

## FEATURES

- RADIAL LEADED POWER INDUCTOR
- HIGH SATURATION CURRENT (UP TO 95 AMPS)
- WIDE VALUE RANGE 1.0 $\mu$ H ~ 15,000 $\mu$ 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

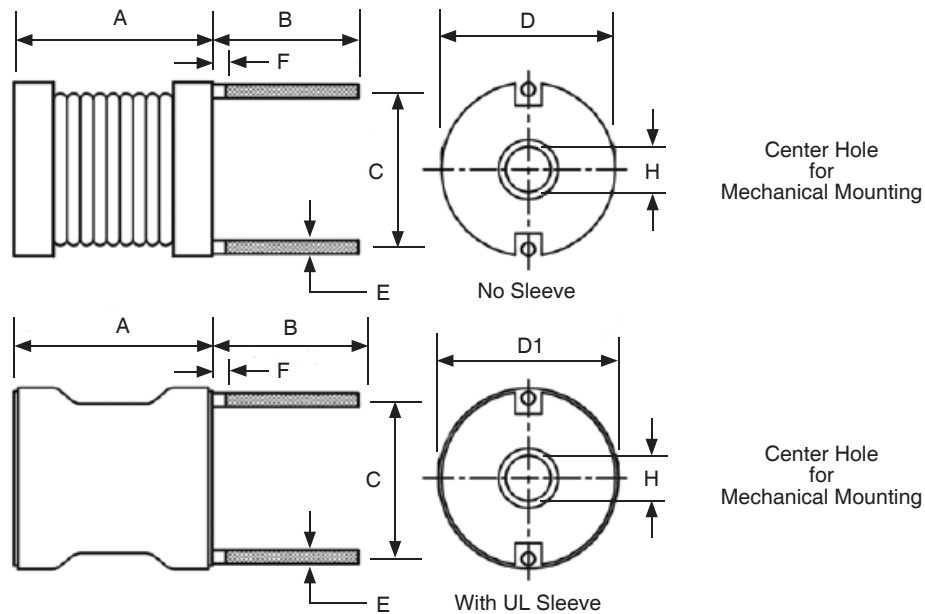
Case Code	NLI142P	NLI182P	NLI262P	NLI352P
Inductance Range ( $\mu$ H)	1.0 $\mu$ H ~ 560 $\mu$ H	1.0 $\mu$ H ~ 2,200 $\mu$ H	1.0 $\mu$ H ~ 4,700 $\mu$ H	1.8 $\mu$ H ~ 15,000 $\mu$ H
Ambient Operating Temperature Range	-20°C ~ +80°C			
Maximum Component Temperature (Ambient + Self-Heating)	+??°C			
Temperature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

## DIMENSIONS (mm)

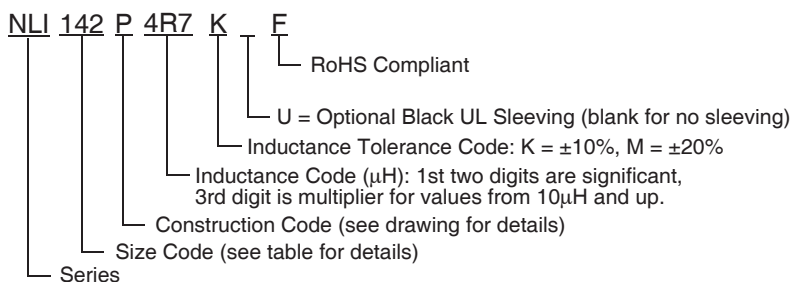
Series	A max.	B $\pm$ 3.0	C Typ.	D max.	F max.	H min.
NLI142P	21.5	15.0	12.0	16.5	1.5	3.0
NLI182P	21.5	15.0	15.0	21.0	1.5	3.0
NLI262P	21.5	15.0	22.0	28.0	1.5	5.0
NLI352P	28.0	15.0	30.0	40.0	1.5	3.6

## 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<sub>sat</sub> 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<sub>sat</sub> 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<sub>sat</sub> 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

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