NLI Radial Power Inductors

NLI__C Series

FEATURES

- RADIAL LEADED POWER INDUCTOR
- WIRE WOUND CONSTRUCTION
- WIDE VALUE RANGE 1.0µH ~ 150,000µH
- AVAILABLE WITH HIGH TEMPERATURE SLEEVE
- NINE CASE SIZES (5.5X8mm ~ 14X16mm)

RoHS Compliant
includes all homogeneous materials

*See Part Number System for Details



CHARACTERISTICS

Case Code	NLI46C	NLI68C	NLI77C	NLI87C
Inductance Range	1.0µH ~ 25,000µH	3.3µH ~ 150,000µH	1.0µH ~ 1,500µH	2.2µH ~ 1,500µH

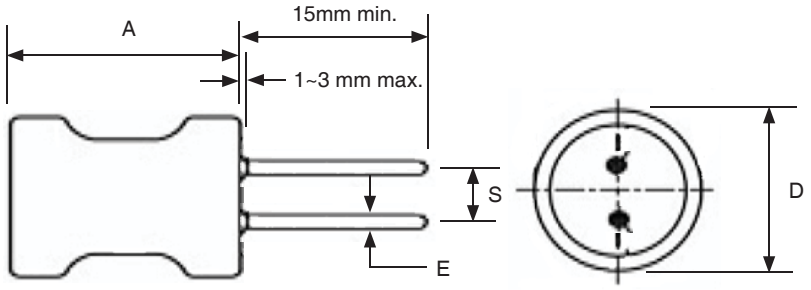
Case Code	NLI81C	NLI100C	NLI102C	NLI108C	NLI123C
Inductance Range (µH)	3.3µH ~ 100,000µH	3.3µH ~ 15,000µH	10,000µH ~ 100,000µH	4.7µH ~ 100,000µH	10µH ~ 10,000µH

Ambient Operating Temperature Range	-20°C ~ +85°C
Maximum Component Temperature (Ambient + Self-Heating)	+105°C
Temperature Rise at Irms	+20°C
Inductance Change at Isat	-10%
Inductance Tolerance	J (±5%), K (±10%), M (±20%)

DIMENSIONS (mm)

Series	A max.	S (Bulk)	S (Tape & Box)	D max.	E ± 0.05
NLI46C	8.0	2.0 ± 0.5	5.0 ± 1.0*	5.5	0.55
NLI68C	11.0	2.5 ± 0.5	5.0 ± 1.0*	7.5	0.65
NLI77C	9.5	5.0 ± 1.0	n/a	8.5	0.65
NLI87C	9.5	5.0 ± 1.0	5.0 ± 1.0	10.0	0.65
NLI81C	13.0	5.0 ± 1.0	5.0 ± 1.0	10.0	0.65
NLI100C	13.0	5.0 ± 1.0	5.0 ± 1.0	12.0	0.80
NLI102C	15.0	6.0 ± 1.0	5.0 ± 1.0*	12.0	0.80
NLI108C	21.0	6.0 ± 1.0	n/a	12.0	0.80
NLI123C	16.0	7.5 ± 1.0	n/a	14.0	0.80

*These parts on tape & box packaging have crimped leads.



PART NUMBER SYSTEM

NLI 46 C 4R7 K U TB F

- F — RoHS Compliant
- TB = Optional Packaging Tape & Box (blank for bulk packaging)
- U = Optional Black UL +125°C Sleeving (blank for no sleeving)
- K — Inductance Tolerance Code: J = ±5%, K = ±10%, M = ±20%
- 4R7 — Inductance Code (µH): 1st two digits are significant, 3rd digit is multiplier for values from 10µH and up.
- C — Construction Code (see drawing for details)
- 46 — Size Code (see table for details)
- NLI — Series

