

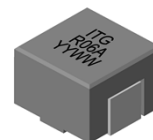


SL30207 Series



1. Features of SL30207 Series:

- Ferrite based SMD inductor with lower core loss.
- Inductance range: 55.0 nH to 200.0 nH , custom values are welcomed.
- High current output chokes , up to 90.0 Amp with approx. 20% roll off.
- Low Profile 5.00 mm max height .
- 7.60 x 7.50 mm Foot Print.
- Ideal for Buck Converter, VRM & High Density Board Design.
- Operating frequency of up to 5.0MHz.
- Operating temperature range of -55° C to + 130° C, RoHS & HF compliant.
- T & R Qty's: 950pcs, 13" Reel.

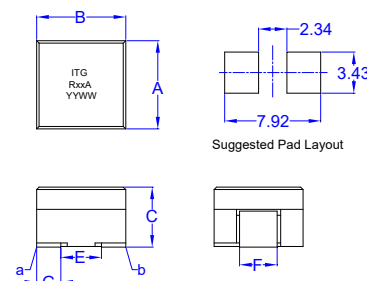


2. Electrical Characteristics of SL30207 Series:

ITG Part Number	OCL ¹ (nH) ± 10%	L @ Isat1 ² (nH) Min.	DCR ³ (mΩ) ± 17%	Isat1 ⁴ (A) @25°C	Isat2 ⁴ (A) @125°C	Irms ⁵ (A) @25°C
SL30207A-R055KHF	55.00	39.60	0.170	90.00	75.00	65.00
SL30207A-R06KHF	58.00	41.76	0.170	83.00	64.00	65.00
SL30207A-R07KHF	72.00	51.84	0.170	65.00	52.00	65.00
SL30207A-R10KHF	100.00	72.00	0.170	50.00	38.00	65.00
SL30207A-R15KHF	150.00	108.00	0.170	30.00	25.00	65.00
SL30207A-R20KHF	200.00	144.00	0.170	20.00	16.00	65.00

3. Mechanical Dimension of SL30207 Series:

A	B	C	E	F	G
Max.	Max.	Max.	Ref.	± 0.20	± 0.30
7.50	7.60	5.00	3.00	3.10	2.15



Third Angle Projection:



Part Marking:
ITG: ITG is Company name.
RxxA: Rxx is inductance value in uH(R:decimal point).
A is Special Code.
YYWW: YYWW is Date Code.

Notes:

1. Open Circuit Inductance (OCL) test condition: 100KHz, 0.1Vrms, 0A DC at 25°C.
2. L @ Isat and L @ Irms Test condition: 100KHz, 0.1Vrm (Ta=25°C).
3. The nominal DCR is measured from point "a" to point "b" as shown above in the mechanical drawing (Ta=25°C).
4. Isat1 & Isat2: DC current that will cause inductance to drop approximately by 20%.
5. Irms: DC current for an approximate temperature rise of 40°C without core loss.
6. Derating is necessary for AC currents. PCB pad layout , trace thickness and width , air-flow and proximity of other heat generating components will affect the temperature rise.
7. It is recommended the part temperature not exceed 130° C under worst case operating conditions as verified in the end application.

