

SD3512 Series

Features :

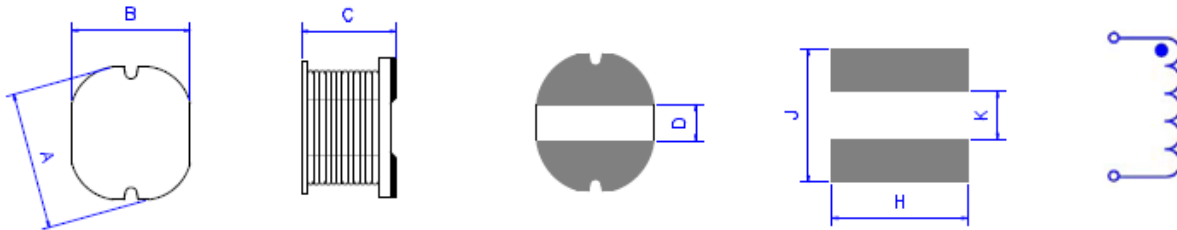
- DC power supply circuit
- Operating temperature range of -25°C to +85°C
- Storage temperature range of -40°C to +125°C
- Resistance to solder heat : 250°C 10secs
- Low DC resistance, High current capacity and high impedance characteristics
- Excellent solder heat resistance, Both flow and reflow soldering 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.)
SD3512	3.5 ± 0.3	3.0 ± 0.3	1.4	1.2	3.5	4.0	0.8

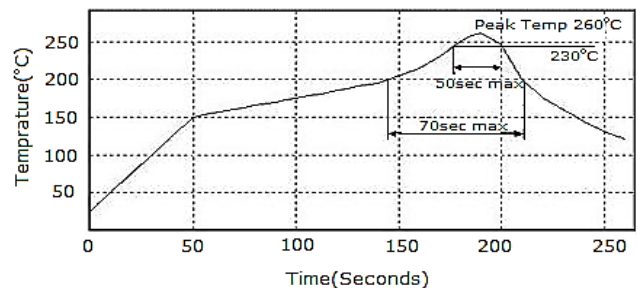
Part Number Code :

SD 3512 -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.)
SD3512-1R0	1.0	M	100KHz 0.25V	0.060	1.40
SD3512-1R4	1.4	M	100KHz 0.25V	0.069	1.40
SD3512-1R5	1.5	M	100KHz 0.25V	0.081	1.30
SD3512-1R8	1.8	M	100KHz 0.25V	0.098	1.24
SD3512-2R2	2.2	M	100KHz 0.25V	0.110	1.05
SD3512-2R7	2.7	M	100KHz 0.25V	0.135	1.04
SD3512-3R3	3.3	M	100KHz 0.25V	0.150	0.80
SD3512-3R9	3.9	M	100KHz 0.25V	0.188	0.79
SD3512-4R7	4.7	M	100KHz 0.25V	0.300	0.90
SD3512-5R6	5.6	M	100KHz 0.25V	0.250	0.65
SD3512-6R4	6.4	M	100KHz 0.25V	0.280	0.58
SD3512-6R8	6.8	M	100KHz 0.25V	0.300	0.56
SD3512-8R2	8.2	M	100KHz 0.25V	0.380	0.50
SD3512-100	10	M / K	1.0KHz 0.25V	0.440	0.45
SD3512-120	12	M / K	1.0KHz 0.25V	0.500	0.43
SD3512-150	15	M / K	1.0KHz 0.25V	0.610	0.39
SD3512-180	18	M / K	1.0KHz 0.25V	0.730	0.32
SD3512-220	22	M / K	1.0KHz 0.25V	0.910	0.28
SD3512-270	27	M / K	1.0KHz 0.25V	1.150	0.26
SD3512-330	33	M / K	1.0KHz 0.25V	1.390	0.25
SD3512-390	39	M / K	1.0KHz 0.25V	1.880	0.23
SD3512-470	47	M / K	1.0KHz 0.25V	2.260	0.21
SD3512-560	56	M / K	1.0KHz 0.25V	2.690	0.20
SD3512-680	68	M / K	1.0KHz 0.25V	3.180	0.18
SD3512-820	82	M / K	1.0KHz 0.25V	4.030	0.16
SD3512-101	100	M / K	1.0KHz 0.25V	4.940	0.14
SD3512-121	120	M / K	1.0KHz 0.25V	5.350	0.12
SD3512-331	330	M	100KHz 0.25V	22.00	0.11

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