L101247A Series

1. Features of L101247A Series :

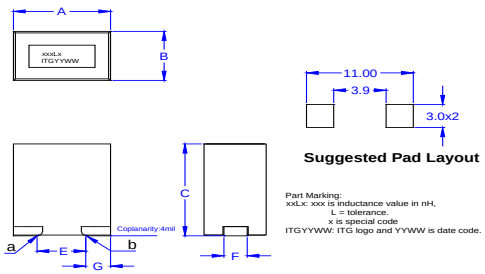
- Ferrite based SMD inductor with lower core loss.
- Inductance Range: 70.0nH to 330.0nH, Custom values are welcomed.
- High current output chokes, up to 180.0 Amp with approx. 20% roll off.
- Low Profile 12.00 mm Max. height .
- Foot Print 10.00 x 6.40 mm .
- Perfect for high density designs with limited board space.
- Operating frequency up to 5.0 MHz application.
- Operating Temperature Range -55° C to + 130° C , RoHs & HF compliance .
- T & R Qtys: 300 pcs , 13" Reel ;

2. Electrical Characteristic of L101247A Series:

ITG Part Number	OCL [1] (nH) ±15%	L @ Isat1 [2] (nH) Min.	DCR [3] (mΩ) ±10%	Isat1 [4] (A) @25℃	Isat2 [4] (A) @75℃	Isat3 [4] (A) @100℃	Irms [5] (A) @25℃
L101247A-70L	70.00	49.00	0.125	180.00	175.00	170.00	78.00
L101247A-80L	80.00	56.00	0.125	155.00	143.00	137.00	78.00
L101247A-100L	100.00	70.00	0.125	129.00	115.00	110.00	78.00
L101247A-110L	110.00	77.00	0.125	125.00	110.00	105.00	78.00
L101247A-120L	120.00	84.00	0.125	107.00	97.00	92.00	78.00
L101247A-135L	135.00	94.00	0.125	95.00	86.00	81.00	78.00
L101247A-150L	150.00	105.00	0.125	84.00	76.00	71.00	78.00
L101247A-220L	220.00	154.00	0.125	68.00	62.00	56.00	78.00
L101247A-250L	250.00	175.00	0.125	50.00	46.00	44.00	78.00
L101247A-300L	300.00	210.00	0.125	44.00	42.00	37.00	78.00
L101247A-330L	330.00	231.00	0.125	36.00	33.00	30.00	78.00

3. Mechanical Dimension(Unit : mm):

A Max.	B Max.	C Max.	E ± 0.30	F ± 0.20	G ± 0.20
10.00	6.40	12.00	5.00	2.50	2.40



Notes:

Third Angle Projection:

1. Open Circuit Inductance (OCL) test condition:500KHz,0.25Vrms,0Adc ,at 25 ℃.
2. L @ Isat and L @ Irms Test condition:500KHz,0.25Vrms (Ta=25 ℃).
3. The nominal DCR is measured from point "a" and "a'" to point "b" and " b", as shown above on the mechanical drawing (Ta=25℃).
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℃ 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 ℃ under worst case operating conditions verified in the end application.

