iMagnetics

Magnetics Solution Provider

贴片电感

SMT Power Inductor



http://www.imagnetics.cn

广州爱磁电子有限公司

Guangzhou iMagnetics Electronics Co LTD

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SMT POWER INDUCTORS

CD Series

Features

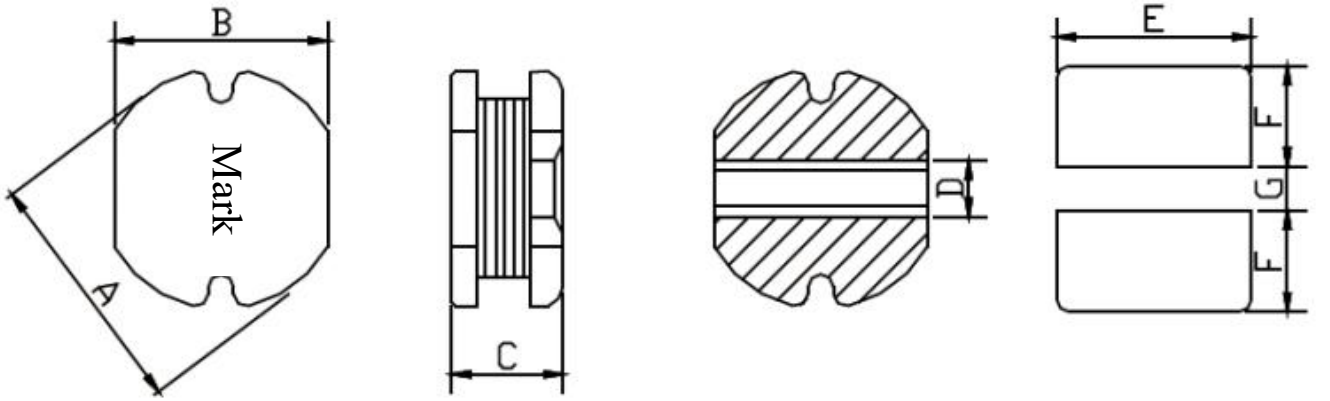


- High heat resistance and excellent solderability/高耐热性和可焊性强
- Excellent terminal strength construction/端子强度结构较佳
- Surface mounted inductor with high current rating/表面贴装的高电流电感
- Applied to automatic plug-in machine and packed by reel tape/可用于自动插件机器，卷轴包装

Application

- Digital camera, notebook, PC, LCD TV set, DC to DC converters, DC to AC inverters, etc
  数码相机，笔记本电脑，台式电脑，液晶电视机，直流-直流整流器，直流-交流换流器等

Mechanical



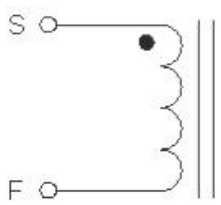
Dimensions (mm)

Type	A	B	C	D Ref.	E Ref.	F Ref.	G Ref.
CD31	3.5±0.3	3.0±0.3	1.6±0.3	1.0	3.5	1.3	1.0
CD32	3.5±0.3	3.0±0.3	2.1±0.3	1.0	3.2	1.3	1.0
CD42	4.5±0.3	4.0±0.3	2.0±0.3	1.4	4.5	1.8	1.5
CD43	4.5±0.3	4.0±0.3	3.2±0.3	1.4	4.5	1.8	1.5
CD52	5.8±0.3	5.2±0.3	2.5±0.3	1.6	5.8	2.2	1.6
CD53	5.8±0.3	5.2±0.3	3.5±0.3	1.5	5.8	2.2	1.7
CD54	5.8±0.3	5.2±0.3	4.5±0.3	1.6	5.8	2.2	1.6
CD73	7.8±0.3	7.0±0.3	3.5±0.3	2.4	7.5	3.0	2.0
CD75	7.8±0.3	7.0±0.3	5.0±0.3	2.4	7.5	3.0	2.4
CD104	10.0±0.3	9.0±0.3	4.0±0.3	2.9	9.5	3.7	2.5
CD105	10.0±0.3	9.0±0.3	5.4±0.3	2.9	9.5	3.8	2.5

SMT POWER INDUCTORS

CD Series

Schematic



CD31 Series

Electrical Specifications@25℃

Part Number	Inductance (μH)	Test Frequency (kHz/V)	D.C.R. (Ω Max.)	Rated Current (A Max.)
CD.31.1R0M	1.0	100 / 0.25	0.049	1.70
CD.31.1R8M	1.8	100 / 0.25	0.068	1.50
CD.31.2R2M	2.2	100 / 0.25	0.089	1.40
CD.31.2R7M	2.7	100 / 0.25	0.091	1.30
CD.31.3R3M	3.3	100 / 0.25	0.120	1.10
CD.31.4R7M	4.7	100 / 0.25	0.163	0.95
CD.31.5R6M	5.6	100 / 0.25	0.182	0.90
CD.31.6R8M	6.8	100 / 0.25	0.234	0.85
CD.31.8R2M	8.2	100 / 0.25	0.260	0.80
CD.31.100K	10	100 / 0.25	0.357	0.68
CD.31.120K	12	100 / 0.25	0.377	0.65
CD.31.150K	15	100 / 0.25	0.442	0.58
CD.31.180K	18	100 / 0.25	0.710	0.54
CD.31.220K	22	100 / 0.25	0.850	0.50
CD.31.270K	27	100 / 0.25	0.890	0.45
CD.31.330K	33	100 / 0.25	1.01	0.40
CD.31.390K	39	100 / 0.25	1.11	0.35
CD.31.470K	47	100 / 0.25	1.68	0.30
CD.31.820K	82	100 / 0.25	2.60	0.25
CD.31.101K	100	100 / 0.25	3.05	0.23
CD.31.151K	150	100 / 0.25	4.29	0.20
CD.31.221K	220	100 / 0.25	7.54	0.16

1. Tolerance: M:±20%, K:±10%
2. Rated Current: DC current when the inductance drops approximate 10% from its value without current.

SMT POWER INDUCTORS

CD Series

CD32 Series

Electrical Specifications@25℃

Part Number	Inductance (μH)	Test Frequency (kHz/V)	D.C.R. (Ω Max.)	Rated Current (A Max.)
CD.32.R24N	0.24	100 / 0.25	0.020	6.00
CD.32.R56N	0.56	100 / 0.25	0.030	4.30
CD.32.1R0M	1.0	100 / 0.25	0.035	3.50
CD.32.1R5M	1.5	100 / 0.25	0.052	2.60
CD.32.2R2M	2.2	100 / 0.25	0.073	2.10
CD.32.2R7M	2.7	100 / 0.25	0.101	2.00
CD.32.3R3M	3.3	100 / 0.25	0.109	1.90
CD.32.3R9M	3.9	100 / 0.25	0.148	1.60
CD.32.4R7M	4.7	100 / 0.25	0.170	1.50
CD.32.5R6M	5.6	100 / 0.25	0.180	1.40
CD.32.6R8M	6.8	100 / 0.25	0.219	1.20
CD.32.8R2M	8.2	100 / 0.25	0.235	1.10
CD.32.100K	10	100 / 0.25	0.350	1.00
CD.32.120K	12	100 / 0.25	0.390	0.95
CD.32.150K	15	100 / 0.25	0.468	0.90
CD.32.180K	18	100 / 0.25	0.546	0.80
CD.32.220K	22	100 / 0.25	0.650	0.70
CD.32.270K	27	100 / 0.25	0.720	0.65
CD.32.330K	33	100 / 0.25	0.910	0.60
CD.32.390K	39	100 / 0.25	1.050	0.55
CD.32.470K	47	100 / 0.25	1.380	0.50
CD.32.560K	56	100 / 0.25	1.530	0.45
CD.32.680K	68	100 / 0.25	1.800	0.40
CD.32.820K	82	100 / 0.25	2.390	0.35
CD.32.101K	100	100 / 0.25	3.120	0.31
CD.32.121K	120	100 / 0.25	3.300	0.29
CD.32.151K	150	100 / 0.25	3.960	0.27
CD.32.181K	180	100 / 0.25	4.200	0.25
CD.32.221K	220	100 / 0.25	6.000	0.22
CD.32.271K	270	100 / 0.25	6.600	0.20
CD.32.331K	330	100 / 0.25	9.600	0.18
CD.32.391K	390	100 / 0.25	10.920	0.16
CD.32.471K	470	100 / 0.25	13.080	0.15
CD.32.561K	560	100 / 0.25	14.400	0.13
CD.32.681K	680	100 / 0.25	16.800	0.11
CD.32.821K	820	100 / 0.25	24.000	0.10
CD.32.102K	1000	100 / 0.25	28.600	0.05

1. Tolerance: N:±30%, M:±20%, K:±10%
2. Rated Current: DC current when the inductance drops approximate 10% from its value without current.

SMT POWER INDUCTORS

CD Series

CD42 Series

Electrical Specifications@25℃

Part Number	Inductance (μH)	Test Frequency (kHz/V)	D.C.R. (Ω Max.)	Rated Current (A Max.)
CD.42.1R0M	1.0	100 / 0.25	0.030	2.50
CD.42.1R5M	1.5	100 / 0.25	0.040	1.80
CD.42.2R2M	2.2	100 / 0.25	0.050	1.60
CD.42.3R3M	3.3	100 / 0.25	0.060	1.50
CD.42.4R7M	4.7	100 / 0.25	0.100	1.30
CD.42.5R6M	5.6	100 / 0.25	0.110	1.10
CD.42.6R8M	6.8	100 / 0.25	0.120	1.05
CD.42.8R2M	8.2	100 / 0.25	0.150	1.00
CD.42.100K	10	100 / 0.25	0.170	0.92
CD.42.120K	12	100 / 0.25	0.180	0.82
CD.42.150K	15	100 / 0.25	0.200	0.80
CD.42.180K	18	100 / 0.25	0.250	0.73
CD.42.220K	22	100 / 0.25	0.427	0.70
CD.42.270K	27	100 / 0.25	0.477	0.62
CD.42.330K	33	100 / 0.25	0.525	0.60
CD.42.390K	39	100 / 0.25	0.654	0.56
CD.42.470K	47	100 / 0.25	0.668	0.54
CD.42.560K	56	100 / 0.25	0.730	0.52
CD.42.680K	68	100 / 0.25	1.360	0.45
CD.42.820K	82	100 / 0.25	1.450	0.42
CD.42.101K	100	100 / 0.25	1.500	0.38
CD.42.121K	120	100 / 0.25	1.530	0.35
CD.42.151K	150	100 / 0.25	2.400	0.31
CD.42.181K	180	100 / 0.25	2.86	0.28
CD.42.221K	220	100 / 0.25	4.10	0.25
CD.42.271K	270	100 / 0.25	5.14	0.24
CD.42.331K	330	100 / 0.25	7.15	0.21
CD.42.391K	390	100 / 0.25	7.43	0.20
CD.42.471K	470	100 / 0.25	8.19	0.18
CD.42.681K	680	100 / 0.25	10.92	0.13
CD.42.102K	1000	100 / 0.25	24.23	0.12
CD.42.152K	1500	100 / 0.25	25.56	0.09

1. Tolerance: M:±20%, K:±10%
2. Rated Current: DC current when the inductance drops approximate 10% from its value without current.

SMT POWER INDUCTORS

CD Series

CD43 Series

Electrical Specifications@25℃

Part Number	Inductance (μH)	Test Frequency (kHz/V)	D.C.R. (Ω Max.)	Rated Current (A Max.)
CD.43.1R0M	1.0	100 / 0.25	0.020	2.60
CD.43.1R5M	1.5	100 / 0.25	0.024	2.50
CD.43.2R2M	2.2	100 / 0.25	0.040	2.30
CD.43.3R3M	3.3	100 / 0.25	0.050	2.10
CD.43.5R6M	5.6	100 / 0.25	0.065	1.70
CD.43.6R8M	6.8	100 / 0.25	0.091	1.50
CD.43.8R2M	8.2	100 / 0.25	0.120	1.30
CD.43.100K	10	100 / 0.25	0.140	1.20
CD.43.120K	12	100 / 0.25	0.150	1.10
CD.43.130K	13	100 / 0.25	0.170	1.05
CD.43.150K	15	100 / 0.25	0.185	1.00
CD.43.180K	18	100 / 0.25	0.230	0.90
CD.43.220K	22	100 / 0.25	0.270	0.75
CD.43.270K	27	100 / 0.25	0.331	0.70
CD.43.330K	33	100 / 0.25	0.403	0.65
CD.43.390K	39	100 / 0.25	0.430	0.60
CD.43.470K	47	100 / 0.25	0.530	0.53
CD.43.560K	56	100 / 0.25	0.611	0.50
CD.43.680K	68	100 / 0.25	0.840	0.45
CD.43.820K	82	100 / 0.25	0.880	0.43
CD.43.101K	100	100 / 0.25	1.20	0.40
CD.43.121K	120	100 / 0.25	1.30	0.37
CD.43.151K	150	100 / 0.25	1.60	0.31
CD.43.181K	180	100 / 0.25	2.00	0.28
CD.43.221K	220	100 / 0.25	2.58	0.25
CD.43.271K	270	100 / 0.25	3.05	0.23
CD.43.331K	330	100 / 0.25	3.55	0.21
CD.43.391K	390	100 / 0.25	3.96	0.19
CD.43.471K	470	100 / 0.25	5.40	0.17
CD.43.561K	560	100 / 0.25	5.90	0.16
CD.43.681K	680	100 / 0.25	8.04	0.15
CD.43.821K	820	100 / 0.25	10.5	0.14
CD.43.102K	1000	100 / 0.25	10.7	0.12
CD.43.122K	1200	100 / 0.25	15.6	0.11

1. Tolerance: M:±20%, K:±10%
2. Rated Current: DC current when the inductance drops approximate 10% from its value without current.

