



1. Features of SLA3247A-R1 Series:

- Immersion cooling ready power beads.
- 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 Qtys: 300 pcs , 13" Reel.

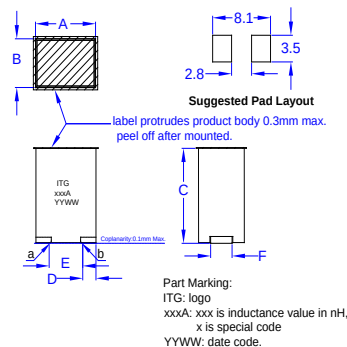


2. Electrical Characteristic of SLA3247A-R1 Series:

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-R1	70.00 ± 10%	49.00	0.18	168.00	133.00	128.00	61.00	6.60
SLA3247A-80K-R1	80.00 ± 10%	56.00	0.18	147.00	117.00	112.00	61.00	6.60
SLA3247A-90K-R1	90.00 ± 10%	63.00	0.18	130.00	104.00	100.00	61.00	6.60
SLA3247A-100K-R1	100.00 ± 10%	70.00	0.18	117.00	93.00	90.00	61.00	6.40
SLA3247A-120K-R1	120.00 ± 10%	84.00	0.18	98.00	78.00	75.00	61.00	6.40
SLA3247A-150K-R1	150.00 ± 10%	105.00	0.18	80.00	64.00	61.00	61.00	6.40
SLA3247A-300K-R1	300.00 ± 10%	210.00	0.18	35.00	28.00	27.00	61.00	6.40
SLA3247A-330L-R1	330.00 ± 15%	231.00	0.18	34.00	27.00	26.00	61.00	6.40
SLA3247A-470L-R1	470.00 ± 15%	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

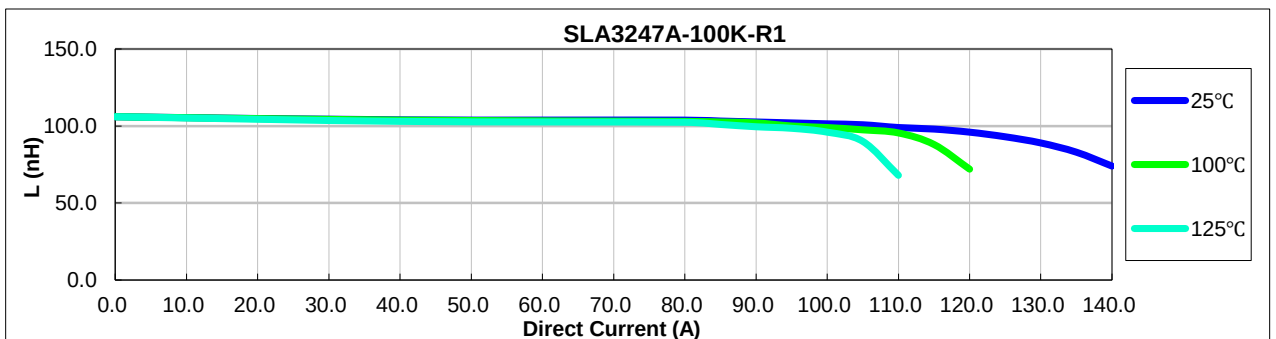
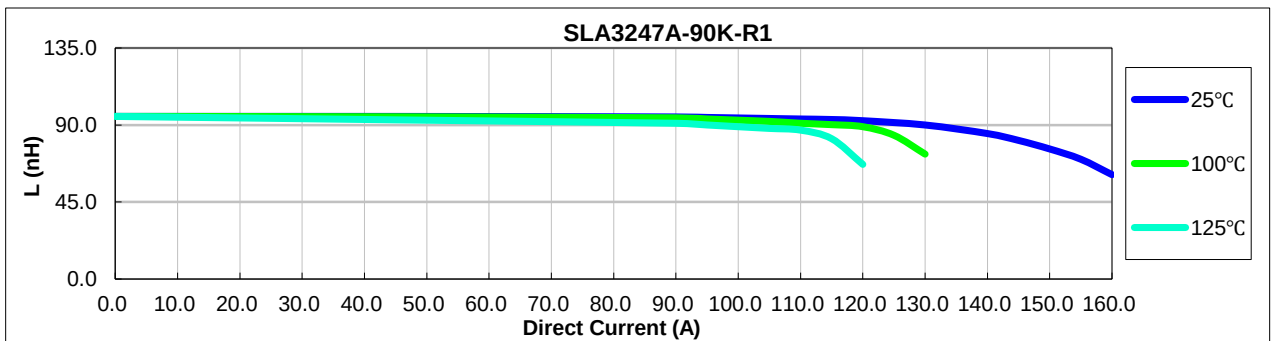
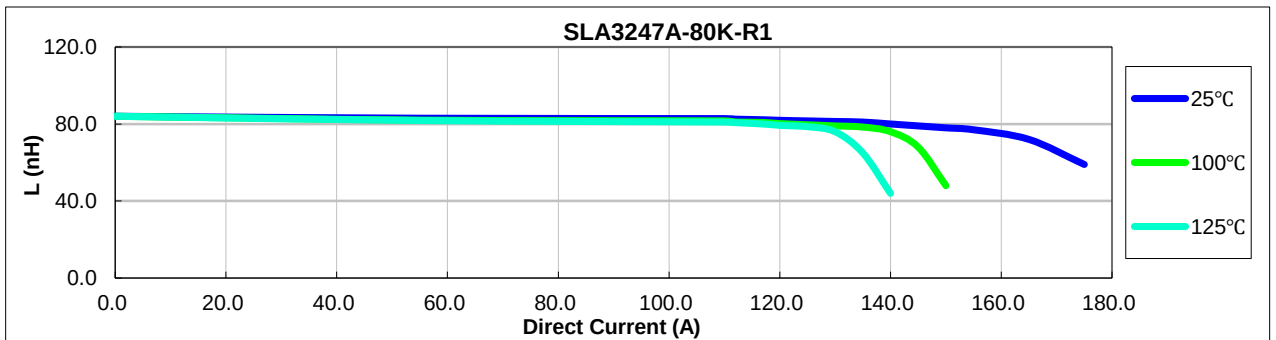
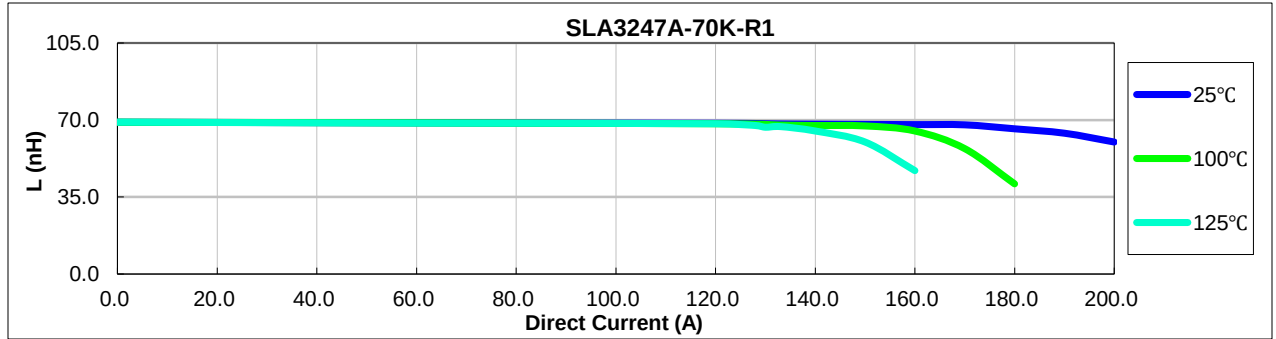


