

NPIS-LS Series

Resin Shielded Power Inductors; Extended Range



FEATURES

- SHIELDED POWER INDUCTOR
- HIGH CURRENT (UP TO 24 AMPS)
- SURFACE MOUNTABLE CONSTRUCTION
- HIGH INDUCTANCE (UP TO 680 μ H)
- TAPED AND REELED FOR AUTOMATIC INSERTION

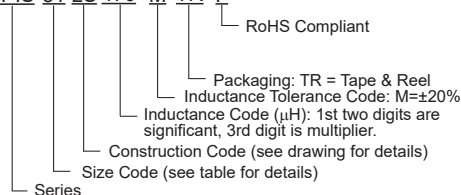


CHARACTERISTICS

Case Size	NPIS20LS	NPIS21LS	NPIS31LS	NPIS32LS	NPIS35LS
Inductance Range	0.47 ~ 10 μ H	0.47 ~ 22 μ H	1.0 ~ 62 μ H	0.82 ~ 100 μ H	1.0 ~ 150 μ H
Case Size	NPIS40LS	NPIS41LS	NPIS48LS	NPIS42LS	NPIS43LS
Inductance Range	1.0 ~ 22 μ H	0.82 ~ 100 μ H	0.47 ~ 220 μ H	0.24 ~ 220 μ H	0.68 ~ 680 μ H
Case Size	NPIS51LS	NPIS52LS	NPIS54LS	NPIS55LS	NPIS62LS
Inductance Range	1.0 ~ 22 μ H	0.22 ~ 200 μ H	0.22 ~ 680 μ H	2.2 ~ 22 μ H	0.50 ~ 330 μ H
Case Size	NPIS63LS	NPIS65LS	NPIS84LS	NPIS86LS	NPIS87LS
Inductance Range	0.82 ~ 400 μ H	0.47 ~ 680 μ H	0.82 ~ 470 μ H	680 μ H	0.68 ~ 680 μ H
Ambient Operating Temperature Range	-40°C ~ +125°C (including self-heating)*				
Temperature Rise at I _{rms}	Maximum +40°C Temperature Rise				
Inductance Change at I _{sat}	Maximum -30% Inductance Drop From Initial Measured Value				
Inductance Tolerance	±20% (M), ±30% (Y)				
Resistance to Solder Heat	+260°C for 10 seconds				

PART NUMBER SYSTEM

NPIS 31 LS 470 M TR E

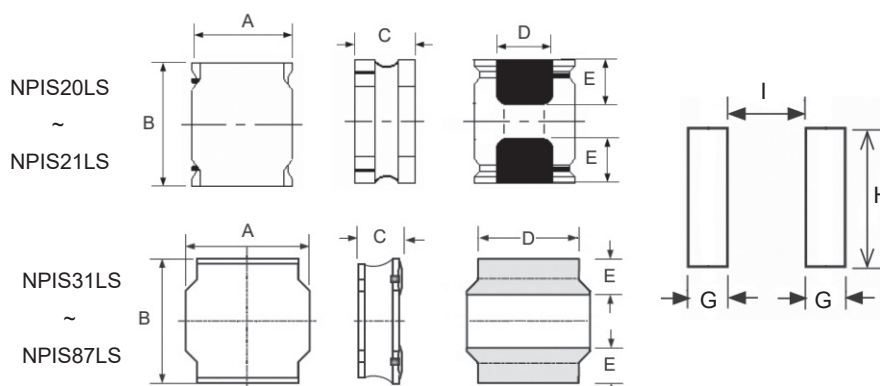


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DIMENSIONS (mm)

Series	A	B	C	D	E	G	I	H
NPIS20LS	2.5 ± 0.1	2.0 ± 0.1	1.0 Max.	2.0 ± 0.2	0.80 ± 0.2	0.85	0.80	2.0
NPIS21LS	2.5 ± 0.1	2.0 ± 0.1	1.2 Max.	2.0 ± 0.2	0.80 ± 0.2			
NPIS31LS	3.0 ± 0.2	3.0 ± 0.2	1.0 Max.	2.5 ± 0.2	0.75 ± 0.2	0.80	1.5	2.7
NPIS32LS	3.0 ± 0.2	3.0 ± 0.2	1.2 Max.	2.5 ± 0.2	0.75 ± 0.2			
NPIS35LS	3.0 ± 0.2	3.0 ± 0.2	1.5 Max.	2.5 ± 0.2	0.75 ± 0.2	1.1	1.9	3.7
NPIS40LS	4.0 ± 0.2	4.0 ± 0.2	1.0 Max.	3.3 ± 0.2	0.95 ± 0.2			
NPIS41LS	4.0 ± 0.2	4.0 ± 0.2	1.2 Max.	3.3 ± 0.2	0.95 ± 0.2			
NPIS48LS	4.0 ± 0.2	4.0 ± 0.2	1.8 Max.	3.3 ± 0.2	0.95 ± 0.2			
NPIS42LS	4.0 ± 0.2	4.0 ± 0.2	2.0 Max.	3.3 ± 0.2	0.95 ± 0.2	1.4	2.3	4.2
NPIS43LS	4.0 ± 0.2	4.0 ± 0.2	3.0 Max.	3.3 ± 0.2	0.95 ± 0.2			
NPIS51LS	5.0 ± 0.2	5.0 ± 0.2	1.2 Max.	4.0 ± 0.2	1.25 ± 0.2			
NPIS52LS	5.0 ± 0.2	5.0 ± 0.2	2.0 Max.	4.0 ± 0.2	1.25 ± 0.2			
NPIS54LS	5.0 ± 0.2	5.0 ± 0.2	4.0 Max.	4.5 ± 0.2	1.30 ± 0.2	1.7	2.8	5.7
NPIS55LS	5.0 ± 0.2	5.0 ± 0.2	4.5 Max.	4.5 ± 0.2	1.30 ± 0.2			
NPIS62LS	6.0 ± 0.3	6.0 ± 0.3	2.0 Max.	4.9 ± 0.3	1.55 ± 0.3			
NPIS63LS	6.0 ± 0.3	6.0 ± 0.3	2.8 Max.	4.9 ± 0.3	1.55 ± 0.3			
NPIS65LS	6.0 ± 0.3	6.0 ± 0.3	4.5 Max.	4.9 ± 0.3	1.55 ± 0.3	2.2	3.8	7.5
NPIS84LS	8.0 ± 0.3	8.0 ± 0.3	4.2 Max.	6.3 ± 0.3	2.00 ± 0.3			
NPIS86LS	8.0 ± 0.3	8.0 ± 0.3	6.0 Max.	6.3 ± 0.3	2.00 ± 0.3			
NPIS87LS	8.0 ± 0.3	8.0 ± 0.3	6.5 Max.	6.3 ± 0.3	2.00 ± 0.3			



NPIS-LS Series

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NPIS20LS Size

Series	Standard Values - Case Size 21 (2.0 x 2.5 x 1.0mm)						
	Inductance (μH)	Tolerance	Test Conditions	Max. DCR (Ω)	Max. Isat (Amps)	Max. Irms (Amps)	SRF
NPIS20LSR47YTRF	0.47	±30%	100KHz, 1V	0.056	2.50	2.35	206
NPIS20LSR56YTRF	0.56	±30%	100KHz, 1V	0.072	2.90	2.00	160
NPIS20LSR68YTRF	0.68	±30%	100KHz, 1V	0.074	2.20	2.00	129
NPIS20LS1R0YTRF	1.0	±30%	100KHz, 1V	0.108	1.85	1.65	100
NPIS20LS1R5YTRF	1.5	±30%	100KHz, 1V	0.182	1.80	1.30	81
NPIS20LS2R2YTRF	2.2	±30%	100KHz, 1V	0.209	1.20	1.20	61
NPIS20LS3R3MTRF	3.3	±20%	100KHz, 1V	0.328	1.05	0.90	47
NPIS20LS4R7MTRF	4.7	±20%	100KHz, 1V	0.563	0.95	0.70	42
NPIS20LS5R6MTRF	5.6	±20%	100KHz, 1V	0.563	0.80	0.73	35
NPIS20LS6R8MTRF	6.8	±20%	100KHz, 1V	0.896	0.78	0.59	31
NPIS20LS100MTRF	10	±20%	100KHz, 1V	1.092	0.65	0.50	27

Maximum +40°C temperature rise at Irms. Maximum -30% inductance drop from initial measured value at Isat.

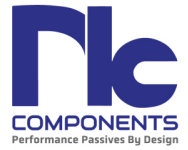
NPIS21LS Size

Series	Standard Values - Case Size 21 (2.0 x 2.5 x 1.2mm)						
	Inductance (μH)	Tolerance	Test Conditions	Max. DCR (Ω)	Max. Isat (Amps)	Max. Irms (Amps)	SRF
NPIS21LSR47YTRF	0.47	±30%	100KHz, 1V	0.061	3.82	2.15	160
NPIS21LSR68YTRF	0.68	±30%	100KHz, 1V	0.074	3.28	1.95	140
NPIS21LS1R0YTRF	1.0	±30%	100KHz, 1V	0.09	2.59	1.93	110
NPIS21LS1R2YTRF	1.2	±30%	100KHz, 1V	0.129	2.38	1.46	100
NPIS21LS1R5MTRF	1.5	±20%	100KHz, 1V	0.147	2.24	1.40	97
NPIS21LS2R2MTRF	2.2	±20%	100KHz, 1V	0.216	1.85	1.15	69
NPIS21LS2R7MTRF	2.7	±20%	100KHz, 1V	0.239	1.72	1.09	63
NPIS21LS3R3MTRF	3.3	±20%	100KHz, 1V	0.264	1.61	1.04	62
NPIS21LS3R6MTRF	3.6	±20%	100KHz, 1V	0.348	1.46	0.90	53
NPIS21LS4R3MTRF	4.3	±20%	100KHz, 1V	0.377	1.37	0.87	51
NPIS21LS4R7MTRF	4.7	±20%	100KHz, 1V	0.377	1.12	0.84	47
NPIS21LS5R1MTRF	5.1	±20%	100KHz, 1V	0.500	1.23	0.75	44
NPIS21LS5R6MTRF	5.6	±20%	100KHz, 1V	0.538	1.11	0.73	38
NPIS21LS6R2MTRF	6.2	±20%	100KHz, 1V	0.542	1.03	0.73	38
NPIS21LS6R8MTRF	6.8	±20%	100KHz, 1V	0.581	0.98	0.69	38
NPIS21LS7R5MTRF	7.5	±20%	100KHz, 1V	0.611	0.97	0.68	35
NPIS21LS8R2MTRF	8.2	±20%	100KHz, 1V	0.658	0.98	0.65	36
NPIS21LS9R1MTRF	9.1	±20%	100KHz, 1V	0.690	0.91	0.62	34
NPIS21LS100MTRF	10	±20%	100KHz, 1V	0.690	0.79	0.62	34
NPIS21LS120MTRF	12	±20%	100KHz, 1V	1.075	0.78	0.51	28
NPIS21LS150MTRF	15	±20%	100KHz, 1V	1.591	0.68	0.42	25
NPIS21LS220MTRF	22	±20%	100KHz, 1V	1.976	0.53	0.38	20

Maximum +40°C temperature rise at Irms. Maximum -30% inductance drop from initial measured value at Isat.

NPIS-LS Series

Resin Shielded Power Inductors; Extended Range



NPIS31LS Size

Series	Standard Values - Case Size 31 (3.0 x 3.0 x 1.0mm)						
	Inductance (μH)	Tolerance	Test Conditions	Max. DCR (Ω)	Max. Isat (Amps)	Max. Irms (Amps)	SRF
NPIS31LS1R0YTRF	1.0	±30%	100KHz, 1V	0.085	1.40	1.45	180
NPIS31LS1R2YTRF	1.2	±30%	100KHz, 1V	0.085	1.25	1.45	137
NPIS31LS1R5YTRF	1.5	±30%	100KHz, 1V	0.104	1.27	1.30	120
NPIS31LS2R2YTRF	2.2	±30%	100KHz, 1V	0.143	1.15	1.09	100
NPIS31LS2R7YTRF	2.7	±30%	100KHz, 1V	0.169	1.00	1.02	90
NPIS31LS3R3YTRF	3.3	±30%	100KHz, 1V	0.189	0.97	0.96	74
NPIS31LS3R6MTRF	3.6	±20%	100KHz, 1V	0.215	0.95	0.90	67
NPIS31LS4R7MTRF	4.7	±20%	100KHz, 1V	0.293	0.75	0.77	59
NPIS31LS5R6MTRF	5.6	±20%	100KHz, 1V	0.322	0.58	0.70	40
NPIS31LS6R8MTRF	6.8	±20%	100KHz, 1V	0.397	0.55	0.66	42
NPIS31LS8R2MTRF	8.2	±20%	100KHz, 1V	0.520	0.55	0.58	23
NPIS31LS100MTRF	10	±20%	100KHz, 1V	0.520	0.55	0.58	39
NPIS31LS120MTRF	12	±20%	100KHz, 1V	0.657	0.43	0.52	36
NPIS31LS150MTRF	15	±20%	100KHz, 1V	0.793	0.42	0.47	30
NPIS31LS220MTRF	22	±20%	100KHz, 1V	1.209	0.35	0.38	28
NPIS31LS270MTRF	27	±20%	100KHz, 1V	1.404	0.30	0.35	25
NPIS31LS330MTRF	33	±20%	100KHz, 1V	2.015	0.29	0.30	18
NPIS31LS390MTRF	39	±20%	100KHz, 1V	2.275	0.28	0.28	18
NPIS31LS430MTRF	43	±20%	100KHz, 1V	2.340	0.23	0.27	18
NPIS31LS470MTRF	47	±20%	100KHz, 1V	2.535	0.22	0.26	18
NPIS31LS510MTRF	51	±20%	100KHz, 1V	2.860	0.21	0.25	18
NPIS31LS560MTRF	56	±20%	100KHz, 1V	3.016	0.21	0.24	16

Maximum +40°C temperature rise at Irms. Maximum -30% inductance drop from initial measured value at Isat.

