

◆ SMD Power Inductors NR-T Series

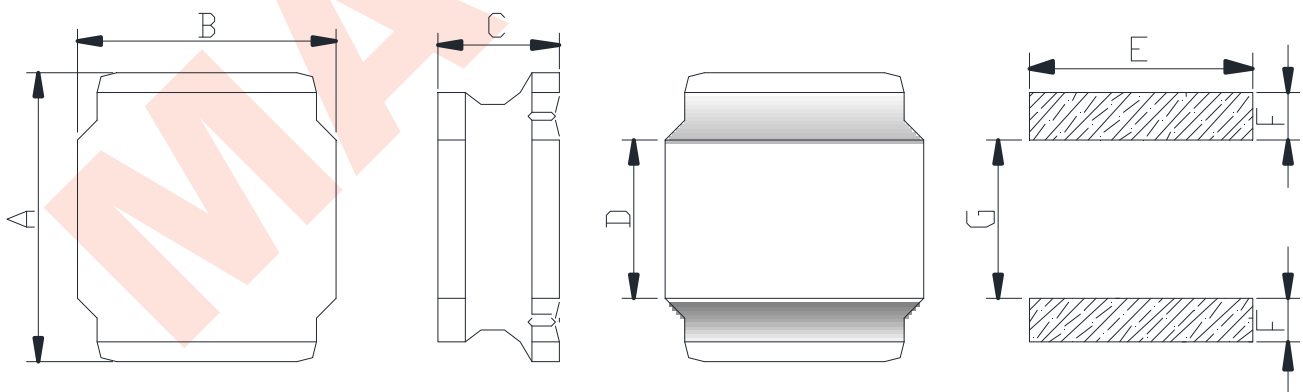


PRODUCT IDENTIFICATION

NR 4018T L Z - 3R3 M
a b c d e f

- a: Series name
- b: Product dimensions (a x b)
- c: Sealing way (L: Cold seal Y: Heat seal)
- d: Lettering direction ▶
- e: Inductance Value
(1R0:1.0uH; 100: 10uH; 101:100uH)
- f: Inductance Tolerance (K:10% ; M:20% ; N:30%)

SHAPES AND DIMENSIONS



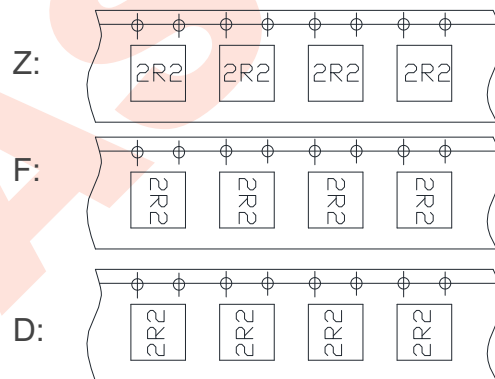
FEATURES

- ◆ low profile, low RDC, high current handling capacities.
- ◆ Magnetically shielded structure that ensures the high-density mounting configurations.
- ◆ Flat bottom surface ensures secure, reliable mounting.

APPLICATIONS

- ◆ Ideally used in Digital camera, notebook, PC, LCD TV set, DC-DC Converters, etc.

▶ Lettering direction



※All products are printed with Marking except the 252010, 252012, 3010 and 3012 series.

◆ SMD Power Inductors NR-T Series

SHAPES AND DIMENSIONS

Series	Dimensions(mm)						
	A	B	C Max.	D	E Ref.	F Ref.	G Ref.
NR252010T	2.5±0.1	2.0±0.1	1.00	0.8±0.2	2.00	0.85	0.80
NR252012T	2.5±0.1	2.0±0.1	1.20	0.8±0.2	2.00	0.85	0.80
NR3010T	3.0±0.2	3.0±0.2	1.00	1.5±0.2	2.70	0.80	1.50
NR3012T	3.0±0.2	3.0±0.2	1.20	1.5±0.2	2.70	0.80	1.50
NR3015T	3.0±0.2	3.0±0.2	1.50	1.5±0.2	2.70	0.80	1.50
NR4010T	4.0±0.2	4.0±0.2	1.00	2.1±0.2	3.70	1.10	1.90
NR4012T	4.0±0.2	4.0±0.2	1.20	2.1±0.2	3.70	1.10	1.90
NR4018T	4.0±0.2	4.0±0.2	1.80	2.1±0.2	3.70	1.10	1.90
NR4020T	4.0±0.2	4.0±0.2	2.00	2.1±0.2	3.70	1.10	1.90
NR4030T	4.0±0.2	4.0±0.2	3.00	2.1±0.2	3.70	1.10	1.90
NR5012T	5.0±0.2	5.0±0.2	1.20	2.5±0.2	4.20	1.40	2.30
NR5020T	5.0±0.2	5.0±0.2	2.00	2.5±0.2	4.20	1.40	2.30
NR5040T	5.0±0.2	5.0±0.2	4.00	2.5±0.2	4.20	1.40	2.30
NR6020T	6.0±0.3	6.0±0.3	2.00	2.9±0.3	5.70	1.70	2.80
NR6028T	6.0±0.3	6.0±0.3	2.80	2.9±0.3	5.70	1.70	2.80
NR6045T	6.0±0.3	6.0±0.3	4.50	2.9±0.3	5.70	1.70	2.80
NR8040T	8.0±0.3	8.0±0.3	4.20	4.0±0.3	7.50	2.20	3.80
NR8065T	8.0±0.3	8.0±0.3	6.50	4.0±0.3	7.50	2.20	3.80

