

### SD0502 Series

#### Features :

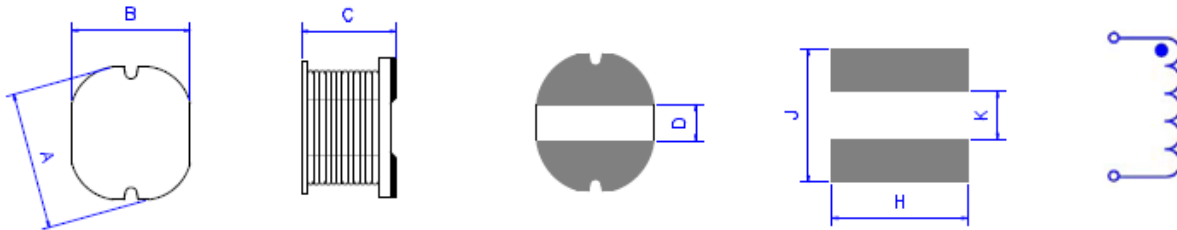
- DC power supply circuit
- Operating temperature range of -25°C to +85°C
- Storage temperature range of -40°C to +125°C
- Resistance to solder heat : 250°C 10secs
- Low DC resistance, High current capacity and high impedance characteristics
- Excellent solder heat resistance, Both flow and reflow soldering 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.)
SD0502	5.8 ± 0.3	5.2 ± 0.3	2.5 ± 0.3	2.0	5.5	6.0	1.7

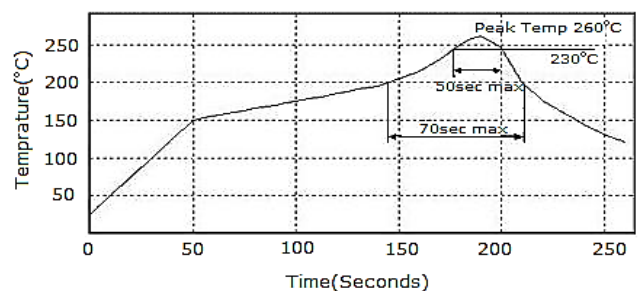
#### Part Number Code :

SD 0502 -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.)
SD0502-R82	0.82	M	100KHz 0.25V	0.012	5.500
SD0502-1R0	1.00	M	100KHz 0.25V	0.021	4.000
SD0502-1R2	1.20	M	100KHz 0.25V	0.040	4.200
SD0502-1R4	1.40	M	100KHz 0.25V	0.030	3.750
SD0502-1R5	1.50	M	100KHz 0.25V	0.030	3.750
SD0502-1R8	1.80	M	100KHz 0.25V	0.060	3.600
SD0502-2R2	2.20	M	100KHz 0.25V	0.032	3.000
SD0502-2R7	2.70	M	100KHz 0.25V	0.036	3.000
SD0502-3R3	3.30	M	100KHz 0.25V	0.050	2.000
SD0502-3R9	3.90	M	100KHz 0.25V	0.052	1.970
SD0502-4R7	4.70	M / K	100KHz 0.25V	0.057	1.800
SD0502-5R6	5.60	M	100KHz 0.25V	0.085	1.460
SD0502-6R2	6.20	M	100KHz 0.25V	0.100	2.300
SD0502-6R8	6.80	M	100KHz 0.25V	0.112	1.350
SD0502-8R2	8.20	M	100KHz 0.25V	0.125	1.250
SD0502-100	10.00	M / K	100KHz 0.25V	0.140	1.150
SD0502-120	12.00	M / K	1.0KHz 0.25V	0.200	1.120
SD0502-150	15.00	M / K	1.0KHz 0.25V	0.230	1.040
SD0502-180	18.00	M / K	1.0KHz 0.25V	0.250	0.980
SD0502-220	22.00	M / K	1.0KHz 0.25V	0.300	0.890
SD0502-270	27.00	M / K	1.0KHz 0.25V	0.400	0.780
SD0502-330	33.00	M / K	1.0KHz 0.25V	0.480	0.700
SD0502-390	39.00	M / K	1.0KHz 0.25V	0.520	0.680
SD0502-470	47.00	M / K	1.0KHz 0.25V	0.560	0.580
SD0502-560	56.00	M / K	1.0KHz 0.25V	0.760	0.540
SD0502-680	68.00	M / K	1.0KHz 0.25V	0.930	0.490
SD0502-820	82.00	M / K	1.0KHz 0.25V	1.200	0.460
SD0502-101	100.00	M / K	1.0KHz 0.25V	1.340	0.420
SD0502-121	120.00	M / K	1.0KHz 0.25V	1.970	0.410
SD0502-151	150.00	M / K	1.0KHz 0.25V	1.900	0.320
SD0502-181	180.00	M / K	1.0KHz 0.25V	2.090	0.310
SD0502-201	200.00	M / K	1.0KHz 0.25V	2.610	0.300
SD0502-221	220.00	M / K	1.0KHz 0.25V	3.260	0.280
SD0502-271	270.00	M / K	1.0KHz 0.25V	3.940	0.270
SD0502-331	330.00	M / K	1.0KHz 0.25V	4.200	0.260
SD0502-471	270.00	M / K	1.0KHz 0.25V	6.700	0.150
SD0502-561	560.00	M	1.0KHz 1.00V	8.000	0.210
SD0502-681	680.00	M / K	1.0KHz 0.25V	11.40	0.150
SD0502-102	1000.00	M / K	1.0KHz 0.25V	15.00	0.140
SD0502-103	10000.00	M / K	1.0KHz 0.25V	102.00	0.052

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

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

IDC : ΔL/L(0A) ≤ 10%