NPIS-LS Series

Resin Shielded Power Inductors; Extended Range



NPIS32LS Size

Series	Standard Values - Case Size 31 (3.0 x 3.0 x 1.2mm)						
	Inductance (μH)	Tolerance	Test Conditions	Max. DCR (Ω)	Max. Isat (Amps)	Max. Irms (Amps)	SRF
NPIS32LSR22YTRF	0.22	±30%	100KHz, 1V	0.022	5.30	3.00	321
NPIS32LSR82YTRF	0.82	±30%	100KHz, 1V	0.039	2.05	2.47	180
NPIS32LS1R0YTRF	1.0	±30%	100KHz, 1V	0.052	1.87	2.20	120
NPIS32LS1R2YTRF	1.2	±30%	100KHz, 1V	0.059	2.22	2.01	120
NPIS32LS1R5YTRF	1.5	±30%	100KHz, 1V	0.059	1.62	2.01	110
NPIS32LS1R8YTRF	1.8	±30%	100KHz, 1V	0.082	1.30	1.65	90
NPIS32LS2R2YTRF	2.2	±30%	100KHz, 1V	0.098	1.20	1.55	84
NPIS32LS2R4YTRF	2.4	±30%	100KHz, 1V	0.088	1.15	1.60	100
NPIS32LS2R7MTRF	2.7	±20%	100KHz, 1V	0.110	1.14	1.48	65
NPIS32LS3R3MTRF	3.3	±20%	100KHz, 1V	0.130	1.05	1.36	64
NPIS32LS3R6MTRF	3.6	±20%	100KHz, 1V	0.130	1.05	1.36	36
NPIS32LS3R9MTRF	3.9	±20%	100KHz, 1V	0.189	1.00	1.24	61
NPIS32LS4R7MTRF	4.7	±20%	100KHz, 1V	0.156	0.90	1.24	61
NPIS32LS6R8MTRF	6.8	±20%	100KHz, 1V	0.247	0.75	0.98	61
NPIS32LS100MTRF	10	±20%	100KHz, 1V	0.345	0.60	0.83	42
NPIS32LS120MTRF	12	±20%	100KHz, 1V	0.449	0.48	0.73	32
NPIS32LS150MTRF	15	±20%	100KHz, 1V	0.468	0.45	0.71	27
NPIS32LS180MTRF	18	±20%	100KHz, 1V	0.709	0.43	0.58	25
NPIS32LS220MTRF	22	±20%	100KHz, 1V	0.839	0.42	0.53	23
NPIS32LS270MTRF	27	±20%	100KHz, 1V	1.131	0.35	0.47	21
NPIS32LS330MTRF	33	±20%	100KHz, 1V	1.138	0.36	0.46	18
NPIS32LS360MTRF	36	±20%	100KHz, 1V	1.235	0.34	0.44	18
NPIS32LS390MTRF	39	±20%	100KHz, 1V	1.729	0.30	0.37	18
NPIS32LS470MTRF	47	±20%	100KHz, 1V	1.885	0.27	0.35	14
NPIS32LS560MTRF	56	±20%	100KHz, 1V	1.794	0.26	0.28	9
NPIS32LS680MTRF	68	±20%	100KHz, 1V	2.171	0.24	0.33	7
NPIS32LS820MTRF	82	±20%	100KHz, 1V	3.302	0.17	0.27	7
NPIS32LS101MTRF	100	±20%	100KHz, 1V	3.718	0.21	0.25	5

Maximum +40°C temperature rise at Irms. Maximum -30% inductance drop from initial measured value at Isat.

NPIS-LS Series

Resin Shielded Power Inductors; Extended Range



NPIS35LS Size

Series	Standard Values - Case Size 31 (3.0 x 3.0 x 1.5mm)						
	Inductance (μH)	Tolerance	Test Conditions	Max. DCR (Ω)	Max. Isat (Amps)	Max. Irms (Amps)	SRF
NPIS35LSR50YTRF	0.5	±30%	100KHz, 1V	0.039	3.90	2.60	162
NPIS35LS1R0YTRF	1.0	±30%	100KHz, 1V	0.039	2.32	2.35	150
NPIS35LS1R2YTRF	1.2	±30%	100KHz, 1V	0.052	2.21	1.95	110
NPIS35LS1R5YTRF	1.5	±30%	100KHz, 1V	0.065	2.30	1.70	100
NPIS35LS1R8YTRF	1.8	±30%	100KHz, 1V	0.065	1.75	1.70	92
NPIS35LS2R2YTRF	2.2	±30%	100KHz, 1V	0.078	1.60	1.60	86
NPIS35LS2R7YTRF	2.7	±30%	100KHz, 1V	0.098	1.52	1.43	64
NPIS35LS3R3MTRF	3.3	±20%	100KHz, 1V	0.104	1.32	1.36	68
NPIS35LS3R6MTRF	3.6	±20%	100KHz, 1V	0.137	1.28	1.20	59
NPIS35LS3R9MTRF	3.9	±20%	100KHz, 1V	0.137	1.20	1.20	47
NPIS35LS4R3MTRF	4.3	±20%	100KHz, 1V	0.15	1.20	1.14	53
NPIS35LS4R7MTRF	4.7	±20%	100KHz, 1V	0.163	1.10	1.09	46
NPIS35LS5R1MTRF	5.1	±20%	100KHz, 1V	0.173	1.00	1.05	49
NPIS35LS6R2MTRF	6.2	±20%	100KHz, 1V	0.254	1.00	0.86	46
NPIS35LS6R8MTRF	6.8	±20%	100KHz, 1V	0.26	0.85	0.85	39
NPIS35LS100MTRF	10	±20%	100KHz, 1V	0.325	0.72	0.77	41
NPIS35LS120MTRF	12	±20%	100KHz, 1V	0.416	0.70	0.68	32
NPIS35LS150MTRF	15	±20%	100KHz, 1V	0.455	0.66	0.65	30
NPIS35LS180MTRF	18	±20%	100KHz, 1V	0.559	0.56	0.59	23
NPIS35LS220MTRF	22	±20%	100KHz, 1V	0.598	0.52	0.57	23
NPIS35LS270MTRF	27	±20%	100KHz, 1V	0.949	0.48	0.45	22
NPIS35LS330MTRF	33	±20%	100KHz, 1V	1.066	0.44	0.43	20
NPIS35LS390MTRF	39	±20%	100KHz, 1V	1.294	0.41	0.39	14
NPIS35LS430MTRF	43	±20%	100KHz, 1V	1.378	0.37	0.37	16
NPIS35LS470MTRF	47	±20%	100KHz, 1V	1.625	0.35	0.35	14
NPIS35LS560MTRF	56	±20%	100KHz, 1V	1.664	0.33	0.34	13
NPIS35LS620MTRF	62	±20%	100KHz, 1V	2.093	0.30	0.30	13
NPIS35LS680MTRF	68	±20%	100KHz, 1V	3.510	0.28	0.23	11
NPIS35LS101MTRF	100	±20%	100KHz, 1V	4.043	0.23	0.21	7.2
NPIS35LS151MTRF	150	±20%	100KHz, 1V	4.940	0.18	0.19	4.5

Maximum +40°C temperature rise at Irms. Maximum -30% inductance drop from initial measured value at Isat.

NPIS-LS Series

Resin Shielded Power Inductors; Extended Range



NPIS40LS Size

Series	Standard Values - Case Size 40 (4.0 x 4.0 x 1.0mm)						
	Inductance (μH)	Tolerance	Test Conditions	Max. DCR (Ω)	Max. Isat (Amps)	Max. Irms (Amps)	SRF
NPIS40LS1R0YTRF	1.0	±30%	100KHz, 1V	0.067	2.00	1.90	104
NPIS40LS1R5YTRF	1.5	±30%	100KHz, 1V	0.084	1.68	1.70	71
NPIS40LS2R2MTRF	2.2	±20%	100KHz, 1V	0.102	1.20	1.50	52
NPIS40LS3R3MTRF	3.3	±20%	100KHz, 1V	0.12	1.10	1.40	42
NPIS40LS4R7MTRF	4.7	±20%	100KHz, 1V	0.168	0.95	1.20	30
NPIS40LS6R8MTRF	6.8	±20%	100KHz, 1V	0.24	0.80	1.00	26
NPIS40LS100MTRF	10	±20%	100KHz, 1V	0.36	0.62	0.75	19
NPIS40LS150MTRF	15	±20%	100KHz, 1V	0.516	0.54	0.60	17
NPIS40LS220MTRF	22	±20%	100KHz, 1V	0.684	0.45	0.50	11

Maximum +40°C temperature rise at Irms. Maximum -30% inductance drop from initial measured value at Isat.

NPIS41LS Size

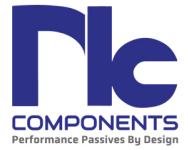
Series	Standard Values - Case Size 41 (4.0 x 4.0 x 1.0mm)						
	Inductance (μH)	Tolerance	Test Conditions	Max. DCR (Ω)	Max. Isat (Amps)	Max. Irms (Amps)	SRF
NPIS41LSR82YTRF	0.82	±30%	100KHz, 1V	0.065	3.02	1.65	150
NPIS41LS1R0YTRF	1	±30%	100KHz, 1V	0.065	2.61	1.65	120
NPIS41LS1R5YTRF	1.5	±30%	100KHz, 1V	0.085	2.10	1.46	90
NPIS41LS1R8YTRF	1.8	±30%	100KHz, 1V	0.104	2.12	1.32	88
NPIS41LS2R2YTRF	2.2	±30%	100KHz, 1V	0.104	1.76	1.32	74
NPIS41LS2R7YTRF	2.7	±30%	100KHz, 1V	0.117	1.90	1.25	71
NPIS41LS3R3YTRF	3.3	±30%	100KHz, 1V	0.143	1.72	1.12	60
NPIS41LS3R6YTRF	3.6	±30%	100KHz, 1V	0.143	1.20	1.12	57
NPIS41LS4R3YTRF	4.3	±30%	100KHz, 1V	0.182	1.58	1.00	54
NPIS41LS4R7YTRF	4.7	±30%	100KHz, 1V	0.163	1.15	1.05	50
NPIS41LS5R1YTRF	5.1	±30%	100KHz, 1V	0.201	1.55	0.95	50
NPIS41LS5R6YTRF	5.6	±30%	100KHz, 1V	0.182	1.00	1.00	42
NPIS41LS6R8MTRF	6.8	±20%	100KHz, 1V	0.257	0.85	0.84	40
NPIS41LS100MTRF	10	±20%	100KHz, 1V	0.345	0.80	0.77	33
NPIS41LS120MTRF	12	±20%	100KHz, 1V	0.377	0.66	0.70	32
NPIS41LS150MTRF	15	±20%	100KHz, 1V	0.442	0.56	0.64	25
NPIS41LS180MTRF	18	±20%	100KHz, 1V	0.611	0.55	0.55	23
NPIS41LS220MTRF	22	±20%	100KHz, 1V	0.763	0.46	0.49	20
NPIS41LS270MTRF	27	±20%	100KHz, 1V	0.936	0.50	0.45	18
NPIS41LS330MTRF	33	±20%	100KHz, 1V	1.053	0.42	0.42	17
NPIS41LS360MTRF	36	±20%	100KHz, 1V	1.17	0.40	0.40	14
NPIS41LS390MTRF	39	±20%	100KHz, 1V	1.43	0.55	0.37	16
NPIS41LS470MTRF	47	±20%	100KHz, 1V	1.43	0.35	0.37	12
NPIS41LS560MTRF	56	±20%	100KHz, 1V	1.625	0.33	0.33	11
NPIS41LS680MTRF	68	±20%	100KHz, 1V	2.535	0.38	0.27	11
NPIS41LS820MTRF	82	±20%	100KHz, 1V	2.782	0.28	0.26	11
NPIS41LS101MTRF	100	±20%	100KHz, 1V	2.873	0.25	0.25	9.4

Maximum +40°C temperature rise at Irms. Maximum -30% inductance drop from initial measured value at Isat.

Performance Passives By Design

NPIS-LS Series

Resin Shielded Power Inductors; Extended Range



NPIS48LS Size

Series	Standard Values - Case Size 41 (4.0 x 4.0 x 1.8mm)						
	Inductance (μH)	Tolerance	Test Conditions	Max. DCR (Ω)	Max. Isat (Amps)	Max. Irms (Amps)	SRF
NPIS48LSR47YTRF	0.47	±30%	100KHz, 1V	0.018	4.30	4.00	155
NPIS48LSR68YTRF	0.68	±30%	100KHz, 1V	0.026	4.90	3.30	128
NPIS48LS1R0YTRF	1.0	±30%	100KHz, 1V	0.033	4.80	2.00	80
NPIS48LS1R5YTRF	1.5	±30%	100KHz, 1V	0.039	3.35	1.80	65
NPIS48LS1R8YTRF	1.8	±30%	100KHz, 1V	0.044	3.00	2.00	54
NPIS48LS2R2MTRF	2.2	±20%	100KHz, 1V	0.059	2.70	1.65	52
NPIS48LS3R3MTRF	3.3	±20%	100KHz, 1V	0.091	2.45	1.23	44
NPIS48LS4R7MTRF	4.7	±20%	100KHz, 1V	0.117	1.70	1.20	34
NPIS48LS6R8MTRF	6.8	±20%	100KHz, 1V	0.143	1.45	1.06	29
NPIS48LS100MTRF	10	±20%	100KHz, 1V	0.234	1.30	0.84	24
NPIS48LS150MTRF	15	±20%	100KHz, 1V	0.325	0.94	0.65	19
NPIS48LS220MTRF	22	±20%	100KHz, 1V	0.468	0.80	0.59	16
NPIS48LS330MTRF	33	±20%	100KHz, 1V	0.530	0.65	0.49	12
NPIS48LS470MTRF	47	±20%	100KHz, 1V	0.845	0.57	0.42	10
NPIS48LS680MTRF	68	±20%	100KHz, 1V	1.300	0.47	0.32	8.3
NPIS48LS101MTRF	100	±20%	100KHz, 1V	2.275	0.40	0.25	6.5
NPIS48LS151MTRF	150	±20%	100KHz, 1V	3.250	0.31	0.22	5.5
NPIS48LS221MTRF	220	±20%	100KHz, 1V	5.200	0.27	0.17	4.0

Maximum +40°C temperature rise at Irms. Maximum -30% inductance drop from initial measured value at Isat.