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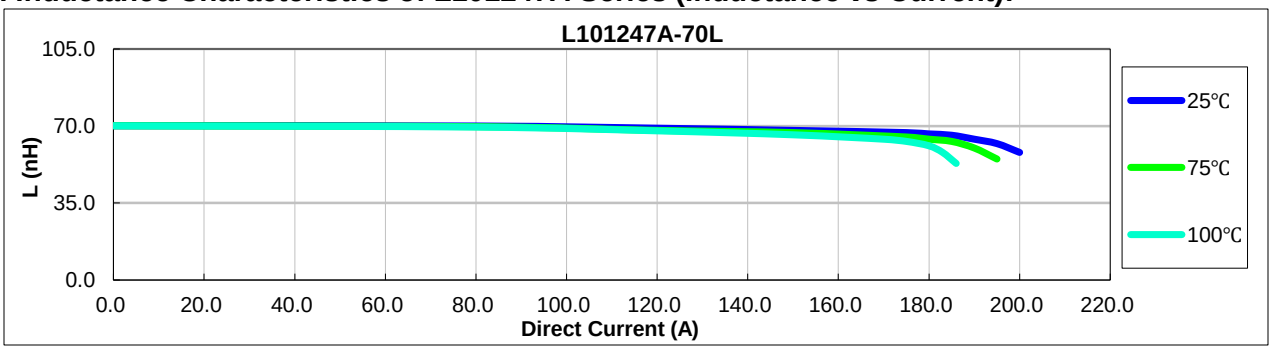
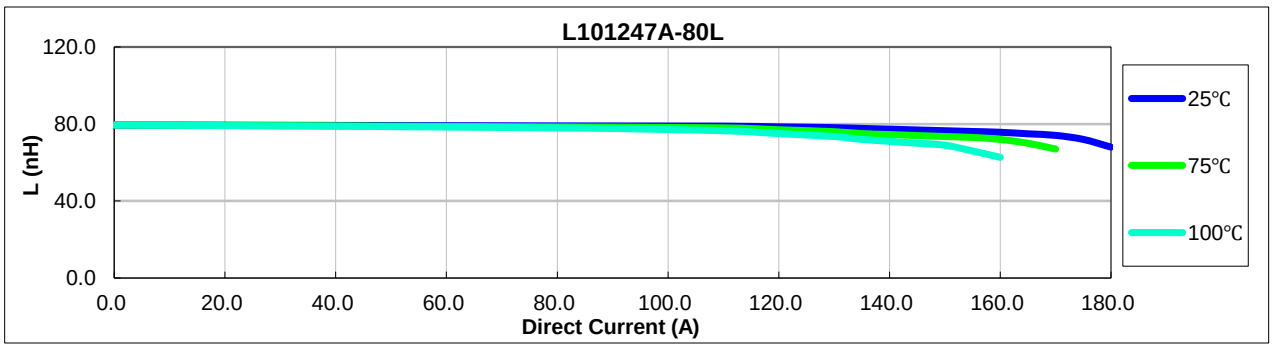
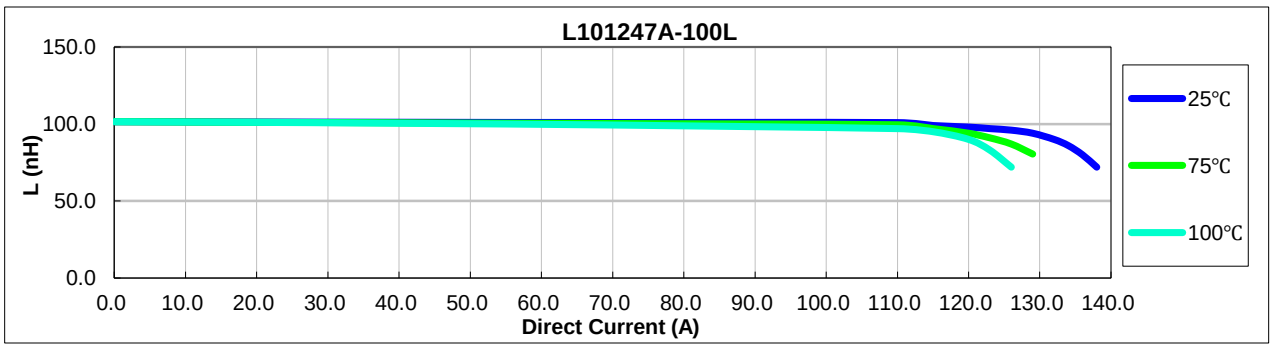
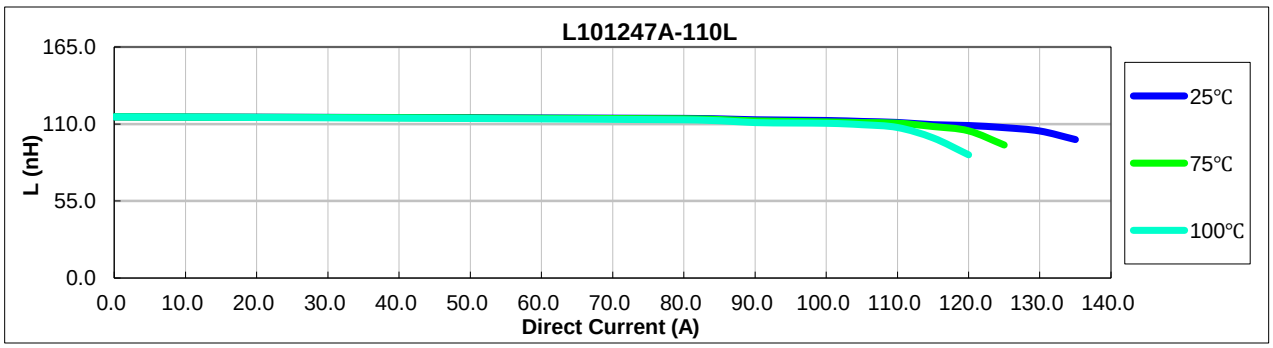
4. Inductance Characteristics of L101247A Series (Inductance vs Current):









