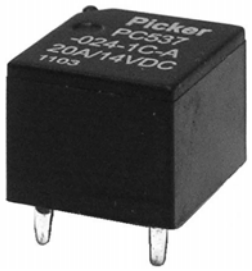
Ultraminiature Automotive PCB Power Relay **PC537**



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

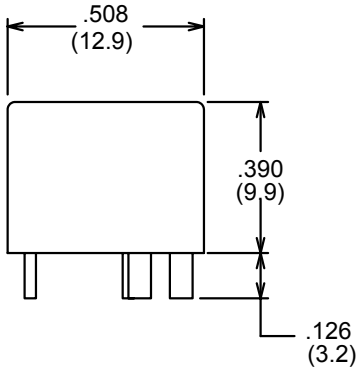
3220 Commander Drive, Suite 102, Carrollton, Texas 75006
Sales: Call Toll Free (888)997-3933 Fax (818) 342-5296 email: pickerwest@sbcglobal.net URL: pickercomponents.com

COIL DATA

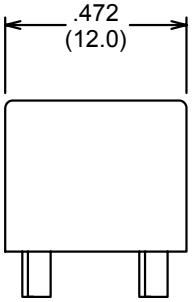
Coil Voltage	Resistance ohms ± 10%	Must Operate Voltage Max. (VDC)	Must Release Voltage Min. (VDC)	Continuous Voltage Max. (VDC)
6	64	3.5	0.75	13.6
10	181	5.7	1.25	22.7
12	254	6.9	1.5	27.2
24	1000	14.0	3.0	54.4

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

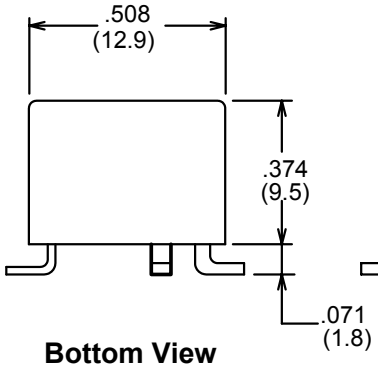
Side View Standard



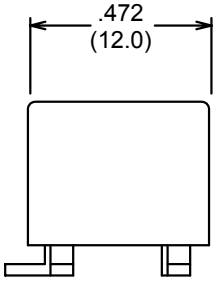
End View Standard



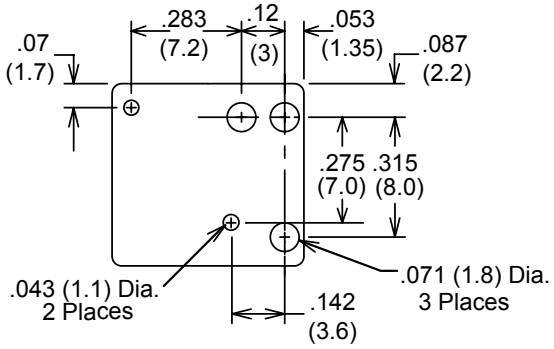
Side View SMT



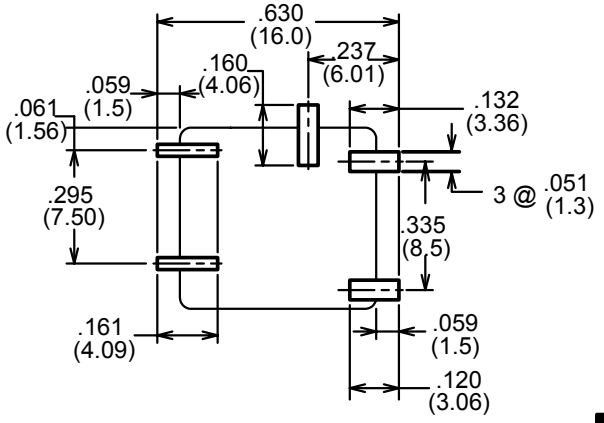
End View SMT

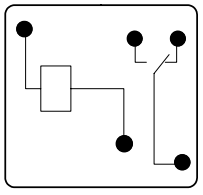


Bottom View PC Board Layout



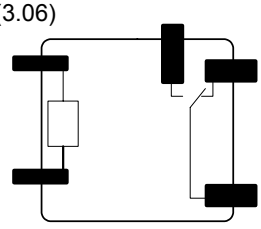
Bottom View Pad Layout





Bottom View Wiring Diagram Standard

Notes:
Contact Form C shown
On Contact Form A Unused Pin is Omitted
Tolerances ± .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%



Bottom View Wiring Diagram SMT

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