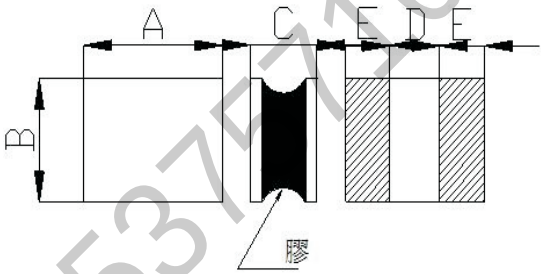
Shielded Power Inductors NR Series

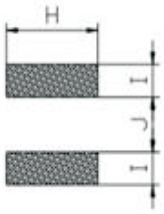

Product Identification:

NR - 3010 - 1R0 M
(1) (2) (3) (4)

(1) Type
(2) Dimensions(L*H)
(3) Inductance (1R0=1.0uH，100=10uH，101=100uH)
(4) Tolerance(K(±10%), L(±15%)，M(±20%),N(±30%))

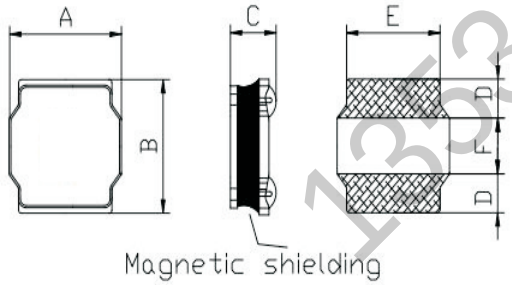
DIMENSIONS DRAWING:

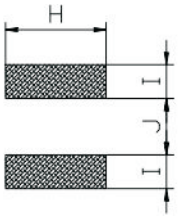




Shape and Dimensions							Recommended Pattern		
TYPE	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	-	H(mm)	I(mm)	J(mm)
NR-201610	2.0±0.25	1.6±0.25	1.02Max	0.6±0.2	0.77±0.2	-	1.8Typ	0.8Typ	0.6Typ
NR-252010	2.5±0.25	2.0±0.25	1.02Max	0.8±0.3	0.9±0.3	-	2.0Typ	1.1Typ	0.6Typ
NR-252012	2.5±0.25	2.0±0.25	1.25Max	0.8±0.3	0.9±0.3		2.0Typ	1.1Typ	0.6Typ

SMD Power Inductors NR Series





Shape and Dimensions							Recommended Pattern		
TYPE	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	H(mm)	I(mm)	J(mm)
NR-3010	3.0±0.2	3.0±0.2	1.0±0.1	0.9Typ	2.6Typ	1.2Typ	2.9Typ	1.3Typ	0.9Typ
NR-3012	3.0±0.2	3.0±0.2	1.2Max	0.9Typ	2.6Typ	1.2Typ	2.9Typ	1.3Typ	0.9Typ
NR-3015	3.0±0.2	3.0±0.2	1.5Max	0.9Typ	2.6Typ	1.2Typ	2.9Typ	1.3Typ	0.9Typ
NR-4012	4.0±0.2	4.0±0.2	1.2Max	1.2Typ	3.5Typ	1.6Typ	3.8Typ	1.6Typ	1.3Typ
NR-4018	4.0±0.2	4.0±0.2	1.8Max	1.2Typ	3.5Typ	1.6Typ	3.8Typ	1.6Typ	1.3Typ
NR-4020	4.0±0.2	4.0±0.2	2.0Max	1.2Typ	3.5Typ	1.6Typ	3.8Typ	1.6Typ	1.3Typ
NR-4030	4.0±0.2	4.0±0.2	3.0Max	1.2Typ	3.5Typ	1.6Typ	3.8Typ	1.6Typ	1.3Typ
NR-5020	5.0±0.2	5.0±0.2	2.0Max	1.5Typ	-	2.0Typ	5.2Typ	1.7Typ	1.8Typ
NR-5040	5.0±0.2	5.0±0.2	4.0±0.2	1.5Typ	-	2.0Typ	5.2Typ	1.7Typ	1.8Typ
NR-6020	6.0±0.2	6.0±0.2	2.1Max	1.65yp	-	2.7Typ	5.3Typ	2.1Typ	2.4Typ
NR-6028	6.0±0.2	6.0±0.2	3.0Max	1.65yp	-	2.7Typ	5.3Typ	2.1Typ	2.4Typ
NR-6045	6.0±0.2	6.0±0.2	4.5Max	1.65yp	-	2.7Typ	5.3Typ	2.1Typ	2.4Typ
NR-8040	8.0±0.3	8.0±0.3	4.2Max	2.45yp	-	3.1Typ	8.5Typ	2.85Typ	2.8Typ

