

■ Features:

- Can be used for high frequency bands up to GHz and stable inductance at high frequency
- The high self resonant frequency realizes high Q value
- Low DC resistance design is ideal for low loss, high output and low power consumption

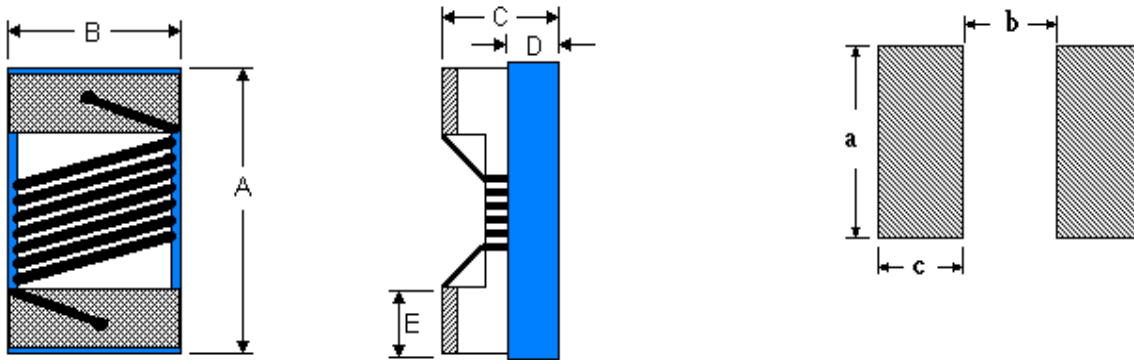
■ Applications:

- For high-frequency applications including mobile phones, portable phones, such as PA, ANT, VCO, SAW, etc
- Mobile phones such as GSM, CDMA, PDA, etc
- Bluetooth, W-LAN

■ Parts code:

NLC 0402	10N	J
Type	Inductance code	Tolerance

■ Recommended Land Pattern:



Dimensions in mm

TYPE	A	B	C	D	E	a	b	c
NLC 0402	1.27 max	0.76 max	0.61 max	0.15 Ref	0.23	0.66	0.46	0.50
NLC 0603	1.80 max	1.20 max	1.02 max	0.45 Ref	0.33	1.02	0.64	0.64
NLC 0805	2.40 max	1.65 max	1.45 max	0.65 Ref	0.44	1.78	0.76	1.02
NLC 1008	2.90 max	2.54 max	2.03 max	1.30 Ref	0.45	2.54	1.27	1.02

■ Package:

TYPE	NLC 0402	NLC 0603	NLC 0805	NLC 1008
Q'TY / Reel	4000	3000	2000	2000

■ Operating temperature range from -40°C to 125°C.

Storage Temperature: -10°C to +40°C, 70% RH max.

■ Specifications

Inductance			NLC 0603							
			Q / MHz		900MHz		1.7GHz		SRF	DCR
Code	nH / MHz	Tolerance	(Min)	L typ	Q typ	L typ	Q typ	(GHz) Min	(Ω) Max	(mA) Max
2N0	2.0 / 250	B,S	13 / 250	2.02	35	2.04	50	8.0	0.07	700
3N9	3.9 / 250	B,S	22 / 250	3.95	49	3.96	67	6.9	0.07	700
4N7	4.7 / 250	B,S	20 / 250	4.72	47	4.75	57	5.8	0.12	700
5N6	5.6 / 250	B,J,S	20 / 250	5.45	54	5.60	76	4.8	0.12	700
6N8	6.8 / 250	B,J,K	27 / 250	6.75	60	7.10	81	5.8	0.08	700
8N2	8.2 / 250	B,J,K	30 / 250	8.25	82	8.37	87	4.2	0.13	700
8N7	8.7 / 250	B,J,K	30 / 250	8.75	68	8.86	72	4.2	0.13	700
10N	10 / 250	G,J,K	31 / 250	10.0	66	10.6	83	4.8	0.13	700
12N	12 / 250	G,J,K	35 / 250	12.3	72	13.5	83	4.0	0.13	700
15N	15 / 250	G,J,K	35 / 250	15.4	64	16.8	89	4.0	0.13	700
18N	18 / 250	G,J,K	35 / 250	18.7	70	21.4	69	3.1	0.16	700
22N	22 / 250	G,J,K	38 / 250	22.8	73	26.1	71	3.0	0.23	700
27N	27 / 250	G,J,K	40 / 250	29.2	74	34.6	65	2.8	0.14	600
33N	33 / 250	G,J,K	40 / 250	36.0	67	49.5	42	2.3	0.22	600
39N	39 / 250	G,J,K	40 / 250	42.7	60	60.2	40	2.2	0.30	600
47N	47 / 200	G,J,K	38 / 250	52.2	62	77.2	35	2.0	0.35	600
56N	56 / 200	G,J,K	38 / 250	62.5	56	97.0	26	1.9	0.37	600
68N	68 / 200	G,J,K	37 / 250	80.5	54	168	21	1.7	0.43	600
72N	72 / 150	G,J,K	34 / 250	82.0	53	135	20	1.7	0.42	400
82N	82 / 150	G,J,K	34 / 250	96.2	54	177	21	1.7	0.71	400
R10	100 / 150	G,J,K	34 / 250	124	49	-	-	1.4	0.78	400
R12	120 / 150	G,J,K	32 / 250	166	39	-	-	1.3	0.84	300
R15	150 / 150	G,J,K	28 / 250	250	25	-	-	0.99	0.96	280
R18	180 / 100	G,J,K	25 / 250	305	22	-	-	0.99	1.52	240
R22	220 / 100	G,J,K	25 / 250	-	-	-	-	0.9	2.02	200
R27	270 / 100	G,J,K	24 / 250	-	-	-	-	0.9	2.36	170
R33	330 / 100	G,J,K	24 / 250	-	-	-	-	0.7	2.20	185
R39	390 / 100	G,J,K	24 / 250	-	-	-	-	0.9	3.60	100

■ Notes: Tolerance: B (± 0.2nH), S (± 0.3nH), G (± 2%), J (± 5%), K (± 10%)