

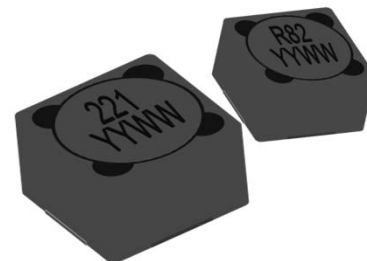


SDRH125B Series



1. Features of SDRH125B Series :

- Ferrite based SMD inductor with lower core loss.
- Inductance Range: 0.82 uH to 1000.0 uH , custom values are welcomed.
- High current output chokes, up to 24.2 Amp with approx. 30% roll off.
- Low Profile 6.00mm max. height.
- Foot Print 12.5 x 12.5mm max.
- Perfect for high density designs with limited board space.
- Operating Temperature Range -55°C to + 130°C.
- RoHS, HF and AEC-Q200 Standard Compliant
- T & R Qty: 500 pcs , 13" Reel.



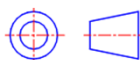
2. Electrical Characteristics of SDRH125B Series:

ITG Part Number	OCL (uH) ±20%	DCR (mΩ) Typ.	DCR (mΩ) Max.	Isat (A) @25°C	L@Isat (uH) Typ.	Irms (A) @25°C	L@Irms (uH) Typ.
SDRH125B-R82MHF	0.82	3.90	4.70	24.20	0.66	15.50	0.80
SDRH125B-1R5MHF	1.50	5.20	6.20	18.50	1.06	13.30	1.33
SDRH125B-2R2MHF	2.20	6.40	7.70	14.80	1.68	12.00	1.99
SDRH125B-3R3MHF	3.30	7.90	9.50	12.60	2.31	10.80	2.68
SDRH125B-4R7MHF	4.70	10.70	12.80	10.10	4.02	9.30	4.56
SDRH125B-6R8MHF	6.80	11.90	14.30	8.40	5.23	8.80	4.89
SDRH125B-8R2MHF	8.20	15.60	18.70	7.60	6.22	7.70	6.12
SDRH125B-100MHF	10.00	16.40	19.70	6.90	7.94	7.50	7.02
SDRH125B-150MHF	15.00	26.80	32.20	5.65	12.04	5.80	11.02
SDRH125B-220MHF	22.00	31.80	38.20	4.70	16.02	5.40	13.50
SDRH125B-330MHF	33.00	44.50	53.40	4.00	24.57	4.50	19.99
SDRH125B-470MHF	47.00	65.90	79.20	3.20	38.25	3.70	27.02
SDRH125B-680MHF	68.00	99.10	119.00	2.70	56.65	3.05	47.77
SDRH125B-820MHF	82.00	121.00	145.00	2.40	71.07	2.75	57.64
SDRH125B-101MHF	100.00	155.00	186.00	2.20	87.64	2.40	72.53
SDRH125B-151MHF	150.00	217.00	260.00	1.80	132.70	2.05	98.60
SDRH125B-221MHF	220.00	321.00	385.00	1.50	187.66	1.70	152.50
SDRH125B-331MHF	330.00	434.00	499.00	1.20	278.40	1.45	185.90
SDRH125B-471MHF	470.00	627.00	721.00	1.00	397.55	1.20	289.95
SDRH125B-681MHF	680.00	888.00	1021.00	0.85	512.30	1.00	409.65
SDRH125B-821MHF	820.00	1093.00	1257.00	0.76	651.70	0.92	538.30
SDRH125B-102MHF	1000.00	1409.00	1620.00	0.69	878.80	0.80	680.30

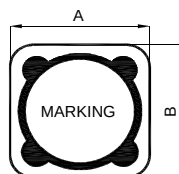
3. Mechanical Dimension of SDRH125B Series (Unit:mm)

A	B	C	D	E	F
±0.3	±0.3	Max.	Ref.	Ref.	Ref.
12.2	12.2	6.0	7.0	5.0	2.4

Third Angle Projection:



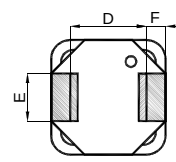
Part Marking:
Rxx x: xx is inductance value in uH(R:decimal point),
x is special code.
YYWW: Date Code



