

Based on the well established technology for ceramic RF capacitors, these multi-layer ceramic chip inductors are ideal for use in many high volume RF wireless applications. The design features specially formulated conductive elements in a high quality ceramic body. This produces an inductor that exhibits good RF characteristics at frequencies up to 6.0 GHz.

KEY ADVANTAGES

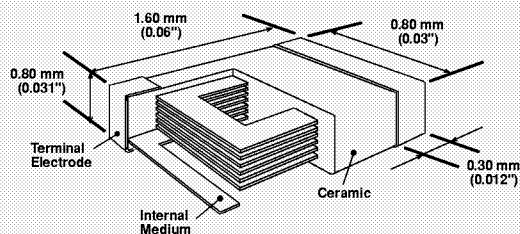
- HIGH Q
- HIGH SRF
- SMALL SIZE
- LOW COST

APPLICATIONS

- MOBILE COMMS
- WIRELESS LAN
- GPS
- CATV / SATTV



MECHANICAL CHARACTERISTICS



CASE SIZE	JTI / EIA	R14 / 0603	R15 / 0805
LENGTH $\pm .010"$	(mm)	.060 (1.52)	.080 (2.03)
WIDTH $\pm .010"$	(mm)	.030 (0.76)	.050 (1.27)
THICKNESS MAX"	(mm)	.035 (0.90)	.050 (1.27)
ENDBAND MAX"	(mm)	.015 (0.38)	.020 (0.51)

HOW TO ORDER

L-C	14	10N	J	E
TYPE Inductor, Ceramic	CASE SIZE See Chart	INDUCTANCE See Tabular List	TOLERANCE * S = ± 0.3 nH J = $\pm 5\%$ K = $\pm 10\%$ * Values ≤ 2.7 nH only	TAPE MODIFIER Tape Code: T, Tape Type: Paper, Reel Size: 7"

JTI tape specifications conform to EIA RS481.

