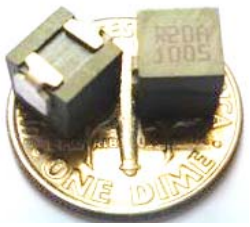
SL3032 Series

1. Features:

· Ferrite based SMD Inductor with lower core loss.
· Inductance Range:70nH to 200nH. Custom values are welcomed.
· High current output chokes, upto 70 Amp with approx. 20% roll off.
· Low Profile 8.0mm Max. height .
· Foot Print 7.2 x 6.2 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 ;

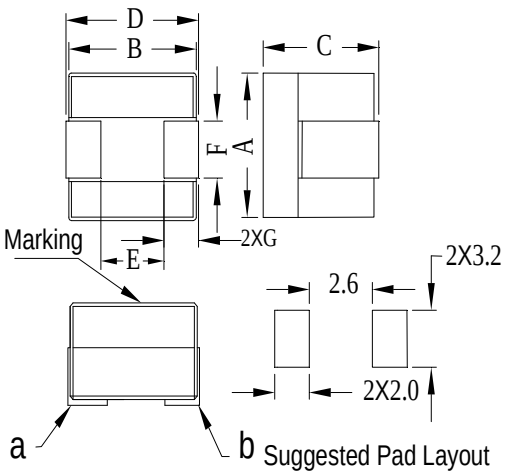


2. Electrical Characteristic of SL3032 Series:

Part Number	Inductance (nH) 15% or 20%	DCR (mΩ) ± 7%	Isat[1] (A) @25℃	Isat[2] (A) @45℃	Isat[3] (A) @75℃	Isat[4] (A) @100℃	Irms (A) @25℃
SL3032A-R07LHF	70 , 15%	0.23	70.0	69.0	65.0	60.0	35.0
SL3032B-R07LHF	70 , 15%	0.20	70.0	69.0	65.0	60.0	36.0
SL3032C-R07LHF	70 , 15%	0.18	70.0	69.0	65.0	60.0	39.0
SL3032A-R08LHF	80 , 15%	0.23	67.0	66.0	62.0	50.0	35.0
SL3032B-R08LHF	80 , 15%	0.20	67.0	66.0	62.0	50.0	36.0
SL3032C-R08LHF	80 , 15%	0.18	67.0	66.0	62.0	50.0	39.0
SL3032A-R09LHF	90 , 15%	0.23	56.0	54.0	50.0	46.0	35.0
SL3032B-R09LHF	90 , 15%	0.20	56.0	54.0	50.0	46.0	36.0
SL3032C-R09LHF	90 , 15%	0.18	56.0	54.0	50.0	46.0	39.0
SL3032A-R10LHF	100 , 15%	0.23	45.0	41.0	39.0	36.0	35.0
SL3032B-R10LHF	100 , 15%	0.20	45.0	41.0	39.0	36.0	36.0
SL3032C-R10LHF	100 , 15%	0.18	45.0	41.0	39.0	36.0	39.0
SL3032A-R13LHF	130 , 15%	0.23	35.0	34.0	31.0	28.0	35.0
SL3032B-R13LHF	130 , 15%	0.20	35.0	34.0	31.0	28.0	36.0
SL3032C-R13LHF	130 , 15%	0.18	35.0	34.0	31.0	28.0	39.0
SL3032A-R15MHF	150 , 20%	0.23	30.0	28.0	25.0	24.0	35.0
SL3032B-R15MHF	150 , 20%	0.20	30.0	28.0	25.0	24.0	36.0
SL3032C-R15MHF	150 , 20%	0.18	30.0	28.0	25.0	24.0	39.0
SL3032A-R20MHF	200 , 20%	0.23	21.0	20.0	17.0	16.0	35.0
SL3032B-R20MHF	200 , 20%	0.20	21.0	20.0	17.0	16.0	36.0
SL3032C-R20MHF	200 , 20%	0.18	21.0	20.0	17.0	16.0	39.0

3. Mechanical Dimension(Unit:mm):

A Max.	B Max.	C Max.	D Max.	E Nom.	F Nom.	G Nom.
6.20	6.20	8.00	7.20	2.80	3.00	1.85