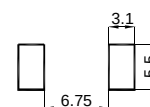
TOP VIEW



SIDE VIEW



BOTTOM VIEW



Suggest PCB Layout

Notes:

1. Open Circuit Inductance (OCL), L@Irms, L@Isat and DCR test condition: 100KHz, 0.25Vrms at 25°C.
2. Isat: DC current that causes inductance to drop by approximately 30% from OCL; (Ta=25°C)
3. Irms: DC current that causes an approximate temperature rise (ΔT) of 40°C;(Ta=25°C)

● 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 B: January 14, 2016

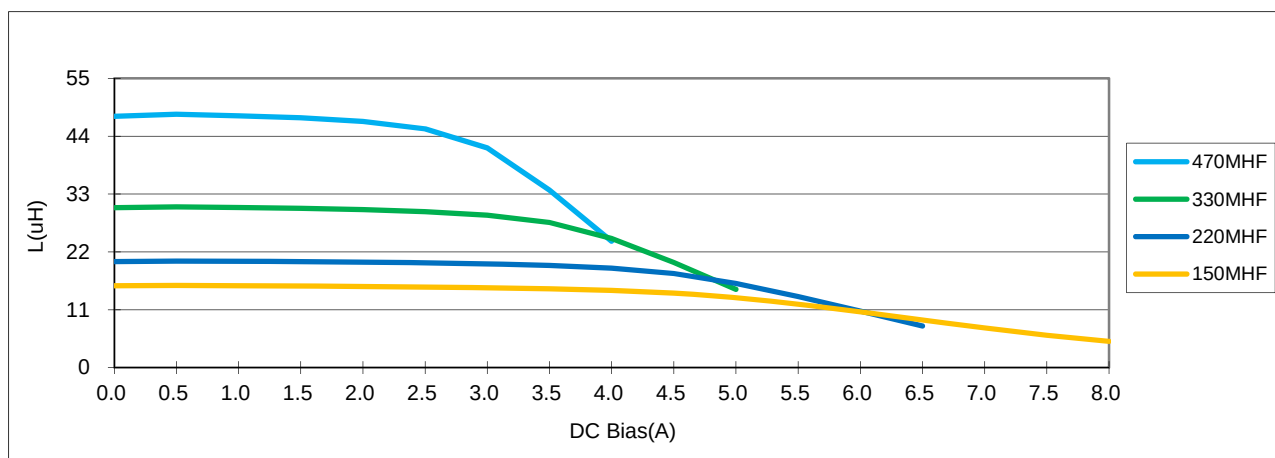
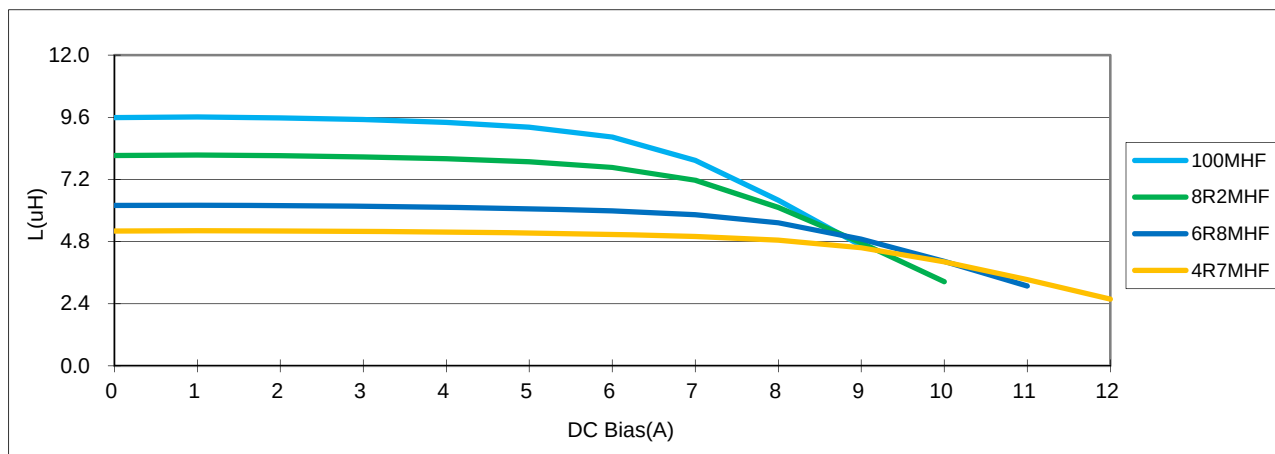
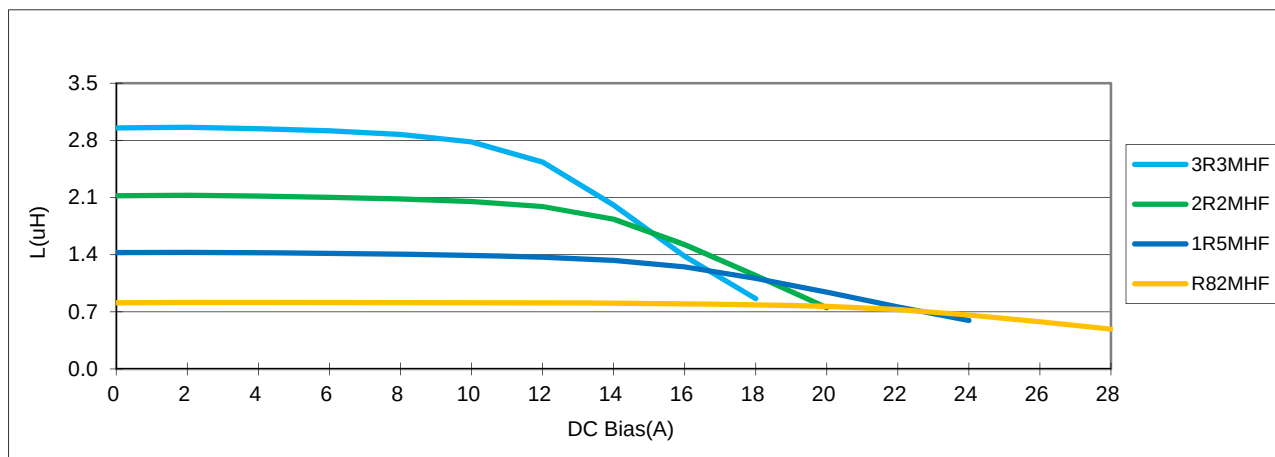
*Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.