C-SERIES High Frequency Chip Inductors

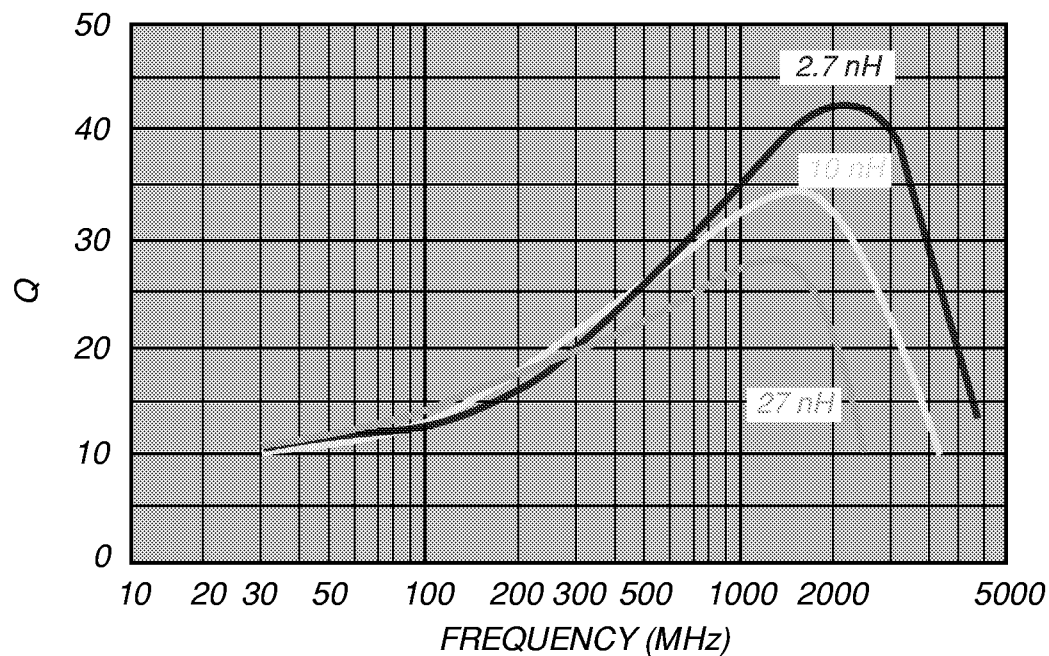
0603 Inductance Range

Part Number	Inductance @100 MHz	Q Typical 100 MHz	Q Typical 800 MHz	Self Res. Freq. (MIN)	DC Res. (MAX)	Rated Current
L-C141N5S_-	1.5 ± 0.3	12	36	4000 MHz	0.10 Ω	300 mA
L-C141N8S_-	1.8 ± 0.3	12	35	3800 MHz	0.12 Ω	300 mA
L-C142N2S_-	2.2 ± 0.3	10	34	3600 MHz	0.16 Ω	300 mA
L-C142N7S_-	2.7 ± 0.3	10	32	3200 MHz	0.20 Ω	300 mA
L-C143N3_-	3.3 nH	10	30	3200 MHz	0.22 Ω	300 mA
L-C143N9_-	3.9 nH	10	32	3000 MHz	0.25 Ω	300 mA
L-C144N7_-	4.7 nH	10	32	2800 MHz	0.28 Ω	300 mA
L-C145N6_-	5.6 nH	12	34	2700 MHz	0.29 Ω	300 mA
L-C146N8_-	6.8 nH	12	32	2600 MHz	0.30 Ω	300 mA
L-C148N2_-	8.2 nH	12	28	2200 MHz	0.33 Ω	300 mA
L-C1410N_-	10.0 nH	12	32	1800 MHz	0.35 Ω	300 mA
L-C1412N_-	12.0 nH	12	30	1650 MHz	0.40 Ω	300 mA
L-C1415N_-	15.0 nH	12	24	1350 MHz	0.45 Ω	300 mA
L-C1418N_-	18.0 nH	12	26	1350 MHz	0.50 Ω	300 mA
L-C1422N_-	22.0 nH	13	30	1100 MHz	0.55 Ω	300 mA
L-C1427N_-	27.0 nH	14	28	1100 MHz	0.60 Ω	300 mA
L-C1433N_-	33.0 nH	14	26	1100 MHz	0.65 Ω	300 mA
L-C1439N_-	39.0 nH	15	20	900 MHz	0.70 Ω	300 mA