NPI46C STANDARD VALUES (H = 8.0mm x D = 5.5mm)							
Part Number	Inductance (µH)	Inductance Tolerance*	Q min.	Q Freq.	SRF (MHz) min.	DCR (Ω) max.	DC I (mA)
NLI46C1R0M_ _ _F	1.0	±20%	100	7.96MHz	120	0.035	2000
NLI46C1R2M_ _ _F	1.2	±20%	100	7.96MHz	120	0.058	1950
NLI46C1R5M_ _ _F	1.5	±20%	100	7.96MHz	120	0.075	1900
NLI46C1R8M_ _ _F	1.8	±20%	100	7.96MHz	120	0.110	1800
NLI46C2R2M_ _ _F	2.2	±20%	100	7.96MHz	100	0.120	1750
NLI46C2R7M_ _ _F	2.7	±20%	100	7.96MHz	80	0.125	1680
NLI46C3R3M_ _ _F	3.3	±20%	100	7.96MHz	75	0.130	1500
NLI46C3R9K_ _ _F	3.9	±10%	100	7.96MHz	70	0.135	1450
NLI46C4R7K_ _ _F	4.7	±10%	100	7.96MHz	50	0.140	1320
NLI46C5R6K_ _ _F	5.6	±10%	100	7.96MHz	45	0.145	1230
NLI46C6R8K_ _ _F	6.8	±10%	100	7.96MHz	30	0.150	1150
NLI46C8R2K_ _ _F	8.2	±10%	100	7.96MHz	22	0.160	1100
NLI46C100K_ _ _F	10	±10%	80	2.52MHz	20	0.230	1000
NLI46C120K_ _ _F	12	±10%	80	2.52MHz	17	0.240	970
NLI46C150K_ _ _F	15	±10%	80	2.52MHz	16	0.250	920
NLI46C180K_ _ _F	18	±10%	80	2.52MHz	12	0.330	860
NLI46C220K_ _ _F	22	±10%	80	2.52MHz	10	0.450	800
NLI46C270K_ _ _F	27	±10%	80	2.52MHz	9.5	0.50	710
NLI46C330K_ _ _F	33	±10%	80	2.52MHz	8.7	0.70	660
NLI46C390K_ _ _F	39	±10%	70	2.52MHz	8.2	0.74	600
NLI46C470K_ _ _F	47	±10%	70	2.52MHz	7.8	0.76	550
NLI46C560K_ _ _F	56	±10%	50	2.52MHz	7.6	0.80	500
NLI46C680K_ _ _F	68	±10%	50	2.52MHz	6.8	0.90	470
NLI46C820K_ _ _F	82	±10%	50	2.52MHz	6.0	0.95	430
NLI46C101K_ _ _F	100	±10%	45	796KHz	6.0	1.0	400
NLI46C121K_ _ _F	120	±10%	45	796KHz	5.5	1.1	370
NLI46C151K_ _ _F	150	±10%	65	796KHz	4.2	1.3	350
NLI46C181K_ _ _F	180	±10%	65	796KHz	3.6	1.5	320
NLI46C221K_ _ _F	220	±10%	65	796KHz	2.8	1.8	300
NLI46C271K_ _ _F	270	±10%	50	796KHz	2.4	1.9	275
NLI46C331K_ _ _F	330	±10%	50	796KHz	2.2	2.2	250
NLI46C391K_ _ _F	390	±10%	50	796KHz	2.0	2.7	220
NLI46C471K_ _ _F	470	±10%	50	796KHz	1.7	3.6	200
NLI46C561K_ _ _F	560	±10%	50	796KHz	1.5	4.2	190
NLI46C681K_ _ _F	680	±10%	50	796KHz	1.3	4.6	170
NLI46C821K_ _ _F	820	±10%	50	796KHz	1.1	5.7	155
NLI46C102K_ _ _F	1,000	±10%	90	252KHz	1.0	6.7	150
NLI46C122K_ _ _F	1,200	±10%	90	252KHz	0.9	8.2	140
NLI46C152K_ _ _F	1,500	±10%	80	252KHz	0.8	13	120
NLI46C182K_ _ _F	1,800	±10%	80	252KHz	0.8	15	110
NLI46C222K_ _ _F	2,200	±10%	80	252KHz	0.8	17	100
NLI46C272K_ _ _F	2,700	±10%	80	252KHz	0.8	19	90
NLI46C332K_ _ _F	3,300	±10%	70	252KHz	0.7	26	83
NLI46C392K_ _ _F	3,900	±10%	70	252KHz	0.65	30	76

DC I maximum +20°C temperature rise, ΔL -10% max.

