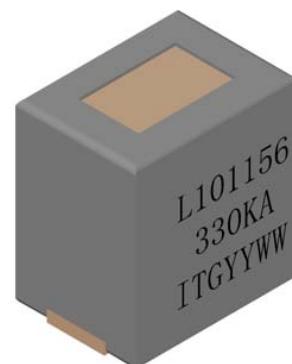




L101156 Series



1. Features of L101156 Series:

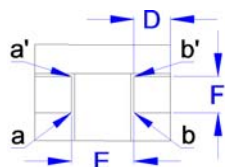
- Ferrite based SMD inductor with lower core loss.
- Inductance Range: 150.0 nH to 330.0 nH, custom values are welcomed
- High current output chokes, up to 94.0 Amp with approx. 20% roll off.
- Low profile 10.0 mm max height.
- Foot Print 10.60 x 7.30 mm max.
- Ideal for Buck Converter, VRM and High Density Board Designs.
- Operating frequency of up to 1.0MHz.
- Operating temperature range of -55°C to + 130°C
- T & R Qty's: 400pcs, 13" Reel. RoHS & HF compliant.

2. Electrical Characteristics of L101156 Series:

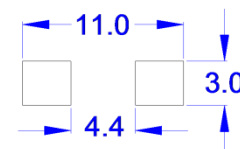
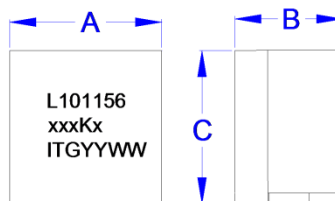
ITG Part Number	OCL ¹ (nH) ± 10%	L @ Isat1 ² (nH) Min.	DCR ³ (mΩ) ± 5%	Isat1 ⁴ (A) @25°C	Isat2 ⁴ (A) @75°C	Isat3 ⁴ (A) @100°C	Irms ⁵ (A) @25°C
L101156A-150K	150.00	105.00	0.40	94.00	84.00	78.00	44.00
L101156A-180K	180.00	126.00	0.40	77.00	70.00	66.00	44.00
L101156A-220K	220.00	154.00	0.40	64.00	56.00	53.00	44.00
L101156A-270K	270.00	189.00	0.40	52.00	46.00	43.00	44.00
L101156A-330K	330.00	231.00	0.40	42.00	38.00	35.00	44.00

3. Mechanical Dimension of L101156 Series:

A Max.	B Max.	C Max.	D ± 0.20	E Nominal	F ± 0.20
10.60	7.30	10.00	2.80	4.80	2.30

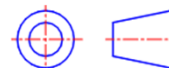


Part Marking:
L101156: part size.
xxxKx:xxx is inductance value in nH, K is OCL tolerance,
x is special code.
ITGYYWW: ITG logo and YYWW is date code.



Suggested Pad Layout

Third Angle Projection:



Notes:

1. Open Circuit Inductance (OCL) test condition: 100KHz, 0.25Vrms, 0A DC at 25°C.
2. L @ Isat and L @ Irms Test condition: 100KHz, 0.25Vrm (Ta=25°C).
3. The nominal DCR is measured from point "a" to point "b" as shown above in 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.
6. Derating is necessary for AC currents.
7. Verify and check PCB pad layout, trace thickness, width, air-flow and proximity of other heat generating components as it will have an effect on the temperature rise.
8. It is recommended that the part temperature should not exceed 130°C under worst operating conditions.

● New York 1 914 347 2474 ● Taipei 886 2 2698 8669 ● Kaohsiung 886 7 350 2275
 ● Tokyo 81 568 85 2830 ● Shenzhen 86 755 8418 6263 ● Shanghai 86 21 5424 5141 ● Hong Kong 852 9688 9767
 ● sales@ITG-Electronics.com ● www.ITG-Electronics.com Revision B: April 25, 2016

