

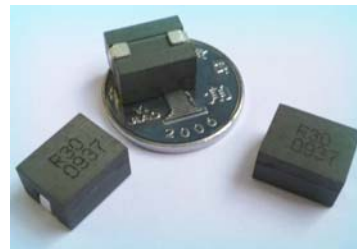


SL4130 Series



1. Features:

- Ferrite based SMD Inductor with lower core loss.
- Inductance Range:120nH to 300nH. Custom values are welcomed.
- High current output chokes, upto 94 Amp with approx. 20% roll off.
- Low Profile 7.5mm Max. height .
- Foot Print 10.41 x 8.0 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 compliance .
- T & R Qtys: 750 pcs , 13" Reel ;



2. Electrical Characteristic of SL4130 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	Irms ⁴ (A) @25°C
SL4130A-R12KU	0.12 , 10%	0.29	94.0	90.0	76.0	61.0
SL4130B-R12KU	0.12 , 10%	0.27	94.0	90.0	76.0	63.0
SL4130A-R15KU	0.15 , 10%	0.29	86.0	82.0	67.0	61.0
SL4130B-R15KU	0.15 , 10%	0.27	86.0	82.0	67.0	63.0
SL4130A-R17KU	0.17 , 10%	0.29	72.0	69.0	60.0	61.0
SL4130B-R17KU	0.17 , 10%	0.27	72.0	69.0	60.0	63.0
SL4130A-R20KU	0.20 , 10%	0.29	62.0	59.0	52.0	61.0
SL4130B-R20KU	0.20 , 10%	0.27	62.0	59.0	52.0	63.0
SL4130A-R21LU	0.215 , 15%	0.29	55.0	52.0	50.0	61.0
SL4130B-R21LU	0.215 , 15%	0.27	55.0	52.0	50.0	63.0
SL4130A-R23LU	0.23 , 15%	0.29	54.0	50.0	42.0	61.0
SL4130B-R23LU	0.23 , 15%	0.27	54.0	50.0	42.0	63.0
SL4130A-R26KU	0.26 , 10%	0.29	47.0	45.0	38.0	61.0
SL4130B-R26KU	0.26 , 10%	0.27	47.0	45.0	38.0	63.0
SL4130A-R27LU	0.27 , 15%	0.29	42.0	39.0	35.0	61.0
SL4130B-R27LU	0.27 , 15%	0.27	42.0	39.0	35.0	63.0
SL4130A-R30LU	0.30 , 15%	0.29	39.0	38.0	32.0	61.0
SL4130B-R30LU	0.30 , 15%	0.27	39.0	38.0	32.0	63.0

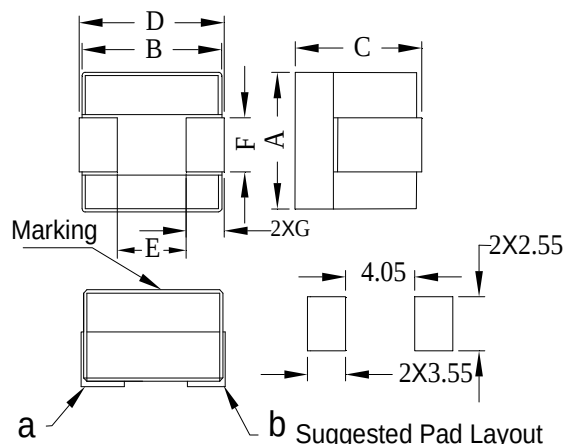
Note:

- 1>.Open Circuit Inductance (OCL) test condition:100KHz,0.1Vrms ,0Adc.
- 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 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.

