

NLI-D Series

Radial Power Inductors



FEATURES

- RADIAL LEADED POWER INDUCTOR
- WIRE WOUND CONSTRUCTION
- WIDE VALUE RANGE 10 μ H ~ 47,000 μ H
- AVAILABLE WITH HIGH TEMPERATURE SLEEVE
- NINE CASE SIZES (5.2X6.5mm ~ 14.4X10.5mm)
- AVAILABLE IN BULK OR TAPE & BOX PACKAGING



TWO LEADED PARTS

Case Code	NLI65D	NLI66D	NLI85D	NLI87D	NLI89D	NLI114D
Inductance Range	22 μ H ~ 1,000 μ H	22 μ H ~ 1,000 μ H	10 μ H ~ 10,000 μ H	10 μ H ~ 10,000 μ H	10 μ H ~ 47,000 μ H	6.3 μ H ~ 39,000 μ H
Ambient Operating Temperature Range	-20°C ~ +80°C					
Maximum Component Temperature (Ambient + Self-Heating)	+120°C					
Temperature Rise at DCI	+40°C					
Inductance Change at DCI	-10%					
Inductance Tolerance	K ($\pm$ 10%), M ($\pm$ 20%)					

FOUR LEADED PARTS

Case Code	NLI106D	NLI108D	NLI110D
Inductance Range (μ H)	10 μ H ~ 1,000 μ H	10 μ H ~ 1,000 μ H	10 μ H ~ 1,000 μ H
Ambient Operating Temperature Range	-20°C ~ +80°C		
Maximum Component Temperature (Ambient + Self-Heating)	+120°C		
Temperature Rise at DCI	+40°C		
Inductance Change at DCI	-10%		
Inductance Tolerance	K ($\pm$ 10%), M ($\pm$ 20%)		

PART NUMBER SYSTEM

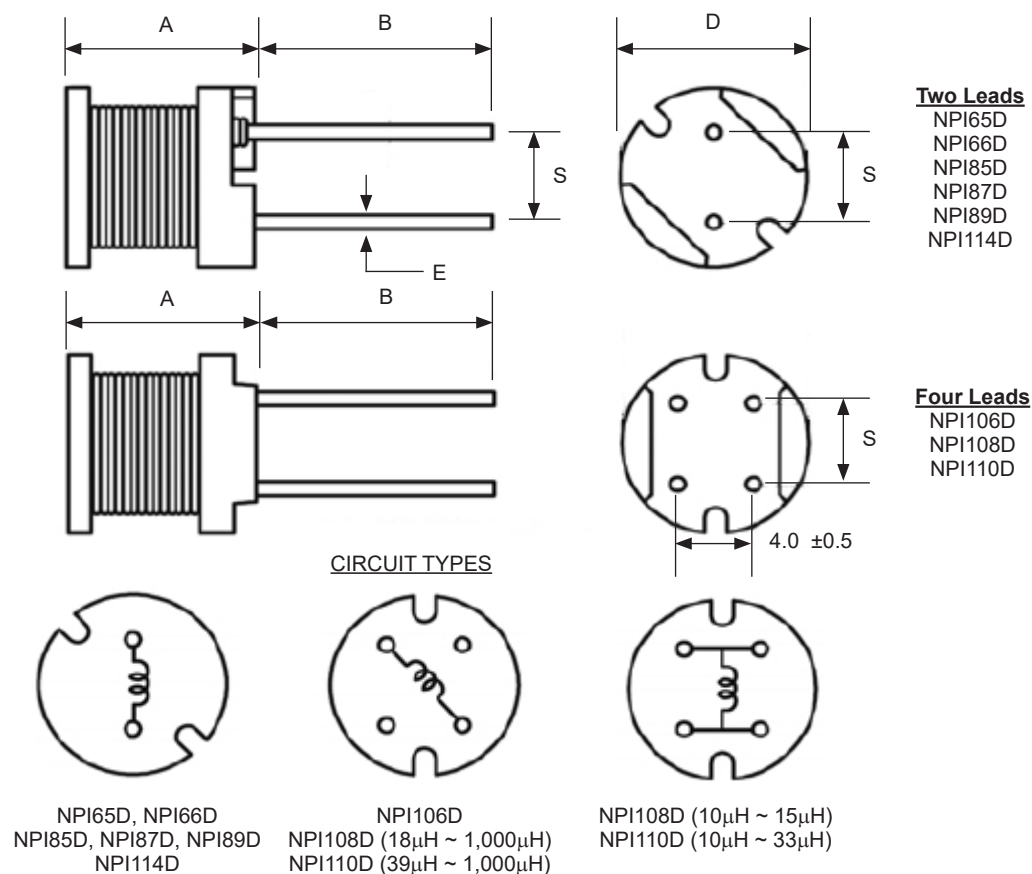
NLI 66 D 220 K U TB E

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

*Optional Tape & Box packaging not available for case sizes 106, 108 and 110

DIMENSIONS (mm)

