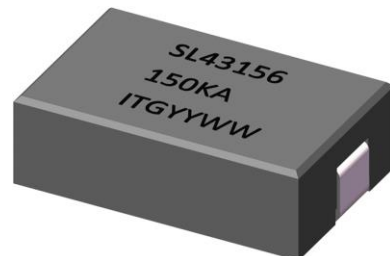


SL43156 Series



1. Features of SL43156 Series:

- Ferrite based SMD inductor with lower core loss.
- Inductance range: 100.0 nH to 320.0 nH , custom values are welcomed.
- High current output chokes, up to 48.0 Amp with approx. 20% roll off.
- Low Profile 4.20 / 4.00 mm Max. height .
- 11.00 x 7.00 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: 1200pcs, 13" Reel.

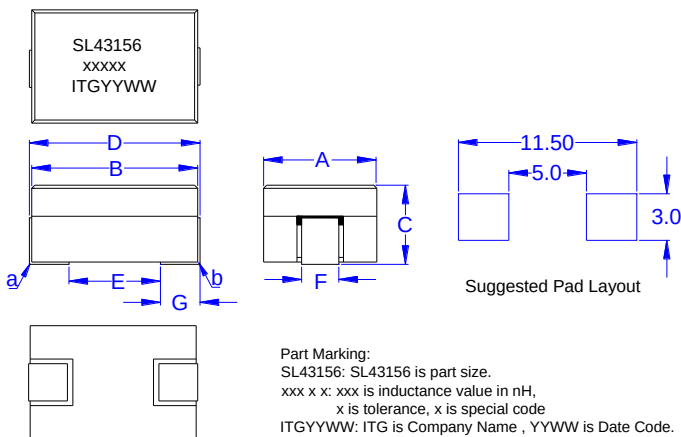


2. Electrical Characteristics of SL43156 Series:

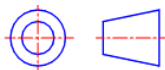
ITG Part Number	OCL ¹ (nH) ± 10% or 15%	L @ Isat1 ² (nH) Typical	DCR ³ (mΩ) ± 7%	Isat1 ⁴ (A) @25°C	Isat2 ⁴ (A) @75°C	Isat3 ⁴ (A) @100°C	Irms ⁵ (A) @25°C	Dim. C (mm) Max.
SL43156A-100K	100.00 , 10%	80.00	0.35	48.00	44.00	40.00	43.00	4.20
SL43156A-120K	120.00 , 10%	96.00	0.35	42.00	40.00	36.00	43.00	4.20
SL43156A-150K	150.00 , 10%	120.00	0.35	30.00	27.00	25.00	43.00	4.20
SL43156A-180K	180.00 , 10%	144.00	0.35	23.00	20.00	19.00	43.00	4.20
SL43156A-220K	220.00 , 10%	176.00	0.35	19.00	17.00	16.00	43.00	4.20
SL43156A-270L	270.00 , 15%	216.00	0.35	14.00	13.00	11.00	43.00	4.00
SL43156A-320L	320.00 , 15%	256.00	0.35	12.00	11.00	10.00	43.00	4.00

3. Mechanical Dimension of SL43156 Series:

A Max.	B Max.	C Max.	D Max.	E Ref.	F ± 0.25	G ± 0.35
7.00	10.85	See Table above	11.00	5.90	2.40	2.50



Third Angle Projection:



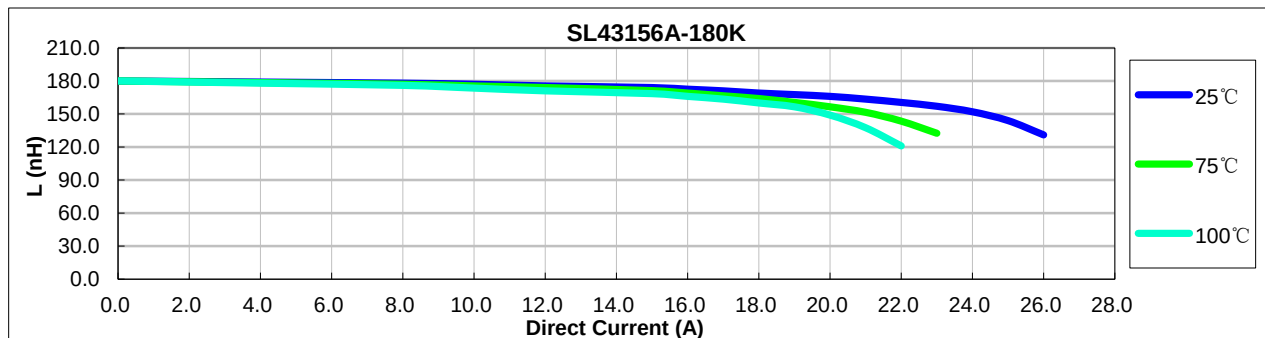
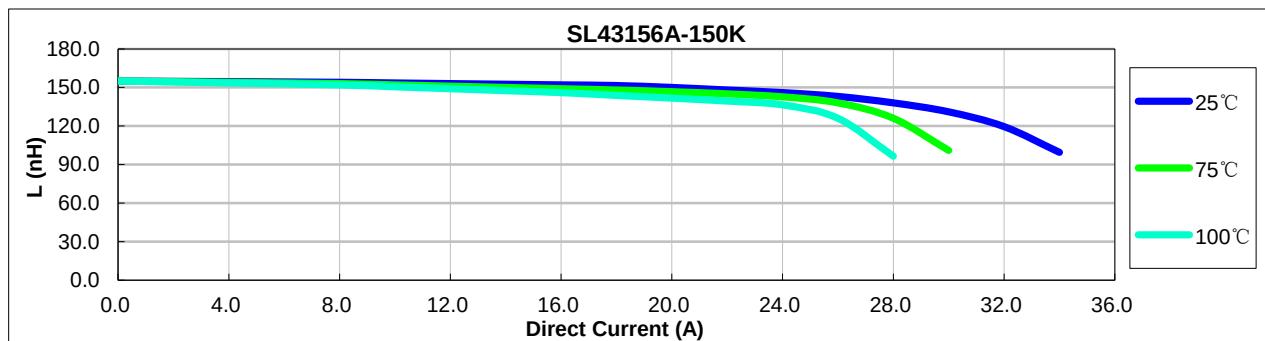
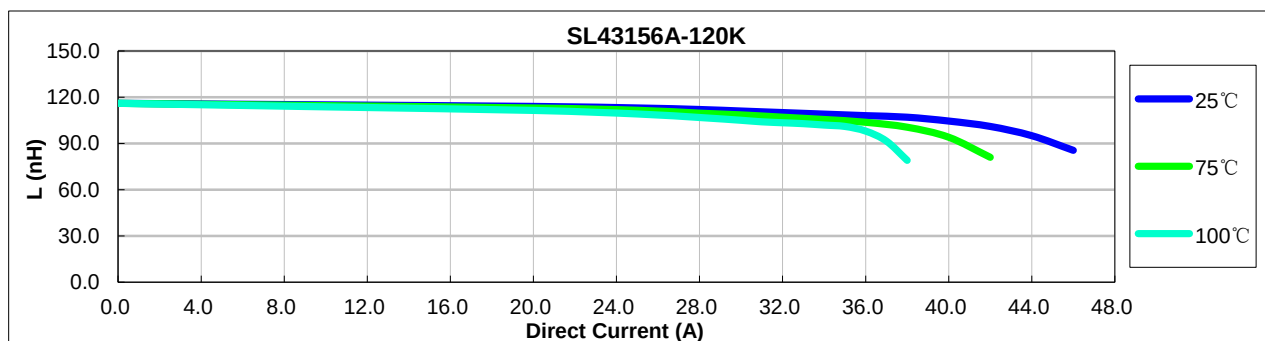
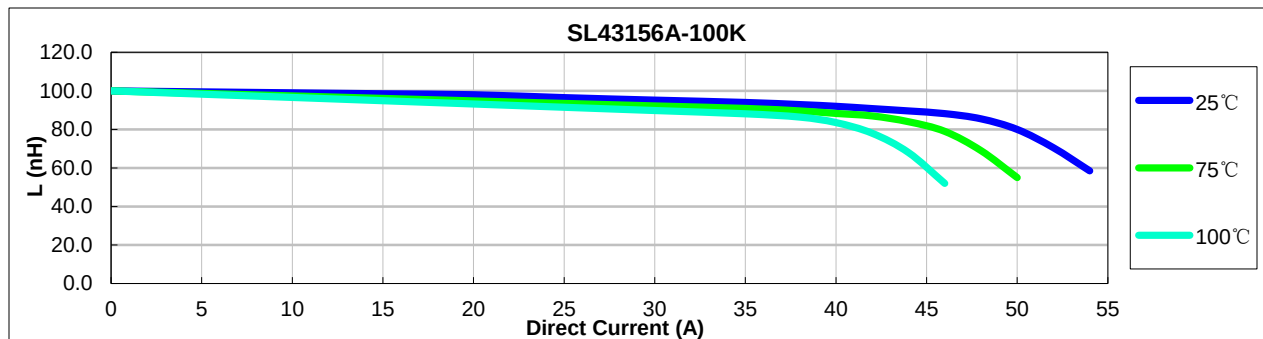
Notes:

1. Open Circuit Inductance (OCL) test condition: 100KHz, 0.1Vrms, 0A_{dc} at 25°C.
2. L @ Isat and L @ Irms Test condition: 100KHz, 0.1Vrms (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 & Isat4 : 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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*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.

4. Inductance Characteristics of SL43156 Series (Inductance vs Current):



4. Inductance Characteristics of SL43156 Series (Inductance vs Current):

