

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

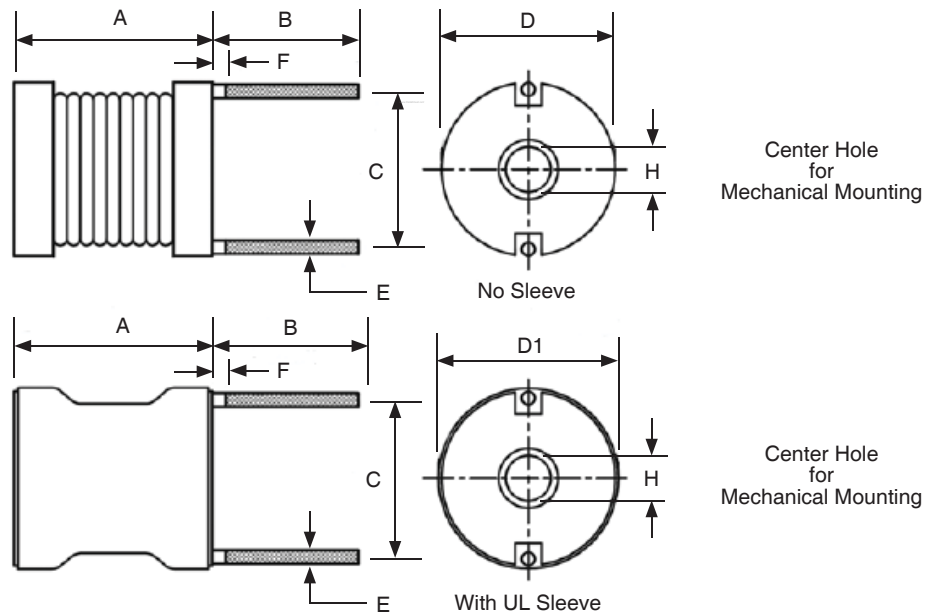
Case Code	NLI142P	NLI182P	NLI262P	NLI352P
Inductance Range (μ H)	1.0 μ H ~ 560 μ H	1.0 μ H ~ 2,200 μ H	1.0 μ H ~ 4,700 μ H	1.8 μ H ~ 15,000 μ H
Ambient Operating Temperature Range	-20°C ~ +80°C			
Maximum Component Temperature (Ambient + Self-Heating)	+??°C			
Temperature Rise at Isat	+??°C			
Inductance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

DIMENSIONS (mm)

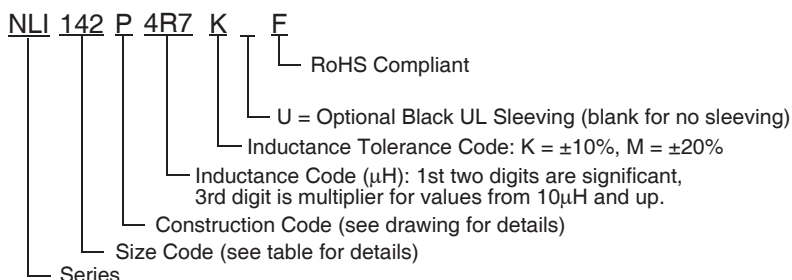
Series	A max.	B \pm 3.0	C Typ.	D max.	F max.	H min.
NLI142P	21.5	15.0	12.0	16.5	1.5	3.0
NLI182P	21.5	15.0	15.0	21.0	1.5	3.0
NLI262P	21.5	15.0	22.0	28.0	1.5	5.0
NLI352P	28.0	15.0	30.0	40.0	1.5	3.6

PACKAGING QUANTITY

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



PART NUMBER SYSTEM



NPI142P 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)
NPI142P1R0M_F	1	±20%	0.003	28	9.0
NPI142P1R2M_F	1.2	±20%	0.003	26	9.0
NPI142P1R5M_F	1.5	±20%	0.004	23	9.0
NPI142P1R8M_F	1.8	±20%	0.004	21	9.0
NPI142P2R2M_F	2.2	±20%	0.005	19	9.0
NPI142P2R7M_F	2.7	±20%	0.005	17	9.0
NPI142P3R3M_F	3.3	±20%	0.005	15	9.0
NPI142P3R9M_F	3.9	±20%	0.006	14	9.0
NPI142P4R7M_F	4.7	±20%	0.007	13	9.0
NPI142P5R6M_F	5.6	±20%	0.007	12	9.0
NPI142P6R8M_F	6.8	±20%	0.008	11	9.0
NPI142P8R2M_F	8.2	±20%	0.009	10	9.0
NPI142P100K_F	10	±10%	0.01	9.0	9.0
NPI142P120K_F	12	±10%	0.011	8.5	8.5
NPI142P150K_F	15	±10%	0.015	7.5	7.2
NPI142P180K_F	18	±10%	0.016	6.8	6.8
NPI142P220K_F	22	±10%	0.025	6.0	5.5
NPI142P270K_F	27	±10%	0.03	5.5	4.5
NPI142P330K_F	33	±10%	0.04	5.0	4.0
NPI142P390K_F	39	±10%	0.046	4.5	4.0
NPI142P470K_F	47	±10%	0.062	4.0	2.8
NPI142P560K_F	56	±10%	0.069	3.7	2.8
NPI142P680K_F	68	±10%	0.077	3.4	2.8
NPI142P820K_F	82	±10%	0.083	3.1	2.8
NPI142P101K_F	100	±10%	0.095	2.8	2.8
NPI142P121K_F	120	±10%	0.127	2.5	2.0
NPI142P151K_F	150	±10%	0.181	2.3	1.6
NPI142P181K_F	180	±10%	0.217	2.1	1.6
NPI142P221K_F	220	±10%	0.24	1.9	1.6
NPI142P271K_F	270	±10%	0.3	1.7	1.6
NPI142P331K_F	330	±10%	0.336	1.5	1.3
NPI142P391K_F	390	±10%	0.46	1.4	1.0
NPI142P471K_F	470	±10%	0.636	1.3	0.8
NPI142P561K_F	560	±10%	0.696	1.2	0.8

