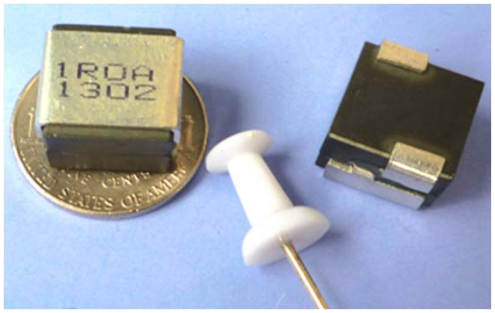
SLM534214 Series

1. Features:

- Ferrite based SMD Inductor with lower core loss.
- Inductance Range:0.625uH to 2.20uH. Custom values are welcomed.
- High current output chokes, upto 62.00 Amp. with approx. 20% roll off.
- Low Profile 10.70mm Max. height .
- Foot Print 14.50 x 13.50 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: 250 pcs , 13" Reel ;

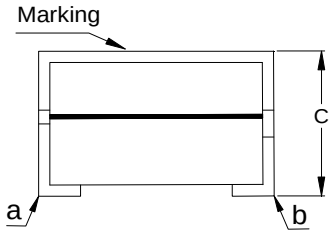


2. Electrical Characteristic of SLM534214 Series:

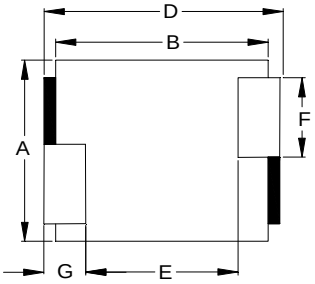
Part Number	OCL [1] (uH) ± 20%	L @ Isat1 [2] (uH) Typ.@25℃	DCR [3] (mΩ) ± 8.0%	Isat1 [4] (A) @25℃	Isat2 [4] (A) @75℃	Isat3 [4] (A) @100℃	Irms [5] (A) @25℃
SLM534214A-R62MHF	0.625	0.500	0.42	62.00	56.00	52.00	44.00
SLM534214A-R80MHF	0.800	0.640	0.42	50.00	44.00	40.00	44.00
SLM534214A-1R0MHF	1.000	0.800	0.42	40.00	33.00	30.00	44.00
SLM534214A-1R2MHF	1.200	0.960	0.42	32.00	27.00	24.00	44.00
SLM534214A-1R5MHF	1.500	1.200	0.42	25.00	20.00	18.00	44.00
SLM534214A-2R2MHF	2.200	1.760	0.42	14.00	13.00	12.00	44.00

3. Mechanical Dimension(Unit:mm):

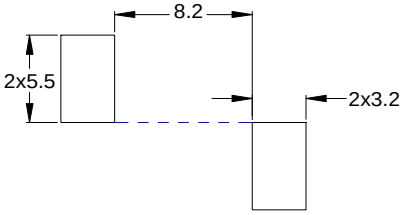
A Max.	B Max.	C Max.	D Max.	E Nom.	F Nom.	G Nom.
13.50	12.80	10.70	14.50	8.70	5.00	2.70



SIDE VIEW



BOTTOM VIEW



Suggested Pad Layout

Note:

1>.Open Circuit Inductance (OCL) test condition:100KHz,1.0Vrms,0Adc ,at 25℃.

2>.L @ Isat and L @ Irms Test condition:100KHz,1.0Vrms ; (Ta=25℃).

3>.The nominal DCR is measured from point "a" to point"b",as shown above on the mechanical drawing.

