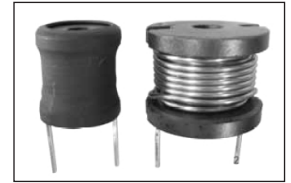


FEATURES

- RADIAL LEADED POWER INDUCTOR
- HIGH SATURATION CURRENT (UP TO 95 AMPS)
- WIDE VALUE RANGE 1.0 μ H ~ 15,000 μ H
- AVAILABLE WITH HIGH TEMPERATURE SLEEVE
- FOUR CASE SIZES (21.5X16.5mm ~ 28.0X40.0mm)
- BULK PACKAGING ONLY

**RoHS
Compliant**
includes all homogeneous materials

*See Part Number System for Details



CHARACTERISTICS

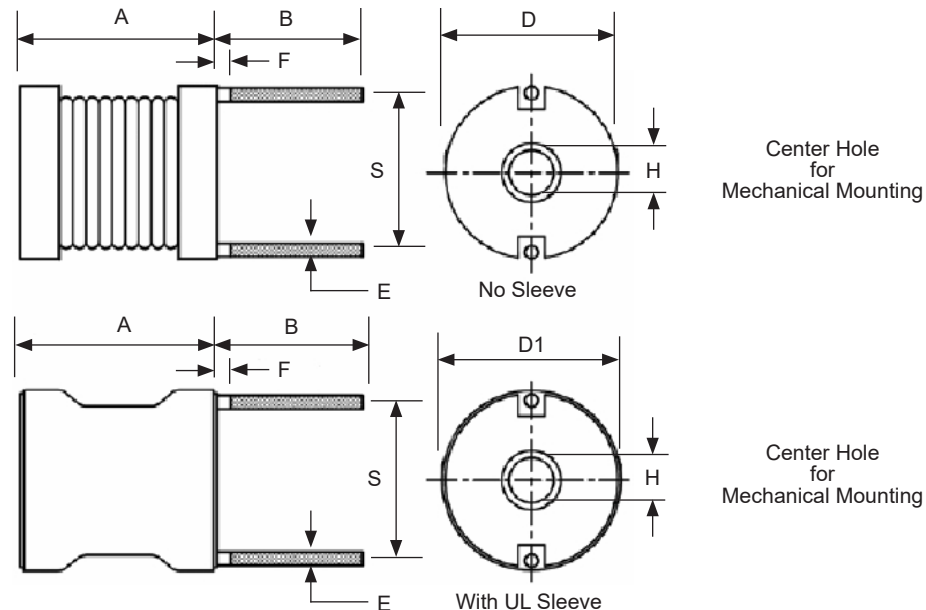
Case Code	NLI142P	NLI182P	NLI262P	NLI352P
Inductance Range (μ H)	1.0 μ H ~ 560 μ H	1.0 μ H ~ 2,200 μ H	1.0 μ H ~ 4,700 μ H	1.8 μ H ~ 15,000 μ H
Ambient Operating Temperature Range	-20°C ~ +80°C			
Maximum Component Temperature (Ambient + Self-Heating)	+120°C			
Temperature Rise at Isat	+25°C			
Inductance Change at Isat	-10%			
Inductance Tolerance	K ($\pm$ 10%), M ($\pm$ 20%)			

DIMENSIONS (mm)

Series	A max.	B $\pm$ 3.0	S Typ.	D max.	F max.	H min.
NLI142P	21.5	15.0	12.0	16.5	1.5	3.0
NLI182P	21.5	15.0	15.0	21.0	1.5	3.0
NLI262P	21.5	15.0	22.0	28.0	1.5	5.0
NLI352P	28.0	15.0	30.0	40.0	1.5	3.6

PACKAGING QUANTITY

Series	Bulk (per bag)
NLI142P	168
NLI182P	108
NLI262P	30
NLI352P	30



PART NUMBER SYSTEM

NLI 142 P 4R7 K E

- RoHS Compliant
- U = Optional Black UL Sleeve (blank for no sleeving)
- Inductance Tolerance Code: 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



