



SLA37556 Series



1. Features of SLA37556 Series:

- Ferrite based SMD inductor with lower core loss.
- Inductance range: 120.0nH up to 330.0nH, custom values are welcomed.
- High current output chokes, up to 116.0 Amp with approx. 20% roll off.
- Low profile 14.00mm max height.
- Foot Print 9.50 x 6.40 / 6.20 mm max footprint.
- Perfect for high density designs with limited board space.
- Operating frequency of up to 1.0MHz.
- Operating temperature range of -55° C to + 130° C
- RoHS & HF compliant.
- T & R Qty's: 350pcs, 13" Reel.

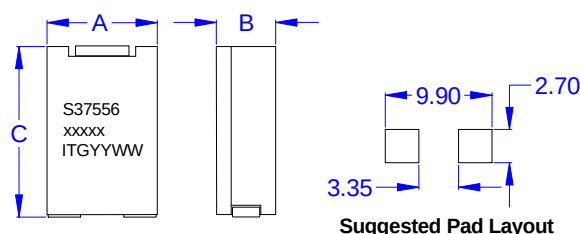


2. Electrical Characteristics of SLA37556 Series:

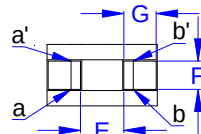
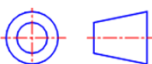
ITG Part Number	OCL ¹ (nH) 10% or 15%	L @ Isat1 ² (nH) Min. @25°C	DCR ³ (mΩ) ± 5%	Isat1 ⁴ (A) @25°C	Isat2 ⁴ (A) @85°C	Isat3 ⁴ (A) @100°C	Isat4 ⁴ (A) @125°C	Irms ⁵ (A) @25°C	Dim. B Max.
SLA37556A-120K	120.00 , 10%	84.00	0.29	116.00	103.00	98.00	92.00	52.00	6.40
SLA37556A-150K	150.00 , 10%	105.00	0.29	96.00	84.00	80.00	75.00	52.00	6.40
SLA37556A-180K	180.00 , 10%	126.00	0.29	80.00	70.00	66.00	62.00	52.00	6.20
SLA37556A-220K	220.00 , 10%	154.00	0.29	64.00	56.00	54.00	51.00	52.00	6.20
SLA37556A-270K	270.00 , 10%	189.00	0.29	51.00	45.00	43.00	40.00	52.00	6.20
SLA37556A-300K	300.00 , 10%	210.00	0.29	47.00	41.00	39.00	35.00	52.00	6.20
SLA37556A-330L	330.00 , 15%	231.00	0.29	40.00	35.00	33.00	31.00	52.00	6.20

3. Mechanical Dimension of SLA37556 Series:

A (Max.)	B (Max.)	C (Max.)	E (Nom.)	F ± 0.20	G ± 0.30
9.50	See above table	14.00	3.85	2.30	2.80



Third Angle Projection:



Part Marking:
S37556: part size.
xxx x x: xxx is inductance value in nH,
x : tolerance code, x is special code.
ITGYWW: ITG logo and YYWW is date code.

Notes:

- Open Circuit Inductance (OCL) test condition: 100KHz, 0.10 Vrms, 0A DC at 25°C.
- L @ Isat and L @ Irms Test condition: 100KHz, 0.1 Vrm (Ta=25°C).
- The nominal DCR is measured from point "a" to point "b" as shown above in the mechanical drawing (Ta=25°C).
- Isat1, Isat2, Isat3 & Isat4 : DC current that will cause inductance to drop approximately by 20%.
- Irms: DC current for an approximate temperature rise of 40°C without core loss.
- Derating is necessary for AC currents. 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.
- 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: March 30, 2016