NPIS-LS Series

Resin Shielded Power Inductors; Extended Range



NPIS42LS Size

Series	Standard Values - Case Size 41 (4.0 x 4.0 x 2.0mm)						
	Inductance (μH)	Tolerance	Test Conditions	Max. DCR (Ω)	Max. Isat (Amps)	Max. Irms (Amps)	SRF
NPIS42LSR24MTRF	0.24	±20%	100KHz, 1V	0.014	10.50	4.50	283
NPIS42LSR33YTRF	0.33	±30%	100KHz, 1V	0.016	7.50	3.30	223
NPIS42LSR47YTRF	0.47	±30%	100KHz, 1V	0.029	7.00	3.30	160
NPIS42LSR68YTRF	0.68	±30%	100KHz, 1V	0.036	6.40	2.80	120
NPIS42LS1R0YTRF	1.0	±30%	100KHz, 1V	0.038	4.78	2.15	75
NPIS42LS1R2YTRF	1.2	±30%	100KHz, 1V	0.038	5.10	2.15	72
NPIS42LS1R5YTRF	1.5	±30%	100KHz, 1V	0.046	4.45	1.98	71
NPIS42LS2R2YTRF	2.2	±30%	100KHz, 1V	0.052	3.40	1.85	49
NPIS42LS3R3MTRF	3.3	±20%	100KHz, 1V	0.091	3.20	1.40	44
NPIS42LS3R6MTRF	3.6	±20%	100KHz, 1V	0.072	2.80	1.54	49
NPIS42LS4R7MTRF	4.7	±20%	100KHz, 1V	0.098	2.35	1.34	42
NPIS42LS5R1MTRF	5.1	±20%	100KHz, 1V	0.111	2.30	1.27	42
NPIS42LS5R6MTRF	5.6	±20%	100KHz, 1V	0.117	2.20	1.22	30
NPIS42LS6R2MTRF	6.2	±20%	100KHz, 1V	0.15	2.15	1.08	36
NPIS42LS6R8MTRF	6.8	±20%	100KHz, 1V	0.163	2.20	1.04	33
NPIS42LS7R5MTRF	7.5	±20%	100KHz, 1V	0.15	1.85	1.08	30
NPIS42LS8R2MTRF	8.2	±20%	100KHz, 1V	0.163	1.75	1.04	27
NPIS42LS100MTRF	10	±20%	100KHz, 1V	0.215	1.60	0.90	26
NPIS42LS120MTRF	12	±20%	100KHz, 1V	0.228	1.50	0.88	26
NPIS42LS150MTRF	15	±20%	100KHz, 1V	0.299	1.35	0.77	24
NPIS42LS220MTRF	22	±20%	100KHz, 1V	0.455	1.05	0.62	15
NPIS42LS270MTRF	27	±20%	100KHz, 1V	0.709	1.02	0.50	14
NPIS42LS330MTRF	33	±20%	100KHz, 1V	0.715	0.85	0.49	11
NPIS42LS390MTRF	39	±20%	100KHz, 1V	0.845	0.82	0.46	11
NPIS42LS430MTRF	43	±20%	100KHz, 1V	0.858	0.77	0.45	10
NPIS42LS470MTRF	47	±20%	100KHz, 1V	0.923	0.74	0.44	10
NPIS42LS510MTRF	51	±20%	100KHz, 1V	0.975	0.70	0.42	10
NPIS42LS560MTRF	56	±20%	100KHz, 1V	1.04	0.66	0.41	10
NPIS42LS620MTRF	62	±20%	100KHz, 1V	1.17	0.65	0.39	9.6
NPIS42LS680MTRF	68	±20%	100KHz, 1V	1.38	0.61	0.36	7.7
NPIS42LS750MTRF	75	±20%	100KHz, 1V	1.51	0.70	0.35	7.7
NPIS42LS820MTRF	82	±20%	100KHz, 1V	1.52	0.50	0.34	7.2
NPIS42LS101MTRF	100	±20%	100KHz, 1V	2.02	0.48	0.31	6.3
NPIS42LS221MTRF	220	±20%	100KHz, 1V	5.46	0.30	0.30	5

Maximum +40°C temperature rise at Irms. Maximum -30% inductance drop from initial measured value at Isat.

NPIS-LS Series

Resin Shielded Power Inductors; Extended Range



NPIS43LS Size

Series	Standard Values - Case Size 41 (4.0 x 4.0 x 3.0mm)						
	Inductance (μH)	Tolerance	Test Conditions	Max. DCR (Ω)	Max. Isat (Amps)	Max. Irms (Amps)	SRF
NPIS43LSR68YTFR	0.68	±30%	100KHz, 1V	0.013	6.80	4.56	130
NPIS43LSR91YTFR	0.91	±30%	100KHz, 1V	0.017	6.25	4.15	100
NPIS43LS1R0YTFR	1.0	±30%	100KHz, 1V	0.018	5.26	4.15	70
NPIS43LS1R2YTFR	1.2	±30%	100KHz, 1V	0.02	5.80	3.82	80
NPIS43LS1R5YTFR	1.5	±30%	100KHz, 1V	0.026	4.84	3.34	62
NPIS43LS1R8YTFR	1.8	±30%	100KHz, 1V	0.033	4.50	3.20	60
NPIS43LS2R2YTFR	2.2	±30%	100KHz, 1V	0.039	4.90	2.95	52
NPIS43LS3R3MTRF	3.3	±20%	100KHz, 1V	0.052	3.30	2.40	38
NPIS43LS3R9MTRF	3.9	±20%	100KHz, 1V	0.074	3.00	2.10	32
NPIS43LS4R3MTRF	4.3	±20%	100KHz, 1V	0.072	2.95	2.10	37
NPIS43LS4R7MTRF	4.7	±20%	100KHz, 1V	0.078	2.90	2.00	31
NPIS43LS5R6MTRF	5.6	±20%	100KHz, 1V	0.085	2.60	1.95	30
NPIS43LS6R8MTRF	6.8	±20%	100KHz, 1V	0.117	2.75	1.60	24
NPIS43LS7R5MTRF	7.5	±20%	100KHz, 1V	0.111	2.20	1.65	26
NPIS43LS8R2MTRF	8.2	±20%	100KHz, 1V	0.117	2.10	1.60	26
NPIS43LS100MTRF	10	±20%	100KHz, 1V	0.130	1.95	1.50	21
NPIS43LS120MTRF	12	±20%	100KHz, 1V	0.176	1.70	1.30	18
NPIS43LS150MTRF	15	±20%	100KHz, 1V	0.247	1.65	1.11	16
NPIS43LS180MTRF	18	±20%	100KHz, 1V	0.260	1.40	1.10	10
NPIS43LS220MTRF	22	±20%	100KHz, 1V	0.293	1.30	1.00	10
NPIS43LS330MTRF	33	±20%	100KHz, 1V	0.429	1.10	0.84	10
NPIS43LS360MTRF	36	±20%	100KHz, 1V	0.436	1.05	0.83	9.8
NPIS43LS390MTRF	39	±20%	100KHz, 1V	0.566	1.03	0.73	10
NPIS43LS470MTRF	47	±20%	100KHz, 1V	0.579	0.95	0.72	8.4
NPIS43LS510MTRF	51	±20%	100KHz, 1V	0.611	0.90	0.70	8.4
NPIS43LS560MTRF	56	±20%	100KHz, 1V	0.722	0.85	0.65	8.4
NPIS43LS620MTRF	62	±20%	100KHz, 1V	0.760	0.80	0.63	7.0
NPIS43LS680MTRF	68	±20%	100KHz, 1V	1.128	0.72	0.52	7.0
NPIS43LS750MTRF	75	±20%	100KHz, 1V	1.326	0.70	0.48	6.3
NPIS43LS820MTRF	82	±20%	100KHz, 1V	1.378	0.66	0.47	5.6
NPIS43LS910MTRF	91	±20%	100KHz, 1V	1.430	0.65	0.46	5.6
NPIS43LS101MTRF	100	±20%	100KHz, 1V	1.495	0.60	0.45	5.6
NPIS43LS121MTRF	120	±20%	100KHz, 1V	1.755	0.55	0.42	5.4
NPIS43LS151MTRF	150	±20%	100KHz, 1V	2.340	0.50	0.30	4.0
NPIS43LS471KTRF	470	±10%	100KHz, 1V	9.360	0.30	0.20	2.0
NPIS43LS501MTRF	500	±20%	100KHz, 1V	9.027	0.28	0.15	2.0
NPIS43LS681MTRF	680	±20%	100KHz, 1V	9.854	0.19	0.14	1.2

Maximum +40°C temperature rise at Irms. Maximum -30% inductance drop from initial measured value at Isat.

NPIS-LS Series

Resin Shielded Power Inductors; Extended Range



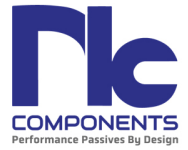
NPIS51LS Size

Series	Standard Values - Case Size 51 (5.0 x 5.0 x 1.2mm)						
	Inductance (μH)	Tolerance	Test Conditions	Max. DCR (Ω)	Max. Isat (Amps)	Max. Irms (Amps)	SRF
NPIS51LS1R0YTRF	1.0	±30%	100KHz, 1V	0.068	4.40	2.00	103
NPIS51LS1R5YTRF	1.5	±30%	100KHz, 1V	0.086	3.70	1.90	68
NPIS51LS2R2YTRF	2.2	±30%	100KHz, 1V	0.108	3.10	1.70	50
NPIS51LS3R3YTRF	3.3	±30%	100KHz, 1V	0.151	2.40	1.40	34
NPIS51LS4R7YTRF	4.7	±30%	100KHz, 1V	0.197	2.20	1.30	31
NPIS51LS6R8MTRF	6.8	±20%	100KHz, 1V	0.294	1.70	1.00	22
NPIS51LS100MTRF	10	±20%	100KHz, 1V	0.413	1.40	0.85	17
NPIS51LS150MTRF	15	±20%	100KHz, 1V	0.523	1.20	0.80	13
NPIS51LS220MTRF	22	±20%	100KHz, 1V	0.858	0.88	0.60	16

Maximum +40°C temperature rise at Irms. Maximum -30% inductance drop from initial measured value at Isat.

NPIS-LS Series

Resin Shielded Power Inductors; Extended Range



NPIS52LS Size

Series	Standard Values - Case Size 52 (5.0 x 5.0 x 2.0mm)						
	Inductance (μH)	Tolerance	Test Conditions	Max. DCR (Ω)	Max. Isat (Amps)	Max. Irms (Amps)	SRF
NPIS52LSR22YTFR	0.22	±30%	100KHz, 1V	0.011	9.00	5.30	280
NPIS52LSR24YTFR	0.24	±30%	100KHz, 1V	0.011	8.00	5.30	248
NPIS52LSR47YTFR	0.47	±30%	100KHz, 1V	0.017	6.15	4.60	160
NPIS52LSR56YTFR	0.56	±30%	100KHz, 1V	0.022	8.50	3.80	137
NPIS52LSR68YTFR	0.68	±30%	100KHz, 1V	0.022	5.50	4.00	120
NPIS52LSR75YTFR	0.75	±30%	100KHz, 1V	0.022	5.50	4.00	117
NPIS52LS1R0YTFR	1.0	±30%	100KHz, 1V	0.026	4.10	3.80	114
NPIS52LS1R2YTFR	1.2	±30%	100KHz, 1V	0.029	4.50	3.55	83
NPIS52LS1R5YTFR	1.5	±30%	100KHz, 1V	0.034	4.10	3.20	68
NPIS52LS2R2YTFR	2.2	±30%	100KHz, 1V	0.042	3.20	2.90	57
NPIS52LS2R7YTFR	2.7	±30%	100KHz, 1V	0.049	2.90	2.70	52
NPIS52LS3R0YTFR	3.0	±30%	100KHz, 1V	0.049	2.55	2.70	49
NPIS52LS3R3YTFR	3.3	±30%	100KHz, 1V	0.056	2.55	2.50	46
NPIS52LS3R6YTFR	3.6	±30%	100KHz, 1V	0.056	2.80	2.50	43
NPIS52LS3R9YTFR	3.9	±30%	100KHz, 1V	0.056	2.30	2.50	40
NPIS52LS4R3MTRF	4.3	±20%	100KHz, 1V	0.074	2.50	2.20	37
NPIS52LS4R7MTRF	4.7	±20%	100KHz, 1V	0.074	2.50	2.20	37
NPIS52LS5R1MTRF	5.1	±20%	100KHz, 1V	0.083	2.25	2.05	32
NPIS52LS5R6MTRF	5.6	±20%	100KHz, 1V	0.083	2.30	2.05	32
NPIS52LS6R8MTRF	6.8	±20%	100KHz, 1V	0.108	2.05	1.80	30
NPIS52LS7R5MTRF	7.5	±20%	100KHz, 1V	0.117	1.85	1.75	26
NPIS52LS8R2MTRF	8.2	±20%	100KHz, 1V	0.127	1.85	1.65	26
NPIS52LS9R1MTRF	9.1	±20%	100KHz, 1V	0.143	1.70	1.55	24
NPIS52LS100MTRF	10	±20%	100KHz, 1V	0.143	1.70	1.55	24
NPIS52LS120MTRF	12	±20%	100KHz, 1V	0.182	1.50	1.40	22
NPIS52LS150MTRF	15	±20%	100KHz, 1V	0.215	1.35	1.25	20
NPIS52LS180MTRF	18	±20%	100KHz, 1V	0.260	1.25	1.15	16
NPIS52LS220MTRF	22	±20%	100KHz, 1V	0.294	1.15	1.10	14
NPIS52LS330MTRF	33	±20%	100KHz, 1V	0.370	0.97	0.90	10
NPIS52LS470MTRF	47	±20%	100KHz, 1V	0.680	0.77	0.77	7.0
NPIS52LS560MTRF	56	±20%	100KHz, 1V	0.819	0.77	0.70	6.0
NPIS52LS680MTRF	68	±20%	100KHz, 1V	0.962	0.65	0.64	6.0
NPIS52LS820MTRF	82	±20%	100KHz, 1V	1.158	0.65	0.50	6.0
NPIS52LS101MTRF	100	±20%	100KHz, 1V	1.430	0.53	0.53	6.0
NPIS52LS121MTRF	120	±20%	100KHz, 1V	1.755	0.42	0.40	6.0
NPIS52LS201MTRF	200	±20%	100KHz, 1V	2.60	0.30	0.40	4.5

Maximum +40°C temperature rise at Irms. Maximum -30% inductance drop from initial measured value at Isat.