Series	A max.	B ± 1.0	S ± 0.5 (Bulk)	S ± 0.5 (Tape & Box)	D max.	E ± 0.05	Number of Leads
NLI65D	5.2	4.0	4.0	n/a	6.5	0.50	2
NLI66D	6.5	4.0	4.0	n/a	6.5	0.50	2
NLI85D	5.5	5.0	5.0	5.0	8.3	0.65	2
NLI87D	7.5	5.0	5.0	5.0	8.3	0.65	2
NLI89D	9.5	5.0	5.0	5.0	8.3	0.65	2
NLI114D	14.4	5.0	5.0	n/a	10.5	0.80	2
NLI106D	6.5	3.5	5.0	n/a	10.5	0.80	4
NLI108D	8.5	3.5	5.0	n/a	10.5	0.80	4
NLI110D	10.5	3.5	5.0	n/a	10.5	0.80	4



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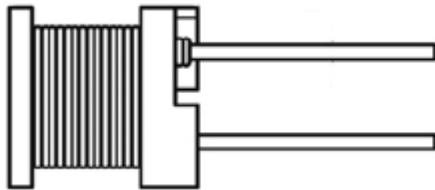


NPI65D STANDARD VALUES (H = 5.2mm x D = 6.5mm)					
Part Number	Inductance (μH)	Inductance Tolerance*	Test Freq.	DCR (Ω) max.	DCI (A) max.
NLI65D220K __ _F	22	±10%	2.52MHz	0.18	0.90
NLI65D270K __ _F	27	±10%	2.52MHz	0.21	0.81
NLI65D330K __ _F	33	±10%	2.52MHz	0.27	0.74
NLI65D390K __ _F	39	±10%	2.52MHz	0.29	0.68
NLI65D470K __ _F	47	±10%	2.52MHz	0.34	0.62
NLI65D560K __ _F	56	±10%	2.52MHz	0.42	0.57
NLI65D680K __ _F	68	±10%	2.52MHz	0.48	0.51
NLI65D820K __ _F	82	±10%	2.52MHz	0.55	0.47
NLI65D101K __ _F	100	±10%	1KHz	0.68	0.42
NLI65D121K __ _F	120	±10%	1KHz	0.77	0.39
NLI65D151K __ _F	150	±10%	1KHz	0.95	0.35
NLI65D181K __ _F	180	±10%	1KHz	1.15	0.32
NLI65D221K __ _F	220	±10%	1KHz	1.30	0.29
NLI65D271K __ _F	270	±10%	1KHz	1.55	0.26
NLI65D331K __ _F	330	±10%	1KHz	2.18	0.23
NLI65D391K __ _F	390	±10%	1KHz	2.47	0.21
NLI65D471K __ _F	470	±10%	1KHz	2.92	0.20
NLI65D561K __ _F	560	±10%	1KHz	3.97	0.18
NLI65D681K __ _F	680	±10%	1KHz	4.57	0.16
NLI65D821K __ _F	820	±10%	1KHz	5.28	0.15
NLI65D102K __ _F	1000	±10%	1KHz	7.06	0.13

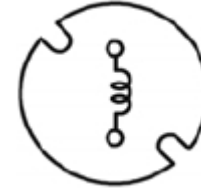
DC I maximum $\Delta +40^{\circ}\text{C}$ temperature rise, ΔL -10% max.

* Contact NIC for other tolerance options.

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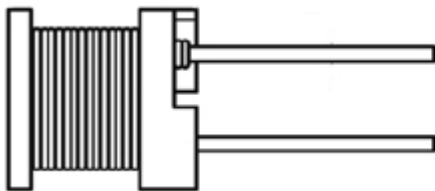


NPI66D STANDARD VALUES (H = 6.5mm x D = 6.5mm)					
Part Number	Inductance (μH)	Inductance Tolerance*	Test Freq.	DCR (Ω) max.	DCI (A) max.
NLI66D220K __ _ F	22	±10%	2.52MHz	0.11	1.27
NLI66D270K __ _ F	27	±10%	2.52MHz	0.14	1.14
NLI66D330K __ _ F	33	±10%	2.52MHz	0.17	1.03
NLI66D390K __ _ F	39	±10%	2.52MHz	0.19	0.95
NLI66D470K __ _ F	47	±10%	2.52MHz	0.23	0.87
NLI66D560K __ _ F	56	±10%	2.52MHz	0.26	0.80
NLI66D680K __ _ F	68	±10%	2.52MHz	0.28	0.72
NLI66D820K __ _ F	82	±10%	2.52MHz	0.39	0.66
NLI66D101K __ _ F	100	±10%	1KHz	0.43	0.59
NLI66D121K __ _ F	120	±10%	1KHz	0.54	0.54
NLI66D151K __ _ F	150	±10%	1KHz	0.64	0.48
NLI66D181K __ _ F	180	±10%	1KHz	0.74	0.44
NLI66D221K __ _ F	220	±10%	1KHz	0.96	0.40
NLI66D271K __ _ F	270	±10%	1KHz	1.12	0.36
NLI66D331K __ _ F	330	±10%	1KHz	1.48	0.33
NLI66D391K __ _ F	390	±10%	1KHz	1.66	0.30
NLI66D471K __ _ F	470	±10%	1KHz	1.91	0.28
NLI66D561K __ _ F	560	±10%	1KHz	2.31	0.25
NLI66D681K __ _ F	680	±10%	1KHz	2.67	0.23
NLI66D821K __ _ F	820	±10%	1KHz	3.10	0.21
NLI66D102K __ _ F	1000	±10%	1KHz	4.45	0.19

