

SD3516 Series

Features :

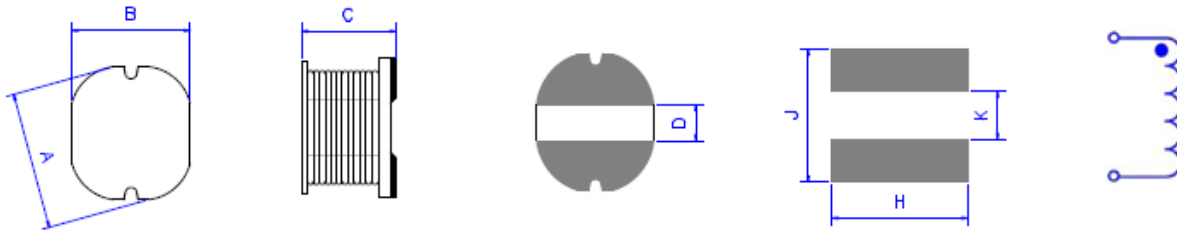
- DC power supply circuit
- Operating temperature range of -25°C to +85°C
- Storage temperature range of -40°C to +125°C
- Resistance to solder heat : 250°C 10secs
- Low DC resistance, High current capacity and high impedance characteristics
- Excellent solder heat resistance, Both flow and reflow soldering 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.)
SD3516	3.5 ± 0.3	3.0 ± 0.3	1.6 ± 0.3	1.2	3.5	4.0	0.8

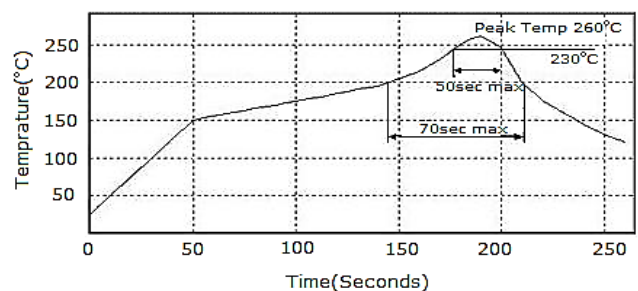
Part Number Code :

SD 3516 -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.)
SD3516-R10	0.10	N	100KHz 0.25V	0.045	2.500
SD3516-1R0	1.00	M	100KHz 0.25V	0.048	1.600
SD3516-1R2	1.20	M	100KHz 0.25V	0.055	1.580
SD3516-1R5	1.50	M	100KHz 0.25V	0.060	1.550
SD3516-1R8	1.80	M	100KHz 0.25V	0.068	1.500
SD3516-2R2	2.20	M	100KHz 0.25V	0.078	1.470
SD3516-3R3	3.30	M	100KHz 0.25V	0.126	1.340
SD3516-3R9	3.90	M	100KHz 0.25V	0.140	1.240
SD3516-4R7	4.70	M	100KHz 0.25V	0.158	1.220
SD3516-5R6	5.60	M	100KHz 0.25V	0.186	1.090
SD3516-6R8	6.80	M	100KHz 0.25V	0.213	0.960
SD3516-8R2	8.20	M	100KHz 0.25V	0.238	0.840
SD3516-100	10.0	M / K	1.0KHz 0.25V	0.307	0.700
SD3516-120	12.0	M / K	1.0KHz 0.25V	0.372	0.650
SD3516-150	15.0	M / K	1.0KHz 0.25V	0.466	0.590
SD3516-180	18.0	M / K	1.0KHz 0.25V	0.515	0.540
SD3516-220	22.0	M / K	1.0KHz 0.25V	0.656	0.480
SD3516-270	27.0	M / K	1.0KHz 0.25V	0.778	0.430
SD3516-330	33.0	M / K	1.0KHz 0.25V	1.021	0.370
SD3516-390	39.0	M / K	1.0KHz 0.25V	1.122	0.320
SD3516-470	47.0	M / K	1.0KHz 0.25V	1.509	0.260
SD3516-560	56.0	M / K	1.0KHz 0.25V	1.675	0.240
SD3516-680	68	M / K	1.0KHz 0.25V	1.919	0.230
SD3516-820	82	M / K	1.0KHz 0.25V	2.644	0.210
SD3516-101	100	M / K	1.0KHz 0.25V	2.870	0.190
SD3516-121	120	M / K	1.0KHz 0.25V	4.084	0.170
SD3516-151	150	M / K	1.0KHz 0.25V	4.774	0.160
SD3516-181	180	M / K	1.0KHz 0.25V	5.699	0.140
SD3516-221	220	M / K	1.0KHz 0.25V	9.000	0.120
SD3516-271	270	M / K	1.0KHz 0.25V	9.500	0.110
SD3516-331	330	M / K	1.0KHz 0.25V	9.700	0.109
SD3516-391	390	M / K	1.0KHz 0.25V	12.000	0.098
SD3516-471	470	M / K	1.0KHz 0.25V	14.000	0.090
SD3516-561	560	M / K	1.0KHz 0.25V	18.260	0.081
SD3516-681	680	M / K	1.0KHz 0.25V	20.000	0.074
SD3516-821	820	M / K	1.0KHz 0.25V	30.000	0.071
SD3516-102	1000	M / K	1.0KHz 0.25V	34.000	0.066
SD3516-122	1200	M / K	1.0KHz 0.25V	35.000	0.061
SD3516-152	1500	M / K	1.0KHz 0.25V	74.900	0.060
SD3516-182	1800	M / K	1.0KHz 0.25V	84.110	0.050
SD3516-222	2200	M / K	1.0KHz 0.25V	97.370	0.050
SD3516-252	2500	M / K	1.0KHz 0.25V	81.000	0.042
SD3516-272	2700	M / K	1.0KHz 0.25V	93.000	0.038
SD3516-332	3300	M / K	1.0KHz 0.25V	113.000	0.036

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

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

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