

FEATURES

- RADIAL LEADED POWER INDUCTOR
- WIRE WOUND CONSTRUCTION
- WIDE VALUE RANGE 1.0 μ H ~ 330 μ H
- AVAILABLE WITH HIGH TEMPERATURE SLEEVE
- FIVE CASE SIZES (6.5X6.5mm ~ 11X15.5mm)
- BULK PACKAGING ONLY

RoHS Compliant
includes all homogeneous materials

*See Part Number System for Details

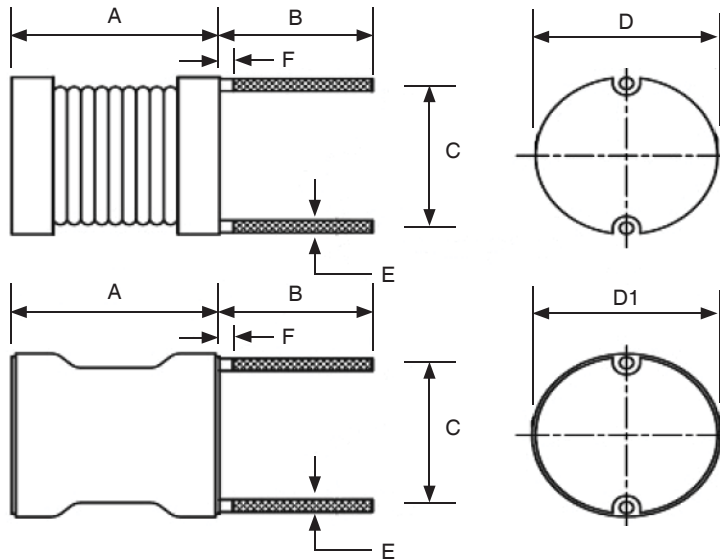


CHARACTERISTICS

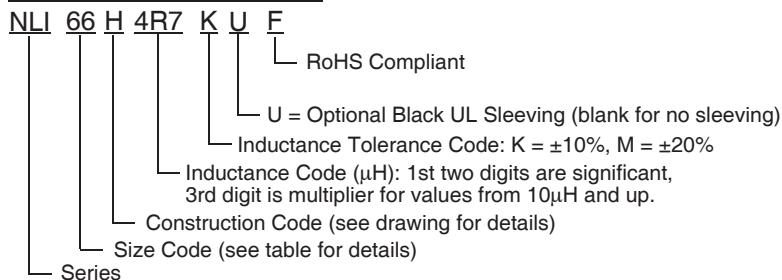
Case Code	NLI66H	NLI77H	NLI87H	NLI101H	NLI121H
Inductance Range (μ H)	1.0 μ H ~ 4.7 μ H	1.0 μ H ~ 22 μ H	2.2 μ H ~ 22 μ H	3.3 μ H ~ 100 μ H	10 μ H ~ 330 μ H
Ambient Operating Temperature Range	-20°C ~ +80°C				
Maximum Component Temperature (Ambient + Self-Heating)	+105°C				
Temperature Rise at Irms	+20°C				
Inductance Change at Isat	-20%				
Inductance Tolerance	K (\pm 10%), M (\pm 20%)				

DIMENSIONS (mm)

Series	A max.	B	C	D max. (Without Sleeve)	D1 max. (With Sleeve)	E	F max.
NLI66H	6.5	5.0 \pm 1.0	5.0 \pm 1.0	6.5	7.0	See Specifications Tables	1.5
NLI77H	7.5	5.0 \pm 1.0	6.0 \pm 1.0	7.5	8.0		1.5
NLI87H	7.5	5.0 \pm 1.0	6.0 \pm 1.0	8.5	9.0		1.5
NLI101H	10.5	10.0 \pm 2.0	8.0 \pm 1.0	11.0	11.5		1.5
NLI121H	15.5	10.0 \pm 2.0	11.0 \pm 1.0	15.0	15.5		1.5



PART NUMBER SYSTEM



NPI66H STANDARD VALUES (H = 6.5mm x D = 6.5mm)									
Part Number	Inductance (μH)	Inductance Tolerance*	Q min.	Q Freq.	SRF (MHz) min.	DCR (Ω) max.	I sat (A)	I rms (A)	Dim. E (ref.)
NPI66H1R0M_F	1	±20%	20	7.96MHz	100	0.008	6	4.3	0.6
NPI66H1R5M_F	1.5	±20%	20	7.96MHz	70	0.009	5	3.7	0.55
NPI66H2R2M_F	2.2	±20%	20	7.96MHz	60	0.013	4	3.2	0.55
NPI66H3R3M_F	3.3	±20%	20	7.96MHz	50	0.018	3.2	2.7	0.5
NPI66H4R7M_F	4.7	±20%	20	7.96MHz	40	0.024	2.7	2.4	0.5

DC I maximum +25°C temperature rise, ΔL -20% max.

* Contact NIC for other tolerance options. _ Add the letter "U" if sleeving is required.

