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
- See PC835 for 10 A @ 125 VAC Version

c UL us 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/s², 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 70ºC
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

3220 Commander Drive, Suite 102 Carrollton, TX 75006 www.PickerComponents.com
Sales: (972) 713-6272 (888) 997-3933 Fax: (972)735-0964 e-mail: sales@pickercomponents.com

Dimensions are listed for reference purposes only. Specifications and Availability subject to change without notice.

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

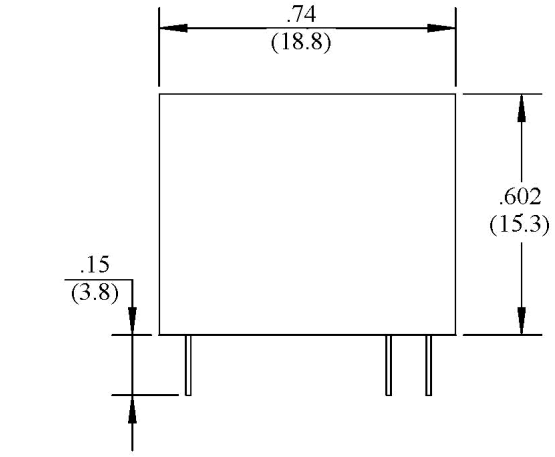
NOTES:

(1) The use of any coil voltage less that the rated voltage will compromise the operation of the relays.

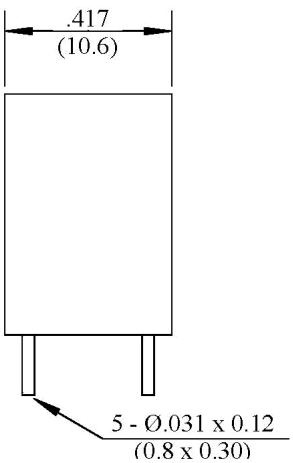
(2) Must Operate Voltage and Must Release Voltage listed for test purposes only and is not to be used as design criteria.

DIMENSIONS in Inches (mm)

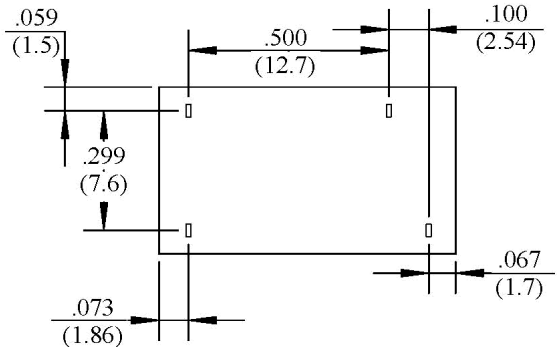
Relay 4 Pin (Front View)



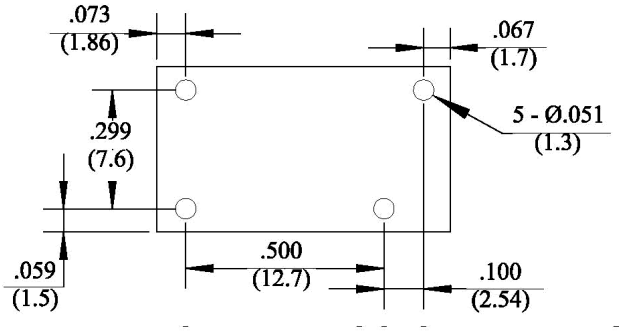
Relay 4 Pin (Side View)



Terminal Layout (Bottom View)

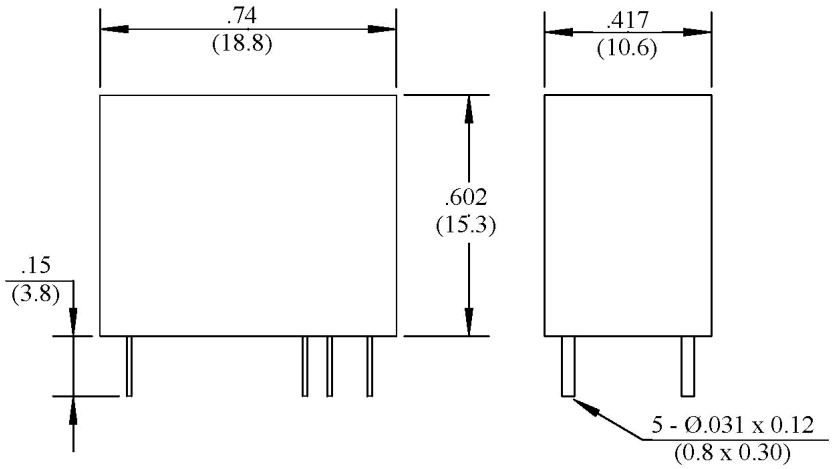


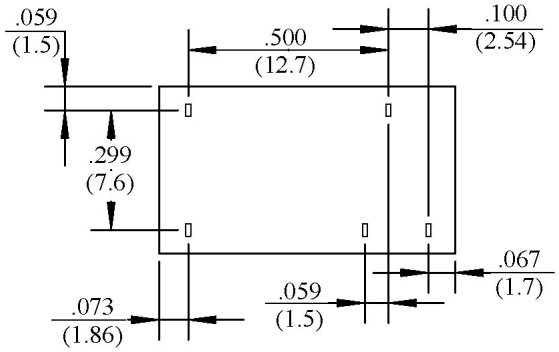
PCB Layout (Top View)



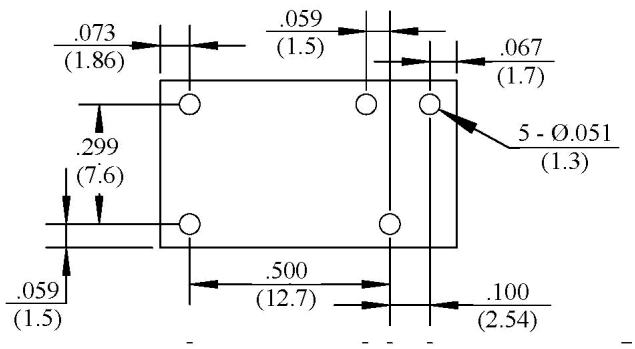
DIMENSIONS in Inches (mm)

Relay 5 Pin **Relay 4 Pin**

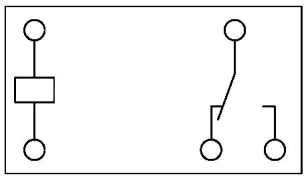




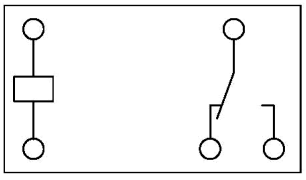
Terminal Layout
(Bottom View)



PCB 5 Pin Layout
(Top View)



1 Form A
(SPST-NO)



1 Form C
(SPDT (BM))NO)

Wire Diagrams

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