

SD0504 Series

Features :

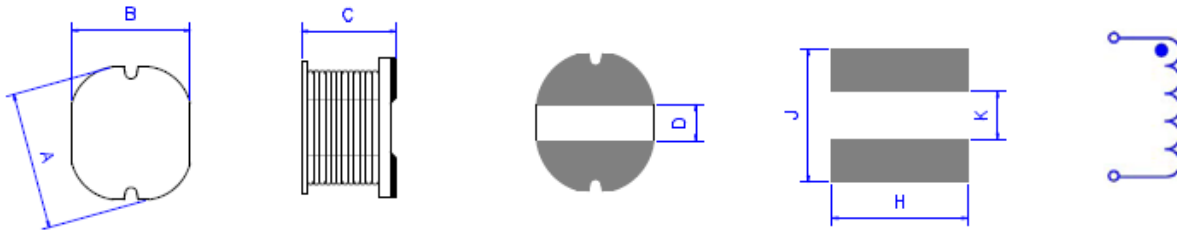
- DC power supply circuit
- Operating temperature range of -25°C to +85°C
- Storage temperature range of -40°C to +125°C
- Resistance to solder heat : 250°C 10secs
- Low DC resistance, High current capacity and high impedance characteristics
- Excellent solder heat resistance, Both flow and reflow soldering 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.)
SD0504	5.8 ± 0.3	5.2 ± 0.3	4.5 ± 0.3	1.3	5.5	6.0	1.7

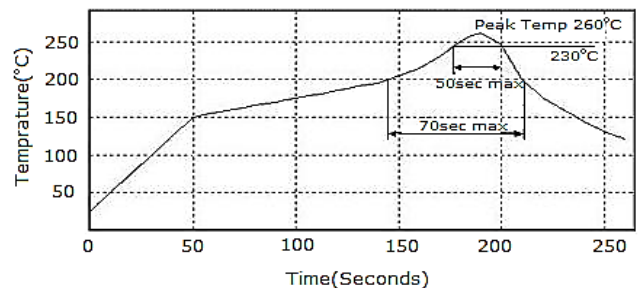
Part Number Code :

SD 0504 -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.)
SD0504-R33	0.3	N	100KHz 0.25V	0.006	5.60
SD0504-R47	0.47	N	100KHz 0.25V	0.006	5.60
SD0504-R50	0.50	N	100KHz 0.25V	0.008	5.50
SD0504-1R0	1.0	M	100KHz 0.25V	0.010	5.00
SD0504-1R2	1.2	M	100KHz 0.25V	0.012	4.77
SD0504-1R4	1.4	M	100KHz 0.25V	0.013	4.50
SD0504-1R5	1.5	M	100KHz 0.25V	0.013	4.50
SD0504-1R6	1.6	M	100KHz 0.25V	0.015	4.30
SD0504-1R8	1.8	M	100KHz 0.25V	0.016	4.25
SD0504-2R0	2.0	M	7.96KHz 0.25V	0.035	3.50
SD0504-2R2	2.2	M	100KHz 0.25V	0.017	4.20
SD0504-2R6	2.6	M	100KHz 0.25V	0.022	4.20
SD0504-2R7	2.7	M	100KHz 0.25V	0.025	4.00
SD0504-3R3	3.3	M / K	100KHz 0.25V	0.034	2.50
SD0504-3R9	3.9	M	100KHz 0.25V	0.035	2.20
SD0504-4R7	4.7	M / K	100KHz 0.25V	0.035	2.00
SD0504-4R8	4.8	M	100KHz 0.25V	0.038	1.98
SD0504-5R0	5.0	M	100KHz 0.25V	0.040	1.87
SD0504-5R6	5.6	M	100KHz 0.25V	0.042	1.82
SD0504-6R8	6.8	M	100KHz 0.25V	0.060	1.69
SD0504-7R5	7.5	M	100KHz 0.25V	0.060	1.65
SD0504-8R2	8.2	M	100KHz 0.25V	0.060	1.56
SD0504-100	10.0	M / K	1.0KHz 0.25V	0.10	1.44
SD0504-120	12.0	M / K	1.0KHz 0.25V	0.120	1.40
SD0504-150	15.0	M / K	1.0KHz 0.25V	0.140	1.30
SD0504-180	18.0	M / K	1.0KHz 0.25V	0.150	1.23
SD0504-220	22.0	M / K	1.0KHz 0.25V	0.180	1.11
SD0504-270	27.0	M / K	1.0KHz 0.25V	0.200	0.97
SD0504-330	33.00	M / K	1.0KHz 0.25V	0.230	0.88
SD0504-390	39.00	M / K	1.0KHz 0.25V	0.320	0.80
SD0504-430	43.00		1.0KHz 0.25V	0.350	0.75
SD0504-470	47.00	M / K	1.0KHz 0.25V	0.370	0.72
SD0504-560	56.00	M / K	1.0KHz 0.25V	0.420	0.68
SD0504-580	58.00	K	1.0KHz 0.25V	0.450	0.65
SD0504-650	65.00	M / K	1.0KHz 0.25V	0.440	0.63
SD0504-680	68.00	M / K	1.0KHz 0.25V	0.460	0.61
SD0504-820	82.00	M / K	1.0KHz 0.25V	0.600	0.58
SD0504-101	100.00	M / K	1.0KHz 0.25V	0.700	0.52
SD0504-121	120.00	M / K	1.0KHz 0.25V	0.930	0.48
SD0504-151	150.00	M / K	1.0KHz 0.25V	1.100	0.40
SD0504-181	180.00	M / K	1.0KHz 0.25V	1.380	0.38

Part No.	L (uH)	Tolerance	Test Freq.	DCR(Ω) (max.)	IDC (A) (max.)
SD0504-201	200.00	M / K	1.0KHz 0.25V	1.430	0.36
SD0504-221	220.00	M / K	1.0KHz 0.25V	1.570	0.35
SD0504-271	270.00	M / K	1.0KHz 0.25V	1.600	0.34
SD0504-331	330.0	M / K	1.0KHz 0.25V	1.820	0.32
SD0504-471	470.0	M / K	1.0KHz 0.25V	2.760	0.30
SD0504-561	560.0	M / K	1.0KHz 0.25V	3.100	0.29
SD0504-681	680.0	M / K	1.0KHz 0.25V	4.050	0.28
SD0504-781	780.0	M	1.0KHz 0.25V	4.800	0.26
SD0504-821	820.0	M / K	1.0KHz 0.25V	5.560	0.27
SD0504-102	1000.0	M / K	1.0KHz 0.25V	5.740	0.26
SD0504-122	1200.0	M	100KHz 0.25V	7.700	0.16
SD0504-152	1500.0	M	100KHz 0.25V	9.500	0.18
SD0504-222	2200.0	M / K	1.0KHz 0.25V	15.870	0.14
SD0504-252	2500.0	M	1.0KHz 0.25V	16.000	0.12
SD0504-302	3000.0	M / K	1.0KHz 0.25V	18.000	0.08
SD0504-502	5000.0	M	100KHz 0.25V	35.000	0.07
SD0504-123	12000.0	M / K	1.0KHz 0.25V	106.000	0.04

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%