

### NSD1205S Series

#### Features :

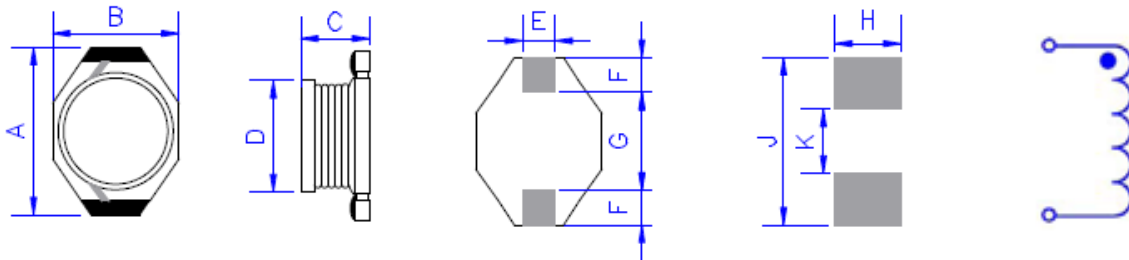
- DC power supply circuit
- Operating temperature range of -25°C to +105°C
- Storage temperature range of -40°C to +125°C
- Resistance to solder heat : 250°C 10secs
- Low DC resistance, High current capacity and high impedance characteristics
- Excellent solder heat resistance, Both flow and reflow soldering 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 ± 0.3	E ± 0.3	F ± 0.3	G ± 0.3	H (ref.)	J (ref.)	K (ref.)
NSD1205S	12.95	9.4	5.21	8.38	2.54	2.54	7.62	3.0	13.2	7.12

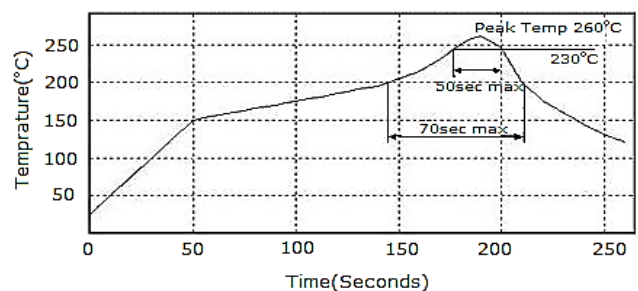
#### Part Number Code :

NSD 1205S -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.)
NSD1205S-R68	0.68	M	100KHz 0.25V	0.008	11.000
NSD1205S-1R0	1.00	M	100KHz 0.25V	0.009	9.000
NSD1205S-1R2	1.20	M	100KHz 0.25V	0.010	8.500
NSD1205S-1R5	1.50	M	100KHz 0.25V	0.010	8.000
NSD1205S-1R8	1.80	M	100KHz 0.25V	0.011	7.500
NSD1205S-2R2	2.20	M	100KHz 0.25V	0.012	7.000
NSD1205S-2R5	2.50	M	100KHz 0.25V	0.014	6.500
NSD1205S-3R0	3.00	M	100KHz 0.25V	0.014	6.450
NSD1205S-3R3	3.30	M	100KHz 0.25V	0.015	6.400
NSD1205S-4R7	4.70	M	100KHz 0.25V	0.018	5.400
NSD1205S-5R6	5.60	M	100KHz 0.25V	0.025	4.700
NSD1205S-6R8	6.80	M	100KHz 0.25V	0.027	4.600
NSD1205S-8R2	8.20	M	100KHz 0.25V	0.036	4.000
NSD1205S-100	10.00	M	1.0KHz 0.25V	0.038	3.800
NSD1205S-120	12.00	M	1.0KHz 0.25V	0.044	3.200
NSD1205S-150	15.00	M	1.0KHz 0.25V	0.046	3.000
NSD1205S-180	18.00	M	1.0KHz 0.25V	0.066	2.700
NSD1205S-220	22.00	M	1.0KHz 0.25V	0.085	2.600
NSD1205S-270	27.00	M	1.0KHz 0.25V	0.095	2.100
NSD1205S-300	30.00	M	1.0KHz 0.25V	0.098	2.000
NSD1205S-330	33.00	M	1.0KHz 0.25V	0.100	2.000
NSD1205S-390	39.00	M	1.0KHz 0.25V	0.130	1.700
NSD1205S-470	47.00	M	1.0KHz 0.25V	0.140	1.600
NSD1205S-560	56.00	M	1.0KHz 0.25V	0.190	1.500
NSD1205S-680	68.00	M / K	1.0KHz 0.25V	0.200	1.500
NSD1205S-820	82.00	M	1.0KHz 0.25V	0.260	1.250
NSD1205S-101	100.00	M	1.0KHz 0.25V	0.280	1.200
NSD1205S-121	120.00	M	1.0KHz 0.25V	0.360	1.020
NSD1205S-151	150.00	M	1.0KHz 0.25V	0.400	1.000
NSD1205S-181	180.00	M	1.0KHz 0.25V	0.540	0.820
NSD1205S-221	220.00	M	1.0KHz 0.25V	0.610	0.800
NSD1205S-271	270.00	M	1.0KHz 0.25V	0.840	0.620
NSD1205S-331	330.00	M	1.0KHz 0.25V	1.020	0.600
NSD1205S-391	390.00	M	1.0KHz 0.25V	1.250	0.520
NSD1205S-471	470.00	M	1.0KHz 0.25V	1.270	0.500
NSD1205S-561	560.00	M	1.0KHz 0.25V	1.850	0.420
NSD1205S-681	680.00	M	1.0KHz 0.25V	2.020	0.400
NSD1205S-821	820.00	M	1.0KHz 0.25V	2.530	0.350
NSD1205S-102	1000.00	M / K	1.0KHz 0.25V	3.000	0.300
NSD1205S-152	1500.00	M / K	100KHz 0.10V	4.490	0.290
NSD1205S-202	2000.00	M	100KHz 0.25V	6.450	0.200
NSD1205S-222	2200.00	K	100KHz 0.25V	8.200	0.240
NSD1205S-332	3300.00	K	1.0KHz 0.25V	10.200	0.250

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

Inductance tolerance : N±30% M±20% L±15% K±10% J±5%

IDC : ΔL/L(0A) ≤ 10%