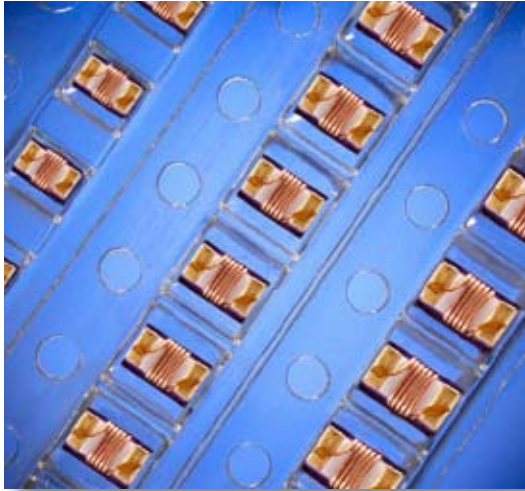


# RF WIREWOUND CHIP INDUCTORS



These high frequency High-Q chip inductors feature a monolithic body made of low loss ceramic wound with wire to achieve optimal high frequency performance.

These RF chip inductors are compact in size and are provided on tape and reel packaging which makes them ideal for high volume RF applications. They feature a nickel barrier with a top plating of gold for the ceramic core types (all 0402, all 0603, and most 0805 types), and with a top plating of 100% tin for the ferrite core types (0805 size, 470 nH and higher). Most inductance values between those listed are available on request.

## APPLICATIONS

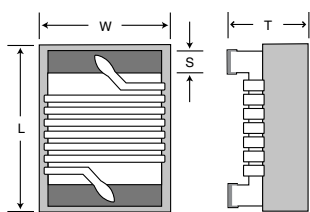
- CELL/PCS Modules
- Wireless LAN
- Broadband Components
- RFID
- RF Transceivers
- Cordless Phone
- Cable Modem
- Computer Peripherals
- Bluetooth
- ASDL

## PRODUCT RANGE SUMMARY

EIA SIZE (mm)	SIZE CODE	L RANGE	Q FACTOR (Typ.)	SRF (Typ.)	TEMPERATURE
0402 (1005)	L-07	1.0 - 120 nH	55 (900 MHz)	>11 GHz (1.0 nH)	-40°C to + 125°C
0603 (1608)	L-14	2.0 - 470 nH	60 (900 MHz)	>13 GHz (2.0 nH)	-40°C to + 125°C
0805 (2012)	L-15	2.2 - 10,000 nH	60 (500 MHz)	>11 GHz (2.2 nH)	-40°C to + 125°C*

\*-40 deg. C to +85 deg. C for ferrite core types

## MECHANICAL CHARACTERISTICS



	0402 (1005)		0603 (1608)		0805 (2012)	
	Inches	mm	Inches	mm	Inches	mm
Length	.039 ±.004"	(1.00 ±.10)	.063 ±.008"	(1.60 ±.20)	.079 ±.008"	(2.00 ±.20)
Width	.022 ±.004"	(0.55 ±.10)	.041 ±.008"	(1.05 ±.20)	.049 ±.008"	(1.25 ±.20)
Thickness	.020 ±.004"	(0.50 ±.10)	.041 ±.008"	(1.05 ±.20)	.047 ±.008"	(1.20 ±.20)
End Band	.008 ±.004"	(0.20 ±.10)	.014 ±.004"	(0.35 ±.10)	.016 ±.004"	(0.40 ±.10)

## HOW TO ORDER

L-	07	W	4N3	S	V	4	T
DEVICE	SIZE	TYPE	VALUE	TOLERANCE*	TERMINATION	MARKING	TAPE & REEL
Inductor	07 = 0402 14 = 0603 15 = 0805	W = Wirewound on Ceramic Core F = Wirewound on Ferrite Core	See Table	C = ± 0.2 nH S = ± 0.3 nH G = ± 2% J = ± 5% K = ± 10%	V = Ni / Au for "W" types, and V = Ni / 100% Sn for "F" types	4 = No Marking	Size Code Tape Reel Qty 0402 T Paper 7" 10,000 0603 E Embossed 7" 3,000 0805 E Embossed 7" 2,000

Example Part Number:

**L-07W4N3SV4T** is: 0402 Wirewound, 4.3 nanohenry, +/- 0.3 nH tolerance, Ni / Au termination, No Marking, Paper tape on a 7" reel.

\* See selection chart on the following pages for available tolerances of each value.

