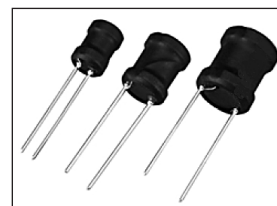


FEATURES

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

**RoHS
Compliant**
includes all homogeneous materials

*See Part Number System for Details



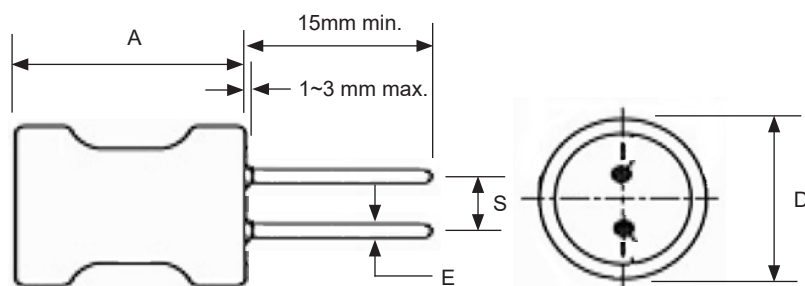
CHARACTERISTICS

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 $\pm$ 0.05
NLI46C	8.0	2.0 $\pm$ 0.5	5.0 $\pm$ 1.0*	5.5	0.55
NLI68C	11.0	2.5 $\pm$ 0.5	5.0 $\pm$ 1.0*	7.5	0.65
NLI77C	9.5	5.0 $\pm$ 1.0	5.0 $\pm$ 1.0	8.5	0.65
NLI87C	9.5	5.0 $\pm$ 1.0	5.0 $\pm$ 1.0	10.0	0.65
NLI81C	13.0	5.0 $\pm$ 1.0	5.0 $\pm$ 1.0	10.0	0.65
NLI100C	13.0	5.0 $\pm$ 1.0	5.0 $\pm$ 1.0	12.0	0.80
NLI102C	15.0	6.0 $\pm$ 1.0	5.0 $\pm$ 1.0*	12.0	0.80
NLI108C	21.0	6.0 $\pm$ 1.0	5.0 $\pm$ 1.0	12.0	0.80
NLI123C	16.0	7.5 $\pm$ 1.0	7.5 $\pm$ 1.0	14.0	0.80

