

■ Features:

- Utilizing a miniaturized winding structure
- These products provide low DC resistance and high current
- Precision inductance tolerance is available

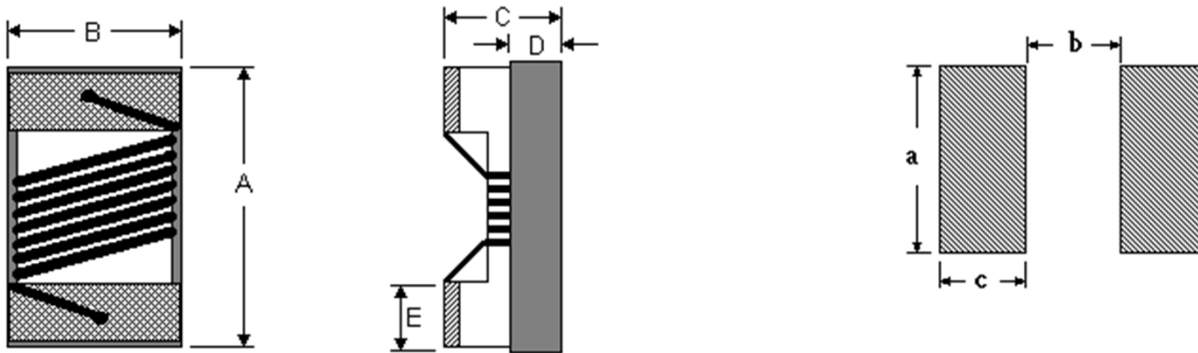
■ Applications:

- Personal computers, Hard disk drives
- ADSL modem and Cable modem
- Digital camera and other electronic equipment

■ Parts code:

NLP 0603 — 1R0 — J
 Type Inductance code Tolerance: J : ± 5%
 K : ± 10%

■ Recommended Land Pattern:



Dimensions in mm

TYPE	A	B	C	D	E	a	b	c
NLP 0603	1.80 max	1.20 max	1.20 max	0.45 ref	0.33±0.1	1.10	0.64	0.64
NLP 1008	2.90 max	2.54 max	2.10 max	1.3 ref	0.5±0.1	2.54	1.27	1.00
NLP 1210	3.60 max	2.90 max	2.50 max	1.1 ref	0.5±0.1	2.80	2.00	1.20

■ Package:

TYPE	NLP 0603	NLP 1008	NLP 1210
Q'TY / Reel	4000	2000	2000

- Operating temperature range from -25°C to 105°C.
 Storage Temperature: -10°C to +40°C, 70% RH max.

■ Specifications

Inductance			NLP 0603				
			Q	Test Frequency	SRF	DC Resistance	Rated Current
Code	uH	Tolerance	(Min)	(L, Q) MHz	(MHz) Min	(Ω) Max	(mA) Max
47N	0.047	K	12	7.96 / 7.96	2000	0.075	1600
51N	0.051	J	12	7.96 / 7.96	1500	0.075	1500
68N	0.068	J	12	7.96 / 7.96	1500	0.12	1400
72N	0.072	K	12	7.96 / 7.96	1500	0.12	1400
R10	0.10	K	12	7.96 / 7.96	1150	0.13	1300
R12	0.12	J,K	12	7.96 / 7.96	1100	0.15	1300
R15	0.15	J,K	15	7.96 / 7.96	1050	0.15	1200
R18	0.18	J,K	15	7.96 / 7.96	950	0.15	1100
R22	0.22	J,K	15	7.96 / 7.96	900	0.15	940
R24	0.24	J,K	15	7.96 / 7.96	850	0.16	1000
R27	0.27	J,K	15	7.96 / 7.96	835	0.30	950
R33	0.33	J,K	15	7.96 / 7.96	725	0.40	940
R39	0.39	J,K	15	7.96 / 7.96	680	0.41	860
R47	0.47	J,K	15	7.96 / 7.96	640	0.43	820
R56	0.56	J,K	15	7.96 / 7.96	630	0.44	770
R68	0.68	J,K	15	7.96 / 7.96	510	0.52	730
R78	0.78	J,K	15	7.96 / 7.96	465	0.63	730
R82	0.82	J,K	15	7.96 / 7.96	460	0.69	660
1R0	1.0	J,K	15	7.96 / 7.96	320	0.81	630
1R2	1.2	J,K	15	7.96 / 7.96	270	0.87	540
1R5	1.5	J,K	15	7.96 / 7.96	230	0.96	560
1R8	1.8	J,K	15	7.96 / 7.96	210	1.10	500
2R2	2.2	J,K	15	7.96 / 7.96	115	1.20	500
3R3	3.3	J,K	15	7.96 / 7.96	84	1.50	420
3R9	3.9	J,K	15	7.96 / 7.96	75	1.50	400
4R7	4.7	J,K	15	7.96 / 7.96	67	2.10	350
5R6	5.6	J,K	15	7.96 / 7.96	55	2.37	340
6R8	6.8	J,K	15	7.96 / 7.96	48	3.10	330
7R8	7.8	J,K	15	7.96 / 7.96	40	3.35	320
8R2	8.2	J,K	15	7.96 / 7.96	38	3.50	300
100	10	J,K	15	7.96 / 7.96	32	4.46	250

■ Notes

1. Tolerance: J ($\pm 5\%$), K ($\pm 10\%$)
2. L, Q, SRF : Agilent/HP E4991A+ Agilent/HP16197A
(The electrical specification test by the smallest gap position) or HP16193A
3. Rdc : DIGITAL MILLIOHM METER Chroma 16502, or equivalent.
4. Idc for Inductance drop 10% from its value without current.