

SD0705 Series

Features :

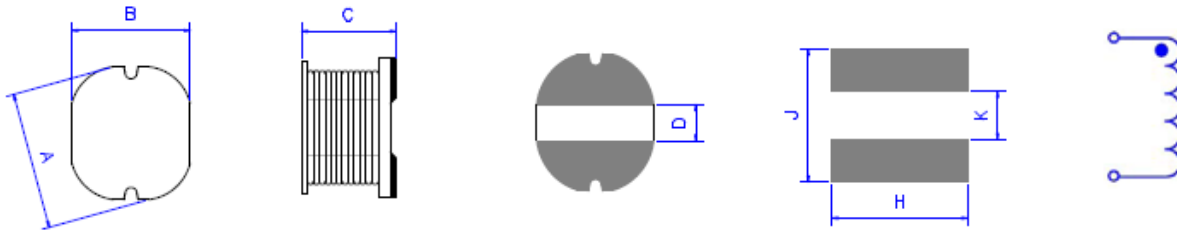
- DC power supply circuit
- Operating temperature range of -25°C to +85°C
- Storage temperature range of -40°C to +125°C
- Resistance to solder heat : 250°C 10secs
- Low DC resistance, High current capacity and high impedance characteristics
- Excellent solder heat resistance, Both flow and reflow soldering 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.)
SD0705	7.8 ± 0.3	7.0 ± 0.3	5.0 ± 0.5	2.6	7.5	8.0	2.0

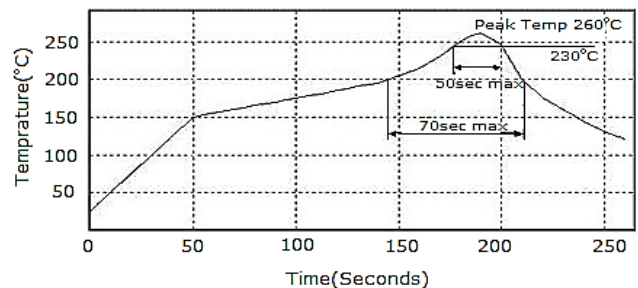
Part Number Code :

SD 0705 -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



SD0705 Series

Part No.	L (uH)	Tolerance	Test Freq.	DCR(Ω) (max.)	IDC (A) (max.)
SD0705-R47	0.47	N	100KHz 0.25V	0.008	8.000
SD0705-1R0	1.00	M	100KHz 0.25V	0.013	3.400
SD0705-1R2	1.20	M	100KHz 0.25V	0.017	3.400
SD0705-1R5	1.50	M	100KHz 0.25V	0.016	3.300
SD0705-1R8	1.80	M	100KHz 0.25V	0.020	3.200
SD0705-2R2	2.20	M	100KHz 0.25V	0.023	3.000
SD0705-2R5	2.50	M	100KHz 0.25V	0.026	2.900
SD0705-2R7	2.70	M	100KHz 0.25V	0.027	2.850
SD0705-3R3	3.30	M	100KHz 0.25V	0.028	2.800
SD0705-3R9	3.90	M	100KHz 0.25V	0.030	3.000
SD0705-4R7	4.70	M / K	100KHz 0.25V	0.045	2.700
SD0705-5R6	5.60	M	100KHz 0.25V	0.048	2.650
SD0705-6R8	6.80	M / K	100KHz 0.25V	0.058	2.600
SD0705-7R5	7.50	N / M	100KHz 0.25V	0.060	2.550
SD0705-8R2	8.20	M	100KHz 0.25V	0.070	2.400
SD0705-100	10.00	M / K	1.0KHz 0.25V	0.070	2.300
SD0705-120	12.00	M / K	1.0KHz 0.25V	0.080	2.000
SD0705-150	15.00	M / K	1.0KHz 0.25V	0.090	1.800
SD0705-180	18.00	M / K	1.0KHz 0.25V	0.100	1.600
SD0705-220	22.00	M / K	1.0KHz 0.25V	0.110	1.500
SD0705-250	25.00	M	1.0KHz 0.25V	0.120	1.400
SD0705-270	27.00	M / K	1.0KHz 0.25V	0.120	1.300
SD0705-330	33.00	M / K	1.0KHz 0.25V	0.130	1.200
SD0705-390	39.00	M / K	1.0KHz 0.25V	0.160	1.100
SD0705-470	47.00	M / K	1.0KHz 0.25V	0.230	0.950
SD0705-560	56.00	M / K	1.0KHz 0.25V	0.240	0.940
SD0705-680	68.00	M / K	1.0KHz 0.25V	0.280	0.850
SD0705-800	80.00	M / K	1.0KHz 0.25V	0.350	0.780
SD0705-820	82.00	M / K	1.0KHz 0.25V	0.370	0.780
SD0705-101	100.00	M / K	1.0KHz 0.25V	0.430	0.720
SD0705-121	120.00	M / K	1.0KHz 0.25V	0.470	0.660
SD0705-131	130.00	M	1.0KHz 0.25V	0.560	0.600
SD0705-151	150.00	M / K	1.0KHz 0.25V	0.640	0.580
SD0705-181	180.00	M / K	1.0KHz 0.25V	0.710	0.510
SD0705-221	220.00	M / K	1.0KHz 0.25V	0.960	0.490
SD0705-261	260.00	M / K	1.0KHz 0.25V	1.000	0.450
SD0705-271	270.00	M / K	1.0KHz 0.25V	1.110	0.420
SD0705-331	330.00	M / K	1.0KHz 0.25V	1.260	0.400
SD0705-391	390.00	M / K	1.0KHz 0.25V	1.770	0.360

