

SD3521 Series

Features :

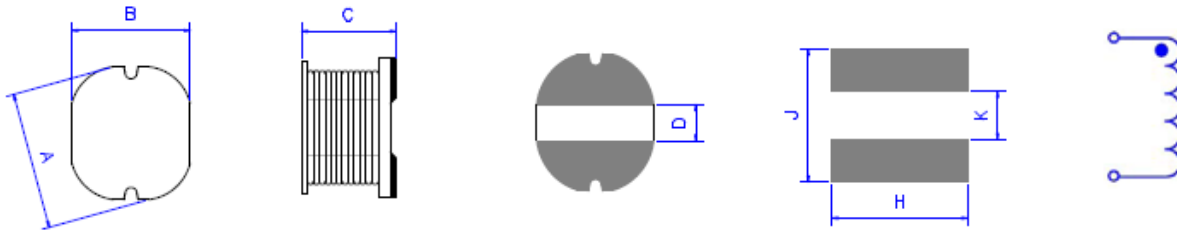
- DC power supply circuit
- Operating temperature range of -25°C to +85°C
- Storage temperature range of -40°C to +125°C
- Resistance to solder heat : 250°C 10secs
- Low DC resistance, High current capacity and high impedance characteristics
- Excellent solder heat resistance, Both flow and reflow soldering 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.)
SD3521	3.5 ± 0.3	3.0 ± 0.3	2.0 ± 0.3	1.2	3.5	4.0	0.8

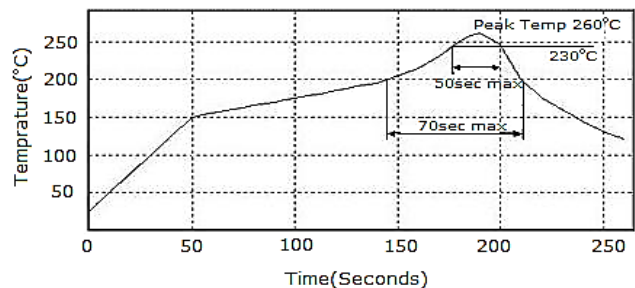
Part Number Code :

SD 3521 -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



Part No.	L (uH)	Tolerance	Test Freq.	DCR(Ω) (max.)	IDC (A) (max.)
SD3521-R10	0.10	M	100KHz 0.25V	0.018	4.350
SD3521-R39	0.39	M	100KHz 0.25V	0.018	4.300
SD3521-R47	0.47	M	100KHz 0.25V	0.019	4.250
SD3521-R50	0.50	M	100KHz 0.25V	0.020	4.200
SD3521-R68	0.68	M	100KHz 0.25V	0.023	3.850
SD3521-R82	0.82	M	100KHz 0.25V	0.025	3.470
SD3521-1R0	1.0	M	100KHz 0.25V	0.035	3.340
SD3521-1R2	1.2	N / M	100KHz 0.25V	0.038	3.050
SD3521-1R4	1.4	M	100KHz 0.25V	0.045	3.010
SD3521-1R5	1.5	M	100KHz 0.25V	0.052	2.870
SD3521-1R8	1.8	M	100KHz 0.25V	0.054	2.680
SD3521-2R2	2.2	M	100KHz 0.25V	0.059	2.350
SD3521-2R7	2.7	M / K	100KHz 0.25V	0.077	2.010
SD3521-3R3	3.3	M	100KHz 0.25V	0.098	1.830
SD3521-3R9	3.9	M	100KHz 0.25V	0.117	1.640
SD3521-4R7	4.7	M / K	100KHz 0.25V	0.137	1.500
SD3521-5R0	5.0	M	100KHz 0.25V	0.137	1.500
SD3521-5R6	5.6	M	100KHz 0.25V	0.157	1.360
SD3521-6R8	6.8	M / K	100KHz 0.25V	0.196	1.220
SD3521-8R2	8.2	M	100KHz 0.25V	0.230	1.090
SD3521-100	10.0	M / K	1.0KHz 0.25V	0.286	0.950
SD3521-120	12.0	M / K	1.0KHz 0.25V	0.322	0.880
SD3521-150	15.0	M / K	1.0KHz 0.25V	0.398	0.820
SD3521-160	16.0	M / K	1.0KHz 0.25V	0.539	0.770
SD3521-180	18.0	M / K	1.0KHz 0.25V	0.520	0.760
SD3521-220	22.0	M / K	1.0KHz 0.25V	0.660	0.630
SD3521-270	27.0	M / K	1.0KHz 0.25V	0.760	0.620
SD3521-330	33.0	M / K	1.0KHz 0.25V	0.870	0.560
SD3521-390	39.0	M / K	1.0KHz 0.25V	1.100	0.510
SD3521-470	47.0	M / K	1.0KHz 0.25V	1.250	0.470
SD3521-560	56.0	M / K	1.0KHz 0.25V	1.590	0.420
SD3521-680	68.0	M / K	1.0KHz 0.25V	1.820	0.380
SD3521-820	82.0	M / K	1.0KHz 0.25V	2.440	0.340
SD3521-101	100.0	M / K	1.0KHz 0.25V	2.840	0.310
SD3521-121	120.0	M / K	1.0KHz 0.25V	3.190	0.280
SD3521-151	150.0	M / K	1.0KHz 0.25V	4.470	0.250
SD3521-181	180.0	M / K	1.0KHz 0.25V	5.110	0.230
SD3521-201	200.0	M	100KHz 0.25V	6.000	0.220

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Part No.	L (uH)	Tolerance	Test Freq.	DCR(Ω) (max.)	IDC (A) (max.)
SD3521-221	220.0	M / K	1.0KHz 0.25V	7.310	0.210
SD3521-271	270.0	M / K	1.0KHz 0.25V	8.240	0.190
SD3521-301	300.0	M / K	1.0KHz 0.25V	9.000	0.180
SD3521-331	330.0	M / K	1.0KHz 0.25V	10.190	0.170
SD3521-391	390.0	M / K	1.0KHz 0.25V	13.500	0.150
SD3521-471	470.0	M / K	1.0KHz 0.25V	16.350	0.140
SD3521-561	560.0	M / K	1.0KHz 0.25V	18.340	0.120
SD3521-681	680.0	M / K	1.0KHz 0.25V	24.800	0.110
SD3521-821	820.0	M / K	1.0KHz 0.25V	32.790	0.100
SD3521-102	1000.0	M / K	1.0KHz 0.25V	37.910	0.090
SD3521-152	1500.0	M / K	1.0KHz 0.25V	54.000	0.066
SD3521-222	2200.0	M / K	1.0KHz 0.25V	85.570	0.065

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