I_{sat} ΔL -10% max., ΔT +25°C max.

* Contact NIC for other tolerance options.

_ Insert letter "U" if sleeving is required



NPI182P 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)
NPI182P1R0M__F	1	±20%	0.003	60	11.4
NPI182P1R2M__F	1.2	±20%	0.003	54	11.4
NPI182P1R5M__F	1.5	±20%	0.003	48	11.4
NPI182P1R8M__F	1.8	±20%	0.003	44	11.4
NPI182P2R2M__F	2.2	±20%	0.004	40	11.4
NPI182P2R7M__F	2.7	±20%	0.005	36	11.4
NPI182P3R3M__F	3.3	±20%	0.005	33	11.4
NPI182P3R9M__F	3.9	±20%	0.005	30	11.4
NPI182P4R7M__F	4.7	±20%	0.005	28	11.4
NPI182P5R6M__F	5.6	±20%	0.006	25	11.4
NPI182P6R8M__F	6.8	±20%	0.007	23	11.4
NPI182P8R2M__F	8.2	±20%	0.007	21	11.4
NPI182P100K__F	10	±10%	0.009	19	11.4
NPI182P120K__F	12	±10%	0.009	17	11.4
NPI182P150K__F	15	±10%	0.013	15	9.0
NPI182P180K__F	18	±10%	0.018	14	7.2
NPI182P220K__F	22	±10%	0.019	13	7.2
NPI182P270K__F	27	±10%	0.026	11	5.5
NPI182P330K__F	33	±10%	0.029	10	5.5
NPI182P390K__F	39	±10%	0.03	9.5	5.5
NPI182P470K__F	47	±10%	0.035	8.8	5.5
NPI182P560K__F	56	±10%	0.039	8.0	5.5
NPI182P680K__F	68	±10%	0.053	7.2	4.8
NPI182P820K__F	82	±10%	0.06	6.6	4.8
NPI182P101K__F	100	±10%	0.08	6.0	4.0
NPI182P121K__F	120	±10%	0.09	5.5	4.0
NPI182P151K__F	150	±10%	0.098	4.8	4.0
NPI182P181K__F	180	±10%	0.11	4.4	4.0
NPI182P221K__F	220	±10%	0.15	4.0	2.8
NPI182P271K__F	270	±10%	0.213	3.6	2.0
NPI182P331K__F	330	±10%	0.305	3.3	1.6
NPI182P391K__F	390	±10%	0.32	3.0	1.6
NPI182P471K__F	470	±10%	0.355	2.7	1.6
NPI182P561K__F	560	±10%	0.388	2.5	1.6
NPI182P681K__F	680	±10%	0.43	2.3	1.6
NPI182P821K__F	820	±10%	0.59	2.1	1.3
NPI182P102K__F	1000	±10%	0.818	1.9	1.0
NPI182P122K__F	1200	±10%	1.14	1.7	0.8
NPI182P152K__F	1500	±10%	1.26	1.5	0.8
NPI182P182K__F	1800	±10%	1.39	1.4	0.8
NPI182P222K__F	2200	±10%	1.54	1.2	0.8

I_{sat} ΔL -10% max., ΔT +25°C max.

