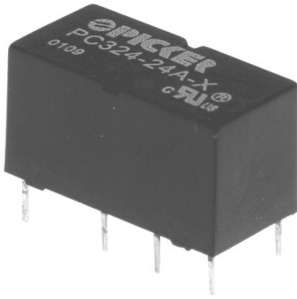


# 1 Amp Subminiature PCB Telecom Relay With Bifurcated Contacts

**PC324**



## FEATURES

- Subminiature Design
- Bifurcated Crossbar Contacts
- 0.300" 16 Pin DIL Package for PC Board or Socket
- Contact Capacity from 0.01 mA @10mV to 1 A @ 24 VDC
- Meets FCC part 68 Voltage Surge
- Class "B" Insulation Standard
- RoHS Compliant:



Contact Form	2 Form C, DPDT(B-M) ( Bifurcated Crossbar)
Rated Load	1 A @ 24 VDC; 0.5A @ 120 VAC
Max. Switching Power	60W 125 VA
Max. Switching Voltage	220 VDC 250 VAC
Max. Switching Current	2 A
Min. Switching Load	0.01 mA @10mV

## CONTACT DATA

Material		Nil: AgNi+Au (Clad); P: AgPd+Au (Clad)
Initial Contact Resistance		50 mΩ max
Service Life	Mechanical	1 X 10 <sup>8</sup> Operations
	Electrical	1 A @ 24 VDC: 5 X 10 <sup>5</sup> (AgNi: 1 x 10 <sup>5</sup> ) 0.5 A @120 VAC: 2 x 10 <sup>5</sup>

## CHARACTERISTIC

Operate Time	4.5 ms. Max.
Release Time	1.5 ms. Max.
Insulation Resistance	1,000 MΩ min, at 500 VDC
Dielectric Strength	1,000 VAC, 1 min, Between Open Contacts
	1,000 VAC, 1 min, Between Coil and Contacts
	1,000 VAC, 1 min, Between Contacts Poles
Surge Withstand Voltage	1,500 V, Between Open Contacts
	1,500 V, Between Coil and Contacts
	1,500 V, Between Contacts Poles
Power Consumption	560 mW, 400 mW

## CHARACTERISTIC Continued

Shock Resistance	Functional	100 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 1.5 mm
	Survival	10 Hz - 55 Hz Double Amplitude 5 mm
Terminal Strength	5N	
Solderability	260°C for 5 seconds	
Temperature Range	-40°C ~ 65°C (-40° F ~ 149° F) (-40°C ~ 70°C for 0.4 W Coil)	
Weight	4.5 grams	

## ORDERING INFORMATION

Example:	PC324	-24	A	-X
Model:	<b>PC324</b>			
Coil Voltage:	<b>3, 5, 6, 9, 12, 24, 48</b>			
Contact Material:	<b>Nil: AgNi+Au; P: AgPd+Au</b>			
Coil Sensitivity:	<b>A: 560 mW; B: 400 mW:</b>			
RoHS Compliant:	<b>-X</b>			

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

**COIL DATA**

Coil Voltage (VDC)		Resistance ohms ± 10%	Must Operate Voltage Max (VDC)	Must Release Voltage Min. (VDC)	Coil Power (mW)
Rated	Max				
3	4.2	16	2.1	0.3	560
5	7.0	45	3.5	0.5	560
6	8.4	66	4.2	0.6	550
9	12.3	140	6.3	0.9	580
12	17.4	280	8.4	1.2	520
24	34.0	1,070	16.8	2.4	540
48	64.9	3,900	33.6	4.8	590

3	4.9	22.5	2.1	0.3	400
5	8.1	62.5	3.5	0.5	
6	9.7	90.0	4.2	0.6	
9	14.5	203.0	6.3	0.9	
12	19.4	360.0	8.4	1.2	
24	38.9	1,440.0	16.8	2.4	
48	77.8	5,760.0	33.6	4.8	

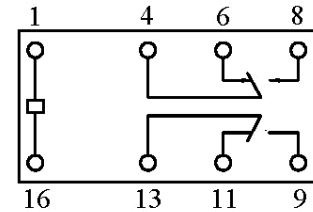
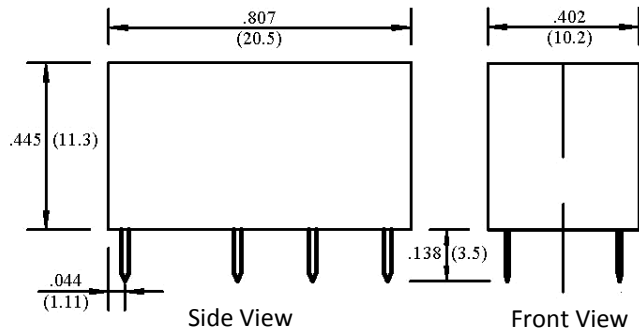
**NOTES:**

The use of any coil voltage less than the rated voltage will compromise the operation of the relays.

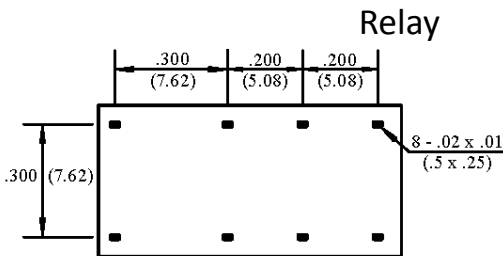
Must Operate Voltage is listed for test purposes only and is not to be used as design criteria.