SMT POWER INDUCTORS

CD Series

CD43 Series

Electrical Specifications@25℃

Part Number	Inductance (μH)	Test Frequency (kHz/V)	D.C.R. (Ω Max.)	Rated Current (A Max.)
CD.43.152K	1500	100 / 0.25	16.8	0.10
CD.43.182K	1800	100 / 0.25	19.5	0.09
CD.43.202K	2000	100 / 0.25	20.4	0.08
CD.43.222K	2200	100 / 0.25	28.0	0.07
CD.43.252K	2500	100 / 0.25	30.0	0.06
CD.43.302K	3000	100 / 0.25	34.0	0.05
CD.43.332K	3300	100 / 0.25	35.0	0.04

1. Tolerance: K:±10%
2. Rated Current: DC current when the inductance drops approximate 10% from its value without current.

SMT POWER INDUCTORS

CD Series

CD52 Series

Electrical Specifications@25℃

Part Number	Inductance (μH)	Test Frequency (kHz/V)	D.C.R. (Ω Max.)	Saturation Current (A Max.)
CD.52.1R0M	1.0	100/0.25	0.024	5.50
CD.52.1R5M	1.5	100/0.25	0.037	4.70
CD.52.1R8M	1.8	100/0.25	0.039	4.50
CD.52.2R2M	2.2	100/0.25	0.042	4.20
CD.52.2R7M	2.7	100/0.25	0.046	3.90
CD.52.3R3M	3.3	100/0.25	0.063	3.30
CD.52.3R9M	3.9	100/0.25	0.083	3.00
CD.52.4R7M	4.7	100/0.25	0.075	2.80
CD.52.5R6M	5.6	100/0.25	0.088	2.50
CD.52.6R8M	6.8	100/0.25	0.095	2.20
CD.52.8R2M	8.2	100/0.25	0.118	2.00
CD.52.100K	10	100/0.25	0.151	1.90
CD.52.120K	12	100/0.25	0.156	1.70
CD.52.150K	15	100/0.25	0.234	1.50
CD.52.180K	18	100/0.25	0.240	1.30
CD.52.220K	22	100/0.25	0.298	1.20
CD.52.270K	27	100/0.25	0.325	1.10
CD.52.330K	33	100/0.25	0.408	0.95
CD.52.390K	39	100/0.25	0.434	0.92
CD.52.470K	47	100/0.25	0.569	0.88
CD.52.560K	56	100/0.25	0.638	0.80
CD.52.680K	68	100/0.25	0.800	0.75
CD.52.820K	82	100/0.25	0.880	0.70
CD.52.850K	85	100/0.25	1.050	0.68
CD.52.910K	91	100/0.25	1.130	0.65
CD.52.101K	100	100/0.25	1.130	0.63
CD.52.121K	120	100/0.25	1.330	0.55
CD.52.151K	150	100/0.25	1.920	0.45
CD.52.181K	180	100/0.25	2.05	0.41
CD.52.221K	220	100/0.25	2.50	0.38
CD.52.271K	270	100/0.25	3.02	0.35
CD.52.331K	330	100/0.25	3.87	0.31
CD.52.391K	390	100/0.25	4.47	0.28
CD.52.471K	470	100/0.25	5.66	0.26
CD.52.561K	560	100/0.25	6.33	0.24
CD.52.681K	680	100/0.25	7.53	0.22
CD.52.821K	820	100/0.25	9.54	0.20
CD.52.102K	1000	100/0.25	14.9	0.18
CD.52.132K	1300	100/0.25	18.2	0.15
CD.52.202K	2000	100/0.25	28.6	0.13
CD.52.222K	2200	100/0.25	34.0	0.12
CD.52.252K	2500	100/0.25	36.4	0.11

1. Tolerance: M:±20%, K:±10%

2. Saturation Current: The rated DC current is that causes at 10% Max. inductance reduction from the initial value.

SMT POWER INDUCTORS

CD Series

CD53 Series

Electrical Specifications@25℃

Part Number	Inductance (μH)	Test Frequency (kHz/V)	D.C.R. (Ω Max.)	Rated Current (A Max.)
CD.53.1R0M	1.0	100 / 0.25	0.017	3.70
CD.53.1R5M	1.5	100 / 0.25	0.020	3.50
CD.53.1R8M	1.8	100 / 0.25	0.022	3.00
CD.53.2R2M	2.2	100 / 0.25	0.026	2.85
CD.53.2R5M	2.5	100 / 0.25	0.034	2.70
CD.53.3R3M	3.3	100 / 0.25	0.040	2.40
CD.53.3R9M	3.9	100 / 0.25	0.046	2.25
CD.53.4R7M	4.7	100 / 0.25	0.052	1.90
CD.53.5R6M	5.6	100 / 0.25	0.058	1.88
CD.53.6R8M	6.8	100 / 0.25	0.071	1.87
CD.53.8R2M	8.2	100 / 0.25	0.081	1.82
CD.53.1R5M	1.5	100 / 0.25	0.024	3.50
CD.53.2R2M	2.2	100 / 0.25	0.030	2.85
CD.53.3R3M	3.3	100 / 0.25	0.042	2.40
CD.53.4R7M	4.7	100 / 0.25	0.059	1.90
CD.53.6R8M	6.8	100 / 0.25	0.073	1.87
CD.53.100K	10	100 / 0.25	0.094	1.78
CD.53.120K	12	100 / 0.25	0.126	1.60
CD.53.150K	15	100 / 0.25	0.145	1.58
CD.53.180K	18	100 / 0.25	0.160	1.30
CD.53.220K	22	100 / 0.25	0.192	1.29
CD.53.270K	27	100 / 0.25	0.242	1.10
CD.53.330K	33	100 / 0.25	0.325	0.95
CD.53.390K	39	100 / 0.25	0.369	0.92
CD.53.470K	47	100 / 0.25	0.436	0.82
CD.53.560K	56	100 / 0.25	0.553	0.80
CD.53.680K	68	100 / 0.25	0.628	0.76
CD.53.820K	82	100 / 0.25	0.785	0.67
CD.53.101K	100	100 / 0.25	0.848	0.62
CD.53.121K	120	100 / 0.25	1.030	0.60
CD.53.151K	150	100 / 0.25	1.44	0.48
CD.53.181K	180	100 / 0.25	1.64	0.43
CD.53.221K	220	100 / 0.25	2.08	0.37
CD.53.271K	270	100 / 0.25	2.46	0.33
CD.53.331K	330	100 / 0.25	3.71	0.30

1. Tolerance: M:±20%, K:±10%
2. Rated Current: DC current when the inductance drops approximate 10% from its value without current.

SMT POWER INDUCTORS

CD Series

CD53 Series — Electrical Specifications@25℃

Part Number	Inductance (μH)	Test Frequency (kHz/V)	D.C.R. (Ω Max.)	Rated Current (A Max.)
CD.53.391K	390	100 / 0.25	4.24	0.26
CD.53.471K	470	100 / 0.25	4.42	0.24
CD.53.561K	560	100 / 0.25	4.68	0.22
CD.53.681K	680	100 / 0.25	6.42	0.21
CD.53.821K	820	100 / 0.25	7.36	0.18
CD.53.102K	1000	100 / 0.25	9.73	0.17
CD.53.152K	1500	100 / 0.25	15.0	0.15
CD.53.222K	2200	100 / 0.25	24.7	0.12
CD.53.392K	3900	100 / 0.25	42.0	0.11
CD.53.562K	5600	100 / 0.25	59.0	0.09
CD.53.123K	12000	100 / 0.25	124.0	0.06

1. Tolerance: K:±10%
2. Rated Current: DC current when the inductance drops approximate 10% from its value without current.

SMT POWER INDUCTORS

CD Series

CD54 Series

Electrical Specifications@25℃

Part Number	Inductance (μH)	Test Frequency (kHz/V)	D.C.R. (Ω Max.)	Rated Current (A Max.)
CD.54.1R0N	1.0	100 / 0.25	0.020	6.00
CD.54.1R5M	1.5	100 / 0.25	0.023	5.50
CD.54.1R8M	1.8	100 / 0.25	0.025	5.00
CD.54.2R2M	2.2	100 / 0.25	0.030	4.50
CD.54.2R7M	2.7	100 / 0.25	0.030	4.20
CD.54.3R3M	3.3	100 / 0.25	0.032	3.70
CD.54.3R6M	3.6	100 / 0.25	0.034	3.40
CD.54.3R9M	3.9	100 / 0.25	0.034	3.40
CD.54.4R7M	4.7	100 / 0.25	0.042	3.10
CD.54.5R6M	5.6	100 / 0.25	0.045	2.80
CD.54.6R8M	6.8	100 / 0.25	0.056	2.40
CD.54.8R2M	8.2	100 / 0.25	0.062	2.20
CD.54.100K	10	100 / 0.25	0.075	1.90
CD.54.100K	10	100 / 0.25	0.065	1.80
CD.54.120K	12	100 / 0.25	0.085	1.60
CD.54.150K	15	100 / 0.25	0.096	1.45
CD.54.180K	18	100 / 0.25	0.107	1.40
CD.54.220K	22	100 / 0.25	0.143	1.30
CD.54.270K	27	100 / 0.25	0.169	1.10
CD.54.330K	33	100 / 0.25	0.208	1.00
CD.54.390K	39	100 / 0.25	0.215	0.95
CD.54.470K	47	100 / 0.25	0.315	0.90
CD.54.500K	50	100 / 0.25	0.360	0.87
CD.54.560K	56	100 / 0.25	0.377	0.85
CD.54.680K	68	100 / 0.25	0.415	0.75
CD.54.820K	82	100 / 0.25	0.468	0.68
CD.54.101K	100	100 / 0.25	0.611	0.63
CD.54.121K	120	100 / 0.25	0.754	0.53
CD.54.151K	150	100 / 0.25	0.845	0.50
CD.54.171K	170	100 / 0.25	0.960	0.49
CD.54.181K	180	100 / 0.25	0.975	0.48
CD.54.221K	220	100 / 0.25	1.25	0.42
CD.54.271K	270	100 / 0.25	1.44	0.40
CD.54.331K	330	100 / 0.25	1.92	0.35
CD.54.391K	390	100 / 0.25	2.20	0.30

1. Tolerance: N:±30%, M:±20%, K:±10%
2. Rated Current: DC current when the inductance drops approximate 10% from its value without current.

SMT POWER INDUCTORS

CD Series

CD54 Series

Electrical Specifications@25℃

Part Number	Inductance (μH)	Test Frequency (kHz/V)	D.C.R. (Ω Max.)	Rated Current (A Max.)
CD.54.471K	470	100 / 0.25	2.90	0.28
CD.54.561K	560	100 / 0.25	3.20	0.24
CD.54.681K	680	100 / 0.25	3.50	0.23
CD.54.801K	800	100 / 0.25	4.70	0.22
CD.54.821K	820	100 / 0.25	4.80	0.21
CD.54.102K	1000	100 / 0.25	6.00	0.17
CD.54.122K	1200	100 / 0.25	6.40	0.16
CD.54.152K	1500	100 / 0.25	8.80	0.15
CD.54.182K	1800	100 / 0.25	10.66	0.14
CD.54.202K	2000	100 / 0.25	12.60	0.13
CD.54.222K	2200	100 / 0.25	13.40	0.12
CD.54.252K	2500	100 / 0.25	14.00	0.11
CD.54.302K	3000	100 / 0.25	16.20	0.10
CD.54.332K	3300	100 / 0.25	17.20	0.10
CD.54.352K	3500	100 / 0.25	18.90	0.09
CD.54.402K	4000	100 / 0.25	23.00	0.09
CD.54.452K	4500	100 / 0.25	25.00	0.08
CD.54.472K	4700	100 / 0.25	25.20	0.08
CD.54.562K	5600	100 / 0.25	31.20	0.07
CD.54.103K	10000	100 / 0.25	59.80	0.04

1. Tolerance: K:±10%
2. Rated Current: DC current when the inductance drops approximate 10% from its value without current.