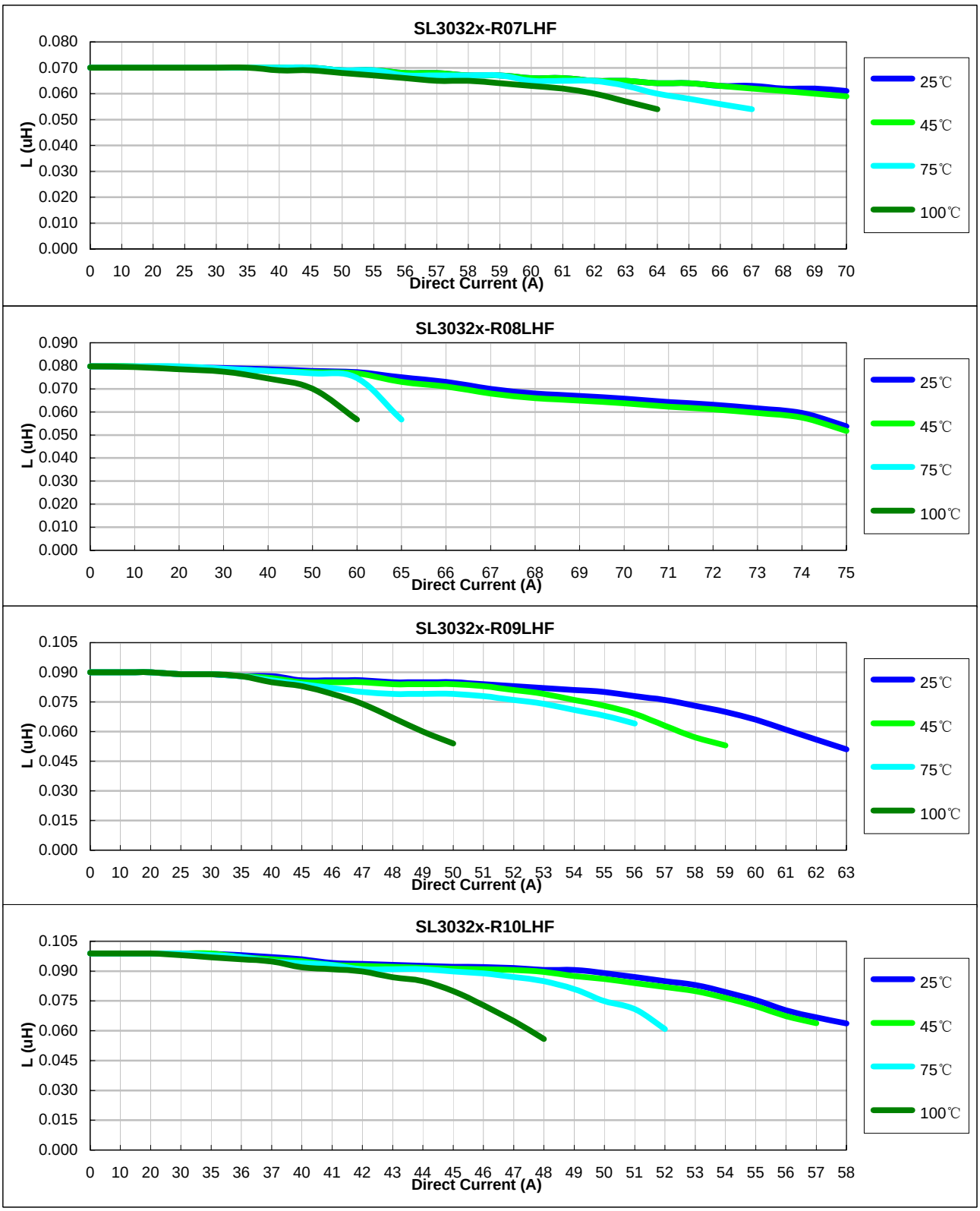
Note:

1>.Open Circuit Inductance (OCL) test condition:100KHz,0.1Vrms,0Adc ,at 25℃.
2>.Full Load Inductance (FLL) Test condition:100KHz,0.1Vrms ,Isat;(Ta=25℃).
3>.Isat[1],Isat[2],Isat[3] & Isat[4]: DC current that will cause inductance to drop approximately by 20% ;(Ta=25℃).
4>. Irms: DC current for an approximate temperature rise of 40℃ 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):