SMD Power Inductors NR-201610 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	TEST FREQ.(Hz)	DCR(Ω) Max	IDC1 (A) Max.	IDC2 (A) Max.	MARK
NR-201610-R47□	0.47	N	1M/0.25V	0.059	2.30	2.35	/
NR-201610-R68□	0.68	N	1M/0.25V	0.076	1.95	2.05	/
NR-201610-1R0□	1.0	N	1M/0.25V	0.114	1.65	1.45	/
NR-201610-1R5□	1.5	N	1M/0.25V	0.174	1.35	1.25	/
NR-201610-2R2□	2.2	M N	1M/0.25V	0.264	1.20	1.10	/
NR-201610-3R3□	3.3	M N	1M/0.25V	0.335	0.90	0.88	/
NR-201610-4R7□	4.7	M N	1M/0.25V	0.479	0.70	0.74	/
NR-201610-6R8□	6.8	M N	1M/0.25V	0.816	0.60	0.52	/
NR-201610-100□	10	M N	1M/0.25V	1.020	0.50	0.45	/

SMD Power Inductors NR-252010 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	TEST FREQ.(Hz)	DCR(Ω) Max	IDC1 (A) Max.	IDC2 (A) Max.	MARK
NR-252010-1R0□	1.0	N	1M/0.25V	0.108	1.85	1.65	A
NR-252010-1R5□	1.5	N	1M/0.25V	0.182	1.80	1.30	B
NR-252010-2R2□	2.2	N	1M/0.25V	0.209	1.20	1.20	C
NR-252010-3R3□	3.3	M N	1M/0.25V	0.328	1.05	0.90	D
NR-252010-4R7□	4.7	N	1M/0.25V	0.563	0.95	0.70	E
NR-252010-5R6□	5.6	M N	1M/0.25V	0.563	0.80	0.73	F
NR-252010-6R8□	6.8	M N	1M/0.25V	0.896	0.78	0.59	G
NR-252010-100□	10	M N	1M/0.25V	1.092	0.65	0.50	H
NR-252010-150□	15	M N	1M/0.25V	1.885	0.46	0.36	I
NR-252010-220□	22	M N	1M/0.25V	2.40	0.45	0.30	J

SMD Power Inductors NR-252012 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	TEST FREQ.(Hz)	DCR(Ω) Max	IDC1 (A) Max.	IDC2 (A) Max.	MARK
NR-252012-R47□	0.47	N	1M/0.25V	0.061	3.82	2.15	A
NR-252012-R68□	0.68	N	1M/0.25V	0.074	3.28	1.95	B
NR-252012-1R0□	1.0	N	1M/0.25V	0.09	2.59	1.93	C
NR-252012-1R2□	1.2	N	1M/0.25V	0.129	2.38	1.46	D
NR-252012-1R5□	1.5	N	1M/0.25V	0.147	2.24	1.4	E
NR-252012-2R2□	2.2	N	1M/0.25V	0.216	1.85	1.15	F

(1).Specify the inductance tolerance, K(±10%), L(±15%), M(±20%),N(±30%)

(2).IDC1:Base on temp.rise & ΔL/L0A30% typ

(3).IDC2:Temp.rise 40℃Typ

(4).Operating temp.:-40℃ to +125℃

※:Rated DC Current： The less value which is IDC1 or IDC2

SMD Power Inductors NR-252012 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	TEST FREQ.(Hz)	DCR(Ω) Max	IDC1 (A) Max.	IDC2 (A) Max.	MARK
NR-252012-3R3□	3.3	M N	1M/0.25V	0.264	1.61	1.04	G
NR-252012-4R7□	4.7	M N	1M/0.25V	0.377	1.12	0.84	H
NR-252012-5R6□	5.6	M N	1M/0.25V	0.538	1.11	0.73	I
NR-252012-6R8□	6.8	M N	1M/0.25V	0.581	0.98	0.69	J
NR-252012-8R2□	8.2	M N	1M/0.25V	0.658	0.98	0.65	N
NR-252012-100□	10	M N	1M/0.25V	0.69	0.79	0.62	K
NR-252012-120□	12	M N	1M/0.25V	1.075	0.78	0.51	O
NR-252012-150□	15	M N	1M/0.25V	1.591	0.68	0.42	L
NR-252012-220□	22	M N	1M/0.25V	1.976	0.53	0.38	M

SMD Power Inductors NR-3010 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	TEST FREQ.(Hz)	DCR(Ω) ±30%	IDC1 (A) Max.	IDC2 (A) Max.	S.R.F(Min) (MHz)
NR-3010-1R0□	1.0	N	100K/1V	0.065	1.4	1.45	180
NR-3010-1R5□	1.5	N	100K/1V	0.08	1.27	1.3	120
NR-3010-2R2□	2.2	N	100K/1V	0.11	1.15	1.09	100
NR-3010-3R3□	3.3	M N	100K/1V	0.145	0.97	0.96	74
NR-3010-4R7□	4.7	M N	100K/1V	0.225	0.75	0.77	59
NR-3010-6R8□	6.8	M N	100K/1V	0.305	0.55	0.66	42
NR-3010-100□	10	M N	100K/1V	0.4	0.55	0.58	39
NR-3010-150□	15	M N	100K/1V	0.61	0.42	0.47	30
NR-3010-220□	22	M N	100K/1V	0.93	0.35	0.38	28
NR-3010-330□	33	M N	100K/1V	1.55	0.29	0.3	18
NR-3010-470□	47	M N	100K/1V	1.95	0.22	0.26	18

