

1. Features of SLA47436A Series :

- Ferrite based SMD inductor with lower core loss.
- Inductance Range: 70.0nH to 170.0nH, Custom values are welcomed.
- High current output chokes, up to 165.0 Amp with approx. 20% roll off.
- Low Profile 11.0 mm Max. height .
- Foot Print 12.00 x 6.00 mm .
- Co-Layout Single Inductor for AHA47436A Series of TLVR Inductor.
- Operating frequency up to 5.0 MHz application.
- Operating Temperature Range -55 °C to + 130 °C, RoHs & HF compliance .
- T & R Qtys: 450 pcs , 13" Reel ;

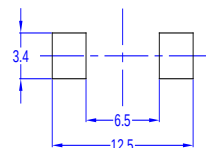
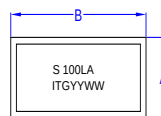


2. Electrical Characteristic of SLA47436A Series:

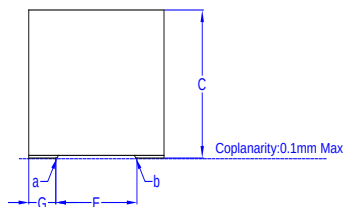
ITG Part Number	OCL ¹ (nH) ± 15%	L @ Isat1 ² (nH) Min.	DCR ³ (mΩ) ± 10%	Isat1 ⁴ (A) @25°C	Isat2 ⁴ (A) @75°C	Isat3 ⁴ (A) @100°C	Irms ⁵ (A) @25°C
SLA47436A-70L	70.00	50.40	0.125	165.00	150.00	135.00	79.00
SLA47436A-80L	80.00	57.60	0.125	145.00	133.00	120.00	79.00
SLA47436A-100L	100.00	72.00	0.125	116.00	106.00	96.00	79.00
SLA47436A-120L	120.00	86.40	0.125	102.00	94.00	84.00	79.00
SLA47436A-150L	150.00	108.00	0.125	85.00	80.00	75.00	79.00
SLA47436A-170L	170.00	122.40	0.125	74.00	67.00	61.00	79.00

