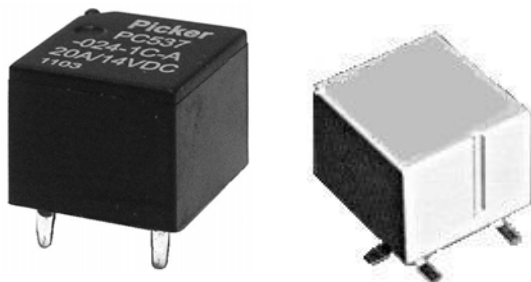


Ultraminiature Automotive PCB Power Relay

PC537



FEATURES

- Ultraminiature design very light weight
- Through hole or SMT construction
- Contact switching capacity up to 100 Amps
- Sealed, immersion cleanable
- 105 degrees C operating temperature

CONTACT RATINGS

Contact Form	1 Form A or 1 Form C SPST NO or SPDT
Max Switching Current	Make 100 Amps
	Break 30 Amps
Max. Switching Voltage	16 VDC
Max. Continuous Current	NO/30 Amps, NC/25 Amps
Minimum Load	0.5 Amps @ 12 VDC

CONTACT DATA

Material		AgNiO 15 (Silver Nickel Oxide 15%) 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	3 ms. typical
Release Time	1.5 ms. typical
Insulation Resistance	100 megohms min, at 500VDC, 50%RH
Dielectric Strength	500 Vrms, 1 min. between coil and contacts
Shock Resistance	30 g, 6 ms, functional; 100 g, destructive
Vibration Resistance	6g, 10 - 500 Hz
Drop Resistance	1 Meter height drop on concrete
Power Consumption	0.55 W
Ambient Temperature Range	-40 to 105 degrees C operating, -40 to 100 storage
Weight	4 grams approx.

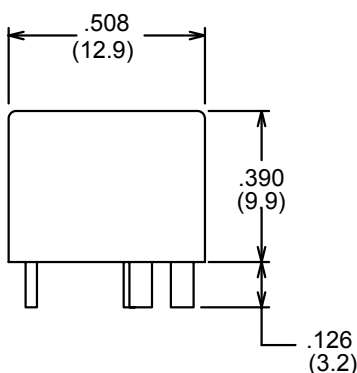
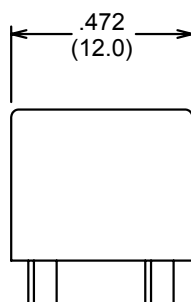
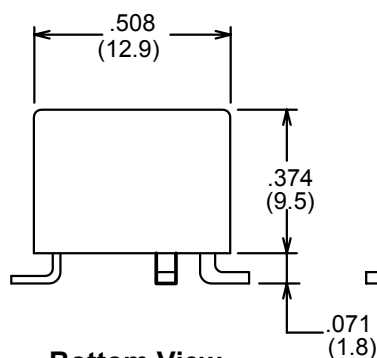
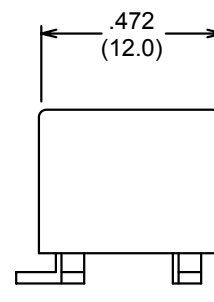
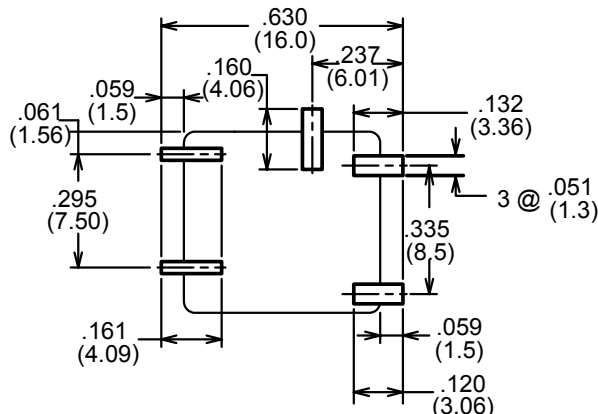
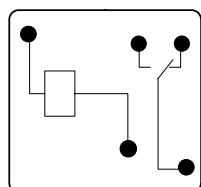
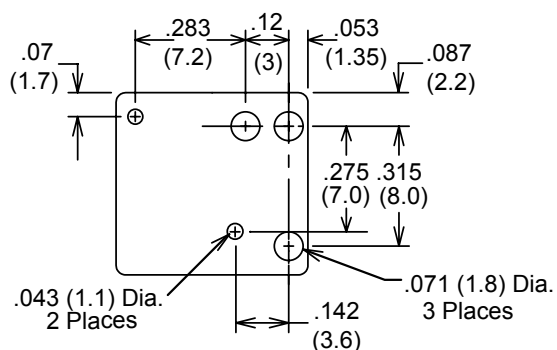
ORDERING INFORMATION

Example:	PC537	-1C	-12	S	-N	S
Model						
Contact Form						
1A or 1C						
Coil Voltage						
Case Style						
C: Dust cover; S: Sealed						
Contact Material						
Nil: AgSnOInO; C: AgCdO; N: AgNi						
Mounting Style						
Nil: Through Hole, S: SMT						

COIL DATA

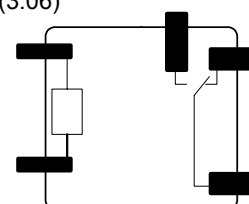
Coil Voltage	Resistance ohms $\pm 10\%$	Must Operate Voltage Max. (VDC)	Must Release Voltage Min. (VDC)	Continuous Voltage Max. (VDC)
6	64	3.5	0.75	13.6
10	181	5.7	1.25	22.7
12	254	6.9	1.5	27.2
24	1000	14.0	3.0	54.4

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

Side View
StandardEnd View
StandardSide View
SMTEnd View
SMTBottom View
Pad LayoutBottom View
PC Board LayoutBottom View
Wiring Diagram
Standard

Notes:
Contact Form C shown
On Contact Form A Unused Pin is Omitted
Tolerances $\pm .010$ unless otherwise noted
Maximum make current refers to inrush of a lamp load
In 85 degree C ambient reduce maximum coil voltage to 72%

PICKER
COMPONENTS

Bottom View
Wiring Diagram
SMT

3220 Commander Drive, Suite 102, Carrollton, Texas 75006

Sales: Call Toll Free (888) 997-3933 Fax (818) 342-5296 email: pickerwest@sbcglobal.net URL: pickercomponents.com