MTC NSD Series SMD Drum type Choke

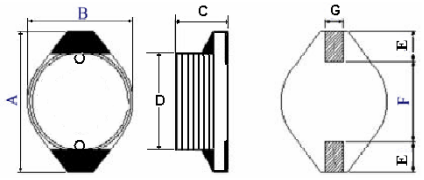
Application Field

- Notebook DC/DC Converter, Handeld devise, VGA card

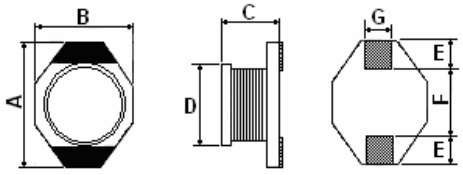
Features

- Open Magnetic circuit construction
- Compact and thin
- Large Current and Low DCR

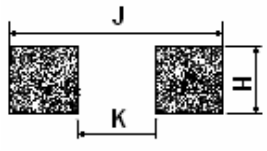
Dimensions and footprint (unit:mm)



NSD1807, NSD1807P, NSD1811



NSD1203, NSD1205, NSD1211



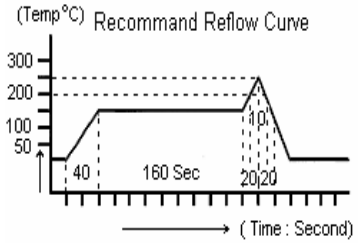
PCB Pattern

TYPE	A(Max)	B(Max)	C(Max)	D(typ)	E(typ)	F(typ)	H(typ)	G(typ)	J(typ)	K(typ)
NSD1203	12.95	9.40	3.0	8.38±0.3	2.54	7.62	7.37	2.54	13.21	7.12
NSD1205	12.95	9.40	5.21	8.38±0.3	2.54	7.62	7.37	2.54	13.21	7.12
NSD1211	12.95	9.40	11.43	8.38±0.3	2.54	7.62	7.37	2.54	13.21	7.12
NSD1807	18.54	15.24	7.1	12.86	2.54	12.7	2.5	2.54	18.29	12.1
NSD1807P	18.54	15.24	7.1	12.86	2.54	12.7	2.5	2.54	18.29	12.1
NSD1811	18.54	15.24	11.5	12.86	2.54	12.7	2.5	2.54	18.29	12.1

General Specification:

1. Storage temp: -40°C ~ +125°C
2. Operating temp: -25°C ~ +105°C
3. Resistance to solder heat : 250°C 10secs
4. Lead free process

Green Product
RoHS compliant



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MTC

SMD Power Choke

NSD1203 series

Part No	L(μH)	RDC(Ω)Max	IDC(A)Min
NSD1203-1R0	1.0	0.024	5.15
NSD1203-2R2	2.2	0.035	4.12
NSD1203-3R3	3.3	0.040	3.02
NSD1203-4R7	4.7	0.045	2.72
NSD1203-5R6	5.6	0.05	2.62
NSD1203-6R8	6.8	0.06	2.52
NSD1203-8R2	8.2	0.08	2.42
NSD1203-100	10	0.11	2.40
NSD1203-120	12	0.13	2.10
NSD1203-150	15	0.15	2.00
NSD1203-180	18	0.18	1.65
NSD1203-220	22	0.23	1.60
NSD1203-270	27	0.27	1.45
NSD1203-330	33	0.30	1.40
NSD1203-390	39	0.35	1.05
NSD1203-470	47	0.39	1.00
NSD1203-560	56	0.45	0.91
NSD1203-680	68	0.66	0.90
NSD1203-820	82	0.74	0.71
NSD1203-101	100	0.84	0.70
NSD1203-121	120	1.00	0.61
NSD1203-151	150	1.20	0.60
NSD1203-181	180	1.50	0.51
NSD1203-221	220	1.90	0.50
NSD1203-271	270	2.40	0.41
NSD1203-331	330	2.70	0.40
NSD1203-391	390	3.00	0.32
NSD1203-471	470	4.00	0.30
NSD1203-561	560	4.20	0.25
NSD1203-681	680	5.30	0.20
NSD1203-821	820	5.80	0.15
NSD1203-102	1000	8.40	0.10

NSD1203-xxxK-E **Code "-E" : lead free process and RoHs compliant**

Inductance tolerance : N±30% M±20% L±15% K±10% J±5% IDC : L / L (0A) 10%

Inductctance sested : 1.0μH - 8.2μH / 100KHZ / 0.25V 10μH - 1000μH / 1KHZ / 0.25V