NPIS-LS Series

Resin Shielded Power Inductors; Extended Range



NPIS54LS Size

Series	Standard Values - Case Size 52 (5.0 x 5.0 x 4.0mm)						
	Inductance (μH)	Tolerance	Test Conditions	Max. DCR (Ω)	Max. Isat (Amps)	Max. Irms (Amps)	SRF
NPIS54LSR22MTRF	0.22	±20%	100KHz, 1V	0.008	18.00	6.50	289
NPIS54LSR24YTRF	0.24	±30%	100KHz, 1V	0.008	15.70	6.40	251
NPIS54LSR47MTRF	0.47	±20%	100KHz, 1V	0.009	10.00	6.60	171
NPIS54LS1R0YTRF	1.0	±30%	100KHz, 1V	0.016	7.35	4.90	117
NPIS54LS1R2YTRF	1.2	±30%	100KHz, 1V	0.021	6.50	4.15	110
NPIS54LS1R5YTRF	1.5	±30%	100KHz, 1V	0.020	6.30	4.30	86
NPIS54LS1R8MTRF	1.8	±20%	100KHz, 1V	0.021	5.50	4.15	55
NPIS54LS2R2YTRF	2.2	±30%	100KHz, 1V	0.025	4.90	3.80	50
NPIS54LS2R7YTRF	2.7	±30%	100KHz, 1V	0.029	4.30	3.60	37
NPIS54LS3R0YTRF	3.0	±30%	100KHz, 1V	0.029	4.15	3.60	37
NPIS54LS3R3YTRF	3.3	±30%	100KHz, 1V	0.031	3.95	3.40	32
NPIS54LS3R6MTRF	3.6	±20%	100KHz, 1V	0.031	3.80	3.30	30
NPIS54LS3R9YTRF	3.9	±30%	100KHz, 1V	0.035	3.55	3.20	29
NPIS54LS4R7YTRF	4.7	±30%	100KHz, 1V	0.039	3.50	3.00	28
NPIS54LS5R6MTRF	5.6	±20%	100KHz, 1V	0.046	3.00	2.80	27
NPIS54LS6R8MTRF	6.8	±20%	100KHz, 1V	0.056	2.90	2.50	21
NPIS54LS8R2MTRF	8.2	±20%	100KHz, 1V	0.062	2.70	2.30	20
NPIS54LS100MTRF	10	±20%	100KHz, 1V	0.083	2.35	2.10	18
NPIS54LS120MTRF	12	±20%	100KHz, 1V	0.100	2.20	2.00	14
NPIS54LS150MTRF	15	±20%	100KHz, 1V	0.112	2.00	2.00	13
NPIS54LS180MTRF	18	±20%	100KHz, 1V	0.155	1.70	1.45	12
NPIS54LS220MTRF	22	±20%	100KHz, 1V	0.168	1.60	1.50	11
NPIS54LS270MTRF	27	±20%	100KHz, 1V	0.244	1.52	1.10	9.8
NPIS54LS330MTRF	33	±20%	100KHz, 1V	0.244	1.30	1.20	9.0
NPIS54LS470MTRF	47	±20%	100KHz, 1V	0.354	1.10	1.00	7.0
NPIS54LS510MTRF	51	±20%	100KHz, 1V	0.494	1.00	1.00	6.0
NPIS54LS560MTRF	56	±20%	100KHz, 1V	0.494	1.05	0.80	6.0
NPIS54LS680MTRF	68	±20%	100KHz, 1V	0.520	0.90	0.80	6.0
NPIS54LS750MTRF	75	±20%	100KHz, 1V	0.585	0.85	0.72	6.0
NPIS54LS101MTRF	100	±20%	100KHz, 1V	0.128	0.75	0.70	5.0
NPIS54LS151MTRF	150	±20%	100KHz, 1V	0.975	0.65	0.60	3.7
NPIS54LS221MTRF	220	±20%	100KHz, 1V	1.82	0.48	0.40	3.0
NPIS54LS301MTRF	300	±20%	100KHz, 1V	2.60	0.50	0.35	2.7
NPIS54LS331MTRF	330	±20%	100KHz, 1V	2.73	0.42	0.40	2.7
NPIS54LS471MTRF	470	±20%	100KHz, 1V	3.90	0.37	0.35	2.7
NPIS54LS561MTRF	560	±20%	100KHz, 1V	4.92	0.31	0.31	1.5
NPIS54LS681MTRF	680	±20%	100KHz, 1V	5.07	0.30	0.25	1.6

Maximum +40°C temperature rise at Irms. Maximum -30% inductance drop from initial measured value at Isat.

NPIS-LS Series

Resin Shielded Power Inductors; Extended Range



NPIS55LS Size

Series	Standard Values - Case Size 55 (5.0 x 5.0 x 4.5mm)						
	Inductance (μH)	Tolerance	Test Conditions	Max. DCR (Ω)	Max. Isat (Amps)	Max. Irms (Amps)	SRF
NPIS55LS2R2MTRF	2.2	±20%	100KHz, 1V	0.029	6.40	4.70	50
NPIS55LS100MTRF	10	±20%	100KHz, 1V	0.079	3.20	2.50	17
NPIS55LS220MTRF	22	±20%	100KHz, 1V	0.163	2.00	1.55	10

NPIS62LS Size

Series	Standard Values - Case Size 62 (6.0 x 6.0 x 2.0mm)						
	Inductance (μH)	Tolerance	Test Conditions	Max. DCR (Ω)	Max. Isat (Amps)	Max. Irms (Amps)	SRF
NPIS62LSR50YTRF	0.5	±30%	100KHz, 1V	0.018	4.50	4.00	120
NPIS62LSR68YTRF	0.68	±30%	100KHz, 1V	0.022	6.55	3.80	115
NPIS62LSR82YTRF	0.82	±30%	100KHz, 1V	0.022	5.30	3.80	110
NPIS62LS1R0YTRF	1.0	±30%	100KHz, 1V	0.026	4.15	3.50	100
NPIS62LS1R2YTRF	1.2	±30%	100KHz, 1V	0.029	5.90	3.20	88
NPIS62LS1R5YTRF	1.5	±30%	100KHz, 1V	0.029	4.25	3.20	79
NPIS62LS1R8YTRF	1.8	±30%	100KHz, 1V	0.036	4.85	2.75	68
NPIS62LS2R0YTRF	2.0	±30%	100KHz, 1V	0.046	4.10	2.60	65
NPIS62LS2R2YTRF	2.2	±30%	100KHz, 1V	0.036	3.75	2.75	61
NPIS62LS2R7YTRF	2.7	±30%	100KHz, 1V	0.046	3.90	2.60	56
NPIS62LS3R3YTRF	3.3	±30%	100KHz, 1V	0.046	3.15	2.60	51
NPIS62LS3R9YTRF	3.9	±30%	100KHz, 1V	0.064	3.25	2.10	45
NPIS62LS4R3YTRF	4.3	±30%	100KHz, 1V	0.064	2.70	2.10	44
NPIS62LS4R7YTRF	4.7	±30%	100KHz, 1V	0.075	3.00	2.00	41
NPIS62LS5R6YTRF	5.6	±30%	100KHz, 1V	0.075	2.40	1.90	36
NPIS62LS6R2YTRF	6.2	±30%	100KHz, 1V	0.103	2.30	1.80	31
NPIS62LS6R8YTRF	6.8	±30%	100KHz, 1V	0.103	2.20	1.80	31
NPIS62LS8R2YTRF	8.2	±30%	100KHz, 1V	0.137	2.10	1.40	27
NPIS62LS100MTRF	10	±20%	100KHz, 1V	0.137	1.75	1.40	27
NPIS62LS120MTRF	12	±20%	100KHz, 1V	0.156	1.45	1.30	25
NPIS62LS150MTRF	15	±20%	100KHz, 1V	0.145	1.50	1.20	21
NPIS62LS180MTRF	18	±20%	100KHz, 1V	0.234	1.20	1.08	18
NPIS62LS220MTRF	22	±20%	100KHz, 1V	0.265	1.05	1.00	16
NPIS62LS330MTRF	33	±20%	100KHz, 1V	0.390	0.95	0.84	11
NPIS62LS470MTRF	47	±20%	100KHz, 1V	0.559	0.70	0.80	10
NPIS62LS331MTRF	330	±20%	100KHz, 1V	3.419	0.27	0.33	3.0

Maximum +40°C temperature rise at Irms. Maximum -30% inductance drop from initial measured value at Isat.

NPIS-LS Series

Resin Shielded Power Inductors; Extended Range



NPIS63LS Size

Series	Standard Values - Case Size 62 (6.0 x 6.0 x 3.0mm)						
	Inductance (μH)	Tolerance	Test Conditions	Max. DCR (Ω)	Max. Isat (Amps)	Max. Irms (Amps)	SRF
NPIS63LSR82YTFR	0.82	±30%	100KHz, 1V	0.016	6.50	5.20	97
NPIS63LS1R0YTFR	1.0	±30%	100KHz, 1V	0.013	5.75	5.20	70
NPIS63LS1R2YTFR	1.2	±30%	100KHz, 1V	0.017	6.40	4.58	69
NPIS63LS1R5YTFR	1.5	±30%	100KHz, 1V	0.017	6.00	4.58	65
NPIS63LS2R2YTFR	2.2	±30%	100KHz, 1V	0.015	5.10	4.09	48
NPIS63LS2R7YTFR	2.7	±30%	100KHz, 1V	0.026	3.80	3.75	48
NPIS63LS3R3YTFR	3.3	±30%	100KHz, 1V	0.033	4.15	3.48	41
NPIS63LS4R7YTFR	4.7	±30%	100KHz, 1V	0.039	3.00	3.08	35
NPIS63LS5R1YTFR	5.1	±30%	100KHz, 1V	0.056	3.20	2.60	32
NPIS63LS6R2MTRF	6.2	±20%	100KHz, 1V	0.061	3.05	2.40	30
NPIS63LS6R8MTRF	6.8	±20%	100KHz, 1V	0.061	2.60	2.40	27
NPIS63LS8R2MTRF	8.2	±20%	100KHz, 1V	0.072	2.30	2.25	24
NPIS63LS9R1MTRF	9.1	±20%	100KHz, 1V	0.096	2.55	2.15	24
NPIS63LS100MTRF	10	±20%	100KHz, 1V	0.094	2.04	1.95	23
NPIS63LS120MTRF	12	±20%	100KHz, 1V	0.104	1.80	1.85	18
NPIS63LS150MTRF	15	±20%	100KHz, 1V	0.163	1.75	1.45	18
NPIS63LS180MTRF	18	±20%	100KHz, 1V	0.156	1.52	1.45	15
NPIS63LS220MTRF	22	±20%	100KHz, 1V	0.182	1.45	1.40	14
NPIS63LS270MTRF	27	±20%	100KHz, 1V	0.202	1.50	1.32	13
NPIS63LS330MTRF	33	±20%	100KHz, 1V	0.241	1.35	1.22	12
NPIS63LS360MTRF	36	±20%	100KHz, 1V	0.280	1.25	1.13	11
NPIS63LS390MTRF	39	±20%	100KHz, 1V	0.293	1.25	1.10	11
NPIS63LS470MTRF	47	±20%	100KHz, 1V	0.410	1.15	1.06	9.5
NPIS63LS560MTRF	56	±20%	100KHz, 1V	0.449	1.05	0.89	8.2
NPIS63LS680MTRF	68	±20%	100KHz, 1V	0.360	0.95	0.86	7.7
NPIS63LS750MTRF	75	±20%	100KHz, 1V	0.533	0.90	0.81	7.7
NPIS63LS820MTRF	82	±20%	100KHz, 1V	0.445	0.90	0.70	7.7
NPIS63LS101MTRF	100	±20%	100KHz, 1V	0.650	0.65	0.70	7.1
NPIS63LS401MTRF	400	±20%	100KHz, 1V	2.808	0.30	0.40	2.8

Maximum +40°C temperature rise at Irms. Maximum -30% inductance drop from initial measured value at Isat.