● 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 A.3: August 19, 2025

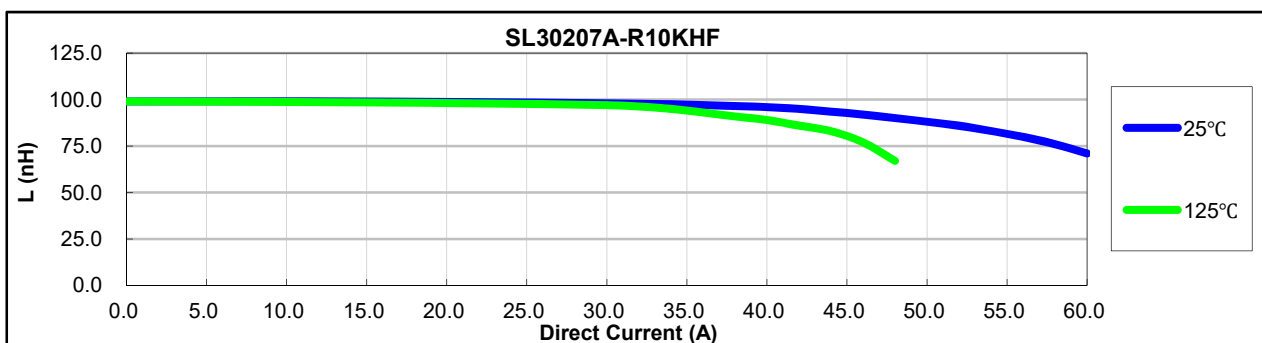
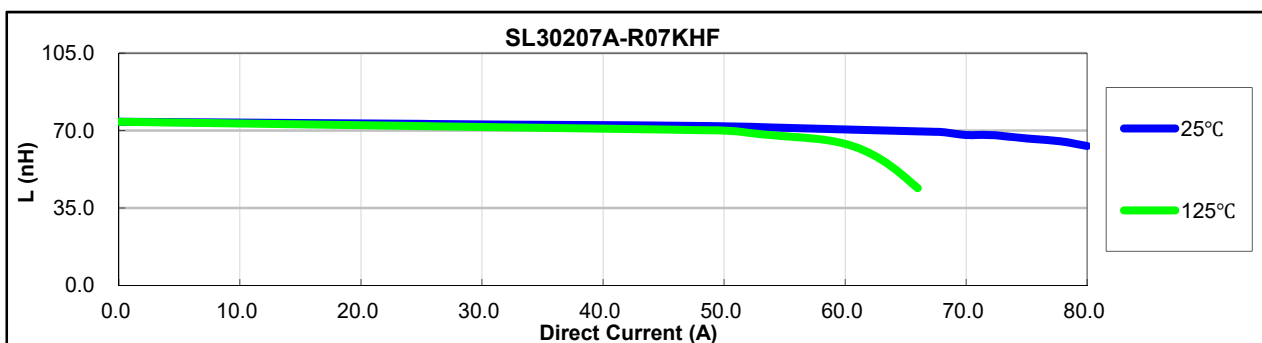
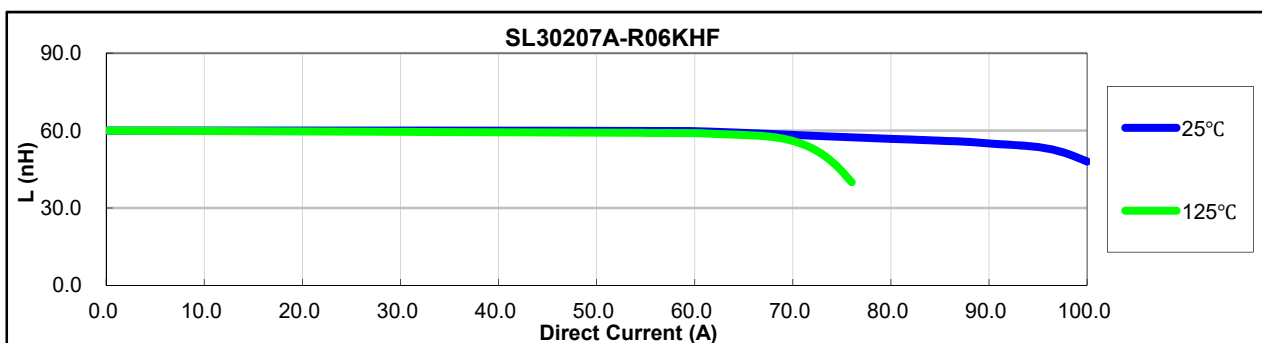
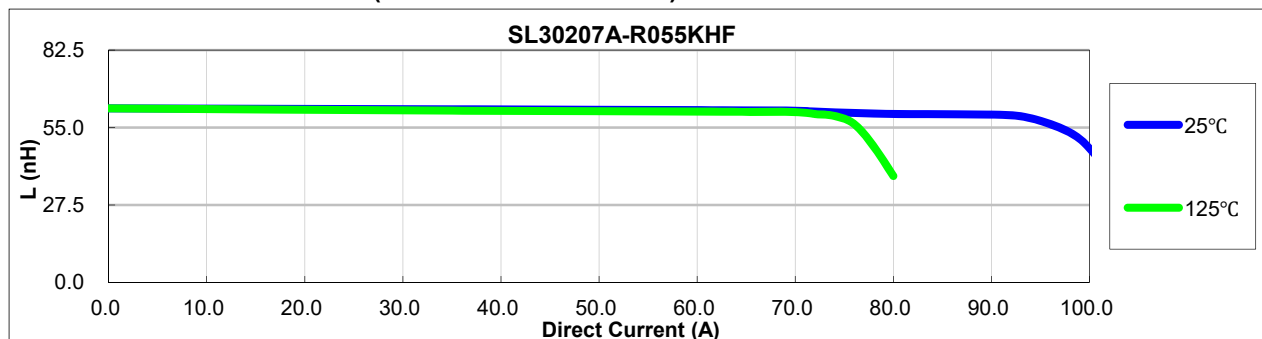
**Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.*



