

SL29327A Series



1. Features of SL29327A Series:

- Ferrite based SMD inductor with lower core loss.
- Inductance range: 55.0 nH to 120.0 nH , custom values are welcomed.
- High current output chokes up to 110.0 Amp with approx. 20% roll off.
- Low profile 8.00 mm Max. height.
- 7.20 x 6.50 mm Foot Print.
- Ideal for Buck Converter, VRM & High Density Board Design.
- Operating frequency of up to 5.0MHz.
- Operating temperature range of -55° C to + 130° C. RoHS & HF compliant.
- T & R Qty's: 600pcs, 13" Reel.

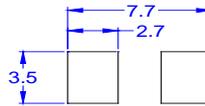
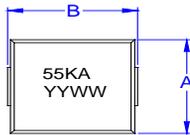


2. Electrical Characteristics of SL29327A Series:

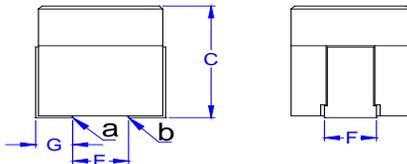
ITG Part Number	OCL ¹ (nH) ± 10% or ± 15%	L @ Isat1 ² (nH) Min.	DCR ³ (mΩ) ± 5.0%	Isat1 ⁴ (A) @25°C	Isat2 ⁴ (A) @75°C	Isat3 ⁴ (A) @100°C	Irms ⁵ (A) @25°C
SL29327A-55K	55.00 ± 10%	39.60	0.20	110.00	105.00	100.00	63.00
SL29327A-70L	70.00 ± 15%	50.40	0.20	92.00	85.00	78.00	63.00
SL29327A-100L	100.00 ± 15%	72.00	0.20	65.00	60.00	55.00	63.00
SL29327A-120L	120.00 ± 15%	86.40	0.20	54.00	50.00	46.00	63.00

3. Mechanical Dimension of SL29327A Series:

A	B	C	E	F	G
Max.	Max.	Max.	Nom.	± 0.20	± 0.20
6.50	7.20	8.00	2.80	3.00	2.10



Suggested Pad Layout



Part Marking:
55KA: 55 is inductance value in nH, K is tolerance,
A is special code.
YYWW: YYWW is Date Code.



Notes:

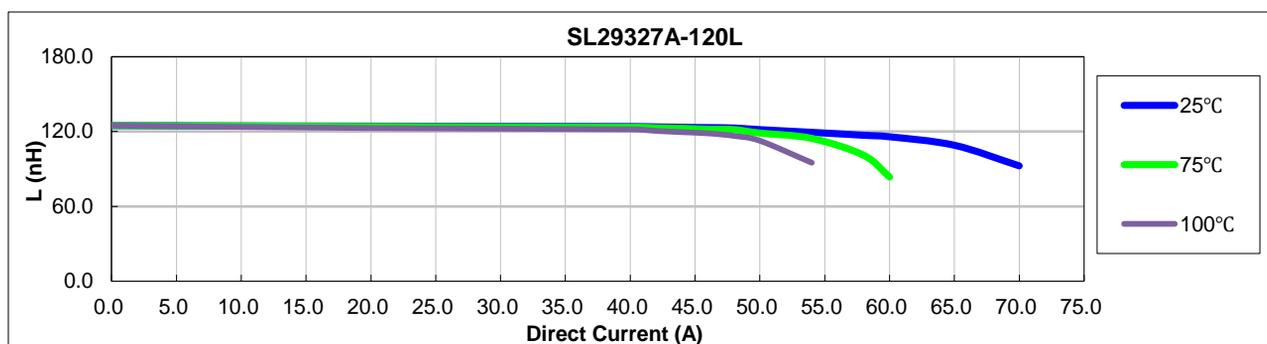
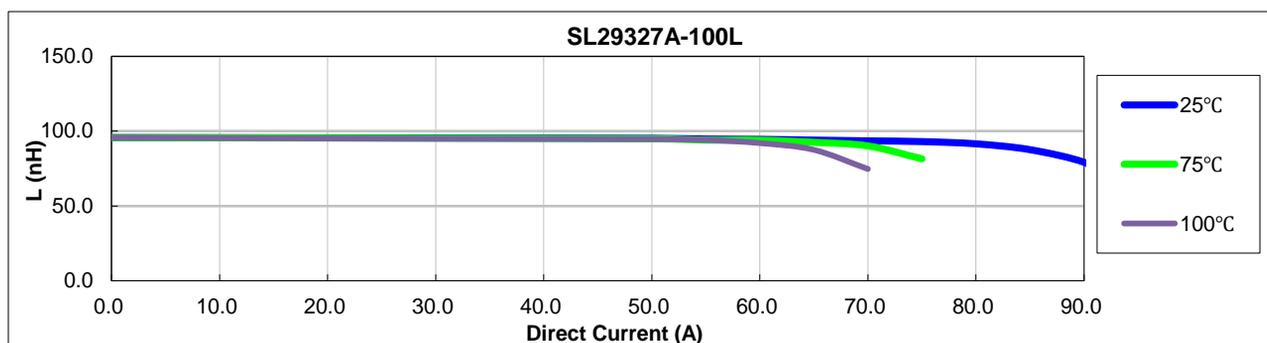
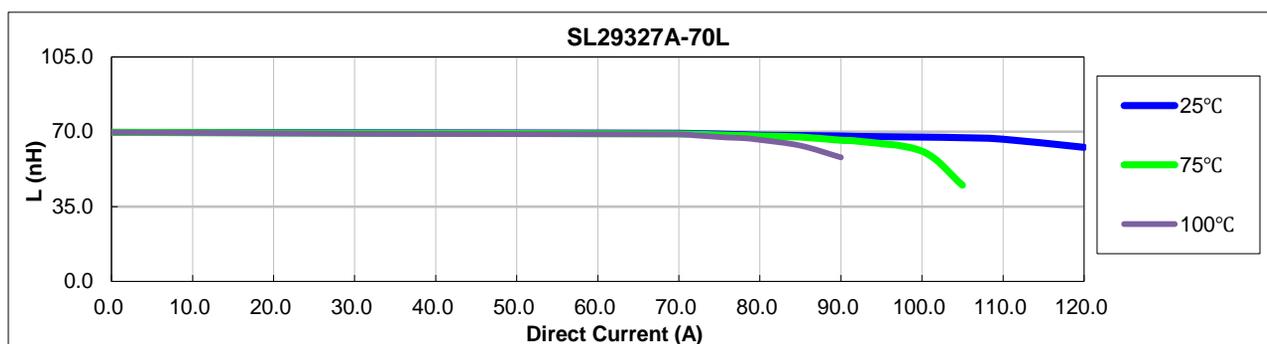
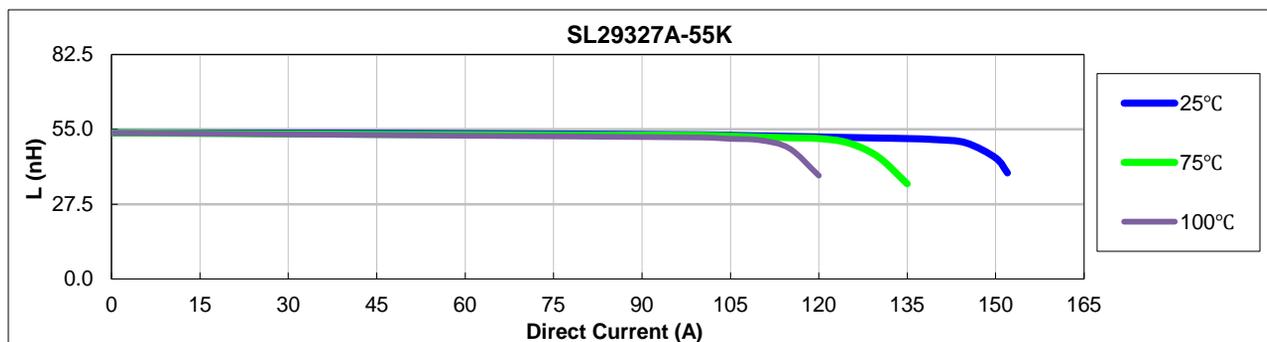
1. Open Circuit Inductance (OCL) test condition: 100KHz, 1.0Vrms, 0A_{dc} at 25°C.
2. L @ Isat and L @ Irms Test condition: 100KHz, 1.0Vrms (Ta=25°C).
3. The nominal DCR is measured from point "a" to point "b", as shown above on the mechanical drawing (Ta=25°C).
4. Isat1, Isat2 & Isat3: DC current that 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.
6. It is recommended the part temperature not exceed 130° C under worst case operating conditions as verified in the end application.



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4. Inductance Characteristics of SL29327A Series (Inductance vs Current):



● New York 1 914 347 2474 ● Taipei 886 2 2698 8669 ● Kaohsiung 886 7 350 2275
 ● Japan 81 568 85 2830 ● Shenzhen 86 755 8418 6263 ● Shanghai 86 21 5424 5141 ● Hong Kong 852 9688 9767
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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.