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MTC SMD Power Choke

NSD1205 series

Part No	L(μH)	RDC(Ω)Max	IDC(A)Min
NSD1205-R68	0.68	0.008	11.00
NSD1205-1R0	1.0	0.009	9.00
NSD1205-1R2	1.2	0.010	8.50
NSD1205-1R5	1.5	0.010	8.00
NSD1205-1R8	1.8	0.011	7.50
NSD1205-2R2	2.2	0.012	7.00
NSD1205-2R5	2.5	0.014	6.50
NSD1205-3R0	3.0	0.014	6.45
NSD1205-3R3	3.3	0.015	6.40
NSD1205-4R7	4.7	0.018	5.40
NSD1205-5R6	5.6	0.025	4.70
NSD1205-6R8	6.8	0.027	4.60
NSD1205-8R2	8.2	0.036	4.00
NSD1205-100	10	0.038	3.80
NSD1205-120	12	0.044	3.20
NSD1205-150	15	0.046	3.00
NSD1205-180	18	0.066	2.70
NSD1205-220	22	0.085	2.60
NSD1205-270	27	0.095	2.10
NSD1205-300	30	0.098	2.00
NSD1205-330	33	0.100	2.00
NSD1205-390	39	0.130	1.70
NSD1205-470	47	0.140	1.60
NSD1205-560	56	0.190	1.50
NSD1205-680	68	0.200	1.40
NSD1205-820	82	0.260	1.25
NSD1205-101	100	0.280	1.20
NSD1205-121	120	0.360	1.02
NSD1205-151	150	0.400	1.00
NSD1205-181	180	0.540	0.82
NSD1205-221	220	0.610	0.80
NSD1205-271	270	0.840	0.62
NSD1205-331	330	1.020	0.60
NSD1205-391	390	1.250	0.52
NSD1205-471	470	1.270	0.50
NSD1205-561	560	1.850	0.42
NSD1205-681	680	2.020	0.40
NSD1205-821	820	2.530	0.35
NSD1205-102	1000	3.000	0.30
NSD1205-103	10000	39.00	0.10

NSD1205-xxxK-E **Code "-E" : Lead free process and RoHs compliant**

Inductance tolerance : N±30% M±20% L±15% K±10% J±5% IDC : L / L (0A) 10%

Inductctance sested : 0.68μH - 8.2μH / 100KHZ / 0.25V 10μH -10000μH / 1KHZ / 0.25V

Green Product
RoHS compliant

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MTC

SMD Power Choke

NSD1211 series

Part No	L(μH)	RDC(Ω)Max	IDC(A)Min
NSD1211 - R47	0.47	0.008	23.50
NSD1211 - R75	0.75	0.008	20.00
NSD1211 - 1R0	1.00	0.009	20.00
NSD1211 - 1R5	1.50	0.010	14.00
NSD1211 - 1R7	1.70	0.010	14.00
NSD1211 - 1R8	1.80	0.010	14.00
NSD1211 - 2R0	2.00	0.011	13.80
NSD1211 - 2R2	2.20	0.012	13.50
NSD1211 - 3R0	3.00	0.013	13.40
NSD1211 - 3R3	3.30	0.013	13.20
NSD1211 - 4R7	4.70	0.014	13.00
NSD1211 - 5R6	5.60	0.016	10.20
NSD1211 - 6R0	6.00	0.016	11.20
NSD1211 - 6R3	6.30	0.017	11.00
NSD1211 - 6R8	6.80	0.020	10.00
NSD1211 - 6R9	6.90	0.021	9.00
NSD1211 - 8R2	8.20	0.030	9.00
NSD1211 - 100	10	0.040	8.00
NSD1211 - 120	12	0.042	7.20
NSD1211 - 150	15	0.050	7.00
NSD1211 - 180	18	0.052	5.70
NSD1211 - 200	20	0.062	5.60
NSD1211 - 220	22	0.066	5.50
NSD1211 - 270	27	0.072	4.20
NSD1211 - 300	30	0.075	4.10
NSD1211 - 330	33	0.080	4.00
NSD1211 - 390	39	0.092	3.90
NSD1211 - 470	47	0.11	3.80
NSD1211 - 560	56	0.15	3.20
NSD1211 - 680	68	0.17	3.00
NSD1211 - 820	82	0.20	2.60
NSD1211 - 101	100	0.22	2.50
NSD1211 - 121	120	0.32	2.20
NSD1211 - 151	150	0.34	2.00
NSD1211 - 181	180	0.42	1.80
NSD1211 - 221	220	0.44	1.60
NSD1211 - 271	270	0.60	1.30
NSD1211 - 331	330	0.70	1.20
NSD1211 - 391	390	0.85	1.10
NSD1211 - 471	470	0.95	1.00
NSD1211 - 561	560	1.10	1.00
NSD1211 - 681	680	1.20	1.00
NSD1211 - 821	820	1.50	0.82
NSD1211 - 102	1000	2.00	0.80

NSD1211-xxxK-E Code "-E" : Lead free process and RoHs compliant

Inductance tolerance : N±30% M±20% L±15% K±10% J±5% IDC : L / L (0A) 10%

Inductctance sested : 0.47μH - 8.2μH / 100KHZ / 0.25V 10μH - 1000μH / 1KHZ / 0.25V

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