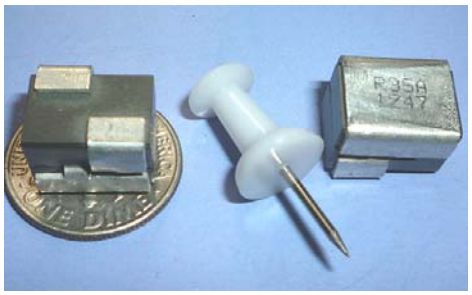
SLM463710 Series

1. Features:



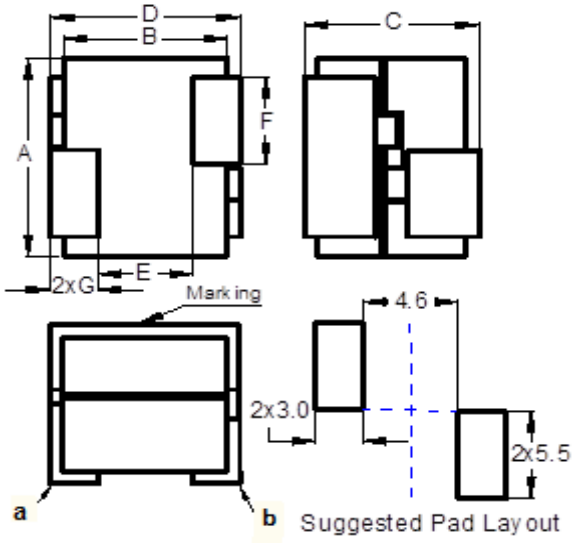
- Ferrite based SMD Inductor with lower core loss.
- Inductance Range:0.22uH to 1.00uH. Custom values are welcomed.
- High current output chokes, upto 96.0 Amp with approx. 20% roll off.
- Low Profile 9.50mm/9.80mm Max. height .
- Foot Print 10.40 x 11.70 mm Max.
- Ideal for Buck Converter, VRM & High Density Board Design.
- Operating frequency up to 1 MHz application.
- Operating Temperature Range -55°C to + 130°C , RoHs & HF compliance .
- T & R Qtys: 350 pcs , 13" Reel ;

2. Electrical Characteristic of SLM463710 Series:

Part Number	Inductance (uH) ±20%	DCR (mΩ) ± 8.0%	Isat[1] (A) @25℃	L@Isat[1] (uH) Min.@25℃	Isat[2] (A) @75℃	Isat[3] (A) @100℃	Irms (A) @25℃	Dim.C (mm) Max.
SLM463710A-R22MHF	0.220	0.350	96.00	0.141	87.00	80.00	40.00	9.80
SLM463710A-R35MHF	0.350	0.350	65.00	0.224	60.00	56.00	40.00	9.50
SLM463710A-R45MHF	0.450	0.350	51.00	0.288	47.00	42.00	40.00	9.50
SLM463710A-R52MHF	0.525	0.350	41.00	0.336	38.00	33.00	40.00	9.50
SLM463710A-R60MHF	0.600	0.350	37.00	0.384	34.00	31.00	40.00	9.50
SLM463710A-1R0MHF	1.000	0.350	19.00	0.640	18.00	16.00	40.00	9.50

3. Mechanical Dimension(Unit:mm):

A Max.	B Max.	C Max.	D Max.	E Nom.	F Nom.	G Nom.
11.70	8.70	See table above	10.40	5.10	5.00	2.50



Note:

1>.Open Circuit Inductance (OCL) test condition:100KHz,1.0Vrms,0Adc ,at 25 ℃.
2>.Full Load Inductance (FLL) Test condition:100KHz,1.0Vrms ,Isat ;(Ta=25 ℃).
3>.Isat[1],Isat[2]&Isat[3]: DC current that will cause inductance to drops approximately by 20% ;
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 vs. Current Characteristics (shown on the following two pages):