SMT POWER INDUCTORS

CD Series

CD73 Series

Electrical Specifications@25℃

Part Number	Inductance (μH)	Test Frequency (kHz/V)	D.C.R. (Ω Max.)	Rated Current (A Max.)
CD.73.1R0M	1.0	100 / 0.25	0.010	7.50
CD.73.1R2M	1.2	100 / 0.25	0.013	6.50
CD.73.2R2M	2.2	100 / 0.25	0.018	5.50
CD.73.2R7M	2.7	100 / 0.25	0.021	5.00
CD.73.3R3M	3.3	100 / 0.25	0.025	4.50
CD.73.3R9M	3.9	100 / 0.25	0.029	3.70
CD.73.4R7M	4.7	100 / 0.25	0.035	3.50
CD.73.5R6M	5.6	100 / 0.25	0.040	3.00
CD.73.6R8M	6.8	100 / 0.25	0.048	2.80
CD.73.8R2M	8.2	100 / 0.25	0.052	2.30
CD.73.2R2M	2.2	100 / 0.25	0.021	5.20
CD.73.3R3M	3.3	100 / 0.25	0.026	4.50
CD.73.4R7M	4.7	100 / 0.25	0.033	3.50
CD.73.100K	10	100 / 0.25	0.064	2.20
CD.73.120K	12	100 / 0.25	0.073	2.00
CD.73.150K	15	100 / 0.25	0.092	1.90
CD.73.180K	18	100 / 0.25	0.110	1.75
CD.73.220K	22	100 / 0.25	0.130	1.65
CD.73.270K	27	100 / 0.25	0.150	1.55
CD.73.330K	33	100 / 0.25	0.188	1.45
CD.73.390K	39	100 / 0.25	0.220	1.30
CD.73.470K	47	100 / 0.25	0.273	1.15
CD.73.560K	56	100 / 0.25	0.320	1.00
CD.73.680K	68	100 / 0.25	0.364	0.90
CD.73.820K	82	100 / 0.25	0.460	0.85
CD.73.101K	100	100 / 0.25	0.546	0.80
CD.73.121K	120	100 / 0.25	0.590	0.70
CD.73.151K	150	100 / 0.25	0.750	0.65
CD.73.181K	180	100 / 0.25	1.020	0.62
CD.73.221K	220	100 / 0.25	1.100	0.58

1. Tolerance: M:±20%, K:±10%
2. Rated Current: DC current when the inductance drops approximate 10% from its value without current.

SMT POWER INDUCTORS

CD Series

CD73 Series

Electrical Specifications@25℃

Part Number	Inductance (μH)	Test Frequency (kHz/V)	D.C.R. (Ω Max.)	Rated Current (A Max.)
CD.73.271K	270	100 / 0.25	1.310	0.52
CD.73.331K	330	100 / 0.25	1.560	0.48
CD.73.391K	390	100 / 0.25	1.850	0.45
CD.73.471K	470	100 / 0.25	2.200	0.38
CD.73.561K	560	100 / 0.25	2.800	0.32
CD.73.681K	680	100 / 0.25	3.700	0.30
CD.73.821K	820	100 / 0.25	4.800	0.28
CD.73.102K	1000	100 / 0.25	5.460	0.23
CD.73.222K	2200	100 / 0.25	12.48	0.15
CD.73.352K	3500	100 / 0.25	18.00	0.14

1. Tolerance: K:±10%
2. Rated Current: DC current when the inductance drops approximate 10% from its value without current.

SMT POWER INDUCTORS

CD Series

CD75 Series

Electrical Specifications@25℃

Part Number	Inductance (μH)	Test Frequency (kHz/V)	D.C.R. (Ω Max.)	Rated Current (A Max.)
CD.75.1R0N	1.0	100 / 0.25	0.013	6.20
CD.75.1R5M	1.5	100 / 0.25	0.014	5.50
CD.75.2R2M	2.2	100 / 0.25	0.015	5.00
CD.75.2R7M	2.7	100 / 0.25	0.017	4.60
CD.75.3R3M	3.3	100 / 0.25	0.020	4.30
CD.75.3R9M	3.9	100 / 0.25	0.023	4.20
CD.75.4R7M	4.7	100 / 0.25	0.026	4.00
CD.75.5R6M	5.6	100 / 0.25	0.027	3.30
CD.75.6R8M	6.8	100 / 0.25	0.033	3.00
CD.75.8R2M	8.2	100 / 0.25	0.039	2.90
CD.75.100K	10	100 / 0.25	0.042	2.80
CD.75.120K	12	100 / 0.25	0.049	2.50
CD.75.150K	15	100 / 0.25	0.067	2.30
CD.75.220K	22	100 / 0.25	0.091	1.90
CD.75.470K	47	100 / 0.25	0.176	1.30
CD.75.560K	56	100 / 0.25	0.208	1.25
CD.75.680K	68	100 / 0.25	0.238	1.05
CD.75.820K	82	100 / 0.25	0.299	0.95
CD.75.101K	100	100 / 0.25	0.370	0.80
CD.75.121K	120	100 / 0.25	0.442	0.75
CD.75.151K	150	100 / 0.25	0.520	0.72
CD.75.161K	160	100 / 0.25	0.580	0.70
CD.75.171K	170	100 / 0.25	0.585	0.68
CD.75.181K	180	100 / 0.25	0.598	0.65
CD.75.221K	220	100 / 0.25	0.793	0.60
CD.75.271K	270	100 / 0.25	0.988	0.55
CD.75.281K	280	100 / 0.25	1.02	0.50
CD.75.301K	300	100 / 0.25	1.10	0.48
CD.75.331K	330	100 / 0.25	1.13	0.45
CD.75.391K	390	100 / 0.25	1.30	0.42
CD.75.401K	400	100 / 0.25	1.43	0.40
CD.75.471K	470	100 / 0.25	1.68	0.39
CD.75.561K	560	100 / 0.25	1.90	0.37
CD.75.601K	600	100 / 0.25	2.18	0.35
CD.75.681K	680	100 / 0.25	2.47	0.34
CD.75.761K	760	100 / 0.25	2.60	0.33

1. Tolerance: N:±30%, M:±20%, K:±10%
2. Rated Current: DC current when the inductance drops approximate 10% from its value without current.

SMT POWER INDUCTORS

CD Series

CD75 Series

Electrical Specifications@25℃

Part Number	Inductance (μH)	Test Frequency (kHz/V)	D.C.R. (Ω Max.)	Rated Current (A Max.)
CD.75.801K	800	100 / 0.25	2.70	0.32
CD.75.821K	820	100 / 0.25	2.76	0.31
CD.75.102K	1000	100 / 0.25	3.60	0.30
CD.75.122K	1200	100 / 0.25	4.38	0.25
CD.75.152K	1500	100 / 0.25	5.52	0.23
CD.75.202K	2000	100 / 0.25	6.80	0.21
CD.75.222K	2200	100 / 0.25	7.50	0.19
CD.75.232K	2300	100 / 0.25	8.30	0.18
CD.75.302K	3000	100 / 0.25	9.60	0.17
CD.75.332K	3300	100 / 0.25	11.50	0.16
CD.75.402K	4000	100 / 0.25	13.50	0.15
CD.75.472K	4700	100 / 0.25	16.20	0.14
CD.75.502K	5000	100/ 0.25	18.00	0.12
CD.75.822K	8200	100/ 0.25	33.00	0.11
CD.75.103K	10000	100 / 0.25	39.00	0.09
CD.75.333K	33000	100 / 0.25	108.0	0.04

1. Tolerance: K:±10%
2. Rated Current: DC current when the inductance drops approximate 10% from its value without current.

SMT POWER INDUCTORS

CD Series

CD104 Series

Electrical Specifications@25℃

Part Number	Inductance (μH)	Test Frequency (kHz/V)	D.C.R. (Ω Max.)	Saturation Current (A Max.)
CD.104.1R0M	1.0	100 / 0.25	0.008	8.00
CD.104.1R2M	1.2	100 / 0.25	0.010	7.50
CD.104.1R5M	1.5	100 / 0.25	0.012	7.20
CD.104.2R2M	2.2	100 / 0.25	0.013	6.80
CD.104.3R3M	3.3	100 / 0.25	0.019	5.60
CD.104.3R9M	3.9	100 / 0.25	0.020	5.20
CD.104.4R7M	4.7	100 / 0.25	0.028	4.80
CD.104.5R6M	5.6	100 / 0.25	0.031	3.90
CD.104.6R8M	6.8	100 / 0.25	0.033	3.50
CD.104.8R2M	8.2	100 / 0.25	0.039	3.30
CD.104.100M	10	100 / 0.25	0.047	3.00
CD.104.150M	15	100 / 0.25	0.067	2.80
CD.104.180M	18	100 / 0.25	0.081	2.50
CD.104.220M	22	100 / 0.25	0.093	2.20
CD.104.330M	33	100 / 0.25	0.125	1.70
CD.104.390M	39	100 / 0.25	0.151	1.50
CD.104.470M	47	100 / 0.25	0.173	1.30
CD.104.560M	56	100 / 0.25	0.198	1.10
CD.104.680M	68	100 / 0.25	0.247	1.00
CD.104.820M	82	100 / 0.25	0.299	0.95
CD.104.101K	100	100 / 0.25	0.351	0.85
CD.104.121K	120	100 / 0.25	0.429	0.80
CD.104.151K	150	100 / 0.25	0.533	0.75
CD.104.181K	180	100 / 0.25	0.624	0.72
CD.104.221K	220	100 / 0.25	0.728	0.68
CD.104.271K	270	100 / 0.25	1.077	0.64
CD.104.331K	330	100 / 0.25	1.274	0.60
CD.104.391K	390	100 / 0.25	1.560	0.56
CD.104.471K	470	100 / 0.25	1.690	0.50
CD.104.561K	560	100 / 0.25	2.040	0.45
CD.104.681K	680	100 / 0.25	2.470	0.40
CD.104.821K	820	100 / 0.25	2.820	0.35
CD.104.352K	3500	100 / 0.25	13.40	0.13

1. Tolerance: M:±20%, K:±10%
2. Saturation Current: The rated DC current is that causes at 10% Max. inductance reduction from the initial value.

SMT POWER INDUCTORS

CD Series

CD105 Series

Electrical Specifications@25℃

Part Number	Inductance (μH)	Test Frequency (kHz/V)	D.C.R. (Ω Max.)	Rated Current (A Max.)
CD.105.1R0N	1.0	100 / 0.25	0.009	15.0
CD.105.1R4N	1.4	100 / 0.25	0.014	11.0
CD.105.1R5N	1.5	100 / 0.25	0.014	11.0
CD.105.1R8M	1.8	100 / 0.25	0.016	10.0
CD.105.2R2M	2.2	100 / 0.25	0.017	9.00
CD.105.2R7M	2.7	100 / 0.25	0.018	8.00
CD.105.3R3M	3.3	100 / 0.25	0.020	7.00
CD.105.4R7M	4.7	100 / 0.25	0.022	6.00
CD.105.5R6M	5.6	100 / 0.25	0.024	5.80
CD.105.6R8M	6.8	100 / 0.25	0.026	5.30
CD.105.8R2M	8.2	100 / 0.25	0.031	4.50
CD.105.100K	10	100 / 0.25	0.033	4.00
CD.105.120K	12	100 / 0.25	0.040	3.90
CD.105.150K	15	100 / 0.25	0.046	3.50
CD.105.180K	18	100 / 0.25	0.058	3.10
CD.105.220K	22	100 / 0.25	0.066	2.80
CD.105.470K	47	100 / 0.25	0.137	2.00
CD.105.2R2M	2.2	100 / 0.25	0.019	8.00
CD.105.4R7M	4.7	100 / 0.25	0.027	6.00
CD.105.6R8M	6.8	100 / 0.25	0.029	5.30
CD.105.8R2M	8.2	100 / 0.25	0.036	4.50
CD.105.100K	10	100 / 0.25	0.039	4.00
CD.105.180K	18	100 / 0.25	0.065	3.10
CD.105.220K	22	100 / 0.25	0.070	2.80
CD.105.270K	27	100 / 0.25	0.084	2.40
CD.105.330K	33	100 / 0.25	0.092	2.35
CD.105.390K	39	100 / 0.25	0.125	2.20
CD.105.470K	47	100 / 0.25	0.144	2.00
CD.105.560K	56	100 / 0.25	0.159	1.80
CD.105.680K	68	100 / 0.25	0.200	1.60
CD.105.750K	75	100 / 0.25	0.220	1.50
CD.105.820K	82	100 / 0.25	0.230	1.40
CD.105.101K	100	100 / 0.25	0.260	1.30
CD.105.121K	120	100 / 0.25	0.310	1.20

1. Tolerance: N:±30%, M:±20%, K:±10%
2. Rated Current: DC current when the inductance drops approximate 10% from its value without current.

SMT POWER INDUCTORS

CD Series

CD105 Series

Electrical Specifications@25℃

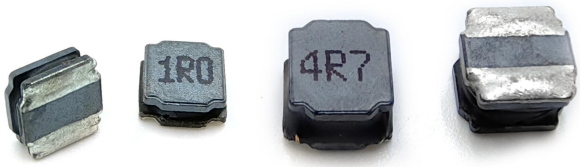
Part Number	Inductance (μH)	Test Frequency (kHz/V)	D.C.R. (Ω Max.)	Rated Current (A Max.)
CD.105.151K	150	100 / 0.25	0.400	1.05
CD.105.171K	170	100 / 0.25	0.450	0.98
CD.105.181K	180	100 / 0.25	0.490	0.95
CD.105.201K	200	100 / 0.25	0.545	0.92
CD.105.221K	220	100 / 0.25	0.575	0.90
CD.105.271K	270	100 / 0.25	0.695	0.85
CD.105.331K	330	100 / 0.25	0.845	0.75
CD.105.391K	390	100 / 0.25	1.04	0.68
CD.105.471K	470	100 / 0.25	1.18	0.60
CD.105.561K	560	100 / 0.25	1.42	0.56
CD.105.601K	600	100 / 0.25	1.55	0.54
CD.105.681K	680	100 / 0.25	1.68	0.52
CD.105.821K	820	100 / 0.25	1.95	0.46
CD.105.102K	1000	100 / 0.25	2.30	0.43
CD.105.122K	1200	100 / 0.25	3.10	0.40
CD.105.152K	1500	100 / 0.25	3.40	0.35
CD.105.222K	2200	100 / 0.25	5.40	0.30
CD.105.302K	3000	100 / 0.25	7.80	0.26
CD.105.332K	3300	100 / 0.25	9.10	0.22
CD.105.333K	33000	100 / 0.25	88.4	0.07

1. Tolerance: K:±10%
2. Rated Current: DC current when the inductance drops approximate 10% from its value without current.

