

# ATC 0805 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
2.8 @ 250 (MHz)	J, K	80 @ 1500	7900	0.060	800	Gray
3.0 @ 250 (MHz)	J, K	65 @ 1500	7900	0.060	800	White
3.3 @ 250 (MHz)	J, K	50 @ 1500	7900	0.080	600	Black
5.6 @ 250 (MHz)	J, K	65 @ 1500	5500	0.080	600	Orange
6.8 @ 250 (MHz)	J, K	50 @ 1000	5500	0.110	600	Brown
7.5 @ 250 (MHz)	J, K	50 @ 1000	4500	0.140	600	Green
8.2 @ 250 (MHz)	J, K	50 @ 1000	4700	0.120	600	Red
10 @ 250 (MHz)	G, J, K	60 @ 500	4200	0.100	600	Blue
12 @ 250 (MHz)	G, J, K	50 @ 500	4000	0.150	600	Orange
15 @ 250 (MHz)	G, J, K	50 @ 500	3400	0.170	600	Yellow
18 @ 250 (MHz)	G, J, K	50 @ 500	3300	0.200	600	Green
22 @ 250 (MHz)	G, J, K	55 @ 500	2600	0.220	500	Blue
24 @ 250 (MHz)	G, J, K	50 @ 500	2000	0.220	500	Gray
27 @ 250 (MHz)	G, J, K	55 @ 500	2500	0.250	500	Violet
33 @ 250 (MHz)	G, J, K	60 @ 500	2050	0.270	500	Gray
36 @ 250 (MHz)	G, J, K	55 @ 500	1700	0.270	500	Orange
39 @ 250 (MHz)	G, J, K	60 @ 500	2000	0.290	500	White
43 @ 200 (MHz)	G, J, K	60 @ 500	1650	0.340	500	Yellow
47 @ 200 (MHz)	G, J, K	60 @ 500	1650	0.310	500	Black
56 @ 200 (MHz)	G, J, K	60 @ 500	1550	0.340	500	Brown
68 @ 200 (MHz)	G, J, K	60 @ 500	1450	0.380	500	Red
82 @ 150 (MHz)	G, J, K	65 @ 500	1300	0.420	400	Orange
91 @ 150 (MHz)	G, J, K	65 @ 500	1200	0.480	400	Black
100 @ 150 (MHz)	G, J, K	65 @ 500	1200	0.460	400	Yellow
110 @ 150 (MHz)	G, J, K	50 @ 250	1000	0.480	400	Brown
120 @ 150 (MHz)	G, J, K	50 @ 250	1100	0.510	400	Green
150 @ 100 (MHz)	G, J, K	50 @ 250	920	0.560	400	Blue
180 @ 100 (MHz)	G, J, K	50 @ 250	870	0.640	400	Violet
220 @ 100 (MHz)	G, J, K	50 @ 250	850	0.700	400	Gray
240 @ 100 (MHz)	G, J, K	44 @ 250	690	1.000	350	Red
270 @ 100 (MHz)	G, J, K	48 @ 250	650	1.300	350	White
330 @ 100 (MHz)	G, J, K	48 @ 250	600	1.650	310	Black
390 @ 100 (MHz)	G, J, K	48 @ 250	560	1.800	290	Brown
470 @ 50 (MHz)	G, J, K	33 @ 100	375	2.000	250	Violet
560 @ 25 (MHz)	G, J, K	23 @ 50	340	2.100	230	Orange
620 @ 25 (MHz)	G, J, K	23 @ 50	220	2.200	210	Yellow
680 @ 25 (MHz)	G, J, K	23 @ 50	188	2.300	190	Green
750 @ 25 (MHz)	G, J, K	23 @ 50	200	2.300	180	Blue
820 @ 25 (MHz)	G, J, K	18 @ 50	215	2.500	180	Blue
1000 @ 25 (MHz)	G, J, K	20 @ 50	100	2.500	170	Gray
1200 @ 25 (MHz)	G, J, K	18 @ 25	100	2.500	170	White
1500 @ 25 (MHz)	G, J, K	16 @ 25	100	2.500	170	Black
1800 @ 25 (MHz)	G, J, K	16 @ 7.9	80	2.500	170	Brown
2200 @ 25 (MHz)	G, J, K	16 @ 7.9	60	2.700	160	Red
2700 @ 25 (MHz)	G, J, K	16 @ 7.9	50	2.950	150	Orange
3300 @ 7.9 (MHz)	G, J, K	15 @ 7.9	40	4.400	90	Blue
4700 @ 7.9 (MHz)	G, J, K	15 @ 7.9	40	6.400	90	Green

## ATC Part Number Code

**0805 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.

Package — T - Tape & Reel

Tolerance. See table below.

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

## Mechanical Configurations

A max.	B max.	C max.	D ref.	E	F	G	H	I	J
0.09 (2.29)	.068 (1.73)	0.06 (1.52)	0.02 (0.51)	0.05 (1.27)	0.02 (0.51)	0.04 (1.02)	0.07 (1.78)	0.04 (1.02)	0.03 (0.76)

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 0805 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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