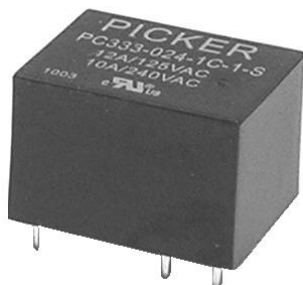


## 12 Amp Subminiature PCB Power Relay

## PC333



### FEATURES

- 12 Amp continuous contact capacity
- 1 Form A, 1form C contact forms
- 2.5 KV dielectric strength between coil and contacts
- 4 KV dielectric available
- Sensitive coil available
- Meets UL 873 spacing
- Sealed, immersion cleanable
- **Now available Lead Free & RoHS Compliant**



File # E93379

### UL/CSA RATINGS

| Load Type       | All Forms<br>All Contacts          |
|-----------------|------------------------------------|
| General Purpose | 12A @ 125 VAC/28 VDC, 6A @ 300 VAC |
| Resistive       | 10A @ 240 VAC                      |
| Inductive       | 1/3 HP @ 120/240 VAC               |

### CONTACT DATA

|                            |  |                                |
|----------------------------|--|--------------------------------|
| Material                   | AgCdO (Silver Cadmium Oxide)<br>AgSnO (Silver Tin Oxide) |                                |
| Initial Contact Resistance | 100 milliohms max @ 0.1A, 6VDC                           |                                |
| Service Life               | Mechanical   | 1 X 10 <sup>7</sup> Operations |
|                            | Electrical   | 1 X 10 <sup>5</sup> Operations |

### CHARACTERISTICS

|                           |   |
|---------------------------|---|
| Operate Time              | 8 ms. Max.  |
| Release Time              | 4 ms. Max.  |
| Insulation Resistance     | 1,000 megohms min, at 500VDC, 50%RH   |
| Dielectric Strength       | 2500 Vrms, 1 min. between coil and contacts<br>4000 Vrms, 1 min. between coil and contacts for PC333HD<br>1000 Vrms, 1 min. between open contacts |
| Shock Resistance          | 10 g, 11ms, functional; 100 g, destructive  |
| Vibration Resistance      | DA 1.5 mm, 10 - 55 Hz   |
| Power Consumption         | .45 W standard coil, .36 W sensitive coil   |
| Ambient Temperature Range | -40 to 85 C, -40 to 130 C storage   |
| Weight                    | 11 grams approx.  |

### ORDERING INFORMATION

|                   |  |     |     |   |   |    |    |
|-------------------|--|-----|-----|---|---|----|----|
| Example:          | PC333  | -1C | -12 | S | F | -H | -X |
| Model:            | PC333, PC333HD (high dielectric)                         |     |     |   |   |    |    |
| Contact Form      | 1A, 1C   |     |     |   |   |    |    |
| Coil Voltage      |  |     |     |   |   |    |    |
| Enclosure         | S: Sealed; C: Flux Free                                  |     |     |   |   |    |    |
| Insulation System | Nil: Class B (125 degrees C), F: Class F (155 degrees C) |     |     |   |   |    |    |
| Coil Sensitivity  | Nil: Standard .45 W, H: Sensitive .36 W                  |     |     |   |   |    |    |
| RoHS Compliant    | Nil: Not RoHS, -X: RoHS Compliant                        |     |     |   |   |    |    |

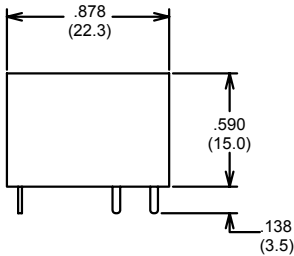
COIL DATA

| Coil Voltage | Resistance ohms ± 10% |        |                |        | Must Operate<br>Voltage Max.<br>(VDC) | Must Release<br>Voltage Min.<br>(VDC) |
|--------------|-----------------------|--------|----------------|--------|---------------------------------------|---------------------------------------|
|              | Standard Coil         |        | Sensitive Coil |        |                                       |                                       |
| 3            | 20                    | 0.45 W | 25             | 0.33 W | 2.25                                  | 0.3                                   |
| 5            | 56                    |        | 69             |        | 3.75                                  | 0.5                                   |
| 6            | 80                    |        | 100            |        | 4.50                                  | 0.6                                   |
| 9            | 180                   |        | 225            |        | 6.75                                  | 0.9                                   |
| 12           | 320                   |        | 400            |        | 9.00                                  | 1.2                                   |
| 18           | 720                   |        | 900            |        | 13.50                                 | 1.8                                   |
| 24           | 1280                  |        | 1600           |        | 18.00                                 | 2.4                                   |
| 48           | 3800                  |        | —              |        |                                       | 36.00                                 |

Dimensions in Inches (millimeters)

PC333

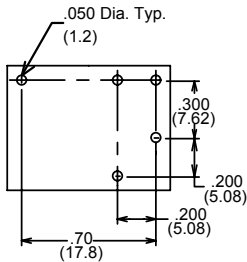
Side View



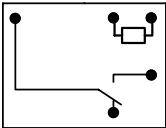
End View



Bottom View  
PC Board Layout

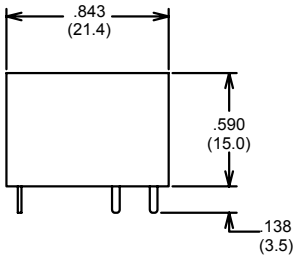


Wiring Diagram



PC333HD

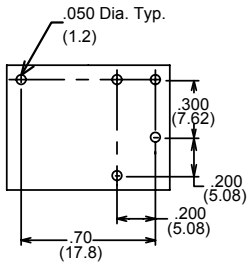
Side View



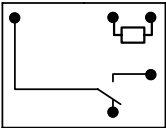
End View



Bottom View  
PC Board Layout



Wiring Diagram



Notes:  
Contact Form C shown  
On Contact Form A Unused Pin is Omitted  
Tolerances  $\pm$  .010 unless otherwise noted



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