NPIS-LS Series

Resin Shielded Power Inductors; Extended Range



NPIS65LS Size

Series	Standard Values - Case Size 62 (6.0 x 6.0 x 4.5mm)						
	Inductance (μH)	Tolerance	Test Conditions	Max. DCR (Ω)	Max. Isat (Amps)	Max. Irms (Amps)	SRF
NPIS65LSR47YTRF	0.47	±30%	100KHz, 1V	0.008	15.00	6.50	155
NPIS65LSR56YTRF	0.56	±30%	100KHz, 1V	0.008	14.00	6.50	142
NPIS65LSR68YTRF	0.68	±30%	100KHz, 1V	0.008	11.00	5.70	99
NPIS65LSR82YTRF	0.82	±30%	100KHz, 1V	0.01	10.35	5.90	140
NPIS65LS1R0YTRF	1.0	±30%	100KHz, 1V	0.014	9.85	5.14	100
NPIS65LS1R2YTRF	1.2	±30%	100KHz, 1V	0.013	8.35	5.40	100
NPIS65LS1R3YTRF	1.3	±30%	100KHz, 1V	0.013	8.35	5.40	100
NPIS65LS1R5YTRF	1.5	±30%	100KHz, 1V	0.016	8.80	4.95	65
NPIS65LS1R8YTRF	1.8	±30%	100KHz, 1V	0.016	7.60	4.95	74
NPIS65LS2R2YTRF	2.2	±30%	100KHz, 1V	0.018	6.75	4.60	52
NPIS65LS2R3YTRF	2.3	±30%	100KHz, 1V	0.027	6.00	3.50	60
NPIS65LS2R7YTRF	2.7	±30%	100KHz, 1V	0.02	5.75	4.30	38
NPIS65LS3R0YTRF	3.0	±30%	100KHz, 1V	0.026	5.60	3.80	35
NPIS65LS3R3YTRF	3.3	±30%	100KHz, 1V	0.027	5.90	3.70	32
NPIS65LS3R6YTRF	3.6	±30%	100KHz, 1V	0.027	5.25	3.70	28
NPIS65LS4R3MTRF	4.3	±20%	100KHz, 1V	0.03	4.45	3.50	23
NPIS65LS4R5MTRF	4.5	±20%	100KHz, 1V	0.034	4.97	3.30	24
NPIS65LS4R7MTRF	4.7	±20%--	100KHz, 1V	0.034	4.97	3.30	24
NPIS65LS5R1MTRF	5.1	±20%	100KHz, 1V	0.034	4.40	3.30	23
NPIS65LS5R6MTRF	5.6	±20%	100KHz, 1V	0.038	4.15	3.15	23
NPIS65LS6R2MTRF	6.2	±20%	100KHz, 1V	0.04	4.43	3.00	26
NPIS65LS6R3MTRF	6.3	±20%	100KHz, 1V	0.04	4.43	3.00	26
NPIS65LS6R8MTRF	6.8	±20%	100KHz, 1V	0.04	3.90	3.00	20
NPIS65LS7R5MTRF	7.5	±20%	100KHz, 1V	0.044	3.50	2.90	18
NPIS65LS8R2MTRF	8.2	±20%	100KHz, 1V	0.056	3.90	2.60	21
NPIS65LS9R1MTRF	9.1	±20%	100KHz, 1V	0.056	3.35	2.60	17
NPIS65LS100MTRF	10	±20%	100KHz, 1V	0.062	3.20	2.45	15
NPIS65LS120MTRF	12	±20%	100KHz, 1V	0.075	2.80	2.20	13
NPIS65LS150MTRF	15	±20%	100KHz, 1V	0.088	2.50	2.05	12
NPIS65LS180MTRF	18	±20%	100KHz, 1V	0.105	2.20	1.85	10
NPIS65LS220MTRF	22	±20%	100KHz, 1V	0.116	2.05	1.80	10
NPIS65LS270MTRF	27	±20%	100KHz, 1V	0.133	1.90	1.65	9.2
NPIS65LS300MTRF	30	±20%	100KHz, 1V	0.172	1.70	1.50	7.8
NPIS65LS330MTRF	33	±20%	100KHz, 1V	0.11	1.65	1.45	7.8
NPIS65LS360MTRF	36	±20%	100KHz, 1V	0.225	1.62	1.40	7.8
NPIS65LS390MTRF	39	±20%	100KHz, 1V	0.234	1.50	1.25	7.8
NPIS65LS430MTRF	43	±20%	100KHz, 1V	0.26	1.63	1.20	7.7
NPIS65LS470MTRF	47	±20%	100KHz, 1V	0.26	1.40	1.20	6.4
NPIS65LS510MTRF	51	±20%	100KHz, 1V	0.269	1.35	1.15	6.4
NPIS65LS560MTRF	56	±20%	100KHz, 1V	0.287	1.30	1.10	6.4
NPIS65LS620MTRF	62	±20%	100KHz, 1V	0.306	1.25	1.10	6.4

Size 65 continues on next page

Maximum +40°C temperature rise at Irms. Maximum -30% inductance drop from initial measured value at Isat.

Performance Passives By Design

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NPIS-LS Series

Resin Shielded Power Inductors; Extended Range



NPIS65LS Size

Series	Standard Values - Case Size 62 (6.0 x 6.0 x 4.5mm)						
	Inductance (μ H)	Tolerance	Test Conditions	Max. DCR (Ω)	Max. Isat (Amps)	Max. Irms (Amps)	SRF
NPIS65LS680MTRF	68	$\pm 20\%$	100KHz, 1V	0.376	1.20	1.00	6.4
NPIS65LS750MTRF	75	$\pm 20\%$	100KHz, 1V	0.397	1.15	0.95	5.0
NPIS65LS820MTRF	82	$\pm 20\%$	100KHz, 1V	0.443	1.05	0.90	4.9
NPIS65LS910MTRF	91	$\pm 20\%$	100KHz, 1V	0.467	1.00	0.85	4.9
NPIS65LS101MTRF	100	$\pm 20\%$	100KHz, 1V	0.563	0.95	0.80	4.2
NPIS65LS121MTRF	120	$\pm 20\%$	100KHz, 1V	0.629	0.85	0.77	4.2
NPIS65LS151MTRF	150	$\pm 20\%$	100KHz, 1V	0.754	0.80	0.70	4.2
NPIS65LS221MTRF	220	$\pm 20\%$	100KHz, 1V	1.084	0.70	0.59	3.5
NPIS65LS331MTRF	330	$\pm 20\%$	100KHz, 1V	1.651	0.57	0.57	2.8
NPIS65LS471MTRF	470	$\pm 20\%$	100KHz, 1V	2.34	0.50	0.42	2.0
NPIS65LS681MTRF	680	$\pm 20\%$	100KHz, 1V	3.25	0.42	0.33	1.7

Maximum +40°C temperature rise at Irms. Maximum -30% inductance drop from initial measured value at Isat.

NPIS-LS Series

Resin Shielded Power Inductors; Extended Range



NPIS84LS Size

Series	Standard Values - Case Size 84 (8.0 x 8.0 x 4.2mm)						
	Inductance (μH)	Tolerance	Test Conditions	Max. DCR (Ω)	Max. Isat (Amps)	Max. Irms (Amps)	SRF
NPIS84LSR82YTRF	0.82	±30%	100KHz, 1V	0.01	13.80	6.30	94
NPIS84LS1R0YTRF	1.0	±30%	100KHz, 1V	0.01	9.85	6.30	89
NPIS84LS1R2YTRF	1.2	±30%	100KHz, 1V	0.013	10.00	5.65	59
NPIS84LS1R5YTRF	1.5	±30%	100KHz, 1V	0.013	8.15	5.65	67
NPIS84LS2R0YTRF	2.0	±30%	100KHz, 1V	0.016	9.25	5.15	43
NPIS84LS2R2YTRF	2.2	±30%	100KHz, 1V	0.016	7.10	5.15	41
NPIS84LS3R0YTRF	3.0	±30%	100KHz, 1V	0.018	6.10	4.70	32
NPIS84LS3R3YTRF	3.3	±30%	100KHz, 1V	0.022	6.50	4.40	27
NPIS84LS3R6YTRF	3.6	±30%	100KHz, 1V	0.022	7.52	4.35	30
NPIS84LS3R9YTRF	3.9	±30%	100KHz, 1V	0.022	5.75	4.35	26
NPIS84LS4R7YTRF	4.7	±30%	100KHz, 1V	0.025	5.90	4.10	24
NPIS84LS5R1YTRF	5.1	±30%	100KHz, 1V	0.025	4.70	4.05	22
NPIS84LS5R6YTRF	5.6	±30%	100KHz, 1V	0.027	6.00	3.85	24
NPIS84LS6R2YTRF	6.2	±30%	100KHz, 1V	0.027	4.45	3.85	20
NPIS84LS6RBMTRF	6.8	±20%	100KHz, 1V	0.031	4.55	3.60	20
NPIS84LSBR2MTRF	8.2	±20%	100KHz, 1V	0.034	4.20	3.45	17
NPIS84LS100MTRF	10	±20%	100KHz, 1V	0.038	3.60	3.30	15
NPIS84LS120MTRF	12	±20%	100KHz, 1V	0.053	3.50	2.80	13
NPIS84LS150MTRF	15	±20%	100KHz, 1V	0.061	2.95	2.60	12
NPIS84LS1B0MTRF	18	±20%	100KHz, 1V	0.069	2.70	2.40	11
NPIS84LS220MTRF	22	±20%	100KHz, 1V	0.090	2.40	2.10	9.5
NPIS84LS270MTRF	27	±20%	100KHz, 1V	0.101	2.15	2.00	9.2
NPIS84LS330MTRF	33	±20%	100KHz, 1V	0.126	2.05	1.80	7.8
NPIS84LS360MTRF	36	±20%	100KHz, 1V	0.133	2.00	1.75	7.8
NPIS84LS390MTRF	39	±20%	100KHz, 1V	0.139	1.95	1.70	7.8
NPIS84LS430MTRF	43	±20%	100KHz, 1V	0.147	1.90	1.65	7.8
NPIS84LS470MTRF	47	±20%	100KHz, 1V	0.177	1.75	1.55	6.4
NPIS84LS510MTRF	51	±20%	100KHz, 1V	0.185	1.70	1.50	6.4
NPIS84LS560MTRF	56	±20%	100KHz, 1V	0.192	1.55	1.45	6.4
NPIS84LS620MTRF	62	±20%	100KHz, 1V	0.237	1.50	1.30	6.4
NPIS84LS680MTRF	68	±20%	100KHz, 1V	0.255	1.45	1.25	4.9
NPIS84LS750MTRF	75	±20%	100KHz, 1V	0.274	1.35	1.20	4.9
NPIS84LS820MTRF	82	±20%	100KHz, 1V	0.293	1.30	1.15	5.9
NPIS84LS910MTRF	91	±20%	100KHz, 1V	0.354	1.20	1.05	4.9
NPIS84LS101MTRF	100	±20%	100KHz, 1V	0.377	1.15	1.00	4.2
NPIS84LS121MTRF	120	±20%	100KHz, 1V	0.434	1.05	0.95	3.5
NPIS84LS151MTRF	150	±20%	100KHz, 1V	0.533	1.10	0.85	3.5
NPIS84LS181MTRF	180	±20%	100KHz, 1V	0.676	0.95	0.83	3.5
NPIS84LS221MTRF	220	±20%	100KHz, 1V	0.779	0.85	0.80	3.5
NPIS84LS331MTRF	330	±20%	100KHz, 1V	1.156	0.68	0.64	2.8
NPIS84LS471MTRF	470	±20%	100KHz, 1V	1.625	0.60	0.50	2.1

Maximum +40°C temperature rise at Irms. Maximum -30% inductance drop from initial measured value at Isat.

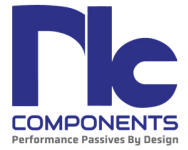
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NPIS-LS Series

Resin Shielded Power Inductors; Extended Range



NPIS86LS Size

Series	Standard Values - Case Size 87 (8.0 x 8.0 x 6.0mm)						
	Inductance (μH)	Tolerance	Test Conditions	Max. DCR (Ω)	Max. Isat (Amps)	Max. Irms (Amps)	SRF
NPIS86LS681KTRF	680	±10%	100KHz, 1V	2.17	0.72	0.46	1.26

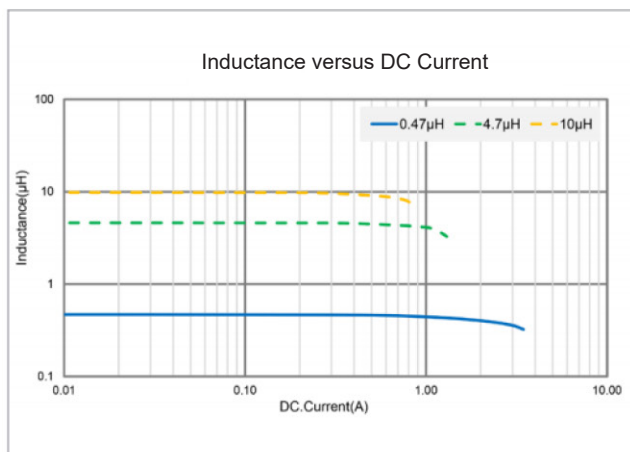
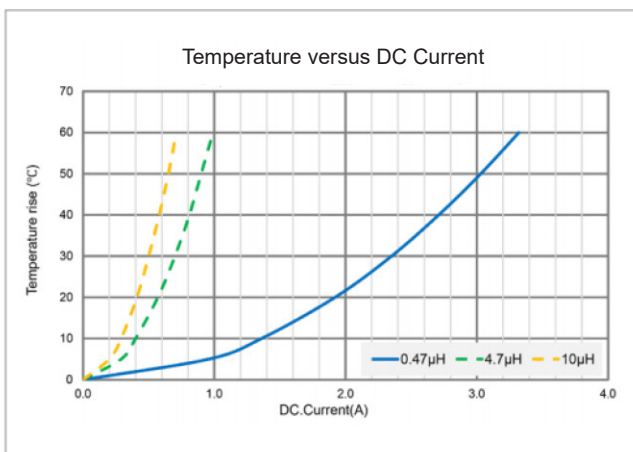
NPIS87LS Size

Series	Standard Values - Case Size 87 (8.0 x 8.0 x 6.5mm)						
	Inductance (μH)	Tolerance	Test Conditions	Max. DCR (Ω)	Max. Isat (Amps)	Max. Irms (Amps)	SRF
NPIS87LSR68MTRF	0.68	±20%	100KHz, 1V	0.008	24.00	7.50	100
NPIS87LS1R0MTRF	1.0	±20%	100KHz, 1V	0.011	20.00	7.00	96
NPIS87LS2R2MTRF	2.2	±20%	100KHz, 1V	0.016	13.80	5.20	45
NPIS87LS3R3MTRF	3.3	±20%	100KHz, 1V	0.018	9.50	5.10	27
NPIS87LS4R7MTRF	4.7	± 20%	100KHz, 1V	0.022	8.50	4.70	18
NPIS87LS5R6MTRF	5.6	±20%	100KHz, 1V	0.026	8.00	4.50	17
NPIS87LS6R8MTRF	6.8	±20%	100KHz, 1V	0.026	7.50	4.50	16
NPIS87LS8R2MTRF	8.2	±20%	100KHz, 1V	0.031	7.00	4.20	15
NPIS87LS100MTRF	10	±20%	100KHz, 1V	0.044	8.00	3.20	13
NPIS87LS150MTRF	15	±20%	100KHz, 1V	0.053	5.70	3.25	10
NPIS87LS220MTRF	22	±20%	100KHz, 1V	0.072	4.30	2.70	8.0
NPIS87LS470MTRF	47	±20%	100KHz, 1V	0.152	3.40	1.85	7.0
NPIS87LS560MTRF	56	±20%	100KHz, 1V	0.198	3.20	1.35	6.0
NPIS87LS680MTRF	68	±20%	100KHz, 1V	0.218	2.70	1.55	5.0
NPIS87LS101MTRF	100	±20%	100KHz, 1V	0.28	2.00	1.35	3.1
NPIS87LS151MTRF	150	±20%	100KHz, 1V	0.44	1.60	0.95	2.5
NPIS87LS221MTRF	220	±20%	100KHz, 1V	0.656	1.20	0.80	2.0
NPIS87LS331MTRF	330	±20%	100KHz, 1V	0.84	1.00	0.75	1.7
NPIS87LS471MTRF	470	±20%	100KHz, 1V	1.56	1.00	0.55	1.4
NPIS87LS681MTRF	680	±20%	100KHz, 1V	1.944	0.85	0.52	1.0