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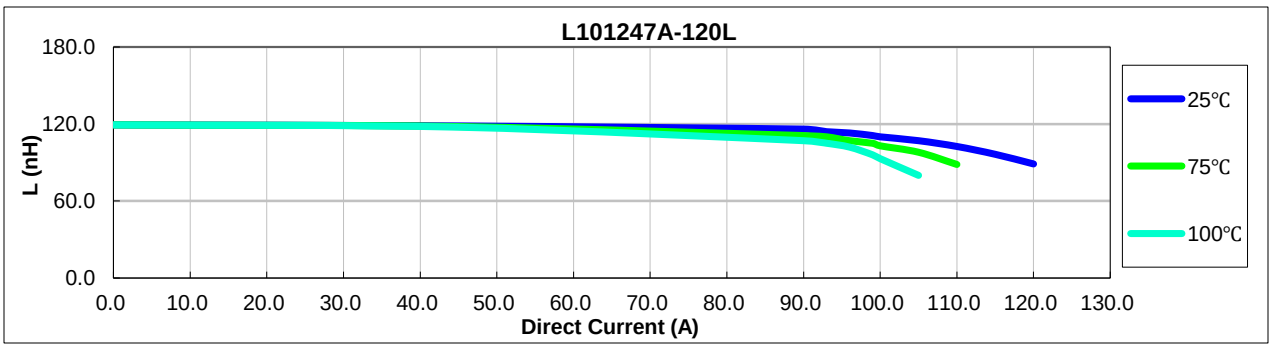

