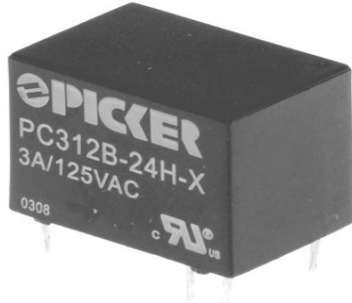


# 3/5 Amp Subminiature PCB Telecom Relay

**PC312B**



## 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 Form | 1 Form C |               |               |
| 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

## CONTACT DATA

|                            |                |                                |
|----------------------------|----------------|--------------------------------|
| 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 <sup>7</sup> Operations |
|                            | Electrical     | 1 X 10 <sup>5</sup> 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 <sup>2</sup> 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:          | PC312B                                                             | -12 | H | -X |
| Model:            | <b>PC312B</b>                                                      |     |   |    |
| Contact Form:     | <b>Nil</b> : 1C                                                    |     |   |    |
| Coil Voltage:     | <b>3, 5, 6, 9, 12, 18, 24</b>                                      |     |   |    |
| Contact Material: | <b>Nil</b> : AgNi + Au                                             |     |   |    |
| Sensitivity:      | <b>Nil</b> : Standard 360 mW; <b>B</b> : 450 mW; <b>H</b> : 200 mW |     |   |    |
| Current Rating:   | <b>Nil</b> : Standard, 3 A; <b>5</b> : 5 A                         |     |   |    |
| RoHS Compliant:   | <b>-X</b>                                                          |     |   |    |

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

**COIL DATA**

| Coil Voltage (VDC) |      | Coil Power<br>Resistance ohms $\pm 10\%$ |        |        | Must Operate Voltage Max. (VDC) | Must Release Voltage Min. (VDC) |
|--------------------|------|------------------------------------------|--------|--------|---------------------------------|---------------------------------|
| 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.

**DIMENSIONS Inches/mm**

**Relay**