SMT POWER INDUCTORS

NR Series

Features



- Low profile, low DCR, high current handling capacities
  低轮廓、低直流电阻、高电流承载能力
- Magnetic shielding construction for high-density installation/磁屏蔽结构以适应高密度安装配置
- Flat bottom surface to ensure reliable mounting installation/底部平整确保可靠性安装
- Applied to automatic plug-in machine and packed by reel tape/可用于自动插件机器，卷轴包装

Application

- Digital camera, notebook, PC, LCD TV set, DC to DC converters, DC to AC inverters, etc
  数码相机，笔记本电脑，台式电脑，液晶电视机，直流-直流整流器，直流-交流换流器等

Mechanical

Fig. 1

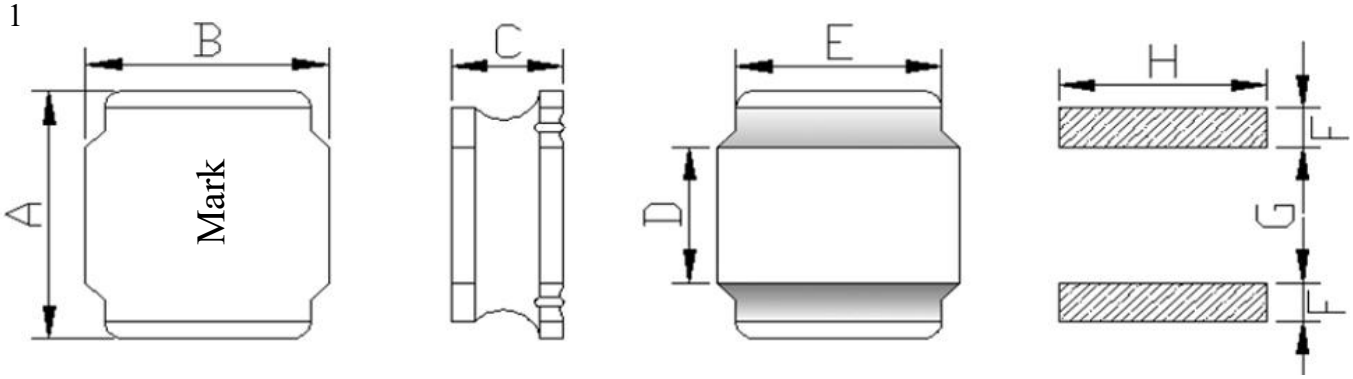


Fig. 2

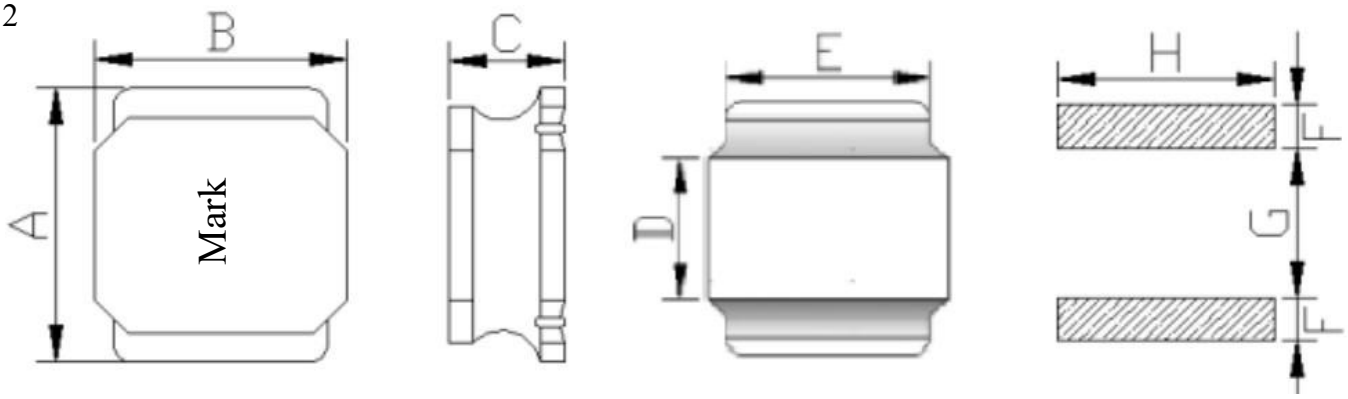
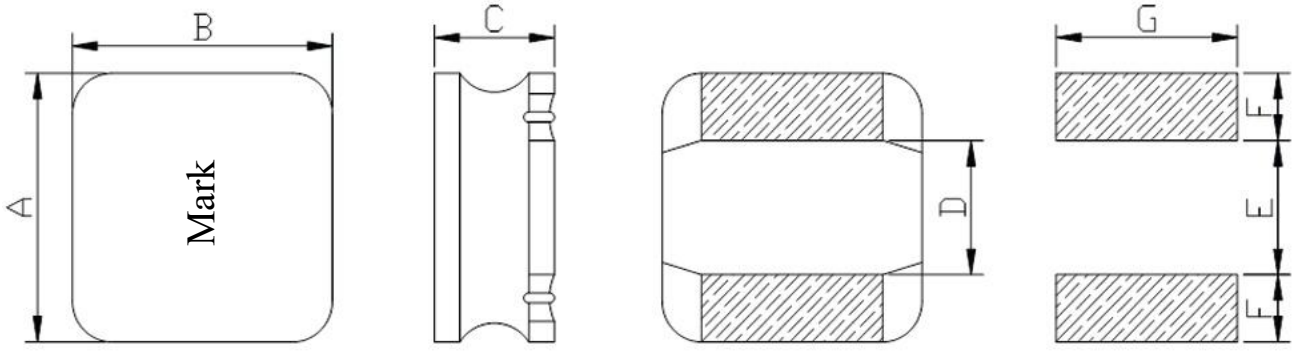


Fig.3



SMT POWER INDUCTORS

NR Series

Fig.4

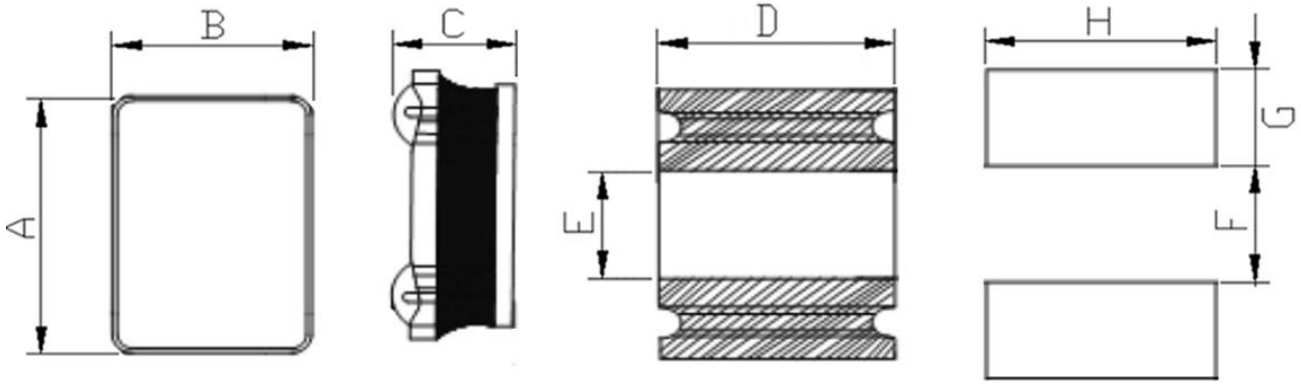
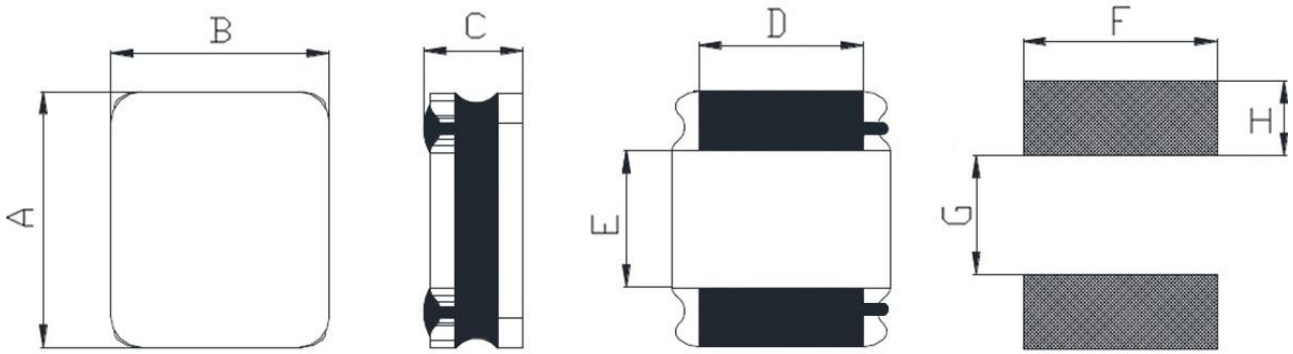


Fig.5



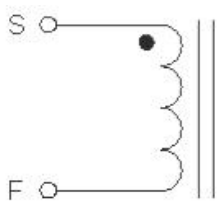
Dimensions (mm)

Type	Fig.	A	B	C Max.	D Ref.	E Ref.	F Ref.	G Ref.	H Ref.
NR201610	4	2.1±0.2	1.7±0.2	1.05	1.7	0.7	0.7	0.7	1.7
NR252010	4	2.5+0.3/-0.1	2.0+0.35/-0.05	1.05	2.2	1.0	0.9	0.9	2.2
NR252012	5	2.5±0.3	2.0±0.3	1.2	2.0	1.0	2.2	0.8	0.9
NR3010	2	3.0±0.3	3.0±0.3	1.0	1.5	2.5	0.8	1.5	2.5
NR3012	1	3.0±0.2	3.0±0.2	1.2	1.5	2.5	0.8	1.5	2.7
NR3015	1	3.0±0.2	3.0±0.2	1.5	1.2	2.5	1.0	1.2	3.0
NR4010	2	4.0±0.2	4.0±0.2	1.1	2.1	3.3	1.0	2.1	3.7
NR4012	2	4.0±0.2	4.0±0.2	1.2	1.8	3.3	1.3	1.8	3.7
NR4018	1	4.0±0.2	4.0±0.2	1.8	1.6	3.2	1.4	1.4	3.7
NR4020	1	4.0±0.2	4.0±0.2	2.0	1.7	3.2	1.3	1.6	3.7
NR4030	1	4.0±0.2	4.0±0.2	3.0	1.8	3.2	1.3	1.6	3.7
NR5012	2	5.0±0.3	5.0±0.3	1.2	2.0	4.0	1.8	2.0	4.7
NR5020	1	5.0±0.2	5.0±0.2	2.0	2.5	4.0	1.5	2.3	4.7
NR5030	1	5.0±0.2	5.0±0.2	3.0	2.5	4.0	1.5	2.3	4.7
NR5040	1	5.0±0.2	5.0±0.2	4.0	2.2	4.0	1.6	2.0	4.7
NR6020	1	6.0±0.3	6.0±0.3	2.0	2.7	4.9	2.0	2.4	5.7
NR6028	1	6.0±0.3	6.0±0.3	2.8	2.7	4.9	2.0	2.4	5.7
NR6045	1	6.0±0.3	6.0±0.3	4.5	2.9	4.9	1.7	2.8	5.7
NR8040	1	8.0±0.3	8.0±0.3	4.2	3.5	6.3	2.5	3.4	7.5
NR8060	1	8.0±0.3	8.0±0.3	6.0	3.6	6.3	2.5	3.4	7.5
NR8065	1	8.0±0.3	8.0±0.3	6.5	3.6	6.3	2.5	3.4	7.5
NR1050	3	10.0±0.3	10.0±0.3	5.0	6.0	5.5	2.0	7.5	-

