

SD1005 Series

Features :

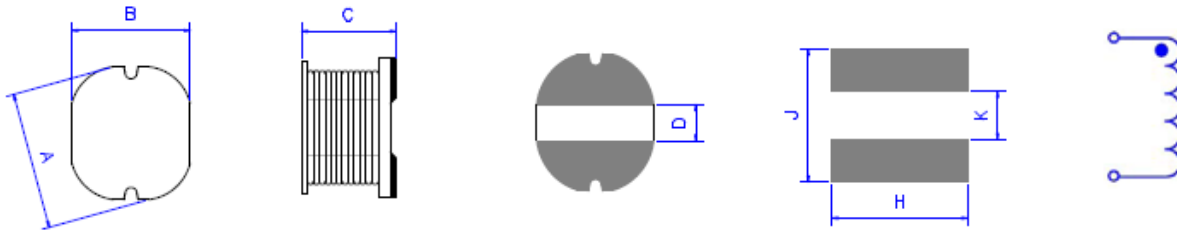
- DC power supply circuit
- Operating temperature range of -25°C to +85°C
- Storage temperature range of -40°C to +125°C
- Resistance to solder heat : 250°C 10secs
- Low DC resistance, High current capacity and high impedance characteristics
- Excellent solder heat resistance, Both flow and reflow soldering 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	D (ref.)	H (ref.)	J (ref.)	K (ref.)
SD1005	10.0 ± 0.4	9.0 ± 0.3	5.4 ± 0.4	2.1	9.5	10.0	2.5

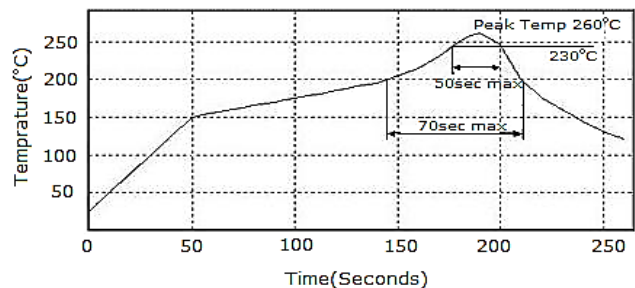
Part Number Code :

SD 1005 -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.)
SD1005-1R0	1.00	M	100KHz 0.25V	0.090	8.630
SD1005-1R2	1.20	M	100KHz 0.25V	0.009	8.630
SD1005-1R5	1.50	M	100KHz 0.25V	0.010	8.000
SD1005-1R6	1.60	M	100KHz 0.25V	0.013	8.000
SD1005-2R2	2.20	M	100KHz 0.25V	0.014	6.800
SD1005-3R3	3.30	M	100KHz 0.25V	0.018	3.050
SD1005-4R7	4.70	M	100KHz 0.25V	0.020	2.900
SD1005-5R6	5.60		100KHz 0.25V	0.023	3.600
SD1005-6R8	6.80	M	100KHz 0.25V	0.040	2.750
SD1005-8R2	8.20	M	100KHz 0.25V	0.050	2.700
SD1005-100	10.00	M / K	2,520KHz 0.25V	0.060	2.600
SD1005-120	12.00	M / K	1.0KHz 0.25V	0.070	2.450
SD1005-150	15.00	M / K	1.0KHz 0.25V	0.080	2.270
SD1005-180	18.00	M / K	1.0KHz 0.25V	0.090	2.150
SD1005-220	22.00	M / K	1.0KHz 0.25V	0.100	1.950
SD1005-270	27.00	M / K	1.0KHz 0.25V	0.110	1.760
SD1005-330	33.00	M / K	1.0KHz 0.25V	0.120	1.500
SD1005-390	39.00	M / K	1.0KHz 0.25V	0.140	1.370
SD1005-470	47.00	M / K	2,520KHz 0.25V	0.170	1.280
SD1005-560	56.00	M / K	1.0KHz 0.25V	0.190	1.170
SD1005-680	68.00	M / K	1.0KHz 0.25V	0.220	1.110
SD1005-750	75.00	M	1.0KHz 0.25V	0.240	1.050
SD1005-820	82.00	M / K	1.0KHz 0.25V	0.250	1.000
SD1005-101	100.00	M / K	1.0KHz 0.25V	0.350	0.970
SD1005-111	110.00	M / K	1.0KHz 0.25V	0.380	0.910
SD1005-121	120.00	M / K	1.0KHz 0.25V	0.400	0.890
SD1005-151	150.00	M / K	1.0KHz 0.25V	0.470	0.780
SD1005-171	170.00	M	1.0KHz 0.25V	0.630	1.000
SD1005-181	180.00	M / K	1.0KHz 0.25V	0.630	0.720
SD1005-221	220.00	M / K	1.0KHz 0.25V	0.730	0.660
SD1005-271	270.00	M / K	1.0KHz 0.25V	0.970	0.570
SD1005-331	330.00	M / K	1.0KHz 0.25V	1.150	0.520
SD1005-391	390.00	M / K	1.0KHz 0.25V	1.300	0.480
SD1005-471	470.00	M / K	1.0KHz 0.25V	1.480	0.420
SD1005-561	560.00	M / K	1.0KHz 0.25V	1.900	0.330
SD1005-681	680.00	M / K	1.0KHz 0.25V	2.250	0.280
SD1005-821	820.00	M / K	1.0KHz 0.25V	2.550	0.240
SD1005-102	1000.00	M / K	1.0KHz 0.25V	3.490	0.200
SD1005-152	1500.00	M	100KHz 0.25V	6.000	0.180
SD1005-222	2200.00	M / K	1.0KHz 0.25V	31.000	0.160
SD1005-802	8000.00	M / K	1.0KHz 0.25V	22.000	0.110
SD1005-103	10000.00	M / K	1.0KHz 0.25V	31.000	0.105
SD1005-183	18000.00	K	1.0KHz 0.25V	40.000	0.100

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

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

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