## RF WIREWOUND CHIP INDUCTOR SELECTION CHART

EIA Size		0402 (L-07)		0603 (L-14)		0805 (L-15)		
Inductor Value	Inductance nH	Code	Tolerance	Rated Current	Tolerance	Rated Current	Tolerance	Rated Current
1.0	1N0	C, S	1360 mA					
1.2	1N2	C, S	1300 mA					
1.6	1N6			C, S	700 mA			
1.8	1N8	C, S	1040 mA	C, S	700 mA			
1.9	1N9	C, S	1040 mA					
2.0	2N0	C, S	1040 mA	C, S	700 mA			
2.2	2N2	C, S	960 mA			C, S	800 mA	
2.4	2N4	C, S	790 mA					
2.6	2N6	C, S	640 mA					
2.7	2N7	C, S	640 mA			C, S	800 mA	
3.3	3N3	C, J, K	840 mA	C, S	700 mA	C, S	800 mA	
3.6	3N6	C, J, K	840 mA	C, S	700 mA			
3.9	3N9	C, J, K	840 mA	C, S	700 mA	C, S	600 mA	
4.3	4N3	C, J, K	700 mA	C, S	700 mA			
4.7	4N7	C, J, K	640 mA	C, S	700 mA	C, S	600 mA	
5.1	5N1	C, J, K	800 mA	C, J, K	700 mA			
5.6	5N6	C, J, K	760 mA	C, J, K	700 mA	C, J, K	600 mA	
6.2	6N2	C, J, K	760 mA					
6.8	6N8	C, J, K	680 mA	C, J, K	700 mA	C, J, K	600 mA	
7.5	7N5	C, J, K	680 mA	C, J, K	700 mA			
8.2	8N2	C, J, K	680 mA	C, J, K	700 mA	C, J, K	600 mA	
8.7	8N7	C, J, K	480 mA	G, J, K	700 mA			
9.0	9N0	C, J, K	680 mA					
9.5	9N5	C, J, K	680 mA					
10	10N	G, J, K	480 mA	G, J, K	700 mA	G, J, K	600 mA	
11	11N	G, J, K	640 mA	G, J, K	700 mA			
12	12N	G, J, K	640 mA	G, J, K	700 mA	G, J, K	600 mA	
13	13N	G, J, K	560 mA					
15	15N	G, J, K	560 mA	G, J, K	700 mA	G, J, K	600 mA	
16	16N	G, J, K	560 mA			G, J, K	600 mA	
18	18N	G, J, K	420 mA	G, J, K	700 mA	G, J, K	600 mA	
19	19N	G, J, K	480 mA					
20	20N	G, J, K	420 mA			G, J, K	600 mA	
22	22N	G, J, K	400 mA	G, J, K	700 mA	G, J, K	600 mA	
23	23N	G, J, K	400 mA					
24	24N	G, J, K	400 mA					
27	27N	G, J, K	400 mA	G, J, K	600 mA	G, J, K	600 mA	
30	30N	G, J, K	400 mA					
33	33N	G, J, K	400 mA	G, J, K	600 mA	G, J, K	500 mA	
36	36N	G, J, K	320 mA					
39	39N	G, J, K	320 mA	G, J, K	600 mA	G, J, K	500 mA	
40	40N	G, J, K	320 mA					
43	43N	G, J, K	100 mA					
47	47N	G, J, K	100 mA	G, J, K	600 mA	G, J, K	500 mA	
51	51N	J, K	100 mA	G, J, K	600 mA			
56	56N	J, K	100 mA	G, J, K	600 mA	G, J, K	500 mA	
68	68N	J, K	100 mA	G, J, K	600 mA	G, J, K	500 mA	
72	72N			G, J, K	400 mA			
82	82N	J, K	100 mA	G, J, K	400 mA	G, J, K	500 mA	
100	R10	J, K	100 mA	G, J, K	400 mA	G, J, K	500 mA	
110	R11	J, K	100 mA					
120	R12	J, K	100 mA	G, J, K	300 mA	G, J, K	500 mA	
150	R15			G, J, K	280 mA	G, J, K	400 mA	
180	R18			G, J, K	240 mA	G, J, K	400 mA	
220	R22			G, J, K	200 mA	G, J, K	400 mA	
270	R27			G, J, K	170 mA	G, J, K	350 mA	

