

10 Amp & 20 Amp Subminiature PCB Relay PC236



FEATURES

- Subminiature Design
- 10 Amps at 120 VAC, 20 Amps at 14 VDC
- 1/2 HP at 125 VAC
- TV-5 Rating
- Designed for Automotive and Power Applications
- RoHS Compliant



Contact Form	1 Form C	
	NO (SPST)	NC (SPDT)
Contact Rating	20 A @ 14 VDC	10 A @ 14 VDC
Resistive Load	10 A @ 120 VAC	—————
Motor Load	1/2 HP 125 VAC	
TV Rating (25K Cycles)	TV-5 (50 A Inrush Current a 120 VAC)	
Minimum Load	0.1 A @ 12 VDC	

CONTACT DATA

Max. Switching Power	280W 1,250 VA	
Max. Switching Voltage	42 VDC 380 VAC	
Max. Switching Current	30 Amps	
Material	AgSnO ₂ , AgCdO	
Initial Contact Resistance	50 mΩ Max	
Service Life	Electrical	1 x 10 ⁵ Operations
	Mechanical	1 x 10 ⁷ Operations

***** FOR AUTOMOTIVE APPLICATIONS*****

CONTACT RATINGS 14 VDC at 25°C

Contact Form	1 Form A	1 Form C	
	NO (SPST)	NO (SPST)	NC (SPDT)
Max Switching Current	Make 90 A	Make 60 A	Make 45 A
	Break 30 A	Break 20 A	Break 15 A
Max Continuous Current	30 A @ 25° C	20 A @ 25° C	15 A @ 25° C
	22.5 A @ 85° C	15 A @ 85° C	11.3 A @ 85° C
Max Continuous Current 1 Form U	2 X 10 Amps		
Max. Switching Power	420 W 1,250 VA		
Max. Switching Voltage	42 VDC 380 VAC		
Minimum Load	0.1 A @ 12 VDC		

CONTACT RATINGS 28 VDC at 25°C

Contact Form	1 Form A	1 Form C	
	NO (SPST)	NO (SPST)	NC
Max Switching Current	Make 45 A	Make 30 A	Make 22.5 A
	Break 15A	Break 10 A	Break 7.5 A
Max Continuous Current	15A @ 25° C	10 A @ 25° C	7.5 A @ 25° C
	11.3 A @ 85° C	7.5 A @ 85° C	5.6 A @ 85° C
Max Continuous Current 1 Form U	2 X 5 Amps		
Max. Switching Power	420 W 1,250 VA		
Max. Switching Voltage	42 VDC 380 VAC		
Minimum Load	0.1 A @ 12 VDC		

ORDERING INFORMATION

Example:	PC236	-1C	-12	S	O.8	-X
Model:	PC236					
Contact Form:	1A, 1C, 1U					
Coil Voltage:	6, 9, 12, 24					
Contact Material:	Nil: AgSnO₂; Cd: AgCdO					
Enclosure:	C: Dust Cover; S: Sealed; S1: Flux Tight⁽¹⁾					
Coil Power:	Nil: 0.6 W; 0.8: 0.8 W					
Insulation System:	Nil: Class F(155°C Material)					
RoHS Compliant:	-X					

(1) Flux Tight relays are constructed such that Flux will not enter the relay in an automated soldering process, they are NOT suitable for water wash cleaning.

Box Quantity 2000: Inner Box 1000

COIL DATA

Coil Voltage (VDC)		Coil Power		Must Operate Voltage Max. (VDC)	Must Release Voltage Min. (VDC)
		Resistance ohms ± 10%			
Rated	Max	600 mW (Standard)	800 mW (Large Gap)		
6	6.6	60	45	4.5	0.30
9	9.9	135	100	7.2	0.45
12	13.2	240	180	9.6	0.60
24	26.4	960	720	19.2	1.20

NOTES:

The use of any coil voltage less than the rated voltage will compromise the operation of the relays.
 Must Operate Voltage is listed for test purposes only and is not to be used as design criteria.
 Pickup and release voltages are for test purposes only and are not to be used as design criteria.

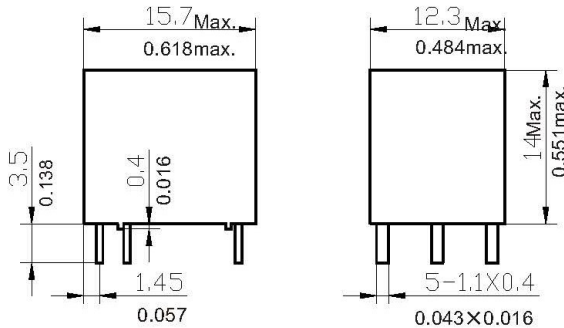
CHARACTERISTICS

Operate Time	10 ms Max.
Release Time	5 ms Max.
Insulation Resistance	100 MΩ Min at 500VDC
Dielectric Strength	50Hz 500 V Between Contacts
	50Hz 500 V Between Contact and Coil
Terminal Strength	10 N
Power Consumption	0.6 W, 0.8 W

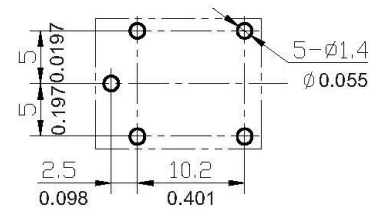
CHARACTERISTICS CONTINUED

Shock Resistance	100 m/s ² 11ms
Vibration Resistance	10 Hz - 55 Hz Double Amplitude 1.5
Solderability	260°C for 5 seconds
Operating Temperature Range	-40 to 85° C
Storage Temperature Range	-40 to 100° C
Relative Humidity	85% at 20° C
Weight	6 grams

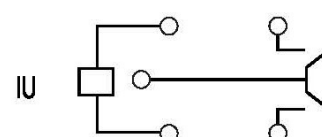
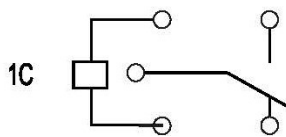
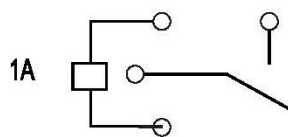
Dimensions are in mm, Inches are listed for reference only.



Dimensions

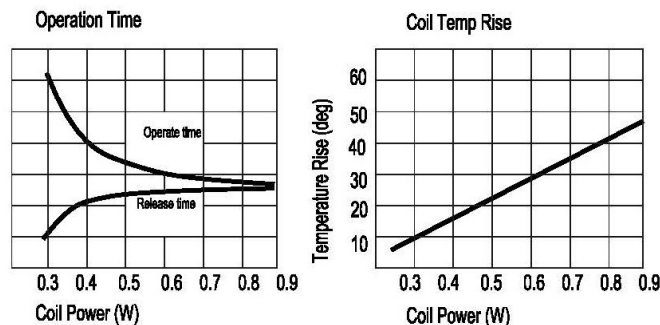


Mounting (Bottom view)



Wiring diagram (Bottom view)

CHARACTERISTIC CURVES



3220 Commander Drive, Suite 102 Carrollton, TX 75006
 Sales: (972) 713-6272 (888) 997-3933 Fax: (972) 735-0964

www.PickerComponents.com
 e-mail: sales@pickercomponents.com

Dimensions are listed for reference purposes only.

Specifications and Availability subject to change without notice.