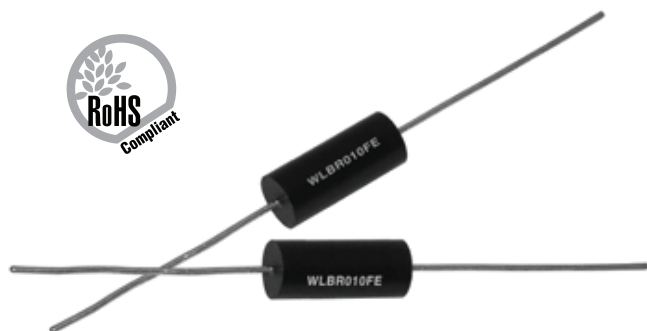


WL Series

Miniature Wirewound
Current Sense



FEATURES

- Ultra-low ohmic value series for Current Sensing applications
- Very low inductance (<1nH at 1MHz Test)
- Miniaturized dimensions, Better power to dimension ratios
- Use of the highest quality standard (96% Alumina) ceramic core
- Manufacturing process—Wire winding/Spot Welding—by Computer Numerical Control (CNC) machine tools to ensure consistency of product quality.
- Encapsulated by epoxy molding compound
- Advanced IC encapsulation mold/die technologies

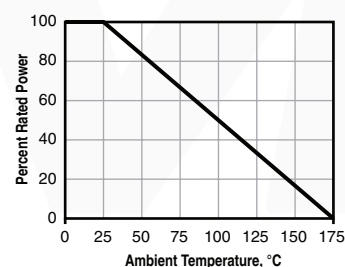
SERIES SPECIFICATIONS

Type	Power Rating (watts)	Resistance Range (Ω)
WLA	0.5	0.005-0.100
WLB	1	0.005-0.100
WLC	2	0.010-0.100

CHARACTERISTICS

Ceramic Core	CeramTec Rubalit® 96% alumina
End Caps	Stainless steel, precision formed
Leads	Copper wire, 100% Sn (Lead Free) coated
Resistance Wire	CN49W alloy TC ± 20 ppm/°C
Encapsulation	SUMICON 1100/1200 Epoxy molding compound for IC encapsulation
Standard Tolerance	F (1.0%), J (5.0%)
Temperature Coefficient	± 300 ppm/°C for $\leq 0.03\Omega$; ± 100 ppm/°C for $\geq 0.033\Omega$
Maximum Working Voltage	$\sqrt{P \times R}$

Derating



PERFORMANCE DATA

Test	Conditions Of Test	Performance
Thermal Shock	Rated power applied until thermal stability, -55°C +0°C, -5°C, 15min.	$\pm 2.0\%$
Short-time Overload	5 times rated wattage for 5 seconds	$\pm 2.0\%$
Solderability	Method 208 of MIL-STD-202	$\pm 2.0\%$
Terminal Strength	Pull test: 10 pounds, 5 to 10 seconds, Twist test: 1080°, 5 second/rotation	$\pm 1.0\%$
Dielectric Withstanding Voltage	500 Volts rms for 1W, 1 minute	$\pm 1.0\%$
High Temperature Exposure	Exposed to an ambient temperature of 275 ± 5 /0°C for 250 ± 8 hours,	$\pm 5.0\%$
Moisture Resistance	MIL-STD-202 Method 106, 7b not applicable	$\pm 2.0\%$
Low Temperature Storage	Cold chamber at a temperature of -65 ± 2 °C for 24 ± 4 hours	$\pm 2.0\%$
Vibration, High Frequency	Frequency varied 10 to 2000Hz, 200G peak, 2 directions 6 hours each	$\pm 1.0\%$
Load Life	1000/2000 hours at rated power, +25°C, 1.5 hours "On", 0.5 hours "Off"	$\pm 5.0\%$

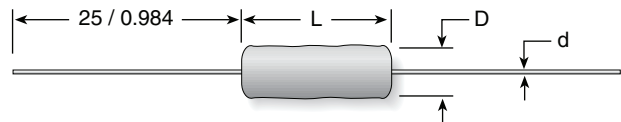
(continued)

WL Series

Miniature Wirewound
Current Sense

DIMENSIONS

(mm/in)



Type	Power Rating (watts)	L	D	d
WLA	0.5	5.08 / 0.200	2.54 / 0.100	0.60 / 0.024
WLB	1	7.00 / 0.276	3.30 / 0.130	0.60 / 0.024
WLC	2	11.4 / 0.450	4.57 / 0.180	0.80 / 0.031

ORDERING INFORMATION

RoHS compliant
W L A R 0 1 0 F E T
Series | Power | Ohms | Tolerance | Package
A = 0.5
B = 1
C = 2
F = 1%
J = 5%
T = Tape

Standard Part Numbers for WL Series

Wattage:	0.5	1.0	2.0
Series:	WLA	WLB	WLC
Ohms			
0.005	WLAR005FET	WLBR005FET	WLCR010FET
0.01	WLAR010FET	WLBR010FET	WLCR015FET
0.015	WLAR015FET	WLBR015FET	WLCR020FET
0.02	WLAR020FET	WLBR020FET	WLCR025FET
0.025	WLAR025FET	WLBR025FET	WLCR030FET
0.03	WLAR030FET	WLBR030FET	WLCR050FET
0.05	WLAR050FET	WLBR050FET	WLCR100FET
0.10	WLAR100FET	WLBR100FET	