

## Subminiature PCB Power Relay

## PC435



### FEATURES

- 10 Amp continuous contact capacity
- 1 Form A & 1 form C contact forms
- Subminiature design
- Class "B" insulation standard
- Sensitive version available
- 4 Kv dielectric between coil and contacts
- Sealed, immersion cleanable



File # E93379

### UL/CUR RATINGS

| Load Type   | Normally Open Contact    | Normally Closed Contact  |
|-------------|--------------------------|--------------------------|
| General Use | 10 Amps @ 125 VAC        | 5 Amps @ 125 VAC         |
|             | 5 Amps @ 250 VAC, 30 VDC | 3 Amps @ 250 VAC, 30 VDC |
| Motor       | 1/4 HP @ 250 VAC         | —                        |
| Lamp        | TV-5                     | —                        |

### CONTACT DATA

|                            |            |                                |
|----------------------------|------------|--------------------------------|
| Material                   |            | AgCdO (Silver Cadmium 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              | 5 ms. Max.                                              |
| Insulation Resistance     | 1000 megohms min, at 500VDC, 50%RH                      |
| Dielectric Strength       | 4000 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         | .45 W                                                   |
| Ambient Temperature Range | -40 to 70 C operating for class B, -40 to 130 C storage |
| Weight                    | 7 grams approx.                                         |

### ORDERING INFORMATION

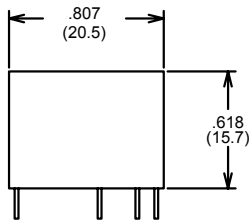
|                                                          |       |     |     |   |   |    |
|----------------------------------------------------------|-------|-----|-----|---|---|----|
| Example:                                                 | PC435 | -1C | -12 | S | F | -H |
| Model                                                    |       |     |     |   |   |    |
| Contact Form                                             |       |     |     |   |   |    |
| 1A, 1C                                                   |       |     |     |   |   |    |
| Coil Voltage                                             |       |     |     |   |   |    |
| Enclosure                                                |       |     |     |   |   |    |
| S: Sealed; C: Flux Free                                  |       |     |     |   |   |    |
| Insulation System                                        |       |     |     |   |   |    |
| Nil: Class B (155 degrees C), F: Class F (125 degrees C) |       |     |     |   |   |    |
| Coil Sensitivity                                         |       |     |     |   |   |    |
| Nil: Standard .45 W, H: Sensitive .2 W                   |       |     |     |   |   |    |

COIL DATA

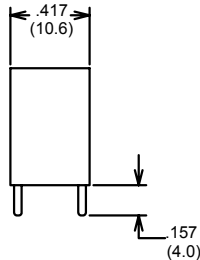
| Coil Voltage | Resistance ohms ± 10% |        |                |        | Must Operate<br>Voltage Max.<br>(VDC) | Must Release<br>Voltage Min.<br>(VDC) |
|--------------|-----------------------|--------|----------------|--------|---------------------------------------|---------------------------------------|
|              | Standard Coil         |        | Sensitive Coil |        |                                       |                                       |
| 3            | 20                    | 0.45 W | 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                                  |

Dimensions in Inches (millimeters)

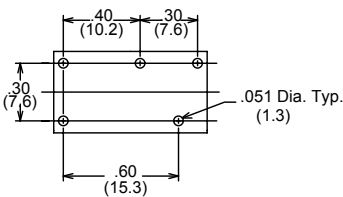
Side View



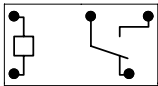
End View



Bottom View  
PC Board Layout



Wiring Diagram



Notes:  
Contact Form C shown  
On Contact Forms A & B Unused Pins are Omitted  
Tolerances  $\pm$  .010 unless otherwise noted



3220 Commander Drive, Suite 102, Carrollton, Texas 75006

Sales: Call Toll Free (888) 997-3933 Fax (818) 342-5296 email: pickerwest@sbcglobal.net URL: pickercomponents.com