SMT POWER INDUCTORS

NR Series

Schematic



NR201610 Series

Electrical Specifications@25℃

Part Number	Inductance (μH)	Test Frequency (mHz/V)	D.C.R. (mΩ Max.)	Saturation Current (A Max.)	Temperature Rise Current (A Max.)
NR.201610.R47N	0.47	1/0.1	53	2.70	2.16
NR.201610.R68N	0.68	1/0.1	82	2.00	1.60
NR.201610.1R0M	1.0	1/0.1	115	2.00	1.60
NR.201610.1R5M	1.5	1/0.1	156	1.70	1.36
NR.201610.2R2M	2.2	1/0.1	174	1.26	1.01
NR.201610.3R3M	3.3	1/0.1	294	1.05	0.84
NR.201610.4R7M	4.7	1/0.1	432	0.85	0.68
NR.201610.6R8M	6.8	1/0.1	620	0.72	0.58
NR.201610.100M	10	1/0.1	864	0.65	0.50
NR.201610.150M	15	1/0.1	1680	0.55	0.39
NR.201610.180M	18	1/0.1	1700	0.40	0.32
NR.201610.220M	22	1/0.1	2000	0.38	0.30

1. Tolerance：N:±30%，M:±20%
2. Saturation Current: DC current when the inductance drops 30% from its value without current
3. Temperature Rise Current: DC current that causes the coil temperature to rise (△T≤40℃) at 25℃ ambient

SMT POWER INDUCTORS

NR Series

NR252010 Series

Electrical Specifications@25℃

Part Number	Inductance (μH)	Test Frequency (mHz/V)	D.C.R. (mΩ Max.)	Saturation Current (A Max.)	Temperature Rise Current (A Max.)
NR.252010.R24N	0.24	1/0.1	34	3.50	2.65
NR.252010.R33N	0.33	1/0.1	38	3.50	2.60
NR.252010.R47N	0.47	1/0.1	42	2.80	2.57
NR.252010.R68N	0.68	1/0.1	49	2.30	2.30
NR.252010.1R0M	1.0	1/0.1	66	2.05	2.05
NR.252010.1R5M	1.5	1/0.1	108	1.70	1.55
NR.252010.2R2M	2.2	1/0.1	145	1.55	1.50
NR.252010.3R3M	3.3	1/0.1	204	1.10	1.10
NR.252010.4R7M	4.7	1/0.1	300	0.95	0.95
NR.252010.6R8M	6.8	1/0.1	444	0.90	0.80
NR.252010.100M	10	1/0.1	564	0.65	0.60
NR.252010.150M	15	1/0.1	960	0.55	0.45
NR.252010.220M	22	1/0.1	1344	0.40	0.40

1. Tolerance：N:±30%，M:±20%
2. Saturation Current: DC current when the inductance drops 30% from its value without current
3. Temperature Rise Current: DC current that causes the coil temperature to rise (△T≤40℃) at 25℃ ambient

NR252012 Series

Electrical Specifications@25℃

Part Number	Inductance (μH)	Test Frequency (kHz/V)	D.C.R. (mΩ Max.)	Saturation Current (A Max.)	Temperature Rise Current (A Max.)
NR.252012.R47N	0.47	100/1	61	3.82	2.15
NR.252012.R68N	0.68	100/1	74	3.28	1.95
NR.252012.1R0N	1.0	100/1	90	2.59	1.93
NR.252012.1R2N	1.2	100/1	129	2.38	1.46
NR.252012.1R5M	1.5	100/1	147	2.24	1.40
NR.252012.2R2M	2.2	100/1	216	1.85	1.15
NR.252012.2R7M	2.7	100/1	239	1.72	1.09
NR.252012.3R3M	3.3	100/1	264	1.61	1.04
NR.252012.4R7M	4.7	100/1	377	1.12	0.84
NR.252012.5R6M	5.6	100/1	538	1.11	0.73
NR.252012.6R8M	6.8	100/1	581	0.98	0.69
NR.252012.8R2M	8.2	100/1	658	0.98	0.65
NR.252012.100M	10	100/1	690	0.79	0.62
NR.252012.150M	15	100/1	1591	0.68	0.42
NR.252012.220M	22	100/1	1976	0.53	0.38

1. Tolerance: N:±30%，M:±20%
2. Saturation Current: DC current when the inductance drops 30% from its value without current
3. Temperature Rise Current: DC current that causes the coil temperature to rise (△T≤40℃) at 25℃ ambient

SMT POWER INDUCTORS

NR Series

NR3010 Series

Electrical Specifications@25℃

Part Number	Inductance (μH)	Test Frequency (mHz/V)	D.C.R. (Ω Max.)	Rated Current (A Max.)
NR.3010.R68N	0.68	1/1	0.065	3.00
NR.3010.1R0N	1.0	1/1	0.091	2.30
NR.3010.1R5N	1.5	1/1	0.111	2.10
NR.3010.2R2M	2.2	1/1	0.156	1.60
NR.3010.2R7M	2.7	1/1	0.195	1.50
NR.3010.3R3M	3.3	1/1	0.208	1.40
NR.3010.4R7M	4.7	1/1	0.312	1.15
NR.3010.6R2M	6.2	1/1	0.429	1.00
NR.3010.6R8M	6.8	1/1	0.429	1.00
NR.3010.100M	10	1/1	0.559	0.70
NR.3010.120M	12	1/1	0.78	0.65
NR.3010.150M	15	1/1	0.949	0.60
NR.3010.220M	22	1/1	1.196	0.55
NR.3010.270M	27	1/1	1.56	0.47
NR.3010.330M	33	1/1	1.82	0.43
NR.3010.390M	39	1/1	2.08	0.40
NR.3010.430M	43	1/1	2.47	0.39
NR.3010.470M	47	1/1	2.535	0.38
NR.3010.221M	220	1/1	13.897	0.16

1. Tolerance: N:±30%, M:±20%
2. Rated Current: DC current when the inductance drops approximate 30% from its value without current.

SMT POWER INDUCTORS

NR Series

NR3012 Series

Electrical Specifications@25℃

Part Number	Inductance (μH)	Test Frequency (mHz/V)	D.C.R. (Ω Max.)	Rated Current (A Max.)
NR.3012.R47N	0.47	1/1	0.035	2.20
NR.3012.R82N	0.82	1/1	0.039	2.05
NR.3012.1R0N	1.0	1/1	0.052	1.90
NR.3012.1R5N	1.5	1/1	0.059	1.65
NR.3012.2R2M	2.2	1/1	0.098	1.20
NR.3012.2R4M	2.4	1/1	0.098	1.20
NR.3012.2R7M	2.7	1/1	0.107	1.15
NR.3012.3R3M	3.3	1/1	0.130	1.05
NR.3012.3R9M	3.9	1/1	0.146	1.00
NR.3012.4R7M	4.7	1/1	0.156	0.90
NR.3012.6R8M	6.8	1/1	0.247	0.75
NR.3012.100M	10	1/1	0.345	0.60
NR.3012.120M	12	1/1	0.449	0.48
NR.3012.150M	15	1/1	0.468	0.45
NR.3012.220M	22	1/1	0.839	0.42
NR.3012.330M	33	1/1	1.138	0.36
NR.3012.470M	47	1/1	1.885	0.27
NR.3012.680M	68	1/1	2.171	0.24
NR.3012.820M	82	1/1	3.276	0.20
NR.3012.101M	100	1/1	3.640	0.19

1. Tolerance: N:±30%, M:±20%
2. Rated Current: DC current when the inductance drops approximate 30% from its value without current.

SMT POWER INDUCTORS

NR Series

NR3015 Series

Electrical Specifications@25℃

Part Number	Inductance (μH)	Test Frequency (mHz/V)	D.C.R. (Ω Max.)	Rated Current (A Max.)
NR.3015.R22N	0.22	1/1	0.023	4.00
NR.3015.R24N	0.24	1/1	0.023	4.00
NR.3015.R33N	0.33	1/1	0.023	4.00
NR.3015.R47N	0.47	1/1	0.027	2.50
NR.3015.R56N	0.56	1/1	0.035	2.40
NR.3015.R68N	0.68	1/1	0.035	2.40
NR.3015.R82N	0.82	1/1	0.039	2.32
NR.3015.1R0N	1.0	1/1	0.039	2.32
NR.3015.1R5N	1.5	1/1	0.065	2.00
NR.3015.1R8N	1.8	1/1	0.065	1.75
NR.3015.2R2N	2.2	1/1	0.078	1.60
NR.3015.2R7M	2.7	1/1	0.098	1.45
NR.3015.3R3M	3.3	1/1	0.104	1.32
NR.3015.3R6M	3.6	1/1	0.137	1.28
NR.3015.3R9M	3.9	1/1	0.137	1.20
NR.3015.4R3M	4.3	1/1	0.163	1.10
NR.3015.4R7M	4.7	1/1	0.163	1.10
NR.3015.5R6M	5.6	1/1	0.182	1.00
NR.3015.6R8M	6.8	1/1	0.260	0.85
NR.3015.8R2M	8.2	1/1	0.296	0.80
NR.3015.100M	10	1/1	0.325	0.72
NR.3015.120M	12	1/1	0.377	0.70
NR.3015.150M	15	1/1	0.455	0.66
NR.3015.180M	18	1/1	0.559	0.56
NR.3015.220M	22	1/1	0.598	0.52
NR.3015.270M	27	1/1	0.832	0.48
NR.3015.330M	33	1/1	1.066	0.40
NR.3015.390M	39	1/1	1.157	0.35
NR.3015.470M	47	1/1	1.625	0.30
NR.3015.680M	68	1/1	1.885	0.28
NR.3015.820M	82	1/1	2.535	0.24
NR.3015.101M	100	1/1	2.990	0.23
NR.3015.121M	120	1/1	3.250	0.21
NR.3015.151M	150	1/1	4.550	0.18
NR.3015.221M	220	1/1	5.850	0.15
NR.3015.122M	1200	1/1	44.980	0.07

1. Tolerance: N:±30%, M:±20%
2. Rated Current: DC current when the inductance drops approximate 30% from its value without current.

SMT POWER INDUCTORS

NR Series

NR4010 Series — Electrical Specifications@25℃

Part Number	Inductance (μH)	Test Frequency (kHz/V)	D.C.R. (Ω Max.)	Rated Current (A Max.)
NR.4010.1R0N	1.0	100/1	0.078	2.50
NR.4010.2R2M	2.2	100/1	0.143	1.20
NR.4010.3R3M	3.3	100/1	0.169	1.10
NR.4010.4R7M	4.7	100/1	0.230	0.95
NR.4010.6R8M	6.8	100/1	0.338	0.80
NR.4010.100M	10	100/1	0.529	0.62
NR.4010.150M	15	100/1	0.884	0.54
NR.4010.220M	22	100/1	1.040	0.45
NR.4010.330M	33	100/1	1.380	0.43
NR.4010.470M	47	100/1	1.950	0.40

1. Tolerance: N:±30%, M:±20%
2. Rated Current: DC current when the inductance drops approximate 30% from its value without current.

NR4012 Series — Electrical Specifications@25℃

Part Number	Inductance (μH)	Test Frequency (mHz/V)	D.C.R. (Ω Max.)	Rated Current (A Max.)
NR.4012.R47N	0.47	1/1	0.046	3.40
NR.4012.R68N	0.68	1/1	0.058	3.20
NR.4012.1R0N	1.0	1/1	0.065	2.61
NR.4012.1R5N	1.5	1/1	0.094	2.50
NR.4012.2R2M	2.2	1/1	0.105	2.10
NR.4012.3R3M	3.3	1/1	0.149	1.70
NR.4012.4R7M	4.7	1/1	0.163	1.15
NR.4012.6R8M	6.8	1/1	0.286	1.18
NR.4012.100M	10	1/1	0.442	0.95
NR.4012.120M	12	1/1	0.494	0.85
NR.4012.150M	15	1/1	0.651	0.80
NR.4012.180M	18	1/1	0.741	0.70
NR.4012.220M	22	1/1	1.01	0.65
NR.4012.330M	33	1/1	1.28	0.55
NR.4012.470M	47	1/1	2.21	0.45
NR.4012.680M	68	1/1	2.50	0.38
NR.4012.101M	100	1/1	4.13	0.32

1. Tolerance: N:±30%, M:±20%
2. Rated Current: DC current when the inductance drops approximate 30% from its value without current.

SMT POWER INDUCTORS

NR Series

NR4018 Series

Electrical Specifications@25℃

Part Number	Inductance (μH)	Test Frequency (kHz/V)	D.C.R. (Ω Max.)	Rated Current (A Max.)
NR.4018.R22N	0.22	100/1	0.017	6.00
NR.4018.R24N	0.24	100/1	0.017	6.00
NR.4018.R33N	0.33	100/1	0.017	6.00
NR.4018.R47N	0.47	100/1	0.018	5.00
NR.4018.R56N	0.56	100/1	0.018	5.00
NR.4018.R68N	0.68	100/1	0.026	4.90
NR.4018.1R0N	1.0	100/1	0.033	4.80
NR.4018.1R5N	1.5	100/1	0.039	3.35
NR.4018.1R8N	1.8	100/1	0.044	3.00
NR.4018.2R0N	2.0	100/1	0.059	2.70
NR.4018.2R2M	2.2	100/1	0.059	2.70
NR.4018.2R7M	2.7	100/1	0.081	2.60
NR.4018.3R3M	3.3	100/1	0.091	2.45
NR.4018.4R7M	4.7	100/1	0.117	1.70
NR.4018.5R6M	5.6	100/1	0.130	1.60
NR.4018.6R8M	6.8	100/1	0.143	1.45
NR.4018.8R2M	8.2	100/1	0.208	1.38
NR.4018.100M	10	100/1	0.234	1.30
NR.4018.150M	15	100/1	0.325	0.94
NR.4018.220M	22	100/1	0.468	0.80
NR.4018.270M	27	100/1	0.611	0.70
NR.4018.330M	33	100/1	0.689	0.65
NR.4018.390M	39	100/1	0.793	0.60
NR.4018.470M	47	100/1	0.845	0.57
NR.4018.121M	120	100/1	2.860	0.34
NR.4018.221M	220	100/1	5.200	0.30

1. Tolerance: N:±30%, M:±20%
2. Rated Current: DC current when the inductance drops approximate 30% from its value without current.

