

1. Features of SLA3247 Series :

- Ferrite based SMD inductor with lower core loss.
- Inductance Range: 70.0 nH to 470.0 nH , custom values are welcomed.
- High current output chokes, up to 168.0 Amp with approx. 20% roll off.
- Low Profile 12.00 mm Max. height .
- Foot Print 8.00 x 6.60 / 6.40 mm .
- Ideal for Buck Converter, VRM & High Density Board Design.
- 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 .

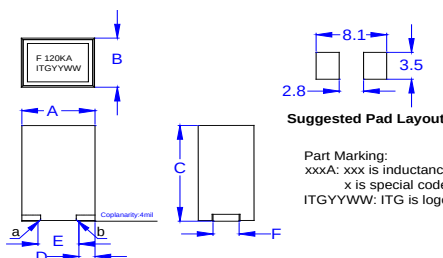


2. Electrical Characteristic of SLA3247 Series:

ITG Part Number	OCL ¹ (nH) ± 10% or ± 15%	L @ Isat1 ² (nH) Min.	DCR ³ (mΩ) ± 10%	Isat1 ⁴ (A) @25°C	Isat2 ⁴ (A) @100°C	Isat3 ⁴ (A) @125°C	Irms ⁵ (A) @25°C	B mm (Max.)
SLA3247A-70K	70.00	49.00	0.18	168.00	133.00	128.00	61.00	6.60
SLA3247A-80K	80.00	56.00	0.18	147.00	117.00	112.00	61.00	6.60
SLA3247A-90K	90.00	63.00	0.18	130.00	104.00	100.00	61.00	6.60
SLA3247A-100K	100.00	70.00	0.18	117.00	93.00	90.00	61.00	6.40
SLA3247A-120K	120.00	84.00	0.18	98.00	78.00	75.00	61.00	6.40
SLA3247A-150K	150.00	105.00	0.18	80.00	64.00	61.00	61.00	6.40
SLA3247A-300K	300.00	210.00	0.18	35.00	28.00	27.00	61.00	6.40
SLA3247A-330L	330.00	231.00	0.18	34.00	27.00	26.00	61.00	6.40
SLA3247A-470L	470.00	329.00	0.18	23.00	18.00	17.00	61.00	6.40

3. Mechanical Dimension(Unit : mm):

A (Max.)	B (Max.)	C (Max.)	D ± 0.20	E (Nom.)	F ± 0.20
8.00	See table above	12.00	2.15	3.30	3.00