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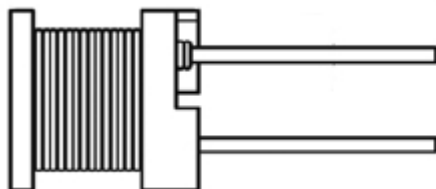


NPI85D STANDARD VALUES (H = 5.5mm x D = 8.3mm)					
Part Number	Inductance (μH)	Inductance Tolerance*	Test Freq.	DCR (Ω) max.	DCI (A) max.
NLI85D100M__F	10	±20%	2.52MHz	0.07	2.5
NLI85D120M__F	12	±20%	2.52MHz	0.08	2.4
NLI85D150M__F	15	±20%	2.52MHz	0.09	2.1
NLI85D180M__F	18	±20%	2.52MHz	0.10	2.0
NLI85D220K__F	22	±10%	2.52MHz	0.12	1.7
NLI85D270K__F	27	±10%	2.52MHz	0.14	1.6
NLI85D330K__F	33	±10%	2.52MHz	0.17	1.4
NLI85D390K__F	39	±10%	2.52MHz	0.21	1.3
NLI85D470K__F	47	±10%	2.52MHz	0.24	1.2
NLI85D560K__F	56	±10%	2.52MHz	0.31	1.1
NLI85D680K__F	68	±10%	2.52MHz	0.34	1.0
NLI85D820K__F	82	±10%	2.52MHz	0.40	0.93
NLI85D101K__F	100	±10%	1KHz	0.52	0.81
NLI85D121K__F	120	±10%	1KHz	0.59	0.76
NLI85D151K__F	150	±10%	1KHz	0.71	0.67
NLI85D181K__F	180	±10%	1KHz	0.89	0.62
NLI85D221K__F	220	±10%	1KHz	1.04	0.54
NLI85D271K__F	270	±10%	1KHz	1.28	0.49
NLI85D331K__F	330	±10%	1KHz	1.60	0.44
NLI85D391K__F	390	±10%	1KHz	1.67	0.41
NLI85D471K__F	470	±10%	1KHz	2.55	0.38
NLI85D561K__F	560	±10%	1KHz	2.83	0.35
NLI85D681K__F	680	±10%	1KHz	3.25	0.32
NLI85D821K__F	820	±10%	1KHz	3.82	0.31
NLI85D102K__F	1000	±10%	1KHz	5.28	0.25
NLI85D122K__F	1200	±10%	1KHz	6.03	0.23
NLI85D152K__F	1500	±10%	1KHz	7.15	0.21
NLI85D182K__F	1800	±10%	1KHz	8.26	0.20
NLI85D222K__F	2200	±10%	1KHz	11.1	0.18
NLI85D272K__F	2700	±10%	1KHz	13.1	0.16
NLI85D332K__F	3300	±10%	1KHz	15.9	0.14
NLI85D392K__F	3900	±10%	1KHz	18.0	0.13
NLI85D472K__F	4700	±10%	1KHz	23.9	0.12
NLI85D562K__F	5600	±10%	1KHz	26.8	0.11
NLI85D682K__F	6800	±10%	1KHz	36.0	0.098
NLI85D822K__F	8200	±10%	1KHz	46.5	0.088
NLI85D103K__F	10000	±10%	1KHz	55.7	0.081

DC I maximum Δ+40°C temperature rise, ΔL -10% max.

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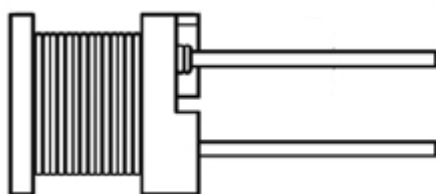


