



SD105 Series



1. Features of SD105 Series :

- SMD Power Inductor.
- Inductance Range: 0.6uH to 820.0uH, custom values are welcomed.
- Low Profile 5.9mm max. height.
- Perfect for high density designs with limited board space.
- Operating Temperature Range of -25°C up to + 130°C.
- RoHS and HF compliant.
- T & R Qty: 500 pcs, Reel.



2. Electrical Characteristics of SD105 Series:

ITG Part Number	Inductance* (uH)	DCR Max. (Ω)	Isat (A)	Irms (A)
SD105-R60MHF	0.6	0.005	19.80	14.94
SD105-1R0MHF	1.0	0.008	15.30	12.70
SD105-1R5MHF	1.5	0.012	13.32	11.05
SD105-2R2MHF	2.2	0.014	11.25	9.34
SD105-3R3MHF	3.3	0.017	9.45	7.85
SD105-4R7MHF	4.7	0.020	8.55	7.10
SD105-5R6MHF	5.6	0.022	7.74	6.43
SD105-6R8MHF	6.8	0.027	7.11	5.90
SD105-8R2MHF	8.2	0.040	6.39	4.68
SD105-100MHF	10.0	0.060	3.15	3.31
SD105-120MHF	12.0	0.070	2.88	3.02
SD105-150LHF	15.0	0.080	2.61	2.74
SD105-180LHF	18.0	0.090	2.25	2.36
SD105-220LHF	22.0	0.100	2.16	2.27
SD105-270LHF	27.0	0.110	2.07	2.17
SD105-330KHF	33.0	0.120	1.89	1.98
SD105-390KHF	39.0	0.140	1.71	1.80
SD105-470KHF	47.0	0.170	1.53	1.61
SD105-560KHF	56.0	0.190	1.44	1.51
SD105-680KHF	68.0	0.220	1.26	1.32
SD105-820KHF	82.0	0.250	1.17	1.23
SD105-101KHF	100.0	0.350	1.08	1.13
SD105-121KHF	120.0	0.400	0.99	1.04
SD105-151KHF	150.0	0.470	0.81	0.85
SD105-181KHF	180.0	0.630	0.72	0.76
SD105-221KHF	220.0	0.730	0.64	0.67
SD105-271KHF	270.0	0.970	0.60	0.62
SD105-331KHF	330.0	1.150	0.55	0.58
SD105-391KHF	390.0	1.300	0.51	0.54
SD105-471KHF	470.0	1.480	0.47	0.49
SD105-561KHF	560.0	1.900	0.41	0.43
SD105-681KHF	680.0	2.250	0.38	0.40
SD105-821KHF	820.0	2.550	0.34	0.36

*Notes: **M**: Inductance Tolerance = $\pm 20\%$, **L**: Inductance Tolerance = $\pm 15\%$, **K**: Inductance Tolerance = $\pm 10\%$

● New York 1 914 347 2474 ● Taipei 886 2 2698 8669 ● Kaohsiung 886 7 350 2275
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*Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.



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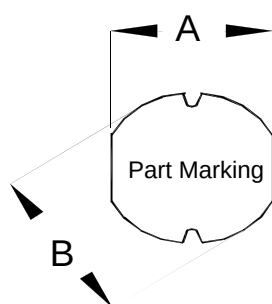
3. Mechanical Dimension of SD105 Series (Unit:mm)

A	B	C	D	E
±0.4	±0.4	±0.5	Ref.	±0.5
9.0	10.0	5.4	3.5	10.2

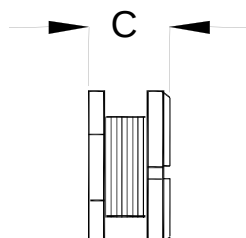
Part Marking:

Rxx: xx is inductance value in uH (R:decimal point),

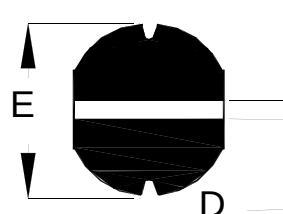
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TOP VIEW



SIDE VIEW



BOTTOM VIEW

Notes:

1. Isat: DC current that will cause inductance to drop approximately by 10%.
2. Irms: DC current rating at 40°C rise..

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