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



PART NUMBER SYSTEM

NLI 46 C 4R7 K U TB E

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



NPI46C STANDARD VALUES (H = 8.0mm x D = 5.5mm)							
Part Number	Inductance (μ H) @ 1KHz	Inductance Tolerance*	Q min.	Q Freq.	SRF (MHz) min.	DCR (Ω) max.	DC I (mA)
NLI46C1R0M__F	1.0	$\pm 20\%$	100	7.96MHz	120	0.035	2000
NLI46C1R2M__F	1.2	$\pm 20\%$	100	7.96MHz	120	0.058	1950
NLI46C1R5M__F	1.5	$\pm 20\%$	100	7.96MHz	120	0.075	1900
NLI46C1R8M__F	1.8	$\pm 20\%$	100	7.96MHz	120	0.110	1800
NLI46C2R2M__F	2.2	$\pm 20\%$	100	7.96MHz	100	0.120	1750
NLI46C2R7M__F	2.7	$\pm 20\%$	100	7.96MHz	80	0.125	1680
NLI46C3R3M__F	3.3	$\pm 20\%$	100	7.96MHz	75	0.130	1500
NLI46C3R9K__F	3.9	$\pm 10\%$	100	7.96MHz	70	0.135	1450
NLI46C4R7K__F	4.7	$\pm 10\%$	100	7.96MHz	50	0.140	1320
NLI46C5R6K__F	5.6	$\pm 10\%$	100	7.96MHz	45	0.145	1230
NLI46C6R8K__F	6.8	$\pm 10\%$	100	7.96MHz	30	0.150	1150
NLI46C8R2K__F	8.2	$\pm 10\%$	100	7.96MHz	22	0.160	1100
NLI46C100K__F	10	$\pm 10\%$	80	2.52MHz	20	0.230	1000
NLI46C120K__F	12	$\pm 10\%$	80	2.52MHz	17	0.240	970
NLI46C150K__F	15	$\pm 10\%$	80	2.52MHz	16	0.250	920
NLI46C180K__F	18	$\pm 10\%$	80	2.52MHz	12	0.330	860
NLI46C220K__F	22	$\pm 10\%$	80	2.52MHz	10	0.450	800
NLI46C270K__F	27	$\pm 10\%$	80	2.52MHz	9.5	0.50	710
NLI46C330K__F	33	$\pm 10\%$	80	2.52MHz	8.7	0.70	660
NLI46C390K__F	39	$\pm 10\%$	70	2.52MHz	8.2	0.74	600
NLI46C470K__F	47	$\pm 10\%$	70	2.52MHz	7.8	0.76	550
NLI46C560K__F	56	$\pm 10\%$	50	2.52MHz	7.6	0.80	500
NLI46C680K__F	68	$\pm 10\%$	50	2.52MHz	6.8	0.90	470
NLI46C820K__F	82	$\pm 10\%$	50	2.52MHz	6.0	0.95	430
NLI46C101K__F	100	$\pm 10\%$	45	796KHz	6.0	1.0	400
NLI46C121K__F	120	$\pm 10\%$	45	796KHz	5.5	1.1	370
NLI46C151K__F	150	$\pm 10\%$	65	796KHz	4.2	1.3	350
NLI46C181K__F	180	$\pm 10\%$	65	796KHz	3.6	1.5	320
NLI46C221K__F	220	$\pm 10\%$	65	796KHz	2.8	1.8	300
NLI46C271K__F	270	$\pm 10\%$	50	796KHz	2.4	1.9	275
NLI46C331K__F	330	$\pm 10\%$	50	796KHz	2.2	2.2	250
NLI46C391K__F	390	$\pm 10\%$	50	796KHz	2.0	2.7	220
NLI46C471K__F	470	$\pm 10\%$	50	796KHz	1.7	3.6	200
NLI46C561K__F	560	$\pm 10\%$	50	796KHz	1.5	4.2	190
NLI46C681K__F	680	$\pm 10\%$	50	796KHz	1.3	4.6	170
NLI46C821K__F	820	$\pm 10\%$	50	796KHz	1.1	5.7	155
NLI46C102K__F	1,000	$\pm 10\%$	90	252KHz	1.0	6.7	150
NLI46C122K__F	1,200	$\pm 10\%$	90	252KHz	0.9	8.2	140
NLI46C152K__F	1,500	$\pm 10\%$	80	252KHz	0.8	13	120
NLI46C182K__F	1,800	$\pm 10\%$	80	252KHz	0.8	15	110
NLI46C222K__F	2,200	$\pm 10\%$	80	252KHz	0.8	17	100
NLI46C272K__F	2,700	$\pm 10\%$	80	252KHz	0.8	19	90
NLI46C332K__F	3,300	$\pm 10\%$	70	252KHz	0.7	26	83
NLI46C392K__F	3,900	$\pm 10\%$	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 (μ H) @ 1KHz	Inductance Tolerance*	Q min.	Q Freq.	DCR (Ω) max.	DC I (mA)