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NPI262P 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)
NPI262P3R9M_F	3.9	±20%	0.003	32	21
NPI262P4R7M_F	4.7	±20%	0.003	29	21
NPI262P5R6M_F	5.6	±20%	0.003	26	21
NPI262P6R8M_F	6.8	±20%	0.004	24	21
NPI262P8R2M_F	8.2	±20%	0.004	22	21
NPI262P100K_F	10	±10%	0.006	20	17
NPI262P120K_F	12	±10%	0.008	18	13.5
NPI262P150K_F	15	±10%	0.009	16	13.5
NPI262P180K_F	18	±10%	0.01	15	13.5
NPI262P220K_F	22	±10%	0.011	13.5	13.5
NPI262P270K_F	27	±10%	0.012	12	13.5
NPI262P330K_F	33	±10%	0.017	11	13.5
NPI262P390K_F	39	±10%	0.022	10	11.4
NPI262P470K_F	47	±10%	0.024	9.2	9.0
NPI262P560K_F	56	±10%	0.026	8.5	9.0
NPI262P680K_F	68	±10%	0.029	7.6	9.0
NPI262P820K_F	82	±10%	0.032	7.0	9.0
NPI262P101K_F	100	±10%	0.034	6.5	9.0
NPI262P121K_F	120	±10%	0.046	5.8	7.2
NPI262P151K_F	150	±10%	0.064	5.2	5.5
NPI262P181K_F	180	±10%	0.072	4.7	5.5
NPI262P221K_F	220	±10%	0.08	4.3	5.5
NPI262P271K_F	270	±10%	0.11	3.9	4.5
NPI262P331K_F	330	±10%	0.122	3.5	4.5
NPI262P391K_F	390	±10%	0.169	3.2	4.0
NPI262P471K_F	470	±10%	0.187	2.9	4.0
NPI262P561K_F	560	±10%	0.205	2.7	4.0
NPI262P681K_F	680	±10%	0.256	2.4	2.8
NPI262P821K_F	820	±10%	0.288	2.2	2.8
NPI262P102K_F	1000	±10%	0.426	2.0	2.0
NPI262P122K_F	1200	±10%	0.462	1.8	2.0
NPI262P152K_F	1500	±10%	0.518	1.6	2.0
NPI262P182K_F	1800	±10%	0.705	1.5	1.6
NPI262P222K_F	2200	±10%	1.02	1.3	1.3
NPI262P272K_F	2700	±10%	1.14	1.2	1.3
NPI262P332K_F	3300	±10%	1.27	1.1	1.3
NPI262P392K_F	3900	±10%	1.67	1.0	1.0
NPI262P472K_F	4700	±10%	1.86	0.9	1.0

I_{sat} ΔL -10% max., ΔT +25°C max.

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NPI352P 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)
NPI352P3R9M _ F	3.9	±20%	0.003	95	27
NPI352P4R7M _ F	4.7	±20%	0.003	95	27
NPI352P5R6M _ F	5.6	±20%	0.004	79	27
NPI352P6R8M _ F	6.8	±20%	0.004	79	27
NPI352P8R2M _ F	8.2	±20%	0.004	69	27
NPI352P100K _ F	10	±10%	0.005	61	27
NPI352P120K _ F	12	±10%	0.005	55	27
NPI352P150K _ F	15	±10%	0.006	49	27
NPI352P180K _ F	18	±10%	0.008	41	27
NPI352P220K _ F	22	±10%	0.009	38	21
NPI352P270K _ F	27	±10%	0.010	36	21
NPI352P330K _ F	33	±10%	0.011	31	21
NPI352P390K _ F	39	±10%	0.012	28	21
NPI352P470K _ F	47	±10%	0.018	27	14.4
NPI352P560K _ F	56	±10%	0.019	26	14.4
NPI352P680K _ F	68	±10%	0.021	25	14.4
NPI352P820K _ F	82	±10%	0.023	23	14.4
NPI352P101K _ F	100	±10%	0.025	20	14.4
NPI352P121K _ F	120	±10%	0.028	18	14.4
NPI352P151K _ F	150	±10%	0.040	17	11.4
NPI352P181K _ F	180	±10%	0.045	15	11.4
NPI352P221K _ F	220	±10%	0.050	13	11.4
NPI352P271K _ F	270	±10%	0.056	12	11.4
NPI352P331K _ F	330	±10%	0.074	11	11.4
NPI352P391K _ F	390	±10%	0.082	10	9.0
NPI352P471K _ F	470	±10%	0.114	9.2	7.2
NPI352P561K _ F	560	±10%	0.125	8.3	7.2
NPI352P681K _ F	680	±10%	0.139	7.6	7.2
NPI352P821K _ F	820	±10%	0.154	6.8	7.2
NPI352P102K _ F	1000	±10%	0.216	6.2	5.5
NPI352P122K _ F	1200	±10%	0.232	5.7	5.5
NPI352P152K _ F	1500	±10%	0.324	5.1	4.5
NPI352P182K _ F	1800	±10%	0.360	4.6	4.5
NPI352P222K _ F	2200	±10%	0.494	4.2	4.0
NPI352P272K _ F	2700	±10%	0.555	3.8	4.0
NPI352P332K _ F	3300	±10%	0.773	3.4	2.8
NPI352P392K _ F	3900	±10%	0.845	3.1	2.8
NPI352P472K _ F	4700	±10%	1.14	2.9	2.0
NPI352P562K _ F	5600	±10%	1.60	2.5	2.0
NPI352P682K _ F	6800	±10%	1.76	2.3	1.6
NPI352P822K _ F	8200	±10%	1.95	2.0	1.6
NPI352P103K _ F	10000	±10%	2.76	1.8	1.3
NPI352P123K _ F	12000	±10%	3.04	1.7	1.3
NPI352P153K _ F	15000	±10%	3.39	1.5	1.3

Isat ΔL -10% max., ΔT +25°C max.

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