

# ATC 0603 WL SERIES WIRE WOUND CHIP INDUCTORS

## Inductor Selection Guide

Inductance (nH)	Tolerance Code	Q min.	SRF (MHz) min.	RDC (Ohms) max.	IDC (mA) max.	900 MHz		1.7 GHz		Color code
						L typ.	Q typ.	L typ.	Q typ.	
1.6 @ 250 (MHz)	J, K	16	12,500	0.040	700	1.53	35	1.58	55	Blue
1.8 @ 250 (MHz)	J, K	16	12,500	0.045	700	1.63	35	1.66	50	Black
3.3 @ 250 (MHz)	J, K	22	6000	0.080	700	3.35	47	3.40	65	Red
3.6 @ 250 (MHz)	J, K	22	5900	0.063	700	3.72	53	3.71	65	Violet
3.9 @ 250 (MHz)	J, K	22	6900	0.080	700	3.95	49	3.96	67	Brown
4.3 @ 250 (MHz)	J, K	22	5900	0.063	700	4.32	50	4.33	70	Orange
4.7 @ 250 (MHz)	J, K	20	5800	0.116	700	4.72	47	4.75	57	Violet
5.1 @ 250 (MHz)	J, K	20	5700	0.140	700	4.93	47	4.95	56	Green
5.6 @ 250 (MHz)	J, K	20	5800	0.170	700	5.53	56	5.86	77	Yellow
6.8 @ 250 (MHz)	G, J, K	27	5800	0.110	700	6.75	60	7.10	81	Red
7.5 @ 250 (MHz)	G, J, K	28	4800	0.106	700	7.70	60	7.82	65	Brown
8.2 @ 250 (MHz)	G, J, K	28	4700	0.109	700	8.30	60	8.50	60	Green
8.7 @ 250 (MHz)	G, J, K	28	4600	0.109	700	8.86	62	9.32	58	Yellow
9.5 @ 250 (MHz)	G, J, K	28	5400	0.135	700	9.70	59	9.92	61	Blue
10 @ 250 (MHz)	G, J, K	31	4800	0.130	700	10.00	66	10.60	83	Orange
11 @ 250 (MHz)	G, J, K	33	4000	0.086	700	11.00	53	11.50	5	Gray
12 @ 250 (MHz)	G, J, K	35	4000	0.130	700	12.30	72	13.50	83	Yellow
15 @ 250 (MHz)	G, J, K	35	4000	0.170	700	15.40	64	16.80	89	Green
16 @ 250 (MHz)	G, J, K	34	3300	0.104	700	16.20	55	17.30	52	White
18 @ 250 (MHz)	G, J, K	35	3100	0.170	700	18.70	70	21.40	69	Blue
22 @ 250 (MHz)	G, J, K	38	3000	0.190	700	22.80	73	26.10	71	Violet
24 @ 250 (MHz)	G, J, K	37	2650	0.135	700	24.50	45	28.70	39	Black
27 @ 250 (MHz)	G, J, K	40	2800	0.220	600	29.20	74	34.60	65	Gray
30 @ 250 (MHz)	G, J, K	37	2250	0.144	600	31.40	47	39.90	28	Brown
33 @ 250 (MHz)	G, J, K	40	2300	0.220	600	36.00	67	49.50	42	White
36 @ 250 (MHz)	G, J, K	38	2080	0.250	600	39.40	47	52.70	24	Red
39 @ 250 (MHz)	G, J, K	40	2200	0.250	600	42.70	60	60.20	40	Black
43 @ 250 (MHz)	G, J, K	39	2000	0.280	600	47.00	44	64.90	21	Orange
47 @ 200 (MHz)	G, J, K	38	2000	0.280	600	52.20	62	77.20	35	Brown
56 @ 200 (MHz)	G, J, K	38	1900	0.310	600	62.50	56	97.00	26	Red
68 @ 200 (MHz)	G, J, K	37	1700	0.340	600	80.50	54	168.00	21	Orange
72 @ 150 (MHz)	G, J, K	34	1700	0.490	400	82.00	53	135.00	20	Yellow
82 @ 150 (MHz)	G, J, K	34	1700	0.540	400	96.20	54	177.00	21	Green
100 @ 150 (MHz)	G, J, K	34	1400	0.580	400	124.00	49	319.50	13	Blue
110 @ 150 (MHz)	G, J, K	32	1350	0.610	300	138.00	43	342.70	15	Violet
120 @ 150 (MHz)	G, J, K	32	1300	0.650	300	166.00	39	529.30	8	Gray
150 @ 150 (MHz)	G, J, K	32	1300	0.950	280	230.00	25	-	-	White
180 @ 100 (MHz)	G, J, K	25	1250	1.400	250	303.00	20	-	-	Black
220 @ 100 (MHz)	G, J, K	25	1200	1.600	250	440.00	15	-	-	Brown
270 @ 100 (MHz)	G, J, K	25	900	2.100	200	580.00	12	-	-	Red
330 @ 100 (MHz)	G, J, K	25	900	3.800	100	440.00	15	-	-	Blue
390 @ 100 (MHz)	G, J, K	25	900	4.350	100	580.00	12	-	-	Yellow

### 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

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
.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)

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 0603 WL wire wound chip inductor, 10 nH, J (±5%) tolerance, in tape and reel packaging. Tighter tolerances are available. Consult factory.

Inches (mm)

## AMERICAN TECHNICAL CERAMICS

ATC North America  
631-622-4700 • sales@atceramics.com

ATC Europe  
+46 8 6800410 • sales@atceramics-europe.com

ATC Asia  
+86-755-2396-8759 • sales@atceramics-asia.com