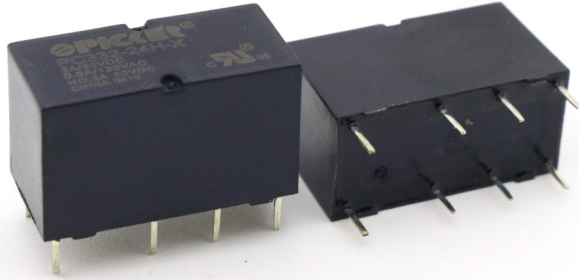


# Subminiature PCB Telecom Relay With Bifurcated Contacts

PC332



## FEATURES

- Subminiature Design
- 16 Pin DIL Package for PC Board or Socket
- Contact Capacity from 1 mA to 3 A
- Meets FCC part 68 Voltage Surge
- Class "B" Insulation Standard
- High Sensitivity Coil Option
- Bifurcated Crossbar Contacts
- Sealed Construction
- RoHS Compliant:



Contact Form	2 Form C, DPDT ( Crossbar Contacts)
Switching Current Range	1 mA to 2 A
Switching Voltage Range	10 mVAC—250 VAC; 10 mVDC—220 VDC
Max, Continuous Current	3 A
Switching Power Range	10 micro W to 60 W 125 VA
UI Rated Loads	2 A 30 VDC; 0.6 A 125 VAC

## CONTACT DATA

Material	AgRu + AU (Silver Ruthenium + Gold Clad)	
Initial Contact Resistance	50 milliohms max @ 1 A, 200 mv, 1 KHz	
Service Life	Mechanical	3 X 10 <sup>5</sup> Operations
	Electrical	1 X 10 <sup>8</sup> Operations

## CHARACTERISTIC

Operate Time	Standard	5 ms. Max.
	Sensitive H & L	5 ms. Max.
Operate Bounce	Standard	1 ms Typical
	Sensitive H & L	0.5 ms Typical
Release Time	Standard	3 ms. Max.
	Sensitive H & L	5 ms. Max.
Release Bounce	Standard	2 ms Typical
	Sensitive H & L	3 ms Typical
Insulation Resistance	1,000 megohms min, at 500 VDC, 50% RH	
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	
	1,500 V	
	1,500 V	
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 ~ 90°C (-40° F ~ 194° F) (- 40°C ~ 80°C for 0.3 W Coil	
Weight	4.5 gr Approximately	

## ORDERING INFORMATION

Example:	PC332	-12	L	-X
Model:	<b>PC332</b>			
Coil Voltage:	<b>5, 6, 9, 12, 24, 48</b>			
Contact Material:	<b>Nil: AgNi + Au; P: AgPd + Au</b>			
Coil Sensitivity:	<b>Nil: 0.30 W; L: 0.15 W; H: .0.2 W</b>			
RoHS Compliant:	<b>-X</b>			

Box Quantity: 4000; Inner Box: 1000

**COIL DATA**

Coil Voltage (VDC)		Resistance ohms ± 10%	Must Operate Voltage Max (VDC)	Must Release Voltage Min. (VDC)	Coil Power
Rated	Max				
3	7.5	60	2.1	0.15	0.15 W
5	12.5	167	3.5	0.25	0.15 W
6	15.0	240	4.2	0.3	0.15 W
9	22.5	540	6.3	0.45	0.15 W
12	30.0	960	8.4	0.6	0.15 W
18	40.0	1620	12.6	0.9	0.20 W
24	52.9	2880	16.8	1.2	0.20 W
48	84.9	7680	33.6	2.4	0.30 W

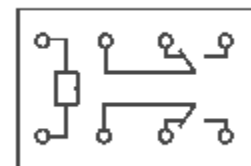
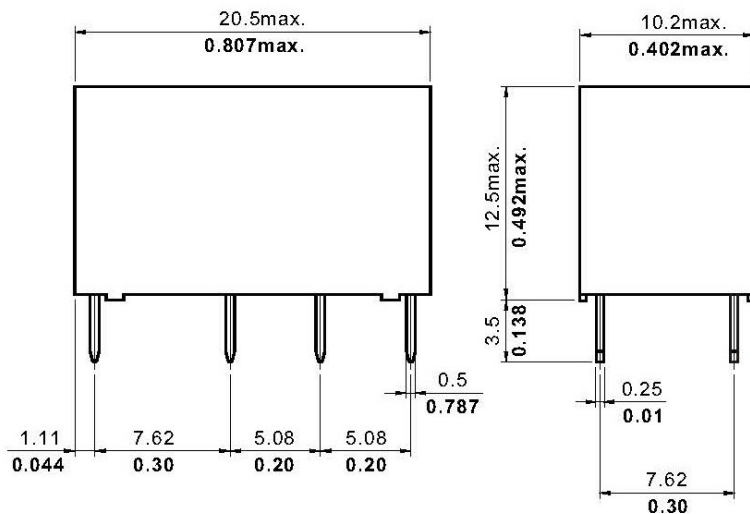
Coil Voltage (VDC)		Resistance ohms ± 10%	Must Operate Voltage Max (VDC)	Must Release Voltage Min. (VDC)	Coil Power
Rated	Max				
3	6.5	45	2.1	0.3	0.20 W
5	10.8	125	3.5	0.5	0.20 W
6	13.0	180	4.2	0.6	0.20 W
9	19.5	405	6.3	0.9	0.20 W
12	26.5	720	8.4	1.2	0.20 W
24	52.9	2880	16.8	2.4	0.20 W
48	103.9	11520	33.6	4.8	0.20 W

**NOTES:**

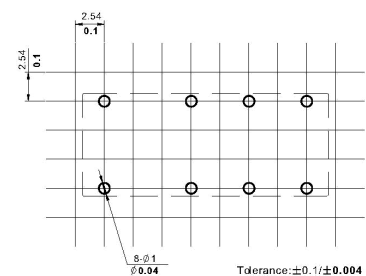
The use of any coil voltage less than the rated voltage will compromise the operation of the relays. Must Operate Voltage is listed for test purposes only and is not to be used as design criteria. Pickup and release voltages are for test purposes only and are not to be used as design criteria.

