


**FEATURES**

- Subminiature Design
- PC Terminals on 0.1" Grid Pattern
- Meets FCC Part 68 Voltage Surge
- 0.300" 12 Pin DIL Socket Footprint


**UL / CUL Ratings**

|                                       |                |        |
|---------------------------------------|----------------|--------|
| Contact Form                          | 1 Form C, SPDT |        |
| Rated Load                            | Voltage        | Amps   |
| NO, General Purpose, 20K cycles, 40°C | 125VAC         | 3A, 5A |
| NC, General Purpose, 10K cycles, 40°C | 125VAC         | 3A, 5A |
| NO, Resistive, 50K cycles, 40°C       | 30VDC          | 3A, 5A |
| NC, Resistive, 30K cycles, 40°C       | 30VDC          | 3A, 5A |

**CHARACTERISTICS**

|                       |  |
|-----------------------|--|
| Insulation Resistance | 100MΩ min. at 500 VDC  |
| Dielectric Strength   | 500V rms, between contacts<br>1250V rms, between coil & contacts |
| Power Consumption     | .20 W, .36W, .45W  |
| Terminal Strength     | 5N   |
| Solderability         | 260°C 5 s ± 0.5 s  |
| Operating Temperature | -40°C to 85°C  |
| Storage Temperature   | -40°C to 155°C   |
| Shock Resistance      | 100 m/s <sup>2</sup> 11 ms                                       |
| Vibration Resistance  | 10-40 Hz double amplitude 1.5mm                                  |
| Weight                | 3.5g   |

**CONTACT DATA**

|                            |   |
|----------------------------|---|
| Maximum Switching Power    | 150W                                      |
| Maximum Switching Voltage  | 300VAC, 48VDC                             |
| Maximum Switching Current  | 5A  |
| Material                   | AgNi+Au                                   |
| Initial Contact Resistance | 50 mΩ max.                                |
| Service Life               | Mechanical 1 x 10 <sup>7</sup> operations |
|                            | Electrical 1 x 10 <sup>5</sup> operations |

**ORDERING INFORMATION**

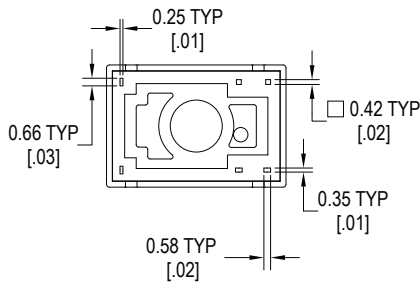
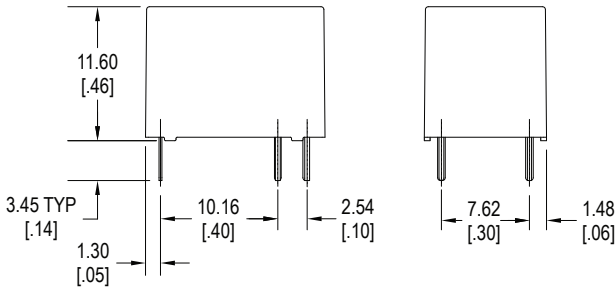
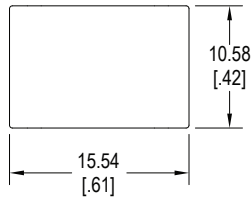
|                   |  |     |   |    |
|-------------------|--|-----|---|----|
| Example           | PC312B   | -12 | H | -X |
| Model:            | PC312B   |     |   |    |
| Contact Form:     | Nil = 1C   |     |   |    |
| Coil Voltage:     | 3 = 3VDC<br>5 = 5VDC<br>6 = 6VDC<br>9 = 9VDC<br>12 = 12VDC<br>24 = 24VDC |     |   |    |
| Contact Material: | Nil = AgNi + Au  |     |   |    |
| Sensitivity:      | Nil = 360mW<br>B = 450mW<br>H = 200mW                                    |     |   |    |
| Current Rating:   | Nil = 3A<br>S = 5A   |     |   |    |
| RoHS Compliant:   | X = RoHS Compliant   |     |   |    |

Values can change due to the switching frequency, desired reliability levels, environmental conditions, and in-rush current levels. It is recommended to test to actual load conditions for the application. It is the users responsibility to determine the performance suitability for their specific application. The use of any coil voltage less than the rated coil voltage may compromise the operation of the relay.

## COIL DATA

| Coil Voltage |         | Resistance (Ohms ± 10%) |      |      | Pick Up Voltage Max. VDC | Release Voltage Min. VDC | Coil Power W      | Operate Time ms | Release Time ms |
|--------------|---------|-------------------------|------|------|--------------------------|--------------------------|-------------------|-----------------|-----------------|
| Rated        | Maximum | .20W                    | .36W | .45W |                          |                          |                   |                 |                 |
| 3            | 3.9     | 45                      | 25   | 20   | 2.25                     | .3                       | .20<br>.36<br>.45 | 5               | 5               |
| 5            | 6.5     | 125                     | 75   | 56   | 3.75                     | .5                       |                   |                 |                 |
| 6            | 7.8     | 180                     | 100  | 80   | 4.50                     | .6                       |                   |                 |                 |
| 9            | 11.7    | 405                     | 225  | 180  | 6.75                     | .9                       |                   |                 |                 |
| 12           | 15.6    | 720                     | 400  | 320  | 9.00                     | 1.2                      |                   |                 |                 |
| 24           | 31.2    | 2880                    | 1600 | 1280 | 18.00                    | 2.4                      |                   |                 |                 |

## DIMENSIONS *mm (inches)*



## SCHEMATICS & PC LAYOUT *Bottom Views*

