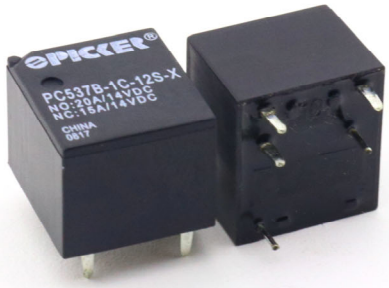
Ultraminiature 20 Amp Automotive PCB Power Relay — PC537B



FEATURES

- Ultra Miniature Design
- 1 A (SPST NO) and 1 C (SPDT) Contacts Forms Available
- Contact Switching Capacity Up to 75 A
- Sealed, Immersion Cleanable
- -40°C to 105°C Operation Temperature
- See PC537 for 30 Amp Version
- RoHS Compliant
- Available as a Dual See PC549 (30A version available)

CONTACT RATING 14 VDC @ 25°C**

Contact	1 Form A (SPST-NO) or 1 Form C (SPDT)		
	Normally Open		Normally Closed
Rated Load (Resistive)	20 A		15 A
Max. Switching Current	Make 75 A*		
	Break 30 A		
Max. Switching Voltage	28 VDC		
Max. Carry Current	20°C	30 A for 2 min	NA
		20 A For 1 Hour	NA
	85°C	25 A for 2 min	NA
		15 A for 1 Hour	NA
Max. Switching Power	280 W		
Minimum Load	0.5 A @ 12 VDC		

*Peak Inrush Cold Filament, 5 ms maximum
**See PC537 for 30 Amp Version

CONTACT RATING 28 VDC @ 25°C

Contact	1 Form A (SPST-NO) or 1 Form C (SPDT)	
	Normally Open	Normally Closed
Rated Load (Resistive)	10 A	7.5 A
Max. Switching Current	Make 37.5 A*	
	Break 15 A	
Max. Switching Voltage	28 VDC	
Max. Continuous Current	15 A	10 A
Max. Switching Power	280 W	
Minimum Load	0.5 A @ 12 VDC	

CONTACT DATA

Material		$AgSnO_2$, AgNi, $AgSnO_2$+Au
Initial Contact Resistance		100 mΩ max @ 0.1 A, 6 VDC
Service Life	Mechanical	1 X 10^7 Operations
	Electrical	1 X 10^5 Operations

CHARACTERISTICS

Operate Time	4 ms max.
Release Time	1.5 ms max
Insulation Resistance	1,000 MΩ min, at 500 VDC
Dielectric Strength	500 V 50 Hz between Coil and Contacts 500 V 50 Hz between Contacts
Shock Resistance	300 m/s² 6ms
Vibration Resistance	10 Hz - 500 Hz, DA 1.27 mm 60 m/s²
Power Consumption	10V at 0.55 W, 12V and 24V at 0.57 W

CHARACTERISTICS Continued

Terminal Strength	10N
Solderability	255°C ± 2°C 3 s ± 0.5 s
Operating Temperature Class F	-40 to 105°C
Storage Temperature	-40°C to 155°C
Relative Humidity	85% at 20°C
Weight	4 grams

ORDERING INFORMATION

Example:	PC537B	-1C	-12	S	-N	-X

Model: **PC537B**
Contact Form: **1A:** 1 Form A (SPST-NO)
1C: 1 Form C (SPDT)
Coil Voltage: **10, 12, 24**
Case Style: **C**: Dust Cover; **S**: Sealed
Contact Material: **Nil**: $AgSnO_2$; **N**: AgNi; **G**: $AgSnO_2$ + Au (Clad)
RoHS Compliant: **-X**

Box Quantity 2000: Inner Box 1000

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Dimensions are listed for reference purposes only.
Specifications and Availability subject to change without notice.

COIL DATA

Coil Voltage (VDC) *(1)*		Coil Resistance ohms ± 10%	Must Operate Voltage Max. (VDC)*(2)*	Must Release Voltage Min. (VDC) *(2)*	Coil Power Consumption (W)
Rated	Max				
10	12	181	5.7	1.25	0.55
12	14.4	254	6.9	1.5	0.57
24	28.8	1,010	13.8	3	0.57

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 Release Voltages are for test purposes only and are not to be used as design criteria.

DIMENSIONS (mm/inches)