

**Ultra Slim Inline Relay**

**PC457**



**FEATURES**

- Handles from signal level to 5 amps
- 1 Form A contact form
- Ultra Slim, 5 MM package
- SIL terminal pattern
- Terminals on 1/10 in grid pattern
- 2 Kv dielectric between coil and contacts
- Sealed, immersion cleanable
- Lead Free & RoHS Compliant

**RoHS** File # E86876

**UL/CSA RATINGS**

Load Type	All Forms All Contacts
General Use	3A or 5A at 30VDC / 250VAC
Resistive	3A or 5A at 30VDC / 250VAC
Minimum Load	0.1 mA @ 0.1 VDC

**CONTACT DATA**

<b>Material</b>	AgCdO (Silver Cadmium Oxide)
	AgCdO+Au (Silver Cad Oxide Gold Clad)
<b>Initial Contact Resistance</b>	100 milliohms max @ 0.1A, 6VDC
<b>Service Life</b>	<b>Mechanical</b> 2 X 10 <sup>7</sup> Operations
	<b>Electrical</b> 1 X 10 <sup>5</sup> Operations

**CHARACTERISTICS**

<b>Operate Time</b>	6 ms. Max.
<b>Release Time</b>	3 ms. Max.
<b>Insulation Resistance</b>	1000 megohms min, at 500VDC, 50%RH
<b>Dielectric Strength</b>	2000 Vrms, 1 min. between coil and contacts 1000 Vrms, 1 min. between open contacts
<b>Shock Resistance</b>	10 g, 11ms, functional; 100 g, destructive
<b>Vibration Resistance</b>	DA 2.5 mm, 10 - 55 Hz
<b>Power Consumption</b>	.12W
<b>Ambient Temperature Range</b>	-40 to 70 C operating for class B, -40 to 130 C storage
<b>Weight</b>	3 grams approx.

**ORDERING INFORMATION**

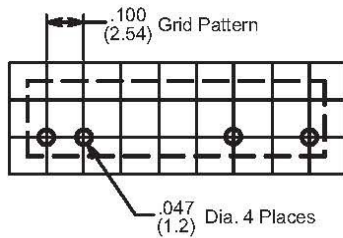
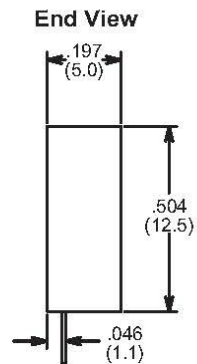
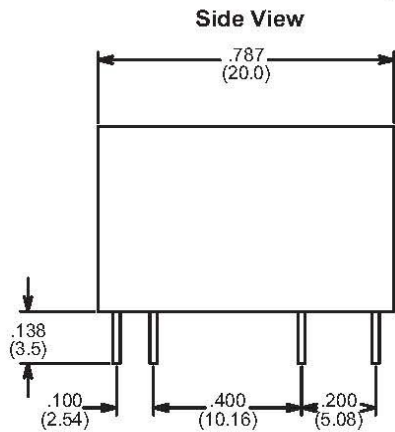
Example:	PC457	-1A	-12	S	-5	-X
Model:	<b>PC457</b>					
Contact Form:	<b>1A</b>					
Coil Voltage:	<b>5, 6, 9, 12, 18, 24</b>					
Enclosure:	<b>S: Sealed; C: Flux Free</b>					
Contact Rating:	<b>3: 3 AMP; 5: 5 AMP</b>					
RoHS Compliant:	<b>-X</b>					

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

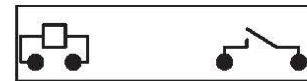
**COIL DATA**

Coil Voltage	Resistance ohms $\pm$ 10%	Must Operate Voltage Max. (VDC)	Must Release Voltage Min. (VDC)	Continuous Voltage Max. (VDC)
5	208	3.5	0.25	5.5
6	300	4.2	0.30	6.6
9	675	6.3	0.45	9.9
12	1200	8.4	0.60	13.2
18	2700	12.6	0.90	19.8
24	3200	16.8	1.20	26.4

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



**Hole Pattern**



**Wiring Diagram**