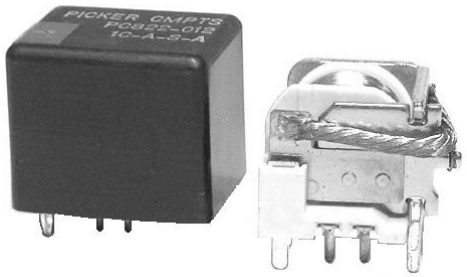
Miniature Automotive PCB Power Relay — PC822



FEATURES

- Miniature design
- 1 A, 1 B and 1 C contact forms available
- Contact switching capacity up to 100 Amps
- 45 Amps continuous carrying capacity
- Up to 125 degrees C operating temperature
- Both US and European footprints available
- Open frame, Sealed or Dust cover available

CONTACT RATINGS

Contact Form	1 Form A or 1 Form C	
	Normally Open	Normally Closed
Max Switching Current	Make 100 Amps	Make 30 Amps
	Break 60 Amps	Break 30 Amps
Max. Switching Voltage	16 VDC	16 VDC
Max. Continuous Current	45 Amps	30 Amps
Minimum Load	0.5 A @ 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	2 X 10^5 Operations

CHARACTERISTICS

Operate Time	5 ms. typical
Release Time	3 ms. typical
Insulation Resistance	100 megohms min, at 500VDC, 50%RH
Dielectric Strength	500 Vrms, 1 min. between coil and contacts
Shock Resistance	20 g, 11ms, functional; 200 g, destructive
Vibration Resistance	DA 1.5 mm, 20 - 200 Hz functional
Drop Resistance	1 Meter height drop on concrete in final enclosure
Power Consumption	1.5 W approx.
Ambient Temperature Range	-40 to 125 degrees C operating, -40 to 155 storage
Weight	Open: 18 grams; Enclosed: 23 grams approx.

ORDERING INFORMATION

Example: PC822 -1C -12 S -A T

- Model
- Contact Form 1A, 1B or 1C
- Coil Voltage
- Enclosure Nil: Open Frame; S: Sealed; C: Dust Cover
- Footprint A: US; E: European
- Contact Material Nil: AgNiO 15; C: AgCdO; T: AgSnOInO

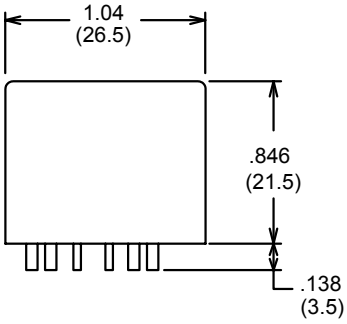
3220 Commander Drive, Suite 102, Carrollton, Texas 75006
Sales: Call Toll Free (888)997-3933 Fax (818) 342-5296 email: pickerwest@sbcglobal.net URL: pickercomponents.com

COIL DATA

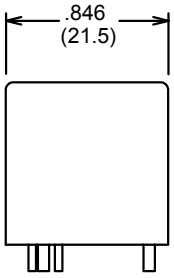
Coil Voltage	Resistance ohms ± 10%	Must Operate Voltage Max. (VDC)	Must Release Voltage Min. (VDC)	Continuous Voltage Max. (VDC)
6	19	3.3	0.6	8.9
9	54	5.1	0.9	14.5
12	90	6.8	1.2	19.3
24	362	13.9	2.4	38.7

Dimensions in Inches (millimeters)

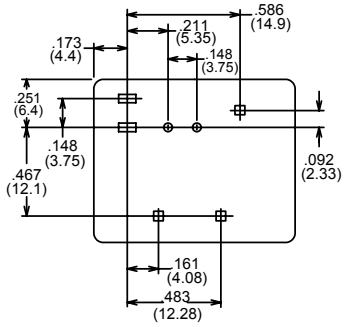
Side View



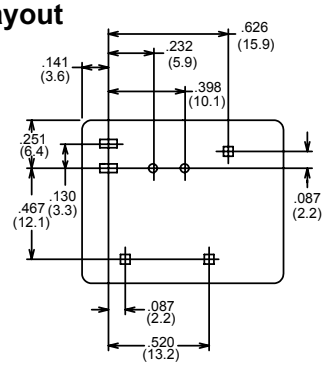
End View



Bottom View
PC Board Layout

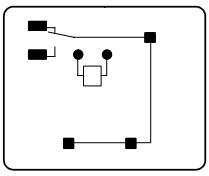


US FOOTPRINT

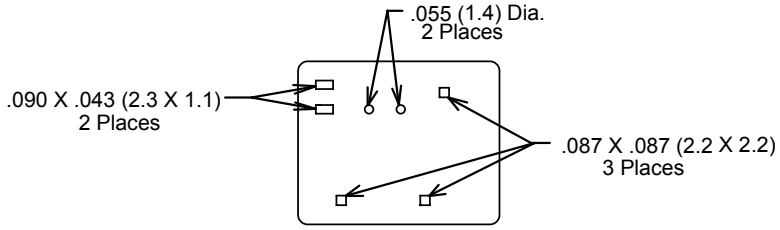


EUROPEAN FOOTPRINT

Bottom View
Wiring Diagram



Bottom View
PC Hole Sizes



Notes:
Contact Form C shown
On Contact Forms A & B Unused Pins are Omitted
Tolerances ± .010 unless otherwise noted
Maximum make current refers to inrush of a lamp load
Make current of 180 Amps permissable with AgSnOInO contacts
In 85 degree C ambient reduce maximum coil voltage to 72%

PICKER COMPONENTS

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