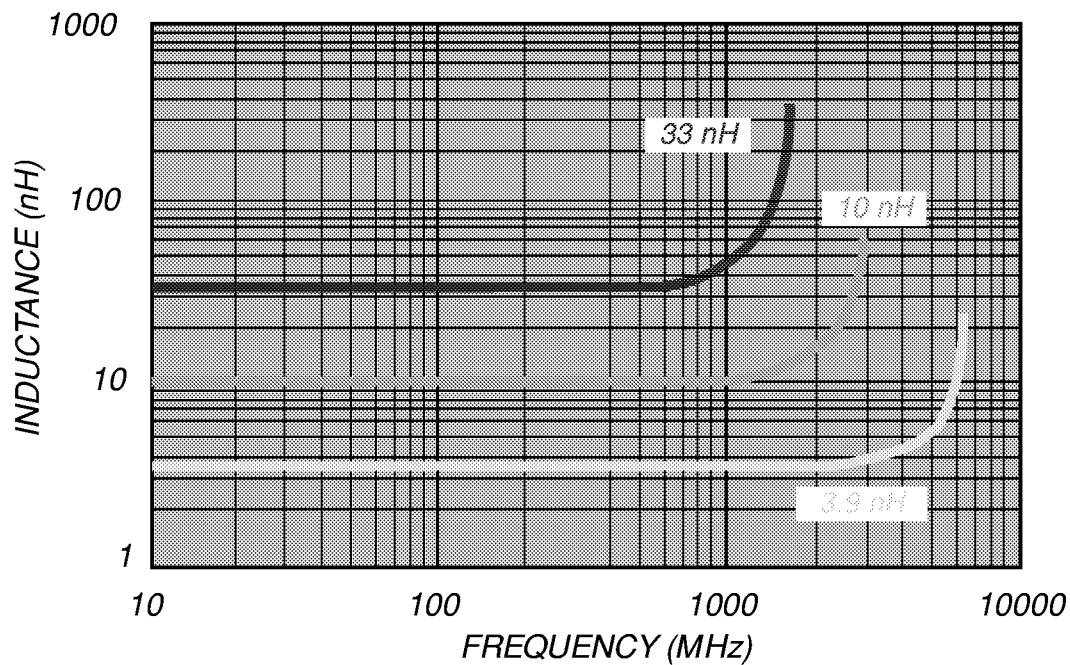
0805 Inductance Range

Part Number	Inductance @100 MHz	Q Typical 100 MHz	Q Typical 800 MHz	Self Res. Freq. (MIN)	DC Res. (MAX)	Rated Current
L-C152N2S_-	2.2 ± 0.3	14	45	6000 MHz	0.10 Ω	300 mA
L-C152N7S_-	2.7 ± 0.3	14	38	6000 MHz	0.13 Ω	300 mA
L-C153N3_-	3.3 nH	14	54	6000 MHz	0.15 Ω	300 mA
L-C153N9_-	3.9 nH	15	52	5400 MHz	0.20 Ω	300 mA
L-C154N7_-	4.7 nH	15	50	4500 MHz	0.23 Ω	300 mA
L-C155N6_-	6.6 nH	15	52	4000 MHz	0.25 Ω	300 mA
L-C156N8_-	6.8 nH	15	50	3650 MHz	0.25 Ω	300 mA
L-C158N2_-	8.2 nH	16	52	3000 MHz	0.28 Ω	300 mA
L-C1510N_-	10.0 nH	16	44	2500 MHz	0.30 Ω	300 mA
L-C1512N_-	12.0 nH	16	46	2450 MHz	0.35 Ω	300 mA
L-C1515N_-	15.0 nH	17	46	2000 MHz	0.40 Ω	300 mA
L-C1518N_-	18.0 nH	17	44	1750 MHz	0.45 Ω	300 mA
L-C1522N_-	22.0 nH	18	48	1700 MHz	0.50 Ω	300 mA
L-C1527N_-	27.0 nH	18	40	1550 MHz	0.55 Ω	300 mA
L-C1533N_-	33.0 nH	18	36	1350 MHz	0.60 Ω	300 mA
L-C1539N_-	39.0 nH	18	40	1300 MHz	0.65 Ω	300 mA
L-C1547N_-	47.0 nH	19	34	1200 MHz	0.70 Ω	300 mA
L-C1556N_-	56.0 nH	20	32	1150 MHz	0.75 Ω	300 mA
L-C1568N_-	68.0 nH	20	30	1000 MHz	0.80 Ω	300 mA
L-C1582N_-	82.0 nH	20	10	850 MHz	0.90 Ω	300 mA