3. Mechanical Dimension(Unit : mm):

A	B	C	E	F	G
Max.	Max.	Max.	± 0.20	± 0.20	± 0.20
6.00	12.00	11.00	7.00	2.80	2.40



Suggested Pad Layout



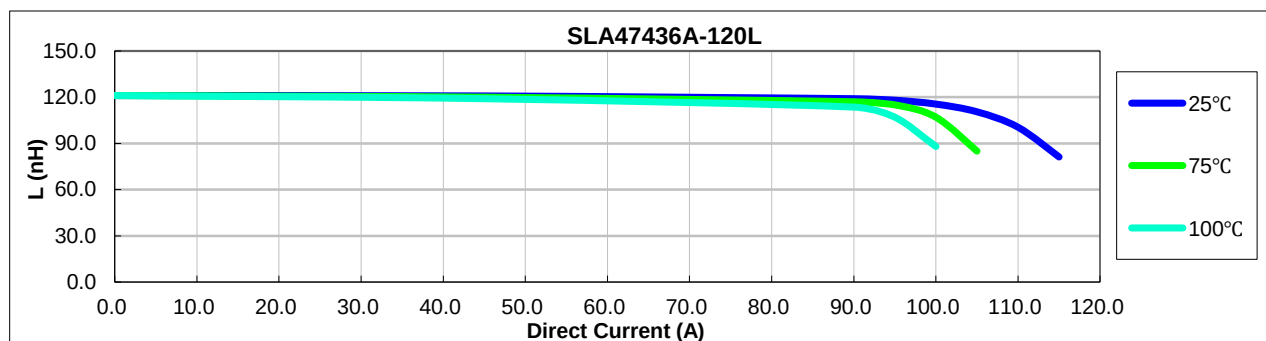
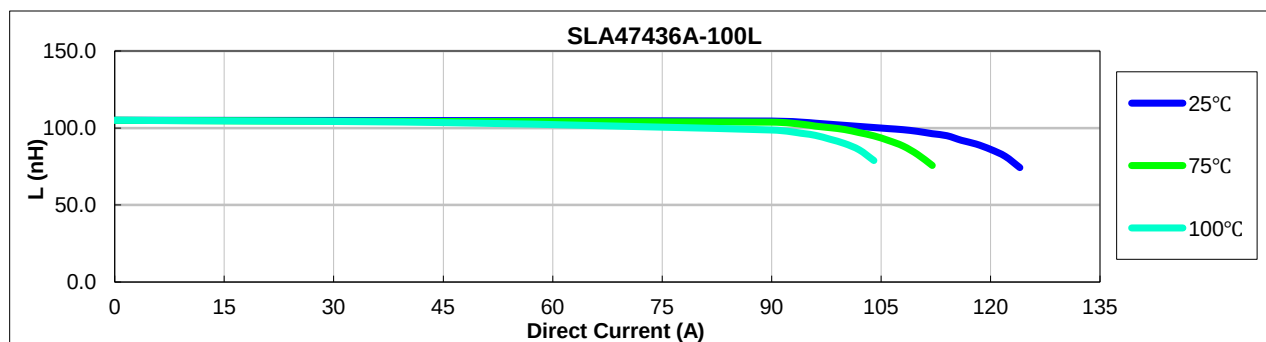
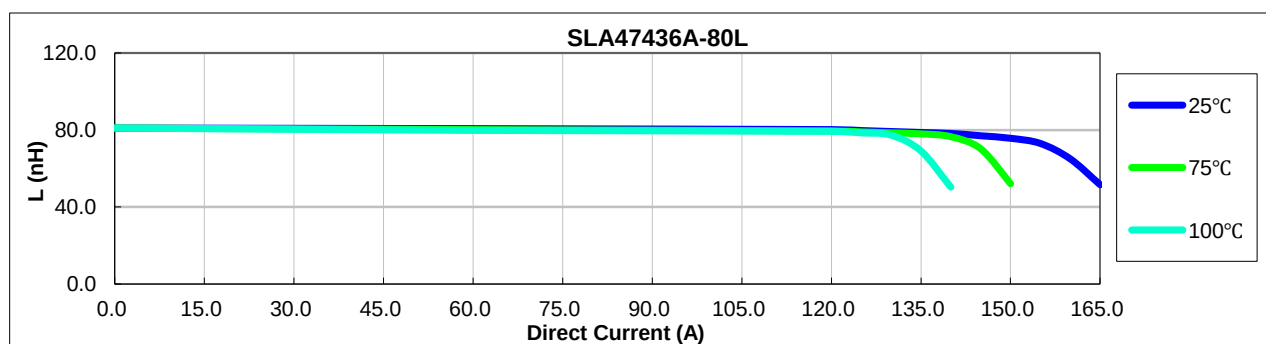
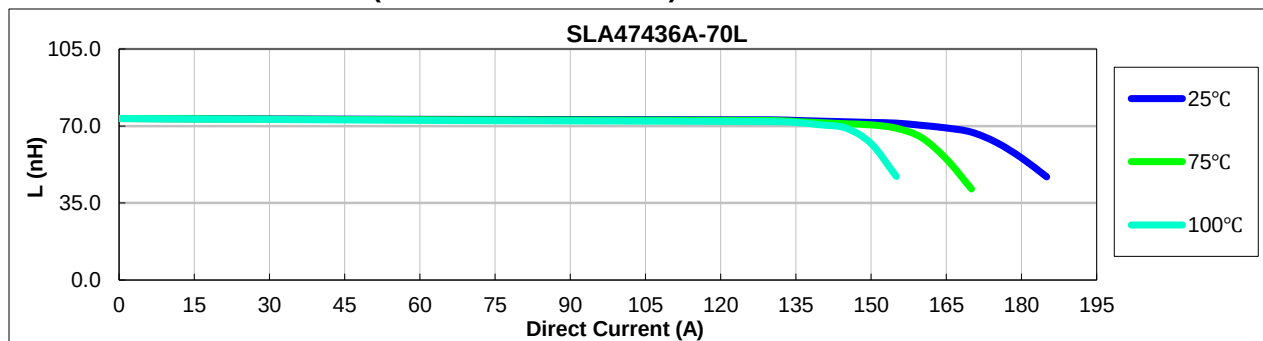
Notes:

1. Open Circuit Inductance (OCL) test condition:500KHz,0.25Vrms,0A_{dc} ,at 25 °C.
2. L @ Isat and L @ Irms Test condition:500KHz,0.25Vrms (Ta=25 °C).
3. The nominal DCR is measured from point "a" to point "b", as shown above on the mechanical drawing (Ta=25°C).
4. Isat1,Isat2 & Isat3 : DC current that will cause inductance to drop approximately by 20%.
5. Irms: 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.

Third Angle Projection:



4. Inductance Characteristics (Inductance vs. Current):



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