

10 Amp Subminiature PCB Power Relay

PC835



FEATURES

- 10 A 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 PC837 for 10 A @ 250 VAC Version

UL / CUL Ratings

cULus E93379

Load Type	All Forms, All Contacts
General Purpose	5 Amps @ 250 VAC 4.2 Amps @ 277 VAC
Resistive	10 Amps @ 125 VAC 5 Amps @ 240 VAC 4.2 Amps @ 277 VAC
Motor	1/4 HP 120/240/277 VAC
Tungsten Load	TV-5 @ 120 VAC
Pilot Duty	24 VA @ 24 VAC 125 VA @ 120/240/277 VAC C150 @ 120 VAC

CONTACT DATA

Material		AgCdO (Silver Cadmium Oxide)
Initial Contact Resistance		100 mΩ max.
Max. Switching Voltage		30 VDC, 277 VAC
Max. Switching Power		150 W, 1,250 VA
Max. Switching Current		10 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:	PC835	-1C	-12	S	F	-H	-X
Model:	PC835						
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

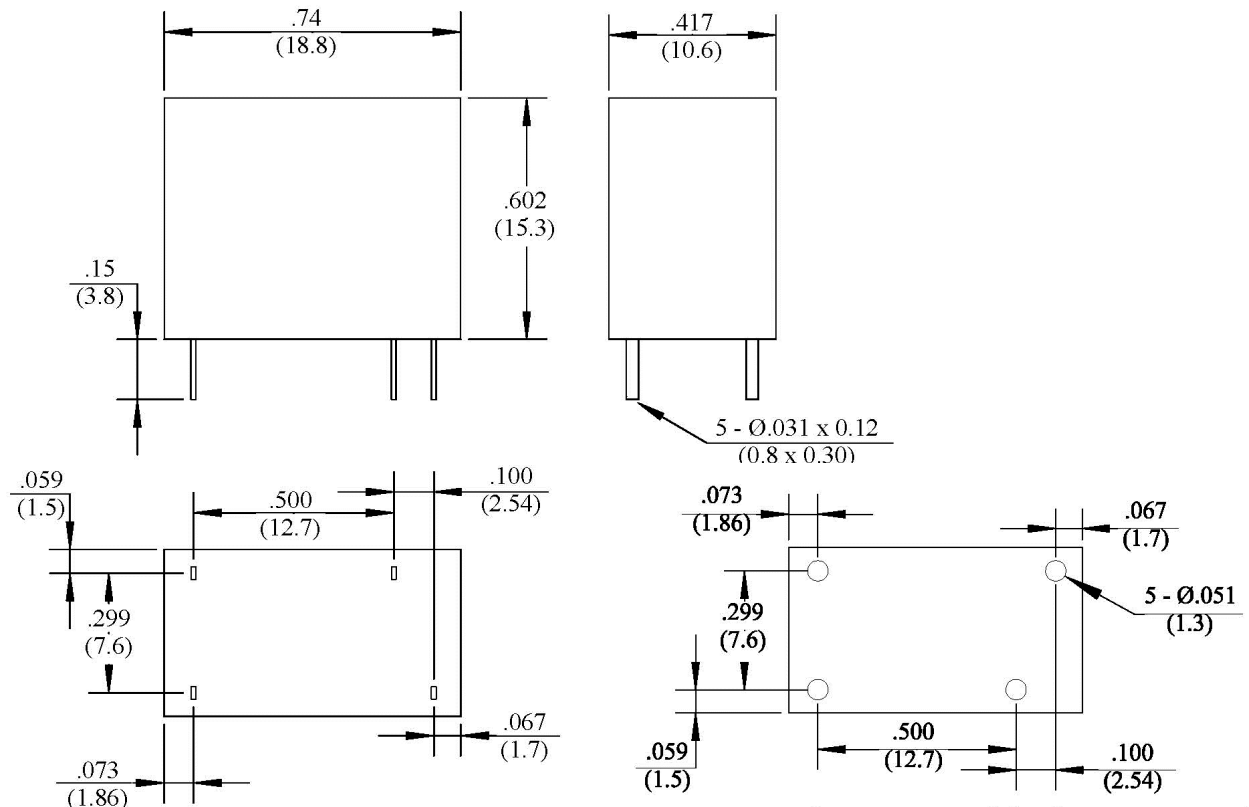
Coil Voltage (VDC) (1)		Coil Resistance (Ohms \pm 10%)		Must Operate Voltage Max. (VDC) (2)	Must Release Voltage Min. (VDC) (2)
		Standard	Sensitive		
Rated	Max	450 mW	200 mW		
3	3.9	20	45	2.25	0.15
5	6.5	56	125	3.75	0.25
6	7.8	80	180	4.50	0.30
9	11.7	180	405	6.75	0.45
12	15.6	320	720	9.00	0.60
18	23.4	720	1,620	13.5	0.90
24	31.2	1,280	2,880	18.0	1.20

