

RF CERAMIC CHIP INDUCTORS



High frequency multi-layer chip inductors feature a monolithic body made of low loss ceramic and high conductivity metal electrodes to achieve optimal high frequency performance.

These RF chip inductors are compact in size and feature lead-free tin plated nickel barrier terminations and tape and reel packaging which makes them ideal for small size/high volume wireless applications.

APPLICATIONS & FEATURES

- CELL/PCS Modules
- Broadband Components
- RF Tranceivers
- RoHS Compliant (Standard, "V" Code)
- Sn/Pb Terminations Optional ("T" Code)
- Wireless LAN
- RFID
- 01005 Mini. Size Available

PRODUCT RANGE SUMMARY

EIA SIZE (mm)	SIZE CODE	L RANGE	Q FACTOR (Min.)	SRF (Typ.)	TEMPERATURE
01005 (0402)	L-03	0.8 - 3.9 nH	2 (100 MHz)	>21 GHz (1.0 nH)	-40°C to +100°C
0201 (0603)	L-05	0.6 - 39 nH	4 (100 MHz)	>21 GHz (1.0 nH)	-40°C to +100°C
0402 (1005)	L-07	1.0 - 120 nH	8 (100 MHz)	>21 GHz (1.0 nH)	-40°C to +100°C
0603 (1608)	L-14	1.0 - 220 nH	12 (100 MHz)	>23 GHz (1.0 nH)	-40°C to +100°C

MECHANICAL CHARACTERISTICS

	01005 (0402)		0201 (0603)		0402 (1005)		0603 (1608)		
	Inches	mm	Inches	mm	Inches	mm	Inches	mm	
Length	.016 ±.001"	(0.4 ± 0.03)	.024 ±.001"	(0.6 ± 0.03)	.039 ±.004"	(1.00 ±.10)	.063 ±.006"	(1.60 ±.15)	
Width	.008 ±.001"	(0.2 ± 0.03)	.012 ±.001"	(0.3 ± 0.03)	.020 ±.004"	(0.50 ±.10)	.031 ±.006"	(0.80 ±.15)	
Thickness	.008 ±.001"	(0.2 ± 0.03)	.012 ±.001"	(0.3 ± 0.03)	.020 ±.004"	(0.50 ±.10)	.031 ±.006"	(0.80 ±.15)	
End Band	.004 ±.002"	(0.1 ± 0.05)	.006 ±.002"	(0.15 ± 0.05)	.009 ±.004"	(0.23 ±.10)	.012 ±.008"	(0.30 ±.20)	

HOW TO ORDER

L-	07	C	10N	J	V	6	T					
DEVICE	SIZE	TYPE	VALUE	TOLERANCE	TERMINATION	MARKING	TAPE & REEL	Size	Code	Tape	Reel	Qty
Inductor	03 = 01005 05 = 0201 07 = 0402 14 = 0603	B = Polarity Marked (0201 size only) C = Non-Polarity Marked	See Table	C = ± 0.2 nH ≤ 1.0 nH S = ± 0.3 nH 1.0 to 5.6 nH J = ± 5% 6.8 nH and above K = ± 10% 3.3 nH and above	V = Ni/Sn T = Ni / SnPb	4 = No Marking 6 = Orientation Mark		01005	T	Paper	7"	30,000
								0201	T	Paper	7"	15,000
								0402	T	Paper	7"	10,000
								0603	T	Paper	7"	4,000