EIA Size		0402 (L-07)		0603 (L-14)		0805 (L-15)		
Inductor Value	Inductance nH	Code	Tolerance	Rated Current	Tolerance	Rated Current	Tolerance	Rated Current
330	R33			J, K	150 mA	G, J, K	300 mA	
390	R39			J, K	100 mA	G, J, K	210 mA	
470	R47					J, K	500 mA	
560	R56					J, K	450 mA	
680	R68					J, K	400 mA	
820	R82					J, K	300 mA	
1000	1R0					J, K	180 mA	
1200	1R2					J, K	150 mA	
1500	1R5					J, K	130 mA	
1800	1R8					J, K	120 mA	
2200	2R2					J, K	110 mA	
2700	2R7					J, K	100 mA	
3300	3R3					J, K	210 mA	
3900	3R9					J, K	200 mA	
4700	4R7					J, K	180 mA	
5600	5R6					J, K	160 mA	
6800	6R8					J, K	130 mA	
8200	8R2					J, K	120 mA	
10000	10R					J, K	80 mA	

Consult factory for Non-Standard values.

See web page for WireWound Inductor Product Detail Summary by part number

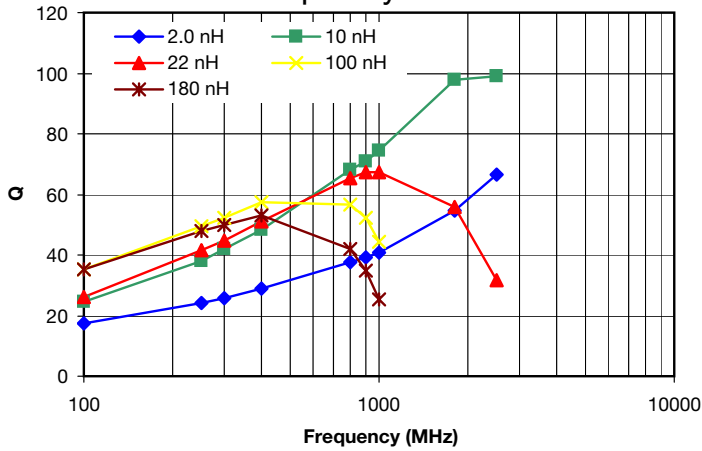
Q vs Frequency for 0402 Size



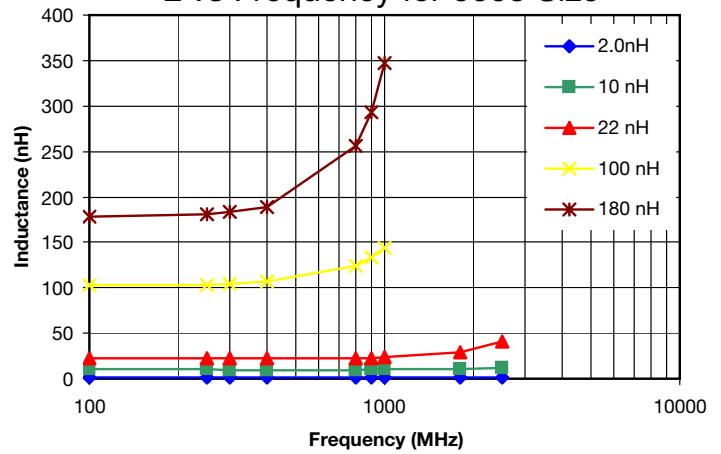
L vs Frequency for 0402 Size



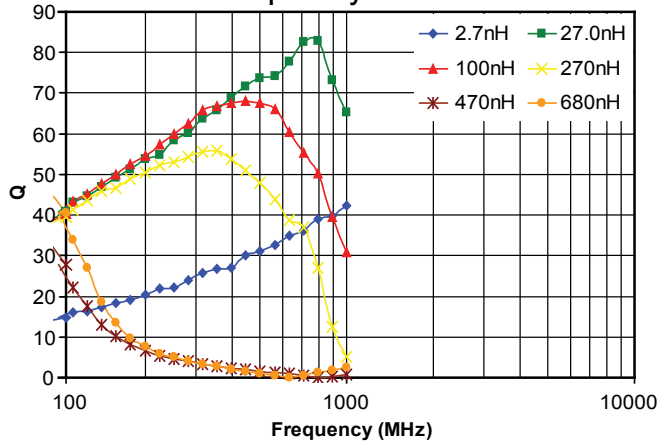
Q vs Frequency for 0603 Size



L vs Frequency for 0603 Size



Q vs Frequency for 0805 Size



L vs Frequency for 0805 Size

