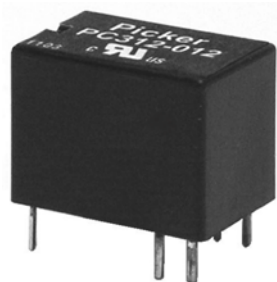


# Subminiature PCB Telecom Relay

# PC312B



## FEATURES

- Subminiature design
- PC Terminals on .1 in. grid pattern
- Contact capacity from 1 mA to 5A
- Meets FCC part 68 voltage surge
- Class "B" insulation standard
- Three coil sensitivities available
- Sealed, immersion cleanable
- Lead Free & RoHS Compliant



File # E86876

## UL/CSA RATINGS

<b>Contact Form</b>	<b>1 Form C SPDT</b>
<b>Rated Load</b>	3A @ 125VAC / 30 VDC
<b>Rated Load (Special)</b>	5A @ 120VAC / 30VDC
<b>Max. Switching Current</b>	3 Amps
<b>Max. Switching Current (S)</b>	5 Amps
<b>Minimum Load (Gold Plated)</b>	1 mA @ 1 VDC

## CONTACT DATA

<b>Material</b>	Ag (Fine Silver), Ag+Au (Fine Silver Gold Clad) AgNi (Silver Nickel), AgCdO (Silver Cadmium Oxide)	
<b>Initial Contact Resistance</b>	100 milliohms max @ 0.1A, 6VDC (with Gold Plate)	
<b>Service Life</b>	<b>Mechanical</b>	1 X 10 <sup>7</sup> Operations
	<b>Electrical</b>	1 X 10 <sup>5</sup> Operations

## CHARACTERISTICS

<b>Operate Time</b>	5 ms. Max.
<b>Release Time</b>	5 ms. Max.
<b>Insulation Resistance</b>	100 megohms min, at 500VDC, 50%RH
<b>Dielectric Strength</b>	1250 Vrms, 1 min. between coil and contacts 500 Vrms, 1 min. between open contacts: 750 Vrms, 1 min for S version
<b>Surge Resistance</b>	1500 V, between coil and contacts (FCC Part 68)
<b>Shock Resistance</b>	10 g, 11ms, functional; 100 g, destructive
<b>Vibration Resistance</b>	DA 1.5 mm, 10 - 55 Hz
<b>Power Consumption</b>	0.45 W, 0.36 W or 0.2 W
<b>Ambient Temperature Range</b>	-25 to 70 C operating, -30 to 130 storage
<b>Weight</b>	3.5 grams approx.

## ORDERING INFORMATION

Example:	PC312B	-12	H	S	-X
Model					
Coil Voltage					
Coil Sensitivity					
Nil: 0.36 W; B: 0.45 W; H: 0.2 W					
Current Rating					
Nil: Standard, 3 Amp; S: Special 5 Amp					
RoHS Compliant					
Nil: Not Rohs, -X: RoHS Compliant					

**COIL DATA**

Coil Voltage	Resistance ohms $\pm$ 10%			Must Operate Voltage Max. (VDC)	Must Release Voltage Min. (VDC)
	Sensitivity Code B 0.45 W	Standard Sensitivity 0.36 W	Sensitivity Code H 0.2 W		
3	20	25	45	2.25	0.3
5	56	70	120	3.75	0.5
6	80	100	180	4.50	0.6
9	180	220	440	6.75	0.9
12	320	400	700	9.00	1.2
18	720	900	1620	13.5	1.8
24	1280	1600	2800	18.00	2.4

Note: Custom coil voltages within the ranges shown are available on special order.

**Dimensions in Inches (millimeters)**

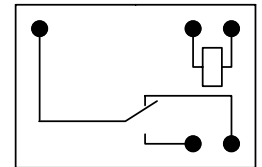
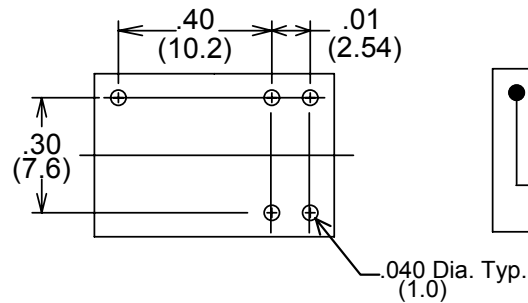
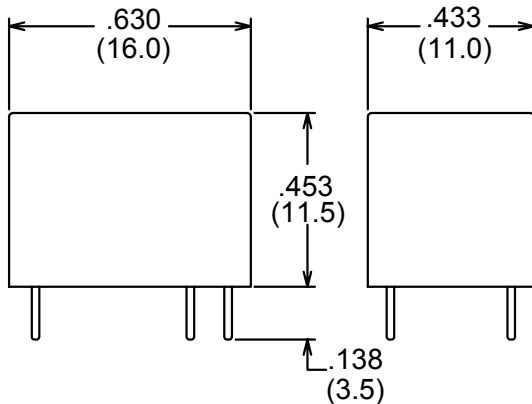
**Drawings are 2X actual size**

**Side View**

**End View**

**Bottom View  
PC Board Layout**

**Wiring Diagram**



**Notes:**

Tolerances  $\pm$  .010 unless otherwise noted



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