SMD Power Inductors NR-3012 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	TEST FREQ.(Hz)	DCR(Ω) ±30%	IDC1 (A) Max.	IDC2 (A) Max.	S.R.F(Min) (MHz)
NR-3012-1R0□	1.0	N	100K/1V	0.04	1.87	2.2	120
NR-3012-1R5□	1.5	N	100K/1V	0.045	1.62	2.01	110
NR-3012-2R2□	2.2	N	100K/1V	0.075	1.2	1.55	84
NR-3012-3R3□	3.3	M N	100K/1V	0.1	1.05	1.36	64

(1).Specify the inductance tolerance, K(±10%), L(±15%), M(±20%),N(±30%)

(2).IDC1:Base on temp.rise & ΔL/L0A30% typ

(3).IDC2:Temp.rise 40℃Typ

(4).Operating temp.:-40℃ to +125℃

※:Rated DC Current： The less value which is IDC1 or IDC2

SMD Power Inductors NR-3012 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	TEST FREQ.(Hz)	DCR(Ω) ±30%	IDC1 (A) Max.	IDC2 (A) Max.	S.R.F(Min) (MHz)
NR-3012-4R7□	4.7	M N	100K/1V	0.12	0.9	1.24	61
NR-3012-6R8□	6.8	M N	100K/1V	0.19	0.75	0.98	61
NR-3012-100□	10	M N	100K/1V	0.265	0.6	0.83	42
NR-3012-150□	15	M N	100K/1V	0.36	0.45	0.71	27
NR-3012-220□	22	M N	100K/1V	0.645	0.42	0.53	23
NR-3012-330□	33	M N	100K/1V	0.875	0.36	0.46	18
NR-3012-470□	47	M N	100K/1V	1.45	0.27	0.35	14
NR-3012-680□	68	M N	100K/1V	1.67	0.24	0.33	12

SMD Power Inductors NR-3015 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	TEST FREQ.(Hz)	DCR(mΩ) Max.	IDC1 (A) Max.	IDC2 (A) Max.	MARK
NR-3015-R50□	0.5	N	100K/1V	39	3.9	2.60	-----
NR-3015-1R5□	1.5	N	100K/1V	65	2.3	1.70	-----
NR-3015-2R2□	2.2	M N	100K/1V	78	1.6	1.60	-----
NR-3015-2R7□	2.7	M N	100K/1V	98	1.52	1.43	-----
NR-3015-3R3□	3.3	M N	100K/1V	104	1.32	1.36	-----
NR-3015-4R7□	4.7	M N	100K/1V	163	1.1	1.09	-----
NR-3015-5R6□	5.6	M N	100K/1V	173	1	1.05	-----
NR-3015-6R8□	6.8	M N	100K/1V	260	0.85	0.85	-----
NR-3015-100□	10	M N	100K/1V	325	0.72	0.77	-----
NR-3015-120□	12	M N	100K/1V	416	0.7	0.68	-----
NR-3015-150□	15	M N	100K/1V	455	0.66	0.65	-----
NR-3015-180□	18	M N	100K/1V	559	0.56	0.59	-----
NR-3015-220□	22	M N	100K/1V	598	0.52	0.57	-----
NR-3015-270□	27	M N	100K/1V	949	0.48	0.45	-----
NR-3015-330□	33	M N	100K/1V	1066	0.44	0.43	-----
NR-3015-390□	39	M N	100K/1V	1294	0.41	0.39	-----
NR-3015-470□	47	M N	100K/1V	1625	0.35	0.35	-----
NR-3015-560□	56	M N	100K/1V	1664	0.33	0.34	-----
NR-3015-680□	68	M N	100K/1V	3510	0.28	0.23	-----
NR-3015-101□	100	M N	100K/1V	4043	0.23	0.21	-----
NR-3015-151□	150	M N	100K/1V	4940	0.18	0.19	-----

(1).Specify the inductance tolerance, K(±10%), L(±15%), M(±20%),N(±30%)

