

Ultraminiature 30 Amp Automotive PCB Power Relay

PC537



FEATURES

- Ultra Miniature Design Very Light Weight
- 1 A (SPST NO) and 1 C (SPDT) Contacts Forms Available
- Contact Switching Capacity Up to 100 A
- Sealed, Immersion Cleanable
- -40 to 105 Degrees C Operation Temperature
- Constructed with UL Class F Materials
- Available as a Dual See PC593
- RoHS Compliant

CONTACT RATING* 14 VDC @ 25°C

Contact	1 Form A or 1 Form C	
	Normally Open	Normally Closed
Rated Load (Resistive)	30 A/14 VDC	25 A/14 VDC
Max. Switching Current	Make 100 A	
	Break 30 A	
Max. Switching Voltage	24 VDC	
Max. Continuous Current	30 A	25 A
Max. Switching Power	420 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

*Note: At 24 VDC the Current Ratings are one half those listed for 14 VDC

CHARACTERISTICS

Operate Time	3 ms typical
Release Time	1.5 ms typical
Insulation Resistance	100 MΩ min, at 500 VDC, 50% RH
Dielectric Strength	50 Hz 500 V between Coil and Contacts
	50 Hz 500 V between Contacts
Shock Resistance	300 m/s ² 6ms
Vibration Resistance	10 Hz - 500 Hz, DA 1.27 mm 60 m/s ²
Power Consumption	0.55 W, 0.57 W

Terminal Strength	10N
Solderability	235 °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 40°C
Weight	4 grams

ORDERING INFORMATION

Example:	PC537	-1C	-12	S	-N	-X
Model:	PC537					
Contact Form:	1A or 1C					
Coil Voltage:	10, 12, 24					
Case Style:	C: Dust Cover; S: Sealed					
Contact Material:	Nil: AgSnO₂; N: AgNi; G: AgSnO₂ + Au (Clad)					
RoHS Compliant:	-X					

Box Quantity 2000: Inner Box 1000

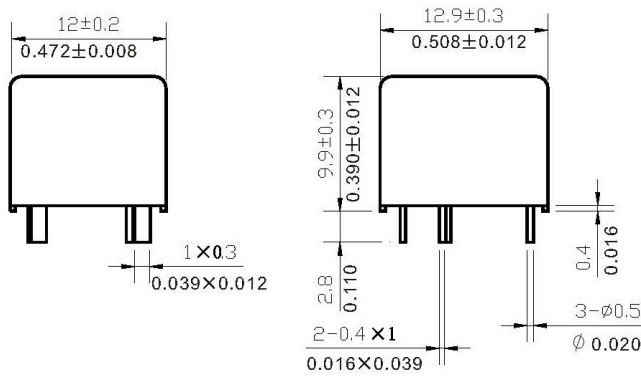
COIL DATA

Coil Voltage (VDC)		Coil Resistance ohms ± 10%	Must Operate Voltage Max. (VDC)	Must Release Voltage Min. (VDC)	Coil Power Consumption (W)
Rated	Max				
10	12	181	5.7	1.25	0.55
12	14.37.8	254	6.9	1.5	0.57
24	28.811.7	1010	13.8	3	0.57

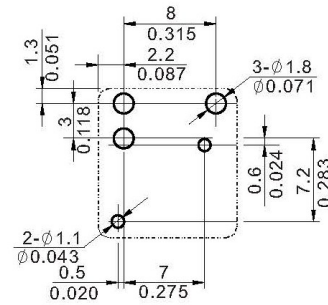
NOTES:

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

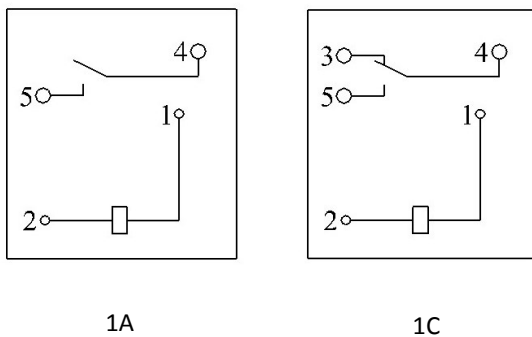
DIMENSIONS (mm/inches)



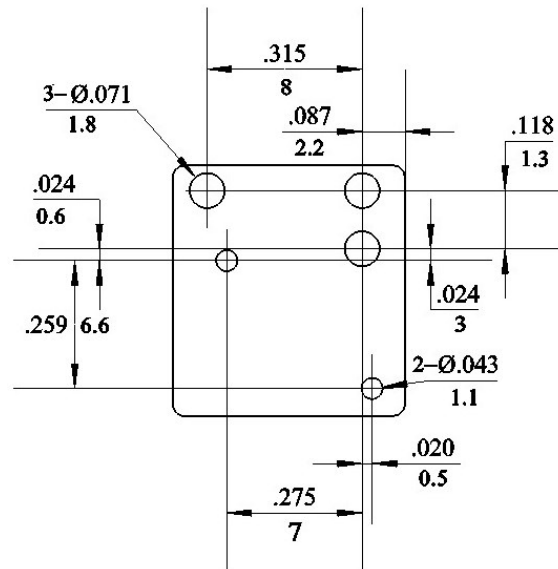
Dimensions



Mounting (Bottom View)



Wiring Diagram (Bottom View)



PC Board Layout (Top View)



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