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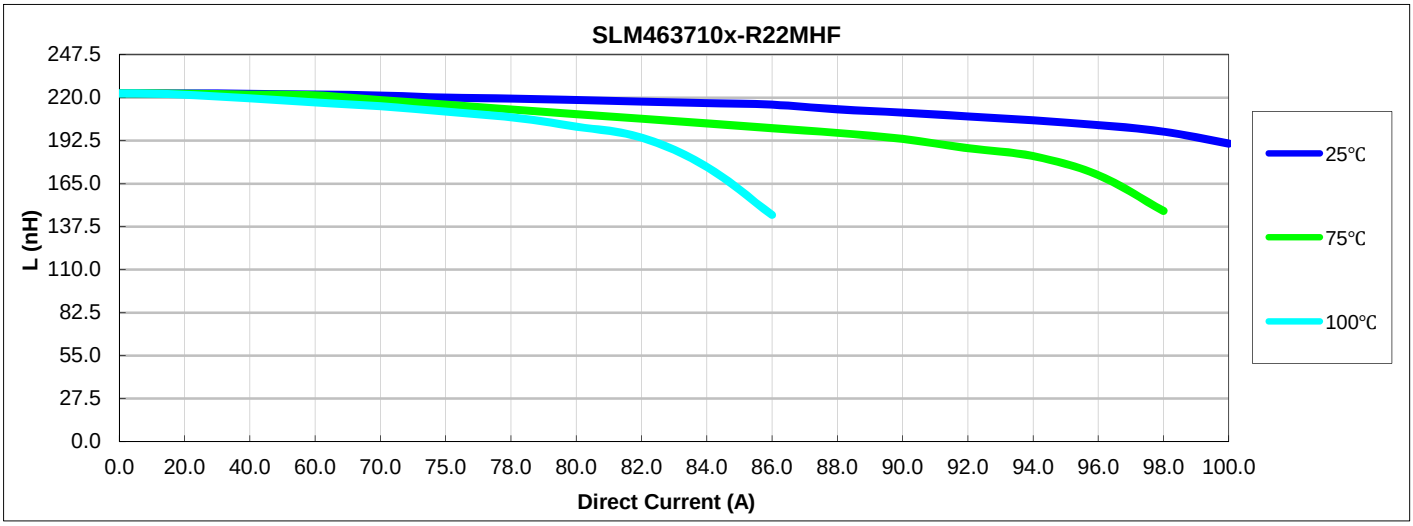
