Inductor Selection Guide

Inductance (nH)	Tolerance Code	Q (MHz) min.	SRF (MHz) min.	RDC (Ohms) max.	IDC (mA) max.	Color code
10 @ 50 MHz	G, J, K	50 @ 500	4100	0.08	1000	Brown
12 @ 50 MHz	G, J, K	50 @ 500	3300	0.09	1000	Red
15 @ 50 MHz	G, J, K	50 @ 500	2500	0.11	1000	Orange
18 @ 50 MHz	G, J, K	50 @ 350	2400	0.12	1000	Yellow
22 @ 50 MHz	G, J, K	55 @ 350	2400	0.12	1000	Green
27 @ 50 MHz	G, J, K	55 @ 350	1600	0.13	1000	Violet
33 @ 50 MHz	G, J, K	60 @ 350	1600	0.14	1000	Gray
39 @ 50 MHz	G, J, K	60 @ 350	1500	0.15	1000	White
47 @ 50 MHz	G, J, K	65 @ 350	1500	0.16	1000	Black
56 @ 50 MHz	G, J, K	65 @ 350	1300	0.18	1000	Brown
68 @ 50 MHz	G, J, K	65 @ 350	1300	0.20	1000	Red
82 @ 50 MHz	G, J, K	60 @ 350	1000	0.22	1000	Orange
100 @ 25 MHz	G, J, K	60 @ 350	1000	0.56	650	Yellow
120 @ 25 MHz	G, J, K	60 @ 350	950	0.63	650	Green
150 @ 25 MHz	G, J, K	45 @ 100	850	0.70	800	Blue
180 @ 25 MHz	G, J, K	45 @ 100	750	0.77	620	Violet
220 @ 25 MHz	G, J, K	45 @ 100	700	0.84	500	Gray
270 @ 25 MHz	G, J, K	45 @ 100	600	0.91	690	Black
330 @ 25 MHz	G, J, K	45 @ 100	570	1.05	450	Red
390 @ 25 MHz	G, J, K	45 @ 100	500	1.12	630	Yellow
470 @ 25 MHz	G, J, K	45 @ 100	450	1.19	470	Blue
560 @ 25 MHz	G, J, K	45 @ 100	415	1.33	580	Violet
620 @ 25 MHz	G, J, K	45 @ 100	375	1.40	300	Gray
680 @ 25 MHz	G, J, K	45 @ 100	375	1.47	540	White
750 @ 25 MHz	G, J, K	45 @ 100	360	1.54	360	Black
820 @ 25 MHz	G, J, K	45 @ 100	350	1.61	400	Brown
910 @ 25 MHz	G, J, K	35 @ 50	320	1.68	380	Red
1000 @ 25 MHz	G, J, K	35 @ 50	290	1.75	370	Orange
1200 @ 7.9 MHz	G, J, K	35 @ 50	250	2.00	310	Yellow
1500 @ 7.9 MHz	G, J, K	28 @ 50	200	2.30	330	Green
1800 @ 7.9 MHz	G, J, K	28 @ 50	160	2.60	300	Blue
2200 @ 7.9 MHz	G, J, K	28 @ 50	160	2.80	280	Violet
2700 @ 7.9 MHz	G, J, K	22 @ 25	140	3.20	290	Gray
3300 @ 7.9 MHz	G, J, K	22 @ 25	110	3.40	290	White
3900 @ 7.9 MHz	G, J, K	20 @ 25	100	3.60	260	Black
4700 @ 7.9 MHz	G, J, K	18 @ 25	90	4.00	260	Brown
5600 @ 7.9 MHz	G, J, K	16 @ 7.96	20	4.00	240	Red
6800 @ 7.9 MHz	G, J, K	15 @ 7.96	40	4.90	200	Orange
8200 @ 7.9 MHz	G, J, K	15 @ 7.96	25	6.00	170	Yellow
10000 @ 2.52 MHz	G, J, K	15 @ 7.96	20	9.00	150	Green
12000 @ 2.52 MHz	G, J, K	15 @ 7.96	18	10.5	130	Blue
15000 @ 2.52 MHz	G, J, K	15 @ 7.96	15	11.5	120	Violet

ATC Part Number Code

1008 WL 100 K T

EIA Case Size
0402, 0603, 0805, 1008, 1206

Wire Wound Inductor

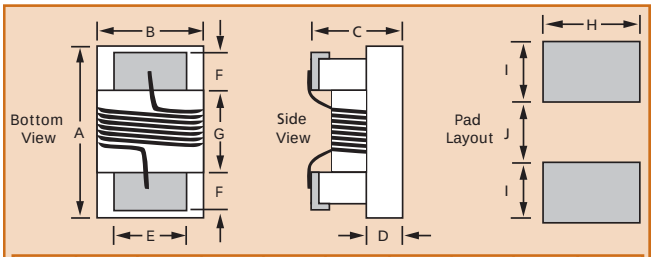
Inductance value in nH.
1st and 2nd digits are significant digits.
3rd digit is multiplier.
R is decimal point.

Tolerance.
See table below.

Packaging
T - Tape & Reel

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
0.16 (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)