NPI77H STANDARD VALUES (H = 7.5mm x D = 7.5mm)									
Part Number	Inductance (μH)	Inductance Tolerance*	Q min.	Q Freq.	SRF (MHz) min.	DCR (Ω) max.	I sat (A)	I rms (A)	Dim. E (ref.)
NPI77H1R0M_F	1	±20%	10	7.96MHz	70	0.006	6.6	5	0.7
NPI77H1R5M_F	1.5	±20%	10	7.96MHz	56	0.008	5.4	4.3	0.7
NPI77H2R2M_F	2.2	±20%	10	7.96MHz	45	0.011	4	3.7	0.7
NPI77H3R3M_F	3.3	±20%	10	7.96MHz	36	0.018	3.6	2.9	0.55
NPI77H4R7M_F	4.7	±20%	10	7.96MHz	29	0.022	3.1	2.6	0.5
NPI77H6R8M_F	6.8	±20%	10	7.96MHz	24	0.028	2.5	2.3	0.5
NPI77H100K_F	10	±10%	20	2.52MHz	19	0.043	2.1	1.9	0.45
NPI77H150K_F	15	±10%	20	2.52MHz	15	0.056	1.7	1.6	0.45
NPI77H220K_F	22	±10%	20	2.52MHz	12	0.086	1.4	1.3	0.4

DC I maximum +25°C temperature rise, ΔL -20% max.

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NPI87H STANDARD VALUES (H = 7.5mm x D = 8.5mm)									
Part Number	Inductance (μH)	Inductance Tolerance*	Q min.	Q Freq.	SRF (MHz) min.	DCR (Ω) max.	I sat (A)	I rms (A)	Dim. E (ref.)
NPI87H2R2M_F	2.2	±20%	10	7.96MHz	60	0.011	5.5	4	0.7
NPI87H3R3M_F	3.3	±20%	10	7.96MHz	38	0.013	3.8	3.4	0.7
NPI87H4R7M_F	4.7	±20%	10	7.96MHz	30	0.017	3.7	3	0.6
NPI87H6R8M_F	6.8	±20%	10	7.96MHz	24	0.023	2.8	2.6	0.55
NPI87H100K_F	10	±10%	20	2.52MHz	19	0.031	2.5	2.2	0.55
NPI87H150K_F	15	±10%	20	2.52MHz	15	0.042	2	1.9	0.5
NPI87H220K_F	22	±10%	20	2.52MHz	12	0.07	1.6	1.5	0.45

DC I maximum +25°C temperature rise, ΔL -20% max.

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NPI101H STANDARD VALUES (H = 10.5mm x D = 11.0mm)									
Part Number	Inductance (μH)	Inductance Tolerance*	Q min.	Q Freq.	SRF (MHz) min.	DCR (Ω) max.	I sat (A)	I rms (A)	Dim. E (ref.)
NPI101H3R3M_F	3.3	±20%	10	7.96MHz	36	0.01	8.8	5.9	0.8
NPI101H4R7M_F	4.7	±20%	10	7.96MHz	28	0.015	7.2	4.8	0.8
NPI101H6R8M_F	6.8	±20%	10	7.96MHz	18	0.016	6.1	4.6	0.8
NPI101H100M_F	10	±20%	20	2.52MHz	16	0.025	5	3.7	0.8
NPI101H150K_F	15	±10%	20	2.52MHz	12	0.029	4.2	3.4	0.8
NPI101H220K_F	22	±10%	20	2.52MHz	9.5	0.04	3.4	2.9	0.7
NPI101H330K_F	33	±10%	30	2.52MHz	7	0.062	2.8	2.3	0.6
NPI101H470K_F	47	±10%	30	2.52MHz	5.8	0.075	2.3	2.1	0.6
NPI101H680K_F	68	±10%	20	2.52MHz	4.7	0.13	1.9	1.6	0.5
NPI101H101K_F	100	±10%	20	796KHz	3.8	0.16	1.6	1.4	0.5

DC I maximum +25°C temperature rise, ΔL -20% max.

* Contact NIC for other tolerance options. _ Add the letter "U" if sleeving is required.



NPI121H STANDARD VALUES (H = 15.5mm x D = 15.0mm)									
Part Number	Inductance (μH)	Inductance Tolerance*	Q min.	Q Freq.	SRF (MHz) min.	DCR (Ω) max.	I sat (A)	I rms (A)	Dim. E (ref.)
NPI121H100M_F	10	±20%	20	2.52MHz	19	0.023	8	5.1	0.9
NPI121H150K_F	15	±10%	20	2.52MHz	12	0.028	6.5	4.5	0.9
NPI121H220K_F	22	±10%	20	2.52MHz	7.6	0.035	5.5	4.2	0.8
NPI121H330K_F	33	±10%	20	2.52MHz	6.9	0.043	4.5	3.7	0.7
NPI121H470K_F	47	±10%	20	2.52MHz	5.6	0.052	3.6	3.4	0.7
NPI121H680K_F	68	±10%	20	2.52MHz	4.4	0.068	3.1	3	0.7
NPI121H101K_F	100	±10%	20	796KHz	3.3	0.097	2.6	2.5	0.6
NPI121H151K_F	150	±10%	20	796KHz	2.6	0.14	2.1	2.1	0.55
NPI121H221K_F	220	±10%	20	796KHz	2.2	0.2	1.7	1.7	0.5
NPI121H331K_F	330	±10%	20	796KHz	1.8	0.3	1.4	1.4	0.45

DC I maximum +25°C temperature rise, ΔL -20% max.

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PACKAGING QUANTITY

Series	Bulk (per bag)
NLI66H	100
NLI77H	100
NLI87H	100
NLI101H	100
NLI121H	80