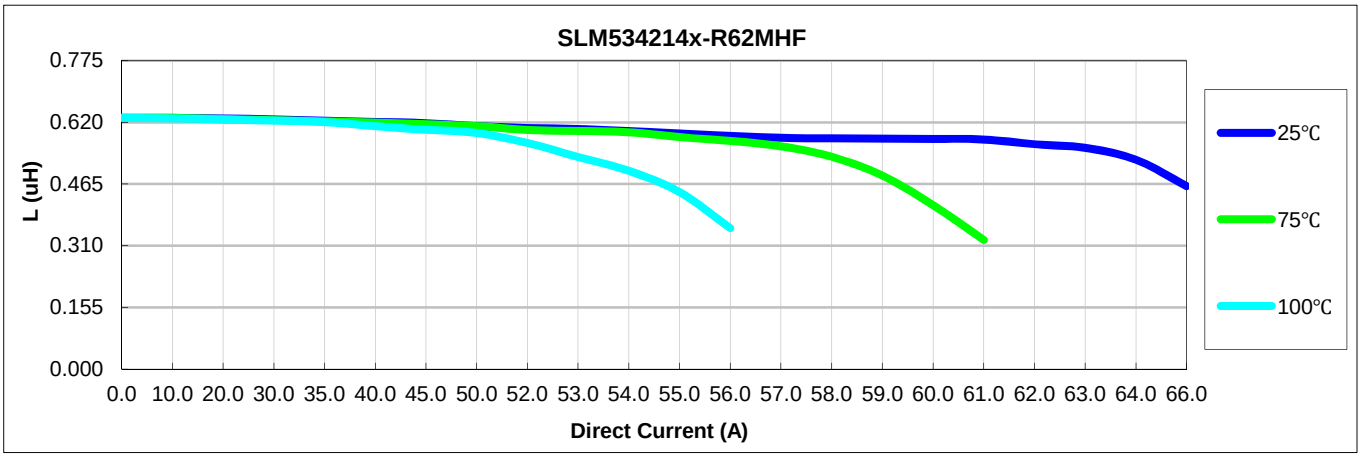
4>.Isat1,Isat2 & Isat3 : DC current that will cause inductance to drops approximately by 20% ;

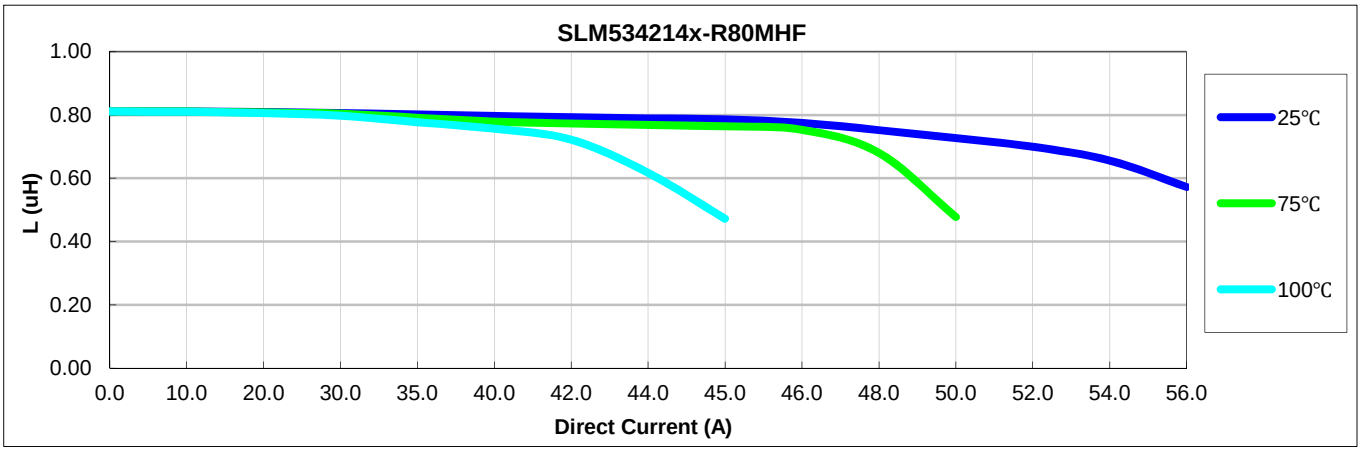
5>. Irms: DC current for an approximate temperature rise of 40℃ without core loss,.Derating is necessary for AC currents. PCB pad layout,trace thickness and width,air-flow and proximity of other heat generating components will affect the temperature rise. It is recommended the part temperature not exceed 130°C under worst case operating conditions verified in the end application.