Pickup and release voltages are for test purposes only and are not to be used as design criteria.

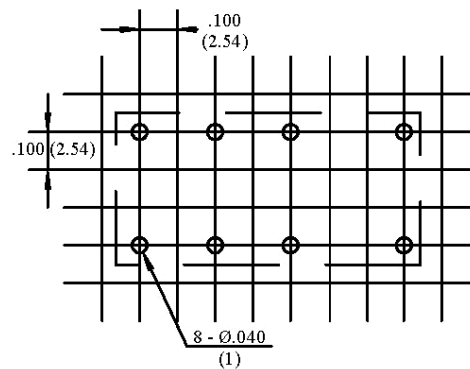
**DIMENSIONS Inches/(mm)**



Wire Diagram



Terminal Layout (Bottom View)



PC Board Layout (Top View)



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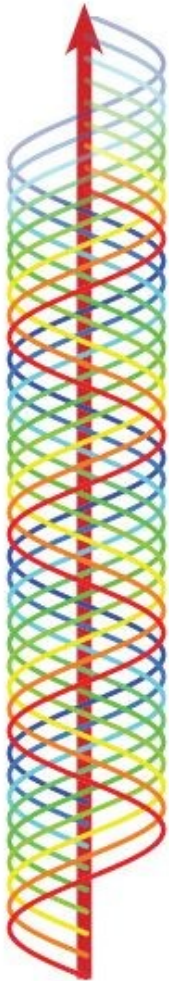
Dimensions are listed for reference purposes only.

Specifications and Availability subject to change without notice.

## Signal Relays



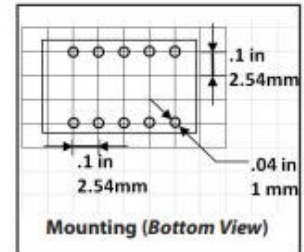
Signal Relays In Applications  
From Dry Contacts to 5 Amps



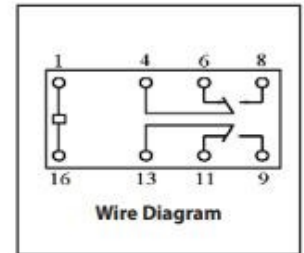
### Subminiature Signal Relays



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



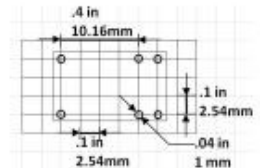
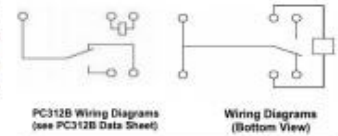
- 0.300" 16 Pin DIL Socket Footprint
- 2 Form C - DPDT (B-M)
- Gold Clad Bifurcated Contacts
- Meets FCC Part 68 Voltage Surge



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

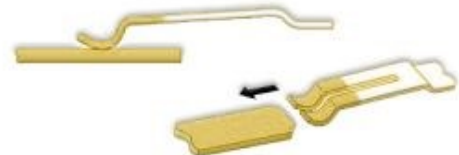
- 0.300" 12 Pin DIL Socket Footprint
- 2 Form 1A - SPST OR 1C SPDT
- Meets FCC Part 68 Voltage Surge

PC312 differs from the PC312B with a different pin configuration



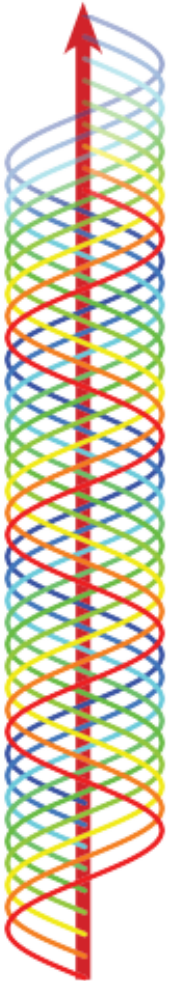
### Gold Clad Bifurcated Contacts

- 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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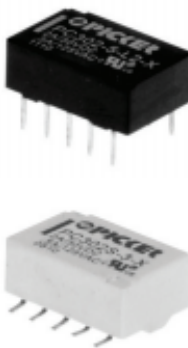
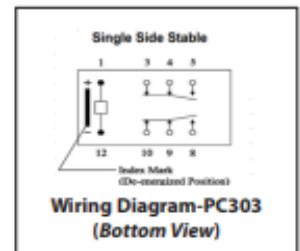
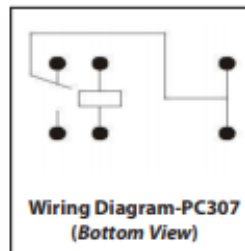
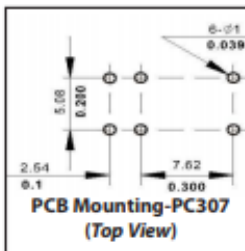
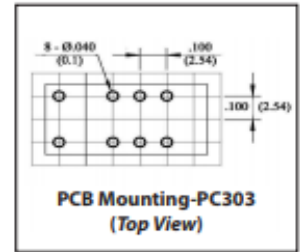




### Ultraminiature Signal Relays

Current Rating At 30 VDC	Series	Coil Power Options in milliwatts			Contact Configuration	Optional Latching
		140	150	200		
1 Amps	PC307	X	X	X	Form 1c SPST	X
2 Amps	PC303	X			Form 2c DPDT (B-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	X			Single & Dual Coil
2 Amps	PC3025	X			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

