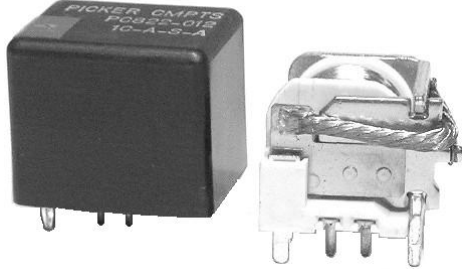


Miniature Automotive PCB Power Relay

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
- **Now available Lead Free & RoHS Compliant**

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	AgSnOInO (Silver Tin Oxide Indium Oxide) AgCdO (Silver Cadmium 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	750 Vrms, 1 min. between coil and contacts
Shock Resistance	20 g, 11ms, functional; 200 g, destructive
Vibration Resistance	DA 1.27 mm, 10 - 40 Hz functional
Drop Resistance	1 Meter height drop on concrete in final enclosure
Power Consumption	1.6 W approx.
Ambient Temperature Range	-40 to 125 degrees C operating, -40 to 155 storage
Weight	Open: 19 grams; Enclosed: 21 grams approx.

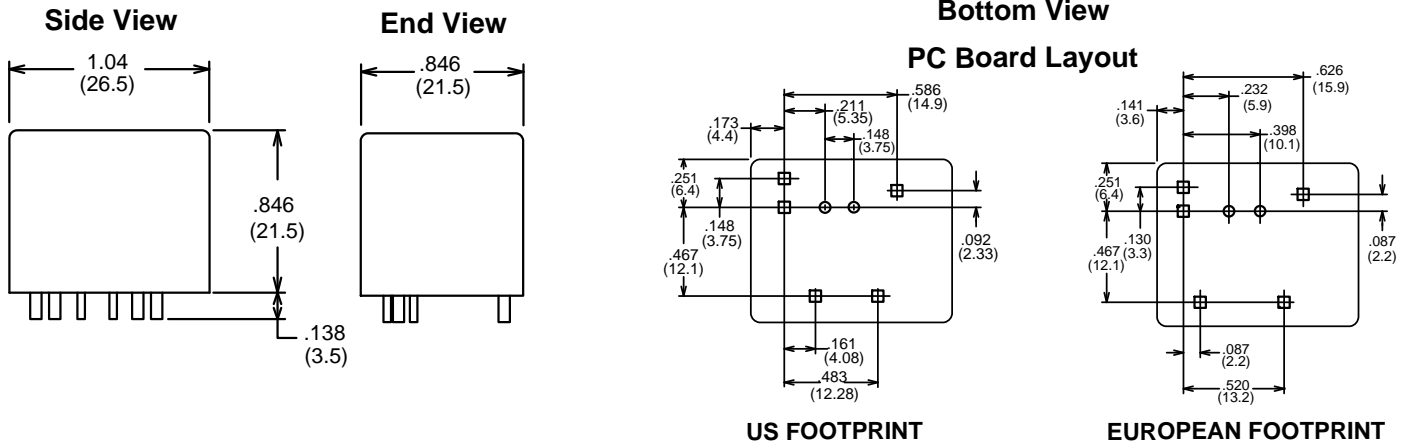
ORDERING INFORMATION

Example:	PC822	-1C	-12	S	-A	L	C	-X
Model								
Contact Form 1A, 1B or 1C								
Coil Voltage								
Enclosure Nil: Open Frame; S: Sealed; C: Dust Cover								
Footprint A: US (Narrow); A1 US with pin 4 removed; E: European (Wide)								
Coil Sensitivity Nil: Standard Pull In; L: Low Pull In								
Contact Material Nil: AgSnOInO; C: AgCdO								
RoHS Compliant Nil: Not RoHS, -X: RoHS Compliant								

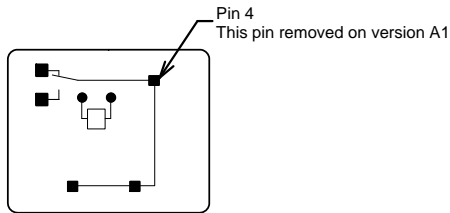
COIL DATA

Coil Voltage	Resistance ohms ± 10%	Standard Must Operate Voltage Max. (VDC)	Special Low Pull In Voltage Max. (VDC)	Must Release Voltage Min. (VDC)	Continuous Voltage Max. (VDC)
6	19	4.2	3.3	0.6	7.8
9	42.6	6.3	5.1	0.9	11.7
12	90	8.4	6.8	1.2	15.6
18	202.5	12.6	10.2	1.8	23.4
24	360	16.8	13.9	2.4	31.2

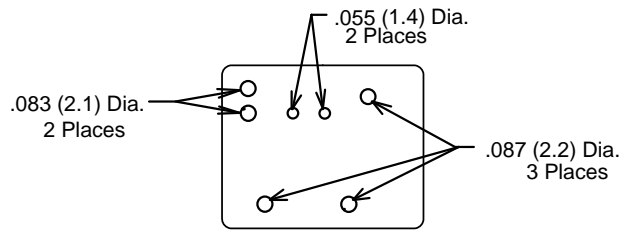
Dimensions in Inches (millimeters)



**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 permissible with AgSnInO contacts
- In 85 degree C ambient reduce maximum coil voltage to 72%



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