NPI87D STANDARD VALUES (H = 7.5mm x D = 8.3mm)					
Part Number	Inductance (μH)	Inductance Tolerance*	Test Freq.	DCR (Ω) max.	DCI (A) max.
NLI87D100M__F	10	±20%	2.52MHz	0.05	2.9
NLI87D120M__F	12	±20%	2.52MHz	0.06	2.5
NLI87D150M__F	15	±20%	2.52MHz	0.07	2.2
NLI87D180M__F	18	±20%	2.52MHz	0.08	1.9
NLI87D220K__F	22	±10%	2.52MHz	0.09	1.8
NLI87D270K__F	27	±10%	2.52MHz	0.11	1.7
NLI87D330K__F	33	±10%	2.52MHz	0.13	1.5
NLI87D390K__F	39	±10%	2.52MHz	0.14	1.3
NLI87D470K__F	47	±10%	2.52MHz	0.15	1.3
NLI87D560K__F	56	±10%	2.52MHz	0.18	1.2
NLI87D680K__F	68	±10%	2.52MHz	0.20	1.1
NLI87D820K__F	82	±10%	2.52MHz	0.24	1.0
NLI87D101K__F	100	±10%	1KHz	0.28	0.89
NLI87D121K__F	120	±10%	1KHz	0.36	0.81
NLI87D151K__F	150	±10%	1KHz	0.42	0.72
NLI87D181K__F	180	±10%	1KHz	0.57	0.66
NLI87D221K__F	220	±10%	1KHz	0.63	0.57
NLI87D271K__F	270	±10%	1KHz	0.88	0.51
NLI87D331K__F	330	±10%	1KHz	1.05	0.46
NLI87D391K__F	390	±10%	1KHz	1.17	0.44
NLI87D471K__F	470	±10%	1KHz	1.34	0.41
NLI87D561K__F	560	±10%	1KHz	1.72	0.36
NLI87D681K__F	680	±10%	1KHz	1.96	0.33
NLI87D821K__F	820	±10%	1KHz	2.56	0.3
NLI87D102K__F	1000	±10%	1KHz	2.94	0.27
NLI87D122K__F	1200	±10%	1KHz	4.04	0.24
NLI87D152K__F	1500	±10%	1KHz	4.70	0.22
NLI87D182K__F	1800	±10%	1KHz	5.05	0.20
NLI87D222K__F	2200	±10%	1KHz	6.25	0.18
NLI87D272K__F	2700	±10%	1KHz	8.72	0.16
NLI87D332K__F	3300	±10%	1KHz	10.6	0.15
NLI87D392K__F	3900	±10%	1KHz	14.2	0.14
NLI87D472K__F	4700	±10%	1KHz	16.7	0.12
NLI87D562K__F	5600	±10%	1KHz	18.7	0.11
NLI87D682K__F	6800	±10%	1KHz	21.8	0.10
NLI87D822K__F	8200	±10%	1KHz	28.7	0.093
NLI87D103K__F	10000	±10%	1KHz	33.0	0.084

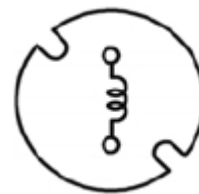
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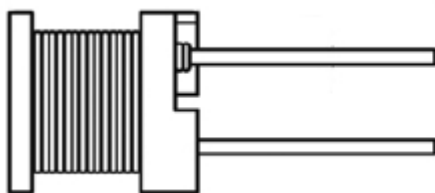


NPI89D STANDARD VALUES (H = 9.5mm x D = 8.3mm)					
Part Number	Inductance (μH)	Inductance Tolerance*	Test Freq.	DCR (Ω) max.	DCI (A) max.
NLI89D100M__F	10	±20%	2.52MHz	0.04	2.6
NLI89D120M__F	12	±20%	2.52MHz	0.04	2.6
NLI89D150M__F	15	±20%	2.52MHz	0.05	2.1
NLI89D180M__F	18	±20%	2.52MHz	0.05	2.0
NLI89D220K__F	22	±10%	2.52MHz	0.06	1.7
NLI89D270K__F	27	±10%	2.52MHz	0.06	1.6
NLI89D330K__F	33	±10%	2.52MHz	0.07	1.4
NLI89D390K__F	39	±10%	2.52MHz	0.08	1.4
NLI89D470K__F	47	±10%	2.52MHz	0.10	1.3
NLI89D560K__F	56	±10%	2.52MHz	0.11	1.2
NLI89D680K__F	68	±10%	2.52MHz	0.14	1.1
NLI89D820K__F	82	±10%	2.52MHz	0.16	1.0
NLI89D101K__F	100	±10%	1KHz	0.19	0.9
NLI89D121K__F	120	±10%	1KHz	0.22	0.82
NLI89D151K__F	150	±10%	1KHz	0.27	0.74
NLI89D181K__F	180	±10%	1KHz	0.31	0.71
NLI89D221K__F	220	±10%	1KHz	0.38	0.64
NLI89D271K__F	270	±10%	1KHz	0.53	0.57
NLI89D331K__F	330	±10%	1KHz	0.61	0.51
NLI89D391K__F	390	±10%	1KHz	0.69	0.48
NLI89D471K__F	470	±10%	1KHz	0.89	0.43
NLI89D561K__F	560	±10%	1KHz	1.01	0.40
NLI89D681K__F	680	±10%	1KHz	1.18	0.35
NLI89D821K__F	820	±10%	1KHz	1.57	0.32
NLI89D102K__F	1000	±10%	1KHz	1.84	0.30
NLI89D122K__F	1200	±10%	1KHz	2.10	0.27
NLI89D152K__F	1500	±10%	1KHz	2.80	0.23
NLI89D182K__F	1800	±10%	1KHz	3.21	0.21
NLI89D222K__F	2200	±10%	1KHz	4.21	0.19
NLI89D272K__F	2700	±10%	1KHz	4.94	0.17
NLI89D332K__F	3300	±10%	1KHz	6.16	0.15
NLI89D392K__F	3900	±10%	1KHz	6.84	0.14
NLI89D472K__F	4700	±10%	1KHz	7.89	0.13
NLI89D562K__F	5600	±10%	1KHz	11.5	0.12
NLI89D682K__F	6800	±10%	1KHz	13.2	0.11
NLI89D822K__F	8200	±10%	1KHz	15.2	0.10

