

10 Amp Subminiature PCB Power Relay PC837



FEATURES

- 10 A @ 250 VAC Continuous Contact Capacity
- 1 Form A (SPST-NO) & 1 Form C (SPDT (B-M)) Contact Forms
- Smallest 10 Amp Relay
- Class “B” Insulation Standard
- Sensitive Version Available
- 3.5 KV Dielectric Between Coil and Contacts
- Sealed, Immersion Cleanable
- RoHS Compliant

UL / CUL Ratings Pending

Load Type	All Forms, All Contacts
General Purpose	10 Amps @ 250 VAC
Resistive	10 Amps @ 250 VAC 15 Amps @ 125 VAC

CONTACT DATA

Material	AgCdO (Silver Cadmium Oxide)	
Initial Contact Resistance	100 mΩ max.	
Max. Switching Voltage	30 VDC, 277 VAC	
Max. Switching Power	300 W, 2500 VA	
Max. Switching Current	15 A	
Service Life	Mechanical	1 X 10 ⁷ Operations
	Electrical	1 X 10 ⁵ Operations

CHARACTERISTICS

Operate Time	8 ms Max
Release Time	5 ms Max
Insulation Resistance	1,000 MΩ min. at 500 VDC
Shock Resistance	100 m/s ² , 11ms,
Terminal Strength	10 N
Power Consumption	Standard 450 mW, Sensitive 200 mW

CHARACTERISTICS Continued

Dielectric Strength	1,000 V, 50 Hz Between Contacts
	2,500 V, 50 Hz Between Contact and Coil
Vibration Resistance	10 Hz - 55 Hz DA 1.5 mm
Solderability	260°C for 5 Seconds
Operating Temperature	-40 to 70°C
Relative Humidity	95% (at 35°C)
Weight	6 grams

ORDERING INFORMATION

Example:	PC837	-1C	-12	S	F	-H	-X
Model:	PC837						
Contact Form:	1A: 1 Form A (SPST-NO); 1C: 1 Form C (SPDT (BM))						
Coil Voltage:	3: 3VDC; 5: 5 VDC; 6: 6 VDC; 9: 9 VDC; 12: 12 VDC 18: 18 VDC; 24: 24 VDC						
Enclosure:	S: Sealed Case; C: Flux Free						
Insulation System:	Nil: UL Class B (125 degrees C), F: Class F (155 degrees C)						
Coil Sensitivity:	Nil: Standard 450mW, H: Sensitive 200 mW						
RoHS Compliant:	-X						

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

COIL DATA

Coil Voltage (VDC) (1)		Coil Resistance (Ohms ± 10%)		Must Operate Voltage Max. (VDC) (2)	Must Release Voltage Min. (VDC) (2)
		Standard	Sensitive		
Rated	Max	450 mW	200 mW		
3	3.9	20	45	2.25	0.15
5	6.5	56	125	3.75	0.25
6	7.8	80	180	4.50	0.30
9	11.7	180	405	6.75	0.45
12	15.6	320	720	9.00	0.60
18	23.4	720	1,620	13.50	0.90
24	31.2	1,280	2,880	18.00	1.20

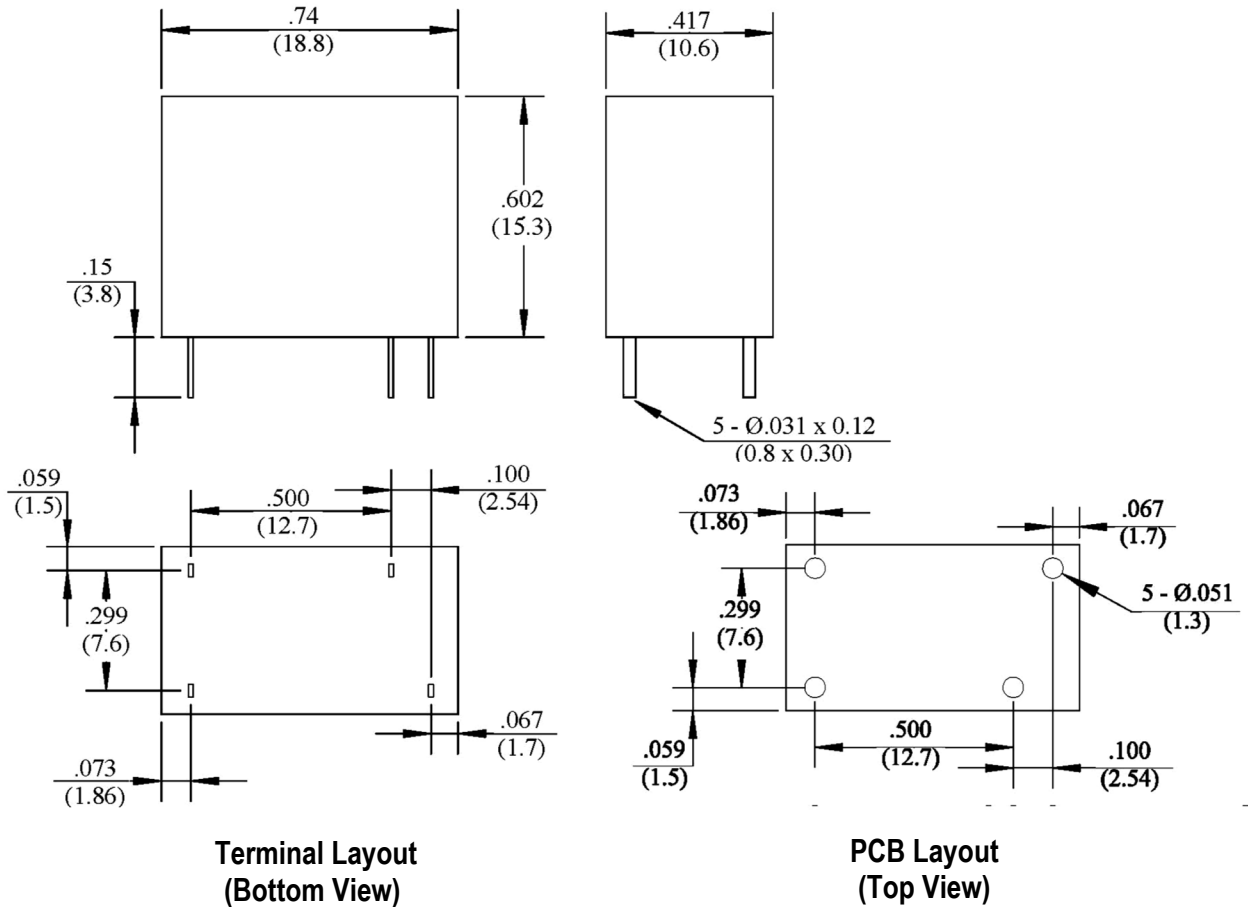
NOTES:

