

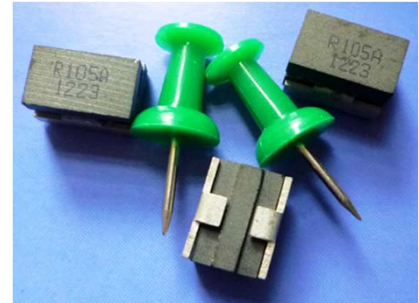


SL323511 Series



1. Features:

- Ferrite based SMD Inductor with lower core loss.
- Custom values are welcomed.
- High current output chokes, upto 56.0 Amp with approx. 20% roll off.
- Low Profile 8.90mm Max. height .
- Foot Print 8.20 x 11.00 mm Max.
- Ideal for Buck Converter, VRM & High Density Board Design.
- Operating frequency up to 1 MHz application.
- Operating Temperature Range -55°C to + 130°C , RoHs & HF compliance .
- T & R Qtys: 500 pcs , 13" Reel ;

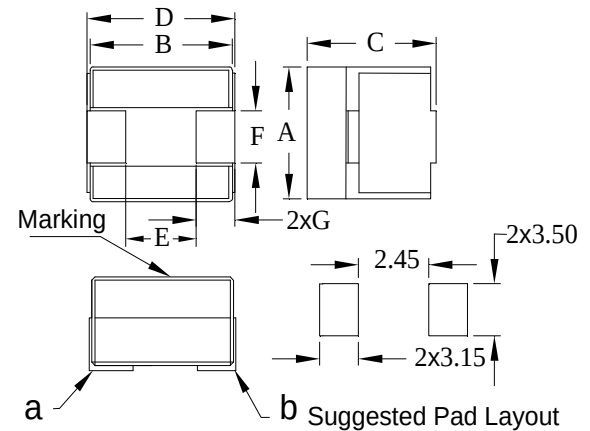


2. Electrical Characteristic of SL323511 Series:

Part Number	Inductance (uH) ±10%	DCR (mΩ) ± 5.0%	Isat ¹ (A) @25°C	Isat ² (A) @75°C	Isat ³ (A) @100°C	Irms (A) @25°C
SL323511A-R15KHF	0.150	0.05	56.0	54.0	50.0	92.0

3. Mechanical Dimension(Unit:mm):

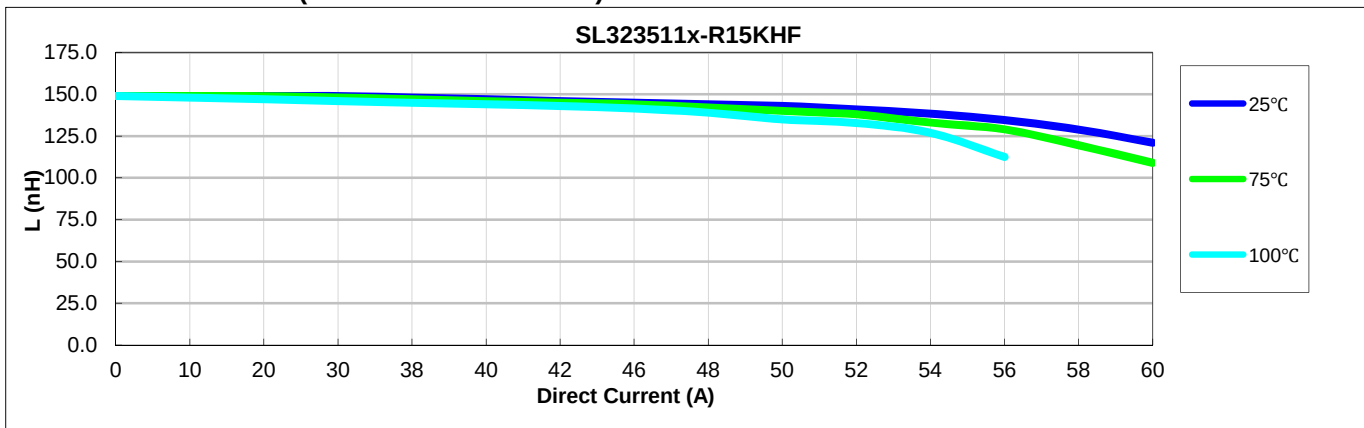
A	B	C	D	E	F	G
Max.	Max.	Max.	Max.	Nom.	Nom.	Nom.
11.00	6.65	8.90	8.20	2.80	3.00	2.40



Note:

- 1>.Open Circuit Inductance (OCL) test condition:100KHz,0.1Vrms,0A_{dc} ,at 25°C.
- 2>.Full Load Inductance (FLL) Test condition:100KHz,0.1Vrms ,Isat ;(Ta=25°C).
- 3>.Isat¹,Isat² & Isat³ : DC current that will cause inductance to drops approximately by 20% ;
- 4>. Irms: DC current for an approximate temperature rise of 40°C without core loss,.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. It is recommended the part temperature not exceed 130°C under worst case operating conditions verified in the end application.
- 5>.The nominal DCR is measured from point "a" to point "b",as shown above on the mechanical drawing.