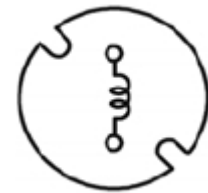
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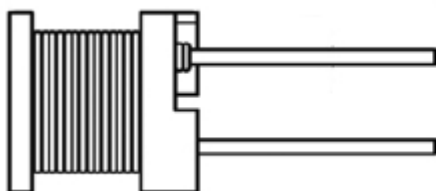


NPI89D STANDARD VALUES (H = 9.5mm x D = 8.3mm)					
Part Number	Inductance (μH)	Inductance Tolerance*	Test Freq.	DCR (Ω) max.	DCI (A) max.
NLI89D103K__F	10000	±10%	1KHz	22.0	0.089
NLI89D123K__F	12000	±10%	1KHz	25.0	0.073
NLI89D153K__F	15000	±10%	1KHz	29.1	0.068
NLI89D183K__F	18000	±10%	1KHz	38.9	0.066
NLI89D223K__F	22000	±10%	1KHz	44.9	0.059
NLI89D273K__F	27000	±10%	1KHz	55.7	0.052
NLI89D333K__F	33000	±10%	1KHz	64.2	0.048
NLI89D393K__F	39000	±10%	1KHz	74.2	0.042
NLI89D473K__F	47000	±10%	1KHz	96.4	0.038

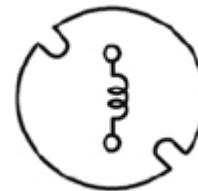
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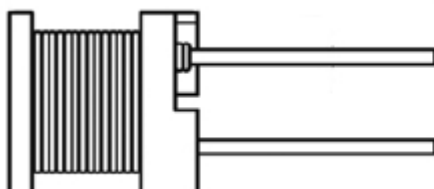
NPI114 STANDARD VALUES (H = 14.4mm x D = 10.5mm)					
Part Number	Inductance (μH)	Inductance Tolerance*	Test Freq.	DCR (Ω) max.	DCI (A) max.
NLI114D6R3M__F	6.3	±20%	2.52MHz	0.026	4.3
NLI114D7R5M__F	7.5	±20%	2.52MHz	0.029	4.2
NLI114D100M__F	10	±20%	2.52MHz	0.033	4.0
NLI114D120M__F	12	±20%	2.52MHz	0.035	3.9
NLI114D150M__F	15	±20%	2.52MHz	0.039	3.7
NLI114D180M__F	18	±20%	2.52MHz	0.047	3.5
NLI114D220M__F	22	±20%	2.52MHz	0.051	3.3
NLI114D270M__F	27	±20%	2.52MHz	0.057	3.1
NLI114D330K__F	33	±10%	2.52MHz	0.064	2.9
NLI114D390K__F	39	±10%	2.52MHz	0.074	2.7
NLI114D470K__F	47	±10%	2.52MHz	0.083	2.5
NLI114D560K__F	56	±10%	2.52MHz	0.104	2.3
NLI114D680K__F	68	±10%	2.52MHz	0.117	2.1
NLI114D820K__F	82	±10%	2.52MHz	0.13	1.9
NLI114D101K__F	100	±10%	1KHz	0.143	1.7
NLI114D121K__F	120	±10%	1KHz	0.195	1.5
NLI114D151K__F	150	±10%	1KHz	0.221	1.4
NLI114D181K__F	180	±10%	1KHz	0.26	1.3
NLI114D221K__F	220	±10%	1KHz	0.35	1.2
NLI114D271K__F	270	±10%	1KHz	0.39	1.1
NLI114D331K__F	330	±10%	1KHz	0.52	1.0
NLI114D391K__F	390	±10%	1KHz	0.57	0.92
NLI114D471K__F	470	±10%	1KHz	0.65	0.84
NLI114D561K__F	560	±10%	1KHz	0.79	0.75
NLI114D681K__F	680	±10%	1KHz	0.96	0.69
NLI114D821K__F	820	±10%	1KHz	1.22	0.62
NLI114D102K__F	1000	±10%	1KHz	1.6	0.52
NLI114D122K__F	1200	±10%	1KHz	2.2	0.46
NLI114D152K__F	1500	±10%	1KHz	2.5	0.41
NLI114D182K__F	1800	±10%	1KHz	2.9	0.36
NLI114D222K__F	2200	±10%	1KHz	3.2	0.32
NLI114D272K__F	2700	±10%	1KHz	3.7	0.29
NLI114D332K__F	3300	±10%	1KHz	5.0	0.27
NLI114D392K__F	3900	±10%	1KHz	5.6	0.25
NLI114D472K__F	4700	±10%	1KHz	7.4	0.23
NLI114D562K__F	5600	±10%	1KHz	8.2	0.21
NLI114D682K__F	6800	±10%	1KHz	11.9	0.19
NLI114D822K__F	8200	±10%	1KHz	14	0.17

DC I maximum $\Delta+40^{\circ}\text{C}$ temperature rise, $\Delta\text{L} -10\%$ max.