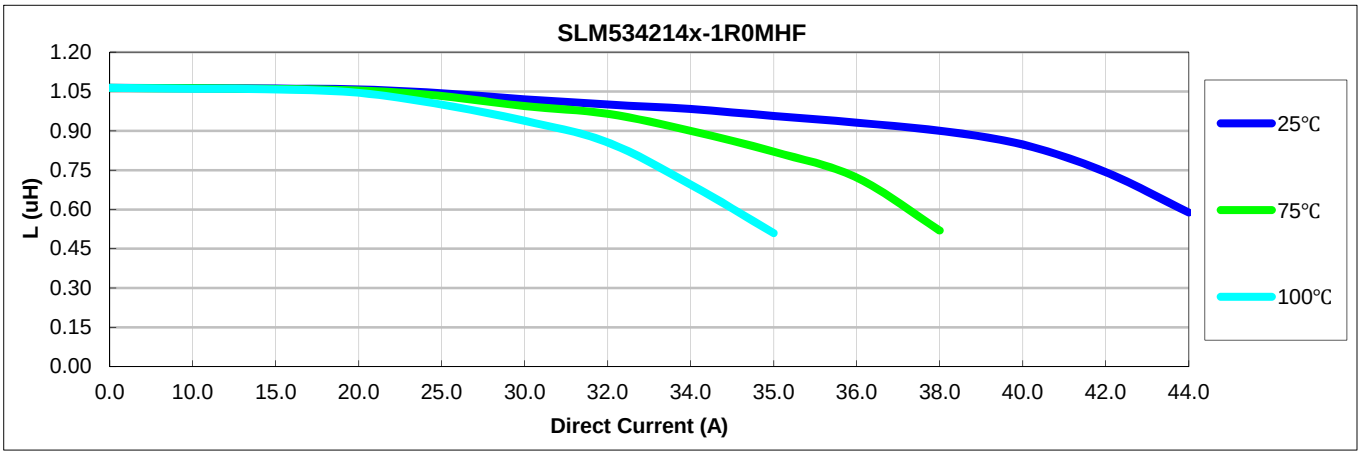
SLM534214 Series

Inductance vs. Current

4. Inductance Characteristics (Inductance vs. Current):







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