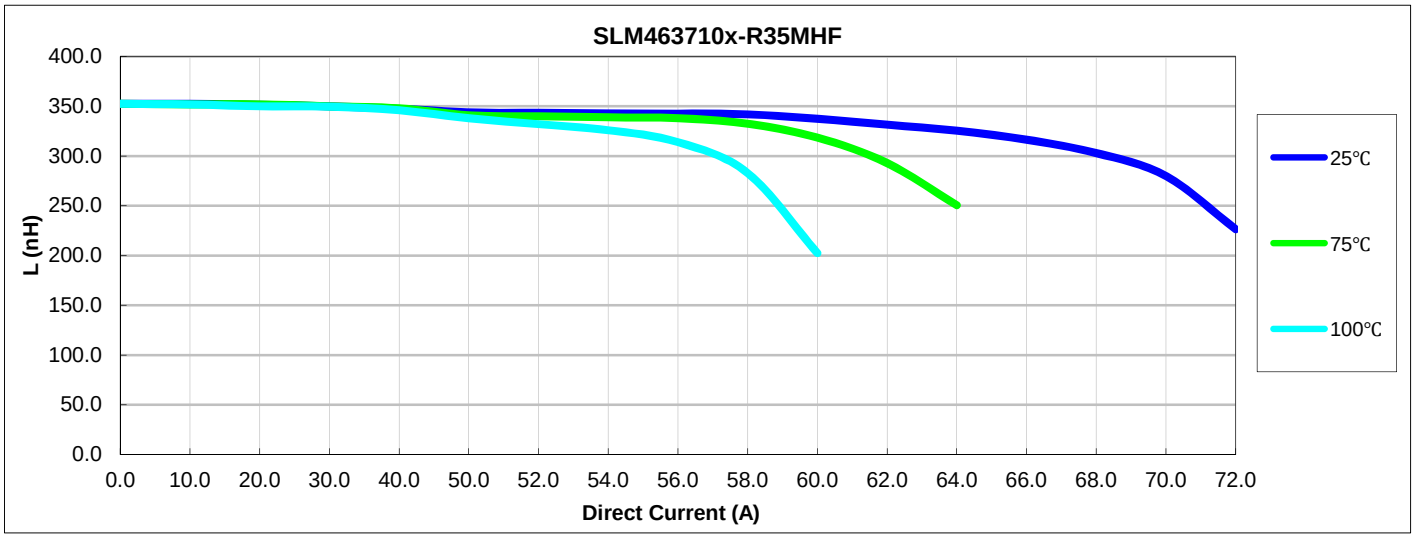
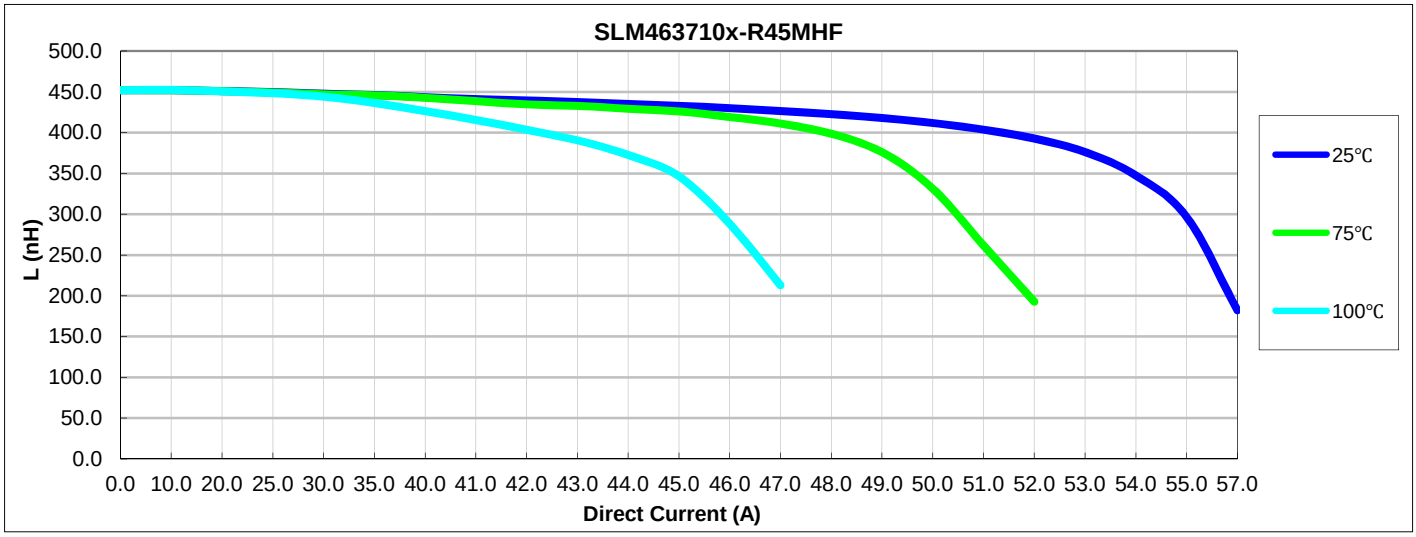
Inductance vs. Current







