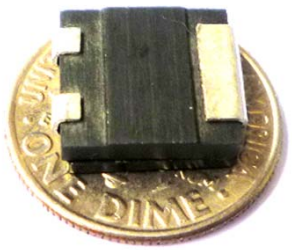
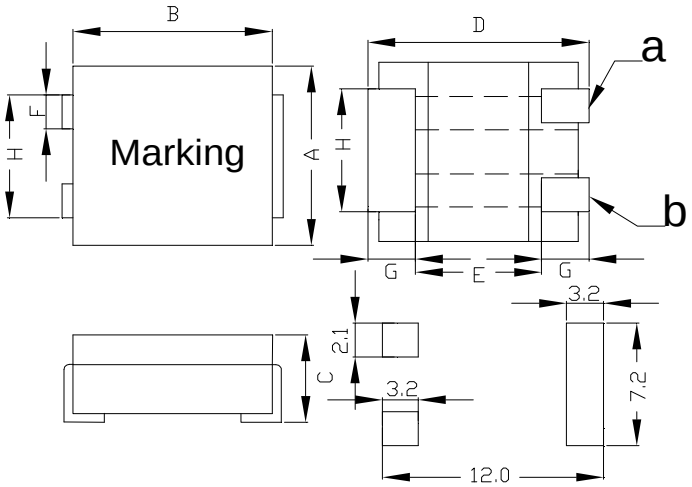
SLA4716 Series

1. Features:

· Ferrite based SMD Inductor with lower core loss.
· Inductance Range:360nH to 600nH. Custom values are welcomed.
· High current output chokes, upto 37 Amp with approx. 20% roll off.
· Low Profile 4.2mm Max. height .
· Foot Print 12.0 x 10.4 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 ;





Suggested PAD Layout

2. Mechanical Dimension(Unit:mm):

A (Max.)	B (Max.)	C (Max.)	D (Max.)	E (Nom.)	F (Nom.)	G (Nom.)	H (Nom.)
10.40	10.80	4.20	12.00	6.50	1.50	2.54	6.60

3. Electrical Characteristic of SLA4716 Series:

Part Number	Inductance (nH) ± 15%	DCR (mΩ) ± 7%	Isat[1] (A) @25℃	L@Isat[1] (nH) Typical	Isat[2] (A) @100℃	Isat[3] (A) @125℃	Irms (A) @25℃
SLA4716A-R36LHF	360	1.0	37.0	306.0	31.0	29.0	27.0
SLA4716A-R56LHF	560	1.0	23.0	476.0	18.5	16.5	27.0
SLA4716A-R60LHF	600	1.0	21.0	510.0	17.5	16.0	27.0

Note:

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

2>.Full Load Inductance (FLL) Test condition:100KHz,1.0Vrms ,Isat.

3>.Isat[1],Isat[2] & Isat[3]: DC current that will cause inductance to drop 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.

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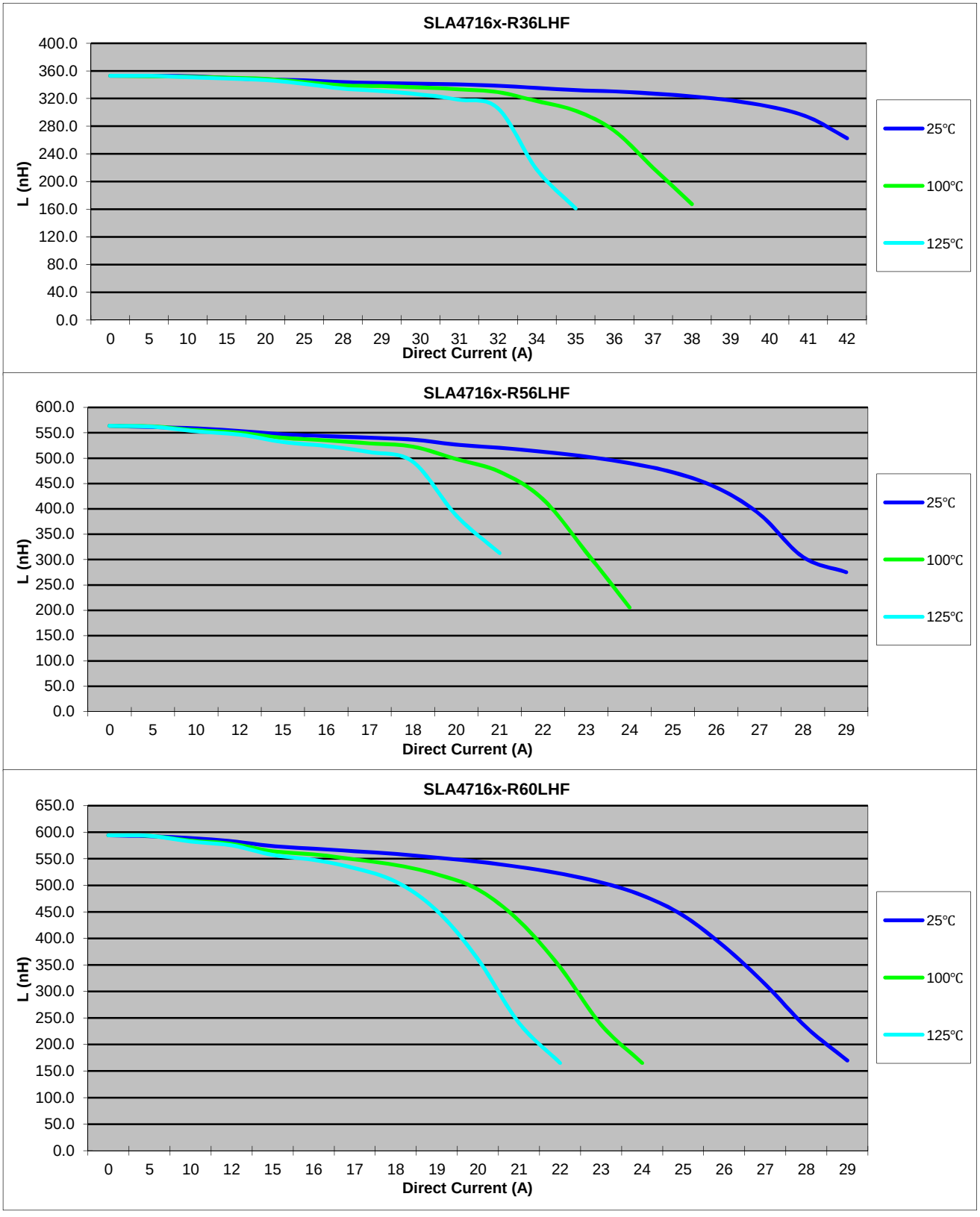
Inductance vs. Current



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