

Subminiature 10 Amp and 20 Amp PCB Power Relay

PC236



FEATURES

- Subminiature design
- 1A (SPST NO) and 1 C (SPDT) contact forms available
- 10 Amps at 125 VAC, 20 Amps at 12 VDC
- 1/2 HP at 125 VAC
- TV-5 rating
- Up to 85 degrees C operating temperature
- Both UL and Automotive approved
- **Now available Lead Free & RoHS Compliant**



File # E93379

CONTACT RATINGS

Contact Form	UL AC Ratings SPST NO or SPDT	Automotive DC Ratings SPST NO or SPDT	
	Max Switching Current	10 Amps @ 125 VAC 5 Amps @ 250 VAC	Max Switching Current
Max. Switching Voltage	250 VAC	Rated Voltage	16 VDC
Motor Load	1/2 HP @ 125 VAC	Continuous Current	25 A for 1 hr.
TV Rating	TV-5	Minimum Load	0.1 A @ 12 VDC

CONTACT DATA

Material	AgCdO (Silver Cadmium Oxide) AgSnOInO (Silver Tin Oxide Indium Oxide)	
Initial Contact Resistance	100 milliohms max @ 0.1A, 6VDC	
Service Life	Mechanical	1 X 10 ⁷ Operations
	Electrical	1 X 10 ⁵ Operations

CHARACTERISTICS

Operate Time	10 ms. MAX
Release Time	5 ms. MAX
Insulation Resistance	100 megohms min, at 500VDC, 50%RH
Dielectric Strength	1500 Vrms, 1 min. between coil and contacts
Shock Resistance	10 g, 11ms, functional; 100 g, destructive
Vibration Resistance	DA 1.5 mm, 10 - 55 Hz
Drop Resistance	1 Meter height drop on concrete
Power Consumption	Standard: 0.6 W; Large Gap: 0.8 W
Ambient Temperature Range	-30 to 85 degrees C operating, -40 to 100 storage
Weight	6 grams approx.

ORDERING INFORMATION

Example:	PC236	-1C	-12	S	F	-X
Model						
Contact Form: 1A or 1C						
Coil Voltage						
Enclosure						
S: Sealed; C: Dust Cover						
Insulation System						
Nil: Class B (125 degrees C); F: 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)
	Standard Coil		Large Gap			
6	60	0.6 W	45	0.8 W	3.6	0.6
9	135		100		5.4	0.9
12	240		180		7.3	1.2
24	960		720		14.4	2.4

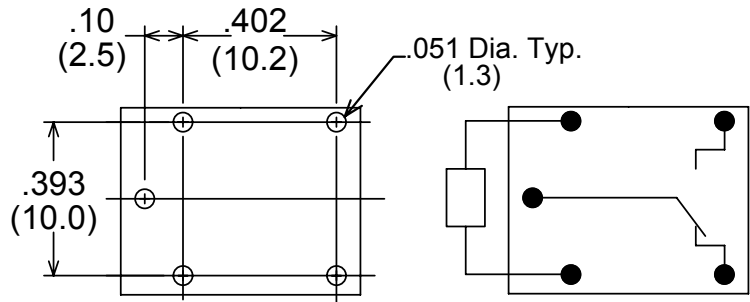
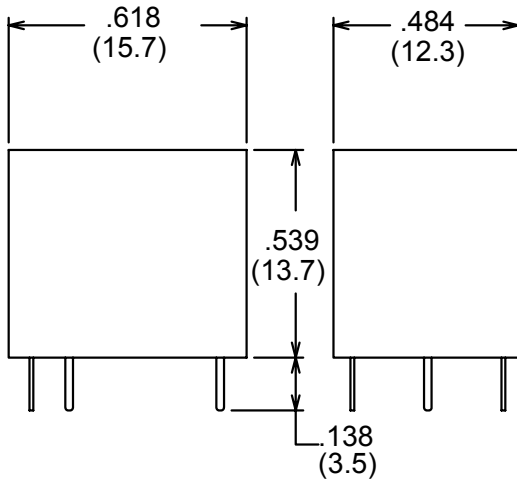
**Dimensions in Inches (millimeters)
Drawings are 2X actual size**

Side View

End View

**Bottom View
PC Board Layout**

Wiring Diagram



Notes:
Contact Form C shown
On Contact Forms A & B Unused Pins are Omitted
Tolerances $\pm .010$ unless otherwise noted



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