

# **Ultraminiature 60 Amp Automotive PCB Power Relay**



#### CONTACT RATING 14 VDC @ 25°C

Contact	1 Form A or 1 From C			
Contact	Normally Open Normally Close			
Rated Load (Resistive)	30 A/14 VDC 25 A/14 VDC			
Max. Switching Current	Make 100 A*			
	Break 40 A			
Max. Switching Voltage	28 VDC			
Max. Continuous Current	30 A	25 A		
Max. Switching Power	420 W			
Minimum Load	0.5 A @ 12 VDC			

\*Peak Inrush Cold Filament

#### **CHARACTERISTICS**

Operate Time	4 ms typical
Release Time	1.5 ms typical
Insulation Resistance	1000 $M\Omega$ min, at 500 VDC, 50% RH
Dielectric Strength	500 V 50 Hz between Coil and Contacts
	500 V 50 Hz between Contacts
Shock Resistance	300 m/s <sup>2</sup> 6ms
Vibration Resistance	10 Hz - 500 Hz, DA 1.27 mm 60 m/s <sup>2</sup>
Terminal Strength	10N
Solderability	235 °C ± 2°C 3 s ± 0.5 s
Power Consumption	0.55 W, 0.57 W

#### **ORDERING INFORMATION**

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Example:	PC537	-1C	-12	S	-N	-X
Model: PC537						
Contact Form: 1A or	1C					
Coil Voltage: 10, 12, 2	24					
Case Style: C: Dust C	over; <b>S</b> : Se	aled				
Contact Material: Nil:	AgSnO <sub>2</sub> ; N:	AgNi; <b>C</b>	: AgSnO	2 <b>+ Au (Cla</b>	ad)	
RoHS Compliant: -X						

Box Quantity 2000: Inner Box 1000



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Dimensions are listed for reference purposes only. PC537 Rev H 8/05/2017

## FEATURES

- Ultra Miniature Design •
- 1 A (SPST NO) and 1 C (SPDT) Contacts Forms Available •
- Contact Switching Capacity Up to 100 A •
- Sealed, Immersion Cleanable •
- -40 to105 Degrees C Operation Temperature •
- **RoHS** Compliant
- Available as a Dual See PC549

## CONTACT RATING 28 VDC @ 25°C

Contact	1 Form A or 1 From C		
Contact	Normally Open	Normally Closed	
Rated Load (Resistive)	15 A/24 VDC 12.5 A/24 VDC		
Max. Switching Current	Make 50 A*		
Max. Switching Current	Break 20 A		
Max. Switching Voltage	28 VDC		
Max. Continuous Current	15 A 12.5 A		
Max. Switching Power	420 W		
Minimum Load	0.5 A @ 12 VDC		

### CONTACT DATA

Material		AgSnO <sub>2</sub> , AgNi, AgSnO <sub>2</sub> +AU		
Initial Contact Resistance		100 m $\Omega$ max @ 0.1 A, 6 VDC		
Service Life	Mechanical	1 X 10 <sup>7</sup> Operations		
	Electrical	1 X 10 <sup>5</sup> Operations		

#### CHARACTERISTICS Continued

Operating Temperature Class F	- 40 to 105°C
Storage Temperature	- 40°C to 155°C
Relative Humidity	85% at 20°C
Weight	4 grams

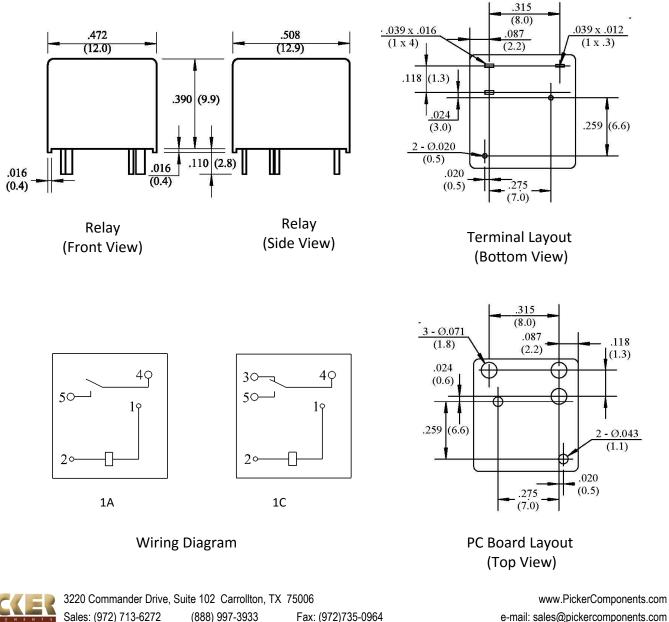
#### **COIL DATA**

Coil Voltage (VDC)		Coil Resistance ohms ± 10%	Must Operate Voltage Max.	Must Release Voltage Min.	Coil Power Con- sumption	
Rated	Max		(VDC)	(VDC)	(W)	
10	12	181	5.7	1.25	0.55	
12	14.4	254	6.9	1.5	0.57	
24	28.8	1010	13.8	3	0.57	

#### NOTES:

The use of any coil voltage less that the rated voltage will compromise the operation of the relays. Must Operate Voltage and Release Voltages are for test purposes only and are not to be used as design criteria.

## **DIMENSIONS** (mm/inches)



Dimensions are listed for reference purposes only. PC537 Rev H 8/05/2017

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Specifications and Availability subject to change without notice.