

# Automotive Subminiature PCB Power Relay

**PC517**



**Features**

- 15 Amp continuous current capacity
- Up to 60 amps switching capacity
- Six different contact forms
- Four different contact materials available
- Designed for high inrush applications
- UL Class F insulation standard
- Dust cover or sealed version available

**CONTACT RATINGS**

Form		1 Form A	1 Form B	1 Form C ( DPDT )		1 Form U	1 Form V	1 Form W (SPDT-DB-DM)	
		(SPST NO)	(SPST NO)	NO	NC	(SPST-NO-DM)	(SPST-NC-DM)	NO	NC
Max Switching Current	Make	60 Amps	12 Amps	60 Amps	12 Amps	2 x 40 Amps	2 x 8 Amps	2 x 30 Amps	2 x 5 Amps
	Motor	20 Amps	10 Amps	20 Amps	10 Amps	2 x 20 Amps	2 x 7 Amps	2 x 15 Amps	2 x 5 Amps
Max Continuous Current		15 Amps	10 Amps	15 Amps	10 Amps	2 x 10 Amps	2 x 7 Amps	2 x 7 Amps	2 x 5 Amps
Minimum Load		.05 Amps @ 5 VDC							
Max Switching Voltage		See curve page 2, current dependent							

**CONTACT DATA**

Material	AgNiO 15 (Silver Nickel Oxide 15%), AgSnOInO (Silver Tin Oxide Indium Oxide)	
Initial Contact Resistance	100 milliohms max @ 0.1A, 6VDC	
Service Life	Mechanical	1 X 10 <sup>7</sup> Operations
	Electrical	2 x 10 <sup>6</sup> Operations

**CHARACTERISTICS**

Operate Time	3 ms. Typical
Release Time	1.5 ms. Typical
Insulation Resistance	100 megohms min, at 500VDC , 50%RH
Dielectric Strength	500 Vrms, 1 min. between coil and contacts
Shock Resistance	10 g, 11ms, functional; 100 g, destructive
Vibration Resistance	DA 1.5mm, 20-200 Hz functional
Drop Resistance	1 Meter height drop on concrete in final enclosure
Power Consumption	1.1 W, 1.2W
Ambient Temperature Range	-40° to 85°C operating, -40° to 155°C storage
Weight	Open: 8 grams, Enclosed: 12 grams approx

**ORDERING INFORMATION**

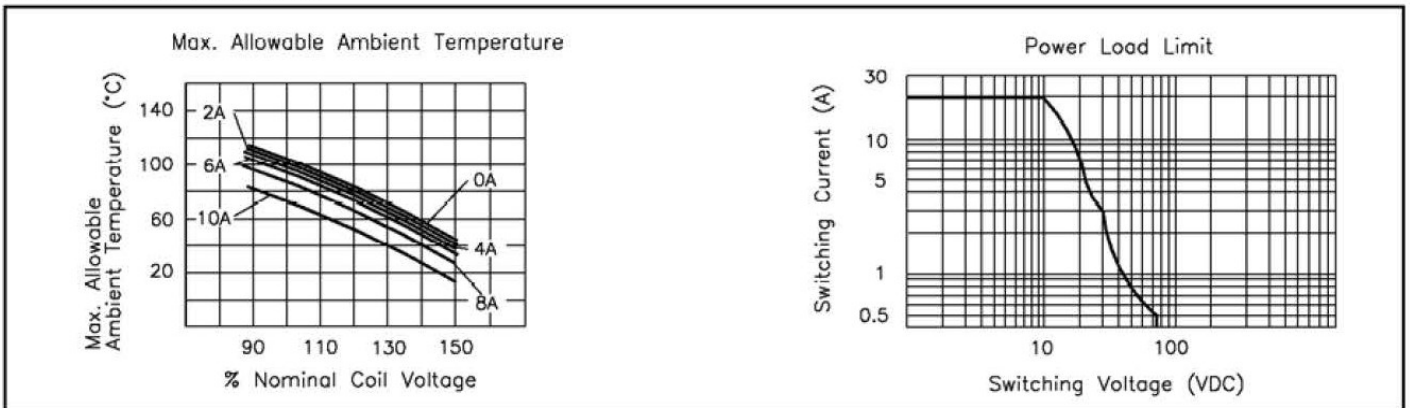
Example:	PC517	-1C	-6	S	C	H	-X
Model:	<b>PC517</b>						
Contact Form:	<b>1A ( SPST-NO ), 1B ( SPST-NC ), 1C ( SPDT ), 1U, 1V or 1W</b>						
Coil Voltage:	<b>6, 12, 24</b>						
Enclosure:	<b>Nil: Open Frame; S: Sealed; C: Dust Cover</b>						
Contact material:	<b>Nil: AgSnO; C: AgCdO; T: AgSnOInO</b>						
Coil Power:	<b>Nil: 1.0 W; H: 1.2 W</b>						
Insulation Material:	<b>Nil: Class F</b>						
RoHS Compliant:	<b>-X</b>						

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

**COIL DATA**

Coil Voltage (VDC)		Coil Resistance $\Omega \pm 10\%$	Must Operate Voltage Max. (VDC)		Must Release Voltage Min. (VDC)		Coil Power
Rated	Max.		A, B, C, U, V	W	B, V	A, C, U, W	
6	8	28	3.75	4.5	0.35	0.7	1.0
12	16	130	7.50	9.0	0.70	1.4	
24	31	520	15.0	18.0	1.40	2.8	
12	15.6	120	7.50	9.0	.0.6	1.2	1.2

**REFERENCE CURVES**



**Dimensions in Inches (millimeters) drawings are 2 X scale**