(2).IDC1:Base on temp.rise & ΔL/L0A30% typ

(3).IDC2:Temp.rise 40℃Typ

(4).Operating temp.:-40℃ to +125℃

※:Rated DC Current： The less value which is IDC1 or IDC2

SMD Power Inductors NR-4012 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	TEST FREQ.(Hz)	DCR(Ω) ±30%	IDC1 (A) Max.	IDC2 (A) Max.	MARK
NR-4012-R82□	0.82	N	100KHZ/1V	0.05	3.02	1.65	R82
NR-4012-1R0□	1.0	N	100KHZ/1V	0.05	2.61	1.65	1R0
NR-4012-1R5□	1.5	N	100KHZ/1V	0.07	2.10	1.46	1R5
NR-4012-1R8□	1.8	N	100KHZ/1V	0.08	2.12	1.32	1R8
NR-4012-2R2□	2.2	M N	100KHZ/1V	0.08	1.76	1.32	2R2
NR-4012-3R3□	3.3	M N	100KHZ/1V	0.11	1.72	1.12	3R3
NR-4012-4R7□	4.7	M N	100KHZ/1V	0.125	1.15	1.05	4R7
NR-4012-6R8□	6.8	M N	100KHZ/1V	0.198	0.85	0.84	6R8
NR-4012-100□	10	M N	100KHZ/1V	0.265	0.80	0.77	100
NR-4012-120□	12	M N	100KHZ/1V	0.290	0.66	0.70	120
NR-4012-150□	15	M N	100KHZ/1V	0.340	0.56	0.64	150
NR-4012-220□	22	M N	100KHZ/1V	0.587	0.46	0.49	220
NR-4012-330□	33	M N	100KHZ/1V	0.81	0.42	0.42	330
NR-4012-470□	47	M N	100KHZ/1V	1.10	0.35	0.37	470
NR-4012-680□	68	M N	100KHZ/1V	1.95	0.38	0.27	680
NR-4012-820□	82	M N	100KHZ/1V	2.14	0.28	0.26	820
NR-4012-101□	100	M N	100KHZ/1V	2.21	0.25	0.25	101

SMD Power Inductors NR-4018 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	TEST FREQ.(Hz)	DCR(mΩ) Max.	IDC1 (A) Max.	IDC2 (A) Max.	MARK
NR-4018-R47□	0.47	N	100KHZ/1V	18	4.3	4.00	R47
NR-4018-R68□	0.68	N	100KHZ/1V	26	4.9	3.30	R68
NR-4018-1R0□	1.0	N	100KHZ/1V	33	4.8	2.00	1R0
NR-4018-1R5□	1.5	N	100KHZ/1V	39	3.35	1.80	1R5
NR-4018-1R8□	1.8	M N	100KHZ/1V	44	3	1.70	1R8
NR-4018-2R2□	2.2	M N	100KHZ/1V	59	2.7	1.65	2R2
NR-4018-3R3□	3.3	M N	100KHZ/1V	91	2.45	1.23	3R3
NR-4018-4R7□	4.7	M N	100KHZ/1V	117	1.7	1.20	4R7
NR-4018-6R8□	6.8	M N	100KHZ/1V	143	1.45	1.06	6R8
NR-4018-100□	10	M N	100KHZ/1V	234	1.3	0.84	100

(1).Specify the inductance tolerance, K(±10%), L(±15%), M(±20%),N(±30%)

(2).IDC1:Base on temp.rise & ΔL/L0A30% typ

(3).IDC2:Temp.rise 40℃Typ

(4).Operating temp.:-40℃ to +125℃

※:Rated DC Current： The less value which is IDC1 or IDC2

SMD Power Inductors NR-4018 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	TEST FREQ.(Hz)	DCR(mΩ) Max.	IDC1 (A) Max.	IDC2 (A) Max.	MARK
NR-4018-150□	15	M N	100KHZ/1V	325	0.94	0.65	150
NR-4018-220□	22	M N	100KHZ/1V	468	0.8	0.59	220
NR-4018-270□	27	M N	100KHZ/1V	611	0.47	0.52	270
NR-4018-330□	33	M N	100KHZ/1V	689	0.56	0.49	330
NR-4018-470□	47	M N	100KHZ/1V	845	0.57	0.42	470
NR-4018-680□	68	M N	100KHZ/1V	1300	0.47	0.32	680
NR-4018-101□	100	M N	100KHZ/1V	2275	0.4	0.25	101
NR-4018-151□	150	M N	100KHZ/1V	3250	0.31	0.22	151
NR-4018-221□	220	M N	100KHZ/1V	5200	0.27	0.17	221