* Contact NIC for other tolerance options.

NPI46C STANDARD VALUES (H = 8.0mm x D = 5.5mm)						
Part Number	Inductance (μH)	Inductance Tolerance*	Q min.	Q Freq.	DCR (Ω) max.	DC I (mA)
NLI46C472K_ _ _F	4,700	±10%	65	252KHz	45	70
NLI46C562K_ _ _F	5,600	±10%	65	252KHz	48	62
NLI46C682K_ _ _F	6,800	±10%	65	252KHz	56	56
NLI46C822K_ _ _F	8,200	±10%	65	252KHz	62	52
NLI46C103K_ _ _F	10,000	±10%	45	79.6KHz	72	47
NLI46C153K_ _ _F	15,000	±10%	45	79.6KHz	120	35
NLI46C223K_ _ _F	22,000	±10%	45	79.6KHz	160	24
NLI46C253K_ _ _F	25,000	±10%	45	79.6KHz	180	20

DC I maximum +20°C temperature rise, ΔL -10% max.
* Contact NIC for other tolerance options.

NPI68C STANDARD VALUES (H = 11.0mm x D = 7.5mm)						
Part Number	Inductance (µH)	Inductance Tolerance*	Q min.	Q Freq.	DCR (Ω) max.	DC I (mA)
NLI68C3R3K_ _ _F	3.3	±10%	20	7.96MHz	0.016	3500
NLI68C4R7K_ _ _F	4.7	±10%	20	7.96MHz	0.020	3000
NLI68C6R8K_ _ _F	6.8	±10%	20	7.96MHz	0.022	2500
NLI68C100K_ _ _F	10	±10%	30	2.52MHz	0.039	2000
NLI68C150K_ _ _F	15	±10%	30	2.52MHz	0.045	1700
NLI68C220K_ _ _F	22	±10%	30	2.52MHz	0.062	1400
NLI68C330K_ _ _F	33	±10%	30	2.52MHz	0.10	1100
NLI68C470K_ _ _F	47	±10%	30	2.52MHz	0.15	950
NLI68C680K_ _ _F	68	±10%	30	2.52MHz	0.22	800
NLI68C101K_ _ _F	100	±10%	20	796KHz	0.35	650
NLI68C151K_ _ _F	150	±10%	20	796KHz	0.43	540
NLI68C221K_ _ _F	220	±10%	20	796KHz	0.90	440
NLI68C331K_ _ _F	330	±10%	20	796KHz	1.5	360
NLI68C471K_ _ _F	470	±10%	20	796KHz	1.8	300
NLI68C681K_ _ _F	680	±10%	20	796KHz	2.5	250
NLI68C102K_ _ _F	1,000	±10%	100	252KHz	3.2	200
NLI68C122K_ _ _F	1,200	±10%	70	252KHz	3.5	180
NLI68C152K_ _ _F	1,500	±10%	70	252KHz	4.5	170
NLI68C182K_ _ _F	1,800	±10%	70	252KHz	5.0	155
NLI68C222K_ _ _F	2,200	±10%	70	252KHz	6.8	140
NLI68C272K_ _ _F	2,700	±10%	70	252KHz	7.2	125
NLI68C332K_ _ _F	3,300	±10%	70	252KHz	10.5	115
NLI68C392K_ _ _F	3,900	±10%	70	252KHz	11.7	105
NLI68C472K_ _ _F	4,700	±10%	70	252KHz	13.6	95
NLI68C562K_ _ _F	5,600	±10%	70	252KHz	16.6	85
NLI68C682K_ _ _F	6,800	±10%	70	252KHz	19.6	80
NLI68C822K_ _ _F	8,200	±10%	70	252KHz	25.2	70
NLI68C103K_ _ _F	10,000	±10%	70	79.6KHz	29.5	65
NLI68C123K_ _ _F	12,000	±10%	50	79.6KHz	33.8	60
NLI68C153K_ _ _F	15,000	±10%	50	79.6KHz	45.4	55
NLI68C183K_ _ _F	18,000	±10%	50	79.6KHz	50.4	50
NLI68C223K_ _ _F	22,000	±10%	50	79.6KHz	80.0	45
NLI68C303K_ _ _F	30,000	±10%	50	79.6KHz	91.5	40
NLI68C333K_ _ _F	33,000	±10%	50	79.6KHz	98.5	35
NLI68C393K_ _ _F	39,000	±10%	50	79.6KHz	140	32
NLI68C473K_ _ _F	47,000	±10%	50	79.6KHz	160	30
NLI68C503K_ _ _F	50,000	±10%	50	79.6KHz	170	29
NLI68C563K_ _ _F	56,000	±10%	50	79.6KHz	250	28
NLI68C683K_ _ _F	68,000	±10%	50	79.6KHz	282	25
NLI68C823K_ _ _F	82,000	±10%	50	79.6KHz	312	23
NLI68C104K_ _ _F	100,000	±10%	30	25.2KHz	380	20
NLI68C124K_ _ _F	120,000	±10%	30	25.2KHz	430	18
NLI68C154K_ _ _F	150,000	±10%	30	25.2KHz	520	16

