



1. Features of SLA2843B-R1 Series :

- Immersion cooling ready power beads.
- Inductance Range: 60.0nH to 420.0nH, Custom values are welcomed.
- High current output chokes, up to 165.0 Amp with approx. 20% roll off.
- Low Profile 11.0 mm Max. height .
- Foot Print 7.00 x 6.70 mm .
- Perfect for high density designs with limited board space.
- Operating frequency up to 5.0 MHz application.
- Operating Temperature Range -55° C to + 130° C , RoHs & HF compliance .
- T & R Qtys: 350 pcs , 13" Reel.

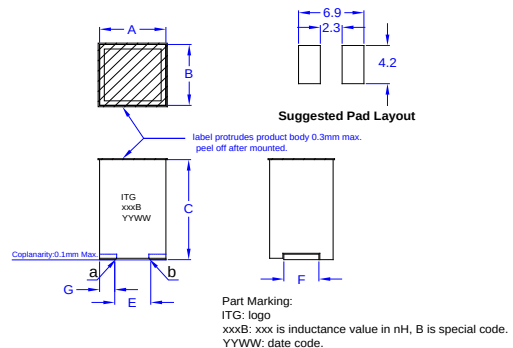


2. Electrical Characteristic of SLA2843B-R1 Series:

ITG Part Number	OCL ¹ (nH) ± 15%	L @ Isat1 ² (nH) Min.	DCR ³ (mΩ) ± 10%	Isat1 ⁴ (A) @25°C	Isat2 ⁴ (A) @75°C	Isat3 ⁴ (A) @100°C	Irms ⁵ (A) @25°C
SLA2843B-60L-R1	60.00	42.00	0.160	165.00	140.00	130.00	76.00
SLA2843B-70L-R1	70.00	49.00	0.160	134.00	124.00	114.00	76.00
SLA2843B-100L-R1	100.00	70.00	0.160	93.00	86.00	79.00	76.00
SLA2843B-120L-R1	120.00	84.00	0.160	76.00	69.00	65.00	76.00
SLA2843B-150L-R1	150.00	105.00	0.160	60.00	55.00	51.00	76.00
SLA2843B-220L-R1	220.00	154.00	0.160	42.00	38.00	35.00	76.00
SLA2843B-270L-R1	270.00	189.00	0.160	33.00	30.00	28.00	76.00
SLA2843B-330L-R1	330.00	231.00	0.160	28.00	25.00	22.00	76.00
SLA2843B-420L-R1	420.00	294.00	0.160	20.00	18.00	17.00	76.00