Dimensions are in mm, Inches are listed for reference only.

**DIMENSIONS (mm/inches)**



Wire Diagram (Bottom View)



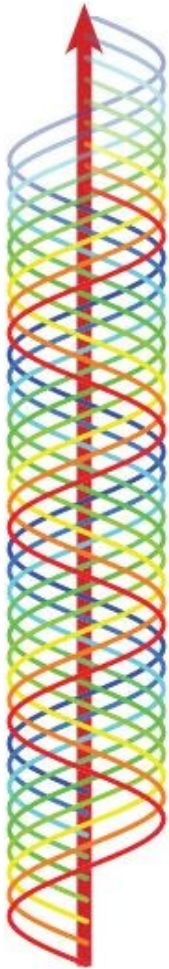
Mounting (Bottom view)



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## Signal Relays

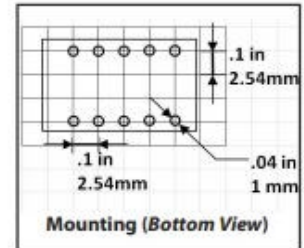


Signal Relays In Applications  
From Dry Contacts to 5 Amps

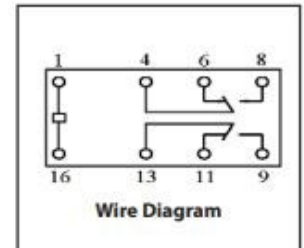


### Subminiature Signal Relays

Current Rating At 30 VDC	Series	Coil Power Options in milliWatts						
		150	200	360	400	450	510	560
1 Amp	PC324				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					



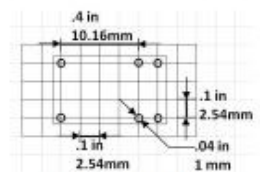
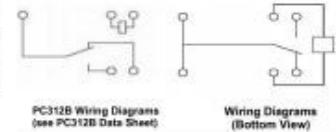
- 0.300" 16 Pin DIL Socket Footprint
- 2 Form C - DPDT (B-M)
- Gold Clad Bifurcated Contacts
- Meets FCC Part 68 Voltage Surge



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

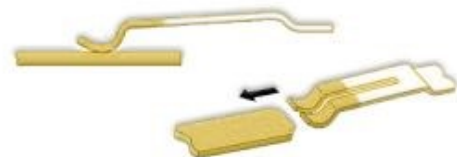
- 0.300" 12 Pin DIL Socket Footprint
- 2 Form 1A - SPST OR 1C SPDT
- Meets FCC Part 68 Voltage Surge

PC312 differs from the PC312B with a different pin configuration

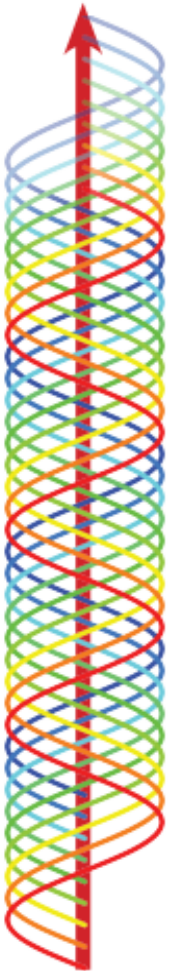
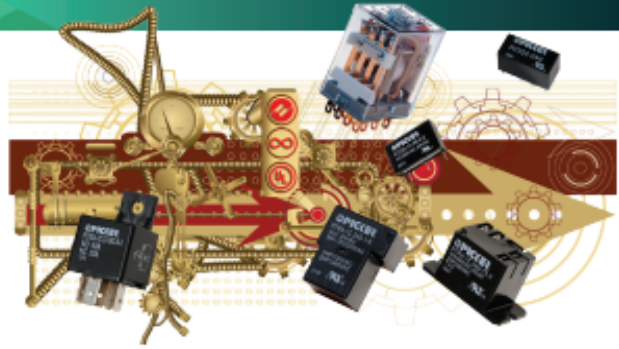


### Gold Clad Bifurcated Contacts

- 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.



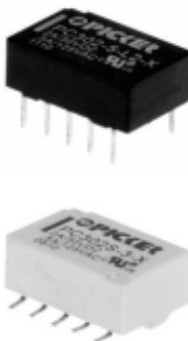
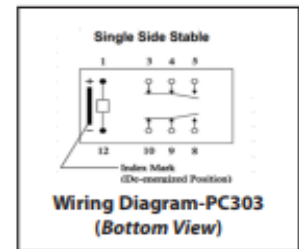
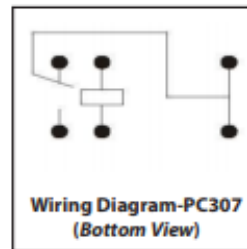
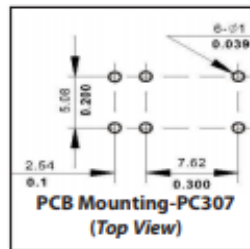
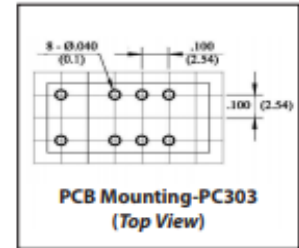
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### Ultraminiature Signal Relays

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