DC I maximum +20°C temperature rise, ΔL -10% max.

* Contact NIC for other tolerance options.

NPI77C STANDARD VALUES (H = 9.5mm x D = 8.5mm)								
Part Number	Inductance (µH)	Inductance Tolerance*	Q min.	Q Freq.	SRF (MHz) min.	DCR (Ω) max.	I sat (A)	Irms (A)
NLI77C1R0M_ _ _F	1.0	±20%	10	7.96MHz	70	0.006	6.6	5.0
NLI77C1R5M_ _ _F	1.5	±20%	10	7.96MHz	56	0.008	5.4	4.3
NLI77C2R2M_ _ _F	2.2	±20%	10	7.96MHz	45	0.011	4.0	3.7
NLI77C3R3M_ _ _F	3.3	±20%	10	7.96MHz	36	0.018	3.6	2.9
NLI77C4R7M_ _ _F	4.7	±20%	10	7.96MHz	29	0.022	3.1	2.6
NLI77C6R8M_ _ _F	6.8	±20%	10	7.96MHz	24	0.028	2.5	2.3
NLI77C100K_ _ _F	10	±10%	20	2.52MHz	19	0.043	2.1	1.9
NLI77C150K_ _ _F	15	±10%	20	2.52MHz	15	0.056	1.7	1.6
NLI77C220K_ _ _F	22	±10%	20	2.52MHz	12	0.086	1.4	1.3
NLI77C330K_ _ _F	33	±10%	20	2.52MHz	9.4	0.14	1.1	1.0
NLI77C470K_ _ _F	47	±10%	20	2.52MHz	7.6	0.17	0.96	0.94
NLI77C680K_ _ _F	68	±10%	20	2.52MHz	6.2	0.28	0.79	0.73
NLI77C101K_ _ _F	100	±10%	20	796KHz	5.0	0.33	0.66	0.67
NLI77C151K_ _ _F	150	±10%	20	796KHz	4.0	0.56	0.53	0.52
NLI77C221K_ _ _F	220	±10%	20	796KHz	3.2	0.72	0.44	0.46
NLI77C331K_ _ _F	330	±10%	20	796KHz	2.5	1.1	0.36	0.37
NLI77C471K_ _ _F	470	±10%	20	796KHz	2.0	1.7	0.30	0.30
NLI77C681K_ _ _F	680	±10%	20	796KHz	1.7	2.3	0.25	0.26
NLI77C102K_ _ _F	1,000	±10%	70	252KHz	1.3	4.3	0.20	0.19
NLI77C152K_ _ _F	1,500	±10%	50	252KHz	1.3	5	0.17	0.16

Irm maximum +20°C temperature rise, Isat ΔL -10% max.
* Contact NIC for other tolerance options.

