

Application Field

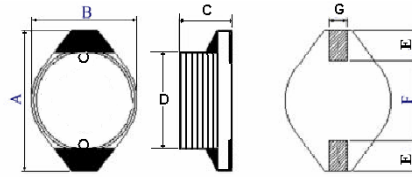
- Notebook DC/DC Converter, Handeld devise, VGA card



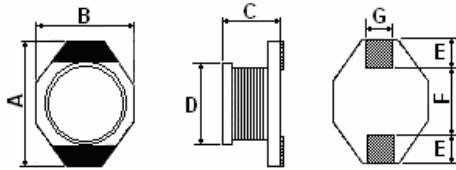
Features

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

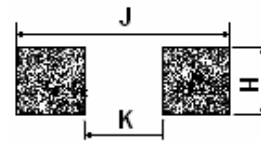
Dimensions and footprint (unit:mm)



NSD1807, NSD1807P, NSD1811



NSD1203, NSD1205, NSD1211

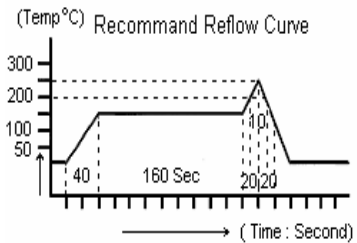


PCB Pattern

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





NSD1807P series

Part No	L(μ H)	RDC(Ω)Max	IDC(A)Min
NSD1807P- 1R0	1.0	0.013	20.0
NSD1807P- 2R2	2.2	0.016	16.0
NSD1807P- 3R3	3.3	0.018	14.0
NSD1807P- 4R7	4.7	0.025	13.0
NSD1807P- 5R6	5.6	0.025	12.0
NSD1807P- 100	10	0.037	10.0
NSD180P- 150	15	0.041	8.00
NSD1807P- 220	22	0.054	7.00
NSD1807P- 330	33	0.076	5.50
NSD180P- 470	47	0.100	4.50
NSD1807P- 680	68	0.150	3.50
NSD1807P- 101	100	0.219	3.00
NSD1807P- 151	150	0.288	2.60
NSD1807P- 221	220	0.437	2.40
NSD1807P- 331	330	0.644	1.90
NSD1807P- 471	470	0.978	1.40
NSD1807P- 681	680	1.380	1.20
NSD1807P- 102	1000	2.070	1.00

NSD1807P-xxxK-E Code "-E" : Lead free process and RoHs compliant

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

Inductance tested : 1.0 μ H - 8.2 μ H / 100KHZ / 0.25V 10 μ H - 8000 μ H / 1KHZ / 0.25V



NSD1811 series

Part No	L(μ H)	RDC(Ω)Max	IDC(A)Min
NSD1811- 1R0	1.0		
NSD1811- 2R2	2.2		
NSD1811- 3R3	3.3		
NSD1811- 4R7	4.7		
NSD1811- 5R6	5.6		
NSD1811- 100	10		
NSD1811- 150	15		
NSD1811- 220	22		
NSD1811- 330	33		
NSD1811- 470	47		
NSD1811- 680	68		
NSD1811- 101	100	0.125	3.60
NSD1811- 151	150		
NSD1811- 221	220		
NSD1811- 331	330	0.370	2.00
NSD1811- 471	470		
NSD1811- 681	680		
NSD1811- 102	1000		

NSD1811-xxxK-E Code "-E" : Lead free process and RoHs compliant

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

Inductance tested : 1.0 μ H - 8.2 μ H / 100KHZ / 0.25V 10 μ H - 1000 μ H / 1KHZ / 0.25V

Application Field

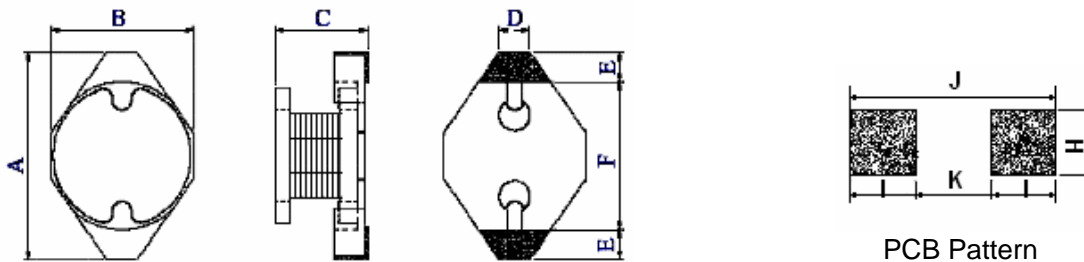
- Notebook DC/DC Converter, Handeld devise, VGA card

Features

- Open Magnetic circuit construction
- Compact and thin
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Dimensions and footprint (unit:mm)

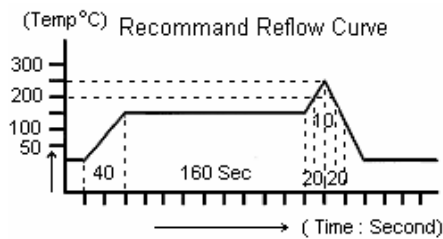


NSDA1606,NSDA1608

TYPE	A	B	C	D(typ)	E(typ)	F(typ)	H(typ)	I(typ)	J(typ)
NSDA1608	6.60±0.3	4.45±0.3	2.92	1.27	1.02	4.6	1.2	1.4	7.0

General Specification:

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



NSDA1608 series

Part No	L(μ H)	RDC(Ω)Max	IDC(A)Min
NSDA1608-1R0	1.0	0.05	2.90
NSDA1608-1R5	1.5	0.05	2.80
NSDA1608-2R2	2.2	0.07	2.40
NSDA1608-2R5	2.5	0.08	2.10
NSDA1608-3R3	3.3	0.08	2.00
NSDA1608-4R7	4.7	0.09	1.50
NSDA1608-5R6	5.6	0.12	1.42
NSDA1608-6R8	6.8	0.13	1.40
NSDA1608-8R2	8.2	0.15	1.15
NSDA1608-100	10.0	0.16	1.10
NSDA1608-120	12	0.22	1.05
NSDA1608-150	15	0.23	1.00
NSDA1608-180	18	0.35	0.82
NSDA1608-220	22	0.37	0.80
NSDA1608-270	27	0.45	0.63
NSDA1608-330	33	0.51	0.60
NSDA1608-390	39	0.62	0.52
NSDA1608-470	47	0.64	0.50
NSDA1608-560	56	0.85	0.43
NSDA1608-680	68	0.86	0.40
NSDA1608-820	82	1.24	0.36
NSDA1608-101-2	100	2.50	0.32
NSDA1608-101	100	1.27	0.30
NSDA1608-121	120	1.75	0.28
NSDA1608-151	150	2.00	0.25
NSDA1608-181	180	2.60	0.22
NSDA1608-221-1	220	3.11	0.22
NSDA1608-221	220	2.65	0.20
NSDA1608-271	270	3.70	0.18
NSDA1608-331	330	3.80	0.16
NSDA1608-391	390	5.00	0.15
NSDA1608-471	470	5.06	0.15
NSDA1608-561	560	9.10	0.13
NSDA1608-681	680	9.20	0.12
NSDA1608-821	820	13.5	0.08
NSDA1608-102	1000	13.8	0.07
NSDA1608-332	3300	57.51	0.054
NSDA1608-103	10000	214.24	0.028

NSDA1608-xxxK-E , Code "-E" : Lead free process and RoHs compliant

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