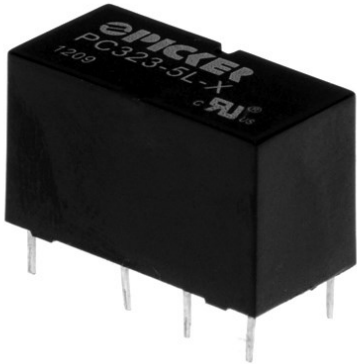


# 3 Amp Subminiature PCB Telecom Relay With Bifurcated Contacts

**PC323**



## FEATURES

- Subminiature Design
- Bifurcated Crossbar Contacts
- 0.300" 10 Pin DIL Package
- Contact Capacity from 1 mA to 1 A
- Meets FCC part 68 Voltage Surge
- Class "B" Insulation Standard
- Three Coil Sensitivities Available
- RoHS Compliant:



|                        |  |
|------------------------|--|
| Contact Form           | 2 Form C, DPDT(B-M) ( Bifurcated Crossbar) |
| Rated Load             | 1A 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    | .01 mA @10mV                               |

## CONTACT DATA

|                            |                                 |                                |
|----------------------------|---------------------------------|--------------------------------|
| Material                   | AgNi+Au (Clad); (AgPd+Au CClad) |                                |
| Initial Contact Resistance | 50 mΩ max                       |                                |
| Service Life               | Mechanical                      | 2 X 10 <sup>5</sup> Operations |
|                            | Electrical                      | 1 X 10 <sup>8</sup> Operations |

## CHARACTERISTIC

|                         |  |
|-------------------------|--|
| Operate Time            | 4.5 ms. Max.                               |
| Release Time            | 1.5 ms. Max.                               |
| Insulation Resistance   | 1,000 MΩ min, at 500 VDC                   |
| Dielectric Strength     | 1000 VAC, 1 min, Between Open Contacts     |
|                         | 1000 VAC, 1 min, Between Coil and Contacts |
|                         | 1000 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       | 150 mW, 200 mW, 450 mW                     |

|                      |  |                                       |
|----------------------|--|---------------------------------------|
| Shock Resistance     | Functional   | 100 m/s <sup>2</sup> 11 ms            |
|                      | Survival   | 1000 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        | 255 °C 3 s ± 0.5 s   |                                       |
| Temperature Range    | - 40°C ~ 90°C (-40° F ~ 194° F)<br>(- 40°C ~ 80°C for 0.3 W , 0.45 W Coil) |                                       |
| Weight               | 4.5 gr   |                                       |

## ORDERING INFORMATION

|                   |  |     |   |    |
|-------------------|--|-----|---|----|
| Example:          | PC323  | -12 | L | -X |
| Model:            | <b>PC323</b>   |     |   |    |
| Coil Voltage:     | <b>5, 6, 9, 12, 24, 48</b>                               |     |   |    |
| Contact Material: | <b>Nil:</b> AgNi+Au (Clad); <b>P:</b> AgPd+Au (Clad)     |     |   |    |
| Coil Sensitivity: | <b>Nil:</b> 450 mW; <b>L:</b> 150 mW; <b>H:</b> 200 mW : |     |   |    |
| RoHS Compliant:   | <b>-X</b>  |     |   |    |

Box Quantity: 4000; Inner Box: 1000

**COIL DATA**

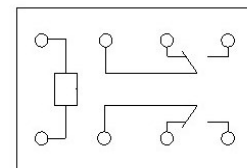
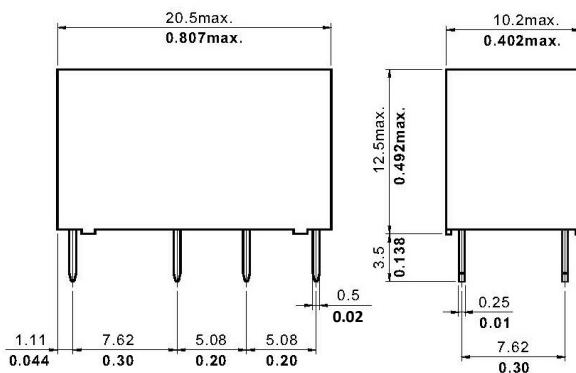
| Coil Voltage (VDC) |       | Resistance ohms ± 10% | Must Operate Voltage Max (VDC) | Must Release Voltage Min. (VDC) | Coil Power |
|--------------------|-------|-----------------------|--------------------------------|---------------------------------|------------|
| Rated              | Max   |                       |                                |                                 |            |
| 3                  | 7.5   | 60                    | 2.1                            | 0.15                            | 150 mW     |
| 5                  | 12.5  | 167                   | 3.5                            | 0.25                            | 150 mW     |
| 6                  | 15.0  | 240                   | 4.2                            | 0.3                             | 150 mW     |
| 9                  | 22.5  | 540                   | 6.3                            | 0.45                            | 150 mW     |
| 12                 | 30.0  | 960                   | 8.4                            | 0.6                             | 150 mW     |
| 18                 | 40.0  | 1620                  | 12.6                           | 0.9                             | 200 mW     |
| 24                 | 52.9  | 2880                  | 16.8                           | 1.2                             | 200 mW     |
| 48                 | 84.9  | 7680                  | 33.6                           | 2.4                             | 300 mW     |
| 3                  | 6.5   | 45                    | 2.1                            | 0.3                             | 200 mW     |
| 5                  | 10.8  | 125                   | 3.5                            | 0.5                             | 200 mW     |
| 6                  | 13.0  | 180                   | 4.2                            | 0.6                             | 200 mW     |
| 9                  | 19.5  | 405                   | 6.3                            | 0.9                             | 200 mW     |
| 12                 | 26.5  | 720                   | 8.4                            | 1.2                             | 200 mW     |
| 24                 | 52.9  | 2880                  | 16.8                           | 2.4                             | 200 mW     |
| 48                 | 103.9 | 11520                 | 33.6                           | 4.8                             | 200 mW     |
| 5                  | 7.7   | 56                    | 3.3                            | 0.3                             | 450 mW     |
| 6                  | 9.2   | 80                    | 4.0                            | 0.5                             | 450 mW     |
| 9                  | 13.7  | 180                   | 6.0                            | 0.6                             | 450 mW     |
| 12                 | 18.3  | 320                   | 8.0                            | 0.9                             | 450 mW     |
| 18                 | 27.5  | 720                   | 12.0                           | 1.2                             | 450 mW     |
| 24                 | 36.7  | 1280                  | 15.9                           | 2.4                             | 450 mW     |
| 48                 | 72.5  | 5000                  | 33.0                           | 4.8                             | 450 mW     |

**NOTES:**

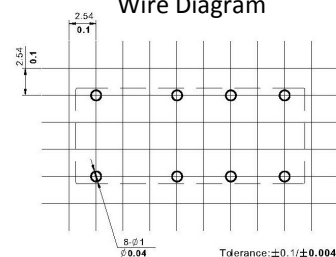
The use of any coil voltage less than the rated voltage will compromise the operation of the relays. Must Operate Voltage is listed for test purposes only and is not to be used as design criteria. Pickup and release voltages are for test purposes only and are not to be used as design criteria.

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

**DIMENSIONS (mm/inches)**



Wire Diagram



PC Board Layout



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Dimensions are listed for reference purposes only.

Specifications and Availability subject to change without notice.