

■ Features:

- Utilizing a miniaturized winding structure
- These products provide high Q characteristics
- Resin-coated surface enables excellent mounting
- Low DC resistance design is ideal for low loss,
- Precision inductance tolerance is available

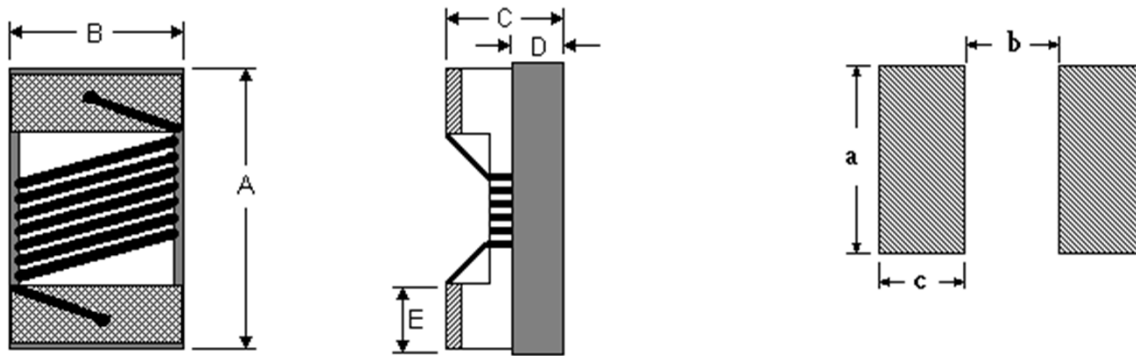
■ Applications:

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

■ Parts code:

NLF 0805 — 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
NLF 0805	2.40 max	1.65 max	1.30 max	0.65 ref	0.44	1.78	0.76	1.00
NLF 1008	2.90 max	2.54 max	2.10 max	1.3 ref	0.5±0.1	2.54	1.27	1.00
NLF 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	NLF 0805	NLF 1008	NLF 1210
Q'TY / Reel	2000	2000	2000

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

Specifications

Inductance			NLF 1210				
			Q	Test Frequency	SRF	DC Resistance	Rated Current
Code	uH	Tolerance	(Min)	(L, Q) MHz	(MHz) Min	(Ω) Max	(mA) Max
R12	0.12	K	40	25.2 / 25.2	1000	0.07	2000
R22	0.22	J,K	40	25.2 / 25.2	600	0.18	1700
R27	0.27	J,K	40	25.2 / 25.2	600	0.23	1600
R33	0.33	J,K	40	25.2 / 25.2	500	0.27	1500
R39	0.39	J,K	40	25.2 / 25.2	500	0.30	1500
R82	0.82	J,K	35	25.2 / 25.2	340	0.38	1300
1R0	1.0	J,K	35	7.96 / 7.96	320	0.42	1200
1R2	1.2	J,K	35	7.96 / 7.96	280	0.47	1100
1R5	1.5	J,K	35	7.96 / 7.96	250	0.50	1100
1R8	1.8	J,K	40	7.96 / 7.96	203	0.62	1000
2R2	2.2	J,K	33	7.96 / 7.96	200	0.65	1000
2R7	2.7	J,K	40	7.96 / 7.96	200	0.65	1000
3R0	3.0	J,K	40	7.96 / 7.96	180	0.78	800
3R3	3.3	J,K	30	7.96 / 7.96	146	0.83	1200
3R9	3.9	J,K	30	7.96 / 7.96	139	1.74	900
4R7	4.7	J,K	35	7.96 / 7.96	124	1.90	800
5R6	5.6	J,K	30	7.96 / 7.96	114	2.05	700
6R8	6.8	J,K	30	7.96 / 7.96	109	1.37	450
100	10	J,K	23	2.52 / 2.52	90	1.70	590
150	15	J,K	25	2.52 / 2.52	67	2.22	340
180	18	J,K	25	2.52 / 2.52	57	2.42	330
220	22	J,K	25	2.52 / 2.52	48	2.66	300
270	27	J,K	25	2.52 / 2.52	38	2.99	250
330	33	J,K	25	2.52 / 2.52	26	3.24	220
390	39	J,K	25	2.52 / 2.52	24	3.61	195
470	47	J,K	25	2.52 / 2.52	22	3.96	195
560	56	J,K	25	2.52 / 2.52	20	4.36	190
680	68	J,K	23	2.52 / 2.52	15	4.50	340
820	82	J,K	23	2.52 / 2.52	15	5.95	280
101	100	J,K	15	1.0 / 1.0	14	6.62	250
121	120	J,K	15	1.0 / 1.0	11	7.53	190
151	150	J,K	15	1.0 / 1.0	11	8.29	135
181	180	J,K	15	1.0 / 1.0	10	11.53	100
221	220	J,K	15	1.0 / 1.0	8	12.48	80

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.