SMT POWER INDUCTORS

NR Series

NR4020 Series

Electrical Specifications@25℃

Part Number	Inductance (μH)	Test Frequency (kHz/V)	D.C.R. (Ω Max.)	Rated Current (A Max.)
NR.4020.R20N	0.20	100/1	0.018	10.5
NR.4020.R22N	0.22	100/1	0.018	10.5
NR.4020.R24N	0.24	100/1	0.018	10.5
NR.4020.R33N	0.33	100/1	0.018	7.50
NR.4020.R47N	0.47	100/1	0.029	7.00
NR.4020.R56N	0.56	100/1	0.029	6.80
NR.4020.R68N	0.68	100/1	0.033	6.40
NR.4020.1R0N	1.0	100/1	0.036	5.10
NR.4020.1R2N	1.2	100/1	0.038	4.70
NR.4020.1R5N	1.5	100/1	0.046	4.45
NR.4020.1R8N	1.8	100/1	0.051	4.30
NR.4020.2R2N	2.2	100/1	0.052	3.40
NR.4020.2R7M	2.7	100/1	0.070	3.30
NR.4020.3R3M	3.3	100/1	0.091	3.20
NR.4020.4R7M	4.7	100/1	0.098	2.35
NR.4020.5R6M	5.6	100/1	0.117	2.20
NR.4020.6R2M	6.2	100/1	0.163	2.20
NR.4020.6R8M	6.8	100/1	0.163	2.20
NR.4020.8R2M	8.2	100/1	0.195	1.75
NR.4020.100M	10	100/1	0.215	1.60
NR.4020.120M	12	100/1	0.228	1.50
NR.4020.150M	15	100/1	0.299	1.35
NR.4020.220M	22	100/1	0.455	1.05
NR.4020.270M	27	100/1	0.611	1.02
NR.4020.330M	33	100/1	0.715	0.85
NR.4020.470M	47	100/1	0.923	0.74
NR.4020.510M	51	100/1	1.118	0.70
NR.4020.560M	56	100/1	1.248	0.65
NR.4020.680M	68	100/1	1.378	0.61
NR.4020.820M	82	100/1	1.521	0.50
NR.4020.101M	100	100/1	2.015	0.48
NR.4020.151M	150	100/1	3.250	0.40
NR.4020.221M	220	100/1	5.330	0.30
NR.4020.331M	330	100/1	7.800	0.28
NR.4020.391M	390	100/1	9.945	0.26
NR.4020.471M	470	100/1	11.050	0.24

1. Tolerance: N:±30%, M:±20%
2. Rated Current: DC current when the inductance drops approximate 30% from its value without current.

SMT POWER INDUCTORS

NR Series

NR4030 Series

Electrical Specifications@25℃

Part Number	Inductance (μH)	Test Frequency (kHz/V)	D.C.R. (Ω Max.)	Rated Current (A Max.)
NR.4030.R24N	0.24	100/1	0.013	8.00
NR.4030.R47N	0.47	100/1	0.014	7.50
NR.4030.R68N	0.68	100/1	0.018	7.00
NR.4030.R82N	0.82	100/1	0.018	6.50
NR.4030.R91N	0.91	100/1	0.018	5.90
NR.4030.1R0N	1.0	100/1	0.018	5.90
NR.4030.1R2N	1.2	100/1	0.027	5.80
NR.4030.1R5N	1.5	100/1	0.030	4.85
NR.4030.1R8N	1.8	100/1	0.033	4.40
NR.4030.2R2M	2.2	100/1	0.039	4.10
NR.4030.3R3M	3.3	100/1	0.052	3.30
NR.4030.3R6M	3.6	100/1	0.052	3.20
NR.4030.3R9M	3.9	100/1	0.074	3.00
NR.4030.4R7M	4.7	100/1	0.078	2.90
NR.4030.5R6M	5.6	100/1	0.085	2.75
NR.4030.6R8M	6.8	100/1	0.117	2.60
NR.4030.8R2M	8.2	100/1	0.124	2.10
NR.4030.100M	10	100/1	0.130	1.95
NR.4030.120M	12	100/1	0.176	1.70
NR.4030.150M	15	100/1	0.247	1.65
NR.4030.180M	18	100/1	0.260	1.40
NR.4030.220M	22	100/1	0.293	1.30
NR.4030.270M	27	100/1	0.338	1.15
NR.4030.330M	33	100/1	0.429	1.10
NR.4030.470M	47	100/1	0.579	0.95
NR.4030.510M	51	100/1	0.611	0.90
NR.4030.560M	56	100/1	0.722	0.85
NR.4030.680M	68	100/1	1.128	0.75
NR.4030.820M	82	100/1	1.378	0.68
NR.4030.101M	100	100/1	1.495	0.60
NR.4030.121M	120	100/1	1.755	0.55
NR.4030.151M	150	100/1	2.340	0.50
NR.4030.181M	180	100/1	3.055	0.45
NR.4030.221M	220	100/1	3.250	0.40

1. Tolerance: N:±30%, M:±20%
2. Rated Current: DC current when the inductance drops approximate 30% from its value without current.

SMT POWER INDUCTORS

NR Series

NR4030 Series — Electrical Specifications@25℃

Part Number	Inductance (μH)	Test Frequency (kHz/V)	D.C.R. (Ω Max.)	Rated Current (A Max.)
NR.4030.271M	270	100/1	4.095	0.37
NR.4030.301M	300	100/1	5.135	0.35
NR.4030.331M	330	100/1	5.200	0.30
NR.4030.391M	390	100/1	6.500	0.29
NR.4030.471M	470	100/1	6.890	0.28
NR.4030.501M	500	100/1	7.280	0.26
NR.4030.561M	560	100/1	8.060	0.25
NR.4030.681M	680	100/1	9.854	0.23
NR.4030.821M	820	100/1	12.220	0.19
NR.4030.102M	1000	100/1	14.950	0.18
NR.4030.122M	1200	100/1	20.800	0.17
NR.4030.152M	1500	100/1	23.400	0.16
NR.4030.202M	2000	100/1	29.900	0.14
NR.4030.222M	2200	100/1	31.200	0.13
NR.4030.332M	3300	100/1	54.600	0.10

1. Tolerance: M:±20%
2. Rated Current: DC current when the inductance drops approximate 30% from its value without current.

NR5012 Series — Electrical Specifications@25℃

Part Number	Inductance (μH)	Test Frequency (kHz/V)	D.C.R. (Ω Max.)	Saturation Current (A Max.)
NR.5012.R47N	0.47	100/1	0.060	5.30
NR.5012.1R0N	1.0	100/1	0.085	4.00
NR.5012.1R5N	1.5	100/1	0.104	3.20
NR.5012.2R2M	2.2	100/1	0.140	2.80
NR.5012.3R3M	3.3	100/1	0.165	2.10
NR.5012.4R7M	4.7	100/1	0.240	1.90
NR.5012.6R8M	6.8	100/1	0.364	1.60
NR.5012.100M	10	100/1	0.480	1.20
NR.5012.150M	15	100/1	0.650	1.00
NR.5012.220M	22	100/1	1.027	0.95
NR.5012.330M	33	100/1	1.560	0.85

1. Tolerance: N:±30%, M:±20%
2. Saturation Current： DC current when the inductance drops approximate 30% from its value without current

SMT POWER INDUCTORS

NR Series

NR5020 Series

Electrical Specifications@25℃

Part Number	Inductance (μH)	Test Frequency (kHz/V)	D.C.R. (Ω Max.)	Rated Current (A Max.)
NR.5020.R22N	0.22	100/1	0.017	9.00
NR.5020.R24N	0.24	100/1	0.017	8.00
NR.5020.R47N	0.47	100/1	0.017	6.50
NR.5020.R56N	0.56	100/1	0.022	6.50
NR.5020.R68N	0.68	100/1	0.022	5.10
NR.5020.1R0N	1.0	100/1	0.029	4.25
NR.5020.1R2N	1.2	100/1	0.029	4.25
NR.5020.1R5N	1.5	100/1	0.034	4.10
NR.5020.2R2N	2.2	100/1	0.042	3.85
NR.5020.2R7N	2.7	100/1	0.056	3.50
NR.5020.3R0N	3.0	100/1	0.056	3.25
NR.5020.3R3M	3.3	100/1	0.056	3.25
NR.5020.3R6M	3.6	100/1	0.065	2.80
NR.5020.3R9M	3.9	100/1	0.065	2.70
NR.5020.4R7M	4.7	100/1	0.074	2.50
NR.5020.5R6M	5.6	100/1	0.083	2.30
NR.5020.6R8M	6.8	100/1	0.120	2.10
NR.5020.8R2M	8.2	100/1	0.127	1.90
NR.5020.100M	10	100/1	0.163	1.80
NR.5020.120M	12	100/1	0.195	1.60
NR.5020.150M	15	100/1	0.215	1.44
NR.5020.220M	22	100/1	0.294	1.18
NR.5020.270M	27	100/1	0.351	1.00
NR.5020.330M	33	100/1	0.481	0.92
NR.5020.470M	47	100/1	0.680	0.77
NR.5020.560M	56	100/1	0.819	0.77
NR.5020.680M	68	100/1	0.962	0.65
NR.5020.820M	82	100/1	1.157	0.54
NR.5020.101M	100	100/1	1.430	0.53
NR.5020.121M	120	100/1	1.495	0.42
NR.5020.151M	150	100/1	1.950	0.40
NR.5020.181M	180	100/1	2.340	0.37
NR.5020.201M	200	100/1	2.600	0.35
NR.5020.221M	220	100/1	2.990	0.33

1. Tolerance: N:±30%, M:±20%
2. Rated Current: DC current when the inductance drops approximate 30% from its value without current.

SMT POWER INDUCTORS

NR Series

NR5020 Series

Electrical Specifications@25℃

Part Number	Inductance (μH)	Test Frequency (kHz/V)	D.C.R. (Ω Max.)	Rated Current (A Max.)
NR.5020.271M	270	100/1	3.380	0.30
NR.5020.331M	330	100/1	3.900	0.25
NR.5020.471M	470	100/1	6.630	0.20
NR.5020.561M	560	100/1	7.150	0.18
NR.5020.681M	680	100/1	7.410	0.17
NR.5020.821M	820	100/1	10.140	0.15
NR.5020.102M	1000	100/1	11.830	0.14
NR.5020.122M	1200	100/1	14.690	0.10
NR.5020.152M	1500	100/1	20.150	0.09
NR.5020.222M	2200	100/1	37.700	0.08

1. Tolerance: M:±20%
2. Rated Current: DC current when the inductance drops approximate 30% from its value without current.

SMT POWER INDUCTORS

NR Series

NR5030 Series

Electrical Specifications@25℃

Part Number	Inductance (μH)	Test Frequency (kHz/V)	D.C.R. (Ω Max.)	Rated Current (A Max.)
NR.5030.R47N	0.47	100/1	0.013	8.00
NR.5030.R56N	0.56	100/1	0.013	7.50
NR.5030.1R0N	1.0	100/1	0.020	7.00
NR.5030.1R5N	1.5	100/1	0.024	5.50
NR.5030.2R2N	2.2	100/1	0.031	4.50
NR.5030.3R3M	3.3	100/1	0.039	4.00
NR.5030.4R7M	4.7	100/1	0.065	3.00
NR.5030.5R6M	5.6	100/1	0.070	3.00
NR.5030.6R8M	6.8	100/1	0.075	2.80
NR.5030.100M	10	100/1	0.100	2.20
NR.5030.120M	12	100/1	0.122	2.10
NR.5030.150M	15	100/1	0.156	1.70
NR.5030.220M	22	100/1	0.260	1.40
NR.5030.330M	33	100/1	0.351	1.20
NR.5030.470M	47	100/1	0.468	0.90
NR.5030.560M	56	100/1	0.526	0.85
NR.5030.680M	68	100/1	0.611	0.77
NR.5030.101M	100	100/1	0.988	0.75
NR.5030.151M	150	100/1	1.470	0.55
NR.5030.181M	180	100/1	1.820	0.48
NR.5030.221M	220	100/1	2.080	0.45
NR.5030.331M	330	100/1	3.500	0.35
NR.5030.391M	390	100/1	3.770	0.33
NR.5030.471M	470	100/1	4.700	0.30
NR.5030.681M	680	100/1	6.500	0.24
NR.5030.102M	1000	100/1	10.80	0.20
NR.5030.152M	1500	100/1	16.90	0.17
NR.5030.472M	4700	100/1	48.00	0.10

1. Tolerance: N:±30%, M:±20%
2. Rated Current: DC current when the inductance drops approximate 30% from its value without current.

