# **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

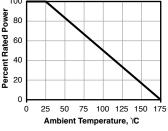
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Туре	Power Rating (watts)	Resistance Range ( $\Omega$ )
WLA	0.5	0.005-0.100
WLB	1	0.005-0.100
WLC	2	0.010-0.100

## CHARACTERISTICS

Ceramic Core	ic Core CeramTec Rubalit® 96% alumina		
End Caps	End Caps Stainless steel, precision formed		
Leads	Leads Copper wire, 100% Sn (Lead Free) coated		
Resistance Wire	CN49W alloy TC ±20ppm/°C		
Encapsulation	SUMICON 1100/1200 Epoxy molding compound for IC encapsulation		
Standard Tolerance	F (1.0%), J (5.0%)		
Temperature Coefficient	±300ppm/°C for ≤0.03Ω; ±100ppm/°C for ≥0.033Ω		
Maximum Working Voltage	√PxR		
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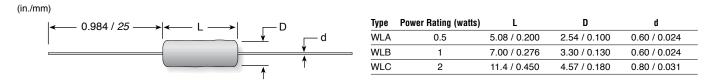
### PERFORMANCE DATA

Test	Conditions Of Test	Performance
Thermal Shock	Rated power applied until thermal stability, -55°C +0°C,-5°C,15min.	±2.0%
Short-time Overload	5 times rated wattage for 5 seconds	±2.0%
Solderability	Method 208 of MIL-STD-202	±2.0%
Terminal Strength	Pull test:10 pounds, 5 to10 seconds, Twist test: 1080°, 5 second/rotation	±1.0%
Dielectric Withstanding Voltage	500 Volts rms for 1W. 1 minute	±1.0%
High Temperature Exposure	Exposed to an ambient temperature of 275 +5/-0°C for 250 $\pm 8$ hours,	±5.0%
Moisture Resistance	MIL-STD-202 Method 106, 7b not applicable	±2.0%
Low Temperature Storage	Cold chamber at a temperature of -65 ±2°C for 24 ±4 hours	±2.0%
Vibration, High Frequency	Frequency varied 10 to 2000Hz, 200G peak, 2 directions 6 hours each	±1.0%
Load Life	1000/2000 hours at rated power, +25°C, 1.5 hours "On", 0.5 hours "Off"	±5.0%

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#### DIMENSIONS



### ORDERING INFORMATION

# $\underset{\substack{A=0.5\\B=1\\C=2}}{\textbf{Forms}} \underset{\substack{B=1\\C=2}}{\textbf{RoWer}} A \underset{\substack{A=0.5\\B=1\\C=2}}{\textbf{RoWer}} A \underset{\substack{B=1\\C=2}}{\textbf{RoHS compliant}} A \underset{\substack{B=1\\C=2}}{\textbf{Power}} F \underset{\substack{B=1\\C=2}}{\textbf{RoHS compliant}} A \underset{\substack{R$

#### **Standard Part Numbers for WL Series**

Wattage: Series:	0.5 WLA	1.0 WLB	2.0 WLC
Ohms			
0.01 W 0.015 W	LAR005FET LAR010FET LAR015FET LAR020FET	WLBR005FET WLBR010FET WLBR015FET WLBR020FET	WLCR010FET WLCR015FET WLCR020FET
0.03 W 0.05 W	LAR025FET LAR030FET LAR050FET LAR100FET	WLBR025FET WLBR030FET WLBR050FET WLBR100FET	WLCR025FET WLCR030FET WLCR050FET WLCR100FET

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HPCR0402F17K4K9
HPCR0402F180KK9
HPCR0402F180RK9
HPCR0402F1K10K9
HPCR0402F220KK9
HPCR0402F220RK9

HPCR0402F24K0K9
HPCR0402F27K0K9
HPCR0402F2K00K9
HPCR0402F33K0K9
HPCR0402F430KK9
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HPCR0402F430RK9
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HPCR0402F620KK9
HPCR0402F620RK9
HPCR0402F6820K9

HPCR0402F6K20K9
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HPCR0402F750K9
HPCR0402F7