ELECTRICAL CHARACTERISTICS

Part Number	L (μ H)	Test Freq. (KHz)	DCR Max. (Ω)	Saturation Current (A)	Heat Rating Current (A)
NR252010TYD-R47N	0.47	100	0.056	2.50	2.35
NR252010TYD-R56N	0.56	100	0.072	2.90	2.00
NR252010TYD-R68N	0.68	100	0.074	2.20	2.00
NR252010TYD-1R0N	1.00	100	0.108	1.85	1.65
NR252010TYD-1R5N	1.50	100	0.182	1.80	1.30
NR252010TYD-2R2N	2.20	100	0.209	1.20	1.20
NR252010TYD-3R3M	3.30	100	0.328	1.05	0.90
NR252010TYD-4R7M	4.70	100	0.563	0.95	0.70
NR252010TYD-5R6M	5.60	100	0.563	0.80	0.73
NR252010TYD-6R8M	6.80	100	0.896	0.78	0.59
NR252010TYD-100M	10.0	100	1.092	0.65	0.50

Note:

Rated current The DC current at which the inductance decreases to 70 % of its initial value or when $\Delta t=40^{\circ}\text{C}$, whichever is lower($T_a=25^{\circ}\text{C}$)

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ELECTRICAL CHARACTERISTICS

Part Number	L (μ H)	Test Freq. (KHz)	DCR Max. (Ω)	Saturation Current (A)	Heat Rating Current (A)
NR252012TYD-R47N	0.47	100	0.061	3.82	2.15
NR252012TYD-R68N	0.68	100	0.074	3.28	1.95
NR252012TYD-1R0N	1.0	100	0.090	2.59	1.93
NR252012TYD-1R2N	1.2	100	0.129	2.38	1.46
NR252012TYD-1R5M	1.5	100	0.147	2.24	1.40
NR252012TYD-2R2M	2.2	100	0.216	1.85	1.15
NR252012TYD-2R7M	2.7	100	0.239	1.72	1.09
NR252012TYD-3R3M	3.3	100	0.264	1.61	1.04
NR252012TYD-3R6M	3.6	100	0.348	1.46	0.90
NR252012TYD-4R3M	4.3	100	0.377	1.37	0.87
NR252012TYD-4R7M	4.7	100	0.377	1.12	0.84
NR252012TYD-5R1M	5.1	100	0.500	1.23	0.75
NR252012TYD-5R6M	5.6	100	0.538	1.11	0.73
NR252012TYD-6R2M	6.2	100	0.542	1.03	0.73
NR252012TYD-6R8M	6.8	100	0.581	0.98	0.69
NR252012TYD-7R5M	7.5	100	0.611	0.97	0.68
NR252012TYD-8R2M	8.2	100	0.658	0.98	0.65
NR252012TYD-9R1M	9.1	100	0.690	0.91	0.62
NR252012TYD-100M	10	100	0.690	0.79	0.62
NR252012TYD-120M	12	100	1.075	0.78	0.51
NR252012TYD-150M	15	100	1.591	0.68	0.42
NR252012TYD-220M	22	100	1.976	0.53	0.38

Note:

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ELECTRICAL CHARACTERISTICS

Part Number	L (μ H)	Test Freq. (KHz)	DCR Max. (Ω)	Saturation Current (A)	Heat Rating Current (A)
NR3010TYD-1R0N	1.0	100	0.085	1.40	1.45
NR3010TYD-1R2N	1.2	100	0.085	1.25	1.45
NR3010TYD-1R5N	1.5	100	0.104	1.27	1.30
NR3010TYD-2R2N	2.2	100	0.143	1.15	1.09
NR3010TYD-2R7N	2.7	100	0.169	1.00	1.02
NR3010TYD-3R3N	3.3	100	0.189	0.97	0.96
NR3010TYD-3R6M	3.6	100	0.215	0.95	0.90
NR3010TYD-4R7M	4.7	100	0.293	0.75	0.77
NR3010TYD-5R6M	5.6	100	0.322	0.58	0.70
NR3010TYD-6R8M	6.8	100	0.397	0.55	0.66
NR3010TYD-8R2M	8.2	100	0.520	0.55	0.58
NR3010TYD-100M	10	100	0.520	0.55	0.58
NR3010TYD-120M	12	100	0.657	0.43	0.52
NR3010TYD-150M	15	100	0.793	0.42	0.47
NR3010TYD-220M	22	100	1.209	0.35	0.38
NR3010TYD-270M	27	100	1.404	0.30	0.35
NR3010TYD-330M	33	100	2.015	0.29	0.30
NR3010TYD-390M	39	100	2.275	0.28	0.28
NR3010TYD-430M	43	100	2.340	0.23	0.27
NR3010TYD-470M	47	100	2.535	0.22	0.26
NR3010TYD-510M	51	100	2.860	0.21	0.25
NR3010TYD-560M	56	100	3.016	0.21	0.24

Note:

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ELECTRICAL CHARACTERISTICS

Part Number	L (μ H)	Test Freq. (KHz)	DCR Max. (Ω)	Saturation Current (A)	Heat Rating Current (A)
NR3012TYD-R22N	0.22	100	0.022	5.30	3.00
NR3012TYD-R82N	0.82	100	0.039	2.05	2.47
NR3012TYD-1R0N	1.0	100	0.052	1.87	2.20
NR3012TYD-1R2N	1.2	100	0.059	2.22	2.01
NR3012TYD-1R5N	1.5	100	0.059	1.62	2.01
NR3012TYD-1R8N	1.8	100	0.082	1.30	1.65
NR3012TYD-2R2N	2.2	100	0.098	1.20	1.55
NR3012TYD-2R4N	2.4	100	0.088	1.15	1.60
NR3012TYD-2R7N	2.7	100	0.110	1.14	1.48
NR3012TYD-3R3M	3.3	100	0.130	1.05	1.36
NR3012TYD-3R6M	3.6	100	0.130	1.05	1.36
NR3012TYD-3R9M	3.9	100	0.189	1.00	1.24
NR3012TYD-4R7M	4.7	100	0.156	0.90	1.24
NR3012TYD-5R6M	5.6	100	0.226	0.80	1.13
NR3012TYD-6R8M	6.8	100	0.247	0.75	0.98
NR3012TYD-100M	10	100	0.345	0.60	0.83
NR3012TYD-120M	12	100	0.449	0.48	0.73
NR3012TYD-150M	15	100	0.468	0.45	0.71
NR3012TYD-180M	18	100	0.709	0.43	0.58
NR3012TYD-220M	22	100	0.839	0.42	0.53
SR3012TYD-270M	27	100	1.131	0.35	0.47
NR3012TYD-330M	33	100	1.138	0.36	0.46
NR3012TYD-360M	36	100	1.235	0.34	0.44
NR3012TYD-390M	39	100	1.729	0.30	0.37
NR3012TYD-470M	47	100	1.885	0.27	0.35
NR3012TYD-560M	56	100	1.794	0.26	0.28
NR3012TYD-680M	68	100	2.171	0.24	0.33
NR3012TYD-820M	82	100	3.302	0.17	0.27
NR3012TYD-101M	100	100	3.718	0.21	0.25

Note:

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ELECTRICAL CHARACTERISTICS

Part Number	L (μ H)	Test Freq. (KHz)	DCR Max. (Ω)	Saturation Current (A)	Heat Rating Current (A)
NR3015TYD-R50N	0.5	100	0.039	3.90	2.60
NR3015TYD-1R0N	1.0	100	0.039	2.32	2.35
NR3015TYD-1R2N	1.2	100	0.052	2.21	1.95
NR3015TYD-1R5N	1.5	100	0.065	2.30	1.70
NR3015TYD-1R8N	1.8	100	0.065	1.75	1.70
NR3015TYD-2R2N	2.2	100	0.078	1.60	1.60
NR3015TYD-2R7N	2.7	100	0.098	1.52	1.43
NR3015TYD-3R3M	3.3	100	0.104	1.32	1.36
NR3015TYD-3R6M	3.6	100	0.137	1.28	1.20
NR3015TYD-3R9M	3.9	100	0.137	1.20	1.20
NR3015TYD-4R3M	4.3	100	0.150	1.20	1.14
NR3015TYD-4R7M	4.7	100	0.163	1.10	1.09
NR3015TYD-5R1M	5.1	100	0.173	1.00	1.05
NR3015TYD-6R2M	6.2	100	0.254	1.00	0.86
NR3015TYD-6R8M	6.8	100	0.260	0.85	0.85
NR3015TYD-100M	10	100	0.325	0.72	0.77
NR3015TYD-120M	12	100	0.416	0.70	0.68
NR3015TYD-150M	15	100	0.455	0.66	0.65
NR3015TYD-180M	18	100	0.559	0.56	0.59
NR3015TYD-220M	22	100	0.598	0.52	0.57
NR3015TYD-270M	27	100	0.949	0.48	0.45
NR3015TYD-330M	33	100	1.066	0.44	0.43
NR3015TYD-390M	39	100	1.294	0.41	0.39
NR3015TYD-430M	43	100	1.378	0.37	0.37
NR3015TYD-470M	47	100	1.625	0.35	0.35
NR3015TYD-560M	56	100	1.664	0.33	0.34
NR3015TYD-620M	62	100	2.093	0.30	0.30
NR3015TYD-680M	68	100	3.510	0.28	0.23
NR3015TYD-101M	100	100	4.043	0.23	0.21
NR3015TYD-151M	150	100	4.940	0.18	0.19

Note:

Rated current The DC current at which the inductance decreases to 70 % of its initial value or when $\Delta t=40^{\circ}\text{C}$, whichever is lower ($T_a=25^{\circ}\text{C}$)

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ELECTRICAL CHARACTERISTICS

Part Number	L (μ H)	Test Freq. (KHz)	DCR Max. (Ω)	Saturation Current (A)	Heat Rating Current (A)
NR4010TYD-1R0N	1.0	100	0.067	2.00	1.90
NR4010TYD-1R5N	1.5	100	0.084	1.68	1.70
NR4010TYD-2R2M	2.2	100	0.102	1.20	1.50
NR4010TYD-3R3M	3.3	100	0.120	1.10	1.40
NR4010TYD-4R7M	4.7	100	0.168	0.95	1.20
NR4010TYD-6R8M	6.8	100	0.240	0.80	1.00
NR4010TYD-100M	10	100	0.360	0.62	0.75
NR4010TYD-150M	15	100	0.516	0.54	0.60
NR4010TYD-220M	22	100	0.684	0.45	0.50

