



SL4330xP Series



1. Features:

- Ferrite based SMD Inductor with lower core loss.
- Inductance Range:120nH to 510nH. Custom values are welcomed.
- High current output chokes, upto 94 Amp with max. 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 .

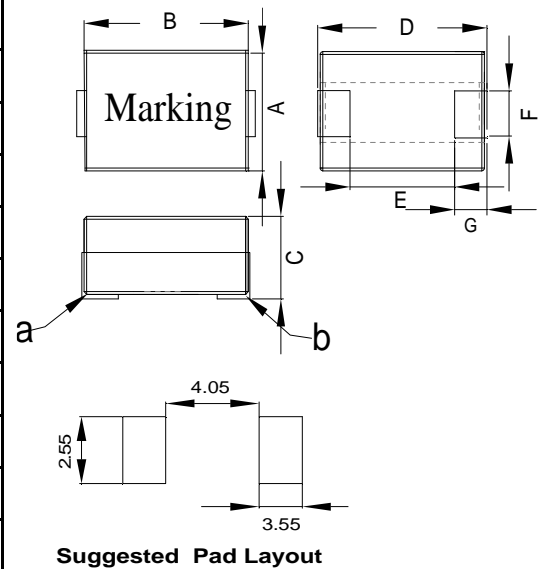


2. Electrical Characteristic of SL4330xP Series:

Part Number	Inductance (uH) 10% or 15%	DCR (mΩ) ±7%	Isat ¹ (A) @25 °C	Isat ² (A) @45°C	Isat ³ (A) @100 °C	Isat ⁴ (A) @125 °C	Irms (A)
SL4330AP-R12KHF	0.12 , 10%	0.245	94	90	80	72	59
SL4330BP-R12KHF	0.12 , 10%	0.290	94	90	80	72	55
SL4330AP-R15KHF	0.15 , 10%	0.245	72	65	61	58	59
SL4330BP-R15KHF	0.15 , 10%	0.290	72	65	61	58	55
SL4330AP-R18KHF	0.18 , 10%	0.245	63	61	54	50	59
SL4330BP-R18KHF	0.18 , 10%	0.290	63	61	54	50	55
SL4330AP-R21KHF	0.21 ,10%	0.245	51	48	44	37	59
SL4330BP-R21KHF	0.21 ,10%	0.290	51	48	44	37	55
SL4330AP-R23KHF	0.23 ,10%	0.245	50	47	43	36	59
SL4330BP-R23KHF	0.23 ,10%	0.290	50	47	43	36	55
SL4330AP-R30LHF	0.30 , 15%	0.245	36	34	29	28	59
SL4330BP-R30LHF	0.30 , 15%	0.290	36	34	29	28	55
SL4330AP-R40LHF	0.40 , 15%	0.245	26	25	23	20	59
SL4330BP-R40LHF	0.40 , 15%	0.290	26	25	23	20	55
SL4330AP-R51LHF	0.51 , 15%	0.245	19	18	17	16	59
SL4330BP-R51LHF	0.51 , 15%	0.290	19	18	17	16	55

3. Mechanical Dimension(Unit:mm):

A	B	C	D	E	F	G
Max.	Max.	Max.	Max.	Nom.	Nom.	Nom.
7.2	10.4	7.5	11.0	5.6	2.05	2.5



Note:

