-X
Model:	<b>PC303</b>		
Coil Voltage:	<b>3, 4.5, 5, 6, 9, 12, 24</b>		
Type of Operation:	<b>Nil: Single Side Stable</b>		
RoHS Compliant:	<b>-X</b>		

Box Quantity: 4,000; Inner Box: 1,000

**COIL DATA**

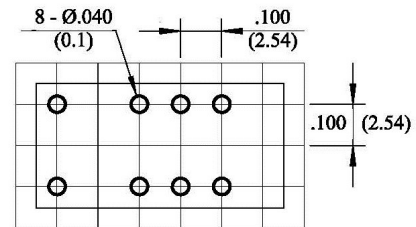
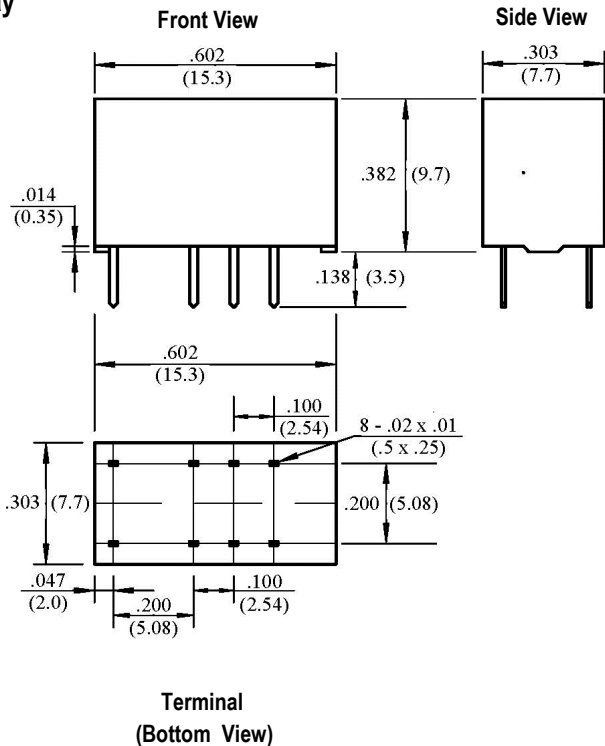
Type	Coil Voltage (VDC)		Coil Resistance (Ohms ± 10 %)	Must Operate Voltage Max. (VDC)	Must Release Voltage Min. (VDC)	Coil Power (W)
	Rated	Max.				
Single Sided Stable (140 mW)	3	7.5	64.3	2.25	0.3	0.14
	4.5	11.25	144.6	3.38	0.45	0.14
	5	12.5	178	3.75	0.5	0.14
	6	15.0	257	4.50	0.6	0.14
	9	22.5	579	6.75	0.9	0.14
	12	30.0	1028	9.00	1.2	0.14
	24	48.0	2880	18.0	2.4	0.20

**PRECAUTIONS**

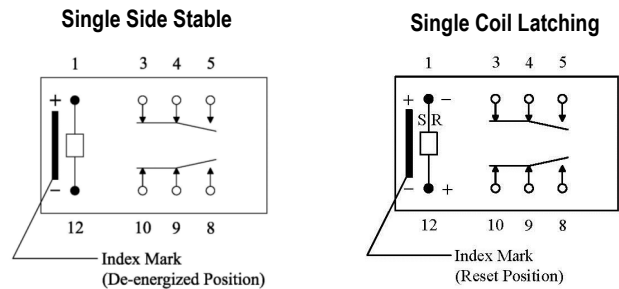
- 1) The use of any coil voltage less than the rated coil will compromise the operation of the relay.
- 2) Must Operate and Must Release (reset) Voltage are for test purposes only and are not to be used as design criteria.
- 3) When latching relays are installed in equipment, the latch and reset coil should not be powered simultaneously. Coil should not be pulsed with less than the nominal coil voltage and pulse width should be a minimum of three times the specified operate time of the relay. If these condition are not followed, it is possible for the relay to be in magnetically neutral position.
- 4) Unless otherwise stated, the rated coil voltage specified in coil parameter and its suitable polarity (if applicable) shall be used for all tests and its application to the relay.

**DIMENSIONS in Inches (mm)**

**Relay**



**PCB Mounting (Top View)**



**Wiring Diagrams (Bottom View)**