NPI87C STANDARD VALUES (H = 9.5mm x D = 10mm)								
Part Number	Inductance (µH)	Inductance Tolerance*	Q min.	Q Freq.	SRF (MHz) min.	DCR (Ω) max.	I sat (A)	Irms (A)
NLI87C2R2M_ _ _F	2.2	±20%	10	7.96MHz	60	0.011	5.5	4.0
NLI87C3R3M_ _ _F	3.3	±20%	10	7.96MHz	38	0.013	3.8	3.4
NLI87C4R7M_ _ _F	4.7	±20%	10	7.96MHz	30	0.017	3.7	3.0
NLI87C6R8M_ _ _F	6.8	±20%	10	7.96MHz	24	0.023	2.8	2.6
NLI87C100K_ _ _F	10	±10%	20	2.52MHz	19	0.031	2.5	2.2
NLI87C150K_ _ _F	15	±10%	20	2.52MHz	15	0.042	2.0	1.9
NLI87C220K_ _ _F	22	±10%	20	2.52MHz	12	0.070	1.6	1.5
NLI87C330K_ _ _F	33	±10%	20	2.52MHz	10	0.092	1.3	1.2
NLI87C470K_ _ _F	47	±10%	20	2.52MHz	8.2	0.13	1.1	1.0
NLI87C680K_ _ _F	68	±10%	20	2.52MHz	6.6	0.16	0.91	0.97
NLI87C101K_ _ _F	100	±10%	15	796KHz	5.4	0.23	0.75	0.81
NLI87C151K_ _ _F	150	±10%	15	796KHz	4.3	0.40	0.61	0.61
NLI87C221K_ _ _F	220	±10%	15	796KHz	3.5	0.53	0.50	0.53
NLI87C331K_ _ _F	330	±10%	15	796KHz	2.8	0.78	0.41	0.44
NLI87C471K_ _ _F	470	±10%	10	796KHz	2.3	1.0	0.34	0.39
NLI87C681K_ _ _F	680	±10%	10	796KHz	1.9	1.5	0.28	0.32
NLI87C102K_ _ _F	1,000	±10%	20	252KHz	1.5	2.2	0.23	0.26
NLI87C152K_ _ _F	1,500	±10%	30	252KHz	1.2	3.5	0.18	0.21

Irm maximum +20°C temperature rise, Isat ΔL -10% max.
* Contact NIC for other tolerance options.