4. Inductance characteristics(Inductance vs. Current):

3. Mechanical Dimension(Unit:mm):

A	B	C	D	E	F	G
Max.	Max.	Max.	Max.	Nom.	Nom.	Nom.
8.00	10.30	7.50	10.41	5.10	2.25	2.50

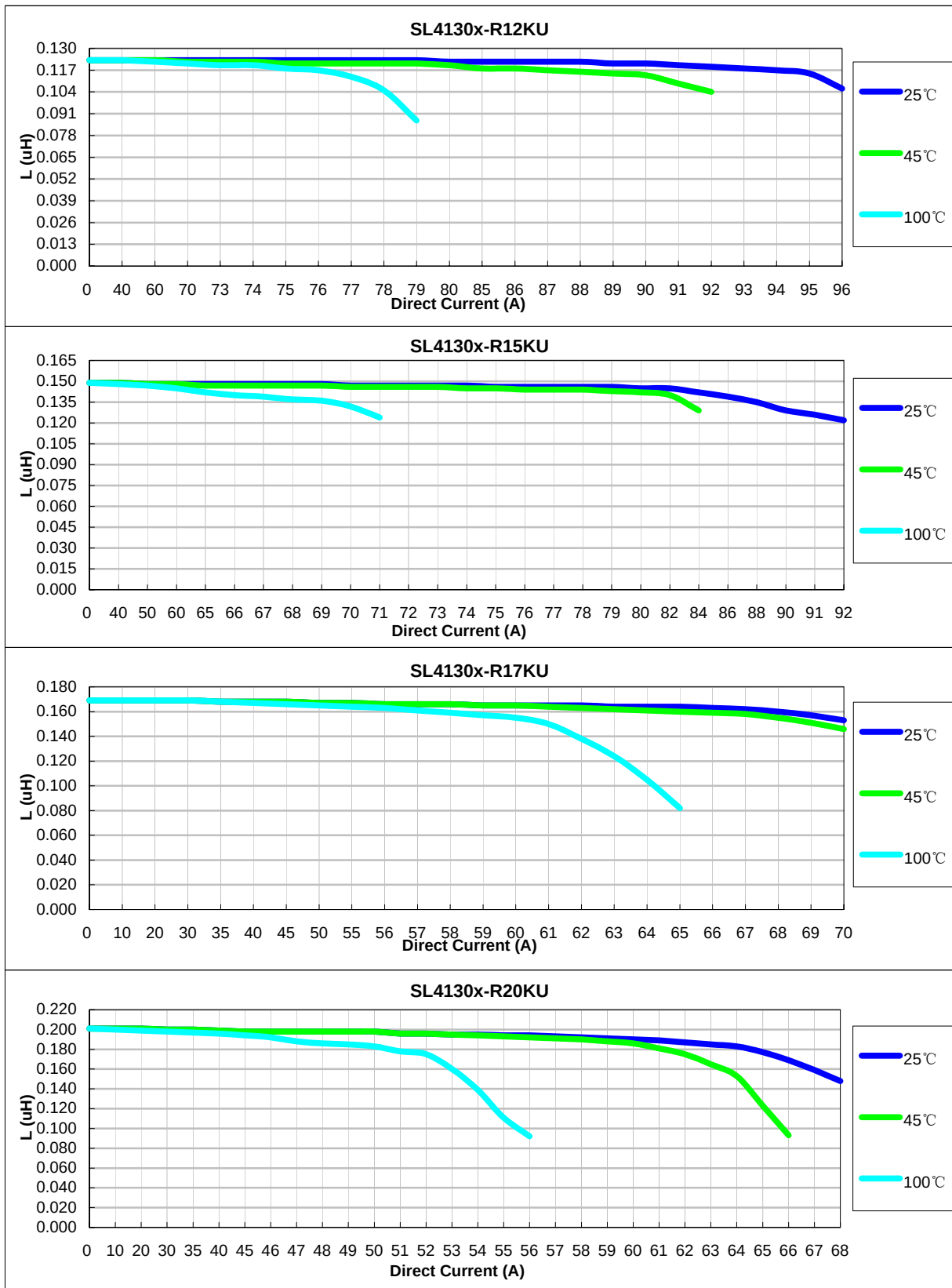




SL4130 Series



Inductance vs. Current



SL4130 Series

Inductance vs. Current

