

## 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
- 8mm spacing between contacts and coil
- Sealed, immersion cleanable
- **Now available Lead Free & RoHS Compliant**



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	3 Amps @ 250 VAC
	5 Amps @ 30 VDC	3 Amps @ 30 VDC
	4.2 Amps @ 277 VAC	2 Amps @ 277 VAC
Motor	1/4 HP @ 250 & 277 VAC	—
Tungsten 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:

Model

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 .2 W

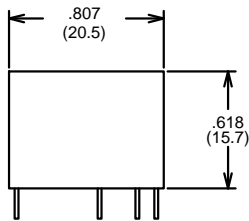
RoHS Compliant  
Nil: Not RoHS, -X: RoHS Compliant

**COIL DATA**

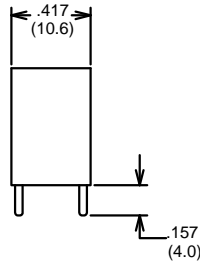
Coil Voltage	Resistance ohms $\pm 10\%$				Must Operate Voltage Max. (VDC)	Must Release Voltage Min. (VDC)
	Standard Coil		Sensitive Coil			
3	20	0.45 W	45	0.20 W	2.25	0.15
5	56		125		3.75	0.25
6	80		180		4.50	0.30
9	180		405		6.75	0.45
12	320		720		9.00	0.60
18	720		1620		13.50	0.90
24	1280		2880		18.00	1.20

**Dimensions in Inches (millimeters)**

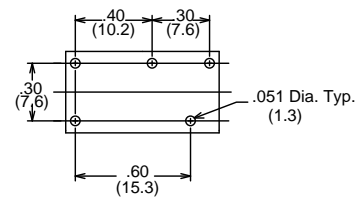
**Side View**



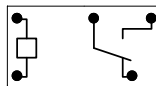
**End View**



**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



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