SL3032 Series

Inductance vs. Current



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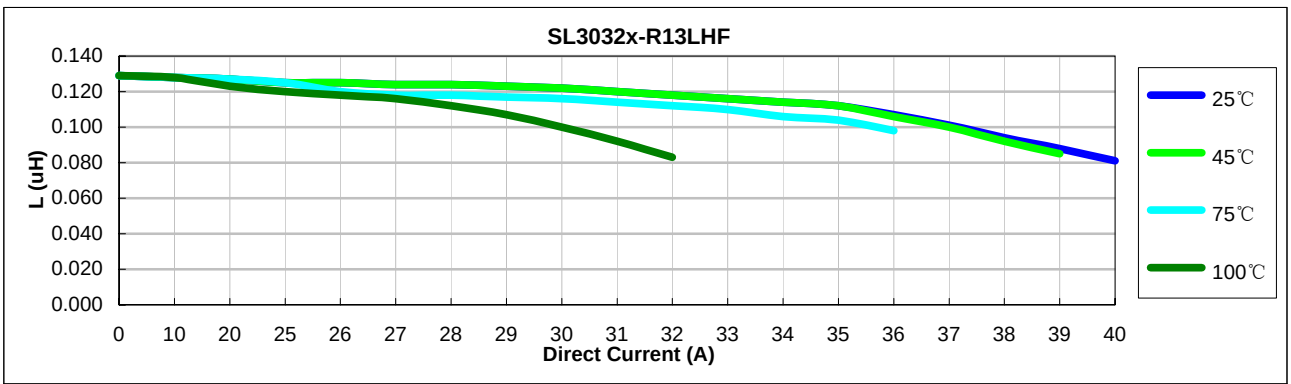
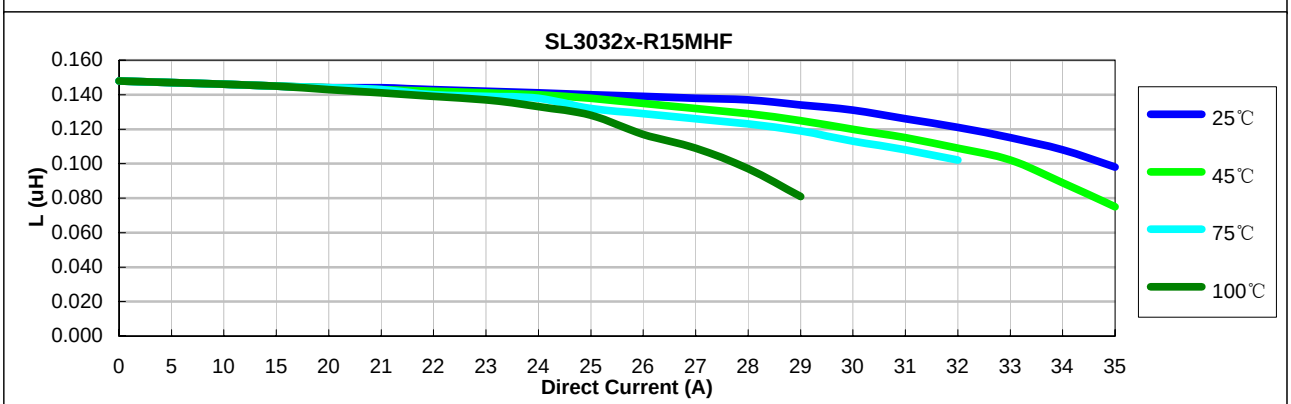
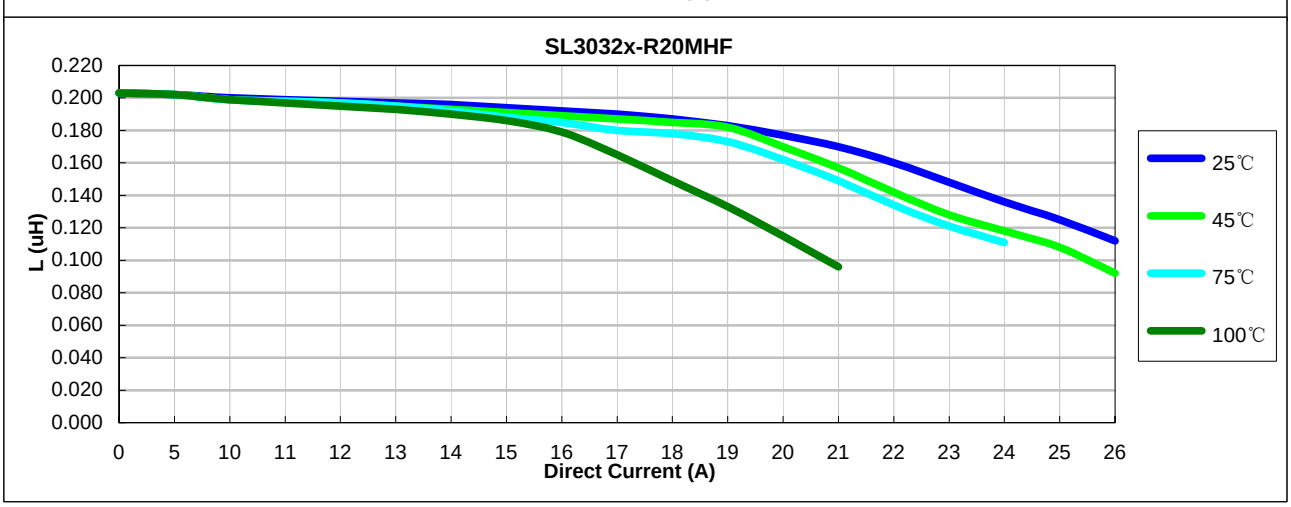
SL3032 Series

Inductance vs. Current







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