NLI46C472K__F	4,700	$\pm 10\%$	65	252KHz	45	70
NLI46C562K__F	5,600	$\pm 10\%$	65	252KHz	48	62
NLI46C682K__F	6,800	$\pm 10\%$	65	252KHz	56	56
NLI46C822K__F	8,200	$\pm 10\%$	65	252KHz	62	52
NLI46C103K__F	10,000	$\pm 10\%$	45	79.6KHz	72	47
NLI46C153K__F	15,000	$\pm 10\%$	45	79.6KHz	120	35
NLI46C223K__F	22,000	$\pm 10\%$	45	79.6KHz	160	24
NLI46C253K__F	25,000	$\pm 10\%$	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 (μ H) @ 1KHz	Inductance Tolerance*	Q min.	Q Freq.	DCR (Ω) max.	DC I (mA)
NLI68C3R3K__F	3.3	$\pm 10\%$	20	7.96MHz	0.016	3500
NLI68C4R7K__F	4.7	$\pm 10\%$	20	7.96MHz	0.020	3000
NLI68C6R8K__F	6.8	$\pm 10\%$	20	7.96MHz	0.022	2500
NLI68C100K__F	10	$\pm 10\%$	30	2.52MHz	0.039	2000
NLI68C150K__F	15	$\pm 10\%$	30	2.52MHz	0.045	1700
NLI68C220K__F	22	$\pm 10\%$	30	2.52MHz	0.062	1400
NLI68C330K__F	33	$\pm 10\%$	30	2.52MHz	0.10	1100
NLI68C470K__F	47	$\pm 10\%$	30	2.52MHz	0.15	950
NLI68C680K__F	68	$\pm 10\%$	30	2.52MHz	0.22	800
NLI68C101K__F	100	$\pm 10\%$	20	796KHz	0.35	650
NLI68C151K__F	150	$\pm 10\%$	20	796KHz	0.43	540
NLI68C221K__F	220	$\pm 10\%$	20	796KHz	0.90	440
NLI68C331K__F	330	$\pm 10\%$	20	796KHz	1.5	360
NLI68C471K__F	470	$\pm 10\%$	20	796KHz	1.8	300
NLI68C681K__F	680	$\pm 10\%$	20	796KHz	2.5	250
NLI68C102K__F	1,000	$\pm 10\%$	100	252KHz	3.2	200
NLI68C122K__F	1,200	$\pm 10\%$	70	252KHz	3.5	180
NLI68C152K__F	1,500	$\pm 10\%$	70	252KHz	4.5	170
NLI68C182K__F	1,800	$\pm 10\%$	70	252KHz	5.0	155
NLI68C222K__F	2,200	$\pm 10\%$	70	252KHz	6.8	140
NLI68C272K__F	2,700	$\pm 10\%$	70	252KHz	7.2	125
NLI68C332K__F	3,300	$\pm 10\%$	70	252KHz	10.5	115
NLI68C392K__F	3,900	$\pm 10\%$	70	252KHz	11.7	105
NLI68C472K__F	4,700	$\pm 10\%$	70	252KHz	13.6	95
NLI68C562K__F	5,600	$\pm 10\%$	70	252KHz	16.6	85
NLI68C682K__F	6,800	$\pm 10\%$	70	252KHz	19.6	80
NLI68C822K__F	8,200	$\pm 10\%$	70	252KHz	25.2	70
NLI68C103K__F	10,000	$\pm 10\%$	70	79.6KHz	29.5	65
NLI68C123K__F	12,000	$\pm 10\%$	50	79.6KHz	33.8	60
NLI68C153K__F	15,000	$\pm 10\%$	50	79.6KHz	45.4	55
NLI68C183K__F	18,000	$\pm 10\%$	50	79.6KHz	50.4	50
NLI68C223K__F	22,000	$\pm 10\%$	50	79.6KHz	80.0	45
NLI68C303K__F	30,000	$\pm 10\%$	50	79.6KHz	91.5	40
NLI68C333K__F	33,000	$\pm 10\%$	50	79.6KHz	98.5	35
NLI68C393K__F	39,000	$\pm 10\%$	50	79.6KHz	140	32
NLI68C473K__F	47,000	$\pm 10\%$	50	79.6KHz	160	30
NLI68C503K__F	50,000	$\pm 10\%$	50	79.6KHz	170	29
NLI68C563K__F	56,000	$\pm 10\%$	50	79.6KHz	250	28
NLI68C683K__F	68,000	$\pm 10\%$	50	79.6KHz	282	25
NLI68C823K__F	82,000	$\pm 10\%$	50	79.6KHz	312	23
NLI68C104K__F	100,000	$\pm 10\%$	30	25.2KHz	380	20
NLI68C124K__F	120,000	$\pm 10\%$	30	25.2KHz	430	18
NLI68C154K__F	150,000	$\pm 10\%$	30	25.2KHz	520	16