* Contact NIC for other tolerance options.

TWO LEADS

CIRCUIT



Performance Passives By Design

NIC Components Corp.
1 Huntingdon Quadrangle, Suite 1C10, Melville, NY 11747

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www.niccomp.com

NLI-D Series

Radial Power Inductors

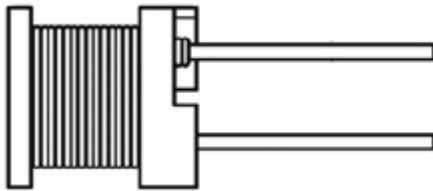


NPI114 STANDARD VALUES (H = 14.4mm x D = 10.5mm)					
Part Number	Inductance (μH)	Inductance Tolerance*	Test Freq.	DCR (Ω) max.	DCI (A) max.
NLI114D103K__F	10000	±10%	1KHz	16	0.16
NLI114D123K__F	12000	±10%	1KHz	21	0.15
NLI114D153K__F	15000	±10%	1KHz	24	0.14
NLI114D183K__F	18000	±10%	1KHz	27	0.13
NLI114D223K__F	22000	±10%	1KHz	34	0.12
NLI114D273K__F	27000	±10%	1KHz	39	0.11
NLI114D333K__F	33000	±10%	1KHz	51	0.10
NLI114D393K__F	39000	±10%	1KHz	58	0.09

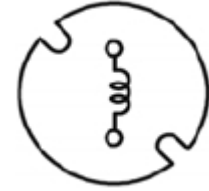
DC I maximum $\Delta +40^{\circ}\text{C}$ temperature rise, ΔL -10% max.

* Contact NIC for other tolerance options.

TWO LEADS



CIRCUIT



NLI Radial Power Inductors

NLI-D Series

Radial Power Inductors



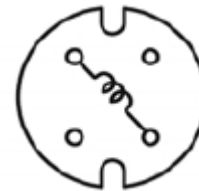
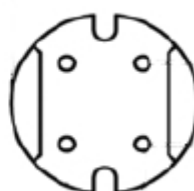
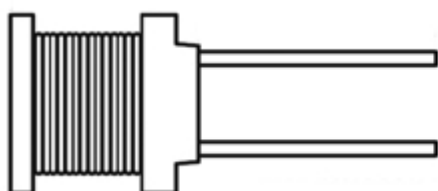
NPI106D STANDARD VALUES (H = 6.5mm x D = 10.5mm)					
Part Number	Inductance (μH)	Inductance Tolerance*	Test Freq.	DCR (Ω) max.	DCI (A) max.
NLI106D100M__F	10	±20%	2.52MHz	0.040	3.6
NLI106D120M__F	12	±20%	2.52MHz	0.044	3.3
NLI106D150M__F	15	±20%	2.52MHz	0.058	2.9
NLI106D180M__F	18	±20%	2.52MHz	0.064	2.7
NLI106D220M__F	22	±20%	2.52MHz	0.088	2.4
NLI106D270M__F	27	±20%	2.52MHz	0.10	2.2
NLI106D330K__F	33	±10%	2.52MHz	0.11	2.0
NLI106D390K__F	39	±10%	2.52MHz	0.14	1.8
NLI106D470K__F	47	±10%	2.52MHz	0.16	1.7
NLI106D560K__F	56	±10%	2.52MHz	0.19	1.5
NLI106D680K__F	68	±10%	2.52MHz	0.22	1.4
NLI106D820K__F	82	±10%	2.52MHz	0.29	1.3
NLI106D101K__F	100	±10%	1KHz	0.32	1.3
NLI106D121K__F	120	±10%	1KHz	0.38	1.2
NLI106D151K__F	150	±10%	1KHz	0.50	1.0
NLI106D181K__F	180	±10%	1KHz	0.56	0.84
NLI106D221K__F	220	±10%	1KHz	0.78	0.76
NLI106D271K__F	270	±10%	1KHz	0.92	0.69
NLI106D331K__F	330	±10%	1KHz	1.1	0.62
NLI106D391K__F	390	±10%	1KHz	1.3	0.57
NLI106D471K__F	470	±10%	1KHz	1.5	0.52
NLI106D561K__F	560	±10%	1KHz	1.9	0.48
NLI106D681K__F	680	±10%	1KHz	2.2	0.43
NLI106D821K__F	820	±10%	1KHz	2.6	0.40
NLI106D102K__F	1000	±10%	1KHz	3.2	0.36

DC I maximum $\Delta +40^{\circ}\text{C}$ temperature rise, ΔL -10% max.

