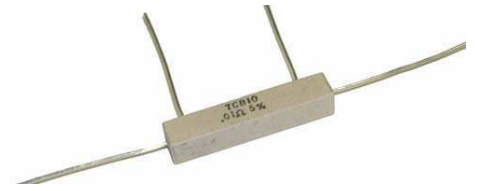


- Features:
- Four terminal construction
  - Low inductance
  - Low temperature coefficient
  - RoHS compliant / lead-free
  - Fireproof construction
  - All welded termination
  - Low resistance value ceramic encased resistor
  - See CB data sheet for performance and environmental specifications

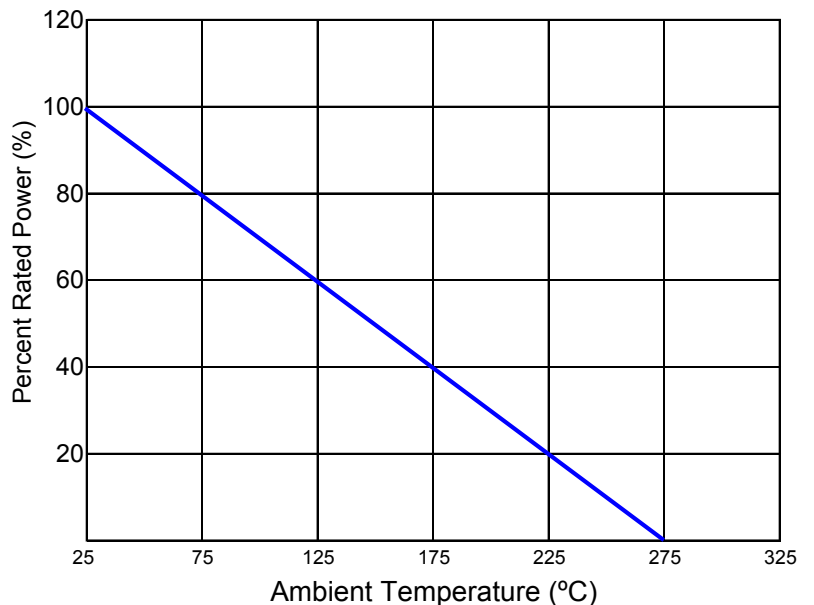


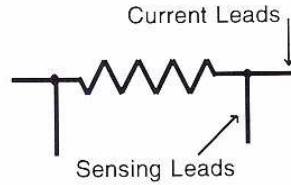
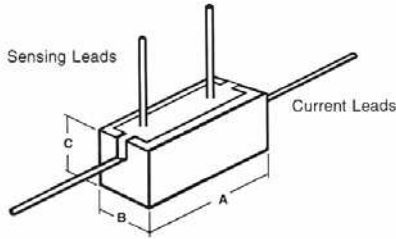
Electrical Specifications					
Type / Code	Power Rating (Watts) @ 70°C	Resistance Temperature Coefficient	Ohmic Range (Ω) and Tolerance		
			0.25%, 0.5%	1%	5%
TCB3	3W	±40 ppm/°C	0.02 - 0.10	0.005 - 0.10	0.005 - 0.10
TCB5	5W	±40 ppm/°C	0.02 - 0.10	0.005 - 0.10	0.005 - 0.10
TCB7	7W	±40 ppm/°C	0.02 - 0.15	0.010 - 0.15	0.010 - 0.15
TCB10	10W	±40 ppm/°C	0.02 - 0.20	0.010 - 0.20	0.010 - 0.20
TCB15	15W	±40 ppm/°C	0.02 - 0.10	0.010 - 0.20	0.010 - 0.20

Performance Characteristics	
Test	Test Results
Moisture Resistance	± 5%
Thermal Shock	± 2%
Load Life @ 70°C - 1,000 hrs.	± 5%
Resistance to Soldering Heat	± 2%
Short Time Overload - 5xPn for 5sec	± 2%
Dielectric Withstanding Voltage	± 2%

Operating Temperature Range: -55°C to +275°C

Power Derating Curve:





Lead Diameter .036 Length 1" minimum

Mechanical Specifications					
Type / Code	A Body Length (max)	B Body Width	C Body Height (Bulk)	Sensing Lead Spacing	Unit
TCB3	0.875 ± 0.031 22.2 ± 0.8	0.312 ± 0.031 7.9 ± 0.8	0.312 ± 0.031 7.9 ± 0.8	0.563 ± 0.062 14.3 ± 1.6	inches mm
TCB5	0.875 ± 0.031 22.2 ± 0.8	0.375 ± 0.031 9.5 ± 0.8	0.375 ± 0.031 9.5 ± 0.8	0.563 ± 0.062 14.3 ± 1.6	inches mm
TCB7	1.4 ± 0.031 35.6 ± 0.8	0.375 ± 0.031 9.5 ± 0.8	0.375 ± 0.031 9.5 ± 0.8	1 ± 0.062 25.4 ± 1.6	inches mm
TCB10	1.875 ± 0.031 47.6 ± 0.8	0.375 ± 0.031 9.5 ± 0.8	0.375 ± 0.031 9.5 ± 0.8	1.375 ± 0.062 34.9 ± 1.6	inches mm
TCB15	1.875 ± 0.031 47.6 ± 0.8	0.5 ± 0.031 12.7 ± 0.8	0.5 ± 0.031 12.7 ± 0.8	1.375 ± 0.062 34.9 ± 1.6	inches mm

**How to Order**

1 2 3 4 5 6 7 8 9 10

**T C B 3 J B R 1 0 0**

Product Series		Size	Power Rating	Tolerance		Packaging			Resistance Value
TCB	Ceramic Housed - 4 leads	3	3W	Code	Tol	B	Bulk	3 and 5	200
		5	5W	C	0.25%			7, 10, 15	150
		7	7W	D	0.5%				
		10	10W	F	1%				
		15	15W	J	5%				

Four characters with the multiplier used as the decimal holder. "L" used as multiplier of 10<sup>-3</sup> for any value under 0.1 ohm  
 0.005 ohm = 5L00  
 0.01 ohm = 10L0  
 0.1 ohm = R100

Legacy Part Number (before January 3, 2011):

<b>SEI Type</b>		<b>Code</b>		<b>Nominal Resistance</b>		<b>Tolerance</b>		<b>Packaging</b>			
<b>TCB</b>		<b>3</b>		<b>0.1</b>		<b>5%</b>		<b>B</b>			
<b>Type</b>	<b>Description</b>	<b>Code</b>	<b>Wattage</b>			<b>Tolerance</b>		<b>Types</b>	<b>Qty</b>	<b>Description</b>	<b>Code</b>
TCB	4 - Leads	3	3W			0.25%		3 and 5	200	Bulk	B
		5	5W			0.50%		7, 10, 15	150		
		7	7W			1%					
		10	10W			5%					
		15	15W								