NPI81C STANDARD VALUES (H = 13mm x D = 10mm)							
Part Number	Inductance (µH)	Inductance Tolerance*	Q min.	Q Freq.	SRF (MHz) min.	DCR (Ω) max.	DC I (mA)
NLI81C3R3M_ _ _F	3.3	±20%	30	7.96MHz	65	0.012	5000
NLI81C3R9K_ _ _F	3.9	±10%	30	7.96MHz	55	0.014	4600
NLI81C4R7K_ _ _F	4.7	±10%	30	7.96MHz	45	0.016	4300
NLI81C5R6K_ _ _F	5.6	±10%	30	7.96MHz	38	0.02	3900
NLI81C6R8K_ _ _F	6.8	±10%	30	7.96MHz	27	0.022	3700
NLI81C8R2K_ _ _F	8.2	±10%	30	7.96MHz	21	0.024	3500
NLI81C100K_ _ _F	10	±10%	50	2.52MHz	17	0.025	3200
NLI81C120K_ _ _F	12	±10%	50	2.52MHz	15	0.027	3000
NLI81C150K_ _ _F	15	±10%	50	2.52MHz	13	0.033	2800
NLI81C180K_ _ _F	18	±10%	50	2.52MHz	12	0.039	2600
NLI81C220K_ _ _F	22	±10%	50	2.52MHz	11	0.047	2400
NLI81C270K_ _ _F	27	±10%	50	2.52MHz	10	0.052	2100
NLI81C330K_ _ _F	33	±10%	50	2.52MHz	8.5	0.075	1900
NLI81C390K_ _ _F	39	±10%	40	2.52MHz	7.7	0.082	1700
NLI81C470K_ _ _F	47	±10%	40	2.52MHz	6.7	0.10	1500
NLI81C560K_ _ _F	56	±10%	40	2.52MHz	6.4	0.15	1300
NLI81C680K_ _ _F	68	±10%	30	2.52MHz	5.8	0.18	1200
NLI81C820K_ _ _F	82	±10%	30	2.52MHz	5.2	0.20	1100
NLI81C101K_ _ _F	100	±10%	30	796KHz	4.4	0.20	900
NLI81C121K_ _ _F	120	±10%	30	796KHz	4.2	0.22	800
NLI81C151K_ _ _F	150	±10%	30	796KHz	3.7	0.24	720
NLI81C181K_ _ _F	180	±10%	30	796KHz	3.5	0.28	650
NLI81C221K_ _ _F	220	±10%	20	796KHz	3.3	0.35	600
NLI81C271K_ _ _F	270	±10%	20	796KHz	2.9	0.40	550
NLI81C331K_ _ _F	330	±10%	20	796KHz	2.6	0.47	500
NLI81C391K_ _ _F	390	±10%	20	796KHz	2.4	0.68	460
NLI81C471K_ _ _F	470	±10%	20	796KHz	2.2	0.8	420
NLI81C561K_ _ _F	560	±10%	20	796KHz	2.0	1.0	380
NLI81C681K_ _ _F	680	±10%	20	796KHz	1.8	1.2	350
NLI81C821K_ _ _F	820	±10%	20	796KHz	1.7	1.5	310
NLI81C102K_ _ _F	1,000	±10%	40	252KHz	1.5	1.8	280
NLI81C122K_ _ _F	1,200	±10%	40	252KHz	1.4	2.0	250
NLI81C152K_ _ _F	1,500	±10%	40	252KHz	1.3	2.4	230
NLI81C182K_ _ _F	1,800	±10%	40	252KHz	1.1	2.8	210
NLI81C222K_ _ _F	2,200	±10%	40	252KHz	1.0	3.3	190
NLI81C272K_ _ _F	2,700	±10%	40	252KHz	0.88	5.0	170
NLI81C332K_ _ _F	3,300	±10%	40	252KHz	0.78	5.6	150
NLI81C392K_ _ _F	3,900	±10%	40	252KHz	0.72	6.2	140
NLI81C472K_ _ _F	4,700	±10%	40	252KHz	0.65	7.0	130
NLI81C562K_ _ _F	5,600	±10%	40	252KHz	0.58	9.1	120
NLI81C682K_ _ _F	6,800	±10%	40	252KHz	0.55	10	110
NLI81C822K_ _ _F	8,200	±10%	20	252KHz	0.50	15	100
NLI81C103K_ _ _F	10,000	±10%	20	79.6KHz	0.42	24	90
NLI81C473K_ _ _F	47,000	±10%	60	79.6KHz	0.20	80	40
NLI81C104K_ _ _F	100,000	±10%	20	79.6KHz	0.14	180	28

DC I maximum +20°C temperature rise, ΔL -10% max.

* Contact NIC for other tolerance options.

NPI100C STANDARD VALUES (H = 13mm x D = 12mm)								
Part Number	Inductance (µH)	Inductance Tolerance*	Q min.	Q Freq.	SRF (MHz) min.	DCR (Ω) max.	I sat (A)	Irms (A)
NLI100C3R3M_ _ _F	3.3	±20%	10	7.96MHz	36	0.01	8.8	5.9
NLI100C4R7M_ _ _F	4.7	±20%	10	7.96MHz	28	0.015	7.2	4.8
NLI100C6R8M_ _ _F	6.8	±20%	10	7.96MHz	18	0.016	6.1	4.6
NLI100C100M_ _ _F	10	±20%	20	2.52MHz	16	0.025	5.0	3.7
NLI100C150M_ _ _F	15	±20%	20	2.52MHz	12	0.029	4.2	3.4
NLI100C220K_ _ _F	22	±10%	20	2.52MHz	9.5	0.04	3.4	2.9
NLI100C330K_ _ _F	33	±10%	30	2.52MHz	7.0	0.062	2.8	2.3
NLI100C470K_ _ _F	47	±10%	30	2.52MHz	5.8	0.075	2.3	2.1
NLI100C680K_ _ _F	68	±10%	20	2.52MHz	4.7	0.13	1.9	1.6
NLI100C101K_ _ _F	100	±10%	20	796KHz	3.8	0.16	1.6	1.4
NLI100C151K_ _ _F	150	±10%	20	796KHz	3.1	0.26	1.3	1.1
NLI100C221K_ _ _F	220	±10%	20	796KHz	2.5	0.33	1.1	1.0
NLI100C331K_ _ _F	330	±10%	20	796KHz	2.0	0.52	0.88	0.82
NLI100C471K_ _ _F	470	±10%	10	796KHz	1.6	0.66	0.75	0.72
NLI100C681K_ _ _F	680	±10%	10	796KHz	1.3	1.1	0.61	0.56
NLI100C102K_ _ _F	1,000	±10%	20	252KHz	1.1	1.4	0.51	0.50
NLI100C152K_ _ _F	1,500	±10%	30	252KHz	0.82	2.4	0.43	0.38
NLI100C222K_ _ _F	2,200	±10%	20	252KHz	0.76	3.2	0.35	0.33
NLI100C332K_ _ _F	3,300	±10%	30	252KHz	0.64	4.9	0.28	0.26
NLI100C472K_ _ _F	4,700	±10%	30	252KHz	0.54	7.6	0.24	0.21
NLI100C682K_ _ _F	6,800	±10%	30	252KHz	0.45	9.8	0.20	0.18
NLI100C103K_ _ _F	10,000	±10%	30	79.6KHz	0.38	18	0.17	0.14
NLI100C153K_ _ _F	15,000	±10%	50	79.6KHz	0.29	24	0.13	0.12

