

SD1008 Series

Features :

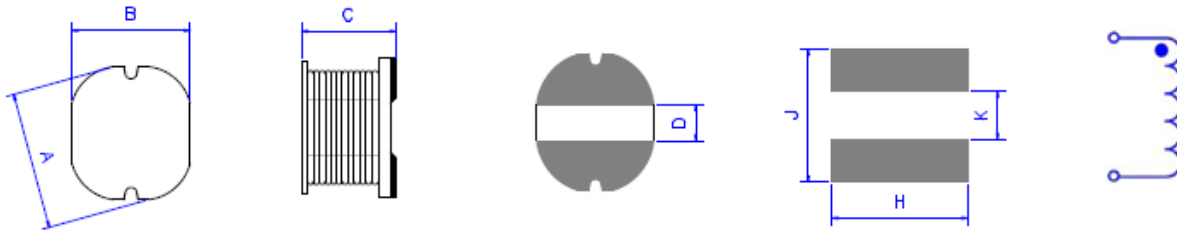
- DC power supply circuit
- Operating temperature range of -25°C to +85°C
- Storage temperature range of -40°C to +125°C
- Resistance to solder heat : 250°C 10secs
- Low DC resistance, High current capacity and high impedance characteristics
- Excellent solder heat resistance, Both flow and reflow soldering 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	B	C (max.)	D (ref.)	H (ref.)	J (ref.)	K (ref.)
SD1008	10.0 ± 0.4	9.0 ± 0.3	8.5	3.0	9.5	10.0	2.5

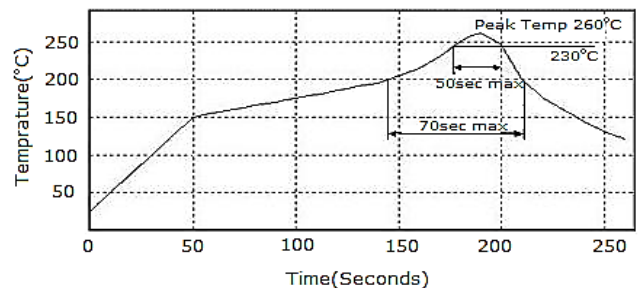
Part Number Code :

SD 1008 -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.)
SD1008-1R0	1.00	M	100KHz 0.25V	0.007	14.000
SD1008-1R4	1.40	M	100KHz 0.25V	0.008	13.500
SD1008-1R8	1.80	M	100KHz 0.25V	0.009	13.000
SD1008-2R2	2.20	M	100KHz 0.25V	0.011	12.800
SD1008-2R7	2.70	M	100KHz 0.25V	0.012	11.400
SD1008-3R3	3.30	M	100KHz 0.25V	0.013	11.000
SD1008-3R9	3.90	M	100KHz 0.25V	0.014	10.200
SD1008-4R7	4.70	M	100KHz 0.25V	0.015	9.150
SD1008-5R6	5.60	M	100KHz 0.25V	0.019	8.370
SD1008-6R8	6.80	M	100KHz 0.25V	0.020	7.580
SD1008-8R2	8.20	M	100KHz 0.25V	0.023	6.550
SD1008-100	10.00	M / K	1.0KHz 0.25V	0.030	5.990
SD1008-120	12.00	M / K	1.0KHz 0.25V	0.033	5.400
SD1008-150	15.00	M / K	1.0KHz 0.25V	0.037	4.950
SD1008-180	18.00	M / K	1.0KHz 0.25V	0.053	4.350
SD1008-220	22.00	M / K	1.0KHz 0.25V	0.061	3.990
SD1008-270	27.00	M / K	1.0KHz 0.25V	0.064	3.700
SD1008-330	33.00	M / K	1.0KHz 0.25V	0.087	3.290
SD1008-360	36.00	M	1.0KHz 0.25V	0.080	3.100
SD1008-390	39.00	M / K	1.0KHz 0.25V	0.096	3.010
SD1008-470	47.00	M / K	1.0KHz 0.25V	0.110	2.780
SD1008-560	56.00	M / K	1.0KHz 0.25V	0.120	2.570
SD1008-680	68.00	M / K	1.0KHz 0.25V	0.160	2.280
SD1008-820	82.00	M / K	1.0KHz 0.25V	0.170	2.100
SD1008-101	100.00	M / K	1.0KHz 0.25V	0.230	1.930
SD1008-121	120.00	M / K	1.0KHz 0.25V	0.270	1.750
SD1008-151	150.00	M / K	1.0KHz 0.25V	0.310	1.580
SD1008-181	180.00	M / K	1.0KHz 0.25V	0.360	1.440
SD1008-201	200.00	M / K	1.0KHz 0.25V	0.390	1.380
SD1008-221	220.00	M / K	1.0KHz 0.25V	0.460	1.300
SD1008-271	270.00	M / K	1.0KHz 0.25V	0.530	1.170
SD1008-331	330.00	M / K	1.0KHz 0.25V	0.650	1.060
SD1008-391	390.00	M / K	1.0KHz 0.25V	0.810	0.960
SD1008-471	470.00	M / K	1.0KHz 0.25V	1.010	0.880
SD1008-561	560.00	M / K	1.0KHz 0.25V	1.190	0.810
SD1008-681	680.00	M / K	1.0KHz 0.25V	1.430	0.740
SD1008-821	820.00	M / K	1.0KHz 0.25V	1.720	0.660

Part No.	L (uH)	Tolerance	Test Freq.	DCR(Ω) (max.)	IDC (A) (max.)
SD1008-102	1000.00	M / K	1.0KHz 0.25V	2.080	0.600
SD1008-122	1200.00	M / K	1.0KHz 0.25V	2.490	0.550
SD1008-152	1500.00	M / K	1.0KHz 0.25V	3.120	0.490
SD1008-182	1800.00	M / K	1.0KHz 0.25V	3.830	0.450
SD1008-202	2000.00	M / K	1.0KHz 0.25V	4.320	0.410
SD1008-222	2200.00	M / K	1.0KHz 0.25V	4.600	0.400
SD1008-252	2500.00	M / K	1.0KHz 0.25V	5.450	0.380
SD1008-272	2700.00	M / K	1.0KHz 0.25V	5.670	0.360
SD1008-302	3000.00	M / K	1.0KHz 0.25V	6.540	0.350
SD1008-332	3300.00	M / K	1.0KHz 0.25V	6.910	0.330
SD1008-392	3900.00	M / K	1.0KHz 0.25V	8.600	0.300
SD1008-472	4700.00	M / K	1.0KHz 0.25V	9.730	0.280
SD1008-562	5600.00	M / K	1.0KHz 0.25V	12.160	0.250
SD1008-682	6800.00	M / K	1.0KHz 0.25V	15.170	0.230
SD1008-822	8200.00	M / K	1.0KHz 0.25V	16.860	0.210
SD1008-103	10000.00	M / K	1.0KHz 0.25V	21.340	0.190
SD1008-473	47000.00	K	100KHz 0.25V	112.800	0.080

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 : $\Delta L/L(0A) \leq 10\%$