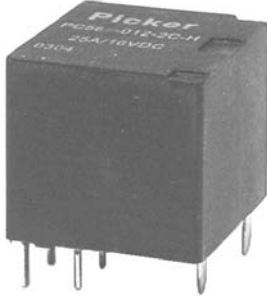


## Ultraminiature Automotive PCB Twin Power Relay

## PC566



### FEATURES

- Internal H-Bridge
- Uniquely designed for DC motor control
- Ultraminiature Design very light weight
- Sensitive Coil (low pull in voltage) available
- Contact switching capacity up to 30 Amps
- Sealed immersion cleanable
- Up to 105 degrees C operating temperature

### CONTACT RATINGS

Contact Form	2 X Form C (H-Bridge) 2 X SPDT (H-Bridge)
Max Switching Current	30 Amps
Motor Locked Rotor	25 Amps at 14 VDC
Max. Switching Voltage	16 VDC
Max. Continuous Current	25 Amps
Max. Switching Power	480 W

### CONTACT DATA

Material	AgSnO (Silver Tin Oxide)	
Initial Contact Resistance	100 milliohms max @ 0.1A, 6VDC	
Service Life	Mechanical	1 X 10 <sup>6</sup> Operations
	Electrical	1 X 10 <sup>5</sup> Operations

### CHARACTERISTICS

Operate Time	2.5 ms. typical (no coil suppression)
Release Time	1.2 ms. typical (no coil suppression)
Insulation Resistance	100 megohms min, at 500VDC, 50%RH
Dielectric Strength	1000 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	0.64 W and 0.80 W
Ambient Temperature Range	-40 to 85 degrees C or -40 to 105 degrees C operating
Weight	4.1 grams approx.

### ORDERING INFORMATION

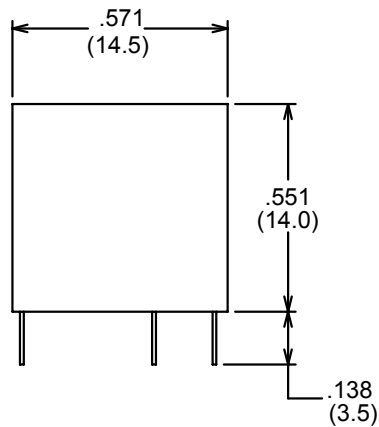
Example:	PC566	-2C	-12	H	F
Model					
Contact Form					
2C: 2 X 1C (H-Bridge)					
Coil Voltage					
Coil Power					
Nil: 0.64 W; H: Sensitive 0.80 W					
Ambient Temperature Rating					
Nil: 85 Degrees C; F: 105 Degrees C					

**COIL DATA**

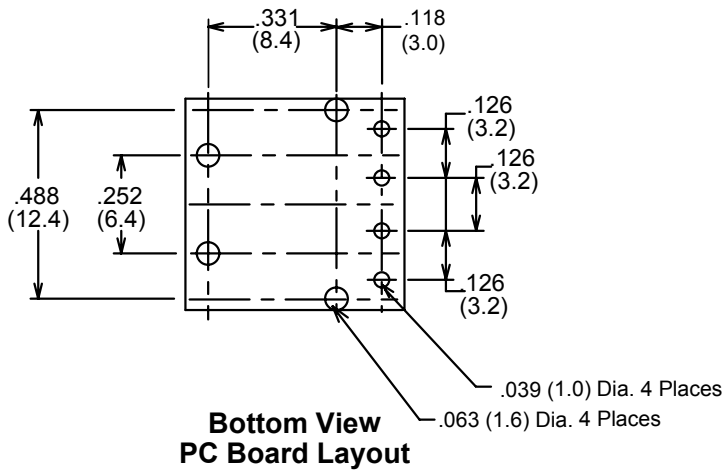
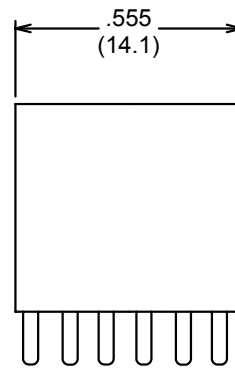
Coil Voltage	Resistance ohms $\pm$ 10%	Must Operate Voltage Max. (VDC)	Must Release Voltage Min. (VDC)	Coil Power Consumption (W)
12	225	7.2	1.0	0.64
12 (H)	180	6.5	1.0	0.80

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

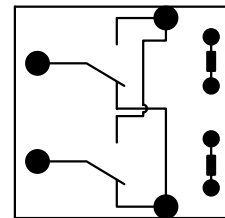
**Side View**



**End View**



**Bottom View  
PC Board Layout**



**Bottom View  
Wiring Diagram**

Notes:  
Tolerances  $\pm$  .010 unless otherwise noted



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