NLI142P STANDARD VALUES (H = 21.5mm x D = 16.5mm)					
Part Number	Inductance (μH)	Inductance Tolerance*	DCR (Ω) max.	I sat (A)	Suggested Rated AC Current (A)
NLI142P1R0M__F	1	±20%	0.003	28	9.0
NLI142P1R2M__F	1.2	±20%	0.003	26	9.0
NLI142P1R5M__F	1.5	±20%	0.004	23	9.0
NLI142P1R8M__F	1.8	±20%	0.004	21	9.0
NLI142P2R2M__F	2.2	±20%	0.005	19	9.0
NLI142P2R7M__F	2.7	±20%	0.005	17	9.0
NLI142P3R3M__F	3.3	±20%	0.005	15	9.0
NLI142P3R9M__F	3.9	±20%	0.006	14	9.0
NLI142P4R7M__F	4.7	±20%	0.007	13	9.0
NLI142P5R6M__F	5.6	±20%	0.007	12	9.0
NLI142P6R8M__F	6.8	±20%	0.008	11	9.0
NLI142P8R2M__F	8.2	±20%	0.009	10	9.0
NLI142P100K__F	10	±10%	0.01	9.0	9.0
NLI142P120K__F	12	±10%	0.011	8.5	8.5
NLI142P150K__F	15	±10%	0.015	7.5	7.2
NLI142P180K__F	18	±10%	0.016	6.8	6.8
NLI142P220K__F	22	±10%	0.025	6.0	5.5
NLI142P270K__F	27	±10%	0.03	5.5	4.5
NLI142P330K__F	33	±10%	0.04	5.0	4.0
NLI142P390K__F	39	±10%	0.046	4.5	4.0
NLI142P470K__F	47	±10%	0.062	4.0	2.8
NLI142P560K__F	56	±10%	0.069	3.7	2.8
NLI142P680K__F	68	±10%	0.077	3.4	2.8
NLI142P820K__F	82	±10%	0.083	3.1	2.8
NLI142P101K__F	100	±10%	0.095	2.8	2.8
NLI142P121K__F	120	±10%	0.127	2.5	2.0
NLI142P151K__F	150	±10%	0.181	2.3	1.6
NLI142P181K__F	180	±10%	0.217	2.1	1.6
NLI142P221K__F	220	±10%	0.24	1.9	1.6
NLI142P271K__F	270	±10%	0.3	1.7	1.6
NLI142P331K__F	330	±10%	0.336	1.5	1.3
NLI142P391K__F	390	±10%	0.46	1.4	1.0
NLI142P471K__F	470	±10%	0.636	1.3	0.8
NLI142P561K__F	560	±10%	0.696	1.2	0.8

Isat ΔL -10% max., ΔT +25°C max.

* Contact NIC for other tolerance options.

