

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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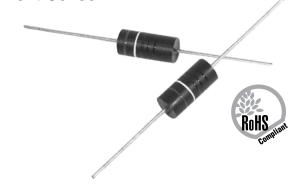






WL Series

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

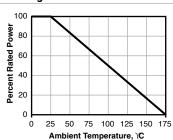
SERIES SPECIFICATIONS

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 ±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

Derating



PERFORMANCE DATA

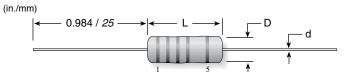
Test	Conditions Of Test	Performance
Thermal Shock	Rated power applied until thermal stability, -55°C +0°C,-5°C,15min.	±2.0%
Short-time Overload	5 times rated wattage for 5 seconds	±2.0%
Solderability	Method 208 of MIL-STD-202	±2.0%
Terminal Strength	Pull test:10 pounds, 5 to10 seconds, Twist test: 1080°, 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 ±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%

(continued)

WL Series

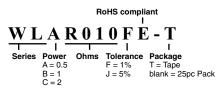
Miniature Wirewound Current Sense

DIMENSIONS



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



Wattag Series:		1.0 WLB	2.0 WLC				
Ohms							
0.005 0.01 0.015 0.02	WLAR005FE WLAR010FE WLAR015FE WLAR020FE	WLBR005FE WLBR010FE WLBR015FE WLBR020FE	WLCR010FE WLCR015FE WLCR020FE				
0.025 0.03 0.05 0.10	WLAR025FE WLAR030FE WLAR050FE WLAR100FE	WLBR025FE WLBR030FE WLBR050FE WLBR100FE	WLCR025FE WLCR030FE WLCR050FE WLCR100FF				

Standard Part Numbers for WL Series

Key to five-band code						1234 5		
Band	1	2	3		4		5	
Color		Dig	it		Multiplier		Toleran	ce
Black	0	0	0	х	1Ω			
Brown	1	1	1	х	10Ω	±	1%	(F)
Red	2	2	2	х	100Ω	±	2%	(G)
Orange	3	3	3	х	1ΚΩ			
Yellow	4	4	4	х	10ΚΩ			
Green	5	5	5	х	100ΚΩ	±	0.5%	(D)
Blue	6	6	6	х	1ΜΩ	±	0.25%	(C)
Violet	7	7	7	х	10ΜΩ	±	0.10%	(B)
Grey	8	8	8			±	0.05%	
White	9	9	9	х	0.001Ω			
Gold				х	0.1Ω	±	5%	(J)
Silver				х	0.01Ω	±	10%	(K)