Irm maximum +20°C temperature rise, Isat ΔL -10% max.
* Contact NIC for other tolerance options.

NPI102C STANDARD VALUES (H = 15mm x D = 12mm)								
Part Number	Inductance (µH)	Inductance Tolerance*	Q min.	Q Freq.	SRF (MHz) min.	DCR (Ω) max.	I sat (A)	Irms (A)
NLI102C103K_ _ _F	10,000	±10%	100	79.6KHz	0.35	12	0.18	0.17
NLI102C123K_ _ _F	12,000	±10%	100	79.6KHz	0.31	13	0.16	0.16
NLI102C153K_ _ _F	15,000	±10%	100	79.6KHz	0.28	18	0.14	0.14
NLI102C183K_ _ _F	18,000	±10%	80	79.6KHz	0.26	25	0.13	0.12
NLI102C223K_ _ _F	22,000	±10%	80	79.6KHz	0.22	30	0.12	0.11
NLI102C273K_ _ _F	27,000	±10%	80	79.6KHz	0.20	35	0.11	0.10
NLI102C333K_ _ _F	33,000	±10%	60	79.6KHz	0.19	40	0.10	0.09
NLI102C393K_ _ _F	39,000	±10%	60	79.6KHz	0.17	50	0.09	0.08
NLI102C473K_ _ _F	47,000	±10%	60	79.6KHz	0.15	50	0.080	0.075
NLI102C563K_ _ _F	56,000	±10%	40	79.6KHz	0.13	65	0.075	0.070
NLI102C683K_ _ _F	68,000	±10%	40	79.6KHz	0.12	70	0.070	0.065
NLI102C823K_ _ _F	82,000	±10%	30	79.6KHz	0.10	100	0.060	0.055
NLI102C104K_ _ _F	100,000	±10%	30	79.6KHz	0.10	135	0.055	0.045

Irm maximum +20°C temperature rise, Isat ΔL -10% max.
* Contact NIC for other tolerance options.