* Contact NIC for other tolerance options.

FOUR LEADS

CIRCUIT FOR ALL VALUES



NLI-D Series

Radial Power Inductors



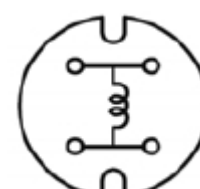
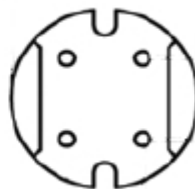
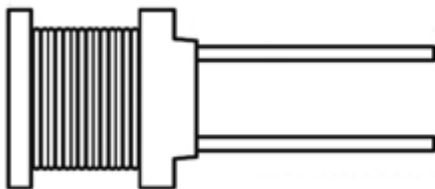
NPI108D STANDARD VALUES (H = 8.5mm x D = 10.5mm)					
Part Number	Inductance (μH)	Inductance Tolerance*	Test Freq.	DCR (Ω) max.	DCI (A) max.
NLI108D100M__F	10	±20%	2.52MHz	0.027	4.5
NLI108D120M__F	12	±20%	2.52MHz	0.031	4.1
NLI108D150M__F	15	±20%	2.52MHz	0.035	3.7
NLI108D180M__F	18	±20%	2.52MHz	0.049	3.4
NLI108D220M__F	22	±20%	2.52MHz	0.055	3.1
NLI108D270M__F	27	±20%	2.52MHz	0.062	2.8
NLI108D330K__F	33	±10%	2.52MHz	0.079	2.5
NLI108D390K__F	39	±10%	2.52MHz	0.087	2.3
NLI108D470K__F	47	±10%	2.52MHz	0.099	2.1
NLI108D560K__F	56	±10%	2.52MHz	0.13	1.9
NLI108D680K__F	68	±10%	2.52MHz	0.14	1.7
NLI108D820K__F	82	±10%	2.52MHz	0.16	1.6
NLI108D101K__F	100	±10%	1KHz	0.21	1.4
NLI108D121K__F	120	±10%	1KHz	0.24	1.3
NLI108D151K__F	150	±10%	1KHz	0.32	1.2
NLI108D181K__F	180	±10%	1KHz	0.35	1.1
NLI108D221K__F	220	±10%	1KHz	0.45	0.96
NLI108D271K__F	270	±10%	1KHz	0.61	0.87
NLI108D331K__F	330	±10%	1KHz	0.69	0.79
NLI108D391K__F	390	±10%	1KHz	0.78	0.72
NLI108D471K__F	470	±10%	1KHz	1.0	0.66
NLI108D561K__F	560	±10%	1KHz	1.2	0.60
NLI108D681K__F	680	±10%	1KHz	1.4	0.55
NLI108D821K__F	820	±10%	1KHz	1.8	0.50
NLI108D102K__F	1000	±10%	1KHz	2.1	0.45

DC I maximum Δ+40°C temperature rise, ΔL -10% max.

* Contact NIC for other tolerance options.

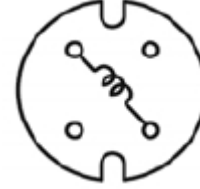
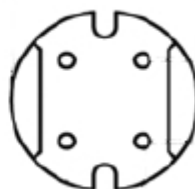
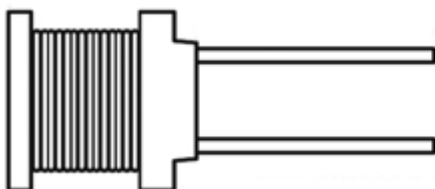
FOUR LEADS

