

ATC 1008 WL SERIES WIRE WOUND CHIP INDUCTORS

Inductor Selection Guide

Inductance (nH)	Tolerance Code	Q (MHz) min.	SRF (MHz) min.	RDC (Ohms) max.	IDC (mA) max.	Color code		
						1st	2nd	3rd
10 @ 50 MHz	J, K	50 @ 500	4100	0.08	1000	Brown	Black	Black
12 @ 50 MHz	J, K	50 @ 500	3300	0.09	1000	Brown	Red	Black
15 @ 50 MHz	J, K	50 @ 500	2500	0.10	1000	Brown	Green	Black
18 @ 50 MHz	J, K	50 @ 350	2500	0.11	1000	Brown	Gray	Black
22 @ 50 MHz	J, K	55 @ 350	2400	0.12	1000	Red	Red	Black
27 @ 50 MHz	J, K	55 @ 350	1600	0.13	1000	Red	Violet	Black
33 @ 50 MHz	G, J, K	60 @ 350	1600	0.14	1000	Orange	Orange	Black
39 @ 50 MHz	G, J, K	60 @ 350	1500	0.15	1000	Orange	White	Black
47 @ 50 MHz	G, J, K	65 @ 350	1500	0.16	1000	Yellow	Violet	Black
56 @ 50 MHz	G, J, K	65 @ 350	1300	0.18	1000	Green	Blue	Black
68 @ 50 MHz	G, J, K	65 @ 350	1300	0.20	1000	Blue	Gray	Black
82 @ 50 MHz	G, J, K	60 @ 350	1000	0.22	1000	Gray	Red	Black
100 @ 25 MHz	G, J, K	60 @ 350	1000	0.56	650	Brown	Black	Brown
120 @ 25 MHz	G, J, K	60 @ 350	950	0.63	650	Brown	Red	Brown
150 @ 25 MHz	G, J, K	45 @ 100	850	0.70	580	Brown	Green	Brown
180 @ 25 MHz	G, J, K	45 @ 100	750	0.77	620	Brown	Gray	Brown
220 @ 25 MHz	G, J, K	45 @ 100	700	0.84	500	Red	Red	Brown
270 @ 25 MHz	G, J, K	45 @ 100	600	0.91	500	Red	Violet	Brown
330 @ 25 MHz	G, J, K	45 @ 100	570	1.05	450	Orange	Orange	Brown
390 @ 25 MHz	G, J, K	45 @ 100	500	1.12	470	Orange	White	Brown
470 @ 25 MHz	G, J, K	45 @ 100	450	1.19	470	Yellow	Violet	Brown
560 @ 25 MHz	G, J, K	45 @ 100	415	1.33	400	Green	Blue	Brown
620 @ 25 MHz	G, J, K	45 @ 100	375	1.40	300	Blue	Red	Brown
680 @ 25 MHz	G, J, K	45 @ 100	375	1.47	400	Blue	Gray	Brown
750 @ 25 MHz	G, J, K	45 @ 100	360	1.54	360	Violet	Green	Brown
820 @ 25 MHz	G, J, K	45 @ 100	350	1.61	400	Gray	Red	Brown
910 @ 25 MHz	G, J, K	35 @ 50	320	1.68	380	White	Brown	Brown
1000 @ 25 MHz	G, J, K	35 @ 50	290	1.75	370	Brown	Black	Brown
1200 @ 7.9 MHz	G, J, K	35 @ 50	250	2.00	310	Brown	Red	Red
1500 @ 7.9 MHz	G, J, K	28 @ 50	200	2.30	330	Brown	Green	Red
1800 @ 7.9 MHz	G, J, K	28 @ 50	160	2.60	300	Brown	Gray	Red
2200 @ 7.9 MHz	G, J, K	28 @ 50	160	2.80	280	Red	Red	Red
2700 @ 7.9 MHz	G, J, K	22 @ 25	140	3.20	290	Red	Violet	Red
3300 @ 7.9 MHz	G, J, K	22 @ 25	110	3.40	290	Orange	Orange	Red
3900 @ 7.9 MHz	G, J, K	20 @ 25	100	3.60	260	Orange	White	Red
4700 @ 7.9 MHz	G, J, K	20 @ 25	90	4.00	260	Yellow	Violet	Red
5600 @ 7.9 MHz	G, J, K	16 @ 7.96	20	4.00	240	Green	Blue	Red
6800 @ 7.9 MHz	G, J, K	16 @ 7.96	40	4.90	200	Blue	Gray	Red
8200 @ 7.9 MHz	G, J, K	18 @ 7.96	25	6.00	170	Gray	Red	Red
10000 @ 7.9 MHz	G, J, K	18 @ 7.96	20	9.00	150	Brown	Black	Orange
12000 @ 7.9 MHz	G, J, K	18 @ 7.96	18	10.5	130	Brown	Red	Orange
15000 @ 7.9 MHz	G, J, K	18 @ 7.96	15	11.5	120	Brown	Green	Orange

ATC Part Number Code

1008 **WL** **100** **K** **T**
 EIA Case Size: 0402, 0603, 0805, 1008, 1206
 Wire Wound Inductor
 Inductance value in nH. 1st and 2nd digits are significant digits. 3rd digit is multiplier. R is decimal point.
 Packaging: T - Tape & Reel
 Tolerance: See table below.

Inductance Tolerances			
Code	G	J	K
Tol.	± 2%	± 5%	± 10%

Mechanical Configurations

max.	max.	max.	ref.						
0.16 (2.92)	0.11 (2.79)	0.08 (2.10)	0.02 (0.51)	0.08 (2.03)	0.02 (0.51)	0.06 (1.52)	0.10 (2.54)	0.04 (1.02)	0.05 (1.27)

Terminations for all WL Series Inductor Case Sizes are Lead-Free, RoHS Compliant, Tin Plated over Nickel Barrier.

The above part number refers to an ATC 1008 WL wire wound chip inductor, 10 nH, K (±10%) tolerance, in tape and reel packaging. Tighter tolerances are available. Consult factory.

Inches (mm)

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