SMD Power Inductors NR-4020 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	TEST FREQ.(Hz)	DCR(Ω) ±30%	IDC1 (A) Max.	IDC2 (A) Max.	MARK
NR-4020-1R0□	1.0	N	100KHZ/1V	0.029	4.78	2.15	1R0
NR-4020-1R2□	1.2	N	100KHZ/1V	0.029	5.10	2.15	1R2
NR-4020-1R5□	1.5	N	100KHZ/1V	0.035	4.45	1.98	1R5
NR-4020-2R2□	2.2	N	100KHZ/1V	0.040	3.40	1.85	2R2
NR-4020-3R3□	3.3	M N	100KHZ/1V	0.070	3.20	1.40	3R3
NR-4020-4R7□	4.7	M N	100KHZ/1V	0.075	2.35	1.34	4R7
NR-4020-5R6□	5.6	M N	100KHZ/1V	0.090	2.20	1.22	5R6
NR-4020-6R8□	6.8	M N	100KHZ/1V	0.125	2.00	1.04	6R8
NR-4020-8R2□	8.2	M N	100KHZ/1V	0.125	1.75	1.04	8R2
NR-4020-100□	10	M N	100KHZ/1V	0.165	1.60	0.90	100
NR-4020-150□	15	M N	100KHZ/1V	0.230	1.35	0.77	150
NR-4020-220□	22	M N	100KHZ/1V	0.350	1.05	0.62	220
NR-4020-330□	33	M N	100KHZ/1V	0.550	0.85	0.49	330
NR-4020-470□	47	M N	100KHZ/1V	0.710	0.74	0.44	470
NR-4020-560□	56	M N	100KHZ/1V	0.800	0.66	0.41	560
NR-4020-680□	68	M N	100KHZ/1V	1.060	0.61	0.36	680
NR-4020-820□	82	M N	100KHZ/1V	1.170	0.50	0.34	820
NR-4020-101□	100	M N	100KHZ/1V	1.550	0.48	0.31	101

(1).Specify the inductance tolerance, K(±10%), L(±15%), M(±20%),N(±30%)

(2).IDC1:Base on temp.rise & ΔL/L0A30% typ

(3).IDC2:Temp.rise 40℃Typ

(4).Operating temp.:-40℃ to +125℃

※:Rated DC Current： The less value which is IDC1 or IDC2

SMD Power Inductors NR-4030 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	TEST FREQ.(Hz)	DCR(Ω) ±30%	IDC1 (A) Max.	IDC2 (A) Max.	MARK
NR-4030-1R0□	1	N	100KHZ/1V	0.016	5.26	4.14	1R0
NR-4030-1R5□	1.5	N	100KHZ/1V	0.020	4.84	3.34	1R5
NR-4030-2R2□	2.2	N	100KHZ/1V	0.030	4.40	2.95	2R2
NR-4030-3R3□	3.3	M N	100KHZ/1V	0.040	3.30	2.40	3R3
NR-4030-4R7□	4.7	M N	100KHZ/1V	0.060	2.90	2.00	4R7
NR-4030-6R8□	6.8	M N	100KHZ/1V	0.090	2.75	1.60	6R8
NR-4030-100□	10	M N	100KHZ/1V	0.100	1.95	1.50	100
NR-4030-150□	15	M N	100KHZ/1V	0.190	1.65	1.11	150
NR-4030-220□	22	M N	100KHZ/1V	0.225	1.30	1.00	220
NR-4030-330□	33	M N	100KHZ/1V	0.330	1.10	0.84	330
NR-4030-470□	47	M N	100KHZ/1V	0.445	0.95	0.72	470
NR-4030-680□	68	M N	100KHZ/1V	0.868	0.72	0.52	680
NR-4030-101□	100	M N	100KHZ/1V	1.15	0.60	0.45	101
NR-4030-151□	150	M N	100KHZ/1V	1.80	0.50	0.30	151
NR-4030-221□	220	M N	100KHZ/1V	2.50	0.40	0.35	221
NR-4030-331□	330	M N	100KHZ/1V	4.00	0.30	0.25	331
NR-4030-471□	470	M N	100KHZ/1V	7.20	0.30	0.20	471
NR-4030-681□	680	M N	100KHZ/1V	7.58	0.19	0.14	681

SMD Power Inductors NR-5020 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	TEST FREQ.(Hz)	DCR(mΩ) Max.	IDC1 (A) Max.	IDC2 (A) Max.	MARK
NR-5020-R47□	0.47	N	100KHZ/1V	12	6.10	5.00	R47
NR-5020-1R0□	1.0	N	100KHZ/1V	21	4.10	3.80	1R0
NR-5020-1R5□	1.5	N	100KHZ/1V	26	4.10	3.20	1R5
NR-5020-2R2□	2.2	N	100KHZ/1V	35	3.20	2.70	2R2
NR-5020-3R3□	3.3	N	100KHZ/1V	48	2.55	2.30	3R3
NR-5020-4R7□	4.7	M N	100KHZ/1V	60	2.50	2.20	4R7
NR-5020-6R8□	6.8	M N	100KHZ/1V	90	2.05	1.80	6R8
NR-5020-8R2□	8.2	M N	100KHZ/1V	98	1.85	16.50	8R2
NR-5020-100□	10	M N	100KHZ/1V	120	1.70	1.55	100

