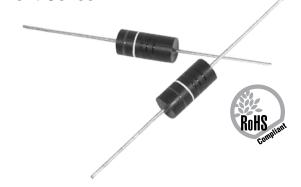
WL Series

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

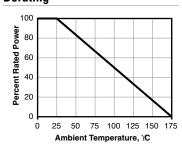
SERIES SPECIFICATIONS

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

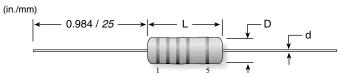
Test	Conditions Of Test	Performance
Thermal Shock	Rated power applied until thermal stability, -55°C +0°C,-5°C,15min.	±2.0%
Short-time Overload	5 times rated wattage for 5 seconds	±2.0%
Solderability	Method 208 of MIL-STD-202	±2.0%
Terminal Strength	Pull test:10 pounds, 5 to10 seconds, Twist test: 1080°,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

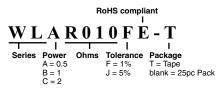
Miniature Wirewound Current Sense

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



	uuru r urt ma		
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	Tolerance	
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)	



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Current Sense Resistors - Through Hole category:

Click to view products by Ohmite manufacturer:

Other Similar products are found below:

```
SR10-0.015-1% SR20-0.008-1% SBL4R005J SR10-0.25-1% T125-12-3 T120-10-4 HPCR0402F12K0K9 HPCR0402F130RK9

HPCR0402F13K0K9 HPCR0402F17K4K9 HPCR0402F180KK9 HPCR0402F180RK9 HPCR0402F1K10K9 HPCR0402F220KK9

HPCR0402F220RK9 HPCR0402F24K0K9 HPCR0402F27K0K9 HPCR0402F2K00K9 HPCR0402F33K0K9 HPCR0402F430KK9

HPCR0402F4K30K9 HPCR0402F4K70K9 HPCR0402F680KK9 HPCR0402F680RK9 HPCR0402F390KK9 HPCR0402F39K0K9

HPCR0402F8K20K9 HPCR0402F560RK9 HPCR0402F2K70K9 HPCR0402F360KK9 HPCR0402F36K0K9 HPCR0402F3K00K9

HPCR0402F3K90K9 HPCR0402F430RK9 HPCR0402F43K0K9 HPCR0402F475KK9 HPCR0402F47K0K9 HPCR0402F51K0K9

HPCR0402F560KK9 HPCR0402F56K0K9 HPCR0402F5K10K9 HPCR0402F5K60K9 HPCR0402F620KK9 HPCR0402F620KK9 HPCR0402F620KK9 HPCR0402F620KK9 HPCR0402F620KK9 HPCR0402F750KK9 HPCR0402F750KK9 HPCR0402F7K50K9
```