

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 Qty: 300 pcs , 13" Reel ;

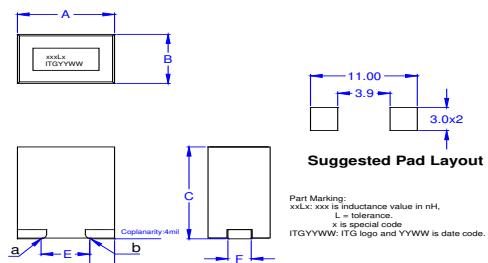


2. Electrical Characteristic of L101247A Series:

ITG Part Number	OCL ¹ (nH) ± 15%	L @ Isat1 ² (nH) Min.	DCR ³ (mΩ) ± 10%	Isat1 ⁴ (A) @25°C	Isat2 ⁴ (A) @75°C	Isat3 ⁴ (A) @100°C	Irms ⁵ (A) @25°C
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

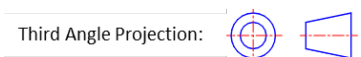
3. Mechanical Dimension(Unit : mm):

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



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" and "a" to point "b" and "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.

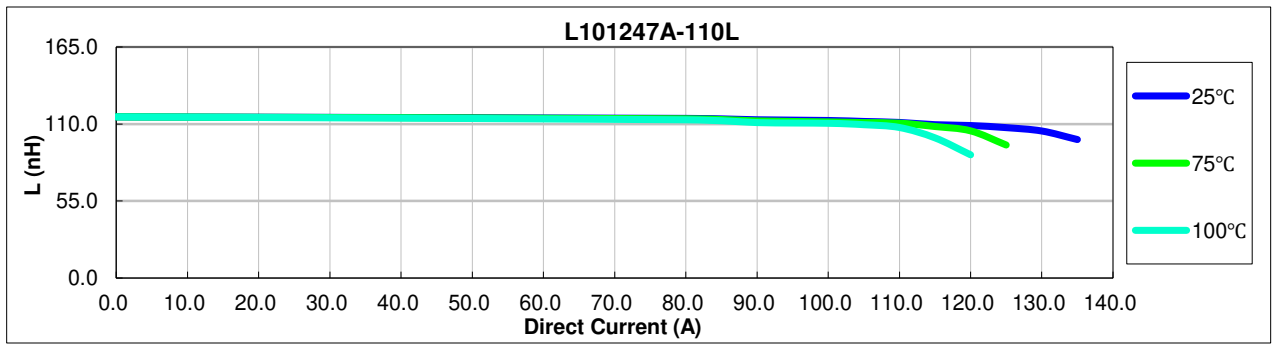
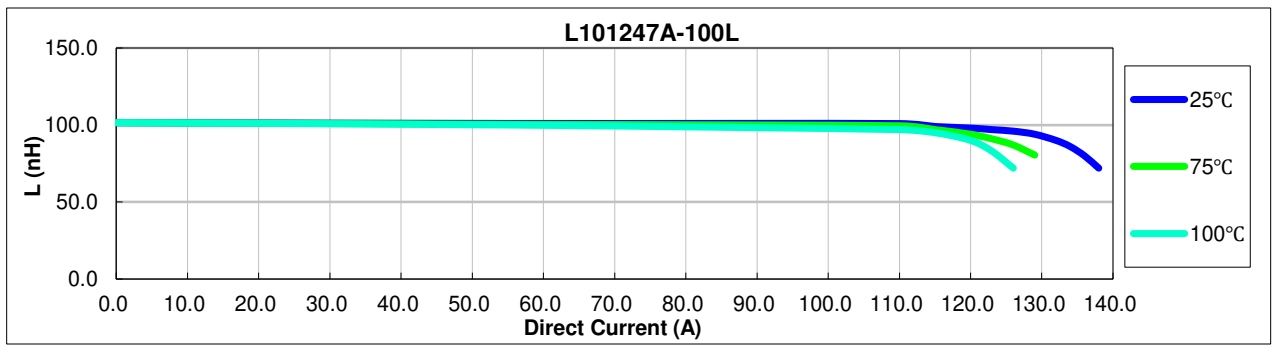
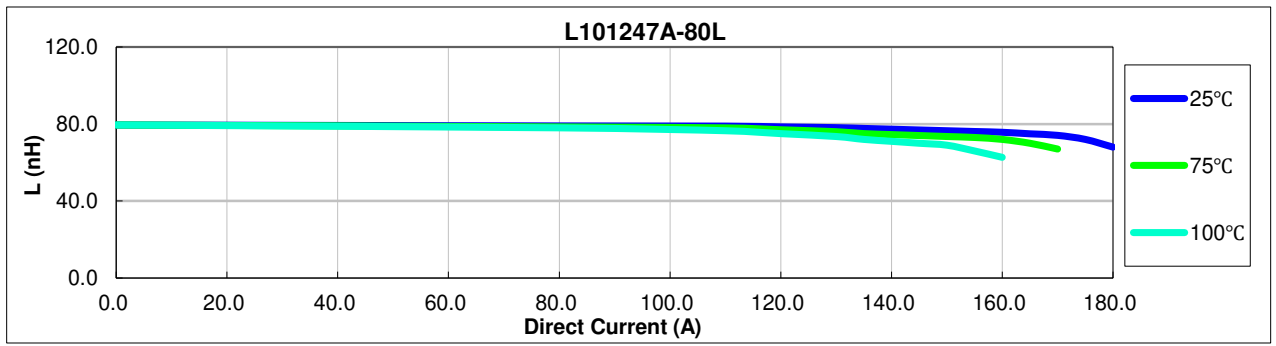
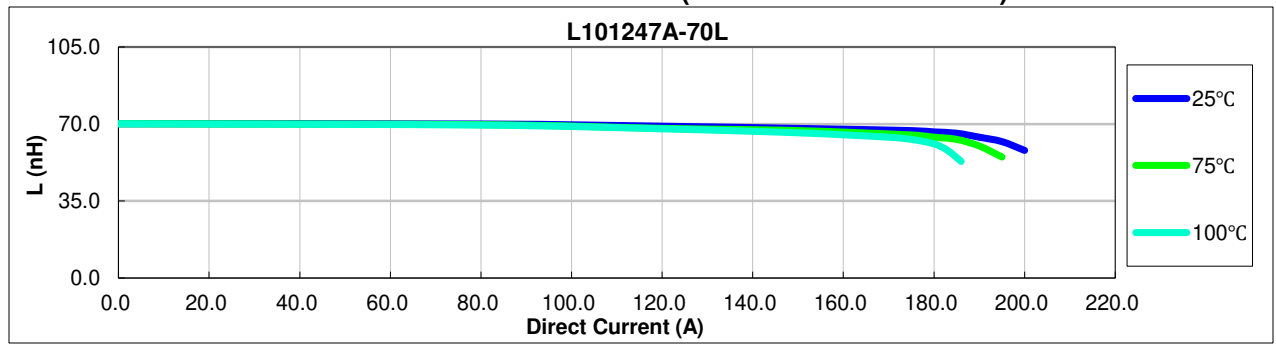