Part No.	L (uH)	Tolerance	Test Freq.	DCR(Ω) (max.)	IDC (A) (max.)
SD0705-411	410.00	M / K	1.0KHz 0.25V	1.850	0.350
SD0705-471	470.00	M / K	1.0KHz 0.25V	1.960	0.340
SD0705-511	510.00	M / K	1.0KHz 0.25V	2.100	0.330
SD0705-561	560.00	M / K	1.0KHz 0.25V	2.280	0.320
SD0705-681	680.00	M / K	1.0KHz 0.25V	2.480	0.300
SD0705-821	820.00	M / K	1.0KHz 0.25V	3.400	0.300
SD0705-102	1000.00	M / K	1.0KHz 0.25V	4.200	0.300
SD0705-122	1200.00	M / K	1.0KHz 0.25V	5.000	0.170
SD0705-152	1500.00	M / K	1.0KHz 0.25V	5.520	0.160
SD0705-182	1800.00	M / K	1.0KHz 0.25V	6.050	0.150
SD0705-202	2000.00	M / K	1.0KHz 0.25V	7.280	0.140
SD0705-222	2200.00	M	100KHz 0.25V	7.800	0.120
SD0705-252	2500.00	M / K	1.0KHz 0.25V	9.680	0.110
SD0705-302	3000.00	M / K	1.0KHz 0.25V	10.000	0.120
SD0705-472	4700.00	M	1.0KHz 0.25V	18.500	0.110
SD0705-532	5300.00	M / K	1.0KHz 0.25V	24.000	0.080
SD0705-562	5600.00	M	1.0KHz 0.25V	20.500	0.090
SD0705-602	6000.00	M / K	1.0KHz 0.25V	18.000	0.090
SD0705-682	6800.00	M	1.0KHz 0.25V	26.500	0.080
SD0705-802	8000.00	M	1.0KHz 0.25V	27.000	0.070
SD0705-882	8800.00	M / K	1.0KHz 0.25V	28.000	0.040
SD0705-902	9000.00	M	1.0KHz 0.25V	36.000	0.030
SD0705-103	10000.00	M	1.0KHz 0.25V	40.000	0.100
SD0705-123	12000.00	M	1.0KHz 0.25V	45.000	0.070

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