Part Number	L (μ H)	Test Freq. (KHz)	DCR Max. (Ω)	Saturation Current (A)	Heat Rating Current (A)
NR4012TYD-R82N	0.82	100	0.065	3.02	1.65
NR4012TYD-1R0N	1.0	100	0.065	2.61	1.65
NR4012TYD-1R5N	1.5	100	0.085	2.10	1.46
NR4012TYD-1R8N	1.8	100	0.104	2.12	1.32
NR4012TYD-2R2N	2.2	100	0.104	1.76	1.32
NR4012TYD-3R3N	3.3	100	0.143	1.72	1.12
NR4012TYD-3R6N	3.6	100	0.143	1.20	1.12
NR4012TYD-4R3N	4.3	100	0.182	1.58	1.00
NR4012TYD-4R7N	4.7	100	0.163	1.15	1.05
NR4012TYD-5R6N	5.6	100	0.182	1.00	1.00
NR4012TYD-6R8M	6.8	100	0.257	0.85	0.84
NR4012TYD-100M	10	100	0.345	0.80	0.77
NR4012TYD-120M	12	100	0.377	0.66	0.70
NR4012TYD-150M	15	100	0.442	0.56	0.64
NR4012TYD-180M	18	100	0.611	0.55	0.55
NR4012TYD-220M	22	100	0.763	0.46	0.49
NR4012TYD-330M	33	100	1.053	0.42	0.42
NR4012TYD-360M	36	100	1.170	0.40	0.40
NR4012TYD-390M	39	100	1.430	0.55	0.37
NR4012TYD-470M	47	100	1.430	0.35	0.37
NR4012TYD-560M	56	100	1.625	0.33	0.33
NR4012TYD-680M	68	100	2.535	0.38	0.27
NR4012TYD-820M	82	100	2.782	0.28	0.26
NR4012TYD-101M	100	100	2.873	0.25	0.25

Note: **Rated current** The DC current at which the inductance decreases to 70 % of its initial value or when $\Delta t=40^{\circ}\text{C}$, whichever is lower ($T_a=25^{\circ}\text{C}$)

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ELECTRICAL CHARACTERISTICS

Part Number	L (μ H)	Test Freq. (KHz)	DCR Max. (Ω)	Saturation Current (A)	Heat Rating Current (A)
NR4018TYD-R47N	0.47	100	0.018	4.30	4.00
NR4018TYD-R68N	0.68	100	0.026	4.90	3.30
NR4018TYD-1R0N	1.0	100	0.033	4.80	2.00
NR4018TYD-1R5N	1.5	100	0.039	3.35	1.80
NR4018TYD-1R8N	1.8	100	0.044	3.00	2.00
NR4018TYD-2R2M	2.2	100	0.059	2.70	1.65
NR4018TYD-3R3M	3.3	100	0.091	2.45	1.23
NR4018TYD-4R7M	4.7	100	0.117	1.70	1.20
NR4018TYD-6R8M	6.8	100	0.143	1.45	1.06
NR4018TYD-100M	10	100	0.234	1.30	0.84
NR4018TYD-150M	15	100	0.325	0.94	0.65
NR4018TYD-220M	22	100	0.468	0.80	0.59
NR4018TYD-270M	27	100	0.611	0.47	0.52
NR4018TYD-330M	33	100	0.689	0.56	0.49
NR4018TYD-470M	47	100	0.845	0.57	0.42
NR4018TYD-680M	68	100	1.300	0.47	0.32
NR4018TYD-101M	100	100	2.275	0.40	0.25
NR4018TYD-151M	150	100	3.250	0.31	0.22
NR4018TYD-221M	220	100	5.200	0.27	0.17

Note:

Rated current The DC current at which the inductance decreases to 70 % of its initial value or when $\Delta t=40^{\circ}\text{C}$, whichever is lower($T_a=25^{\circ}\text{C}$)

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ELECTRICAL CHARACTERISTICS

Part Number	L (μ H)	Test Freq. (KHz)	DCR Max. (Ω)	Saturation Current (A)	Heat Rating Current (A)
NR4020TYD-R24N	0.24	100	0.014	10.5	4.50
NR4020TYD-R33N	0.33	100	0.016	7.50	3.30
NR4020TYD-R47N	0.47	100	0.029	7.00	3.30
NR4020TYD-R68N	0.68	100	0.036	6.40	2.80
SNR4020TYD-1R0N	1.0	100	0.038	4.78	2.15
NR4020TYD-1R2N	1.2	100	0.038	5.10	2.15
NR4020TYD-1R5N	1.5	100	0.046	4.45	1.98
NR4020TYD-2R2N	2.2	100	0.052	3.40	1.85
NR4020TYD-3R3M	3.3	100	0.091	3.20	1.40
NR4020TYD-3R6M	3.6	100	0.072	2.80	1.54
NR4020TYD-4R7M	4.7	100	0.098	2.35	1.34
NR4020TYD-5R1M	5.1	100	0.111	2.30	1.27
NR4020TYD-5R6M	5.6	100	0.117	2.20	1.22
NR4020TYD-6R2M	6.2	100	0.150	2.15	1.08
NR4020TYD-6R8M	6.8	100	0.163	2.20	1.04
NR4020TYD-7R5M	7.5	100	0.150	1.85	1.08
NR4020TYD-8R2M	8.2	100	0.163	1.75	1.04
NR4020TYD-100M	10	100	0.215	1.60	0.90
NR4020TYD-120M	12	100	0.228	1.50	0.88
NR4020TYD-150M	15	100	0.299	1.35	0.77
NR4020TYD-220M	22	100	0.455	1.05	0.62
NR4020TYD-270M	27	100	0.709	1.02	0.50
NR4020TYD-330M	33	100	0.715	0.85	0.49
NR4020TYD-390M	39	100	0.845	0.82	0.46
NR4020TYD-430M	43	100	0.858	0.77	0.45
NR4020TYD-470M	47	100	0.923	0.74	0.44
NR4020TYD-510M	51	100	0.975	0.70	0.42
NR4020TYD-560M	56	100	1.040	0.66	0.41
NR4020TYD-620M	62	100	1.170	0.65	0.39
NR4020TYD-680M	68	100	1.380	0.61	0.36
NR4020TYD-750M	75	100	1.510	0.70	0.35
NR4020TYD-820M	82	100	1.520	0.50	0.34
N4020TYD-101M	100	100	2.020	0.48	0.31

Note:

Rated current The DC current at which the inductance decreases to 70 % of its initial value or when $\Delta t=40^{\circ}\text{C}$, whichever is lower ($T_a=25^{\circ}\text{C}$)

