



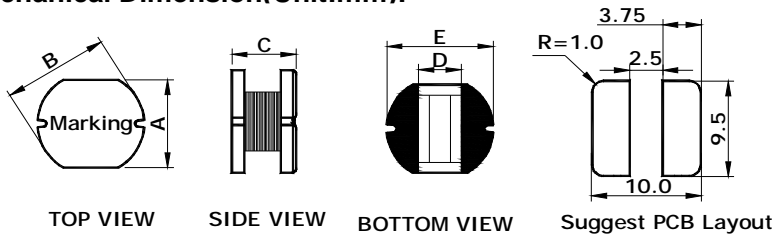
# SD105 Series



## 1. Features:

- Ferrite based SMD Inductor with lower core loss.
- Inductance Range:0.6uH to 820.0uH;Custom values are welcomed.
- High current output chokes, up to 19.8 Amps with max.10% roll off.
- Low profile 5.9mm Max.height
- Foot print 9.4 x 10.4mm Max.
- Ideal for LCD driver,DSC/DVC,Notebook PC or High density board design.
- Operating Temperature Range -55°C to + 130°C;RoHs&HF compliance.
- T & R Qtys: 500 pcs , 13" Reel ;

## 2. Mechanical Dimension(Unit:mm):



Type	SD105
A	9.0 ± 0.4
B	10.0 ± 0.4
C	5.4 ± 0.5
D	3.5 (ref.)
E	10.2 ± 0.5

## 3. Electrical Characteristic of SD105 Series:

Part Number	OCL (uH)	DCR (mΩ) Max.	Isat (A) @25°C	Irms (A) @25°C
SD105-R60HF	0.6 +40% -20%	5.0	19.80	14.94
SD105-1R0HF	1.0 +40% -21%	8.0	15.30	12.70
SD105-1R5MHF	1.5 ± 20%	12.0	13.32	11.05
SD105-2R2MHF	2.2 ± 20%	14.0	11.25	9.34
SD105-3R3MHF	3.3 ± 20%	17.0	9.45	7.85
SD105-4R7MHF	4.7 ± 20%	20.0	8.55	7.10
SD105-5R6MHF	5.6 ± 20%	22.0	7.74	6.43
SD105-6R8MHF	6.8 ± 20%	27.0	7.11	5.90
SD105-8R2MHF	8.2 ± 20%	40.0	6.39	4.68
SD105-100MHF	10.0 ± 20%	60.0	3.15	3.31
SD105-120MHF	12.0 ± 20%	70.0	2.88	3.02
SD105-150LHF	15.0 ± 15%	80.0	2.61	2.74
SD105-180LHF	18.0 ± 15%	90.0	2.25	2.36
SD105-220LHF	22.0 ± 15%	100.0	2.16	2.27
SD105-270LHF	27.0 ± 15%	110.0	2.07	2.17
SD105-330KHF	33.0 ± 10%	120.0	1.89	1.98
SD105-390KHF	39.0 ± 10%	140.0	1.71	1.80
SD105-470KHF	47.0 ± 10%	170.0	1.53	1.61
SD105-560KHF	56.0 ± 10%	190.0	1.44	1.51
SD105-680KHF	68.0 ± 10%	220.0	1.26	1.32
SD105-820KHF	82.0 ± 10%	250.0	1.17	1.23
SD105-101KHF	100.0 ± 10%	350.0	1.08	1.13
SD105-121KHF	120.0 ± 10%	400.0	0.99	1.04
SD105-151KHF	150.0 ± 10%	470.0	0.81	0.85
SD105-181KHF	180.0 ± 10%	630.0	0.72	0.76
SD105-221KHF	220.0 ± 10%	730.0	0.64	0.67
SD105-271KHF	270.0 ± 10%	970.0	0.60	0.62
SD105-331KHF	330.0 ± 10%	1150.0	0.55	0.58
SD105-391KHF	390.0 ± 10%	1300.0	0.51	0.54
SD105-471KHF	470.0 ± 10%	1480.0	0.47	0.49
SD105-561KHF	560.0 ± 10%	1900.0	0.41	0.43
SD105-681KHF	680.0 ± 10%	2250.0	0.38	0.40
SD105-821KHF	820.0 ± 10%	2550.0	0.34	0.36

### Note:

- 1.OCL (Open Circuit Inductance) and L@ Irms and L @Isat and DCR are measured at: 100KHz,0.25V @ 25°C.
- 2.Isat: DC current that causes inductance to drop by approximately 10% from OCL ;(Ta=25°C)
- 3.Irms: DC current that causes an approximate temperature rise (ΔT) of 40°C;(Ta=25°C)

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