

## 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

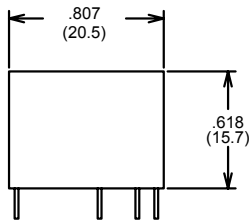
Example:	PC435	-1C	-12	S	F	-H
Model						
Contact Form						
1A, 1C						
Coil Voltage						
Enclosure						
S: Sealed; C: Flux Free						
Insulation System						
Nil: Class B (155 degrees C), F: Class F (125 degrees C)						
Coil Sensitivity						
Nil: Standard .45 W, H: Sensitive .2 W						

COIL DATA

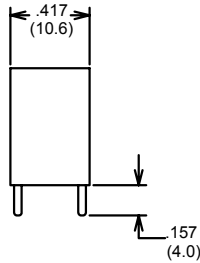
Coil Voltage	Resistance ohms ± 10%				Must Operate Voltage Max. (VDC)	Must Release Voltage Min. (VDC)
	Standard Coil		Sensitive Coil			
3	20	0.45 W	45	0.20 W	2.25	0.15
5	55		125		3.75	0.25
6	80		180		4.50	0.30
9	180		400		6.75	0.45
12	320		720		9.00	0.60
18	720		1620		13.50	0.90
24	1280		2800		18.00	1.20

Dimensions in Inches (millimeters)

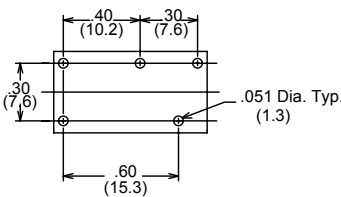
Side View



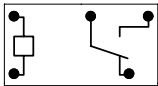
End View



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



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