

3/5 Amp Subminiature PCB Telecom Relay

PC312



FEATURES

- Subminiature Design
- 0.300" 12 Pin DIL Footprint
- Contact Capacity from 50 mA to 5 A
- Meets FCC Part 68 Voltage Surge
- Class "B" Insulation Standard
- Three Coil Sensitivities Available
- Sealed, Immersion Cleanable
- RoHS Compliant:



CONTACT DATA

Contact Form	1 Form C SPDT		
Rated Load	Voltage	Amps* (3 Amp)	Amps* (5 Amp)
Resistive	14 VDC	0.05 - 3 A	0.05 - 5 A
Resistive	125 VAC	0.05 - 3 A	0.05 - 5 A
Resistive	30 VDC	0.05 - 3 A	0.05 - 5 A

*Minimum Switching Condition for Gold Plated Contacts is 50 mA at 6 VDC

Max. Switching Power	90 W 375 VA	150 W 625 VA
Max. Switching Voltage	60 VDC 220 VAC	
Max. Switching Current	3 A	5 A
Material	AgNi+Au (Clad)	
Initial Contact Resistance	50 mΩ max	
Service Life	Mechanical	1 X 10 ⁷ Operations
	Electrical	1 X 10 ⁵ Operations

CHARACTERISTIC

Operate Time	5.0 ms. Max.
Release Time	5.0 ms. Max.
Insulation Resistance	100 MΩ min, at 500 VDC
Dielectric Strength	Meets FCC Part 68.302 1,500 V Lightning Surge
	Meets FCC Part 68.304 1,000 V Dielectric
	500 V 50 Hz, Between Contacts
Coil Power	200 mW, 360 mW, 450 mW

CHARACTERISTIC Continued

Shock Resistance	100 m/s ² 11 ms
Vibration Resistance	10 Hz - 70 Hz Double Amplitude 1.5 mm
Terminal Strength	5N
Solderability	255 °C 3 s ± 0.5 s
Temperature Range	-25°C ~ 70°C
Weight	3.5 gr

ORDERING INFORMATION

Example:	PC312	-12	H	-X
Model:	PC312			
Contact Form:	Nil: 1C			
Coil Voltage:	3, 5, 6, 9, 12, 18, 24			
Contact Material:	Nil: AgNi + Au			
Sensitivity:	Nil: Standard 360 mW; B: 450 mW; H: 200 mW			
Current Rating:	Nil: Standard, 3 A; 5 A			
RoHS Compliant:	-X			

Box Quantity: 2,000 ; Inner Box 1,000

COIL DATA

Coil Voltage (VDC)		Coil Power			Must Operate Voltage Max. (VDC)	Must Release Voltage Min. (VDC)
		Resistance ohms ± 10%				
Rated	Max	200 mW	360 mW	450 mW		
3	3.3	45	25	20	2.25	0.3
5	5.5	125	75	56	3.75	0.5
6	6.6	180	100	80	4.50	0.6
9	9.9	405	225	180	6.75	0.9
12	13.2	720	400	320	9.00	1.2
18	19.8	1,620	900	720	13.5	1.8
24	26.5	2,880	1,600	1,280	18.0	2.4

Notes:

The use of any coil voltage less than the rated voltage will compromise the operation of the relay. Must Operate Voltage is listed for test purposes only and is not to be used as design criteria. Pickup and release voltages are for test purposes only and are not to be used as design criteria.

Relay DIMENSIONS Inches/mm