_ Insert letter "U" if sleeving is required

NLI182P STANDARD VALUES (H = 21.5mm x D = 21.0mm)					
Part Number	Inductance (μH)	Inductance Tolerance*	DCR (Ω) max.	I sat (A)	Suggested Rated AC Current (A)
NLI182P1R0M__F	1	±20%	0.003	60	11.4
NLI182P1R2M__F	1.2	±20%	0.003	54	11.4
NLI182P1R5M__F	1.5	±20%	0.003	48	11.4
NLI182P1R8M__F	1.8	±20%	0.003	44	11.4
NLI182P2R2M__F	2.2	±20%	0.004	40	11.4
NLI182P2R7M__F	2.7	±20%	0.005	36	11.4
NLI182P3R3M__F	3.3	±20%	0.005	33	11.4
NLI182P3R9M__F	3.9	±20%	0.005	30	11.4
NLI182P4R7M__F	4.7	±20%	0.005	28	11.4
NLI182P5R6M__F	5.6	±20%	0.006	25	11.4
NLI182P6R8M__F	6.8	±20%	0.007	23	11.4
NLI182P8R2M__F	8.2	±20%	0.007	21	11.4
NLI182P100K__F	10	±10%	0.009	19	11.4
NLI182P120K__F	12	±10%	0.009	17	11.4
NLI182P150K__F	15	±10%	0.013	15	9.0
NLI182P180K__F	18	±10%	0.018	14	7.2
NLI182P220K__F	22	±10%	0.019	13	7.2
NLI182P270K__F	27	±10%	0.026	11	5.5
NLI182P330K__F	33	±10%	0.029	10	5.5
NLI182P390K__F	39	±10%	0.03	9.5	5.5
NLI182P470K__F	47	±10%	0.035	8.8	5.5
NLI182P560K__F	56	±10%	0.039	8.0	5.5
NLI182P680K__F	68	±10%	0.053	7.2	4.8
NLI182P820K__F	82	±10%	0.06	6.6	4.8
NLI182P101K__F	100	±10%	0.08	6.0	4.0
NLI182P121K__F	120	±10%	0.09	5.5	4.0
NLI182P151K__F	150	±10%	0.098	4.8	4.0
NLI182P181K__F	180	±10%	0.11	4.4	4.0
NLI182P221K__F	220	±10%	0.15	4.0	2.8
NLI182P271K__F	270	±10%	0.213	3.6	2.0
NLI182P331K__F	330	±10%	0.305	3.3	1.6
NLI182P391K__F	390	±10%	0.32	3.0	1.6
NLI182P471K__F	470	±10%	0.355	2.7	1.6
NLI182P561K__F	560	±10%	0.388	2.5	1.6
NLI182P681K__F	680	±10%	0.43	2.3	1.6
NLI182P821K__F	820	±10%	0.59	2.1	1.3
NLI182P102K__F	1000	±10%	0.818	1.9	1.0
NLI182P122K__F	1200	±10%	1.14	1.7	0.8
NLI182P152K__F	1500	±10%	1.26	1.5	0.8
NLI182P182K__F	1800	±10%	1.39	1.4	0.8
NLI182P222K__F	2200	±10%	1.54	1.2	0.8

Isat ΔL -10% max., ΔT +25°C max.

* Contact NIC for other tolerance options.

_ Insert letter "U" if sleeving is required



NLI262P STANDARD VALUES (H = 21.5mm x D = 28.0mm)					
Part Number	Inductance (μH)	Inductance Tolerance*	DCR (Ω) max.	I sat (A)	Suggested Rated AC Current (A)
NLI262P3R9M_F	3.9	±20%	0.003	32	21
NLI262P4R7M_F	4.7	±20%	0.003	29	21
NLI262P5R6M_F	5.6	±20%	0.003	26	21
NLI262P6R8M_F	6.8	±20%	0.004	24	21
NLI262P8R2M_F	8.2	±20%	0.004	22	21
NLI262P100K_F	10	±10%	0.006	20	17
NLI262P120K_F	12	±10%	0.008	18	13.5
NLI262P150K_F	15	±10%	0.009	16	13.5
NLI262P180K_F	18	±10%	0.01	15	13.5
NLI262P220K_F	22	±10%	0.011	13.5	13.5
NLI262P270K_F	27	±10%	0.012	12	13.5
NLI262P330K_F	33	±10%	0.017	11	13.5
NLI262P390K_F	39	±10%	0.022	10	11.4
NLI262P470K_F	47	±10%	0.024	9.2	9.0
NLI262P560K_F	56	±10%	0.026	8.5	9.0
NLI262P680K_F	68	±10%	0.029	7.6	9.0
NLI262P820K_F	82	±10%	0.032	7.0	9.0
NLI262P101K_F	100	±10%	0.034	6.5	9.0
NLI262P121K_F	120	±10%	0.046	5.8	7.2
NLI262P151K_F	150	±10%	0.064	5.2	5.5
NLI262P181K_F	180	±10%	0.072	4.7	5.5
NLI262P221K_F	220	±10%	0.08	4.3	5.5
NLI262P271K_F	270	±10%	0.11	3.9	4.5
NLI262P331K_F	330	±10%	0.122	3.5	4.5
NLI262P391K_F	390	±10%	0.169	3.2	4.0
NLI262P471K_F	470	±10%	0.187	2.9	4.0
NLI262P561K_F	560	±10%	0.205	2.7	4.0
NLI262P681K_F	680	±10%	0.256	2.4	2.8
NLI262P821K_F	820	±10%	0.288	2.2	2.8
NLI262P102K_F	1000	±10%	0.426	2.0	2.0
NLI262P122K_F	1200	±10%	0.462	1.8	2.0
NLI262P152K_F	1500	±10%	0.518	1.6	2.0
NLI262P182K_F	1800	±10%	0.705	1.5	1.6
NLI262P222K_F	2200	±10%	1.02	1.3	1.3
NLI262P272K_F	2700	±10%	1.14	1.2	1.3
NLI262P332K_F	3300	±10%	1.27	1.1	1.3
NLI262P392K_F	3900	±10%	1.67	1.0	1.0
NLI262P472K_F	4700	±10%	1.86	0.9	1.0

