

NSD1807S Series

Features :

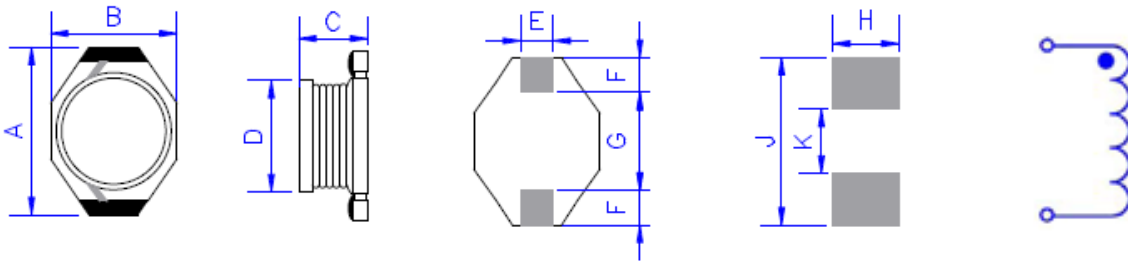
- DC power supply circuit
- Operating temperature range of -25°C to +105°C
- Storage temperature range of -40°C to +125°C
- Resistance to solder heat : 250°C 10secs
- Low DC resistance, High current capacity and high impedance characteristics
- Excellent solder heat resistance, Both flow and reflow soldering methods can be employed
- Open Magnetic circuit construction

Applications :

- LCD panels , Power line choke , DC-DC converter , laptops and PC



Shapes And Dimensions : (Unit :mm)



Type	A (max.)	B (max.)	C (max.)	D	E (ref.)	F (ref.)	G (ref.)	H (ref.)	J (ref.)	K (ref.)
NSD1807S	18.54	15.24	7.1		2.54	2.54	12.7	2.5	18.29	12.1

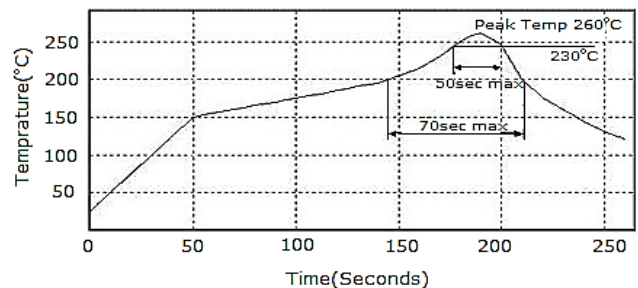
Part Number Code :

NSD 1807S -1R5 M -E
1 2 3 4 5

1. Product type
2. Size code
3. Inductance value (1R5 : 1.5uH 150 : 15uH)
4. Tolerance : N±30% M±20% L±15% K±10% J±5%
5. E: Lead free, Rohs compliant

Reflow Profile :

Peak Temp : 260°C
Max time above 230°C 50sec
Max time above 200°C 70sec



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Part No.	L (uH)	Tolerance	Test Freq.	DCR(Ω) (max.)	IDC (A) (max.)
NSD1807S-1R0	1.00	M	100KHz 0.25V	0.009	20.000
NSD1807S-2R2	2.20	M	100KHz 0.25V	0.014	16.000
NSD1807S-3R3	3.30	M	100KHz 0.25V	0.018	14.000
NSD1807S-4R7	4.70	M	100KHz 0.25V	0.019	13.000
NSD1807S-5R6	5.60	M	100KHz 0.25V	0.020	12.000
NSD1807S-6R8	6.80	M	100KHz 0.25V	0.022	10.600
NSD1807S-7R8	7.80	M	100KHz 0.25V	0.023	10.500
NSD1807S-8R2	8.20	M	100KHz 0.25V	0.024	10.300
NSD1807S-100	10.00	M	1.0KHz 0.25V	0.031	10.000
NSD1807S-120	12.00	M	1.0KHz 0.25V	0.034	8.200
NSD1807S-150	15.00	M	1.0KHz 0.25V	0.036	8.000
NSD1807S-180	18.00	M	1.0KHz 0.25V	0.045	7.200
NSD1807S-220	22.00	M	1.0KHz 0.25V	0.047	7.000
NSD1807S-270	27.00	M	1.0KHz 0.25V	0.056	5.800
NSD1807S-330	33.00	M	1.0KHz 0.25V	0.066	5.500
NSD1807S-390	39.00	M	1.0KHz 0.25V	0.080	4.600
NSD1807S-470	47.00	M	1.0KHz 0.25V	0.086	4.500
NSD1807S-560	56.00	M	1.0KHz 0.25V	0.128	3.700
NSD1807S-680	68.00	M	1.0KHz 0.25V	0.130	3.500
NSD1807S-820	82.00	M	1.0KHz 0.25V	0.180	3.100
NSD1807S-101.	100.00	M	1.0KHz 0.25V	0.190	3.000
NSD1807S-121	120.00	M	1.0KHz 0.25V	0.240	2.800
NSD1807S-151	150.00	M	1.0KHz 0.25V	0.250	2.600
NSD1807S-181	180.00	M	1.0KHz 0.25V	0.360	2.500
NSD1807S-221	220.00	M	1.0KHz 0.25V	0.380	2.400
NSD1807S-271	270.00	M	1.0KHz 0.25V	0.520	2.000
NSD1807S-331	330.00	M	1.0KHz 0.25V	0.560	1.900
NSD1807S-391	390.00	M	1.0KHz 0.25V	0.720	1.500
NSD1807S-471	470.00	M	1.0KHz 0.25V	0.850	1.400
NSD1807S-561	560.00	M	1.0KHz 0.25V	1.080	1.300
NSD1807S-681	680.00	M	1.0KHz 0.25V	1.100	1.200
NSD1807S-821	820.00	M	1.0KHz 0.25V	1.600	1.030
NSD1807S-102	1000.00	M	1.0KHz 0.25V	1.800	1.000
NSD1807S-202	2000.00	M	1.0KHz 0.25V	3.385	0.600
NSD1807S-802	8000.00	M	1.0KHz 0.25V	14.000	0.300

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

Inductanc tolerance : N \pm 30% M \pm 20% L \pm 15% K \pm 10% J \pm 5%

IDC : Δ L/L(0A) \leq 10%