(1).Specify the inductance tolerance, K(±10%), L(±15%), M(±20%),N(±30%)

(2).IDC1:Base on temp.rise & ΔL/L0A30% typ

(3).IDC2:Temp.rise 40℃Typ

(4).Operating temp.:-40℃ to +125℃

※:Rated DC Current： The less value which is IDC1 or IDC2

SMD Power Inductors NR-5020 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	TEST FREQ.(Hz)	DCR(mΩ) Max.	IDC1 (A) Max.	IDC2 (A) Max.	MARK
NR-5020-150□	15	M N	100KHZ/1V	165	1.35	1.25	150
NR-5020-220□	22	M N	100KHZ/1V	260	1.15	1.10	220
NR-5020-330□	33	M	100KHZ/1V	400	0.92	0.90	330
NR-5020-470□	47	M	100KHZ/1V	580	0.77	0.75	470
NR-5020-680□	68	M	100KHZ/1V	740	0.65	0.64	680
NR-5020-101□	100	M	100KHZ/1V	1100	0.53	0.40	101

SMD Power Inductors NR-5040 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	TEST FREQ.(Hz)	DCR(mΩ) ±30%	IDC1 (A) Max.	IDC2 (A) Max.	MARK
NR-5040-1R0□	1.0	M N	100KHZ/1V	13	7.3	4.0	1R0
NR-5040-1R5□	1.5	M N	100KHZ/1V	20	6.0	3.6	1R5
NR-5040-2R2□	2.2	M N	100KHZ/1V	22	4.6	3.5	2R2
NR-5040-3R3□	3.3	M N	100KHZ/1V	27	3.8	3.3	3R3
NR-5040-4R7□	4.7	M N	100KHZ/1V	29	3.3	3.1	4R7
NR-5040-6R8□	6.8	M N	100KHZ/1V	49	2.6	2.3	6R8
NR-5040-8R2□	8.2	M N	100KHZ/1V	53	2.45	2.2	8R2
NR-5040-100□	10	M N	100KHZ/1V	56	2.3	2.10	100
NR-5040-150□	15	M N	100KHZ/1V	80	2.0	1.80	150
NR-5040-220□	22	M N	100KHZ/1V	126	1.6	1.40	220
NR-5040-330□	33	M N	100KHZ/1V	180	1.3	1.20	330
NR-5040-470□	47	M N	100KHZ/1V	310	1.1	0.90	470
NR-5040-680□	68	M N	100KHZ/1V	500	0.9	0.80	680
NR-5040-820□	82	M N	100KHZ/1V	600	0.7	0.70	820
NR-5040-101□	100	M N	100KHZ/1V	800	0.65	0.60	101
NR-5040-151□	150	M N	100KHZ/1V	1180	0.6	0.50	151
NR-5040-181□	180	M N	100KHZ/1V	1250	0.5	0.45	181
NR-5040-221□	220	M N	100KHZ/1V	1450	0.45	0.40	221

(1).Specify the inductance tolerance, K(±10%), L(±15%), M(±20%),N(±30%)

(2).IDC1:Base on temp.rise & ΔL/L0A30% typ

(3).IDC2:Temp.rise 40℃Typ

(4).Operating temp.:-40℃ to +125℃

※:Rated DC Current： The less value which is IDC1 or IDC2

SMD Power Inductors NR-6020 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	TEST FREQ.(Hz)	DCR(Ω) ±30%	IDC1 (A) Max.	IDC2 (A) Max.	MARK
NR-6020-R68□	0.68	N	100KHZ/1V	0.017	6.55	3.80	R68
NR-6020-R82□	0.82	N	100KHZ/1V	0.017	5.30	3.80	R82
NR-6020-1R0□	1.0	N	100KHZ/1V	0.020	4.15	3.50	1R0
NR-6020-1R5□	1.5	N	100KHZ/1V	0.022	4.25	3.20	1R5
NR-6020-2R2□	2.2	M N	100KHZ/1V	0.028	3.75	2.75	2R2
NR-6020-3R3□	3.3	M N	100KHZ/1V	0.035	3.15	2.60	3R3
NR-6020-4R7□	4.7	M N	100KHZ/1V	0.058	3.00	2.00	4R7
NR-6020-6R8□	6.8	M N	100KHZ/1V	0.079	2.20	1.80	6R8
NR-6020-100□	10	M N	100KHZ/1V	0.105	1.75	1.40	100
NR-6020-120□	12	M N	100KHZ/1V	0.120	1.45	1.30	120
NR-6020-150□	15	M N	100KHZ/1V	0.145	1.20	1.20	150
NR-6020-180□	18	M N	100KHZ/1V	0.180	1.20	1.08	180
NR-6020-220□	22	M N	100KHZ/1V	0.204	1.05	1.00	220
NR-6020-330□	33	M N	100KHZ/1V	0.300	0.95	0.84	330
NR-6020-470□	47	M N	100KHZ/1V	0.430	0.70	0.80	470