SMT POWER INDUCTORS

NR Series

NR5040 Series

Electrical Specifications@25℃

Part Number	Inductance (μH)	Test Frequency (kHz/V)	D.C.R. (Ω Max.)	Rated Current (A Max.)
NR.5040.R22N	0.22	100/1	0.008	10.0
NR.5040.R30N	0.30	100/1	0.013	10.0
NR.5040.R47N	0.47	100/1	0.013	10.0
NR.5040.R68N	0.68	100/1	0.014	8.50
NR.5040.1R0N	1.0	100/1	0.017	7.35
NR.5040.1R2N	1.2	100/1	0.021	7.35
NR.5040.1R5N	1.5	100/1	0.021	6.30
NR.5040.1R8N	1.8	100/1	0.022	5.50
NR.5040.2R2N	2.2	100/1	0.025	4.90
NR.5040.2R7N	2.7	100/1	0.029	4.30
NR.5040.3R0N	3.0	100/1	0.029	4.30
NR.5040.3R3M	3.3	100/1	0.031	3.95
NR.5040.3R6M	3.6	100/1	0.035	3.80
NR.5040.3R9M	3.9	100/1	0.035	3.55
NR.5040.4R7M	4.7	100/1	0.039	3.50
NR.5040.5R6M	5.6	100/1	0.046	3.00
NR.5040.6R8M	6.8	100/1	0.056	2.90
NR.5040.8R2M	8.2	100/1	0.062	2.70
NR.5040.100M	10	100/1	0.083	2.35
NR.5040.120M	12	100/1	0.100	2.20
NR.5040.150M	15	100/1	0.112	2.00
NR.5040.180M	18	100/1	0.155	1.70
NR.5040.220M	22	100/1	0.168	1.60
NR.5040.270M	27	100/1	0.208	1.52
NR.5040.330M	33	100/1	0.244	1.30
NR.5040.390M	39	100/1	0.312	.1.20
NR.5040.470M	47	100/1	0.354	1.10
NR.5040.560M	56	100/1	0.494	1.00
NR.5040.680M	68	100/1	0.520	0.90
NR.5040.820M	82	100/1	0.663	0.80
NR.5040.880M	88	100/1	0.670	0.77
NR.5040.101M	100	100/1	0.728	0.75
NR.5040.151M	150	100/1	0.975	0.65
NR.5040.181M	180	100/1	1.690	0.60

1. Tolerance: N:±30%, M:±20%
2. Rated Current: DC current when the inductance drops approximate 30% from its value without current.

SMT POWER INDUCTORS

NR Series

NR5040 Series

Electrical Specifications@25℃

Part Number	Inductance (μH)	Test Frequency (kHz/V)	D.C.R. (Ω Max.)	Rated Current (A Max.)
NR.5040.201M	200	100/1	1.755	0.55
NR.5040.221M	220	100/1	1.820	0.50
NR.5040.301M	300	100/1	2.535	0.42
NR.5040.331M	330	100/1	2.730	0.42
NR.5040.391M	390	100/1	3.250	0.39
NR.5040.471M	470	100/1	3.900	0.37
NR.5040.561M	560	100/1	4.914	0.33
NR.5040.681M	680	100/1	5.070	0.30
NR.5040.821M	820	100/1	6.500	0.27
NR.5040.102M	1000	100/1	7.800	0.25
NR.5040.122M	1200	100/1	9.620	0.23
NR.5040.152M	1500	100/1	13.000	0.20
NR.5040.182M	1800	100/1	15.288	0.19
NR.5040.202M	2000	100/1	15.600	0.18
NR.5040.222M	2200	100/1	24.050	0.16
NR.5040.302M	3000	100/1	25.090	0.15
NR.5040.332M	3300	100/1	25.740	0.14
NR.5040.362M	3600	100/1	28.600	0.13
NR.5040.392M	3900	100/1	29.380	0.12
NR.5040.472M	4700	100/1	32.500	0.11
NR.5040.502M	5000	100/1	35.100	0.10
NR.5040.562M	5600	100/1	36.400	0.09
NR.5040.103M	10000	100/1	71.500	0.08

1. Tolerance: M:±20%
2. Rated Current: DC current when the inductance drops approximate 30% from its value without current.

SMT POWER INDUCTORS

NR Series

NR6020 Series

Electrical Specifications@25℃

Part Number	Inductance (μH)	Test Frequency (kHz/V)	D.C.R. (Ω Max.)	Rated Current (A Max.)
NR.6020.R24N	0.24	100/1	0.017	6.50
NR.6020.R68N	0.68	100/1	0.023	4.40
NR.6020.1R0N	1.0	100/1	0.026	4.30
NR.6020.1R5N	1.5	100/1	0.032	4.25
NR.6020.2R0N	2.0	100/1	0.045	3.75
NR.6020.2R2N	2.2	100/1	0.045	3.75
NR.6020.3R3N	3.3	100/1	0.058	3.15
NR.6020.4R7N	4.7	100/1	0.075	3.00
NR.6020.5R6N	5.6	100/1	0.091	2.40
NR.6020.6R8N	6.8	100/1	0.110	2.20
NR.6020.8R2N	8.2	100/1	0.122	1.90
NR.6020.100M	10	100/1	0.156	1.75
NR.6020.120M	12	100/1	0.182	1.70
NR.6020.150M	15	100/1	0.208	1.50
NR.6020.180M	18	100/1	0.260	1.40
NR.6020.220M	22	100/1	0.312	1.25
NR.6020.330M	33	100/1	0.44	0.90
NR.6020.470M	47	100/1	0.65	0.75
NR.6020.680M	68	100/1	0.96	0.68
NR.6020.101M	100	100/1	1.45	0.50
NR.6020.221M	220	100/1	3.12	0.35
NR.6020.331M	330	100/1	4.65	0.28
NR.6020.471M	470	100/1	5.72	0.25
NR.6020.561M	560	100/1	6.37	0.23
NR.6020.681M	680	100/1	8.71	0.20
NR.6020.102M	1000	100/1	14.35	0.18
NR.6020.182M	1800	100/1	22.50	0.11

1. Tolerance: N:±30%, M:±20%
2. Rated Current: DC current when the inductance drops approximate 30% from its value without current.

SMT POWER INDUCTORS

NR Series

NR6028 Series

Electrical Specifications@25℃

Part Number	Inductance (μH)	Test Frequency (kHz/V)	D.C.R. (Ω Max.)	Rated Current (A Max.)
NR.6028.R68N	0.68	100/1.0	0.013	6.90
NR.6028.1R0N	1.0	100/1.0	0.016	6.70
NR.6028.1R5N	1.5	100/1.0	0.020	6.00
NR.6028.1R6N	1.6	100/1.0	0.020	6.00
NR.6028.2R2N	2.2	100/1.0	0.026	5.10
NR.6028.3R3M	3.3	100/1.0	0.033	3.63
NR.6028.3R6M	3.6	100/1.0	0.033	3.63
NR.6028.4R7M	4.7	100/1.0	0.039	3.20
NR.6028.5R6M	5.6	100/1.0	0.056	3.00
NR.6028.6R0M	6.0	100/1.0	0.056	3.00
NR.6028.6R2M	6.2	100/1.0	0.061	2.80
NR.6028.6R8M	6.8	100/1.0	0.061	2.60
NR.6028.8R2M	8.2	100/1.0	0.072	2.40
NR.6028.100M	10	100/1.0	0.094	2.20
NR.6028.120M	12	100/1.0	0.104	1.95
NR.6028.150M	15	100/1.0	0.143	1.85
NR.6028.180M	18	100/1.0	0.156	1.70
NR.6028.220M	22	100/1.0	0.182	1.55
NR.6028.270M	27	100/1.0	0.202	1.50
NR.6028.330M	33	100/1.0	0.241	1.35
NR.6028.360M	36	100/1.0	0.286	1.30
NR.6028.390M	39	100/1.0	0.293	1.25
NR.6028.470M	47	100/1.0	0.364	1.15
NR.6028.560M	56	100/1.0	0.442	1.05
NR.6028.680M	68	100/1.0	0.468	0.95
NR.6028.750M	75	100/1.0	0.533	0.90
NR.6028.820M	82	100/1.0	0.650	0.85
NR.6028.101M	100	100/1.0	0.715	0.75
NR.6028.121M	120	100/1.0	0.884	0.65
NR.6028.151M	150	100/1.0	1.092	0.55
NR.6028.181M	180	100/1.0	1.495	0.52
NR.6028.201M	200	100/1.0	1.560	0.50
NR.6028.221M	220	100/1.0	1.625	0.47
NR.6028.331M	330	100/1.0	2.470	0.42

1. Tolerance: N:±30%, M:±20%
2. Rated Current: DC current when the inductance drops approximate 30% from its value without current.

SMT POWER INDUCTORS

NR Series

NR6028 Series

Electrical Specifications@25℃

Part Number	Inductance (μH)	Test Frequency (kHz/V)	D.C.R. (Ω Max.)	Rated Current (A Max.)
NR.6028.391M	390	100/1.0	2.535	0.39
NR.6028.401M	400	100/1.0	2.925	0.38
NR.6028.471M	470	100/1.0	2.990	0.36
NR.6028.561M	560	100/1.0	4.420	0.32
NR.6028.681M	680	100/1.0	5.070	0.28
NR.6028.821M	820	100/1.0	6.760	0.28
NR.6028.102M	1000	100/1.0	7.410	0.25
NR.6028.152M	1500	100/1.0	14.391	0.23
NR.6028.222M	2200	100/1.0	19.500	0.18

1. Tolerance: M:±20%
2. Rated Current: DC current when the inductance drops approximate 30% from its value without current.

SMT POWER INDUCTORS

NR Series

NR6045 Series

Electrical Specifications@25℃

Part Number	Inductance (μH)	Test Frequency (kHz/V)	D.C.R. (Ω Max.)	Rated Current (A Max.)
NR.6045.R47N	0.47	100/1	0.010	10.0
NR.6045.R56N	0.56	100/1	0.010	10.0
NR.6045.R68N	0.68	100/1	0.012	9.50
NR.6045.R82N	0.82	100/1	0.012	9.00
NR.6045.1R0N	1.0	100/1	0.014	9.00
NR.6045.1R2N	1.2	100/1	0.014	8.35
NR.6045.1R5N	1.5	100/1	0.016	7.50
NR.6045.1R8N	1.8	100/1	0.022	6.50
NR.6045.2R0N	2.0	100/1	0.022	6.50
NR.6045.2R2N	2.2	100/1	0.022	6.50
NR.6045.2R3N	2.3	100/1	0.022	6.50
NR.6045.2R7N	2.7	100/1	0.025	5.60
NR.6045.3R0N	3.0	100/1	0.025	5.60
NR.6045.3R3M	3.3	100/1	0.026	5.30
NR.6045.3R6M	3.6	100/1	0.027	5.00
NR.6045.4R2M	4.2	100/1	0.028	4.90
NR.6045.4R5M	4.5	100/1	0.034	4.50
NR.6045.4R7M	4.7	100/1	0.034	4.50
NR.6045.5R6M	5.6	100/1	0.040	3.70
NR.6045.6R0M	6.0	100/1	0.042	3.50
NR.6045.6R3M	6.3	100/1	0.043	3.30
NR.6045.6R8M	6.8	100/1	0.043	3.30
NR.6045.7R5M	7.5	100/1	0.048	3.50
NR.6045.8R2M	8.2	100/1	0.055	3.10
NR.6045.100M	10	100/1	0.067	3.00
NR.6045.120M	12	100/1	0.075	2.80
NR.6045.150M	15	100/1	0.100	2.50
NR.6045.180M	18	100/1	0.105	2.20
NR.6045.220M	22	100/1	0.116	2.05
NR.6045.270M	27	100/1	0.165	1.90
NR.6045.300M	30	100/1	0.195	1.65
NR.6045.330M	33	100/1	0.195	1.65
NR.6045.360M	36	100/1	0.225	1.62
NR.6045.390M	39	100/1	0.234	1.58

1. Tolerance: N:±30%, M:±20%
2. Rated Current: DC current when the inductance drops approximate 30% from its value without current.

SMT POWER INDUCTORS

NR Series

NR6045 Series

Electrical Specifications@25℃

Part Number	Inductance (μH)	Test Frequency (kHz/V)	D.C.R. (Ω Max.)	Rated Current (A Max.)
NR.6045.470M	47	100/1	0.286	1.40
NR.6045.560M	56	100/1	0.290	1.30
NR.6045.680M	68	100/1	0.377	1.20
NR.6045.750M	75	100/1	0.448	1.15
NR.6045.820M	82	100/1	0.495	1.05
NR.6045.101M	100	100/1	0.559	1.00
NR.6045.121M	120	100/1	0.629	0.85
NR.6045.151M	150	100/1	0.884	0.80
NR.6045.181M	180	100/1	1.15	0.75
NR.6045.201M	200	100/1	1.17	0.72
NR.6045.221M	220	100/1	1.29	0.70
NR.6045.271M	270	100/1	1.37	0.65
NR.6045.301M	300	100/1	1.76	0.60
NR.6045.331M	330	100/1	1.85	0.57
NR.6045.371M	370	100/1	2.34	0.51
NR.6045.391M	390	100/1	2.34	0.51
NR.6045.471M	470	100/1	2.57	0.50
NR.6045.561M	560	100/1	3.25	0.44
NR.6045.601M	600	100/1	3.30	0.43
NR.6045.681M	680	100/1	4.07	0.42
NR.6045.801M	800	100/1	4.81	0.35
NR.6045.821M	820	100/1	4.90	0.34
NR.6045.102M	1000	100/1	5.90	0.32
NR.6045.122M	1200	100/1	6.63	0.30
NR.6045.132M	1300	100/1	7.02	0.27
NR.6045.152M	1500	100/1	8.45	0.24
NR.6045.202M	2000	100/1	12.35	0.22
NR.6045.222K	2200	100/1	12.48	0.20
NR.6045.252K	2500	100/1	15.47	0.19
NR.6045.302M	3000	100/1	19.50	0.18
NR.6045.332M	3300	100/1	21.50	0.17
NR.6045.472M	4700	100/1	27.30	0.15
NR.6045.562M	5600	100/1	35.75	0.14
NR.6045.103M	10000	100/1	53.70	0.10
NR.6045.153M	15000	100/1	90.00	0.06

1. Tolerance: M:±20%, K:±10%
2. Rated Current: DC current when the inductance drops approximate 30% from its value without current.

