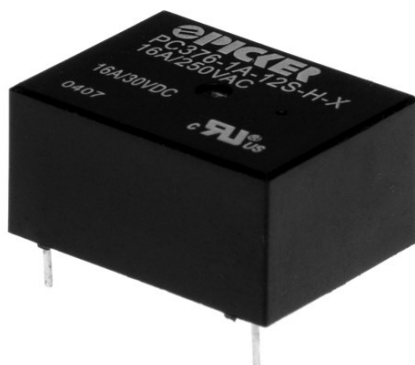


# Subminiature PCB Power Relay

PC376



## FEATURES

- 10 Amp continuous contact capacity
- 1 Form A & 1 form C contact forms
- Subminiature design
- Class "B" insulation standard
- Sensitive version available
- 16 amp version available
- Sealed, immersion cleanable
- Lead Free & RoHS Compliant



File # E86876

## UL/CUR RATINGS

| Load Type     | Form 1A<br>SPST NO | Form 1C<br>SPDT   |
|---------------|--------------------|-------------------|
| High Capacity | 16 Amps @ 250 VAC  | 10 Amps @ 250 VAC |
| General Use   | 16 Amps @ 250 VAC  | 10 Amps @ 250 VAC |
|               | 16 Amps @ 30 VDC   | 10 Amps @ 30 VDC  |

## CONTACT DATA

|                            |                                          |                                |
|----------------------------|------------------------------------------|--------------------------------|
| Material                   | AgCdO (Silver Cadmium Oxide)             |                                |
|                            | AgSnOInO (Silver Tin Oxide Indium 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              | 10 ms. Max.                                             |
| Release Time              | 5 ms. Max.                                              |
| Insulation Resistance     | 1000 megohms min, at 500VDC, 50%RH                      |
| Dielectric Strength       | 1500 Vrms, 1 min. between coil and contacts             |
|                           | 1000 Vrms, 1 min. between open contacts                 |
| Shock Resistance          | 10 g, 11ms, functional; 100 g, destructive              |
| Vibration Resistance      | DA 1.6 mm, 10 - 55 Hz                                   |
| Power Consumption         | .2W & .45W                                              |
| Ambient Temperature Range | -40 to 85 C operating for class B, -40 to 130 C storage |
| Weight                    | 10 grams approx.                                        |

## ORDERING INFORMATION

|                   |                                        |     |     |   |    |    |
|-------------------|----------------------------------------|-----|-----|---|----|----|
| Example:          | PC376                                  | -1C | -12 | S | -H | -X |
| Model:            | PC376                                  |     |     |   |    |    |
| Contact Form:     | 1A, 1C                                 |     |     |   |    |    |
| Coil Voltage:     | 3, 5, 6, 9, 12, 18, 24, 48             |     |     |   |    |    |
| Enclosure:        | S: Sealed; C: Flux Free                |     |     |   |    |    |
| Coil Sensitivity: | Nil: Standard .45 W, H: Sensitive .2 W |     |     |   |    |    |
| RoHS Compliant:   | -X                                     |     |     |   |    |    |

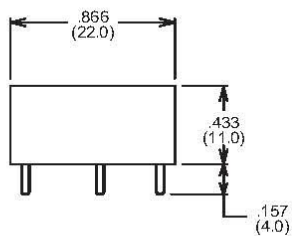
Box Quantity: 2,000; Inner Box 1,000

## COIL DATA

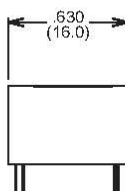
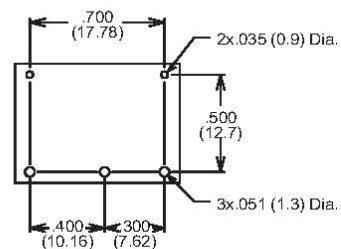
| Coil Voltage | Resistance ohms $\pm$ 10% |        |                |        | Must Operate<br>Voltage Max.<br>(VDC) | Must Release<br>Voltage Min.<br>(VDC) |
|--------------|---------------------------|--------|----------------|--------|---------------------------------------|---------------------------------------|
|              | Standard Coil             |        | Sensitive Coil |        |                                       |                                       |
| 3            | 20                        | 0.45 W | 45             | 0.20 W | 2.25                                  | 0.15                                  |
| 5            | 55                        |        | 125            |        | 3.75                                  | 0.25                                  |
| 6            | 80                        |        | 180            |        | 4.50                                  | 0.30                                  |
| 9            | 180                       |        | 400            |        | 6.75                                  | 0.45                                  |
| 12           | 320                       |        | 720            |        | 9.00                                  | 0.60                                  |
| 18           | 720                       |        | 1620           |        | 13.50                                 | 0.90                                  |
| 24           | 1280                      |        | 2800           |        | 18.00                                 | 1.20                                  |
| 48           | 5120                      | 0.45 W | 9216           | 0.25 W | 38.4                                  | 2.40                                  |

## Dimensions in Inches (millimeters)

Side View



End View

Bottom View  
PC Board Layout

Wiring Diagram