SL30207 Series



4. Inductance Characteristics (Inductance vs. Current):



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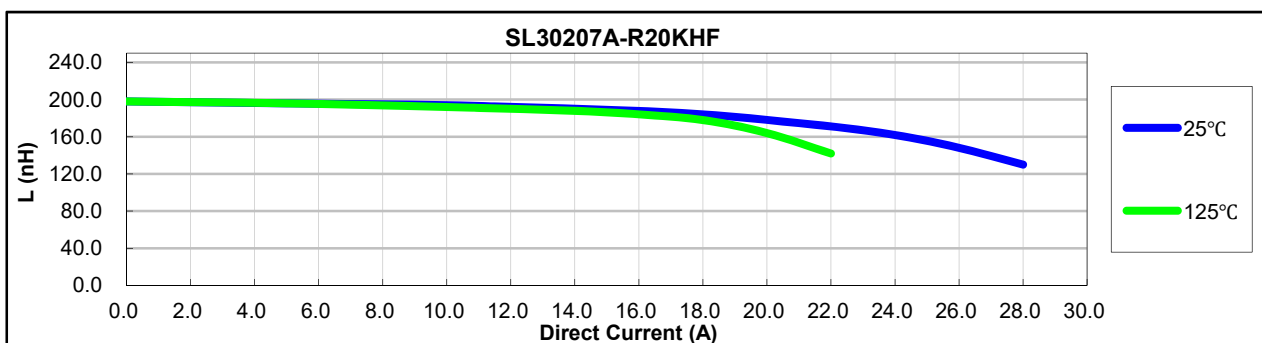
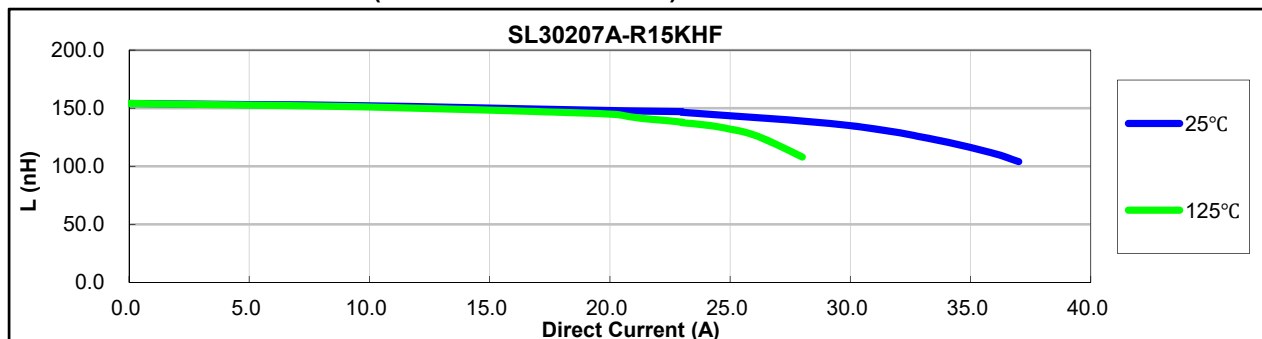
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