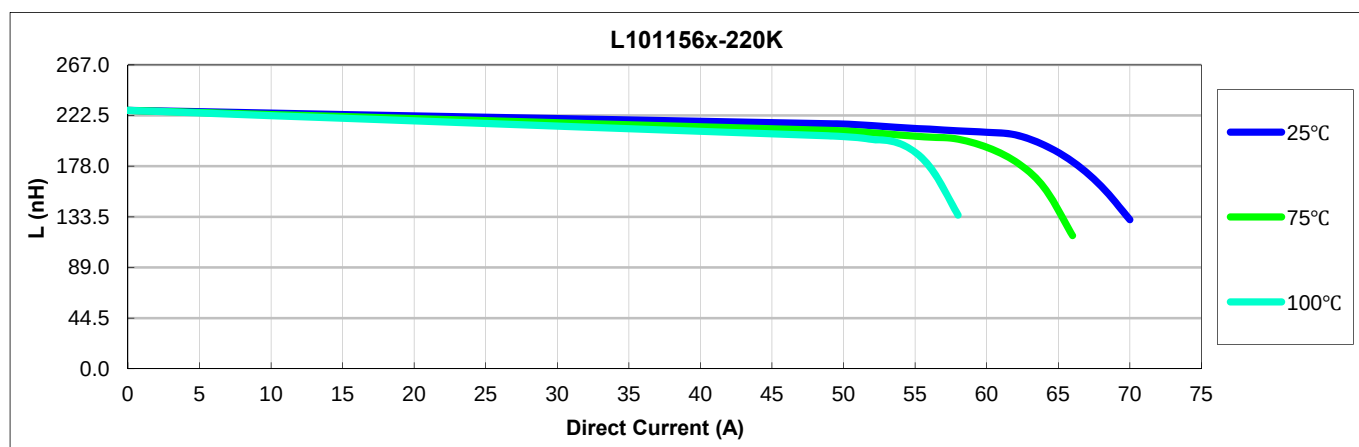
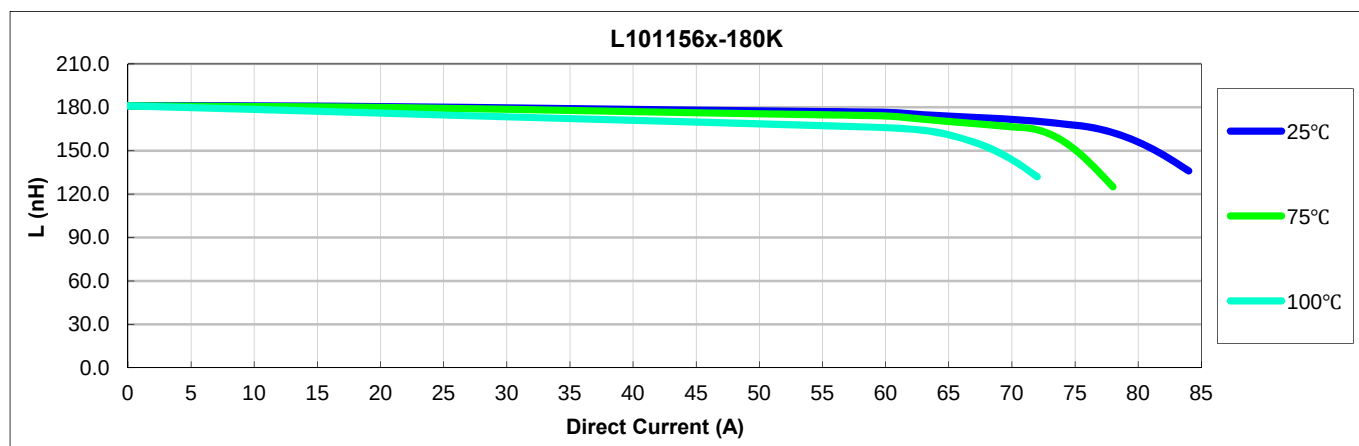
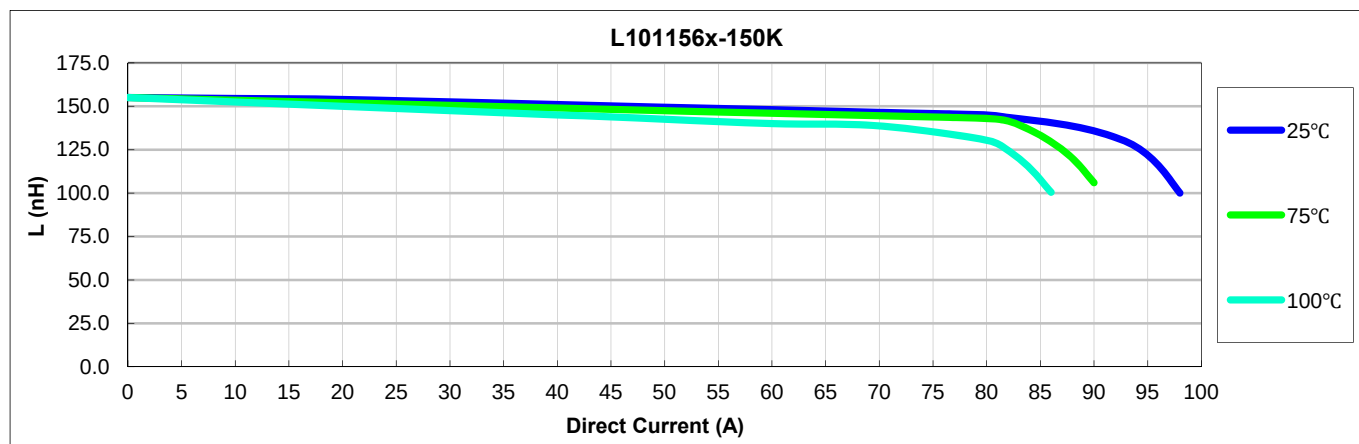
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L101156 Series