Q vs FREQUENCY: 0603

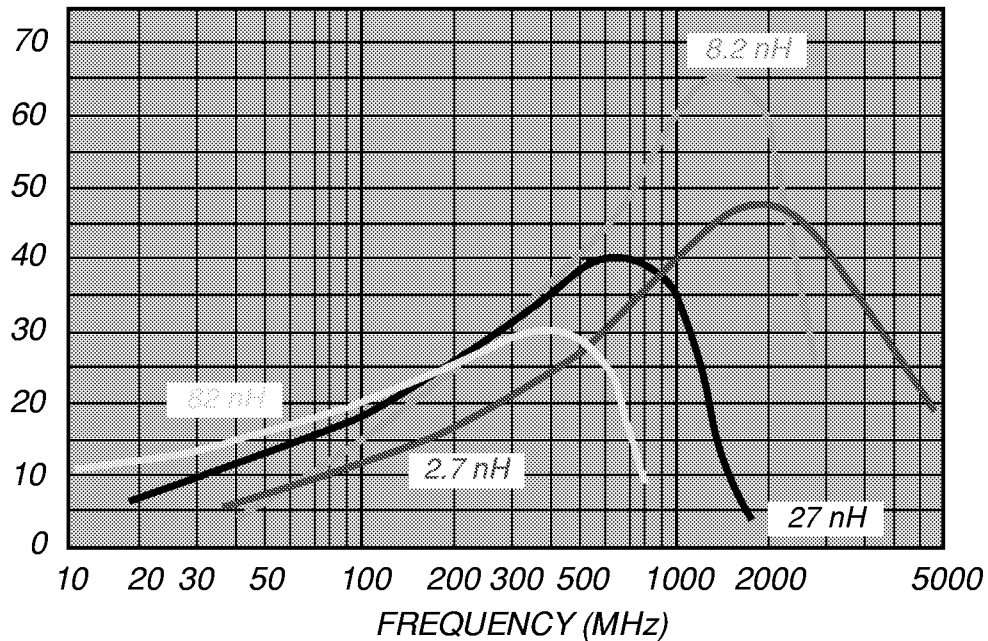


INDUCTANCE vs. FREQUENCY: 0603

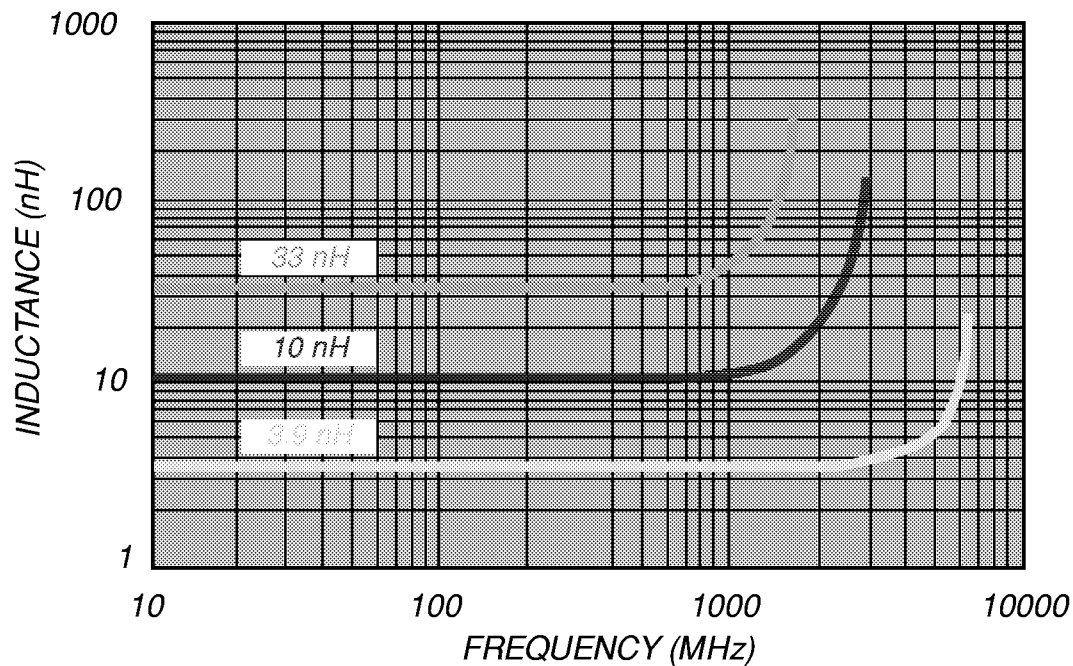


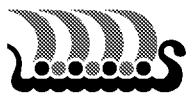
High Frequency Ceramic Chip Inductors

Q vs FREQUENCY: 0805



INDUCTANCE vs. FREQUENCY: 0805



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