



SD43 Series SMD Power Inductor



1. Features of SD43 Series:

- Inductance Range: 1.0uH to 1000.0uH, custom values are welcomed.
- Low Profile 3.5mm max. height.
- Co-planarity of 0.10mm 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: 2000 pcs , 13" Reel.



2. Electrical Characteristics of SD43 Series:

ITG Part Number	Inductance ¹ (uH)	DCR (Ω) Max. @25°C	Isat ² (A) @25°C	Irms ³ (A) @25°C
SD43-1R0MHF	1.0 , +40%/-20%	0.0487	5.40	4.48
SD43-1R2MHF	1.2 , ± 20%	0.0520	4.77	3.96
SD43-1R5MHF	1.5 , ± 20%	0.0580	3.87	3.21
SD43-1R8MHF	1.8 , ± 20%	0.0637	3.60	2.99
SD43-2R2MHF	2.2 , ± 20%	0.0712	3.33	2.76
SD43-2R7MHF	2.7 , ± 20%	0.0787	2.97	2.47
SD43-3R3MHF	3.3 , ± 20%	0.0862	2.70	2.24
SD43-3R9MHF	3.9 , ± 20%	0.0937	2.52	2.09
SD43-4R7MHF	4.7 , ± 20%	0.1000	2.43	2.02
SD43-5R6MHF	5.6 , ± 20%	0.1257	2.12	1.76
SD43-6R8MHF	6.8 , ± 20%	0.1312	1.98	1.71
SD43-8R2MHF	8.2 , ± 20%	0.1462	1.80	1.67
SD43-100MHF	10.0 , ± 20%	0.1820	1.53	1.61
SD43-120MHF	12.0 , ± 20%	0.2100	1.35	1.42
SD43-150LHF	15.0 , ± 15%	0.2350	1.26	1.32
SD43-180LHF	18.0 , ± 15%	0.3380	1.17	1.23
SD43-220LHF	22.0 , ± 15%	0.3780	1.13	1.18
SD43-270LHF	27.0 , ± 15%	0.5220	0.99	1.04
SD43-330KHF	33.0 , ± 10%	0.5400	0.90	0.95
SD43-390KHF	39.0 , ± 10%	0.5870	0.81	0.85
SD43-470KHF	47.0 , ± 10%	0.8440	0.72	0.76
SD43-560KHF	56.0 , ± 10%	0.9370	0.68	0.71
SD43-680KHF	68.0 , ± 10%	1.1170	0.60	0.62
SD43-820KHF	82.0 , ± 10%	1.3200	0.51	0.54
SD43-101KHF	100.0 , ± 10%	1.5000	0.47	0.49
SD43-121KHF	120.0 , ± 10%	1.8000	0.43	0.45
SD43-151KHF	150.0 , ± 10%	2.0000	0.38	0.40
SD43-181KHF	180.0 , ± 10%	2.8000	0.34	0.36
SD43-201KHF	200.0 , ± 10%	3.2000	0.30	0.31
SD43-221KHF	220.0 , ± 10%	4.0000	0.27	0.29
SD43-271KHF	270.0 , ± 10%	4.5000	0.26	0.27
SD43-331KHF	330.0 , ± 10%	5.2000	0.24	0.25
SD43-471KHF	470.0 , ± 10%	7.5000	0.21	0.22
SD43-561KHF	560.0 , ± 10%	9.0000	0.20	0.21
SD43-821KHF	820.0 , ± 10%	11.0000	0.15	0.16
SD43-102KHF	1000.0 , ± 10%	18.0000	0.16	0.16

● New York 1 914 347 2474 ● Taipei 886 2 2698 8669 ● Kaohsiung 886 7 350 2275

● Japan 81 568 85 2830 ● Shenzhen 86 755 8418 6263 ● Shanghai 86 21 5424 5141 ● Hong Kong 852 9688 9767

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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.

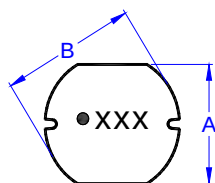


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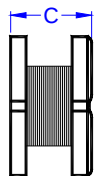


3. Mechanical Dimension of SD43 Series (Unit:mm)

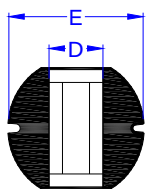
A	B	C	D	E
±0.30	±0.30	±0.30	Ref.	±0.50
4.00	4.50	3.20	1.00	4.50



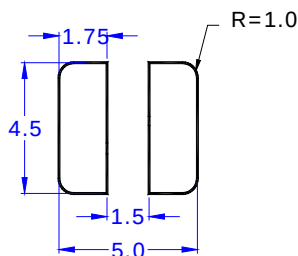
TOP VIEW



SIDE VIEW



BOTTOM VIEW



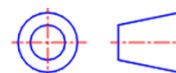
Suggest PCB Layout

Part Marking:

"●" on core denotes start terminal.

xxx : Inductance value in uH.

Third Angle Projection:



Notes:

- 1>. Open Circuit Inductance (OCL) test condition: 100KHz,0.25Vrms, 0Adc at 25°C.
- 2>. Isat: DC current that will cause inductance to drop approximately by 10%.
- 3>. Irms: DC current rating at 40 ° C temp. raise without core loss (Typical) .

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