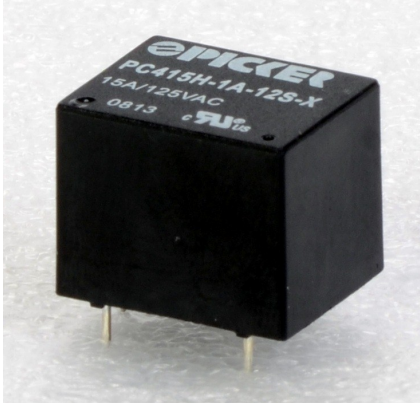


# 10 Amp Subminiature PCB Power Relay

**PC415**



## FEATURES

- 10 Amp Continuous Contact Capacity
- 1 Form A, 1 Form B and 1 Form C Contact Forms
- Most Popular Package and Footprint
- Class "B" Insulation Standard
- Class "F" Insulation Available
- Popular "Sugar Cube" Footprint
- Sealed, Immersion Cleanable
- Lead Free and RoHS Compliant



## cULus Ratings

Load Type	All Forms, All Contacts
Resistive	10 Amps @ 120 VAC & 28 VDC
	7 Amps @ 240 VAC
	5 Amps @ 277 VAC
	20 Amps @ 14 VDC
General Purpose	10 Amps @ 120 VAC & 28 VDC
	7 Amps @ 240 VAC
	5 Amps @ 277 VAC
	20 Amps @ 14 VDC
Motor	1/3 HP @ 125 VAC / 277 VAC

## Contact Data

Max Switching Power	420 W, 2500 VA	
Max. Switching Voltage	110 VDC, 380 VAC	
Max Switching Current	20 A	
Material	AgCdO (Silver Cadmium Oxide)	
Initial Contact Resistance	100 milliohms max @ 0.1 A, 6 VDC	
Service Life	Mechanical	1 X 10 <sup>7</sup> Operations
	Electrical	1 X 10 <sup>5</sup> Operations

## Characteristics

Operate Time	Less than 10 ms
Release Time	Less than 5 ms
Insulation Resistance	1,000 megohms min, at 500 VDC, 50% RH
Dielectric Strength	1500 Vrms, 1 min. between coil and contacts
	750 Vrms, 1 min. between open contacts
Shock Resistance	10 g, 11 ms, functional; 100 g, destructive

Vibration Resistance	DA 1.5 mm, 10 - 55 Hz
Operating Temperature	-55 to 85 °C
Storage Temperature	-55 to 130 °C
Weight	9.5 grams
Solderability	235 °C for 3 seconds

## Ordering Information

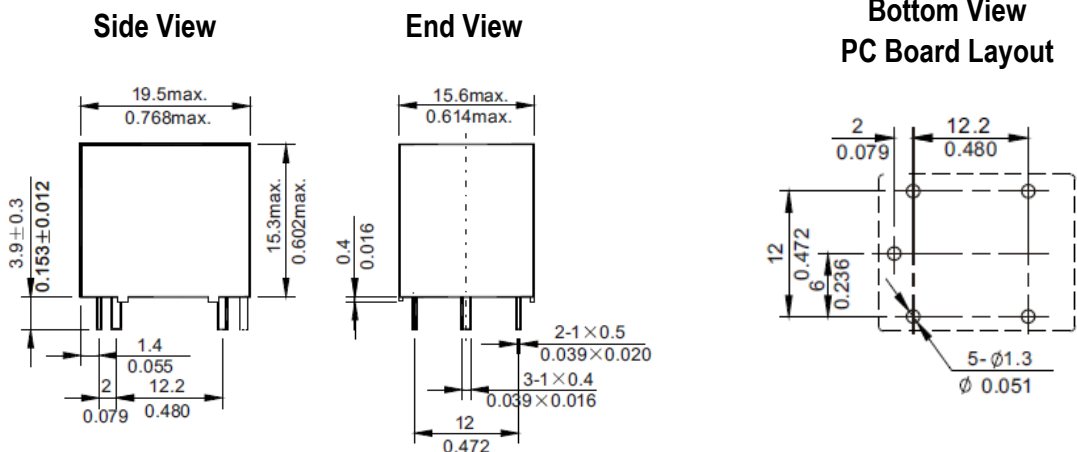
Example:	PC415	-1A	-12	S	F	-X
Model:	PC415					
Contact Form:	1A, 1B, 1C					
Coil Voltage:	3, 5, 6, 9, 12, 24, 48					
Coil Sensitivity:	Nil: 360 mW, B: 450 mW, L: 800 mW					
Enclosure:	S: Sealed; C: Dust Cover					
Insulation System:	Nil: Class B, F: Class F					
Contact Material:	Nil: AgCdO, T: AgSnO, G: AgCdO + Gold Plate					
RoHS Compliant:	-X					

Coil Data

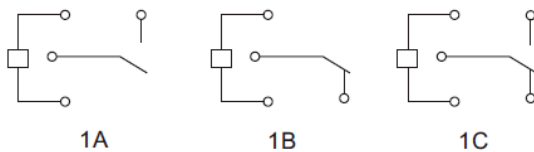
Coil Voltage	Coil Power			Must Operate Voltage Max. (VDC)	Must Release Voltage Min. (VDC)	Continuous Voltage Max. (VDC)
	Resistance ohms ± 10%					
	360 mW	450 mW	800 mW			
3	25	20	11	2.1	0.3	3.9
5	70	55.6	31	3.5	0.5	6.5
6	100	80	45	4.2	0.6	7.8
9	225	180	101	6.3	0.9	11.7
12	400	320	180	8.40	1.2	15.6
24	1600	1280	720	16.8	2.4	31.2
48	6400	5120	2880	33.60	4.8	62.4

Caution: 1. The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.  
 2. Pickup and release voltage are for test purposes only and are not to be used as design criteria.

Dimensions in Millimeters (inches)



Wiring Diagram



Notes: Contact Form C shown  
 On Contact Forms A & B Unused Pins are Omitted  
 Tolerances ± .010 unless otherwise noted