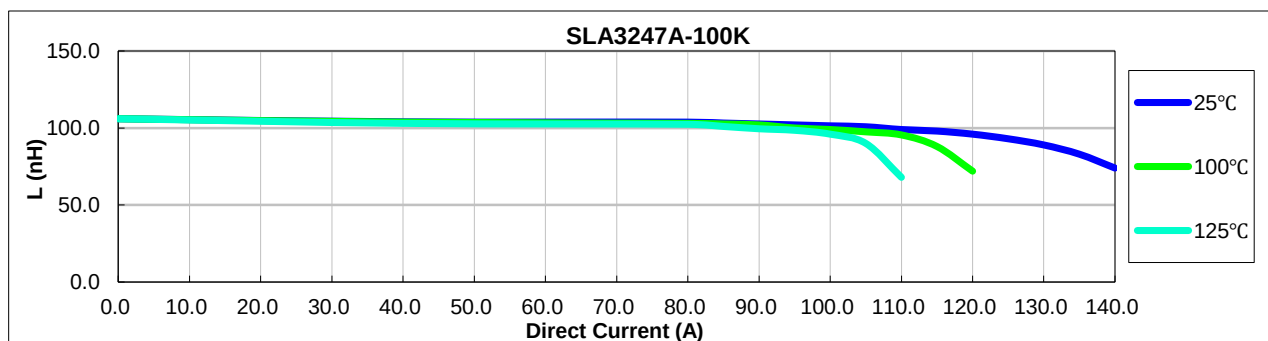
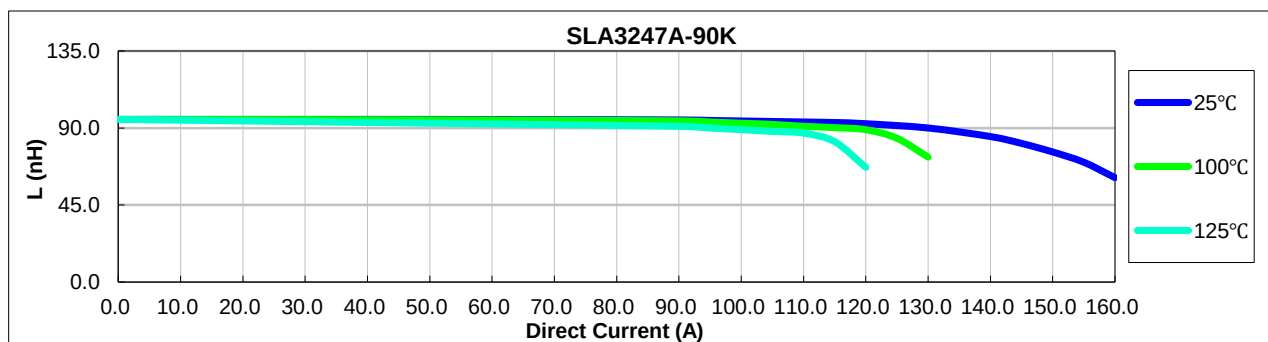
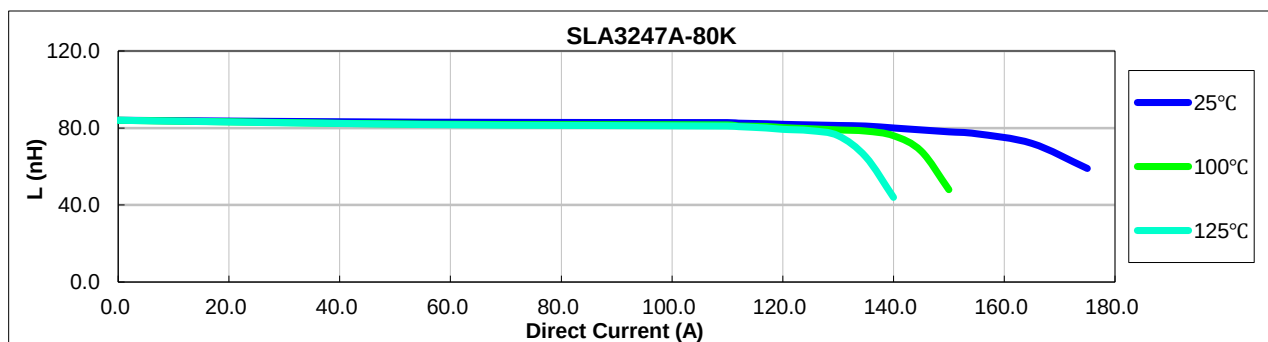
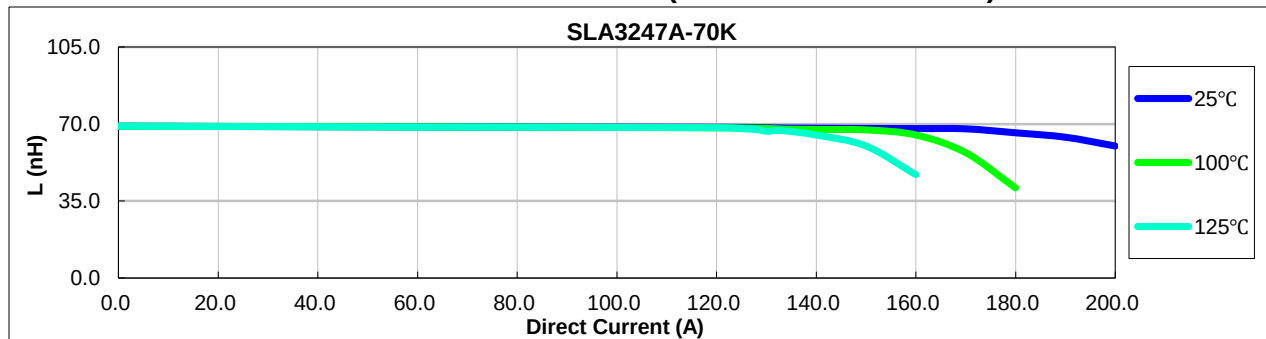
Part Marking:
xxx: xxx is inductance value in nH,
x is special code
ITGYWW: ITG is logo, YYWW is date code.