4. Inductance Characteristics (Inductance vs. Current):

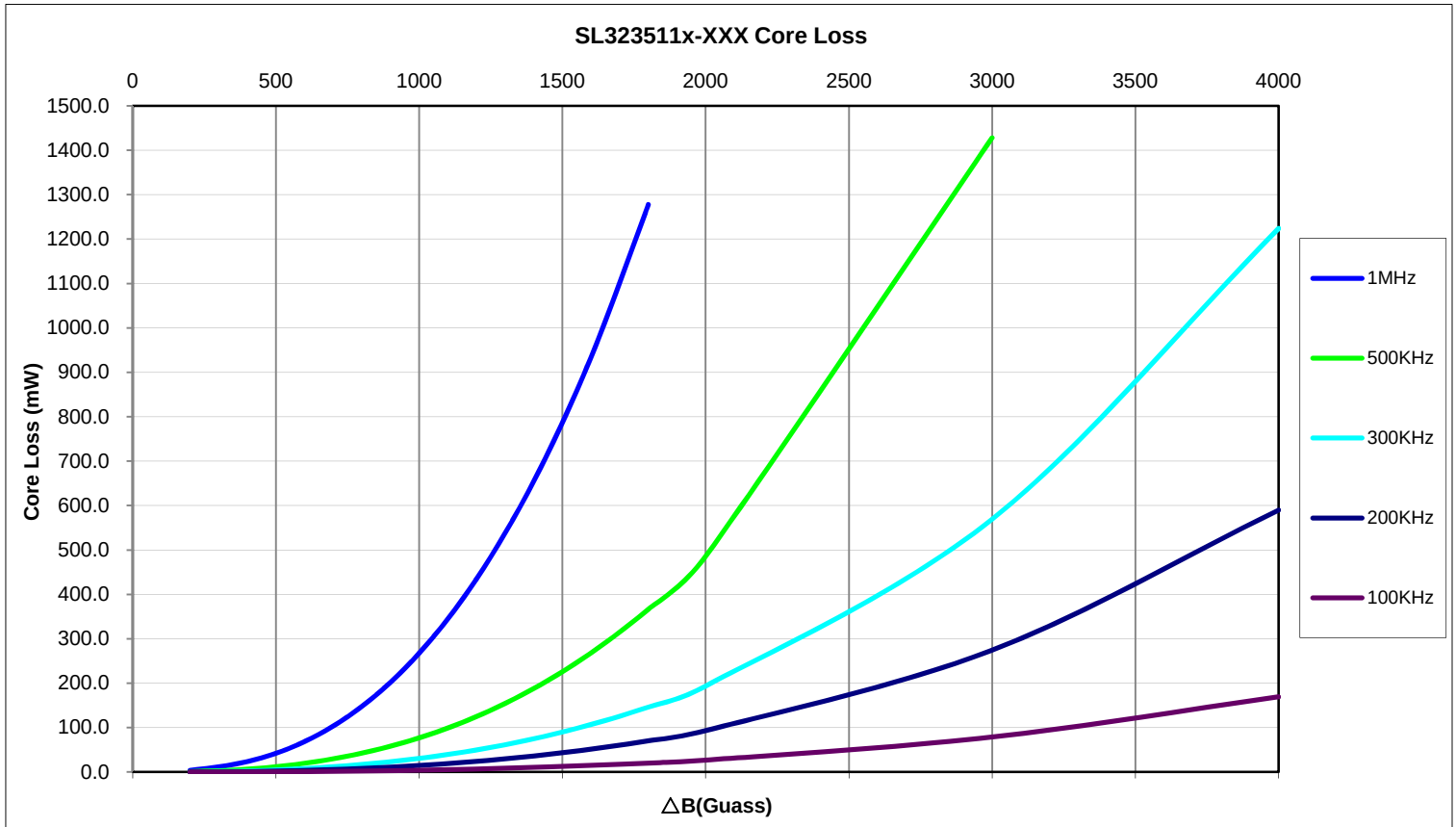




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5. Core Loss:



Where $\Delta B = 0.46 \cdot L(nH) \cdot \Delta I$