SDRH125B Series



4. Inductance Characteristics of SDRH125B Series (Inductance vs Current):



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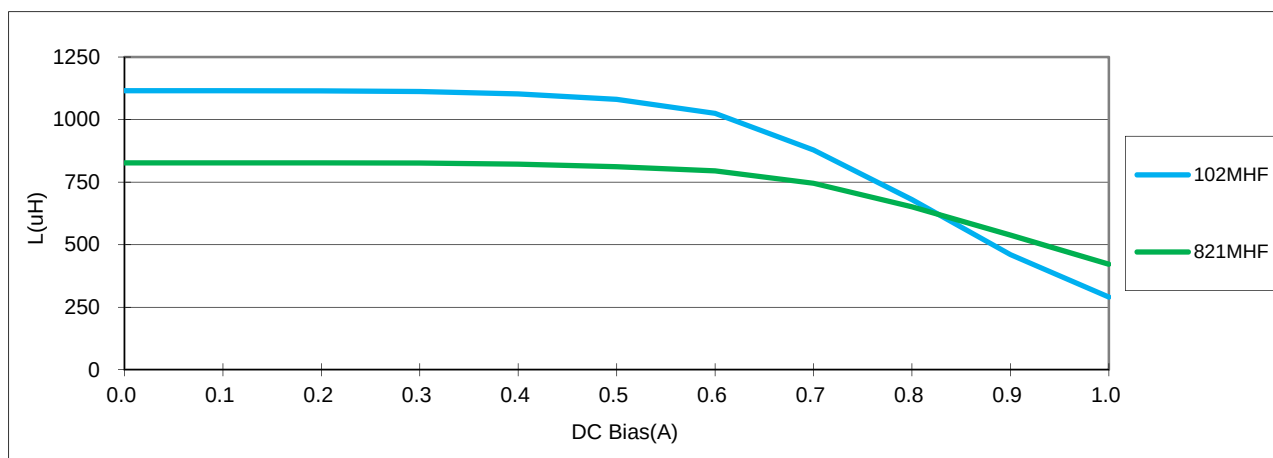
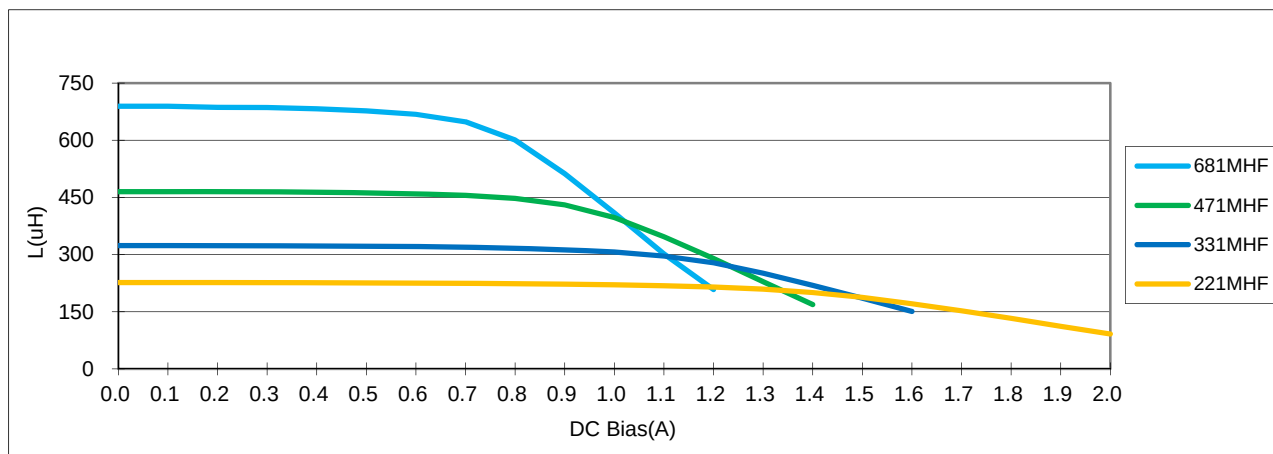
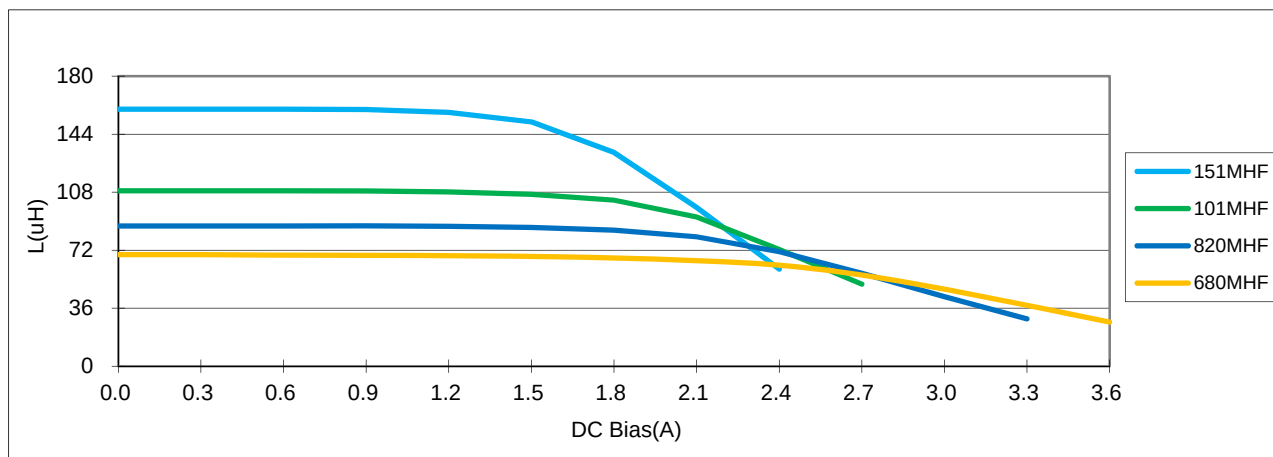
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