

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 "F" 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



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			

CHARACTERISTICS

Operate Time	8 ms Max		
Release Time	5 ms Max		
Insulation Resistance	1,000 M Ω min. at 500 VDC		
Shock Resistance	100 m/s², 11ms,		
Terminal Strength	10 N		
Power Consumption	Standard 450 mW, Sensitive 200 mW		

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 Continued

Diologtria Strangth	1,000 V, 50 Hz Between Contacts			
Dielectric Strength	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 105°C			
Relative Humidity	95% (at 35°C)			
Weight	6 grams			

ORDERING INFORMATION

Example:		PC835	-1C	-12	S		-H	-X
Model:	PC835							
Contact Form:	1A: 1 Form A (SPST- 1C: 1 Form C (SPDT		•					
Coil Voltage:	3: 3VDC; 5; 5 VDC; (12: 12 VDC 18: 18 VI							
Enclosure:	S: Sealed Case				_			
Insulation System:	Nil: Class F (155°C)	*				•		
Coil Sensitivity:	Nil: Standard 450m\	N, H: Sensitive	e 200 mW				-	
RoHS Compliant:	-X							-

*Note: As of January 2020 all PC835 Production is Class F

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



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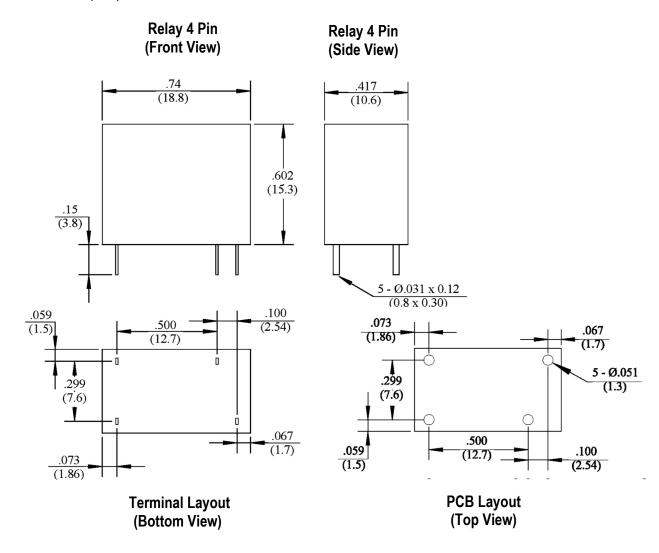
COIL DATA

Coil Voltage (VDC) <i>(1)</i>		Coil Resistance (Ohms ± 10%)		Must Operate	Must Release	
(۷)	C) (1)	Standard	Sensitive	Voltage Max. (VDC) (2)	Voltage Min. (VDC) <i>(2)</i>	
Rated	Max	450 mW	200 mW	(VDC) (2)		
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.

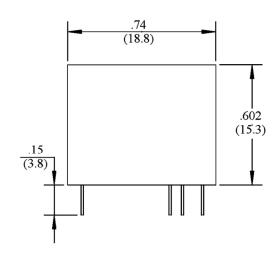
DIMENSIONS in Inches (mm)

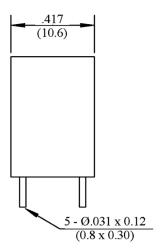


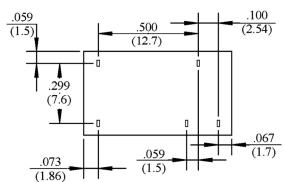
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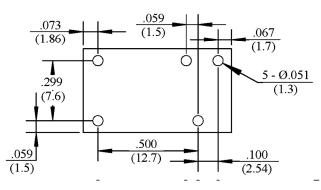


Relay 4 Pin



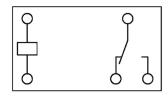




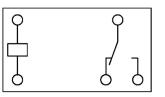


Terminal Layout (Bottom View)

PCB 5 Pin Layout (Top View)



1 Form A (SPST-NO)



1 Form C (SPDT (BM))NO)

Wire Diagrams

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