

SD0503 Series

Features :

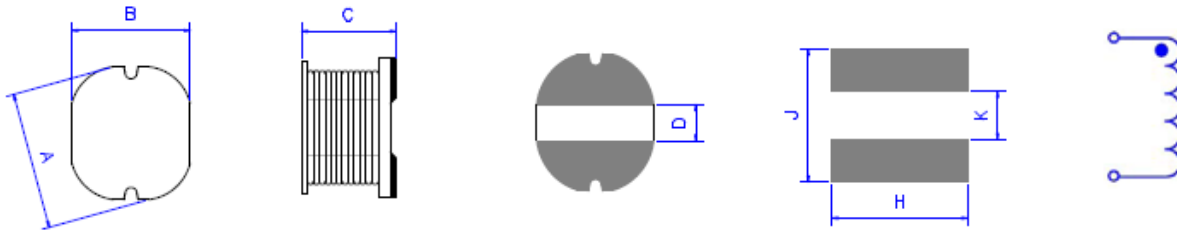
- DC power supply circuit
- Operating temperature range of -25°C to +85°C
- Storage temperature range of -40°C to +125°C
- Resistance to solder heat : 250°C 10secs
- Low DC resistance, High current capacity and high impedance characteristics
- Excellent solder heat resistance, Both flow and reflow soldering 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.)
SD0503	5.8 ± 0.3	5.2 ± 0.3	3.0 ± 0.3	1.3	5.5	6.0	1.7

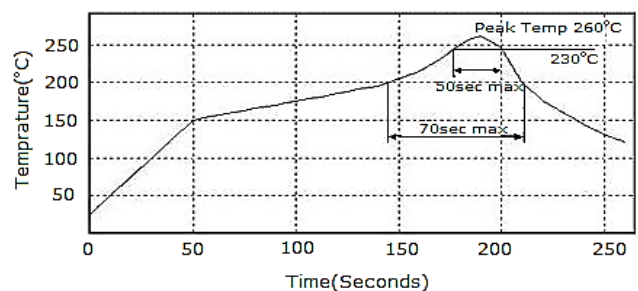
Part Number Code :

SD 0503 -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.)
SD0503-1R0	1.00	M	100KHz 0.25V	0.020	4.000
SD0503-1R2	1.20	M	100KHz 0.25V	0.022	3.950
SD0503-1R4	1.40	M	100KHz 0.25V	0.030	4.100
SD0503-1R5	1.50	M	100KHz 0.25V	0.024	3.900
SD0503-1R8	1.80	M	100KHz 0.25V	0.026	3.850
SD0503-2R2	2.20	M	100KHz 0.25V	0.028	3.800
SD0503-2R7	2.70	M	100KHz 0.25V	0.030	3.700
SD0503-3R3	3.30	M	100KHz 0.25V	0.040	3.400
SD0503-3R6	3.60		100KHz 0.25V	0.040	3.300
SD0503-3R9	3.90	M	100KHz 0.25V	0.040	3.200
SD0503-4R1	4.10	M	100KHz 0.25V	0.045	3.150
SD0503-4R7	4.70	M / K	100KHz 0.25V	0.050	3.100
SD0503-5R3	5.30	M	100KHz 0.25V	0.065	2.900
SD0503-5R6	5.60	M	100KHz 0.25V	0.070	2.800
SD0503-6R8	6.80	M / K	100KHz 0.25V	0.080	2.500
SD0503-8R2	8.20	M	100KHz 0.25V	0.090	2.200
SD0503-100	10.00	M / K	1.0KHz 0.25V	0.110	1.900
SD0503-120	12.00	M / K	1.0KHz 0.25V	0.130	1.600
SD0503-150	15.00	M / K	1.0KHz 0.25V	0.150	1.300
SD0503-180	18.00	M / K	1.0KHz 0.25V	0.180	1.000
SD0503-220	22.00	M / K	1.0KHz 0.25V	0.220	0.930
SD0503-270	27.00	M / K	1.0KHz 0.25V	0.270	0.860
SD0503-330	33.00	M / K	1.0KHz 0.25V	0.310	0.790
SD0503-390	39.00	M / K	1.0KHz 0.25V	0.330	0.780
SD0503-470	47.00	M / K	1.0KHz 0.25V	0.450	0.720
SD0503-560	56.00	M / K	1.0KHz 0.25V	0.580	0.650
SD0503-680	68.00	M / K	1.0KHz 0.25V	0.670	0.580
SD0503-820	82.00	M / K	1.0KHz 0.25V	0.890	0.510
SD0503-101	100.00	M / K	1.0KHz 0.25V	1.220	0.440
SD0503-121	120.00	M / K	1.0KHz 0.25V	1.300	0.400
SD0503-151	150.00	M / K	1.0KHz 0.25V	1.410	0.370
SD0503-181	180.00	M / K	1.0KHz 0.25V	1.850	0.350
SD0503-221	220.00	M / K	1.0KHz 0.25V	1.900	0.330
SD0503-331	330.00	M / K	1.0KHz 0.25V	3.400	0.300
SD0503-471	470.00	M / K	1.0KHz 0.25V	4.400	0.270
SD0503-681	680.00		1.0KHz 0.25V	6.500	0.240
SD0503-821	820.00	M	1.0KHz 0.25V	7.800	0.220
SD0503-102	1000.00	M / K	1.0KHz 0.25V	10.750	0.190
SD0503-202	2000.00	M	2.52KHz 0.25V	25.000	0.120
SD0503-183	18000.00	M / K	1.0KHz 0.25V	210.59	0.042
SD0503-203	20000.00	M	1.0KHz 0.25V	240.00	0.018

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

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

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