NOTES:

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

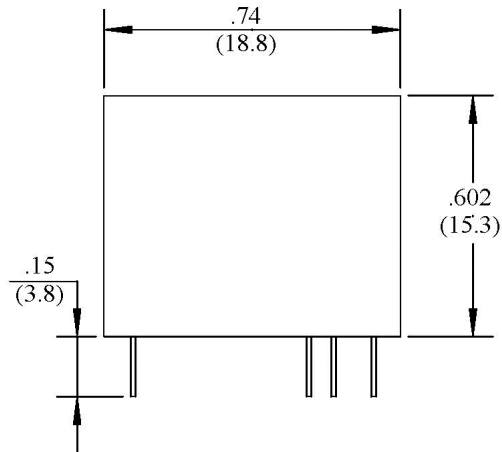
(2) Must Operate Voltage and Must Release Voltage listed for test purposes only and is not to be used as design criteria.

DIMENSIONS in Inches (mm)

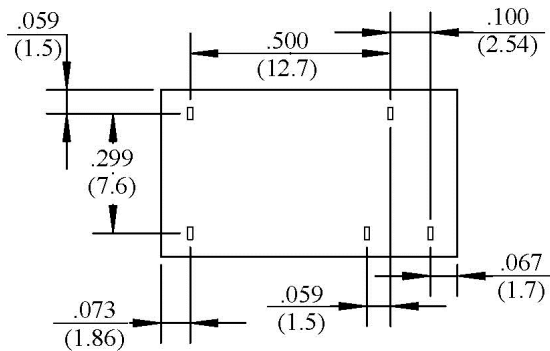
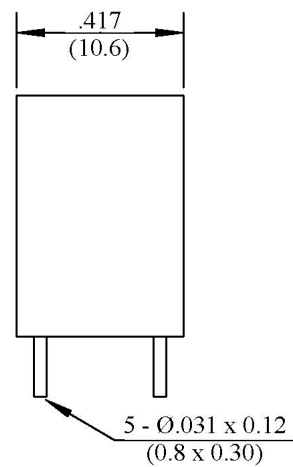
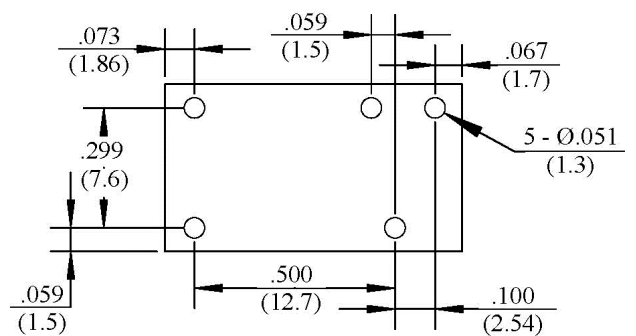
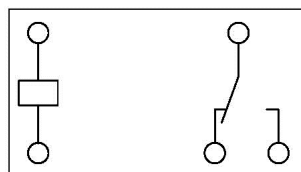
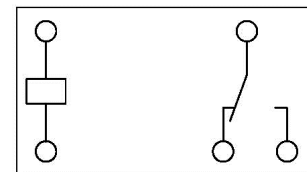
Relay 4 Pin
(Front View)Relay 4 Pin
(Side View)Terminal Layout
(Bottom View)PCB Layout
(Top View)

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