

# 25 Amp Ultraminiature Automotive PCB Relay

# PC565



## **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 M $\Omega$ min at 500VDC,			
Dialactria Strangth	500 V 50 Hz between contacts			
Dielectric Strength	1,000 V 50 Hz between coil and contacts			
Shock Resistance	98 m/s² 11 ms			
Vibration Resistance	10 Hz - 500 Hz; Acceleration: 43.1 m/s <sup>2</sup>			
Terminal Strength	5 N			
Solderability	260°C for 5 seconds			
Operating Temperature	-40°C to 85°C Standard (Class B)			
Operating Temperature	-40°C to 105°C Class F			
Relative Humidity	85% (40°C)			
Weight	4.1 g			
Power Consumption	Nil: 640mW, H: 800 mW			

# **ORDERING INFORMATION**

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Example:	PC565	-1C	-12		Н	F	-X	
Model:	PC565							
Contact Form:	1C (SPDT)							
Coil Voltage:	12							
Enclosure:	e: Nil: Sealed, S1: Flux Tight <sup>(1)</sup>							
Coil Power: Nil: 640 mW; H: 800 mW								
Insulation System:	: Nil: -40° C to +	85° C; <b>F</b> : -	40° C to	+105° C		-		
RoHS Compliant:	-X							

\*White cover and suited for reflow soldering.

(1) Flux Tight relays utilize high temperature plastic, white in color, specifically for Reflow Soldering. The UV hole is open. The relay is NOT Suitable for water wash cleaning.

Box Quantity: 200; 40 Per Tube

#### **PICKER**<sup>\*</sup> 20550 Commerce Blvd, Rogers, MN 55374 USA Sales: (763) 535-2339

Dimensions are listed for reference purposes only.

PC565 Rev P 11/2022

# 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 DATA

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

# **CROSS REFERENCES**

Omron G8N

Omron G8N-1-DC12SK Crosses to PC565-1C-12-X

Song Chuan 103

Song Chuan 103-1CH-C-12VDC Crosses to PC565-1C-12-X

www.PickerComponents.com e-mail: sales@pickercomponents.com Specifications and Availability subject to change without notice.

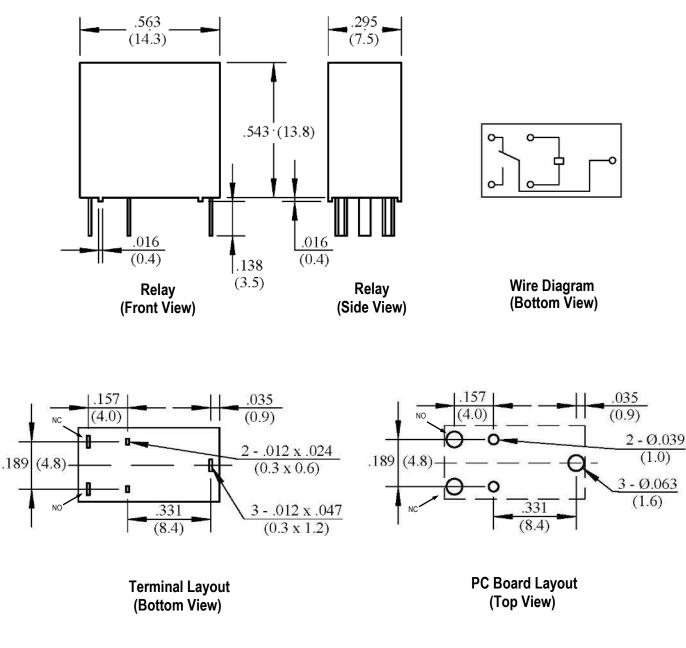
# **COIL DATA**

Coil Option	Coil Voltage (VDC)		Resistance (Ohms ± 10%)	Must Operate Voltage Max	Must Release Voltage Min.	Coil Power (mW)
	Rated	Max	(011113 ± 1078)	(VDC)	(VDC)	()
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)

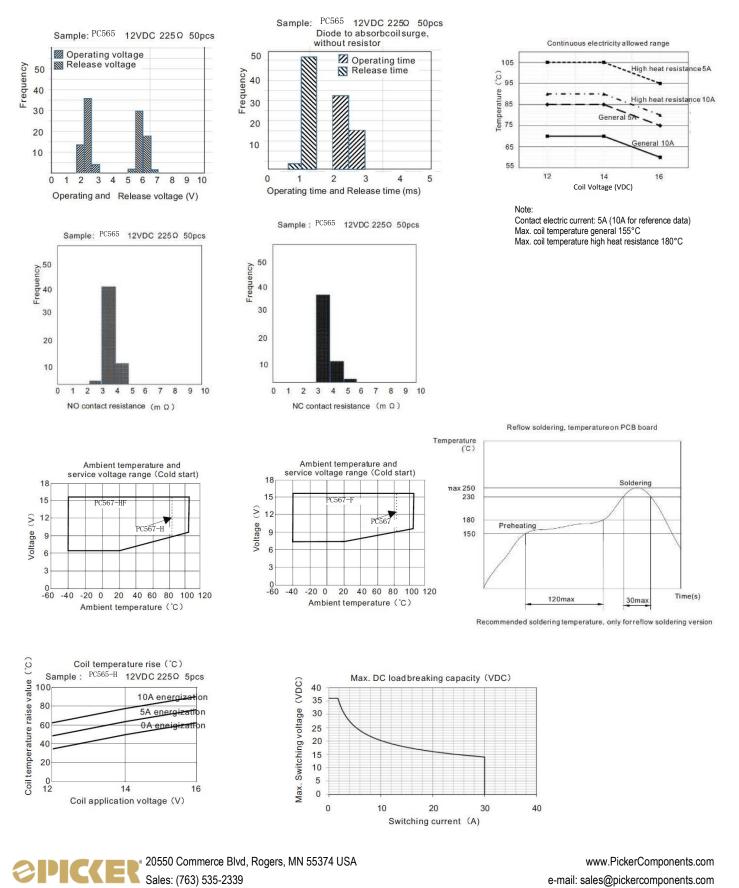


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