

## Wirewound Resistors, Commercial Power, Printed Circuit Board, Tab Type Terminals



### FEATURES

- Variety of core lengths
- Terminals designed for direct mounting into a circuit board to be securely clamped
- Available potted in a ceramic case to increase power dissipation, contact factory by using the e-mail address at the bottom of this page

### STANDARD ELECTRICAL SPECIFICATIONS

MODEL*	POWER RATING $P_{25^{\circ}\text{C}}$ W	RESISTANCE RANGE $\Omega$ $\pm 10\%$ Standard, $\pm 5\%$ Available	WEIGHT (Typical) g
PCT-4050	2.0	0.10 - 390	0.57
PCT-4065	2.6	0.14 - 560	0.59
PCT-4085	3.4	0.20 - 785	0.62
PCT-4105	4.2	0.25 - 1.01k	0.65
PCT-4145	5.8	0.36 - 1.46k	0.71
PCT-4185	7.4	0.47 - 1.91k	0.77
PCT-4215	8.6	0.56 - 2.25k	0.81

\*PCT-4000 model numbers are calculated from the power rating of 4 watts per inch. The last three digits of the model number represent the mounting center spacing of the resistors in inches (decimal is between the first and second digit, mounting center spacing is available between 0.50 [12.70mm] and 2.15 [54.61mm]). **Example: PCT-4150 = 1.50 inches x 4 watts per inch = 6 watts.**

### TECHNICAL SPECIFICATIONS

PARAMETER	UNIT	PCT-4000 RESISTOR CHARACTERISTICS
Power Rating	W	4 per inch
Temperature Coefficient	ppm/ $^{\circ}\text{C}$	$\pm 600$ below 1.0 $\Omega$ , $\pm 300$ 1.0 $\Omega$ and above
Short Time Overload	-	5 x rated power for 5 seconds
Maximum Working Voltage	V	$(P \times R)^{1/2}$
Operating Temperature Range	$^{\circ}\text{C}$	- 65/+ 375
Terminal Strength	lb	10 minimum

### ORDERING INFORMATION

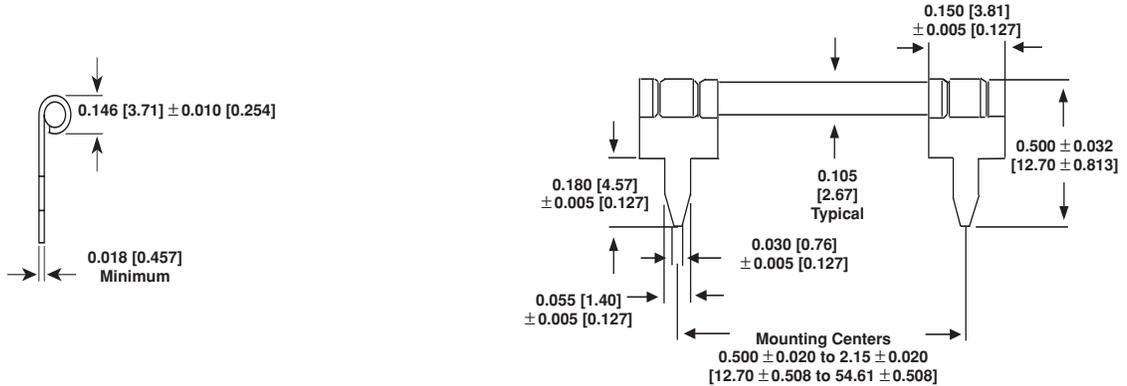
PCT-4150  
MODEL

300 $\Omega$   
RESISTANCE  
 $\Omega$

10%  
TOLERANCE  
 $\pm \%$

Example: A 1.50 inch mounting center spacing (at 4 watts per inch), 300 ohm,  $\pm 10\%$  unit is designated as shown. Total wattage of unit is 6 watts (4 watts per inch x 1.50 inch).

**DIMENSIONS** in inches [millimeters]

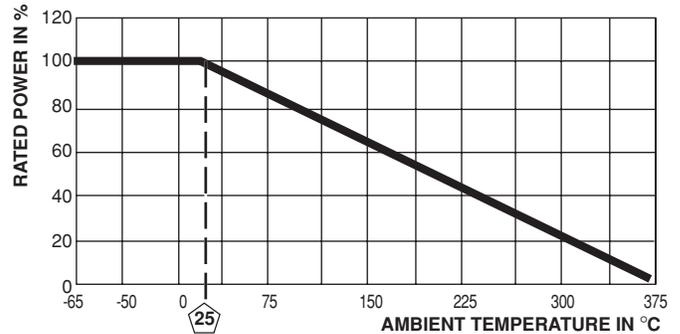
**PCT-4000**

**MATERIAL SPECIFICATIONS**

**Element:** Nickel-chrome alloy or copper-nickel alloy,  
 depending on resistance value

**Core:** Woven fiberglass

**Terminals:** Electro tin plated steel

**Part Marking:** None



PERFORMANCE		
TEST	CONDITIONS OF TEST	TEST LIMITS (EIA RS-344)
Thermal Shock	-55°C to + 275°C, 5 cycles, 30 minute dwell time	± (5.0% + 0.05Ω)ΔR
Short Time Overload	5 x rated power for 5 seconds	± (4.0% + 0.05Ω)ΔR
Low Temperature Operation	- 65°C, full rated working voltage for 45 minutes	± (3.0% + 0.05Ω)ΔR
Humidity	75°C, 90% - 100% RH, 240 hours	± (5.0% + 0.05Ω)ΔR
Load Life	1000 hours at rated power, + 25°C, 1.5 hours "ON", 0.5 hours "OFF"	± (10.0% + 0.05Ω)ΔR
Resistance to Solder Heat	Terminal immersed 3.5 seconds in molten solder at 1/8" to 3/16" from body	± (4.0% + 0.05Ω)ΔR