- (1) The use of any coil voltage less than the rated voltage will compromise the operation of the relays.
- (2) Must Operate Voltage and Must Release Voltage listed for test purposes only and is not to be used as design criteria.

DIMENSIONS in Inches (mm)

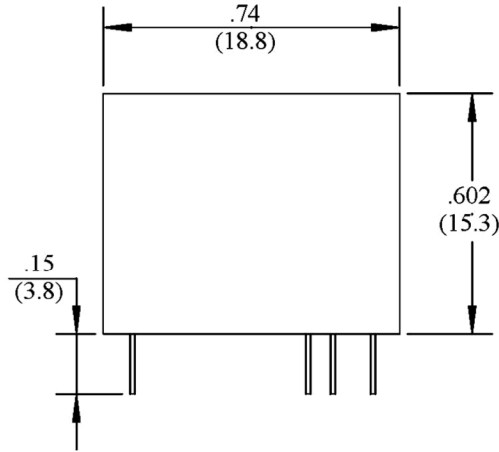
Relay 4 Pin (Front View)

Relay 4 Pin (Side View)

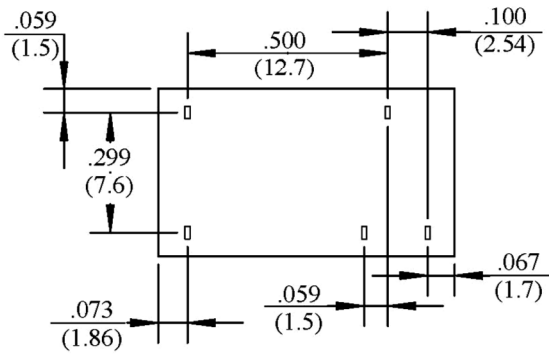
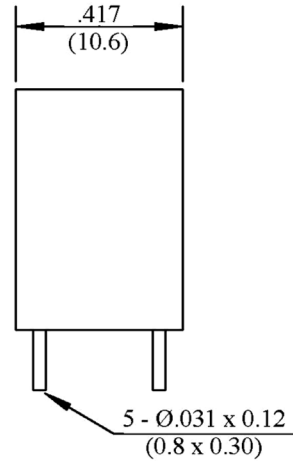


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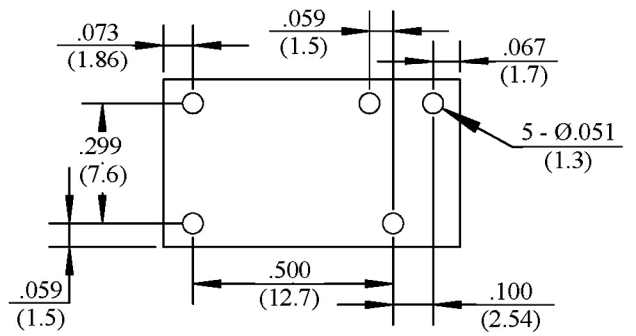
Relay 5 Pin



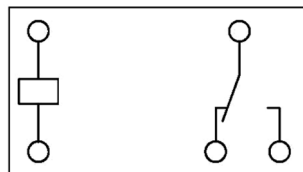
Relay 4 Pin



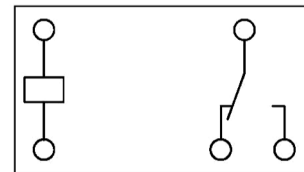
Terminal Layout
(Bottom View)



PCB 5 Pin Layout
(Top View)



1 Form A
(SPST-NO)



1 Form C
(SPDT (BM))NO

Wire Diagrams