Part number written: L-07C10NJV6T



RF CHIP INDUCTOR SELECTION CHART

Inductor Value			EIA Size	01005 (L-03)	0201 (L-05)	0402 (L-07)	0603 (L-14)
Inductance nH	Code	Tolerance		Rated Current			
0.6	0N6	C S			300 mA		
0.7	0N7				300 mA		
0.8	0N8			200 mA (S only)	300 mA		
0.9	0N9				300 mA		
1.0	1N0			200 mA (S only)	300 mA	300 mA	300 mA (S only)
1.2	1N2			200 mA (S only)	300 mA	300 mA (S only)	300 mA (S only)
1.3	1N3				300 mA		
1.5	1N5	S		200 mA (S only)	300 mA	300 mA (S only)	300 mA (S only)
1.8	1N8			200 mA	300 mA	300 mA	300 mA
1.9	1N9				300 mA	300 mA	
2.0	2N0				300 mA	300 mA	
2.2	2N2			200 mA	300 mA	300 mA	300 mA
2.3	2N3				300 mA		
2.4	2N4				300 mA	300 mA	
2.5	2N5	K S			300 mA		
2.7	2N7			200 mA	300 mA	300 mA	300 mA
3.0	3N0				300 mA	300 mA	
3.3	3N3			200 mA	300 mA	300 mA	300 mA
3.6	3N6				300 mA	300 mA	
3.7	3N7				300 mA		
3.9	3N9			200 mA	300 mA	300 mA	300 mA
4.3	4N3	J K				300 mA	
4.7	4N7				300 mA	300 mA	300 mA
5.1	5N1				300 mA	300 mA	
5.6	5N6				300 mA	300 mA	300 mA
6.2	6N2					300 mA	
6.8	6N8				250 mA	250 mA	300 mA
7.5	7N5					250 mA	
8.2	8N2				250 mA	250 mA	300 mA
10	10N				250 mA	250 mA	300 mA
12	12N				250 mA	250 mA	300 mA
13	13N				250 mA	250 mA	
15	15N				250 mA	250 mA	300 mA
18	18N				200 mA	200 mA	300 mA
20	20N				200 mA	200 mA	
22	22N				200 mA	200 mA	300 mA
23	23N					200 mA	
27	27N				200 mA	200 mA	300 mA
33	33N				200 mA	200 mA	300 mA
39	39N				200 mA	150 mA	300 mA
43	43N					150 mA	
47	47N					150 mA	300 mA
56	56N					150 mA	300 mA
68	68N					100 mA	300 mA
82	82N					100 mA	300 mA
100	R10					100 mA	300 mA
120	R12					100 mA	300 mA
150	R15						300 mA
180	R18						300 mA
220	R22						300 mA
270	R27						
330	R33						
390	R39						
420	R42						
560	R56						
680	R68						

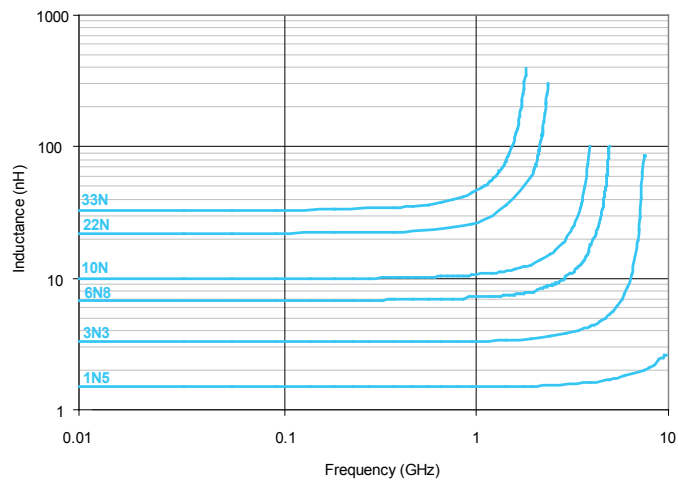
Consult factory for Non-Standard values.

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

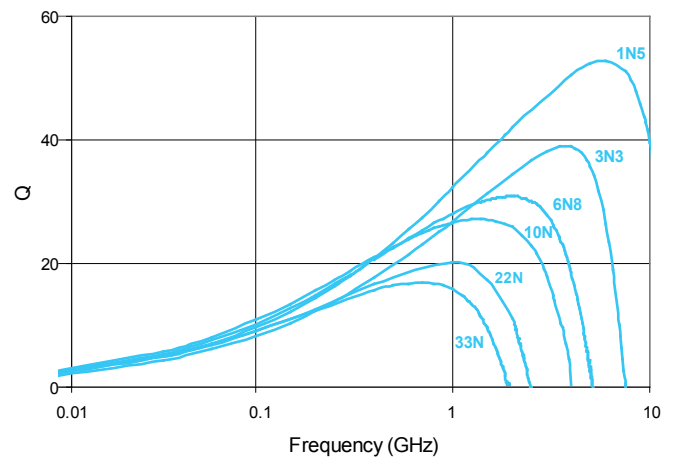


RF CHARACTERISTICS CHARACTERISTICS (TYPICAL)