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

* Contact NIC for other tolerance options.



NPI77C STANDARD VALUES (H = 9.5mm x D = 8.5mm)								
Part Number	Inductance (μH) @ 1KHz	Inductance Tolerance*	Q min.	Q Freq.	SRF (MHz) min.	DCR (Ω) max.	I sat (A)	I rms (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

I_{rm} maximum +20°C temperature rise, I_{sat} ΔL -10% max.

* Contact NIC for other tolerance options.

NPI87C STANDARD VALUES (H = 9.5mm x D = 10mm)								
Part Number	Inductance (μH) @ 1KHz	Inductance Tolerance*	Q min.	Q Freq.	SRF (MHz) min.	DCR (Ω) max.	I sat (A)	I rms (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

I_{rm} maximum +20°C temperature rise, I_{sat} ΔL -10% max.

* Contact NIC for other tolerance options.



NPI81C STANDARD VALUES (H = 13mm x D = 10mm)							
Part Number	Inductance (μ H) @ 1KHz	Inductance Tolerance*	Q min.	Q Freq.	SRF (MHz) min.	DCR (Ω) max.	DC I (mA)
NLI81C3R3M__F	3.3	$\pm 20\%$	30	7.96MHz	65	0.012	5000
NLI81C3R9K__F	3.9	$\pm 10\%$	30	7.96MHz	55	0.014	4600
NLI81C4R7K__F	4.7	$\pm 10\%$	30	7.96MHz	45	0.016	4300
NLI81C5R6K__F	5.6	$\pm 10\%$	30	7.96MHz	38	0.02	3900
NLI81C6R8K__F	6.8	$\pm 10\%$	30	7.96MHz	27	0.022	3700
NLI81C8R2K__F	8.2	$\pm 10\%$	30	7.96MHz	21	0.024	3500
NLI81C100K__F	10	$\pm 10\%$	50	2.52MHz	17	0.025	3200
NLI81C120K__F	12	$\pm 10\%$	50	2.52MHz	15	0.027	3000
NLI81C150K__F	15	$\pm 10\%$	50	2.52MHz	13	0.033	2800
NLI81C180K__F	18	$\pm 10\%$	50	2.52MHz	12	0.039	2600
NLI81C220K__F	22	$\pm 10\%$	50	2.52MHz	11	0.047	2400
NLI81C270K__F	27	$\pm 10\%$	50	2.52MHz	10	0.052	2100
NLI81C330K__F	33	$\pm 10\%$	50	2.52MHz	8.5	0.075	1900
NLI81C390K__F	39	$\pm 10\%$	40	2.52MHz	7.7	0.082	1700
NLI81C470K__F	47	$\pm 10\%$	40	2.52MHz	6.7	0.10	1500
NLI81C560K__F	56	$\pm 10\%$	40	2.52MHz	6.4	0.15	1300
NLI81C680K__F	68	$\pm 10\%$	30	2.52MHz	5.8	0.18	1200
NLI81C820K__F	82	$\pm 10\%$	30	2.52MHz	5.2	0.20	1100
NLI81C101K__F	100	$\pm 10\%$	30	796KHz	4.4	0.20	900
NLI81C121K__F	120	$\pm 10\%$	30	796KHz	4.2	0.22	800
NLI81C151K__F	150	$\pm 10\%$	30	796KHz	3.7	0.24	720
NLI81C181K__F	180	$\pm 10\%$	30	796KHz	3.5	0.28	650
NLI81C221K__F	220	$\pm 10\%$	20	796KHz	3.3	0.35	600
NLI81C271K__F	270	$\pm 10\%$	20	796KHz	2.9	0.40	550
NLI81C331K__F	330	$\pm 10\%$	20	796KHz	2.6	0.47	500
NLI81C391K__F	390	$\pm 10\%$	20	796KHz	2.4	0.68	460
NLI81C471K__F	470	$\pm 10\%$	20	796KHz	2.2	0.8	420
NLI81C561K__F	560	$\pm 10\%$	20	796KHz	2.0	1.0	380