SMT POWER INDUCTORS

NR Series

NR8040 Series

Electrical Specifications@25℃

Part Number	Inductance (μH)	Test Frequency (kHz/V)	D.C.R. (Ω Max.)	Rated Current (A Max.)
NR.8040.R47N	0.47	100/1	0.007	12.0
NR.8040.R68N	0.68	100/1	0.011	10.0
NR.8040.R82N	0.82	100/1	0.011	9.80
NR.8040.1R0N	1.0	100/1	0.011	9.80
NR.8040.1R5N	1.5	100/1	0.014	7.70
NR.8040.2R0N	2.0	100/1	0.016	7.10
NR.8040.2R2N	2.2	100/1	0.016	7.10
NR.8040.2R6N	2.6	100/1	0.017	7.10
NR.8040.3R0N	3.0	100/1	0.022	6.50
NR.8040.3R3M	3.3	100/1	0.022	6.50
NR.8040.3R6M	3.6	100/1	0.024	6.30
NR.8040.3R9M	3.9	100/1	0.024	6.30
NR.8040.4R7M	4.7	100/1	0.026	5.90
NR.8040.5R1M	5.1	100/1	0.031	5.50
NR.8040.5R6M	5.6	100/1	0.031	5.50
NR.8040.6R2M	6.2	100/1	0.036	4.50
NR.8040.6R8M	6.8	100/1	0.036	4.50
NR.8040.8R2M	8.2	100/1	0.046	4.20
NR.8040.100M	10	100/1	0.048	3.60
NR.8040.120M	12	100/1	0.065	3.40
NR.8040.150M	15	100/1	0.073	2.90
NR.8040.180M	18	100/1	0.092	2.70
NR.8040.220M	22	100/1	0.096	2.40
NR.8040.270M	27	100/1	0.101	2.15
NR.8040.330M	33	100/1	0.130	2.00
NR.8040.390M	39	100/1	0.163	1.95
NR.8040.430M	43	100/1	0.147	1.90
NR.8040.470M	47	100/1	0.177	1.70
NR.8040.510M	51	100/1	0.230	1.60
NR.8040.560M	56	100/1	0.230	1.60
NR.8040.620M	62	100/1	0.250	1.50
NR.8040.680M	68	100/1	0.255	1.45
NR.8040.720M	72	100/1	0.338	1.40
NR.8040.750M	75	100/1	0.338	1.40

1. Tolerance: N:±30%, M:±20%
2. Rated Current: DC current when the inductance drops approximate 30% from its value without current.

SMT POWER INDUCTORS

NR Series

NR8040 Series

Electrical Specifications@25℃

Part Number	Inductance (μH)	Test Frequency (kHz/V)	D.C.R. (Ω Max.)	Rated Current (A Max.)
NR.8040.800M	80	100/1	0.345	1.30
NR.8040.820M	82	100/1	0.345	1.30
NR.8040.910M	91	100/1	0.354	1.20
NR.8040.101M	100	100/1	0.377	1.15
NR.8040.121M	120	100/1	0.421	1.12
NR.8040.151M	150	100/1	0.533	1.10
NR.8040.181M	180	100/1	0.676	0.95
NR.8040.201M	200	100/1	0.760	0.92
NR.8040.221M	220	100/1	0.779	0.85
NR.8040.271M	270	100/1	1.027	0.74
NR.8040.331M	330	100/1	1.261	0.68
NR.8040.391M	390	100/1	1.560	0.65
NR.8040.471M	470	100/1	1.625	0.60
NR.8040.561M	560	100/1	2.21	0.55
NR.8040.681M	680	100/1	2.67	0.52
NR.8040.751M	750	100/1	3.25	0.50
NR.8040.821M	820	100/1	3.64	0.45
NR.8040.102M	1000	100/1	3.80	0.40
NR.8040.122M	1200	100/1	4.68	0.37
NR.8040.132M	1300	100/1	5.33	0.36
NR.8040.152M	1500	100/1	6.54	0.35
NR.8040.202M	2000	100/1	8.71	0.30
NR.8040.222M	2200	100/1	9.96	0.27
NR.8040.272M	2700	100/1	11.96	0.25
NR.8040.402M	4000	100/1	19.20	0.22
NR.8040.472M	4700	100/1	20.80	0.21
NR.8040.502K	5000	100/1	22.40	0.15
NR.8040.103M	10000	100/1	54.60	0.12
NR.8040.453M	45000	50/1	245.7	0.05

1. Tolerance: M:±20%, K:±10%
2. Rated Current: DC current when the inductance drops approximate 30% from its value without current.

SMT POWER INDUCTORS

NR Series

NR8060 Series

Electrical Specifications@25℃

Part Number	Inductance (μH)	Test Frequency (kHz/V)	D.C.R. (Ω Max.)	Rated Current (A Max.)
NR.8060.1R0N	1.0	100/1	0.016	17.0
NR.8060.1R5N	1.5	100/1	0.017	14.0
NR.8060.2R2N	2.2	100/1	0.022	8.0
NR.8060.3R3M	3.3	100/1	0.025	7.5
NR.8060.4R7M	4.7	100/1	0.032	7.0
NR.8060.6R0M	6.0	100/1	0.034	6.0
NR.8060.6R8M	6.8	100/1	0.037	5.9
NR.8060.100M	10	100/1	0.042	5.8
NR.8060.150M	15	100/1	0.071	4.5
NR.8060.220M	22	100/1	0.100	4.0
NR.8060.330M	33	100/1	0.162	3.0
NR.8060.470M	47	100/1	0.188	2.8
NR.8060.680M	68	100/1	0.248	2.5
NR.8060.101M	100	100/1	0.380	2.0
NR.8060.151M	150	100/1	0.546	1.5
NR.8060.221M	220	100/1	0.884	1.20
NR.8060.331M	330	100/1	1.26	1.05
NR.8060.471M	470	100/1	1.76	0.90
NR.8060.561M	560	100/1	2.08	0.85
NR.8060.681M	680	100/1	2.80	0.80
NR.8060.801M	800	100/1	2.86	0.70
NR.8060.821M	820	100/1	3.40	0.68
NR.8060.102M	1000	100/1	3.87	0.60
NR.8060.122M	1200	100/1	4.29	0.54
NR.8060.182M	1800	100/1	6.37	0.43
NR.8060.202M	2000	100/1	7.15	0.40
NR.8060.222M	2200	100/1	7.60	0.38

1. Tolerance: N:±30%, M:±20%
2. Rated Current: DC current when the inductance drops approximate 30% from its value without current.

SMT POWER INDUCTORS

NR Series

NR8065 Series

Electrical Specifications@25℃

Part Number	Inductance (μH)	Test Frequency (kHz/V)	D.C.R. (Ω Max.)	Rated Current (A Max.)
NR.8065.R68N	0.68	100/1	0.012	20.0
NR.8065.1R0N	1.0	100/1	0.014	15.0
NR.8065.2R2N	2.2	100/1	0.018	12.0
NR.8065.3R3M	3.3	100/1	0.022	10.0
NR.8065.4R7M	4.7	100/1	0.025	9.00
NR.8065.5R6M	5.6	100/1	0.027	8.30
NR.8065.6R8M	6.8	100/1	0.029	7.50
NR.8065.7R8M	7.8	100/1	0.033	7.00
NR.8065.8R2M	8.2	100/1	0.039	6.50
NR.8065.100M	10	100/1	0.047	6.00
NR.8065.150M	15	100/1	0.064	5.00
NR.8065.220M	22	100/1	0.082	4.00
NR.8065.330M	33	100/1	0.111	3.40
NR.8065.470M	47	100/1	0.163	2.80
NR.8065.560M	56	100/1	0.195	2.60
NR.8065.680M	68	100/1	0.234	2.25
NR.8065.820M	82	100/1	0.251	2.20
NR.8065.101M	100	100/1	0.338	1.90
NR.8065.151M	150	100/1	0.533	1.50
NR.8065.221M	220	100/1	0.715	1.25
NR.8065.241M	240	100/1	0.741	1.20
NR.8065.251M	250	100/1	0.793	1.17
NR.8065.331M	330	100/1	1.079	1.10
NR.8065.371M	370	100/1	1.118	1.00
NR.8065.391M	390	100/1	1.170	0.95
NR.8065.471M	470	100/1	1.560	0.87
NR.8065.561M	560	100/1	1.885	0.82
NR.8065.681M	680	100/1	2.210	0.75
NR.8065.821M	820	100/1	2.600	0.65
NR.8065.102M	1000	100/1	3.250	0.62
NR.8065.122M	1200	100/1	4.030	0.54
NR.8065.152M	1500	100/1	4.680	0.50
NR.8065.202M	2000	100/1	6.370	0.40
NR.8065.222M	2200	100/1	6.630	0.38

1. Tolerance: N:±30%, M:±20%
2. Rated Current: DC current when the inductance drops approximate 30% from its value without current.

SMT POWER INDUCTORS

NR Series

NR8065 Series

Electrical Specifications@25℃

Part Number	Inductance (μH)	Test Frequency (kHz/V)	D.C.R. (Ω Max.)	Rated Current (A Max.)
NR.8065.252M	2500	100/1	8.190	0.35
NR.8065.302M	3000	100/1	10.530	0.34
NR.8065.332M	3300	100/1	10.790	0.30
NR.8065.392M	3900	100/1	12.350	0.29
NR.8065.472M	4700	100/1	15.340	0.27
NR.8065.602M	6000	100/1	17.810	0.25
NR.8065.682M	6800	100/1	23.400	0.21
NR.8065.103M	10000	100/1	36.400	0.17
NR.8065.363M	36000	100/1	113.100	0.11

1. Tolerance: M:±20%
2. Rated Current: DC current when the inductance drops approximate 30% from its value without current.

SMT POWER INDUCTORS

NR Series

NR1050 Series

Electrical Specifications@25℃

Part Number	Inductance (μH)	Test Frequency (kHz/V)	D.C.R. (Ω Max.)	Rated Current (A Max.)
NR.1050.1R0N	1.0	100/1	0.018	10.0
NR.1050.1R5N	1.5	100/1	0.020	10.0
NR.1050.2R2N	2.2	100/1	0.025	10.0
NR.1050.3R3M	3.3	100/1	0.027	10.0
NR.1050.4R7M	4.7	100/1	0.030	10.0
NR.1050.6R8M	6.8	100/1	0.037	9.00
NR.1050.8R2M	8.2	100/1	0.040	8.50
NR.1050.100M	10	100/1	0.048	7.20
NR.1050.150M	15	100/1	0.059	6.00
NR.1050.220M	22	100/1	0.085	4.30
NR.1050.330M	33	100/1	0.104	4.00
NR.1050.470M	47	100/1	0.163	3.30
NR.1050.560M	56	100/1	0.201	3.10
NR.1050.680M	68	100/1	0.235	3.00
NR.1050.101M	100	100/1	0.338	2.50
NR.1050.151M	150	100/1	0.438	2.00
NR.1050.181M	180	100/1	0.607	1.90
NR.1050.221M	220	100/1	0.675	1.80
NR.1050.271M	270	100/1	0.858	1.50
NR.1050.301M	300	100/1	0.975	1.45
NR.1050.331M	330	100/1	1.10	1.40
NR.1050.391M	390	100/1	1.30	1.25
NR.1050.471M	470	100/1	1.43	1.20
NR.1050.561M	560	100/1	1.75	1.10
NR.1050.681M	680	100/1	1.98	1.00
NR.1050.821M	820	100/1	2.73	0.90
NR.1050.102M	1000	100/1	3.42	0.80
NR.1050.122M	1200	100/1	3.77	0.75
NR.1050.152M	1500	100/1	4.95	0.65
NR.1050.202M	2000	100/1	6.50	0.55
NR.1050.302M	3000	100/1	9.10	0.50
NR.1050.402M	4000	100/1	12.35	0.40
NR.1050.472M	4700	100/1	16.25	0.36
NR.1050.153M	15000	100/1	48.10	0.23

1. Tolerance: N:±30%, M:±20%
2. Rated Current: DC current when the inductance drops approximate 30% from its value without current.