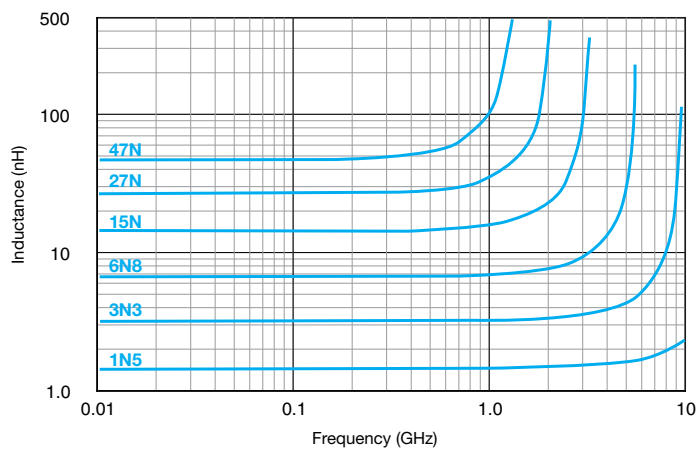
INDUCTANCE VS FREQUENCY: SIZE 0201



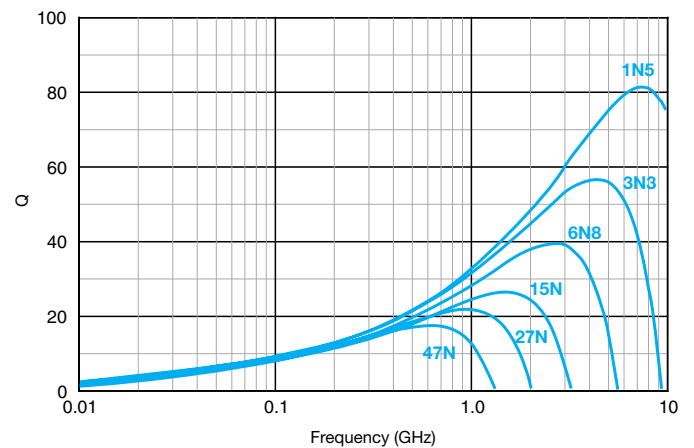
Q VS FREQUENCY: SIZE 0201



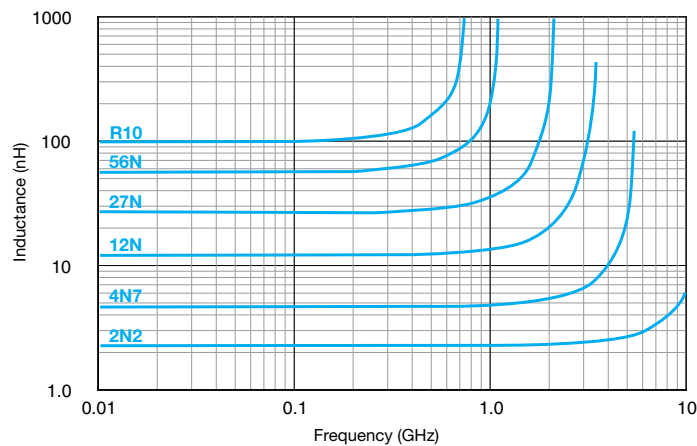
INDUCTANCE VS FREQUENCY: SIZE 0402



Q VS FREQUENCY: SIZE 0402



INDUCTANCE VS FREQUENCY: SIZE 0603



Q VS FREQUENCY: SIZE 0603