NLI81C681K__F	680	$\pm 10\%$	20	796KHz	1.8	1.2	350
NLI81C821K__F	820	$\pm 10\%$	20	796KHz	1.7	1.5	310
NLI81C102K__F	1,000	$\pm 10\%$	40	252KHz	1.5	1.8	280
NLI81C122K__F	1,200	$\pm 10\%$	40	252KHz	1.4	2.0	250
NLI81C152K__F	1,500	$\pm 10\%$	40	252KHz	1.3	2.4	230
NLI81C182K__F	1,800	$\pm 10\%$	40	252KHz	1.1	2.8	210
NLI81C222K__F	2,200	$\pm 10\%$	40	252KHz	1.0	3.3	190
NLI81C272K__F	2,700	$\pm 10\%$	40	252KHz	0.88	5.0	170
NLI81C332K__F	3,300	$\pm 10\%$	40	252KHz	0.78	5.6	150
NLI81C392K__F	3,900	$\pm 10\%$	40	252KHz	0.72	6.2	140
NLI81C472K__F	4,700	$\pm 10\%$	40	252KHz	0.65	7.0	130
NLI81C562K__F	5,600	$\pm 10\%$	40	252KHz	0.58	9.1	120
NLI81C682K__F	6,800	$\pm 10\%$	40	252KHz	0.55	10	110
NLI81C822K__F	8,200	$\pm 10\%$	20	252KHz	0.50	15	100
NLI81C103K__F	10,000	$\pm 10\%$	20	79.6KHz	0.42	24	90
NLI81C473K__F	47,000	$\pm 10\%$	60	79.6KHz	0.20	80	40
NLI81C104K__F	100,000	$\pm 10\%$	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 (μ H) @ 1KHz	Inductance Tolerance*	Q min.	Q Freq.	SRF (MHz) min.	DCR (Ω) max.	I sat (A)	I rms (A)
NLI100C3R3M__F	3.3	$\pm 20\%$	10	7.96MHz	36	0.01	8.8	5.9
NLI100C4R7M__F	4.7	$\pm 20\%$	10	7.96MHz	28	0.015	7.2	4.8
NLI100C6R8M__F	6.8	$\pm 20\%$	10	7.96MHz	18	0.016	6.1	4.6
NLI100C100M__F	10	$\pm 20\%$	20	2.52MHz	16	0.025	5.0	3.7
NLI100C150M__F	15	$\pm 20\%$	20	2.52MHz	12	0.029	4.2	3.4
NLI100C220K__F	22	$\pm 10\%$	20	2.52MHz	9.5	0.04	3.4	2.9
NLI100C330K__F	33	$\pm 10\%$	30	2.52MHz	7.0	0.062	2.8	2.3
NLI100C470K__F	47	$\pm 10\%$	30	2.52MHz	5.8	0.075	2.3	2.1
NLI100C680K__F	68	$\pm 10\%$	20	2.52MHz	4.7	0.13	1.9	1.6
NLI100C101K__F	100	$\pm 10\%$	20	796KHz	3.8	0.16	1.6	1.4
NLI100C151K__F	150	$\pm 10\%$	20	796KHz	3.1	0.26	1.3	1.1
NLI100C221K__F	220	$\pm 10\%$	20	796KHz	2.5	0.33	1.1	1.0
NLI100C331K__F	330	$\pm 10\%$	20	796KHz	2.0	0.52	0.88	0.82
NLI100C471K__F	470	$\pm 10\%$	10	796KHz	1.6	0.66	0.75	0.72
NLI100C681K__F	680	$\pm 10\%$	10	796KHz	1.3	1.1	0.61	0.56
NLI100C102K__F	1,000	$\pm 10\%$	20	252KHz	1.1	1.4	0.51	0.50
NLI100C152K__F	1,500	$\pm 10\%$	30	252KHz	0.82	2.4	0.43	0.38
NLI100C222K__F	2,200	$\pm 10\%$	20	252KHz	0.76	3.2	0.35	0.33
NLI100C332K__F	3,300	$\pm 10\%$	30	252KHz	0.64	4.9	0.28	0.26
NLI100C472K__F	4,700	$\pm 10\%$	30	252KHz	0.54	7.6	0.24	0.21
NLI100C682K__F	6,800	$\pm 10\%$	30	252KHz	0.45	9.8	0.20	0.18
NLI100C103K__F	10,000	$\pm 10\%$	30	79.6KHz	0.38	18	0.17	0.14
NLI100C153K__F	15,000	$\pm 10\%$	50	79.6KHz	0.29	24	0.13	0.12

