

## 10 Amp Low Profile PCB Power Relay

## PC432



### FEATURES

- 10 Amp continuous contact capacity
- 1 Form A & 1 form C contact forms
- Smallest 10 Amp relay
- Class "B" insulation standard
- 3.5 Kv dielectric between coil and contacts
- Sealed, immersion cleanable
- **Now available Lead Free & RoHS Compliant**



File # E93379

### UL/CSA RATINGS

Load Type	All Forms All Contacts
General Use	10 Amps @ 125 VAC, 5 Amps @ 250 VAC @ 30 VDC
Resistive	10 Amps @ 125 VAC, 5 Amps @ 250 VAC @ 30 VDC
TV	5 Amps @ 125 VAC
Motor	1/4 HP @ 250 VAC

### CONTACT DATA

Material	AgCdO (Silver Cadmium Oxide) AgSnOInO (Silver Tin 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

Note: Sensitive relay (0.2 W) rated 3 Amps 250 VAC/30 VDC

### CHARACTERISTICS

Operate Time	10 ms. Max.
Release Time	4 ms. Max.
Insulation Resistance	100 megohms min, at 500VDC, 50%RH
Dielectric Strength	3500 Vrms, 1 min. between coil and contacts, 1 form A 2800 Vrms, 1 min. between coil and contacts, 1 form C 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	.45W or .20W
Ambient Temperature Range	-40 to 70 C operating for class B, -40 to 130 C storage
Weight	6 grams approx.

### ORDERING INFORMATION

Example:	PC432	-1C	-12	S	F	-X
Model						
Contact Form						
1A, 1C						
Coil Voltage: 3 to 24 Volts DC						
Enclosure						
S: Sealed; C: Flux Free						
Insulation Class						
Nil: UL Class B (125 degrees C), F: UL Class F (155 degrees C)						
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)	Max Operating Voltage (VDC)
3	20	2.25	0.15	3.6
5	56	3.75	0.25	6.5
6	80	4.50	0.30	7.8
9	180	6.75	0.45	11.7
12	320	9.00	0.60	15.6
18	720	13.50	0.90	23.4
24	1280	18.00	1.20	31.2

**Dimensions in Inches (millimeters)**

**1 FORM A**

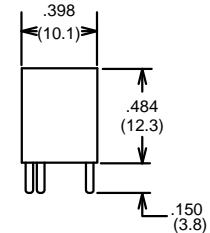
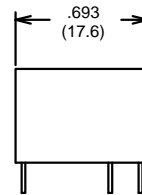
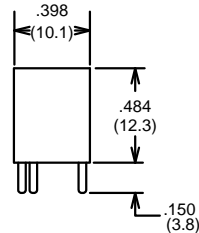
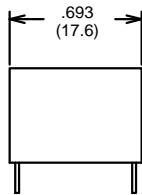
**1 FORM C**

**Side View**

**End View**

**Side View**

**End View**

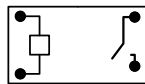
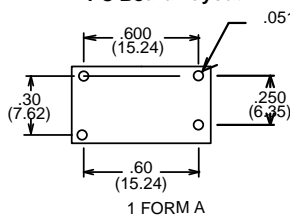


**Bottom View  
PC Board Layout**

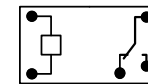
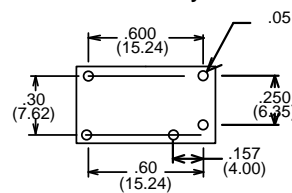
**Wiring Diagram**

**Bottom View  
PC Board Layout**

**Wiring Diagram**



1 FORM A



1 FORM C

1 FORM C

**Notes:**

Tolerances  $\pm$  .010 unless otherwise noted



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