

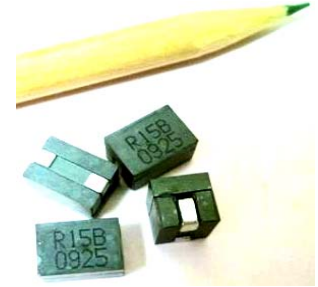


SL4330 Series



1. Features:

- Ferrite based SMD Inductor with lower core loss.
- Inductance Range:150nH to 510nH. Custom values are welcomed.
- High current output chokes, upto 72 Amp with approx. 20% roll off.
- Low Profile 7.5mm Max. height .
- Foot Print 11.0 x 7.2 mm Max.
- Ideal for Buck Converter, VRM & High Density Board Design.
- Operating up to 1 MHz application.
- Operating Temperature Range -55°C to + 130°C ; RoHs compliance .
- T & R Qtys: 500 pcs , 13" Reel ;



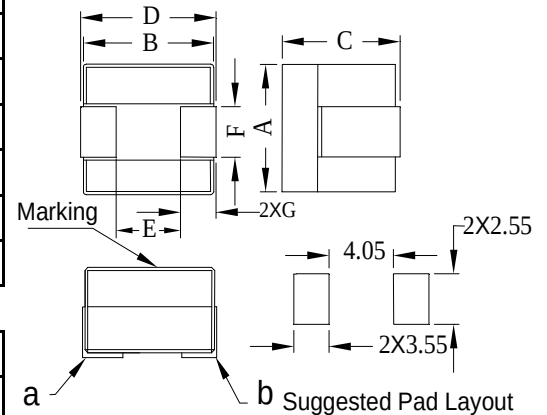
2. Electrical Characteristic of SL4330 Series:

Part Number	Inductance (uH) 10% or 15%	DCR (mΩ) ±5.0%	Isat ¹ (A) @25°C	Isat ² (A) @45°C	Isat ³ (A) @100°C	Isat ⁴ (A) @125°C	Irms (A) @25°C
SL4330A-R15KU	0.15 , 10%	0.245	72.0	65.0	61.0	58.0	59.0
SL4330A-R18KU	0.18 , 10%	0.245	63.0	61.0	54.0	50.0	59.0
SL4330A-R21KU	0.21 , 10%	0.245	51.0	48.0	44.0	37.0	59.0
SL4330A-R23KU	0.23 , 10%	0.245	50.0	47.0	43.0	36.0	59.0
SL4330A-R30LU	0.30 , 15%	0.245	36.0	34.0	29.0	28.0	59.0
SL4330A-R40LU	0.40 , 15%	0.245	26.0	25.0	23.0	20.0	59.0
SL4330A-R51LU	0.51 , 15%	0.245	19.0	18.0	17.0	16.0	59.0

SL4330B-R15KU	0.15 , 10%	0.290	72.0	65.0	61.0	58.0	55.0
SL4330B-R18KU	0.18 , 10%	0.290	63.0	61.0	54.0	50.0	55.0
SL4330B-R21KU	0.21 , 10%	0.290	51.0	48.0	44.0	37.0	55.0
SL4330B-R23KU	0.23 , 10%	0.290	50.0	47.0	43.0	36.0	55.0
SL4330B-R30LU	0.30 , 15%	0.290	36.0	34.0	29.0	28.0	55.0
SL4330B-R40LU	0.40 , 15%	0.290	26.0	25.0	23.0	20.0	55.0
SL4330B-R51LU	0.51 , 15%	0.290	19.0	18.0	17.0	16.0	55.0

3. Mechanical Dimension(Unit:mm):

A	B	C	D	E	F	G
Max.	Max.	Max.	Max.	Nom.	Nom.	Nom.
7.20	10.40	7.50	11.00	5.60	2.05	2.50



Note:

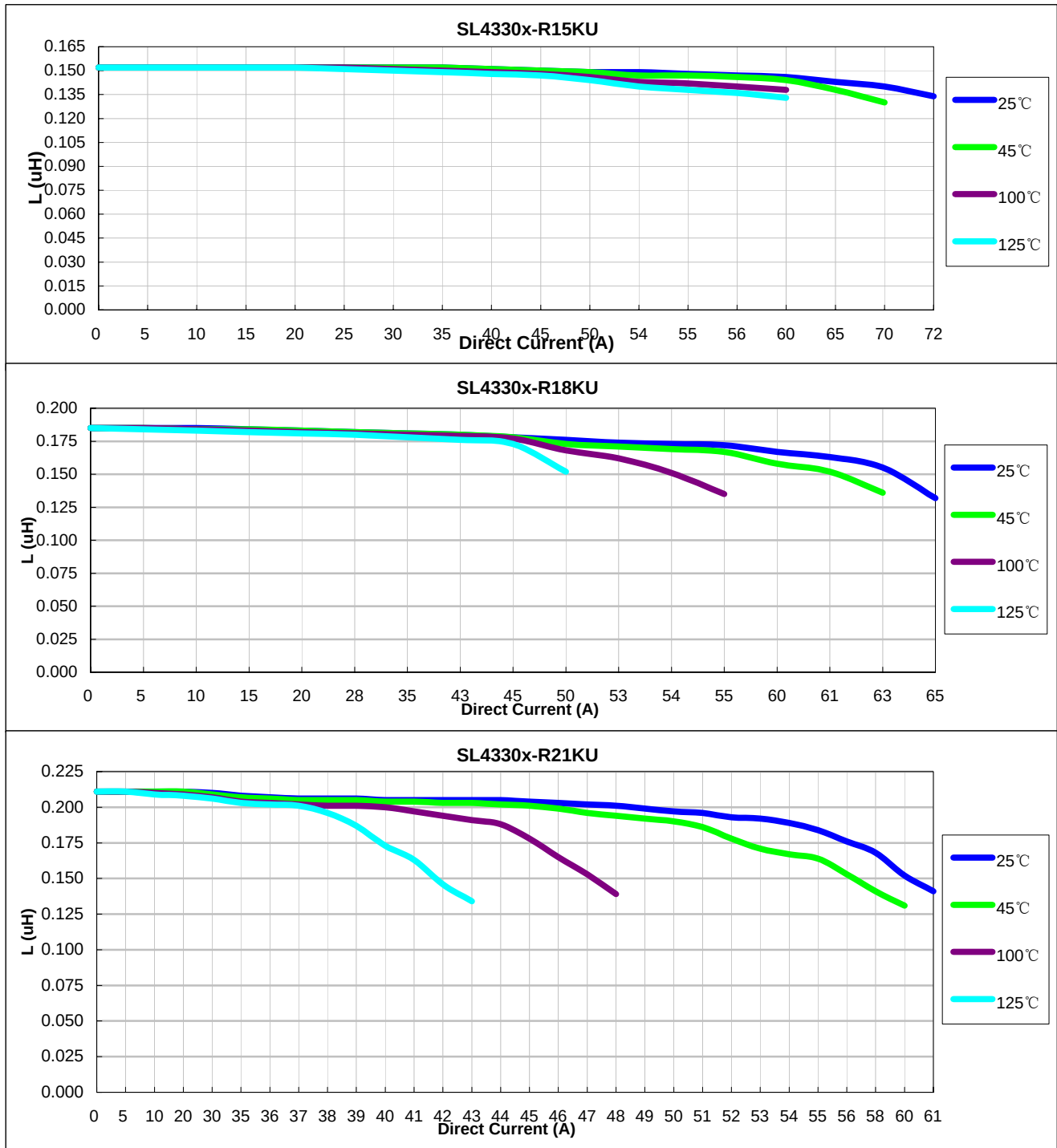
- 1>.Open Circuit Inductance (OCL) test condition:100KHz,0.1Vrms,0Adc ,at 25°C.
- 2>.Full Load Inductance (FLL) Test condition:100KHz,0.1Vrms ,Isat;(Ta=25°C).
- 3>.Isat1,Isat2,Isat3 & Isat4: DC current that will cause inductance to drop approximately by 20%.(Ta=25°C).
- 4>. Irms: DC current for an approximate 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.



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4. Inductance characteristics(Inductance vs. Current):





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Inductance vs. Current