I_{rm} maximum +20°C temperature rise, I_{sat} Δ L -10% max.

* Contact NIC for other tolerance options.

NPI102C STANDARD VALUES (H = 15mm x D = 12mm)								
Part Number	Inductance (μ H) @ 1KHz	Inductance Tolerance*	Q min.	Q Freq.	SRF (MHz) min.	DCR (Ω) max.	I sat (A)	I rms (A)
NLI102C103K__F	10,000	$\pm 10\%$	100	79.6KHz	0.35	12	0.18	0.17
NLI102C123K__F	12,000	$\pm 10\%$	100	79.6KHz	0.31	13	0.16	0.16
NLI102C153K__F	15,000	$\pm 10\%$	100	79.6KHz	0.28	18	0.14	0.14
NLI102C183K__F	18,000	$\pm 10\%$	80	79.6KHz	0.26	25	0.13	0.12
NLI102C223K__F	22,000	$\pm 10\%$	80	79.6KHz	0.22	30	0.12	0.11
NLI102C273K__F	27,000	$\pm 10\%$	80	79.6KHz	0.20	35	0.11	0.10
NLI102C333K__F	33,000	$\pm 10\%$	60	79.6KHz	0.19	40	0.10	0.09
NLI102C393K__F	39,000	$\pm 10\%$	60	79.6KHz	0.17	50	0.09	0.08
NLI102C473K__F	47,000	$\pm 10\%$	60	79.6KHz	0.15	50	0.080	0.075
NLI102C563K__F	56,000	$\pm 10\%$	40	79.6KHz	0.13	65	0.075	0.070
NLI102C683K__F	68,000	$\pm 10\%$	40	79.6KHz	0.12	70	0.070	0.065
NLI102C823K__F	82,000	$\pm 10\%$	30	79.6KHz	0.10	100	0.060	0.055
NLI102C104K__F	100,000	$\pm 10\%$	30	79.6KHz	0.10	135	0.055	0.045

I_{rm} maximum +20°C temperature rise, I_{sat} Δ L -10% max.

* Contact NIC for other tolerance options.