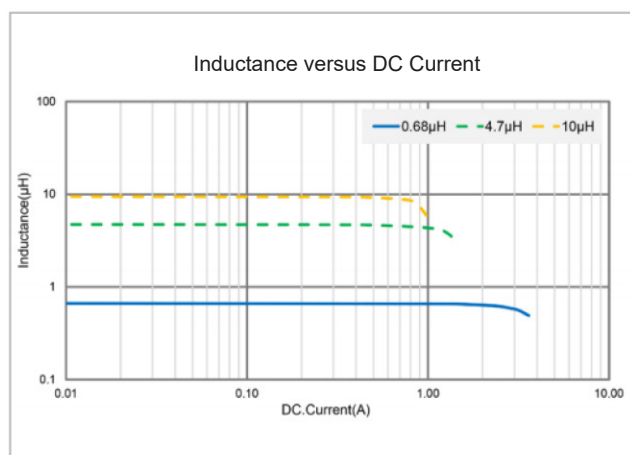
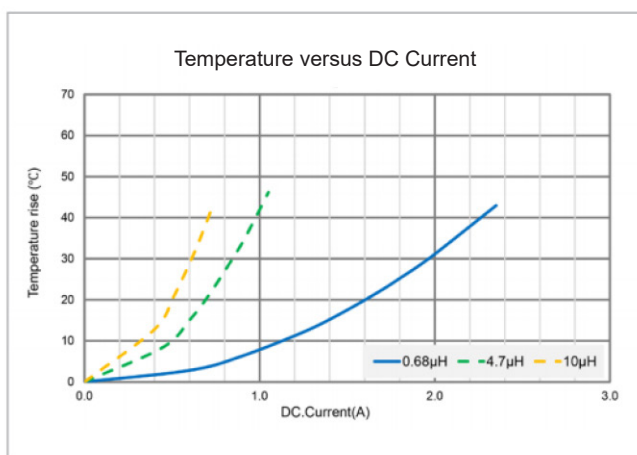
Maximum +40°C temperature rise at Irms. Maximum -30% inductance drop from initial measured value at Isat.

PERFORMANCE CURVES

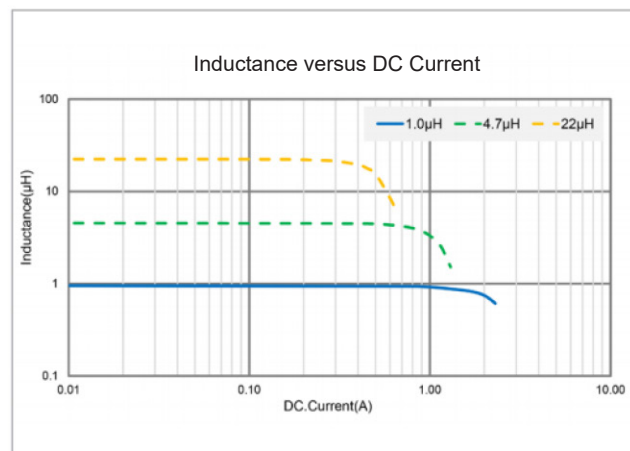
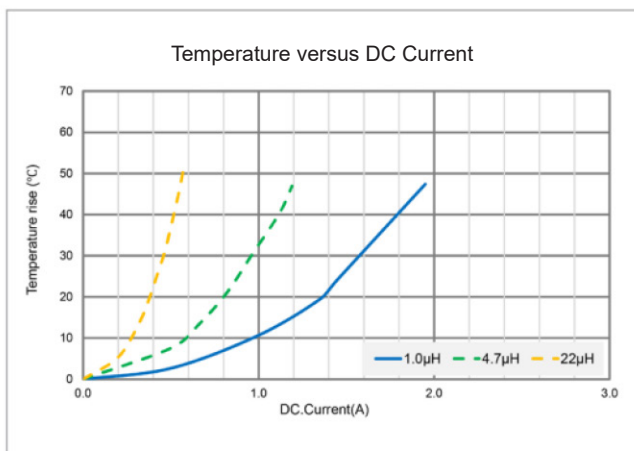
NPIS20LS



NPIS21LS

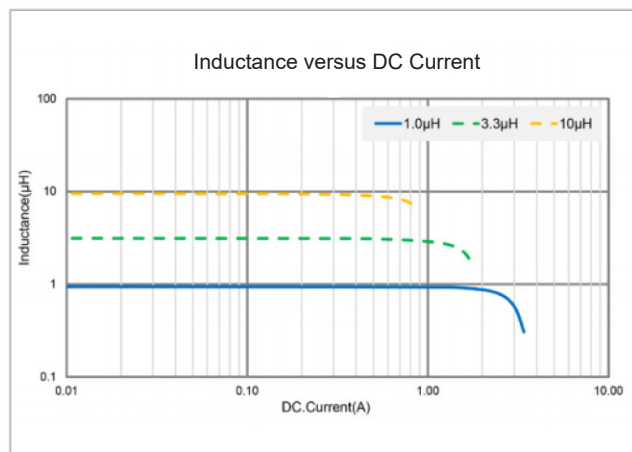
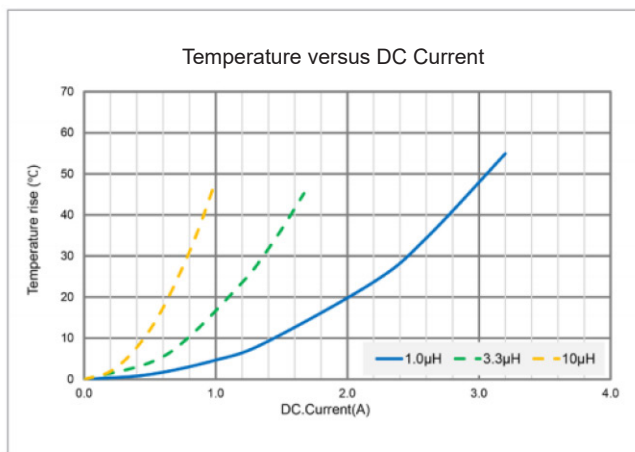


NPIS31LS

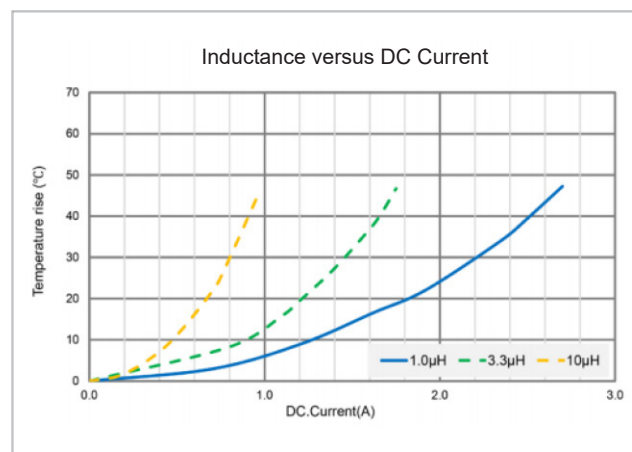
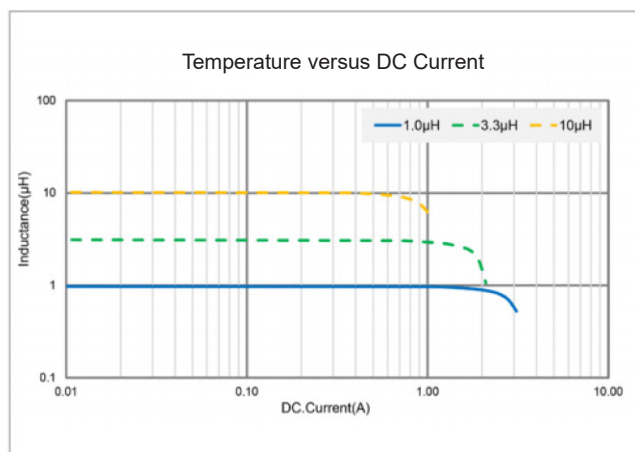


PERFORMANCE CURVES

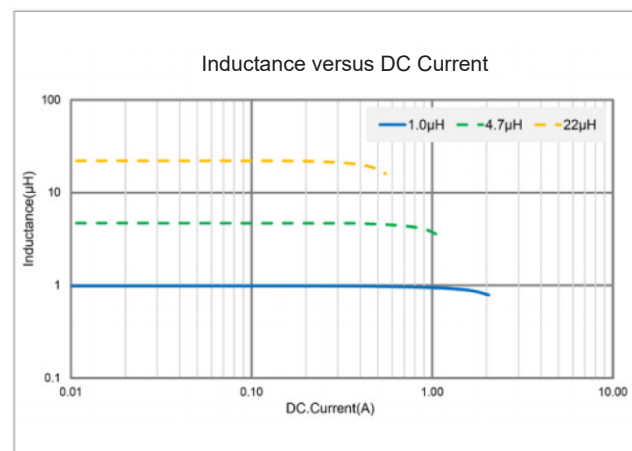
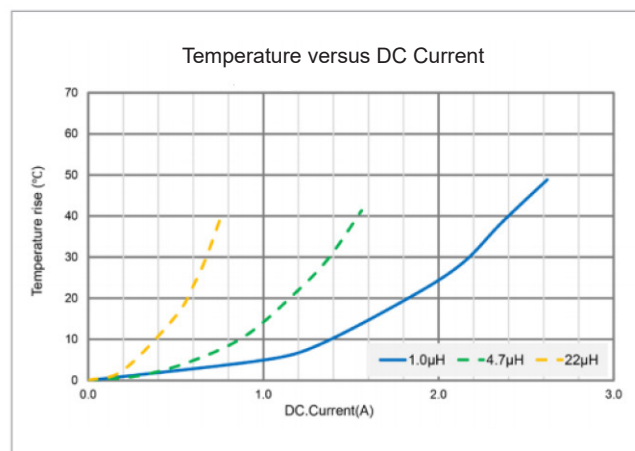
NPIS31LS



NPIS35LS

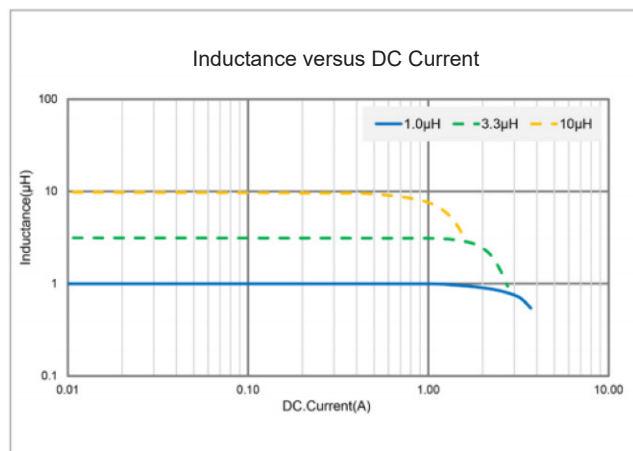
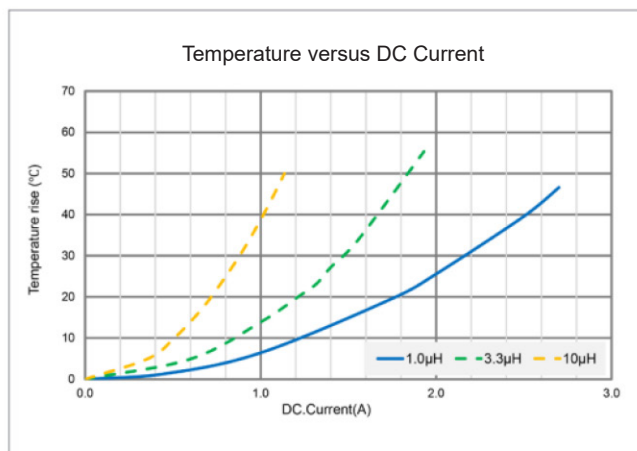


NPIS40LS

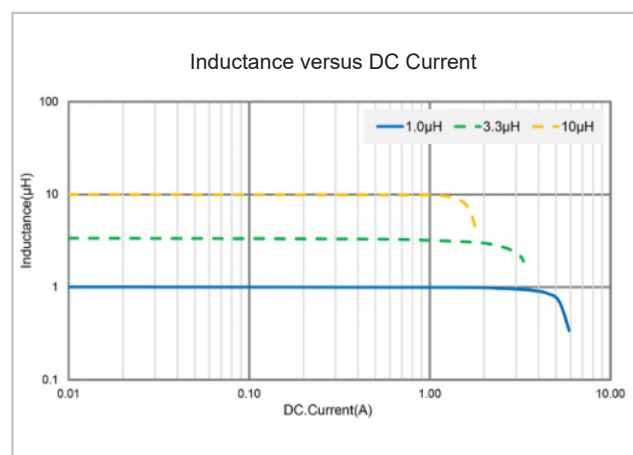
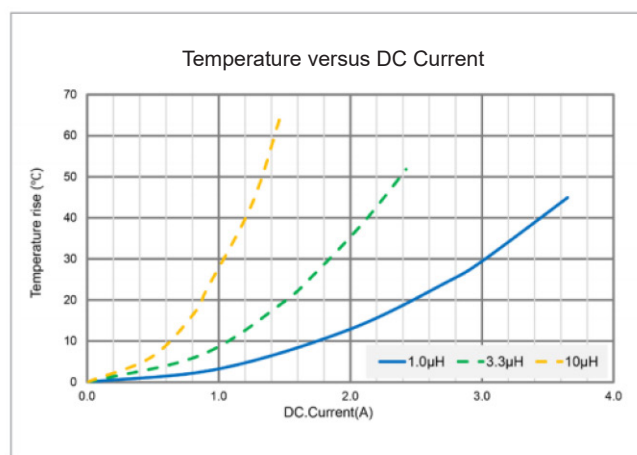