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4. Inductance Characteristics of L101247A Series (Inductance vs Current):

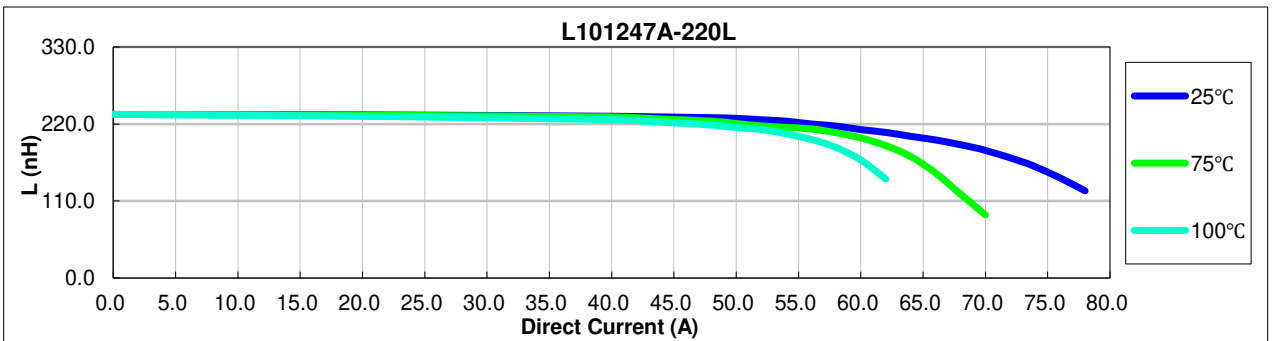
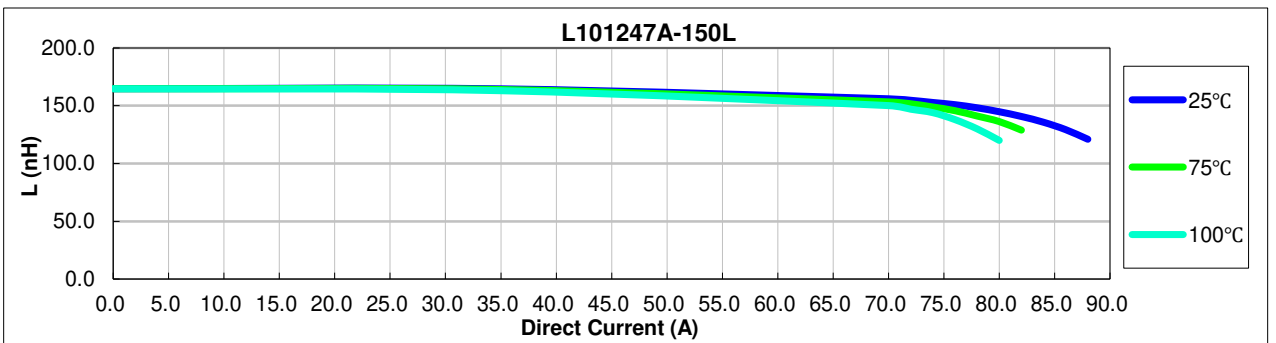
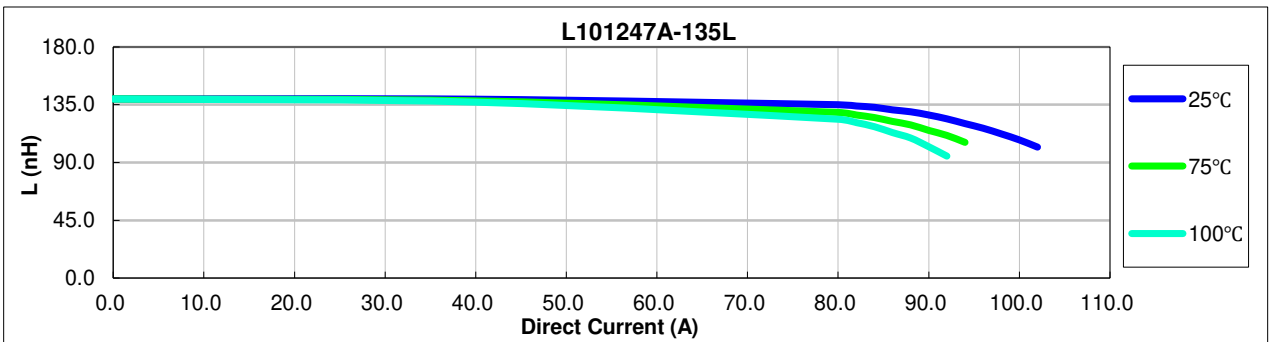
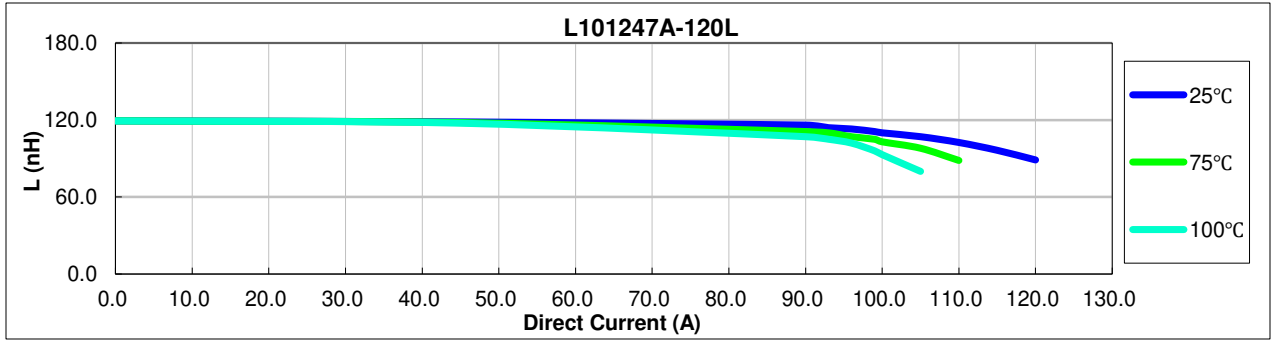


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*Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.



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