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ELECTRICAL CHARACTERISTICS

Part Number	L (μ H)	Test Freq. (KHz)	DCR Max. (Ω)	Saturation Current (A)	Heat Rating Current (A)
NR4030TYD-R68N	0.68	100	0.013	6.80	4.56
NR4030TYD-R91N	0.91	100	0.017	6.25	4.15
NR4030TYD-1R0N	1.0	100	0.018	5.26	4.15
NR4030TYD-1R2N	1.2	100	0.020	5.80	3.82
NR4030TYD-1R5N	1.5	100	0.026	4.84	3.34
NR4030TYD-1R8N	1.8	100	0.033	5.40	3.20
NR4030TYD-2R2N	2.2	100	0.039	4.90	2.95
NR4030TYD-3R3M	3.3	100	0.052	3.30	2.40
NR4030TYD-3R6M	3.6	100	0.052	3.00	2.40
NR4030TYD-3R9M	3.9	100	0.074	3.00	2.10
NR4030TYD-4R3M	4.3	100	0.072	2.95	2.10
NR4030TYD-4R7M	4.7	100	0.078	2.90	2.00
NR4030TYD-5R6M	5.6	100	0.085	2.60	1.95
NR4030TYD-6R8M	6.8	100	0.117	2.75	1.60
NR4030TYD-7R5M	7.5	100	0.110	2.20	1.65
NR4030TYD-8R2M	8.2	100	0.117	2.10	1.60
NR4030TYD-100M	10	100	0.130	1.95	1.50
NR4030TYD-120M	12	100	0.175	1.70	1.30
NR4030TYD-150M	15	100	0.247	1.65	1.11
NR4030TYD-180M	18	100	0.260	1.40	1.10
NR4030TYD-220M	22	100	0.292	1.30	1.00
NR4030TYD-270M	27	100	0.338	1.15	0.90
NR4030TYD-330M	33	100	0.429	1.10	0.84
NR4030TYD-360M	36	100	0.436	1.05	0.83
NR4030TYD-390M	39	100	0.566	1.03	0.73
NR4030TYD-470M	47	100	0.579	0.95	0.72
NR4030TYD-560M	56	100	0.722	0.85	0.65
NR4030TYD-680M	68	100	1.128	0.72	0.52
NR4030TYD-750M	75	100	1.326	0.70	0.48
NR4030TYD-820M	82	100	1.378	0.66	0.47
NR4030TYD-101M	100	100	1.495	0.60	0.45
NR4030TYD-121M	120	100	1.755	0.55	0.42
NR4030TYD-151M	150	100	2.340	0.50	0.30
NR4030TYD-221M	220	100	3.250	0.40	0.35
NR4030TYD-331M	330	100	5.200	0.30	0.25
NR4030TYD-471M	470	100	9.360	0.30	0.20

Note:

Rated current The DC current at which the inductance decreases to 70 % of its initial value or when $\Delta t=40^{\circ}\text{C}$, whichever is lower($T_a=25^{\circ}\text{C}$)

◆ SMD Power Inductors NR-T Series

ELECTRICAL CHARACTERISTICS

Part Number	L (uH)	Test Freq. (KHz)	DCR Max. (Ω)	Saturation Current (A)	Heat Rating Current (A)
NR5012TYD-R22N	0.22	100	0.034	8.10	3.00
NR5012TYD-1R0N	1.0	100	0.068	4.40	2.00
NR5012TYD-1R5N	1.5	100	0.086	3.70	1.90
NR5012TYD-2R2N	2.2	100	0.108	3.10	1.70
NR5012TYD-3R3N	3.3	100	0.151	2.40	1.40
NR5012TYD-4R7N	4.7	100	0.197	2.20	1.30
NR5012TYD-6R8M	6.8	100	0.294	1.70	1.00
NR5012TYD-100M	10	100	0.413	1.40	0.85
NR5012TYD-150M	15	100	0.523	1.20	0.80
NR5012TYD-220M	22	100	0.858	0.88	0.60

Part Number	L (uH)	Test Freq. (KHz)	DCR Max. (Ω)	Saturation Current (A)	Heat Rating Current (A)
NR5020TYD-R47N	0.47	100	0.017	6.15	4.60
NR5020TYD-R56N	0.56	100	0.022	8.50	3.80
NR5020TYD-R68N	0.68	100	0.022	5.50	4.00
NR5020TYD-1R0N	1.0	100	0.026	4.10	3.80
NR5020TYD-1R2N	1.2	100	0.029	4.50	3.55
NR5020TYD-1R5N	1.5	100	0.034	4.10	3.20
NR5020TYD-2R2N	2.2	100	0.042	3.20	2.90
NR5020TYD-2R7N	2.7	100	0.049	2.90	2.70
NR5020TYD-3R3N	3.3	100	0.056	2.55	2.50
NR5020TYD-3R6N	3.6	100	0.056	2.80	2.50
NR5020TYD-3R9N	3.9	100	0.056	2.30	2.50
NR5020TYD-4R3M	4.3	100	0.074	2.50	2.20
NR5020TYD-4R7M	4.7	100	0.074	2.50	2.20
NR5020TYD-5R6M	5.6	100	0.083	2.30	2.05
NR5020TYD-6R8M	6.8	100	0.108	2.05	1.80
NR5020TYD-7R5M	7.5	100	0.117	1.85	1.75
NR5020TYD-8R2M	8.2	100	0.127	1.85	1.65
NR5020TYD-100M	10	100	0.143	1.70	1.55
NR5020TYD-150M	15	100	0.215	1.35	1.25
NR5020TYD-180M	18	100	0.260	1.25	1.15
NR5020TYD-220M	22	100	0.294	1.15	1.10
NR5020TYD-330M	33	100	0.507	0.92	0.90
NR5020TYD-470M	47	100	0.680	0.77	0.77