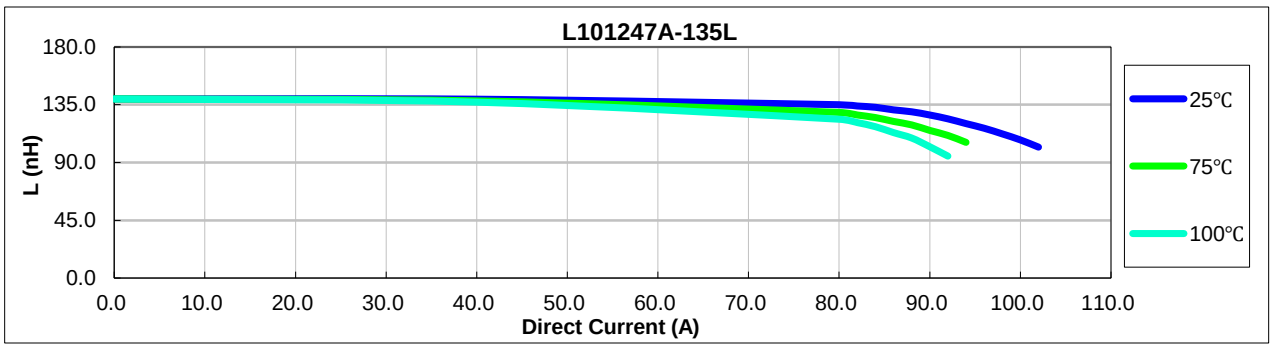

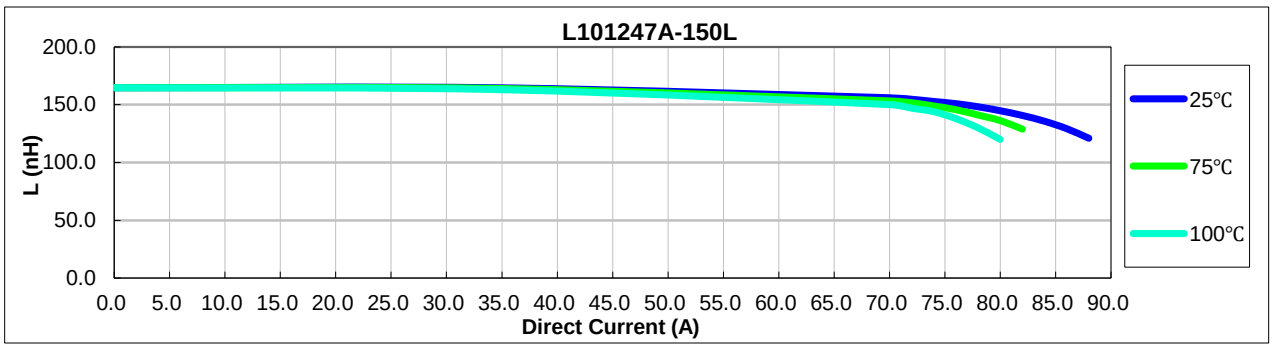

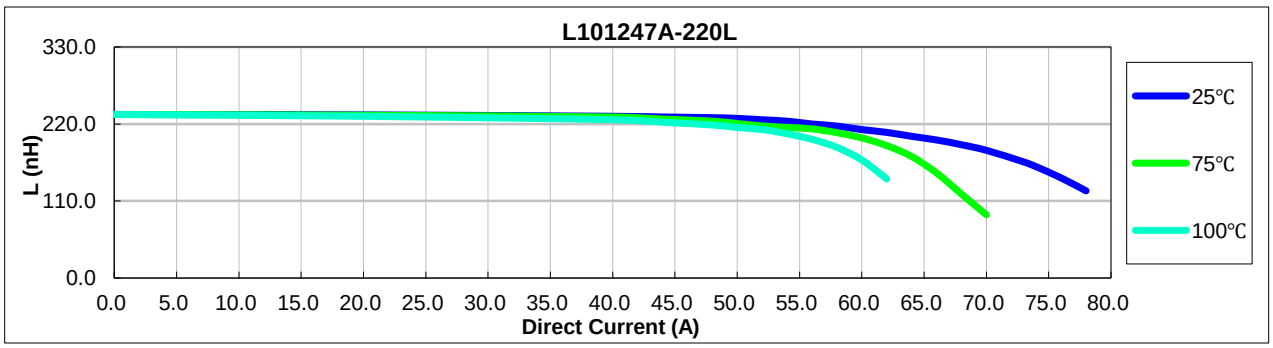

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