PERFORMANCE CURVES

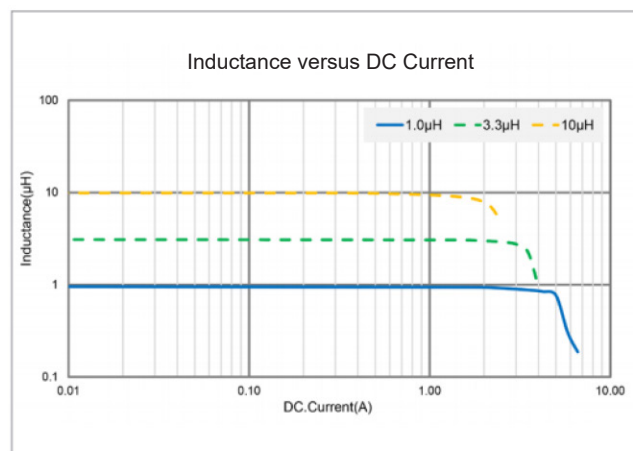
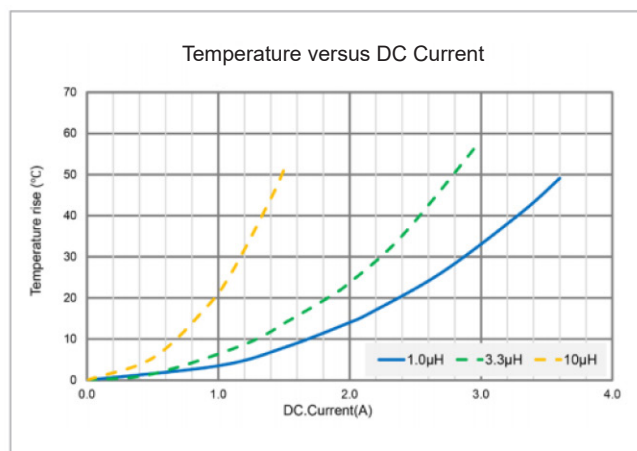
NPIS41LS



NPIS48LS

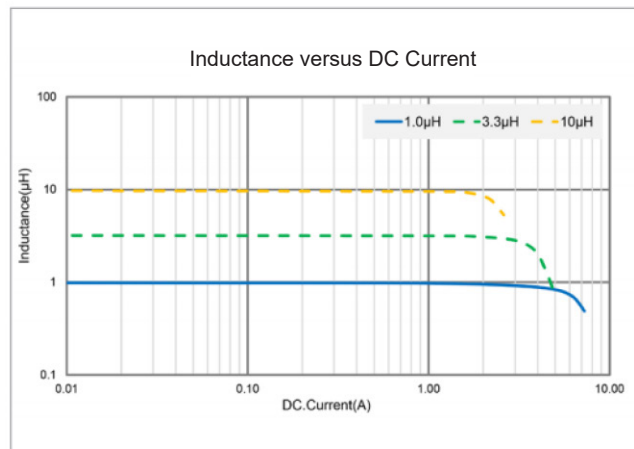
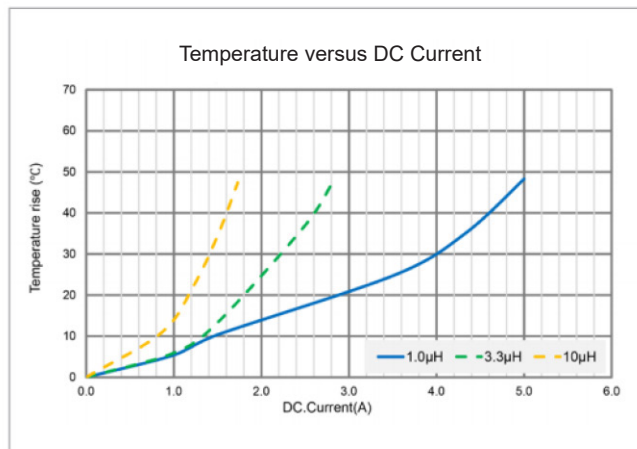


NPIS42LS

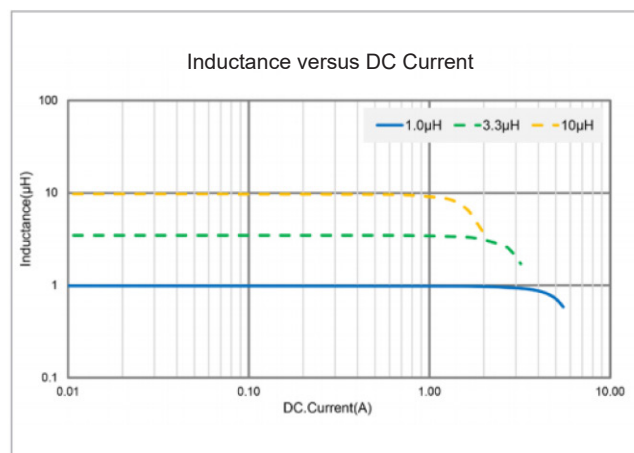
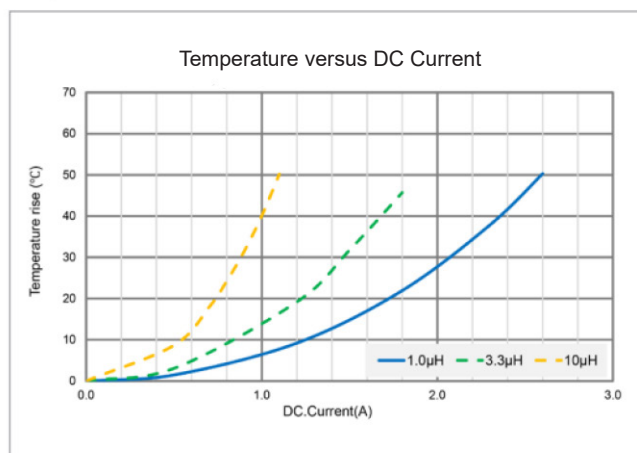


PERFORMANCE CURVES

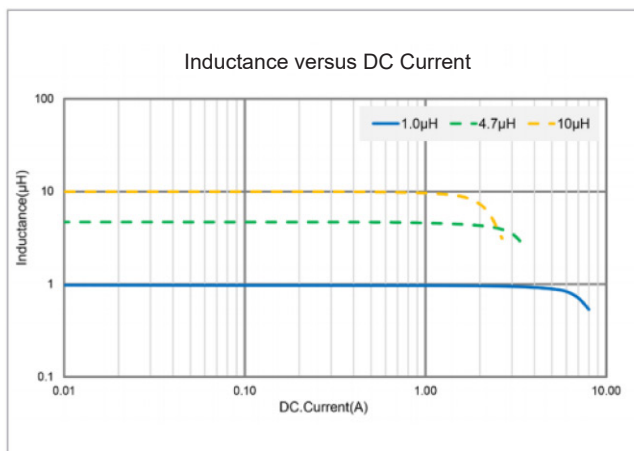
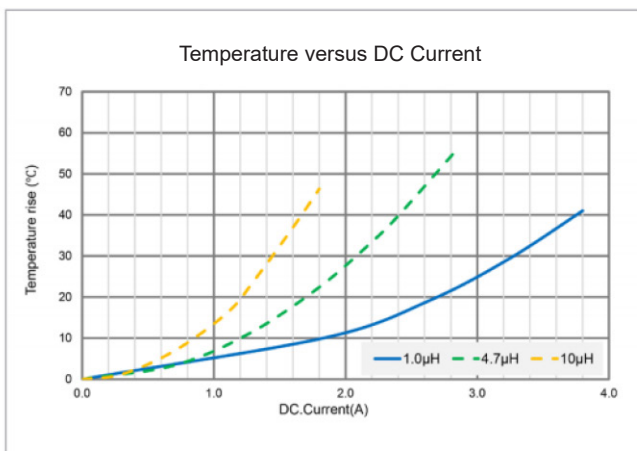
NPIS43LS



NPIS51LS

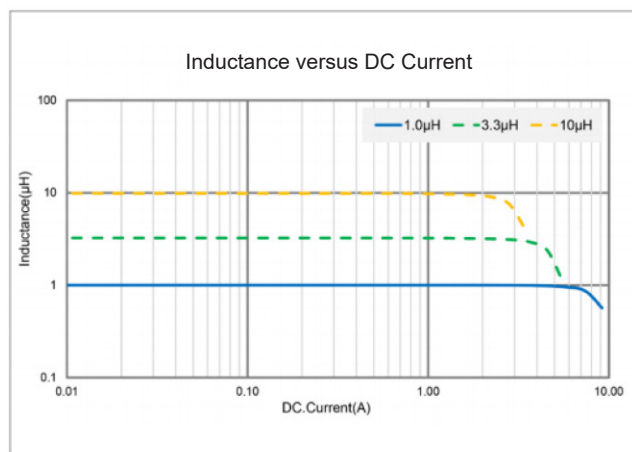
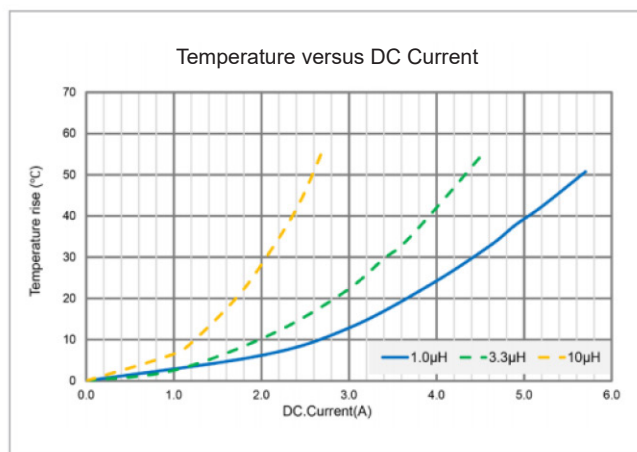


NPIS52LS

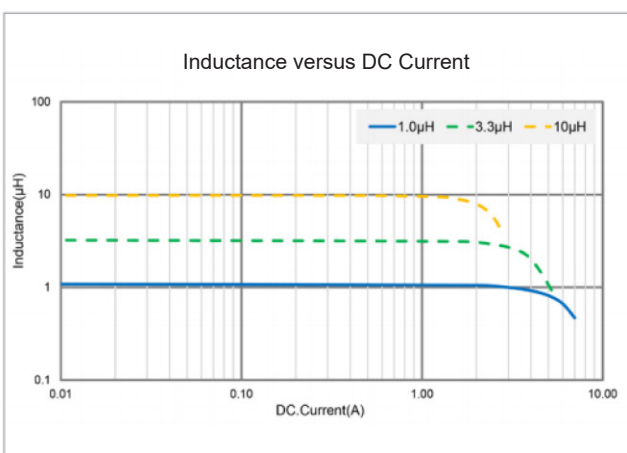
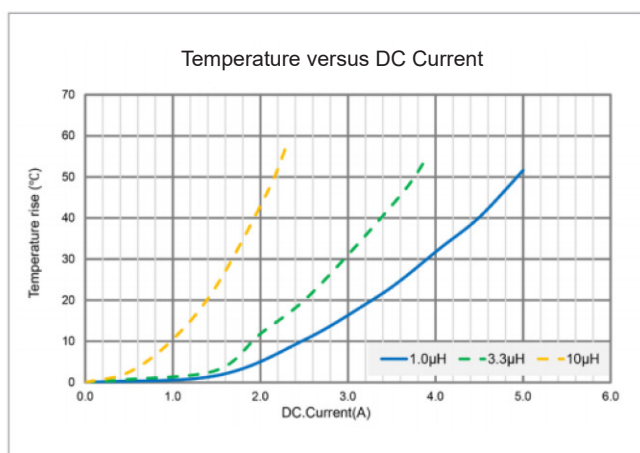


PERFORMANCE CURVES

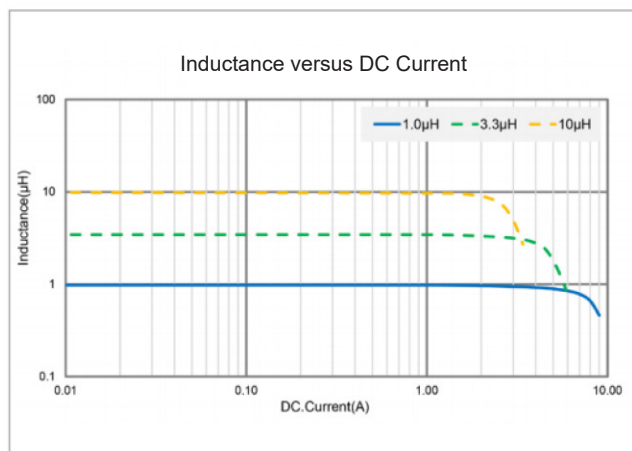
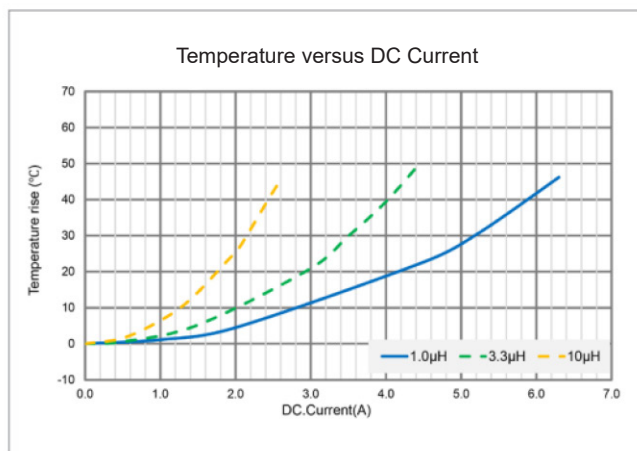
NPIS54LS