NPI108C STANDARD VALUES (H = 21mm x D = 12mm)					
Part Number	Inductance (μ H) @ 1KHz	Inductance Tolerance*	DCR (Ω) max.	I sat (A)	I rms (A)
NLI108C4R7K__F	4.7	$\pm 10\%$	0.008	10	6.0
NLI108C6R8K__F	6.8	$\pm 10\%$	0.011	8.0	5.5
NLI108C100K__F	10	$\pm 10\%$	0.017	7.0	4.5
NLI108C150K__F	15	$\pm 10\%$	0.022	5.5	4.0
NLI108C220K__F	22	$\pm 10\%$	0.026	4.5	3.7
NLI108C330K__F	33	$\pm 10\%$	0.032	3.8	3.3
NLI108C470K__F	47	$\pm 10\%$	0.035	3.2	3.0
NLI108C680K__F	68	$\pm 10\%$	0.047	2.6	2.6
NLI108C101K__F	100	$\pm 10\%$	0.090	2.2	2.0
NLI108C151K__F	150	$\pm 10\%$	0.129	1.8	1.6
NLI108C221K__F	220	$\pm 10\%$	0.162	1.5	1.5
NLI108C331K__F	330	$\pm 10\%$	0.212	1.2	1.2
NLI108C471K__F	470	$\pm 10\%$	0.380	1.0	1.0
NLI108C681K__F	680	$\pm 10\%$	0.548	0.84	0.84
NLI108C102K__F	1,000	$\pm 10\%$	0.844	0.66	0.66
NLI108C152K__F	1,500	$\pm 10\%$	1.18	0.55	0.55
NLI108C222K__F	2,200	$\pm 10\%$	2.00	0.46	0.44
NLI108C332K__F	3,300	$\pm 10\%$	2.53	0.38	0.38
NLI108C472K__F	4,700	$\pm 10\%$	3.19	0.32	0.32
NLI108C682K__F	6,800	$\pm 10\%$	5.69	0.26	0.25
NLI108C103K__F	10,000	$\pm 10\%$	7.30	0.22	0.22
NLI108C153K__F	15,000	$\pm 10\%$	10.5	0.18	0.18
NLI108C223K__F	22,000	$\pm 10\%$	21.8	0.14	0.13
NLI108C333K__F	33,000	$\pm 10\%$	25.7	0.12	0.12
NLI108C473K__F	47,000	$\pm 10\%$	36.1	0.10	0.10
NLI108C683K__F	68,000	$\pm 10\%$	57.3	0.08	0.08
NLI108C104K__F	100,000	$\pm 10\%$	89.7	0.06	0.06

I_{rm} maximum +20°C temperature rise, I_{sat} Δ L -10% max.

* Contact NIC for other tolerance options.

NPI123C STANDARD VALUES (H = 16mm x D = 14mm)					
Part Number	Inductance (μ H) @ 1KHz	Inductance Tolerance*	DCR (Ω) max.	I sat (A)	I rms (A)
NLI123C100M__F	10	$\pm 10\%$	0.023	8.0	5.1
NLI123C150K__F	15	$\pm 10\%$	0.028	6.5	4.5
NLI123C220K__F	22	$\pm 10\%$	0.035	5.5	4.2
NLI123C330K__F	33	$\pm 10\%$	0.043	4.5	3.7
NLI123C470K__F	47	$\pm 10\%$	0.052	3.6	3.4
NLI123C680K__F	68	$\pm 10\%$	0.068	3.1	3
NLI123C101K__F	100	$\pm 10\%$	0.097	2.6	2.5
NLI123C151K__F	150	$\pm 10\%$	0.14	2.1	2.1
NLI123C221K__F	220	$\pm 10\%$	0.20	1.7	1.7
NLI123C331K__F	330	$\pm 10\%$	0.30	1.4	1.4
NLI123C471K__F	470	$\pm 10\%$	0.43	1.1	1.1
NLI123C681K__F	680	$\pm 10\%$	0.61	0.95	0.99
NLI123C102K__F	1000	$\pm 10\%$	1.0	0.78	0.78
NLI123C152K__F	1500	$\pm 10\%$	1.3	0.64	0.68
NLI123C222K__F	2200	$\pm 10\%$	2.0	0.53	0.55
NLI123C332K__F	3300	$\pm 10\%$	3.1	0.43	0.44
NLI123C472K__F	4700	$\pm 10\%$	4.4	0.36	0.37
NLI123C682K__F	6800	$\pm 10\%$	6.5	0.30	0.3
NLI123C103K__F	10000	$\pm 10\%$	10	0.24	0.24

I_{rm} maximum +20°C temperature rise, I_{sat} Δ L -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	650
NLI87C	100	600
NLI81C	100	600
NLI100C	100	500
NLI102C	100	500
NLI108C	50	350
NLI123C	50	350

TAPING SPECIFICATIONS

Size	P ₁	P ₂	H ₁	H ₂	W ₁	W ₂	W ₃	D	S
NLI41C ~ 108C	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
NLI123C	15.0 ± 1.0	15.0 ± 0.3	32.5 ref.	18.0 ± 2.0					7.5 ± 1.0

