



SD104 Series



1. Features of SD104 Series :

- SMD Power Inductor.
- Inductance Range: 1.0uH to 560.0uH, custom values are welcomed.
- Low Profile 4.5mm max. height.
- Co-planarity 0.12mm max.
- 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 (1.0uH-8.2uH): 800 pcs, Reel.
- T & R Qty (10.0uH+): 1000 pcs, Reel



2. Electrical Characteristics of SD104 Series:

ITG Part Number	Inductance* (uH)	DCR Max. (Ω)	Isat (A)	Irms (A)
SD104-1R0MHF	1.0	0.007	10.00	8.50
SD104-1R5MHF	1.5	0.011	9.18	7.62
SD104-2R2MHF	2.2	0.016	7.29	6.05
SD104-2R7MHF	2.7	0.018	6.48	5.38
SD104-3R3MHF	3.3	0.020	5.85	4.86
SD104-4R7MHF	4.7	0.025	4.73	3.92
SD104-5R6MHF	5.6	0.030	4.23	3.51
SD104-6R8MHF	6.8	0.034	3.87	3.21
SD104-8R2MHF	8.2	0.045	3.51	3.06
SD104-100MHF	10.0	0.053	3.06	2.97
SD104-120MHF	12.0	0.061	2.70	2.84
SD104-150LHF	15.0	0.070	2.52	2.65
SD104-180LHF	18.0	0.081	2.25	2.36
SD104-220LHF	22.0	0.088	1.98	2.08
SD104-270LHF	27.0	0.100	1.94	2.03
SD104-330KHF	33.0	0.120	1.71	1.80
SD104-390KHF	39.0	0.151	1.53	1.61
SD104-470KHF	47.0	0.170	1.49	1.56
SD104-560KHF	56.0	0.199	1.44	1.51
SD104-680KHF	68.0	0.223	1.26	1.32
SD104-820KHF	82.0	0.252	1.17	1.23
SD104-101KHF	100.0	0.344	1.08	1.13
SD104-121KHF	120.0	0.396	0.99	1.04
SD104-151KHF	150.0	0.544	0.86	0.90
SD104-181KHF	180.0	0.621	0.81	0.85
SD104-221KHF	220.0	0.721	0.68	0.71
SD104-271KHF	270.0	0.949	0.55	0.58
SD104-331KHF	330.0	1.100	0.51	0.54
SD104-391KHF	390.0	1.245	0.47	0.49
SD104-471KHF	470.0	1.526	0.43	0.45
SD104-561KHF	560.0	1.904	0.38	0.40

*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
 ● Tokyo 81 568 85 2830 ● Shenzhen 86 755 8418 6263 ● Shanghai 86 21 5424 5141 ● Hong Kong 852 9688 9767
 ● sales@ITG-Electronics.com ● www.ITG-Electronics.com Revision D: February 8, 2016

*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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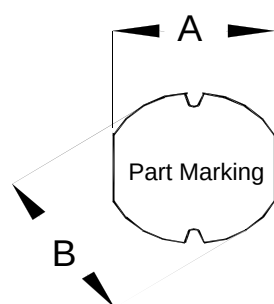
3. Mechanical Dimension of SD104 Series (Unit:mm)

A	B	C	D	E
±0.3	±0.3	±0.5	Ref.	±0.5
9.0	10.0	4.0	3.5	10.2

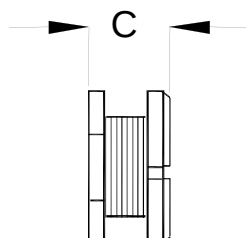
Part Marking:

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

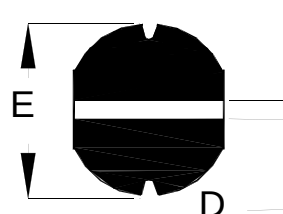
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TOP VIEW



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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