NPIS62LS

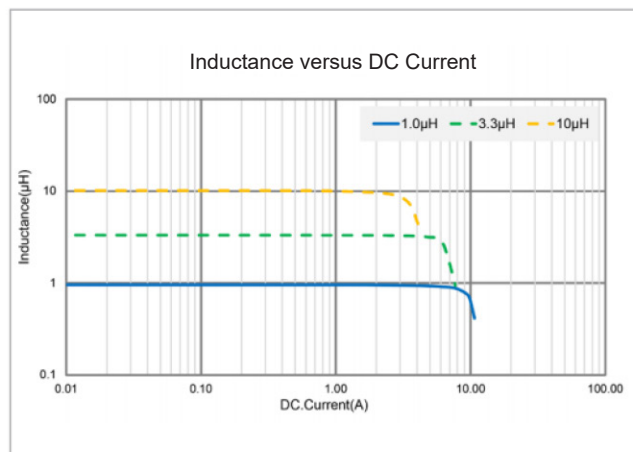
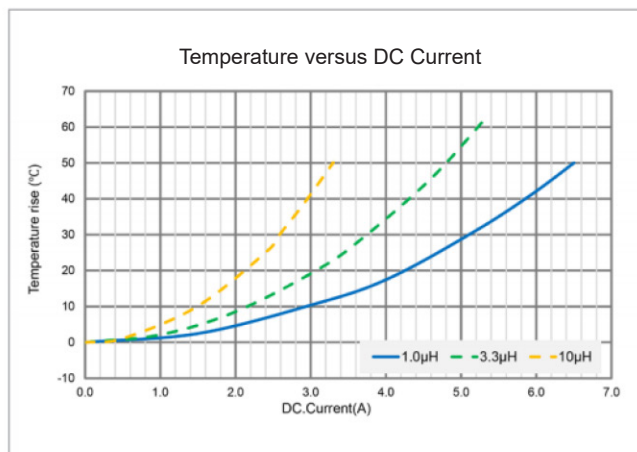


NPIS63LS

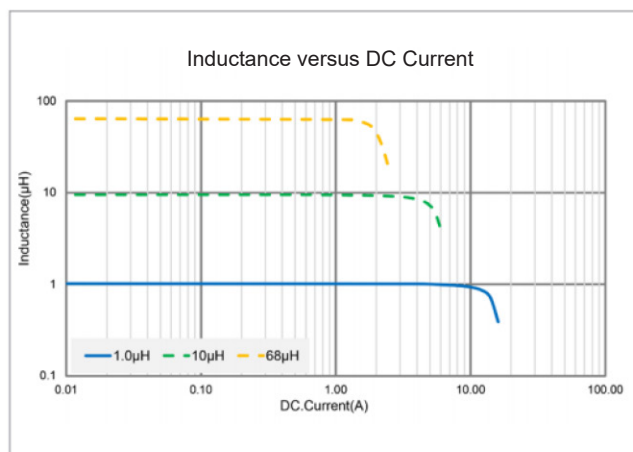
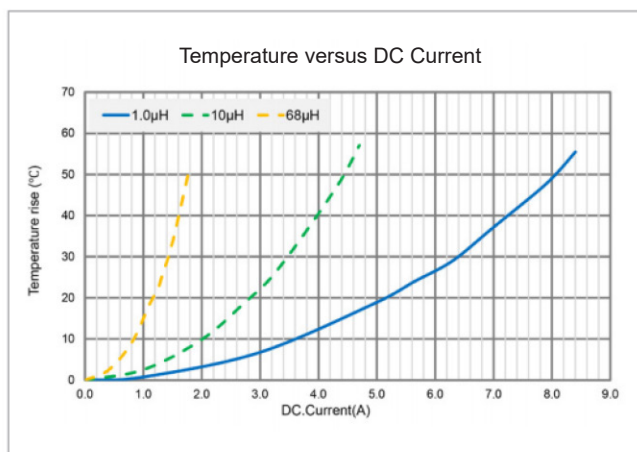


PERFORMANCE CURVES

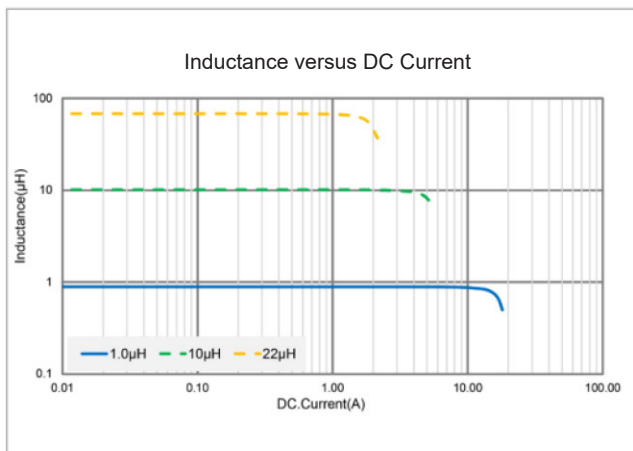
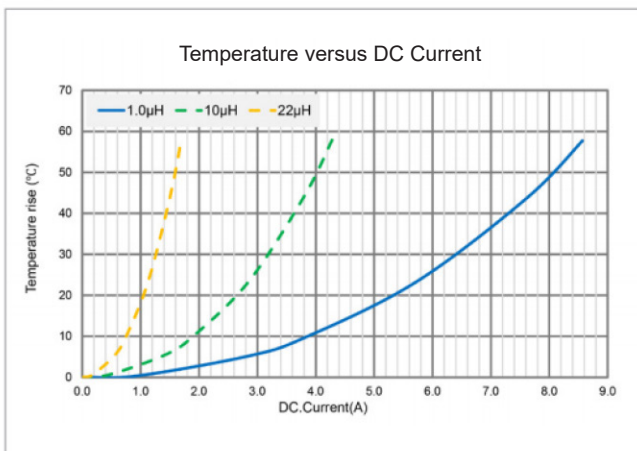
NPIS65LS



NPIS84LS



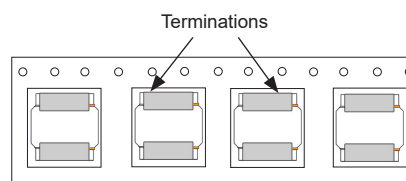
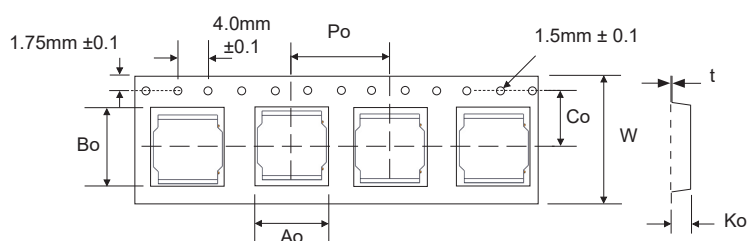
NPIS86LS



NPIS-LS Series

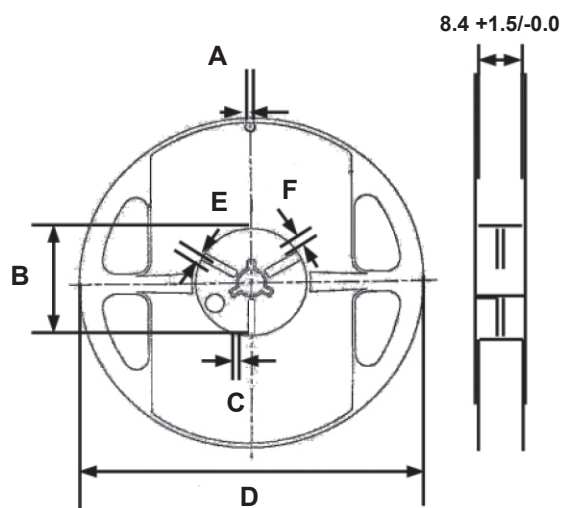
Resin Shielded Power Inductors; Extended Range

Case Size	CARRIER TAPING DIMENSIONS (mm) AND REEL QUANTITY							
	Ao	Bo	Ko	Co	W	Po	t	Quantity
NPIS20LS	2.35 ± 0.1	2.65 ± 0.1	1.2 ± 0.1	3.5 ± 0.1	8.0 ± 0.3	4.0 ± 0.1	0.25	2,000
NPIS21LS	2.35 ± 0.1	2.65 ± 0.1	1.4 ± 0.1	3.5 ± 0.1	8.0 ± 0.3	4.0 ± 0.1	0.25	2,000
NPIS31LS	3.3 ± 0.1	3.3 ± 0.1	1.4 ± 0.1	3.5 ± 0.1	8.0 ± 0.3	4.0 ± 0.1	0.3 ± 0.03	2,000
NPIS32LS	3.3 ± 0.1	3.3 ± 0.1	1.6 ± 0.1	3.5 ± 0.1	8.0 ± 0.3	4.0 ± 0.1	0.3 ± 0.03	2,000
NPIS35LS	3.3 ± 0.1	3.3 ± 0.1	1.9 ± 0.1	3.5 ± 0.1	8.0 ± 0.3	4.0 ± 0.1	0.3 ± 0.03	2,000
NPIS40LS	4.3 ± 0.1	4.3 ± 0.1	1.4 ± 0.1	5.5 ± 0.1	12.0 ± 0.3	8.0 ± 0.1	0.35 ± 0.03	5,000
NPIS41LS	4.4 ± 0.1	4.4 ± 0.1	1.6 ± 0.1	5.5 ± 0.1	12.0 ± 0.3	8.0 ± 0.1	0.35 ± 0.03	4,500
NPIS48LS	4.4 ± 0.1	4.4 ± 0.1	2.1 ± 0.1	5.5 ± 0.1	12.0 ± 0.3	8.0 ± 0.1	0.35 ± 0.03	3,000
NPIS42LS	4.4 ± 0.1	4.4 ± 0.1	2.4 ± 0.1	5.5 ± 0.1	12.0 ± 0.3	8.0 ± 0.1	0.35 ± 0.03	3,000
NPIS43LS	4.4 ± 0.1	4.4 ± 0.1	3.2 ± 0.1	5.5 ± 0.1	12.0 ± 0.3	8.0 ± 0.1	0.35 ± 0.03	2,000
NPIS51LS	5.3 ± 0.1	5.3 ± 0.1	1.4 ± 0.1	5.5 ± 0.1	12.0 ± 0.3	8.0 ± 0.1	0.35 ± 0.03	4,500
NPIS52LS	5.4 ± 0.1	5.4 ± 0.1	2.2 ± 0.15	5.5 ± 0.1	12.0 ± 0.3	8.0 ± 0.1	0.35 ± 0.05	2,500
NPIS54LS	5.3 ± 0.1	5.3 ± 0.1	4.2 ± 0.15	5.5 ± 0.1	12.0 ± 0.3	8.0 ± 0.1	0.40 ± 0.05	1,500
NPIS55LS	5.3 ± 0.1	5.3 ± 0.1	4.7 ± 0.15	5.5 ± 0.1	12.0 ± 0.3	8.0 ± 0.1	0.40 ± 0.05	1,500
NPIS62LS	6.3 ± 0.1	6.3 ± 0.1	2.5 ± 0.1	7.5 ± 0.1	16.0 ± 0.3	8.0 ± 0.1	0.40 ± 0.03	2,500
NPIS63LS	6.4 ± 0.1	6.4 ± 0.1	3.3 ± 0.1	7.5 ± 0.1	16.0 ± 0.3	8.0 ± 0.1	0.40 ± 0.03	2,000
NPIS64LS	6.4 ± 0.1	6.4 ± 0.1	4.7 ± 0.1	7.5 ± 0.1	16.0 ± 0.3	8.0 ± 0.1	0.40 ± 0.03	1,500
NPIS84LS	8.35 ± 0.1	8.35 ± 0.1	4.4 ± 0.1	7.5 ± 0.1	16.0 ± 0.3	12.0 ± 0.1	0.40 ± 0.03	1,000
NPIS86LS	8.3 ± 0.1	8.3 ± 0.1	6.2 ± 0.1	7.5 ± 0.1	16.0 ± 0.3	12.0 ± 0.1	0.50 ± 0.03	800
NPIS87LS	8.3 ± 0.1	8.3 ± 0.1	6.7 ± 0.1	7.5 ± 0.1	16.0 ± 0.3	12.0 ± 0.1	0.50 ± 0.03	700

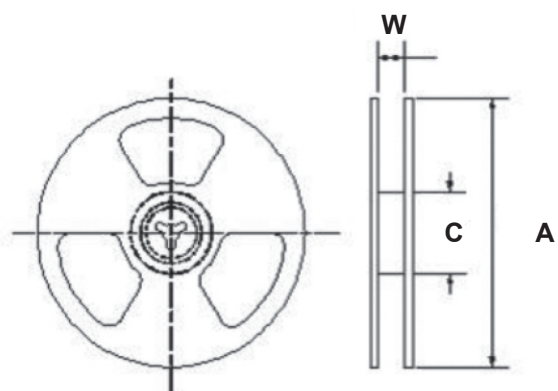


NPIS-LS Series

Resin Shielded Power Inductors; Extended Range



Case Size	REEL DIMENSIONS (mm) NPIS20LS ~ NPIS35LS					
	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
NPIS20LS	4.3 ± 0.20	58 ± 2.0	3.0 ± 0.10	178 ± 2.0	4.0 ± 0.10	4.0 ± 0.10
NPIS21LS						
NPIS31LS						
NPIS32LS						
NPIS35LS						



Case Size	REEL DIMENSIONS (mm) NP40LS ~ NPIS87LS		
	A(mm)	C(mm)	W(mm)
NPIS40LS	330	100	12.6
NPIS41LS	330	100	12.6
NPIS48LS	330	100	12.6
NPIS42LS	330	100	12.6
NPIS43LS	330	100	12.6
NPIS51LS	330	100	12.6
NPIS52LS	330	100	12.6
NPIS54LS	330	100	12.6
NPIS55LS	330	100	12.6
NPIS62LS	330	100	16.6
NPIS63LS	330	100	16.6
NPIS64LS	330	100	16.6
NPIS84LS	330	100	16.6
NPIS86LS	330	100	16.6
NPIS87LS	330	100	16.6