4. Inductance Characteristics of L101156 Series (Inductance vs Current):



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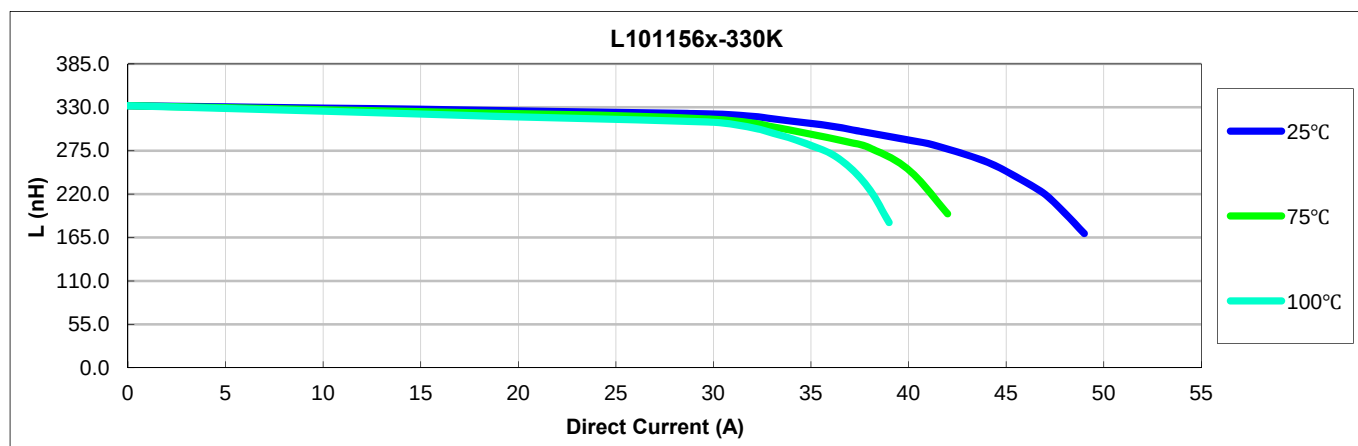
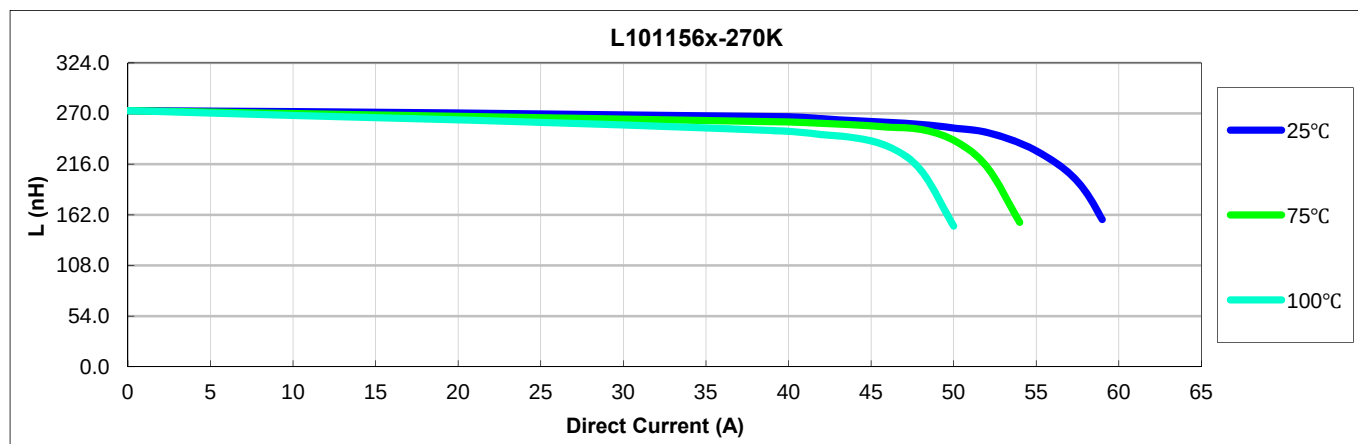
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L101156 Series



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