Inductor Selection Guide

Inductance (nH)	Tolerance (%)	Q min.	SRF (MHz) typ.	RDC (Ohms) max.	IDC (mA)	900 MHz L typ.	900 MHz Q typ.	1.7 GHz L typ.	1.7 GHz Q typ.	Color code
1.6 @ 250 (MHz)	K	24	12,500	0.030	700	1.67	49	1.65	63	Red
1.8 @ 250 (MHz)	K	16	12,500	0.045	700	1.63	35	1.66	50	Black
3.6 @ 250 (MHz)	K	22	5900	0.063	700	3.72	53	3.71	65	Red
3.9 @ 250 (MHz)	K	22	6900	0.080	700	3.95	49	3.96	67	Brown
4.3 @ 250 (MHz)	K	22	5900	0.063	700	4.32	50	4.33	70	Orange
4.7 @ 250 (MHz)	K	20	5800	0.116	700	4.72	47	4.75	57	Violet
5.1 @ 250 (MHz)	K	20	5700	0.140	700	4.93	47	4.95	56	Green
6.3 @ 250 (MHz)	K	20	5700	0.140	700	5.50	47	6.10	60	White
6.8 @ 250 (MHz)	K	27	5800	0.110	700	6.75	60	7.10	81	Red
7.5 @ 250 (MHz)	K	28	4800	0.106	700	7.70	60	7.82	65	Brown
8.2 @ 250 (MHz)	K	28	4700	0.109	700	8.30	60	8.50	60	White
8.7 @ 250 (MHz)	J	28	4600	0.109	700	8.86	62	9.32	58	Yellow
9.5 @ 250 (MHz)	J	28	5400	0.135	700	9.70	59	9.92	61	Black
10 @ 250 (MHz)	J	31	4800	0.130	700	10.00	66	10.60	83	Orange
11 @ 250 (MHz)	J	33	4000	0.086	700	11.00	53	11.50	5	Gray
12 @ 250 (MHz)	J	35	4000	0.130	700	12.30	72	13.50	83	Yellow
15 @ 250 (MHz)	J	35	4000	0.170	700	15.40	64	16.80	89	Green
16 @ 250 (MHz)	J	34	3300	0.104	700	16.20	55	17.30	52	White
18 @ 250 (MHz)	J	35	3100	0.170	700	18.70	70	21.40	69	Black
22 @ 250 (MHz)	J	38	3000	0.190	700	22.80	73	26.10	71	Violet
24 @ 250 (MHz)	J	37	2650	0.135	700	24.50	45	28.70	39	Black
27 @ 250 (MHz)	J	40	2800	0.220	600	29.20	74	34.60	65	Gray
30 @ 250 (MHz)	J	37	2250	0.144	600	31.40	47	39.90	28	Brown
33 @ 250 (MHz)	J	40	2300	0.220	600	36.00	67	49.50	42	White
36 @ 250 (MHz)	J	38	2080	0.250	600	39.40	47	52.70	24	Red
39 @ 250 (MHz)	J	40	2200	0.250	600	42.70	60	60.20	40	Black
43 @ 250 (MHz)	J	39	2000	0.280	600	47.00	44	64.90	21	Orange
47 @ 200 (MHz)	J	38	2000	0.280	600	52.20	62	77.20	35	Brown
56 @ 200 (MHz)	J	38	1900	0.310	600	62.50	56	97.00	26	Red
68 @ 200 (MHz)	J	37	1700	0.340	600	80.50	54	168.00	21	Orange
72 @ 150 (MHz)	J	34	1700	0.490	400	82.00	53	135.00	20	Yellow
82 @ 150 (MHz)	J	34	1700	0.540	400	96.20	54	177.00	21	Green
100 @ 150 (MHz)	J	34	1400	0.580	400	124.00	49	–	–	Black
110 @ 150 (MHz)	J	32	1350	0.610	300	138.00	43	–	–	Violet
120 @ 150 (MHz)	J	32	1300	0.650	300	166.00	39	–	–	Gray
150 @ 150 (MHz)	J	28	990	0.920	280	250.00	25	–	–	White
180 @ 100 (MHz)	J	25	990	1.250	240	305.00	22	–	–	Black
220@ 100 (MHz)	J	25	900	1.900	200	480.00	8	–	–	Brown
270@ 100 (MHz)	J	24	900	2.800	170	980.00	4	–	–	Red

ATC Part Number Code

0603 WL 100 J 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.

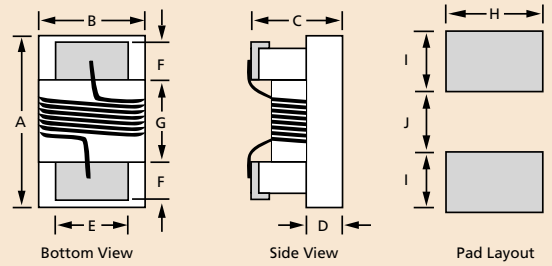
Packaging
T - Tape & Reel
B - Bulk

Tolerance.
See table below.

Inductance Tolerances		
Code	J (%)	K (%)
Tol.	± 5	± 10

The above part number refers to an ATC 0402 WL wire wound chip inductor, 10 nH, K (±10%) tolerance, in tape and reel packaging.
Tighter tolerances are available. Consult factory.

Mechanical Configurations



A max.	B max.	C max.	D ref.	E	F	G	H	I	J
.071 (1.80)	.044 (1.12)	.040 (1.02)	.015 (0.38)	.030 (0.76)	.013 (0.33)	.034 (0.86)	.040 (1.02)	.025 (0.64)	.025 (0.64)

Inches (mm)