

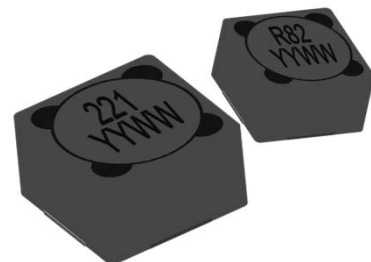


SDRH127B Series



1. Features of SDRH127B 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 38.0 Amp with approx. 30% roll off.
- Low Profile 8.10mm max. height.
- Foot Print 12.50 x 12.50 mm 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 Qtys: 400 pcs , 13" Reel.



2. Electrical Characteristics of SDRH127B Series:

ITG Part Number	OCL ¹ (uH) ±20%	DCR (mΩ) Typ. @25°C	DCR (mΩ) Max. @25°C	Isat ² (A) @25°C	L@Isat (uH) Typ.	Irms ³ (A) @25°C	L@Irms (uH) Typ.
SDRH127B-R82MHF	0.82	4.67	5.60	38.00	0.63	14.00	0.81
SDRH127B-1R5MHF	1.50	5.61	6.70	31.10	1.02	12.80	1.34
SDRH127B-2R2MHF	2.20	7.45	8.90	25.50	1.44	11.10	2.11
SDRH127B-3R3MHF	3.30	8.86	10.60	21.50	2.05	10.20	2.90
SDRH127B-4R7MHF	4.70	10.86	13.00	16.50	3.52	9.20	4.75
SDRH127B-6R8MHF	6.80	13.50	16.20	13.30	5.20	8.25	6.20
SDRH127B-8R2MHF	8.20	15.20	18.30	12.20	6.32	7.78	7.70
SDRH127B-100MHF	10.00	18.60	22.30	11.20	7.80	7.05	9.30
SDRH127B-150MHF	15.00	27.80	33.40	9.66	11.11	5.75	14.70
SDRH127B-180MHF	18.00	32.00	41.60	5.60	16.11	3.80	16.95
SDRH127B-220MHF	22.00	37.20	44.60	7.57	16.87	4.95	20.80
SDRH127B-270MHF	27.00	45.00	58.50	5.00	24.03	3.30	25.50
SDRH127B-330MHF	33.00	52.20	63.00	6.22	26.20	4.20	31.85
SDRH127B-470MHF	47.00	75.70	90.80	5.28	35.08	3.50	45.30
SDRH127B-680MHF	68.00	116.00	139.20	4.44	52.17	2.80	66.00
SDRH127B-820MHF	82.00	135.00	162.00	4.06	61.44	2.60	80.20
SDRH127B-101MHF	100.00	152.50	183.00	3.64	71.41	2.45	98.25
SDRH127B-151MHF	150.00	214.00	256.80	3.01	113.75	2.08	142.40
SDRH127B-221MHF	220.00	307.50	369.00	2.43	166.38	1.73	203.50
SDRH127B-331MHF	330.00	455.00	546.00	2.01	250.15	1.42	313.50
SDRH127B-471MHF	470.00	647.00	776.40	1.68	374.15	1.20	459.80
SDRH127B-681MHF	680.00	920.00	1104.00	1.39	526.10	1.00	704.90
SDRH127B-821MHF	820.00	1080.00	1296.00	1.27	637.00	0.92	840.50
SDRH127B-102MHF	1000.00	1330.00	1596.00	1.14	837.60	0.83	1025.00

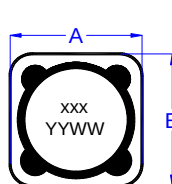
3. Mechanical Dimension of SDRH127B Series (Unit:mm)

A	B	C	D	E	F
±0.5	±0.5	Max.	Ref.	Ref.	Ref.
12.0	12.0	8.1	7.0	5.0	2.4

Third Angle Projection:



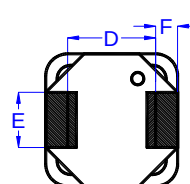
Part Marking:
xxx : inductance value in uH.
YYWW: Date Code



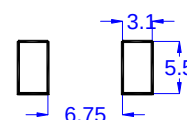
TOP VIEW



SIDE VIEW



BOTTOM VIEW



Suggest PCB Layout

Notes:

1. Open Circuit Inductance (OCL), L@Irms, L@Isat 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
 ● Japan 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 C.1: July 26, 2018

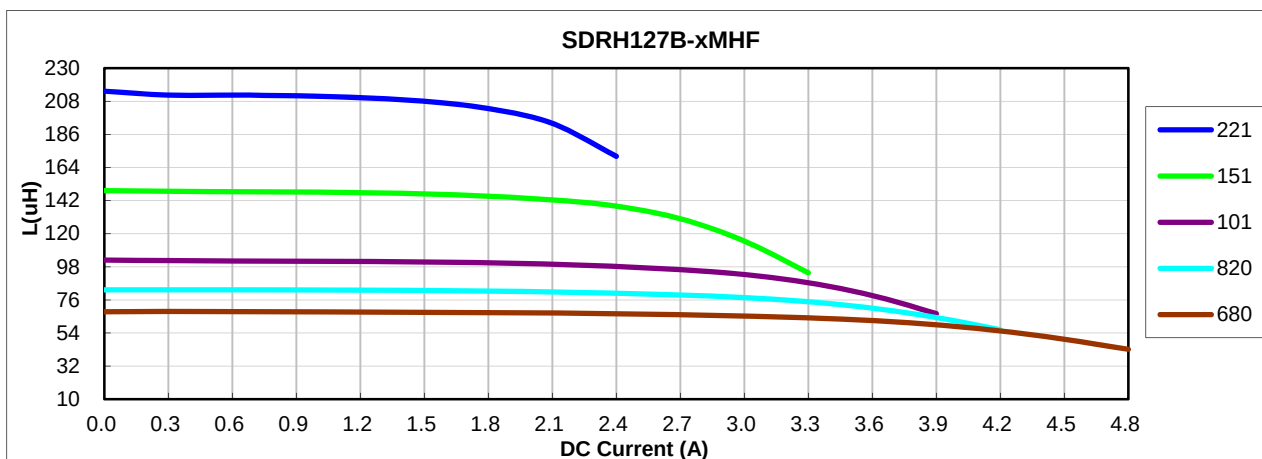
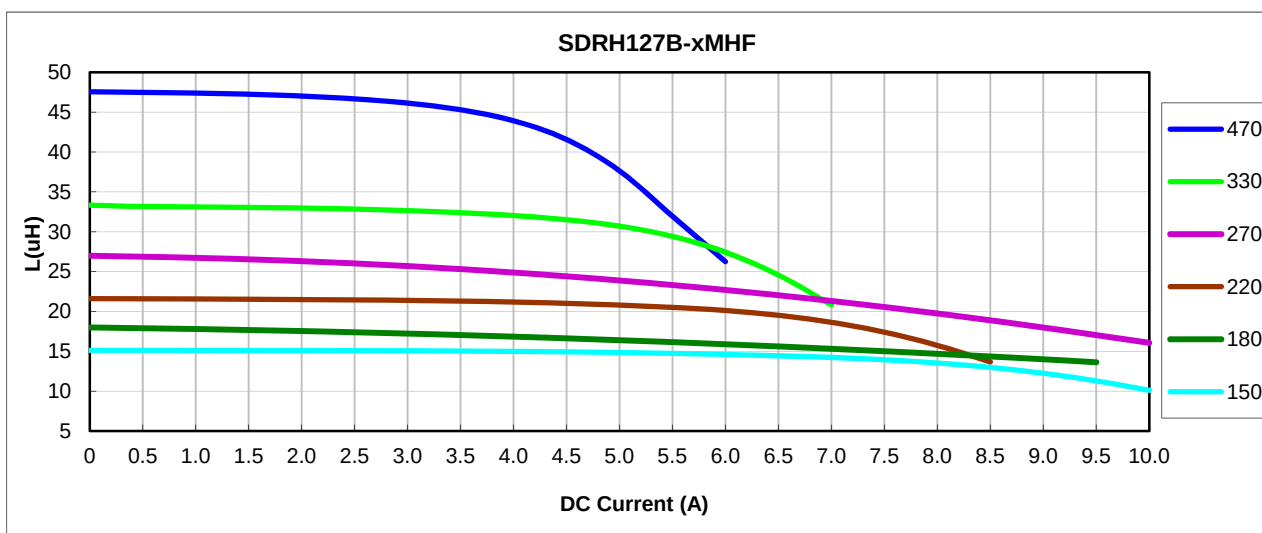
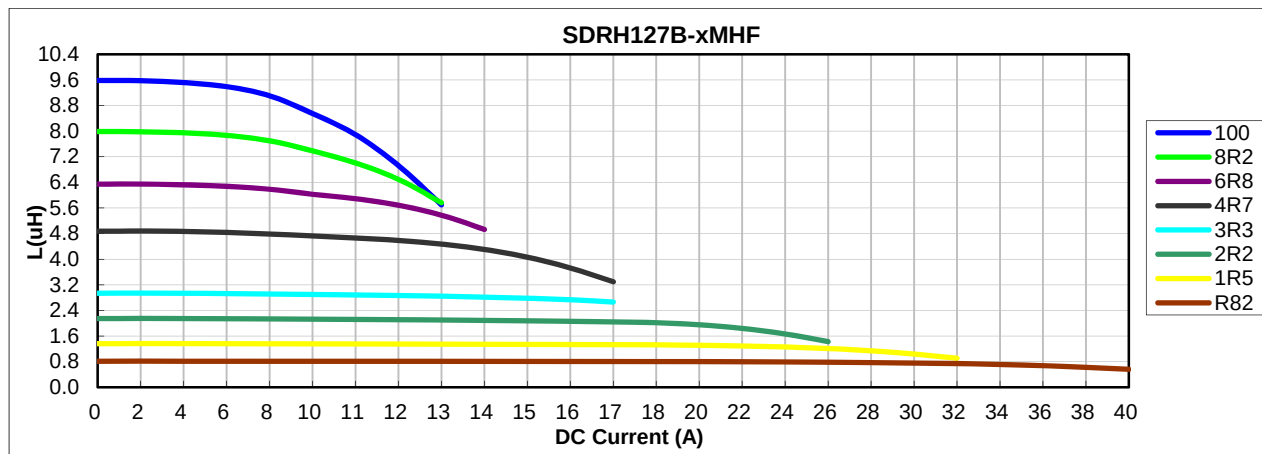
*Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.