SMD Power Inductors NR-6028 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	TEST FREQ.(Hz)	DCR(mΩ) ±30%	IDC1 (A) Max.	IDC2 (A) Max.	MARK
NR-6028-R82□	0.82	N	100KHZ/1V	16	6.5	5.2	R82
NR-6028-1R2□	1.2	N	100KHZ/1V	17	6.4	4.5	1R2
NR-6028-1R5□	1.5	N	100KHZ/1V	17	6	4.5	1R5
NR-6028-2R2□	2.2	M N	100KHZ/1V	26	5.1	3.7	2R2
NR-6028-2R7□	2.7	M N	100KHZ/1V	26	3.8	3.7	2R7
NR-6028-3R3□	3.3	M N	100KHZ/1V	33	4.1	3.5	3R3
NR-6028-4R7□	4.7	M N	100KHZ/1V	39	3	3.0	4R7
NR-6028-6R8□	6.8	M N	100KHZ/1V	61	2.6	2.40	6R8
NR-6028-8R2□	8.2	M N	100KHZ/1V	72	2.3	2.25	8R2
NR-6028-100□	10	M N	100KHZ/1V	94	2.04	1.95	100
NR-6028-120□	12	M N	100KHZ/1V	104	1.8	1.85	120
NR-6028-150□	15	M N	100KHZ/1V	133	1.75	1.45	150

(1).Specify the inductance tolerance, K(±10%), L(±15%), M(±20%),N(±30%)

(2).IDC1:Base on temp.rise & ΔL/L0A30% typ

(3).IDC2:Temp.rise 40℃Typ

(4).Operating temp.:-40℃ to +125℃

※:Rated DC Current： The less value which is IDC1 or IDC2

SMD Power Inductors NR-6028 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	TEST FREQ.(Hz)	DCR(mΩ) ±30%	IDC1 (A) Max.	IDC2 (A) Max.	MARK
NR-6028-180□	18	M N	100KHZ/1V	156	1.52	1.45	180
NR-6028-220□	22	M N	100KHZ/1V	182	1.45	1.40	220
NR-6028-270□	27	M N	100KHZ/1V	202	1.4	1.32	270
NR-6028-330□	33	M N	100KHZ/1V	241	1.35	1.22	330
NR-6028-390□	39	M N	100KHZ/1V	293	1.25	1.10	390
NR-6028-470□	47	M N	100KHZ/1V	410	1.15	1.06	470
NR-6028-680□	68	M N	100KHZ/1V	468	0.8	0.86	680
NR-6028-820□	82	M N	100KHZ/1V	650	0.8	0.70	820
NR-6028-101□	100	M N	100KHZ/1V	650	0.65	0.70	101
NR-6028-221□	220	M N	100KHZ/1V	1500	0.45	0.50	221

SMD Power Inductors NR-6045 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	TEST FREQ.(Hz)	DCR(mΩ) ±30%	IDC1 (A) Max.	IDC2 (A) Max.	MARK
NR-6045-R68□	0.68	N	100KHZ/1V	8	11	5.70	R68
NR-6045-1R0□	1.0	M N	100KHZ/1V	14	9.85	5.14	1R0
NR-6045-1R5□	1.5	M N	100KHZ/1V	16	8.8	4.95	1R5
NR-6045-2R2□	2.2	M N	100KHZ/1V	18	6.75	4.60	2R2
NR-6045-2R7□	2.7	M N	100KHZ/1V	20	5.75	4.30	2R7
NR-6045-3R3□	3.3	M N	100KHZ/1V	27	5.9	3.70	3R3
NR-6045-4R7□	4.7	M N	100KHZ/1V	34	4.97	3.30	4R7
NR-6045-5R6□	5.6	M N	100KHZ/1V	38	4.15	3.15	5R6
NR-6045-6R8□	6.8	M N	100KHZ/1V	40	3.9	3.00	6R8
NR-6045-7R5□	7.5	M N	100KHZ/1V	44	3.5	2.90	7R5
NR-6045-8R2□	8.2	M N	100KHZ/1V	56	3.9	2.60	8R2
NR-6045-100□	10	M N	100KHZ/1V	62	3.2	2.45	100
NR-6045-120□	12	M N	100KHZ/1V	75	2.8	2.20	120
NR-6045-150□	15	M N	100KHZ/1V	88	2.5	2.05	150
NR-6045-180□	18	M N	100KHZ/1V	105	2.2	1.85	180
NR-6045-220□	22	M N	100KHZ/1V	116	2.05	1.80	220
NR-6045-270□	27	M N	100KHZ/1V	133	1.9	1.65	270