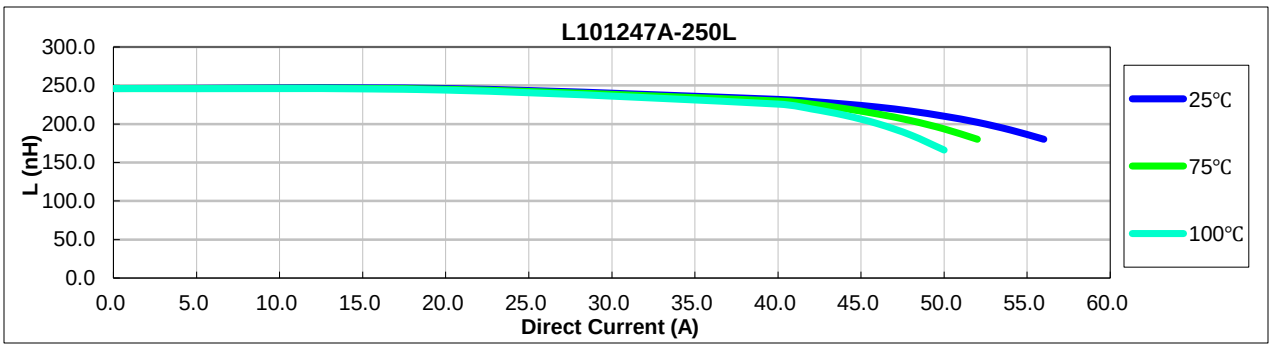

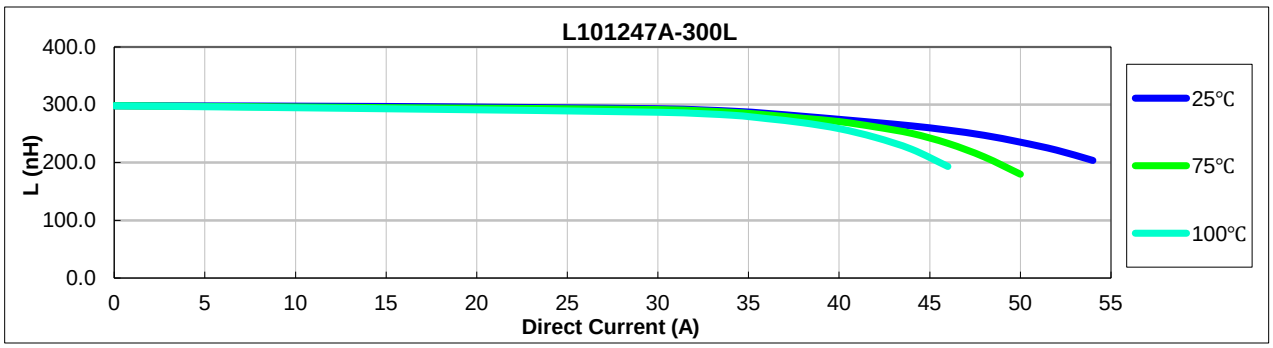

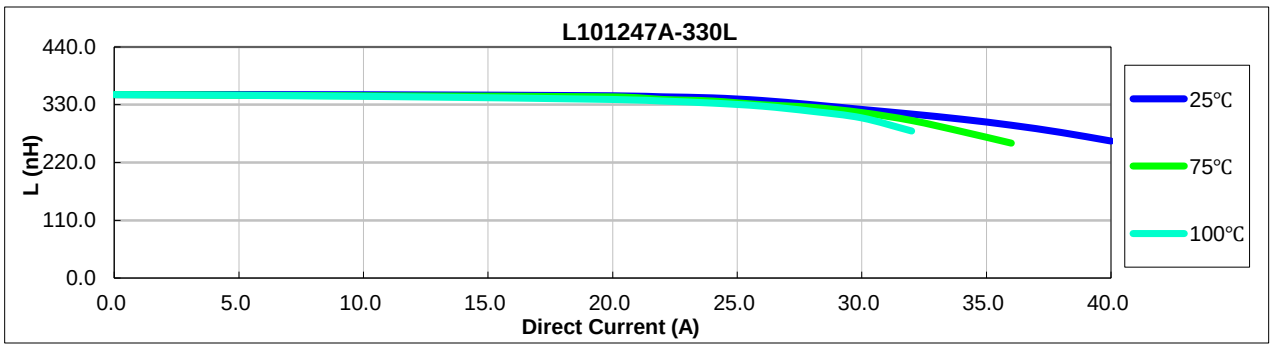

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