NPI108C STANDARD VALUES (H = 21mm x D = 12mm)					
Part Number	Inductance (μH)	Indutance Tolerance*	DCR (Ω) max.	I sat (A)	Irms (A)
NLI108C4R7K_ _ _F	4.7	±10%	0.008	10	6.0
NLI108C6R8K_ _ _F	6.8	±10%	0.011	8.0	5.5
NLI108C100K_ _ _F	10	±10%	0.017	7.0	4.5
NLI108C150K_ _ _F	15	±10%	0.022	5.5	4.0
NLI108C220K_ _ _F	22	±10%	0.026	4.5	3.7
NLI108C330K_ _ _F	33	±10%	0.032	3.8	3.3
NLI108C470K_ _ _F	47	±10%	0.035	3.2	3.0
NLI108C680K_ _ _F	68	±10%	0.047	2.6	2.6
NLI108C101K_ _ _F	100	±10%	0.090	2.2	2.0
NLI108C151K_ _ _F	150	±10%	0.129	1.8	1.6
NLI108C221K_ _ _F	220	±10%	0.162	1.5	1.5
NLI108C331K_ _ _F	330	±10%	0.212	1.2	1.2
NLI108C471K_ _ _F	470	±10%	0.380	1.0	1.0
NLI108C681K_ _ _F	680	±10%	0.548	0.84	0.84
NLI108C102K_ _ _F	1,000	±10%	0.844	0.66	0.66
NLI108C152K_ _ _F	1,500	±10%	1.18	0.55	0.55
NLI108C222K_ _ _F	2,200	±10%	2.00	0.46	0.44
NLI108C332K_ _ _F	3,300	±10%	2.53	0.38	0.38
NLI108C472K_ _ _F	4,700	±10%	3.19	0.32	0.32
NLI108C682K_ _ _F	6,800	±10%	5.69	0.26	0.25
NLI108C103K_ _ _F	10,000	±10%	7.30	0.22	0.22
NLI108C153K_ _ _F	15,000	±10%	10.5	0.18	0.18
NLI108C223K_ _ _F	22,000	±10%	21.8	0.14	0.13
NLI108C333K_ _ _F	33,000	±10%	25.7	0.12	0.12
NLI108C473K_ _ _F	47,000	±10%	36.1	0.10	0.10
NLI108C683K_ _ _F	68,000	±10%	57.3	0.08	0.08
NLI108C104K_ _ _F	100,000	±10%	89 .7	0.06	0.06

Irm maximum +20°C temperature rise, Isat ΔL -10% max.

* Contact NIC for other tolerance options.

NPI123C STANDARD VALUES (H = 16mm x D = 14mm)					
Part Number	Inductance (μH)	Inductance Tolerance*	DCR (Ω) max.	I sat (A)	Irms (A)
NLI123C100M_ _ _F	10	±10%	0.023	8.0	5.1
NLI123C150K_ _ _F	15	±10%	0.028	6.5	4.5
NLI123C220K_ _ _F	22	±10%	0.035	5.5	4.2
NLI123C330K_ _ _F	33	±10%	0.043	4.5	3.7
NLI123C470K_ _ _F	47	±10%	0.052	3.6	3.4
NLI123C680K_ _ _F	68	±10%	0.068	3.1	3
NLI123C101K_ _ _F	100	±10%	0.097	2.6	2.5
NLI123C151K_ _ _F	150	±10%	0.14	2.1	2.1
NLI123C221K_ _ _F	220	±10%	0.20	1.7	1.7
NLI123C331K_ _ _F	330	±10%	0.30	1.4	1.4
NLI123C471K_ _ _F	470	±10%	0.43	1.1	1.1
NLI123C681K_ _ _F	680	±10%	0.61	0.95	0.99
NLI123C102K_ _ _F	1000	±10%	1.0	0.78	0.78
NLI123C152K_ _ _F	1500	±10%	1.3	0.64	0.68
NLI123C222K_ _ _F	2200	±10%	2.0	0.53	0.55
NLI123C332K_ _ _F	3300	±10%	3.1	0.43	0.44
NLI123C472K_ _ _F	4700	±10%	4.4	0.36	0.37
NLI123C682K_ _ _F	6800	±10%	6.5	0.30	0.3
NLI123C103K_ _ _F	10000	±10%	10	0.24	0.24

Irm maximum +20°C temperature rise, Isat ΔL -10% max.

* Contact NIC for other tolerance options.

PACKAGING QUANTITIY

Series	Bulk (per bag)	Tape & Box (per box)
NLI46C	500	1,000
NLI68C	200	750
NLI77C	200	n/a
NLI87C	100	600
NLI81C	100	600
NLI100C	100	500
NLI102C	100	500
NLI108C	50	n/a
NLI123C	50	n/a

TAPING SPECIFICATIONS

P_1	P_2	H_1	H_2	W_1	W_2	W_3	D	S	t
12.7 ± 1.0	12.7 ± 0.3	32.5 max.	18.5 ± 1.0	$18.0^{+1.0}/_{-0.5}$	12.0 min.	9.0 ± 0.8	4.0 ± 0.3	5.0 ± 0.8	0.7 ± 0.3