Note: **Rated current** The DC current at which the inductance decreases to 70 % of its initial value or when $\Delta t=40^{\circ}\text{C}$, whichever is lower ($T_a=25^{\circ}\text{C}$)

◆ SMD Power Inductors NR-T Series

ELECTRICAL CHARACTERISTICS

Part Number	L (μ H)	Test Freq. (KHz)	DCR Max. (Ω)	Saturation Current (A)	Heat Rating Current (A)
NR5040TYD-1R0N	1.0	100	0.016	7.35	4.90
NR5040TYD-1R2N	1.2	100	0.021	6.50	4.15
NR5040TYD-1R5N	1.5	100	0.020	6.30	4.30
NR5040TYD-1R8N	1.8	100	0.021	5.50	4.15
NR5040TYD-2R2N	2.2	100	0.025	4.90	3.80
NR5040TYD-2R7N	2.7	100	0.029	4.30	3.60
NR5040TYD-3R0N	3.0	100	0.029	4.15	3.60
NR5040TYD-3R3N	3.3	100	0.031	3.95	3.40
NR5040TYD-3R6M	3.6	100	0.034	3.80	3.30
NR5040TYD-3R9N	3.9	100	0.035	3.55	3.20
NR5040TYD-4R7N	4.7	100	0.039	3.50	3.00
NR5040TYD-5R6M	5.6	100	0.046	3.00	2.80
NR5040TYD-6R8M	6.8	100	0.056	2.90	2.50
NR5040TYD-8R2M	8.2	100	0.062	2.70	2.30
NR5040TYD-100M	10	100	0.083	2.35	2.10
NR5040TYD-150M	15	100	0.112	2.00	2.00
NR5040TYD-220M	22	100	0.168	1.60	1.50
NR5040TYD-330M	33	100	0.244	1.30	1.20
NR5040TYD-470M	47	100	0.354	1.10	1.00
NR5040TYD-680M	68	100	0.520	0.90	0.80
NR5040TYD-101M	100	100	0.728	0.75	0.70
NR5040TYD-151M	150	100	0.975	0.65	0.60
NR5040TYD-102M	1000	100	7.800	0.21	0.20

Note:

Rated current The DC current at which the inductance decreases to 70 % of its initial value or when $\Delta t=40^{\circ}\text{C}$, whichever is lower($T_a=25^{\circ}\text{C}$)

◆ SMD Power Inductors NR-T Series

ELECTRICAL CHARACTERISTICS

Part Number	L (μ H)	Test Freq. (KHz)	DCR Max. (Ω)	Saturation Current (A)	Heat Rating Current (A)
NR6020TYD-R50N	0.50	100	0.018	4.50	4.00
NR6020TYD-R68N	0.68	100	0.022	6.55	3.80
NR6020TYD-R82N	0.82	100	0.022	5.30	3.80
NR6020TYD-1R0N	1.0	100	0.020	4.15	3.50
NR6020TYD-1R2N	1.2	100	0.029	5.90	3.20
NR6020TYD-1R5N	1.5	100	0.029	4.25	3.20
NR6020TYD-1R8N	1.8	100	0.036	4.85	2.75
NR6020TYD-2R0N	2.0	100	0.046	4.10	2.60
NR6020TYD-2R2N	2.2	100	0.036	3.75	2.75
NR6020TYD-2R7N	2.7	100	0.046	3.90	2.60
NR6020TYD-3R3N	3.3	100	0.046	3.15	2.60
NR6020TYD-3R9N	3.9	100	0.064	3.25	2.10
NR6020TYD-4R3N	4.3	100	0.064	2.70	2.10
NR6020TYD-4R7N	4.7	100	0.075	3.00	2.00
NR6020TYD-5R6N	5.6	100	0.075	2.40	1.90
NR6020TYD-6R2N	6.2	100	0.103	2.30	1.80
NR6020TYD-6R8N	6.8	100	0.103	2.20	1.80
NR6020TYD-8R2N	8.2	100	0.137	2.10	1.40
NR6020TYD-100M	10	100	0.137	1.75	1.40
NR6020TYD-120M	12	100	0.156	1.45	1.30
NR6020TYD-150M	15	100	0.189	1.20	1.20
NR6020TYD-180M	18	100	0.234	1.20	1.08
NR6020TYD-220M	22	100	0.265	1.05	1.00
NR6020TYD-330M	33	100	0.390	0.95	0.84
NR6020TYD-470M	47	100	0.559	0.70	0.80
NR6020TYD-331M	330	100	3.419	0.27	0.33

Note:

Rated current The DC current at which the inductance decreases to 70 % of its initial value or when $\Delta t=40^{\circ}\text{C}$, whichever is lower($T_a=25^{\circ}\text{C}$)