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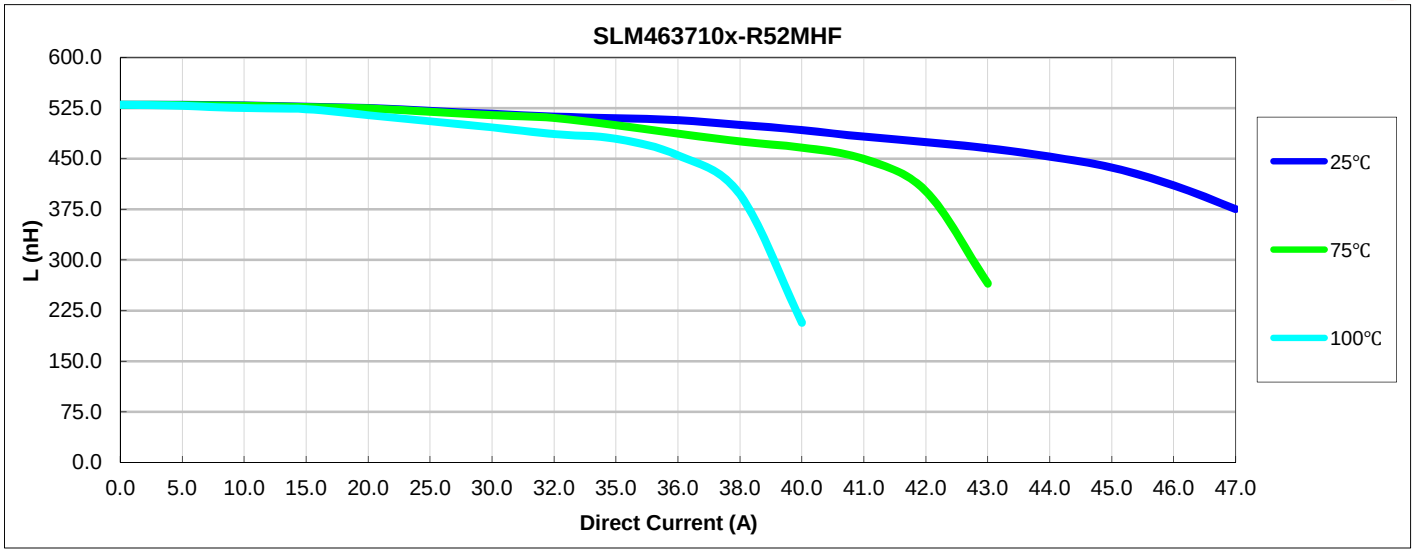
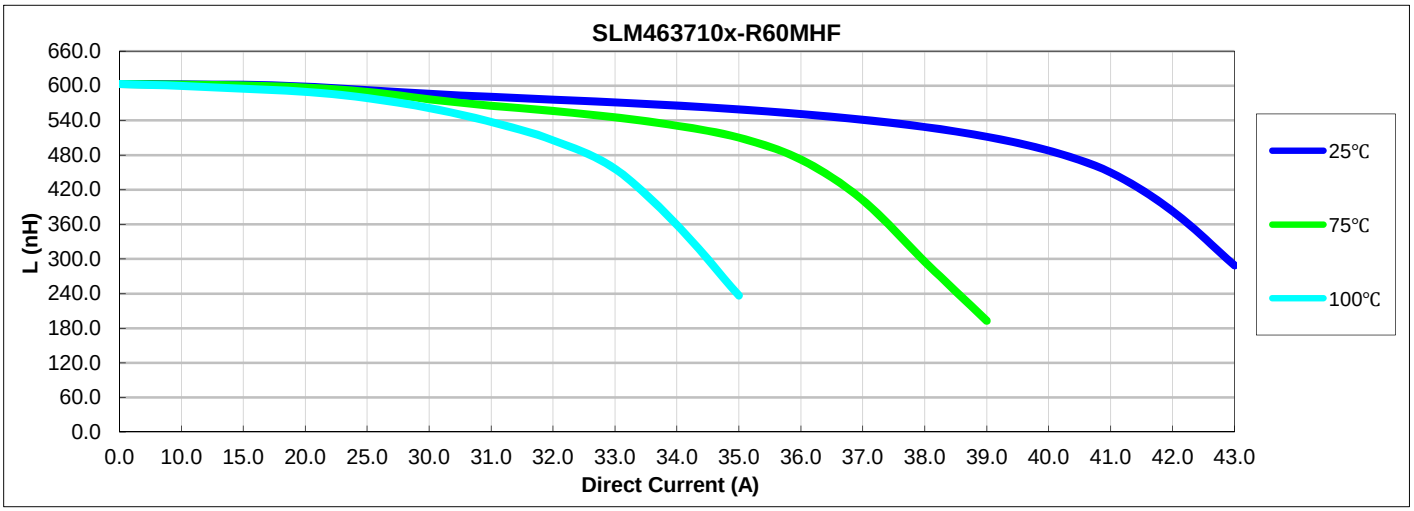
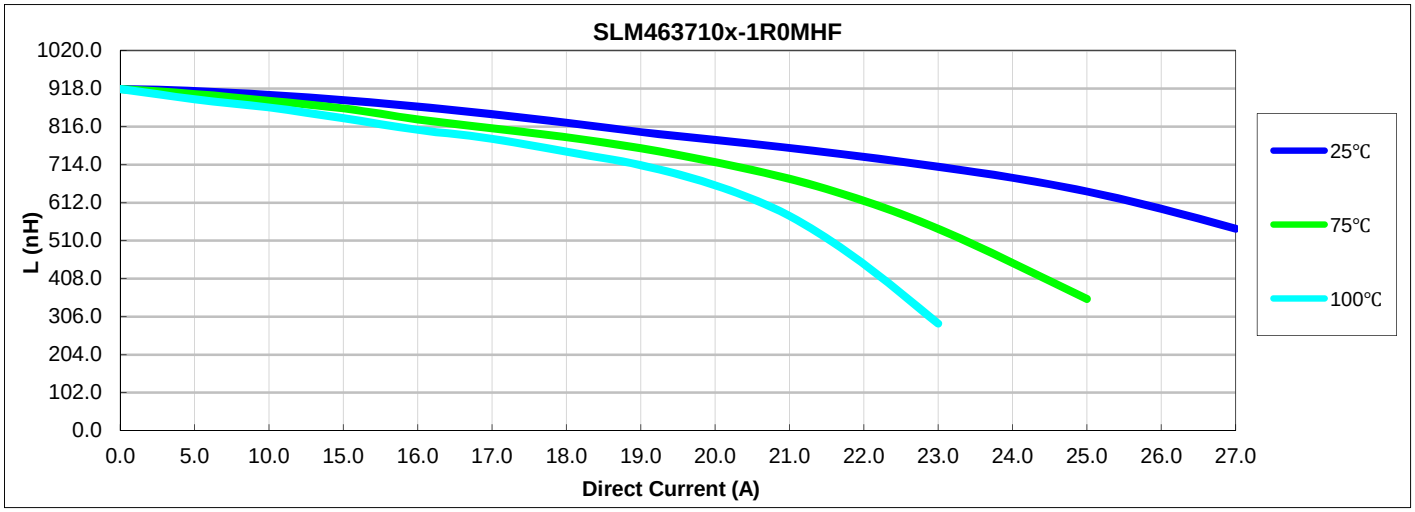
Inductance vs. Current







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