

### SDS1005 Series

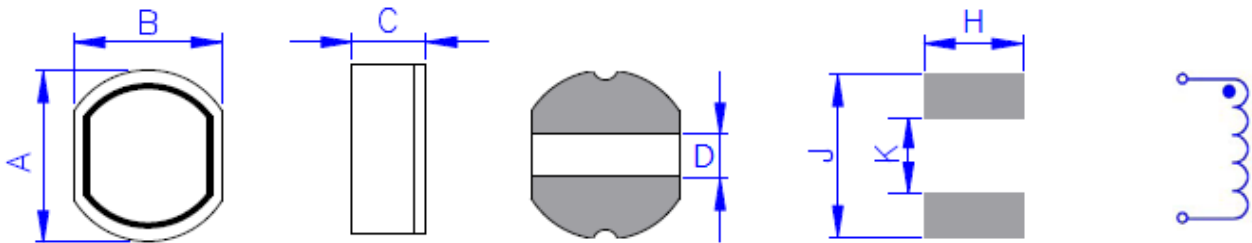
#### Features :

- 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.)
SDS1005	10 ± 0.4	9 ± 0.3	5 ± 0.5	2.1	9.7	10.7	1.7

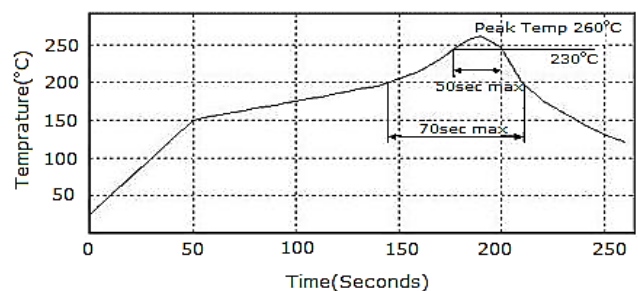
#### Part Number Code :

SDS 1005 -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( $\Omega$ ) (max.)	IDC (A) (max.)
SDS1005-4R7	4.70	M	100KHz 0.25V	0.013	2.500
SDS1005-100	10.00	M	100KHz 0.25V	0.060	2.060
SDS1005-120	12.00	M	100KHz 0.25V	0.070	1.940
SDS1005-150	15.00	M	1.0KHz 0.25V	0.070	1.720
SDS1005-180	18.00	M	100KHz 0.25V	0.080	1.580
SDS1005-210	21.00	M	1.0KHz 0.25V	0.080	1.440
SDS1005-220	22.00	M	1.0KHz 0.25V	0.080	1.420
SDS1005-270	27.00	M	1.0KHz 0.25V	0.100	1.320
SDS1005-330	33.00	M	100KHz 0.25V	0.110	1.160
SDS1005-390	39.00	M	100KHz 0.25V	0.120	1.100
SDS1005-470	47.00	M	1.0KHz 0.25V	0.140	1.000
SDS1005-560	56.00	M	1.0KHz 0.25V	0.190	0.930
SDS1005-680	68.00	M	1.0KHz 0.25V	0.210	0.850
SDS1005-820	82.00	M	1.0KHz 0.25V	0.280	0.790
SDS1005-101	100.00	M / K	1.0KHz 0.25V	0.340	0.720
SDS1005-121	120.00	M / K	1.0KHz 0.25V	0.370	0.630
SDS1005-151	150.00	M / K	1.0KHz 0.25V	0.510	0.550
SDS1005-181	180.00	M / K	1.0KHz 0.25V	0.570	0.500
SDS1005-221	220.00	M / K	1.0KHz 0.25V	0.780	0.470
SDS1005-271	270.00	M / K	1.0KHz 0.25V	0.870	0.410
SDS1005-331	330.00	M / K	1.0KHz 0.25V	1.200	0.370
SDS1005-391	390.00	M / K	1.0KHz 0.25V	1.340	0.350
SDS1005-471	470.00	M / K	1.0KHz 0.25V	1.500	0.330
SDS1005-561	560.00	M	1.0KHz 0.25V	1.600	0.300

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