◆ SMD Power Inductors NR-T Series

ELECTRICAL CHARACTERISTICS

Part Number	L (μ H)	Test Freq. (KHz)	DCR Max. (Ω)	Saturation Current (A)	Heat Rating Current (A)
NR6028TYD-R82N	0.82	100	0.016	6.50	5.20
NR6028TYD-1R0N	1.0	100	0.013	5.75	5.20
NR6028TYD-1R2N	1.2	100	0.017	6.40	4.58
NR6028TYD-1R5N	1.5	100	0.017	6.00	4.58
NR6028TYD-2R2N	2.2	100	0.026	5.10	3.75
NR6028TYD-2R7N	2.7	100	0.026	3.80	3.75
NR6028TYD-3R3N	3.3	100	0.033	4.15	3.48
NR6028TYD-4R7N	4.7	100	0.039	3.00	3.08
NR6028TYD-5R1N	5.1	100	0.056	3.20	2.60
NR6028TYD-6R2M	6.2	100	0.061	3.05	2.40
NR6028TYD-6R8M	6.8	100	0.061	2.60	2.40
NR6028TYD-8R2M	8.2	100	0.072	2.30	2.25
NR6028TYD-9R1M	9.1	100	0.096	2.55	2.15
NR6028TYD-100M	10	100	0.094	2.04	1.95
NR6028TYD-120M	12	100	0.104	1.80	1.85
NR6028TYD-150M	15	100	0.163	1.75	1.45
NR6028TYD-180M	18	100	0.156	1.52	1.45
NR6028TYD-220M	22	100	0.182	1.45	1.40
NR6028TYD-270M	27	100	0.202	1.50	1.32
NR6028TYD-330M	33	100	0.241	1.35	1.22
NR6028TYD-360M	36	100	0.280	1.25	1.13
NR6028TYD-390M	39	100	0.293	1.25	1.10
NR6028TYD-470M	47	100	0.410	1.15	1.06
NR6028TYD-560M	56	100	0.449	1.05	0.89
NR6028TYD-680M	68	100	0.468	0.80	0.86
NR6028TYD-750M	75	100	0.533	0.90	0.81
NR6028TYD-820M	82	100	0.650	0.80	0.70
NR6028TYD-101M	100	100	0.650	0.65	0.70
NR6028TYD-401M	400	100	2.808	0.30	0.40
NR6028TYD-102M	1000	100	7.540	0.18	0.23

Note:

Rated current The DC current at which the inductance decreases to 70 % of its initial value or when $\Delta t=40^{\circ}\text{C}$, whichever is lower($T_a=25^{\circ}\text{C}$)

◆ SMD Power Inductors NR-T Series

ELECTRICAL CHARACTERISTICS

Part Number	L (μ H)	Test Freq. (KHz)	DCR Max. (Ω)	Saturation Current (A)	Heat Rating Current (A)
NR6045TYD-R47N	0.47	100	0.008	15.00	6.50
NR6045TYD-R56N	0.56	100	0.008	14.00	6.50
NR6045TYD-R68N	0.68	100	0.008	11.00	5.70
NR6045TYD-R82N	0.82	100	0.010	10.35	5.90
NR6045TYD-1R0N	1.0	100	0.014	9.85	5.14
NR6045TYD-1R2N	1.2	100	0.013	8.35	5.40
NR6045TYD-1R3N	1.3	100	0.013	8.35	5.40
NR6045TYD-1R5N	1.5	100	0.016	8.80	4.95
NR6045TYD-1R8N	1.8	100	0.016	7.60	4.95
NR6045TYD-2R2N	2.2	100	0.018	6.75	4.60
NR6045TYD-2R3N	2.3	100	0.027	6.00	3.50
NR6045TYD-2R7N	2.7	100	0.020	5.75	4.30
NR6045TYD-3R0N	3.0	100	0.026	5.60	3.80
NR6045TYD-3R3N	3.3	100	0.027	5.90	3.70
NR6045TYD-3R6N	3.6	100	0.027	5.25	3.70
NR6045TYD-4R3M	4.3	100	0.030	4.45	3.50
NR6045TYD-4R5M	4.5	100	0.034	4.97	3.30
NR6045TYD-4R7M	4.7	100	0.034	4.97	3.30
NR6045TYD-5R1M	5.1	100	0.034	4.40	3.30
NR6045TYD-5R6M	5.6	100	0.038	4.15	3.15
NR6045TYD-6R2M	6.2	100	0.040	4.43	3.00
NR6045TYD-6R3M	6.3	100	0.040	4.43	3.00
NR6045TYD-6R8M	6.8	100	0.040	3.90	3.00
NR6045TYD-7R5M	7.5	100	0.044	3.50	2.90
NR6045TYD-8R2M	8.2	100	0.056	3.90	2.60
NR6045TYD-9R1M	9.1	100	0.056	3.35	2.60
NR6045TYD-100M	10	100	0.062	3.20	2.45
NR6045TYD-120M	12	100	0.075	2.80	2.20
NR6045TYD-150M	15	100	0.088	2.50	2.05
NR6045TYD-180M	18	100	0.105	2.20	1.85
NR6045TYD-220M	22	100	0.116	2.05	1.80
NR6045TYD-270M	27	100	0.133	1.90	1.65

Note:

Rated current The DC current at which the inductance decreases to 70 % of its initial value or when $\Delta t=40^{\circ}\text{C}$, whichever is lower($T_a=25^{\circ}\text{C}$)

◆ SMD Power Inductors NR-T Series

ELECTRICAL CHARACTERISTICS

Part Number	L (μ H)	Test Freq. (KHz)	DCR Max. (Ω)	Saturation Current (A)	Heat Rating Current (A)
NR6045TYD-300M	30	100	0.172	1.70	1.50
NR6045TYD-330M	33	100	0.178	1.65	1.45
NR6045TYD-360M	36	100	0.225	1.62	1.40
NR6045TYD-390M	39	100	0.234	1.50	1.25
NR6045TYD-430M	43	100	0.260	1.63	1.20
NR6045TYD-470M	47	100	0.260	1.40	1.20
NR6045TYD-510M	51	100	0.269	1.35	1.15
NR6045TYD-560M	56	100	0.287	1.30	1.10
NR6045TYD-620M	62	100	0.306	1.25	1.10
NR6045TYD-680M	68	100	0.376	1.20	1.00
NR6045TYD-750M	75	100	0.397	1.15	0.95
NR6045TYD-820M	82	100	0.443	1.05	0.90
NR6045TYD-910M	91	100	0.467	1.00	0.85
NR6045TYD-101M	100	100	0.563	0.95	0.80
NR6045TYD-121M	120	100	0.629	0.85	0.77
NR6045TYD-151M	150	100	0.754	0.80	0.70
NR6045TYD-221M	220	100	1.084	0.70	0.59
NR6045TYD-331M	330	100	1.651	0.57	0.57
NR6045TYD-471M	470	100	2.340	0.50	0.42
NR6045TYD-681M	680	100	3.250	0.42	0.33
NR6045TYD-102M	1000	100	5.850	0.30	0.30
NR6045TYD-152M	1500	100	8.450	0.24	0.21