I_{sat} ΔL -10% max., ΔT +25°C max.

* Contact NIC for other tolerance options.

_ Insert letter "U" if sleeving is required



NLI352P STANDARD VALUES (H = 28.0mm x D = 40.0mm)					
Part Number	Inductance (μH)	Inductance Tolerance*	DCR (Ω) max.	I sat (A)	Suggested Rated AC Current (A)
NLI352P3R9M_F	3.9	±20%	0.003	95	27
NLI352P4R7M_F	4.7	±20%	0.003	95	27
NLI352P5R6M_F	5.6	±20%	0.004	79	27
NLI352P6R8M_F	6.8	±20%	0.004	79	27
NLI352P8R2M_F	8.2	±20%	0.004	69	27
NLI352P100K_F	10	±10%	0.005	61	27
NLI352P120K_F	12	±10%	0.005	55	27
NLI352P150K_F	15	±10%	0.006	49	27
NLI352P180K_F	18	±10%	0.008	41	27
NLI352P220K_F	22	±10%	0.009	38	21
NLI352P270K_F	27	±10%	0.010	36	21
NLI352P330K_F	33	±10%	0.011	31	21
NLI352P390K_F	39	±10%	0.012	28	21
NLI352P470K_F	47	±10%	0.018	27	14.4
NLI352P560K_F	56	±10%	0.019	26	14.4
NLI352P680K_F	68	±10%	0.021	25	14.4
NLI352P820K_F	82	±10%	0.023	23	14.4
NLI352P101K_F	100	±10%	0.025	20	14.4
NLI352P121K_F	120	±10%	0.028	18	14.4
NLI352P151K_F	150	±10%	0.040	17	11.4
NLI352P181K_F	180	±10%	0.045	15	11.4
NLI352P221K_F	220	±10%	0.050	13	11.4
NLI352P271K_F	270	±10%	0.056	12	11.4
NLI352P331K_F	330	±10%	0.074	11	11.4
NLI352P391K_F	390	±10%	0.082	10	9.0
NLI352P471K_F	470	±10%	0.114	9.2	7.2
NLI352P561K_F	560	±10%	0.125	8.3	7.2
NLI352P681K_F	680	±10%	0.139	7.6	7.2
NLI352P821K_F	820	±10%	0.154	6.8	7.2
NLI352P102K_F	1000	±10%	0.216	6.2	5.5
NLI352P122K_F	1200	±10%	0.232	5.7	5.5
NLI352P152K_F	1500	±10%	0.324	5.1	4.5
NLI352P182K_F	1800	±10%	0.360	4.6	4.5
NLI352P222K_F	2200	±10%	0.494	4.2	4.0
NLI352P272K_F	2700	±10%	0.555	3.8	4.0
NLI352P332K_F	3300	±10%	0.773	3.4	2.8
NLI352P392K_F	3900	±10%	0.845	3.1	2.8
NLI352P472K_F	4700	±10%	1.14	2.9	2.0
NLI352P562K_F	5600	±10%	1.60	2.5	2.0
NLI352P682K_F	6800	±10%	1.76	2.3	1.6
NLI352P822K_F	8200	±10%	1.95	2.0	1.6
NLI352P103K_F	10000	±10%	2.76	1.8	1.3
NLI352P123K_F	12000	±10%	3.04	1.7	1.3
NLI352P153K_F	15000	±10%	3.39	1.5	1.3

Isat ΔL -10% max., ΔT +25°C max.

* Contact NIC for other tolerance options.

_ Insert letter "U" if sleeving is required