(1).Specify the inductance tolerance, K(±10%), L(±15%), M(±20%),N(±30%)

(2).IDC1:Base on temp.rise & ΔL/L0A30% typ

(3).IDC2:Temp.rise 40℃Typ

(4).Operating temp.:-40℃ to +125℃

※:Rated DC Current： The less value which is IDC1 or IDC2

SMD Power Inductors NR-6045 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	TEST FREQ.(Hz)	DCR(mΩ) ±30%	IDC1 (A) Max.	IDC2 (A) Max.	MARK
NR-6045-330□	33	M N	100KHZ/1V	178	1.65	1.45	330
NR-6045-390□	39	M N	100KHZ/1V	234	1.5	1.25	390
NR-6045-470□	47	M N	100KHZ/1V	260	1.4	1.20	470
NR-6045-560□	56	M N	100KHZ/1V	287	1.3	1.10	560
NR-6045-680□	68	M N	100KHZ/1V	376	1.2	1.00	680
NR-6045-820□	82	M N	100KHZ/1V	443	1.05	0.90	820
NR-6045-101□	100	M N	100KHZ/1V	563	0.95	0.80	101
NR-6045-151□	150	M N	100KHZ/1V	754	0.8	0.70	151
NR-6045-221□	220	M N	100KHZ/1V	1084	0.7	0.59	221
NR-6045-331□	330	M N	100KHZ/1V	1651	0.57	0.57	331
NR-6045-471□	470	M N	100KHZ/1V	2340	0.5	0.42	471
NR-6045-681□	680	M N	100KHZ/1V	3250	0.42	0.33	681
NR-6045-102□	1000	M N	100KHZ/1V	5850	0.3	0.30	102

SMD Power Inductors NR-8040 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	TEST FREQ.(Hz)	DCR(mΩ) ±30%	IDC1 (A) Max.	IDC2 (A) Max.	MARK
NR-8040-R82□	0.82	M N	100KHZ/1V	10	13.8	6.30	R82
NR-8040-1R0□	1.0	M N	100KHZ/1V	10	9.85	6.30	1R0
NR-8040-1R5□	1.5	M N	100KHZ/1V	13	8.15	5.65	1R5
NR-8040-2R2□	2.2	M N	100KHZ/1V	16	7.1	5.15	2R2
NR-8040-3R3□	3.3	M N	100KHZ/1V	22	6.5	4.40	3R3
NR-8040-3R9□	3.9	M N	100KHZ/1V	22	5.75	4.35	3R9
NR-8040-4R7□	4.7	M N	100KHZ/1V	25	5.9	4.10	4R7
NR-8040-5R6□	5.6	M N	100KHZ/1V	27	6	3.85	5R6
NR-8040-6R8□	6.8	M N	100KHZ/1V	31	4.55	3.85	6R8
NR-8040-8R2□	8.2	M N	100KHZ/1V	34	4.2	3.45	8R2

(1).Specify the inductance tolerance, K(±10%), L(±15%)， M(±20%),N(±30%)
(2).IDC1:Base on temp.rise & ΔL/L0A30% typ
(3).IDC2:Temp.rise 40℃Typ
(4).Operating temp.:-40℃ to +125℃
※:Rated DC Current： The less value which is IDC1 or IDC2

SMD Power Inductors NR-8040 Series

ELECTRICAL CHARACTERISTIC:

Part Number	Inductance (uH)	Tolerance	TEST FREQ.(Hz)	DCR(mΩ) ±30%	IDC1 (A) Max.	IDC2 (A) Max.	MARK
NR-8040-100□	10	M N	100KHZ/1V	38	3.6	3.3	100
NR-8040-120□	12	M N	100KHZ/1V	53	3.5	2.8	120
NR-8040-150□	15	M N	100KHZ/1V	61	2.95	2.6	150
NR-8040-180□	18	M N	100KHZ/1V	69	2.7	2.4	180
NR-8040-220□	22	M N	100KHZ/1V	90	2.4	2.1	220
NR-8040-270□	27	M N	100KHZ/1V	101	2.15	2	270
NR-8040-330□	33	M N	100KHZ/1V	126	2.05	1.8	330
NR-8040-390□	39	M N	100KHZ/1V	139	1.95	1.7	390
NR-8040-470□	47	M N	100KHZ/1V	177	1.75	1.55	470
NR-8040-560□	56	M N	100KHZ/1V	192	1.55	1.45	560
NR-8040-680□	68	M N	100KHZ/1V	255	1.45	1.25	680

(1).Specify the inductance tolerance, K(±10%), L(±15%), M(±20%),N(±30%)

(2).IDC1:Base on temp.rise & ΔL/L0A30% typ

(3).IDC2:Temp.rise 40℃Typ

(4).Operating temp.:-40℃ to +125℃

※:Rated DC Current： The less value which is IDC1 or IDC2