

■ Features:

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

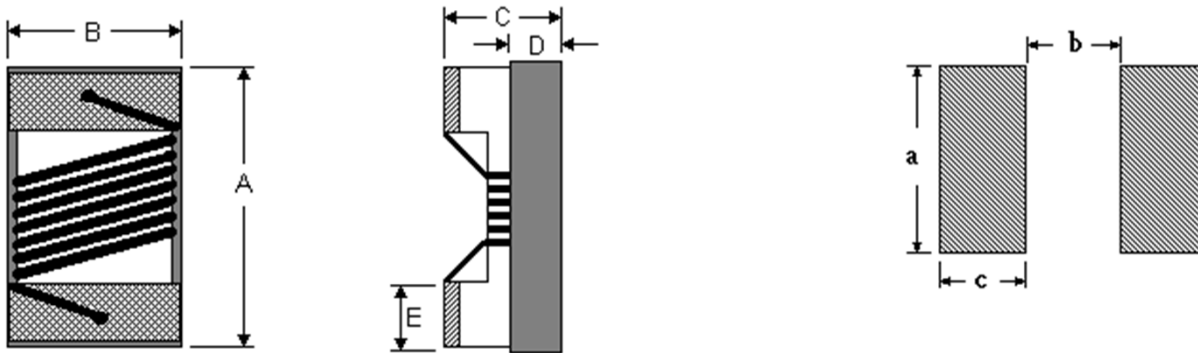
■ Applications:

- 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 1210				
			Q	Test Frequency	SRF	DC Resistance	Rated Current
Code	uH	Tolerance	(Min)	(L, Q) MHz	(MHz) Min	(Ω) Max	(mA) Max
R39	0.39	J	40	25.2 / 25.2	500	0.09	3000
R56	0.56	K	40	25.2 / 25.2	500	0.10	3000
1R0	1.0	J,K	35	7.96 / 7.96	340	0.125	2600
1R2	1.2	K	35	7.96 / 7.96	280	0.135	2400
1R5	1.5	J,K	30	7.96 / 7.96	160	0.145	2200
1R8	1.8	J,K	30	7.96 / 7.96	120	0.16	2000
2R2	2.2	J,K	30	7.96 / 7.96	100	0.17	1800
2R5	2.5	J,K	30	7.96 / 7.96	80	0.19	1700
3R3	3.3	J,K	30	7.96 / 7.96	70	0.21	1500
4R7	4.7	J,K	28	7.96 / 7.96	55	0.30	1300
6R8	6.8	J,K	28	7.96 / 7.96	45	0.37	1000
8R2	8.2	J,K	28	7.96 / 7.96	45	0.47	940
100	10	J,K	22	2.52 / 2.52	47	0.50	900
120	12	J,K	22	2.52 / 2.52	42	0.68	770
150	15	J,K	22	2.52 / 2.52	34	0.72	740
180	18	J,K	22	2.52 / 2.52	28	0.95	630
220	22	J,K	22	2.52 / 2.52	25	1.10	600
270	27	J,K	20	2.52 / 2.52	18	1.25	520
330	33	J,K	20	2.52 / 2.52	13	1.37	490
470	47	J,K	22	2.52 / 2.52	12	1.88	400
560	56	J,K	22	2.52 / 2.52	10	2.75	360
680	68	J,K	22	2.52 / 2.52	10.0	3.00	340
820	82	J,K	22	2.52 / 2.52	10.0	4.10	300
101	100	J,K	15	1.0 / 1.0	8.0	4.68	270
121	120	J,K	15	1.0 / 1.0	7.0	5.80	220
151	150	J,K	15	1.0 / 1.0	7.0	6.10	220
181	180	J,K	13	1.0 / 1.0	3.0	7.10	200
221	220	J,K	13	1.0 / 1.0	3.0	7.65	180
331	330	J,K	13	1.0 / 1.0	3.0	12.62	160
471	470	J,K	13	1.0 / 1.0	3.0	25.0	120
561	560	J,K	13	1.0 / 1.0	2.0	27.0	100
681	680	J,K	13	1.0 / 1.0	2.0	31.0	100
821	820	J,K	10	1.0 / 1.0	2.0	42.0	50
102	1000	J,K	10	1.0 / 1.0	2.0	46.0	50

## ■ 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.