CIRCUIT FOR VALUES FROM 10μH ~ 15μH



FOUR LEADS

CIRCUIT FOR VALUES FROM 18μH ~ 1000μH



NLI-D Series

Radial Power Inductors



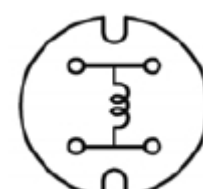
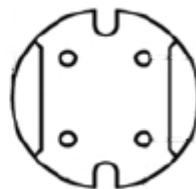
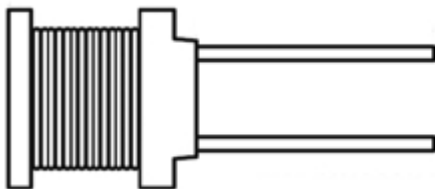
NPI110D STANDARD VALUES (H = 10.5mm x D = 10.5mm)					
Part Number	Inductance (μH)	Inductance Tolerance*	Test Freq.	DCR (Ω) max.	DCI (A) max.
NLI110D100M__F	10	±20%	2.52MHz	0.022	5.3
NLI110D120M__F	12	±20%	2.52MHz	0.023	4.9
NLI110D150M__F	15	±20%	2.52MHz	0.026	4.4
NLI110D180M__F	18	±20%	2.52MHz	0.033	4.0
NLI110D220M__F	22	±20%	2.52MHz	0.037	3.6
NLI110D270M__F	27	±20%	2.52MHz	0.048	3.3
NLI110D330K__F	33	±10%	2.52MHz	0.055	2.9
NLI110D390K__F	39	±10%	2.52MHz	0.073	2.7
NLI110D470K__F	47	±10%	2.52MHz	0.083	2.5
NLI110D560K__F	56	±10%	2.52MHz	0.092	2.3
NLI110D680K__F	68	±10%	2.52MHz	0.12	2.1
NLI110D820K__F	82	±10%	2.52MHz	0.14	1.9
NLI110D101K__F	100	±10%	1KHz	0.16	1.7
NLI110D121K__F	120	±10%	1KHz	0.20	1.5
NLI110D151K__F	150	±10%	1KHz	0.23	1.4
NLI110D181K__F	180	±10%	1KHz	0.31	1.3
NLI110D221K__F	220	±10%	1KHz	0.34	1.1
NLI110D271K__F	270	±10%	1KHz	0.40	1.0
NLI110D331K__F	330	±10%	1KHz	0.52	0.93
NLI110D391K__F	390	±10%	1KHz	0.65	0.86
NLI110D471K__F	470	±10%	1KHz	0.71	0.78
NLI110D561K__F	560	±10%	1KHz	1.0	0.71
NLI110D681K__F	680	±10%	1KHz	1.1	0.65
NLI110D821K__F	820	±10%	1KHz	1.3	0.59
NLI110D102K__F	1000	±10%	1KHz	1.7	0.53

DC I maximum Δ+40°C temperature rise, ΔL -10% max.

* Contact NIC for other tolerance options.

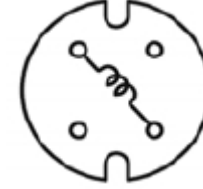
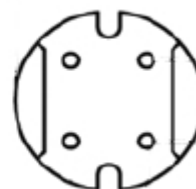
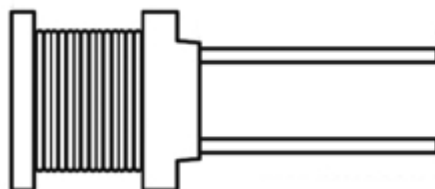
FOUR LEADS

CIRCUIT FOR VALUES FROM 10μH ~ 33μH



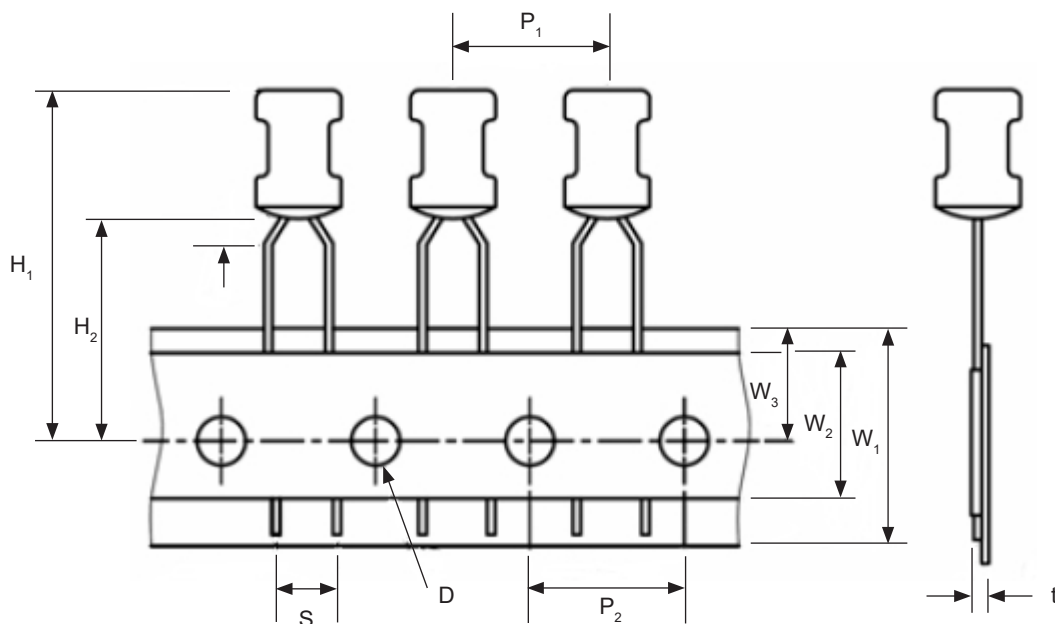
FOUR LEADS

CIRCUIT FOR VALUES FROM 39μH ~ 1000μH



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



PACKAGING QUANTITY

Series	Bulk (per bag)	Tape & Box (per box)
NLI65D	800	n/a
NLI66D	900	n/a
NLI85D	500	600
NLI87D	500	600
NLI89D	500	600
NLI106D	350	n/a
NLI108D	390	n/a
NLI110D	350	n/a
NLI114D	330	n/a