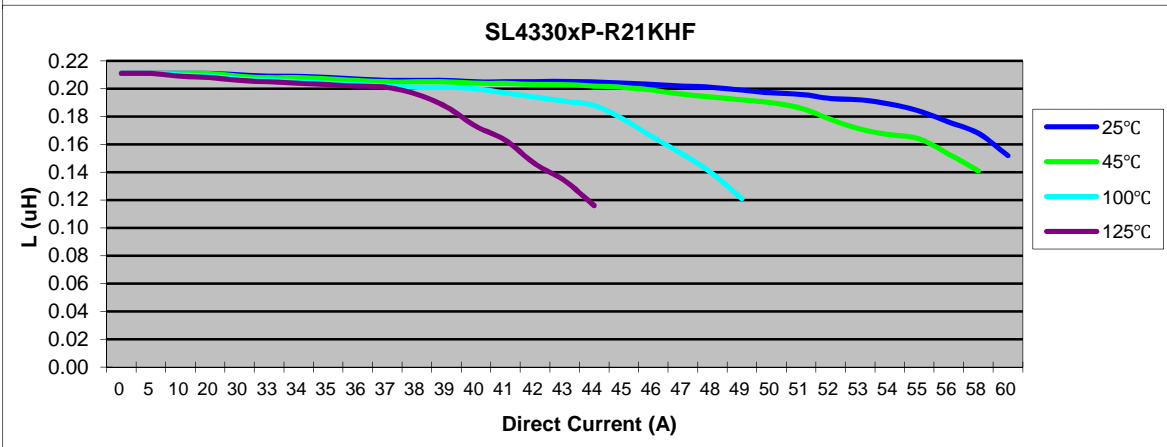
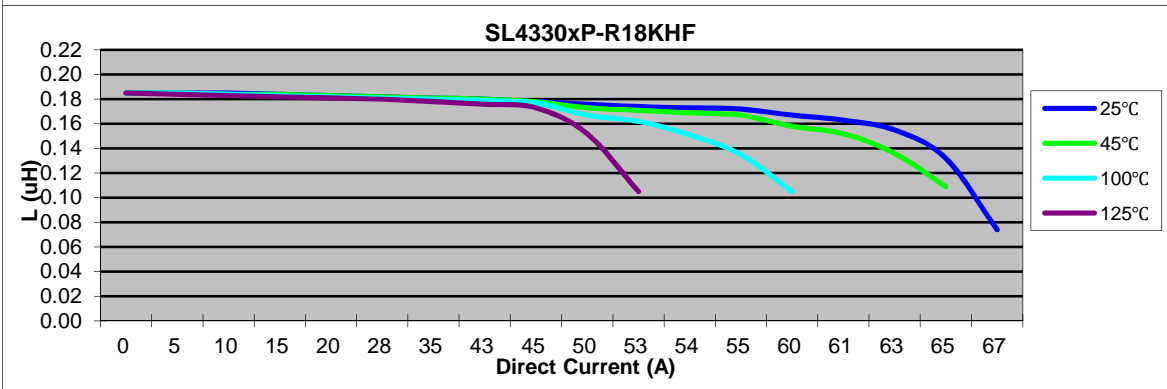
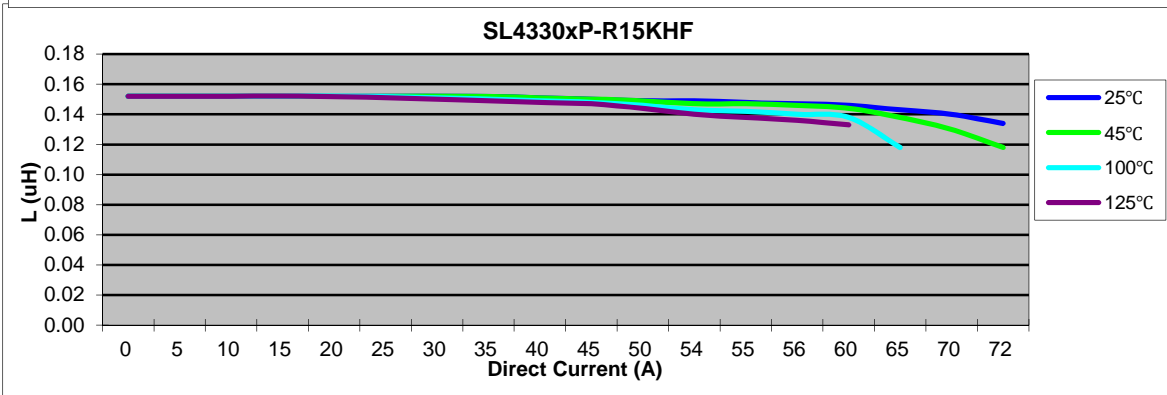
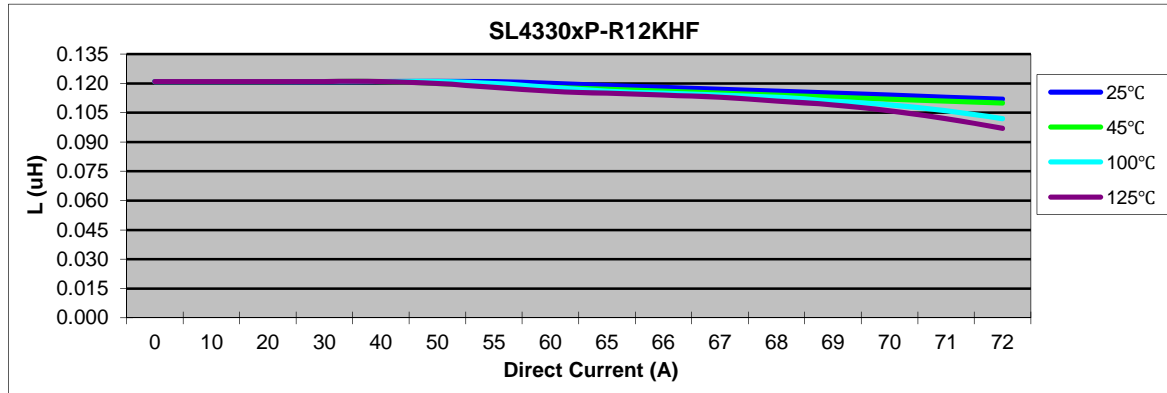
- 1.Open Circuit Inductance (OCL) test condition:100KHz,0.1Vrms ,0Adc.
- 2.Full Load Inductance (FLL) Test condition:100KHz,0.1Vrms ,Isat.(Ta=25°C).
- 3.Isat¹,Isat²,Isat³ & Isat⁴: DC current that will cause inductance to drop approximately by 20%.(Ta=25°C).
4. I rms: DC current for an approximate temperature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





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Inductance vs. Current