Note:

Rated current The DC current at which the inductance decreases to 70 % of its initial value or when $\Delta t=40^{\circ}\text{C}$, whichever is lower($T_a=25^{\circ}\text{C}$)

◆ SMD Power Inductors NR-T Series

ELECTRICAL CHARACTERISTICS

Part Number	L (μ H)	Test Freq. (KHz)	DCR Max. (Ω)	Saturation Current (A)	Heat Rating Current (A)
NR8040TYD-R82N	0.82	100	0.010	13.80	6.30
NR8040TYD-1R0N	1.0	100	0.010	9.85	6.30
NR8040TYD-1R2N	1.2	100	0.013	10.00	5.65
SR8040TYD-1R5N	1.5	100	0.013	8.15	5.65
NR8040TYD-2R2N	2.2	100	0.016	7.10	5.15
NR8040TYD-3R3N	3.3	100	0.022	6.50	4.40
NR8040TYD-3R6N	3.6	100	0.022	7.52	4.35
NR8040TYD-3R9N	3.9	100	0.022	5.75	4.35
NR8040TYD-4R7N	4.7	100	0.025	5.90	4.10
NR8040TYD-5R6N	5.6	100	0.027	6.00	3.85
NR8040TYD-6R8M	6.8	100	0.031	4.55	3.60
NR8040TYD-8R2M	8.2	100	0.034	4.20	3.45
NR8040TYD-100M	10	100	0.038	3.60	3.30
NR8040TYD-150M	15	100	0.061	2.95	2.60
NR8040TYD-180M	18	100	0.069	2.70	2.40
NR8040TYD-220M	22	100	0.090	2.40	2.10
NR8040TYD-270M	27	100	0.101	2.15	2.00
NR8040TYD-330M	33	100	0.126	2.05	1.80
NR8040TYD-360M	36	100	0.133	2.00	1.75
NR8040TYD-390M	39	100	0.139	1.95	1.70
NR8040TYD-430M	43	100	0.147	1.90	1.65
NR8040TYD-470M	47	100	0.177	1.75	1.55
NR8040TYD-560M	56	100	0.192	1.55	1.45
NR8040TYD-620M	62	100	0.237	1.50	1.30
NR8040TYD-680M	68	100	0.255	1.45	1.25
NR8040TYD-820M	82	100	0.293	1.30	1.15
NR8040TYD-101M	100	100	0.377	1.15	1.00
NR8040TYD-121M	120	100	0.434	1.05	0.95
NR8040TYD-151M	150	100	0.533	1.10	0.85
NR8040TYD-181M	180	100	0.676	0.95	0.83
NR8040TYD-221M	220	100	0.779	0.85	0.80
NR8040TYD-331M	330	100	1.156	0.68	0.64
NR8040TYD-471M	470	100	1.625	0.60	0.50
NR8040TYD-681M	680	100	2.652	0.50	0.45
NR8040TYD-102M	1000	100	3.640	0.40	0.35
NR8040TYD-152M	1500	100	6.500	0.32	0.26

Note:

Rated current The DC current at which the inductance decreases to 70 % of its initial value or when $\Delta t=40^{\circ}\text{C}$, whichever is lower($T_a=25^{\circ}\text{C}$)

◆ SMD Power Inductors NR-T Series

ELECTRICAL CHARACTERISTICS

Part Number	L (μ H)	Test Freq. (KHz)	DCR Max. (Ω)	Saturation Current (A)	Heat Rating Current (A)
NR8065TYD-1R0M	1.0	100	0.011	20.0	7.00
NR8065TYD-3R3M	3.3	100	0.018	9.50	5.10
NR8065TYD-4R7M	4.7	100	0.022	8.50	4.70
NR8065TYD-5R6M	5.6	100	0.026	8.00	4.50
NR8065TYD-8R2M	8.2	100	0.031	7.00	4.20
NR8065TYD-100M	10	100	0.044	6.50	3.20
NR8065TYD-220M	22	100	0.065	4.30	2.85
NR8065TYD-101M	100	100	0.280	2.00	1.35
NR8065TYD-151M	150	100	0.440	1.60	0.95
NR8065TYD-221M	220	100	0.656	1.20	0.80
NR8065TYD-331M	330	100	0.840	1.00	0.75
NR8065TYD-431M	430	100	1.200	1.00	0.61
NR8065TYD-471M	470	100	1.560	0.95	0.55
NR8065TYD-102M	1000	100	2.820	0.65	0.40
NR8065TYD-152M	1500	100	4.380	0.54	0.32
NR8065TYD-222M	2200	100	6.000	0.45	0.27
NR8065TYD-332M	3300	100	8.760	0.36	0.23
NR8065TYD-472M	4700	100	14.58	0.29	0.18
NR8065TYD-682M	6800	100	22.44	0.26	0.14
NR8065TYD-103M	10000	100	27.36	0.20	0.13

Note:

Rated current The DC current at which the inductance decreases to 70 % of its initial value or when $\Delta t=40^{\circ}\text{C}$, whichever is lower($T_a=25^{\circ}\text{C}$)