SDRH127B Series



4. Inductance Characteristics of SDRH127B Series (Inductance vs Current):



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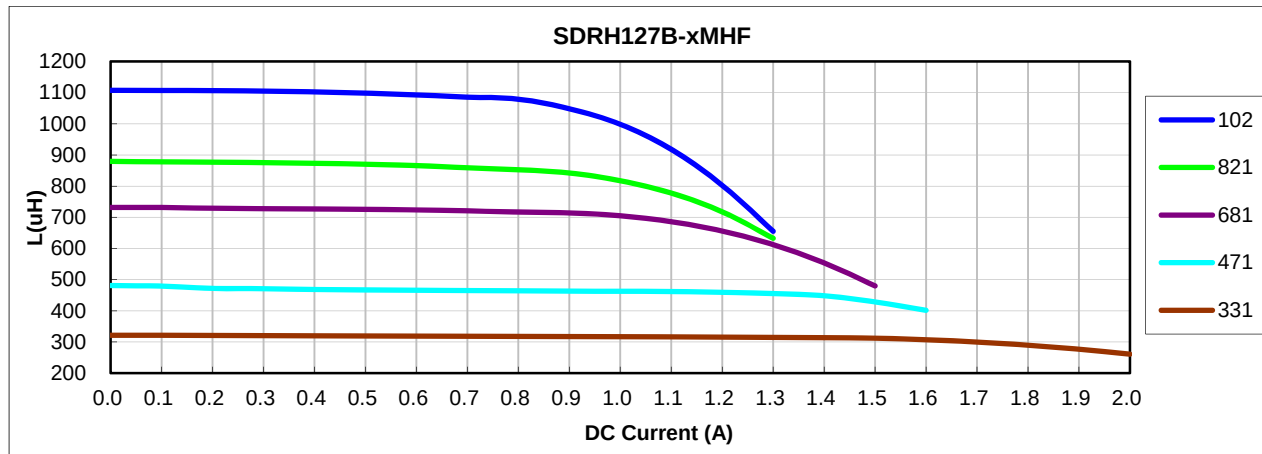
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