Notes:

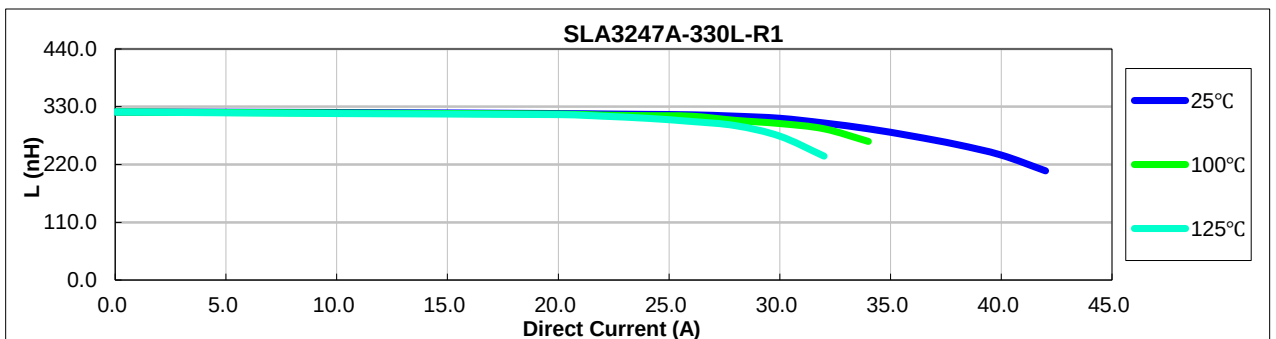
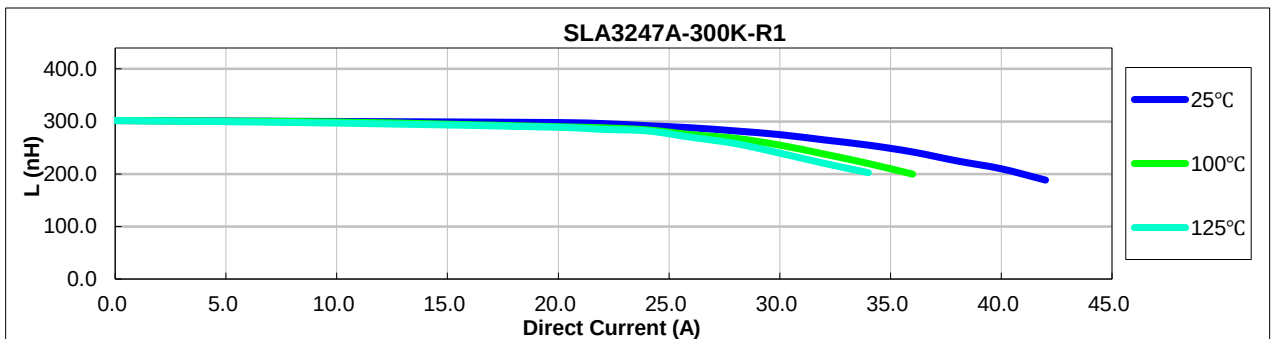
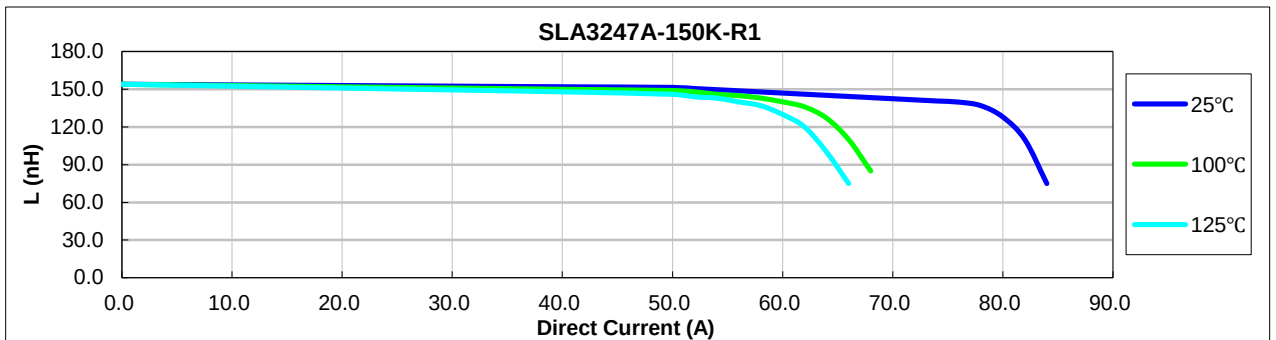
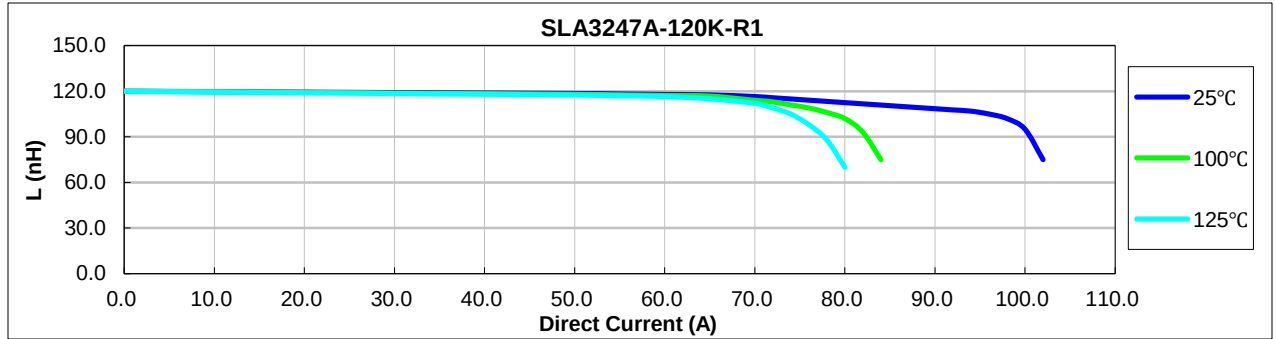
1. Open Circuit Inductance (OCL) test condition:500KHz,0.25Vrms,0Adc ,at 25 °C.
2. L @ Isat and L @ Irms Test condition:500KHz,0.25Vrms (Ta=25 °C).
3. The nominal DCR is measured from point "a" to point "b", as shown above on the mechanical drawing (Ta=25°C).
4. Isat1,Isat2 & Isat3 : DC current that 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.
6. Please contact ITG Sales or FAE to discuss your immersion cooling solvent and manufacturing process, ITG engineers will verify each customer's immersion cooling PCBA process.



4. Inductance Characteristics (Inductance vs. Current):



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