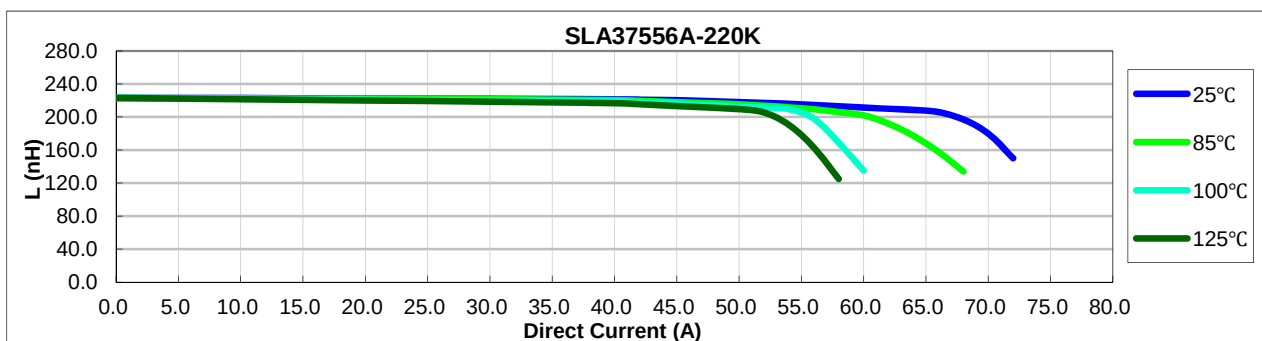
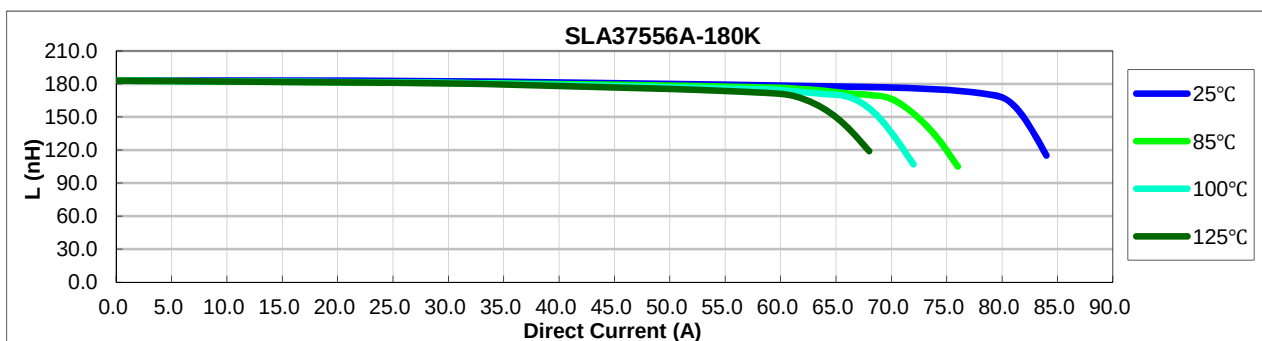
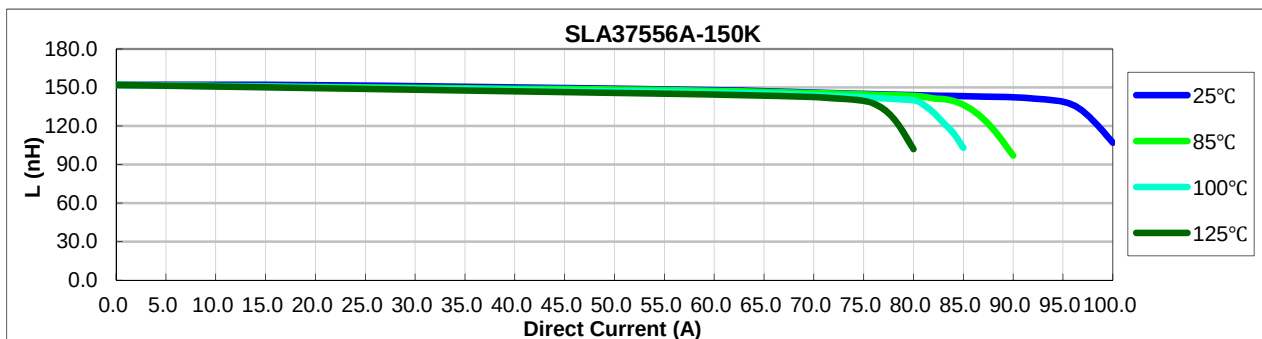
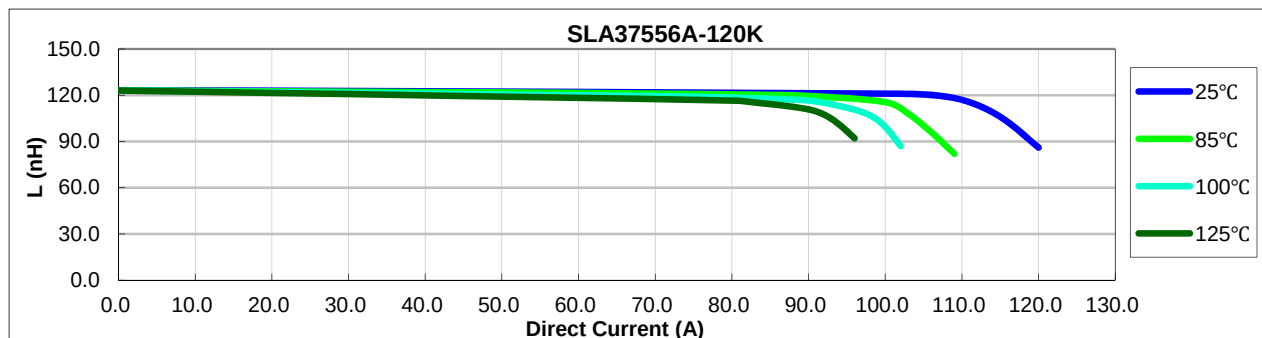
*Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.



