

Subminiature PCB Telecom Relay

PC312



FEATURES

- Subminiature Design
- PC Terminals on 0.1" Grid Pattern
- 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
- 0.300" 12 Pin DIL Socket Footprint
- RoHS Compliant:

UL / CUL Ratings



Contact Form	1 Form C SPDT					
Rated Load	Voltage Amps* (3 Amp) Amps* (5 Ar					
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

CHARACTERISTIC

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

CONTACT DATA

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

CHARACTERISTIC Continued

Shock Resistance	100 m/s² 11 ms
Vibration Resistance	10 Hz - 70 Hz Double Amplitude 1.5 mm
Terminal Strength	5N
Solderability	260°C for 5 seconds
Temperature Range	- 25°C ~ 70°C
Weight	3.5 grams

ORDERING INFORMATION

Example:	PC312		-12	Н		-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; I	H : 200 mW		•		
Current Rating:	Nil: Standard, 3 A; S: 5 A				•	
RoHS Compliant	· -X					•

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



409 International Parkway, #200 Richardson, TX 75081

Sales: (972) 713-6272 (8

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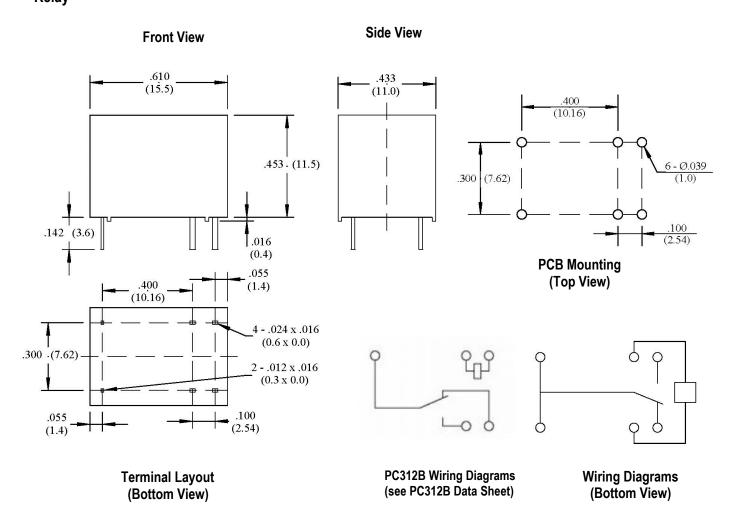
COIL DATA

Coil V	oltage		Coil Power			Must Release
(VI	DC)	Re	sistance ohms :	± 10%	Voltage Max.	Voltage Min.
Rated	Max	200 mW	360 mW	450 mW	(VDC)	(VDC)
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:

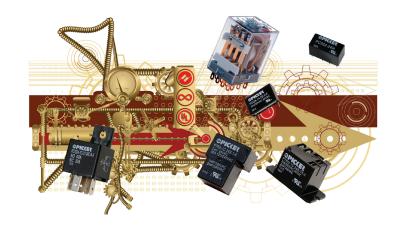
The use of any coil voltage less than the rated voltage will compromise the operation of the relay. Must Operate Voltage is listed for test purposes only and is not to be used as design criteria. Pickup and release voltages are for test purposes only and are not to be used as design criteria.

DIMENSIONS Inches/mm Relay



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Signal Relays



Signal Relays In Applications From Dry Contacts to 5 Amps

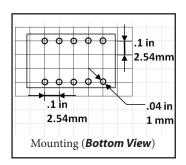


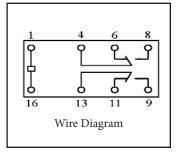
Subminiature Signal Relays

Current Rating At 30 VDC	Series	Coil Power Options in milliWatts						
		150	200	360	400	450	510	560
1 Amp	PC324				Х			Х
1 Amp	PC323	Х	Х			Χ		
1 Amps	PC322		Х	Х			Х	
2 Amps	PC324S				Х			Х
3 Amps	PC332	Х	Х					



- 2 Form C DPDT (B-M)
- Gold Clad Bifurcated Contacts
- Meets FCC Part 68 Voltage Surge



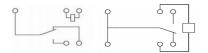




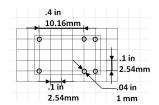
Current Rating At 30 VDC	Series	Coil Power Options in milliWatts					
		200 360 450					
3/5 Amps	PC312	Х	Х	χ			
3/5 Amps	PC312B	Х	Х	Х			

- 0.300" 12 Pin DIL Socket Footprint
- 2 Form 1A SPST OR 1C SPDT
- Meets FCC Part 68 Voltage Surge

PC312 differs from the PC312B with a different pin configuration



PC312B Wiring Diagrams (see PC312B Data Sheet) Wiring Diagrams (Bottom View)



PCB Mounting (**Top View**)

..... Gold Clad Bifurcated Contacts

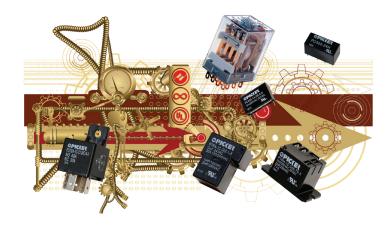
- Where noted, these relays utilize Gold Clad Bifurcated Contacts.
- These are forked contacts making a connection at two parallel contact points. This adds to the reliability of the relay by reducing the contact resistance.
- Gold is used because it does not oxidize like copper or silver which is most important in dry contact applications.

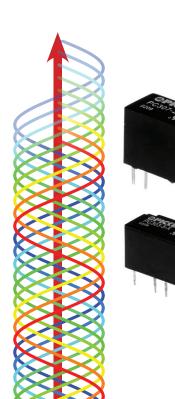




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Signal Relays

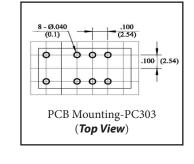


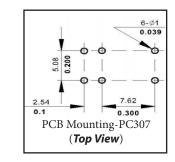


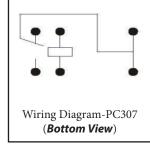
Ultraminiature Signal Relays

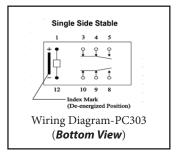
Current Rating At 30 VDC	Series	Coil Power Options in milliWatts		Contact Configuration	Optional Latching	
		140	150	200		
1 Amps	PC307		Х	Х	Form 1C SPST	Х
2 Amps	PC303	Х			Form 2C DPDT (8-M)	Single Coil

- 0.200" 10 Pin DIL Socket Footprint
- Gold Plated Bifurcated Contacts
- Meet FCC Part 68 Voltage Surge







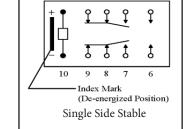


Microminiature Signal Relays



Current Rating At 30 VDC	Series	Coil Power Options in milliWatts			Optional Latching
		140	150	200	
2 Amps	PC302	Х			Single & Dual Coil
2 Amps	PC3025*	Х			Single Coil Side Stable







- 0.300" 10 Pin DIL Socket Footprint
- Low 5mm Profile
- Gold Plated Bifurcated Contacts
- Meet FCC Part 68 Voltage Surge
- Latching Single and Dual Coil Latching Options

