

# 25 Amp Ultraminiature Automotive PCB Relay

**PC565**



## FEATURES

- Ultraminiature Design
- Sensitive Coil (Low Pull In Voltage) Available
- Contact Switching Capacity up to 30 Amps
- UL Class F Insulation Available
- Sealed, Immersion Cleanable
- Fully Automated Assembly
- Class B +85°C Standard
- Class F +105°C Option
- Two Coil Powers Available
- RoHS Compliant
- Available as a Dual see **PC 567**

## CONTACT RATINGS 14 VDC

Contact Form	1 Form C (SPDT)
Max Switching Current	30 A
Max Switching Power	480 Watts
Max Switching Voltage	16 VDC
Max Continuous Current	25 A
Motor Locked Rotor	25 A at 14 VDC

## CHARACTERISTICS

Operate Time	10 ms Max
Release Time	5 ms Max
Insulation Resistance	100 MΩ min at 500VDC,
Dielectric Strength	500 V 50 Hz between contacts 1,000 V 50 Hz between coil and contacts
Shock Resistance	98 m/s <sup>2</sup> 11 ms
Vibration Resistance	10 Hz - 500 Hz; Acceleration: 43.1 m/s <sup>2</sup>
Terminal Strength	5 N
Solderability	255°C ± 2°C 3s ± .5s
Operating Temperature	-40 to 85°C Standard (Class B)
Operating Temperature	-40 to 105°C Class F
Relative Humidity	85% (40°C)
Weight	4.1 g
Power Consumption	Nil: 640mW, H: 800 mW

## CONTACT DATA

Material	AgSnO <sub>2</sub>	
Service Life	Electrical	1 x 10 <sup>5</sup> Operations
	Mechanical	1 x 10 <sup>6</sup> Operations

## ORDERING INFORMATION

Example:	PC565	-1C	-12	H	F	-X
Model:	<b>PC565</b>					
Contact Form:	<b>1C</b> (SPDT)					
Coil Voltage:	<b>12</b>					
Coil Power:	<b>Nil: 640 mW; H: 800 mW</b>					
Insulation System:	<b>Nil: -40° C to +85° C; F: -40° C to +105° C</b>					
RoHS Compliant:	<b>-X</b>					

Box Quantity: 200; 40 Per Tube

\*White cover and suited for reflow soldering.

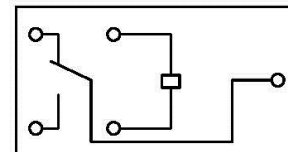
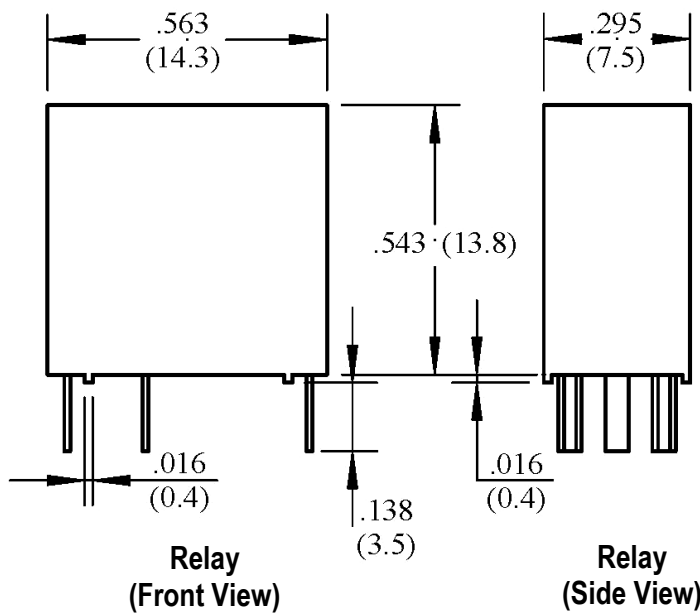
**COIL DATA**

Coil Option	Coil Voltage (VDC)		Resistance (Ohms ± 10%)	Must Operate Voltage Max (VDC)	Must Release Voltage Min. (VDC)	Coil Power (mW)
	Rated	Max				
H:	12	16	180	6.5	1.0	800
Nil:	12	16	225	7.2	1.0	640

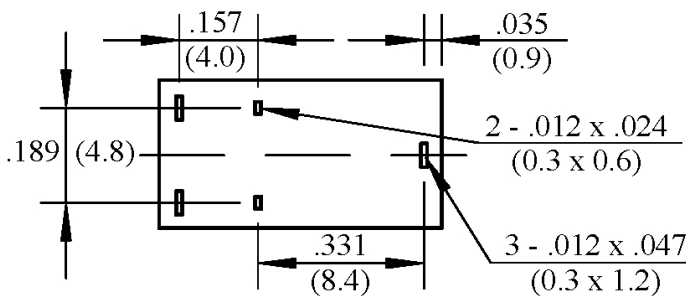
**NOTES:**

The use of any coil voltage less than the rated voltage will compromise the operation of the relays.  
 Must Operate Voltage and Release voltages are for test purposes only and are not to be used as design criteria.

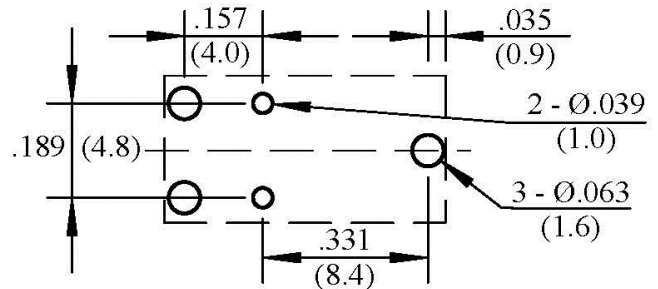
**DIMENSIONS inches/(mm)**



**Wire Diagram**



**Terminal Layout (Bottom View)**



**PC Board Layout (Top View)**