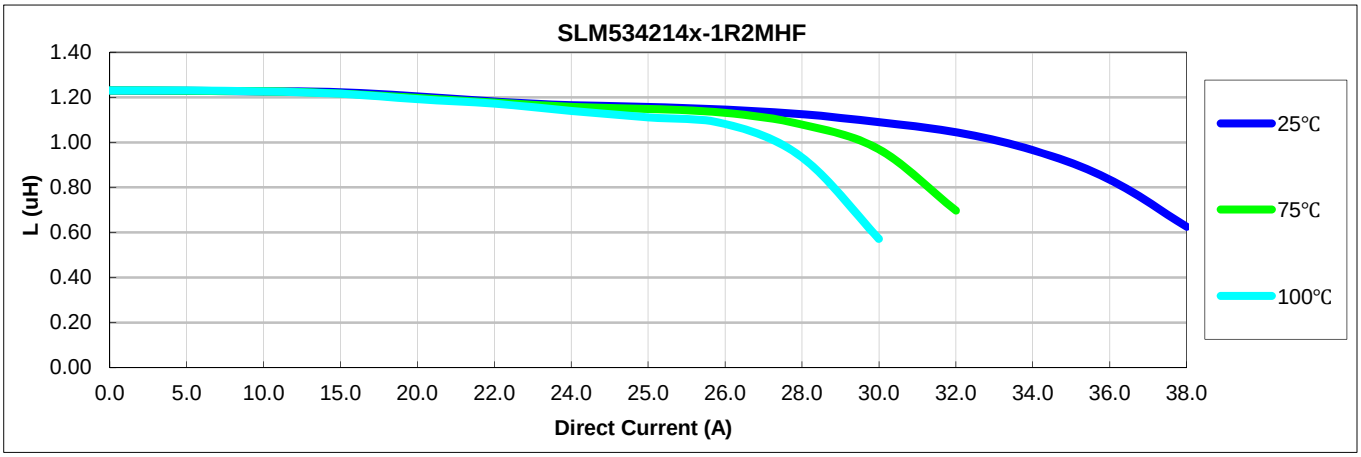
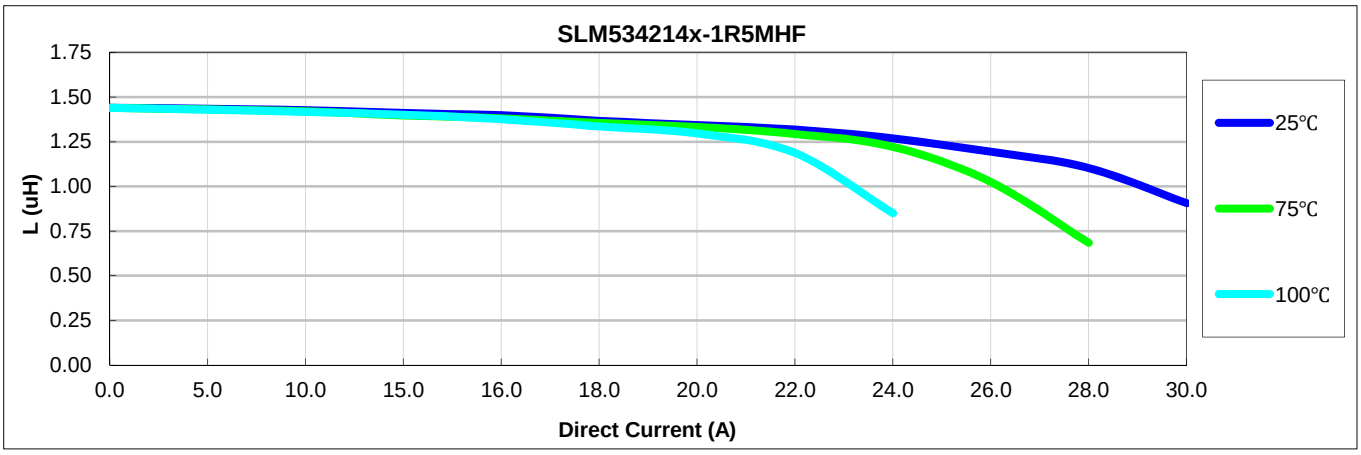
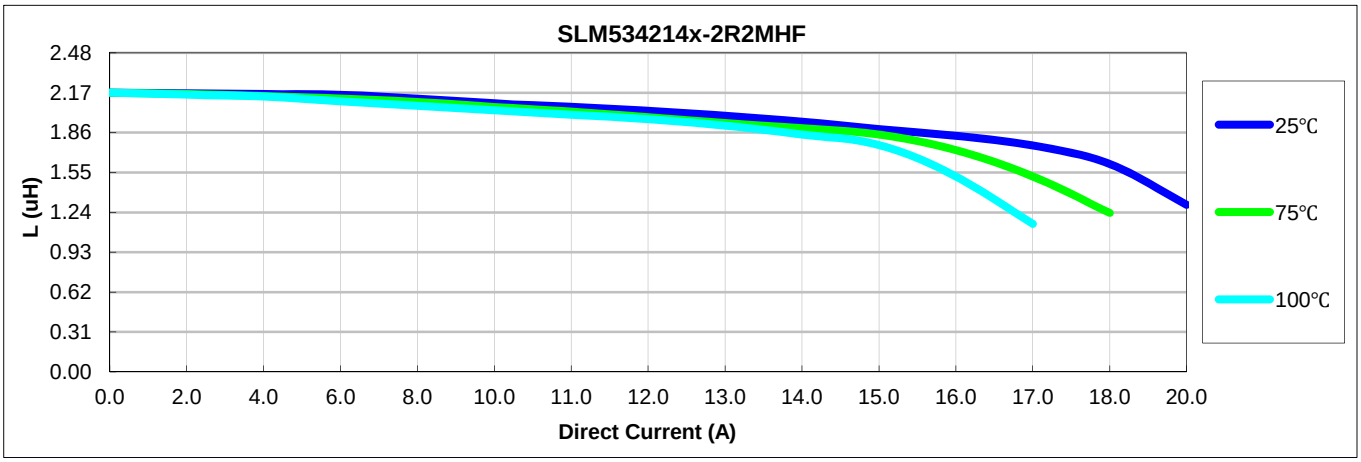
Inductance vs. Current







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