SLA37556 Series



4. Inductance Characteristics of SLA37556 Series (Inductance vs Current):



● 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: March 30, 2016

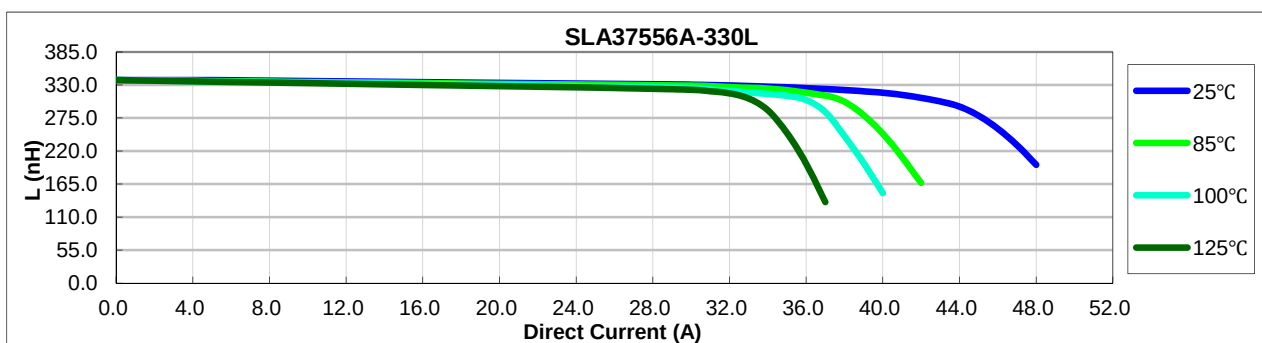
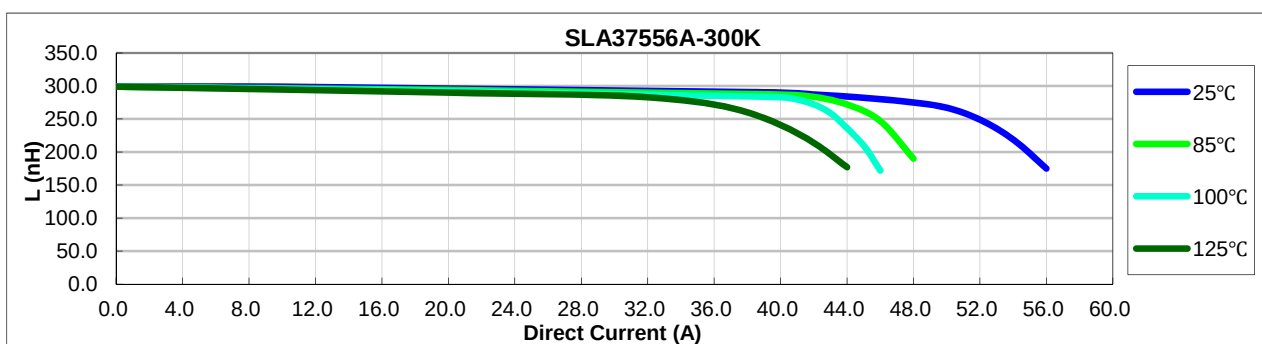
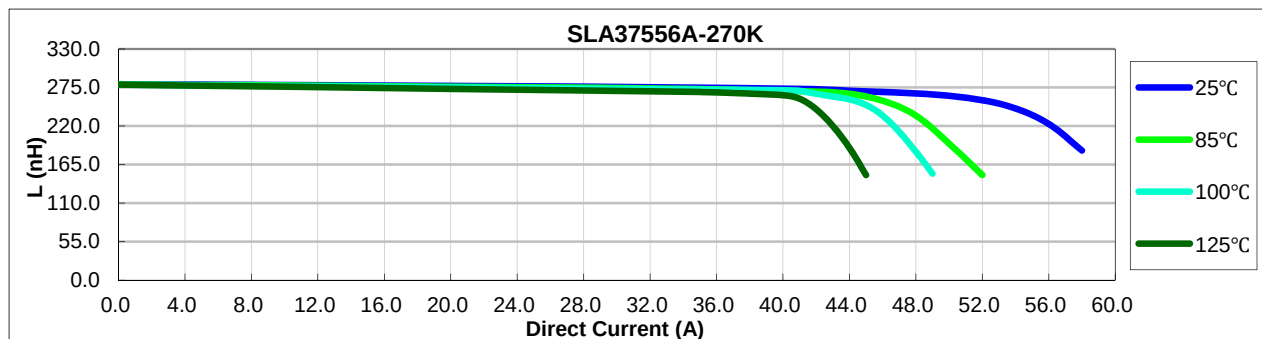
**Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.*



SLA37556 Series



4. Inductance Characteristics of SLA37556 Series (Inductance vs Current):



● 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: March 30, 2016

**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.*