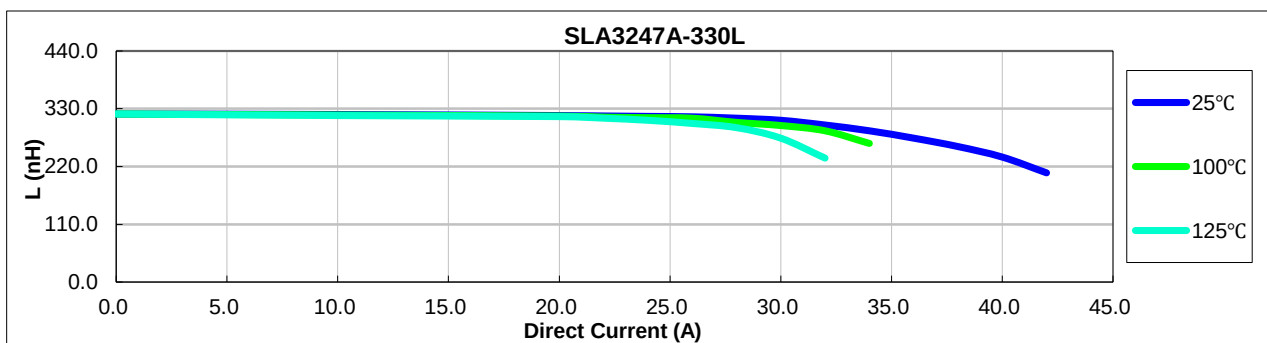
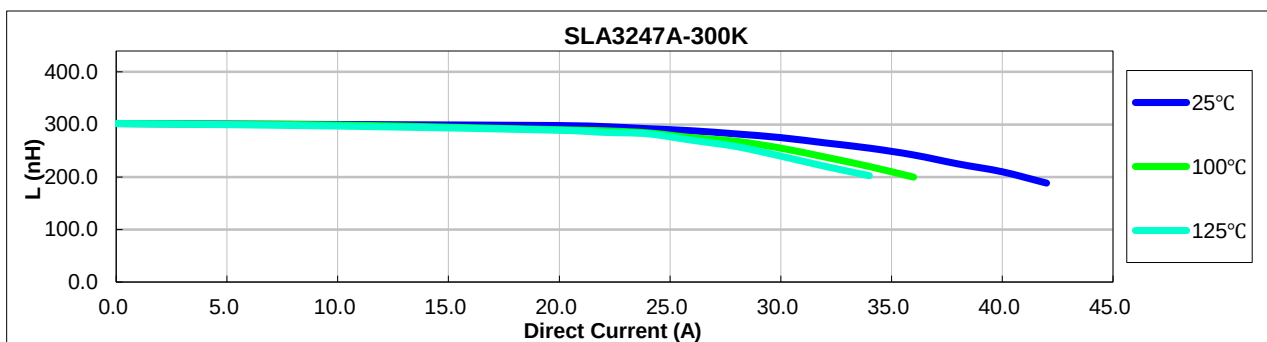
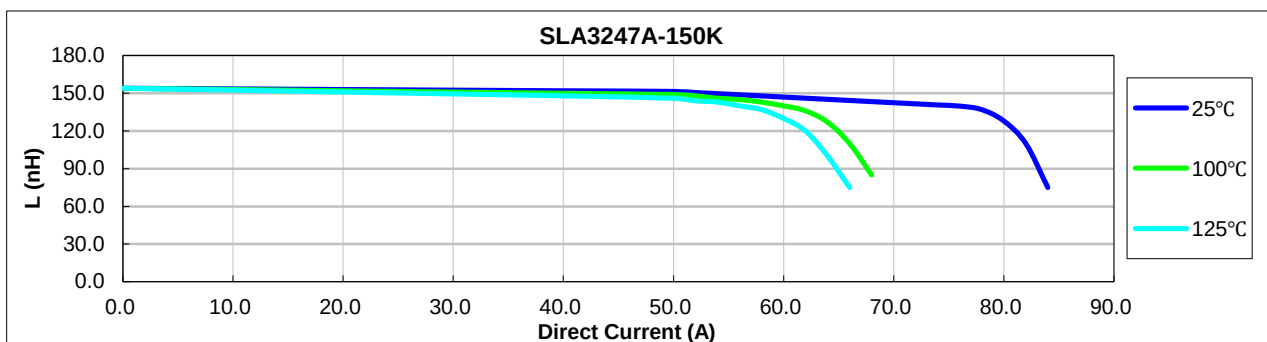
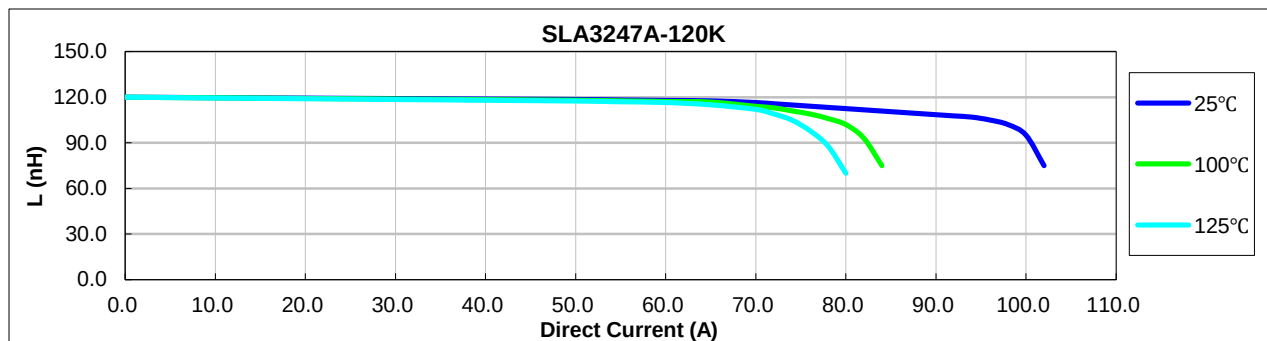
Notes:

1. Open Circuit Inductance (OCL) test condition:500KHz,0.25Vrms,0Adc , 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" 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. It is recommended the part temperature not exceed 130 °C under worst case operating conditions verified in the end application.



4. Inductance Characteristics of SLA3247 Series (Inductance vs Current):







SLA3247 Series

