

## 30 Amp Ultraminiature Automotive PCB Twin Power Relay



### FEATURES

- Subminiature Twin Relay
- 2 X 1C (2 X SPDT) Contact Form
- Contact Switching Capacity up to 30 Amps
- Sealed, Immersion Cleanable
- 105°C Operating Temperature
- Coils can be used together or independently
- Uniquely Designed for Motor Reversing

### UL / CUL Ratings



Contact Form	2 X 1 Form C 2X SPDT
Max Switching Current	30 Amps
Max Switching Voltage	16 VDC
Max Continuous Current	20 Amps @ 16 VDC
Max Carry Current	30 Amps at 20°C for 15 min
Minimum Load	0.5 Amps @ 12 VDC

### CHARACTERISTICS

Operate Time	10 ms Max
Release Time	5 ms Max
Insulation Resistance	1000 MΩ min (at 500 VDC, 50% RH)
Dielectric Strength	1500 Vrms, 1 min between Coil and Contacts
Shock Resistance	10 g, 11 ms, functional; 100 g, destructive
Vibration Resistance	DA 1.5 mm, 10 - 55 Hz
Drop Resistance	1 meter height drop on concrete
Power Consumption	640 mW
Operating Temperature	-40° to 105°C
Storage Temperature	-40° to 155°C
Weight	5.9 grams

### CONTACT DATA

Material	AgSnInO (Silver Tin Indium Oxide)	
Initial Contact Resistance	100 mΩ max @ 0.1 A, 6 VDC	
Service Life	Mechanical	1 x 10 <sup>7</sup> Operations
	Electrical	1 x 10 <sup>5</sup> Operations

### ORDERING INFORMATION

Example:	PC636	-2C	-12	S	-X
Model:	<b>PC636</b>				
Contact Form:	<b>2C or 2U</b>				
Coil Voltage:	<b>12</b>				
Enclosure:	<b>C: Dust Cover, S: Sealed Case S1: Flux Tight<sup>(1)</sup></b>				
RoHS Compliant:	<b>-X</b>				

(1) Flux Tight relays are constructed such that Flux will not enter the relay in an automated soldering process, they are NOT Suitable for water wash cleaning.

Box Quantity: 2,000; Inner Box: 1,000

**COIL DATA**

Coil Voltage	Resistance Ohms $\pm$ 10%	Must Operate Voltage Max. (VDC)	Must Release Voltage Min. (VDC)	Continuous Voltage Max. (VDC)	Coil Power (mW)
12	225	6.8	1.2	14.4	640

Notes:

The use of any coil voltage less than the rated voltage will compromise the operation of the relays. Must Operate Voltage is listed for test purposes only and is not to be used as design criteria. Pickup and release voltages are for test purposes only and are not to be used as design criteria. Dimensions are in mm, Inches are listed for reference only.