3. Mechanical Dimension(Unit : mm):

A	B	C	E	F	G
Max.	Max.	Max.	± 0.30	± 0.20	± 0.20
7.00	6.70	11.00	2.80	3.70	1.80

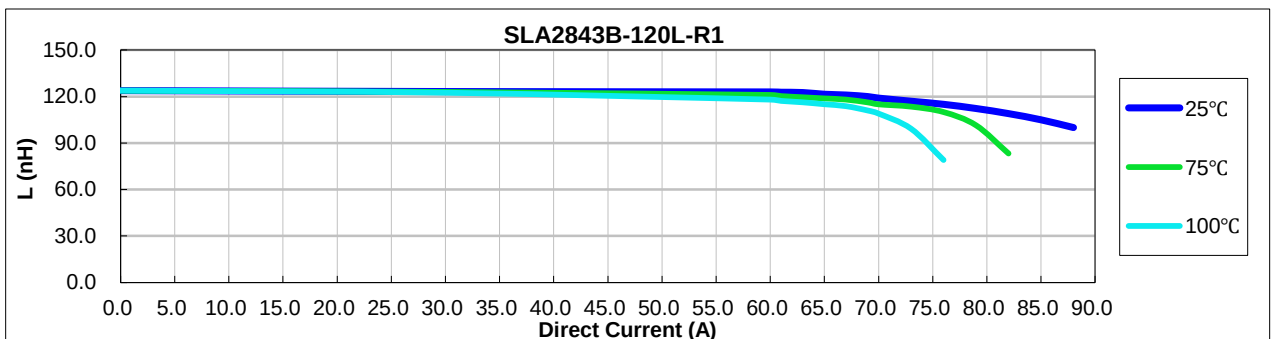
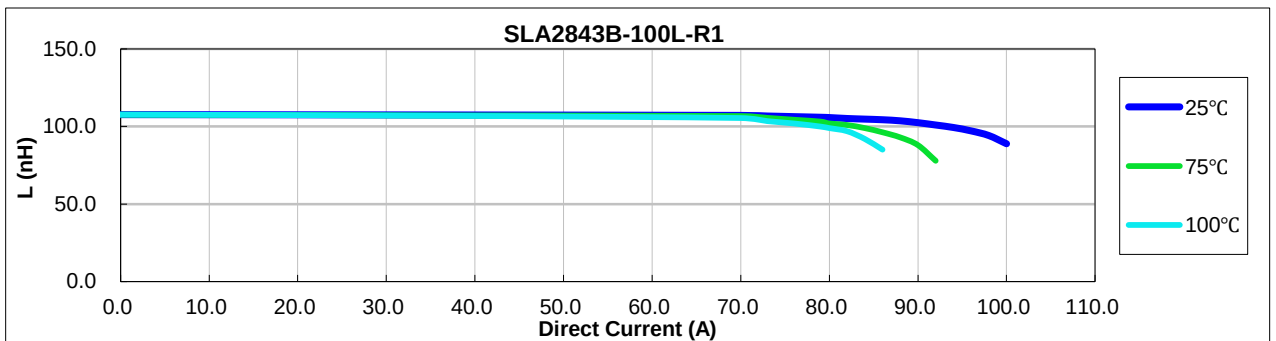
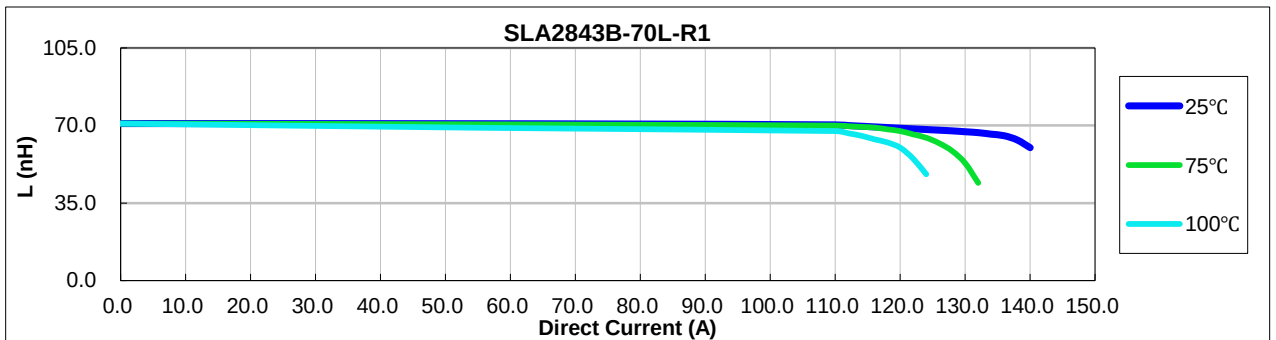
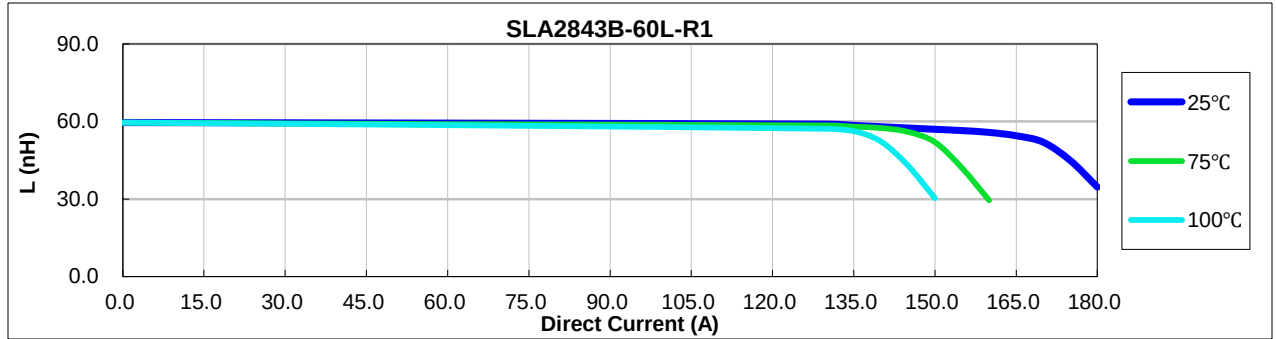


Notes:

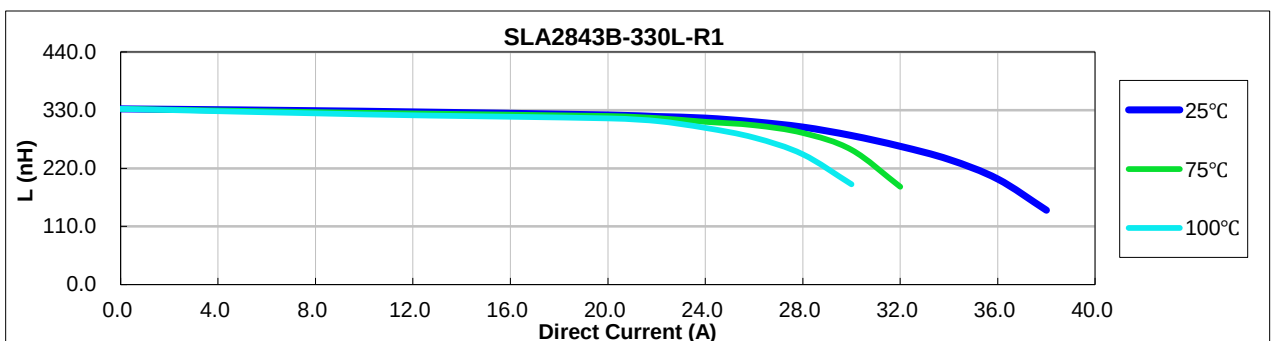
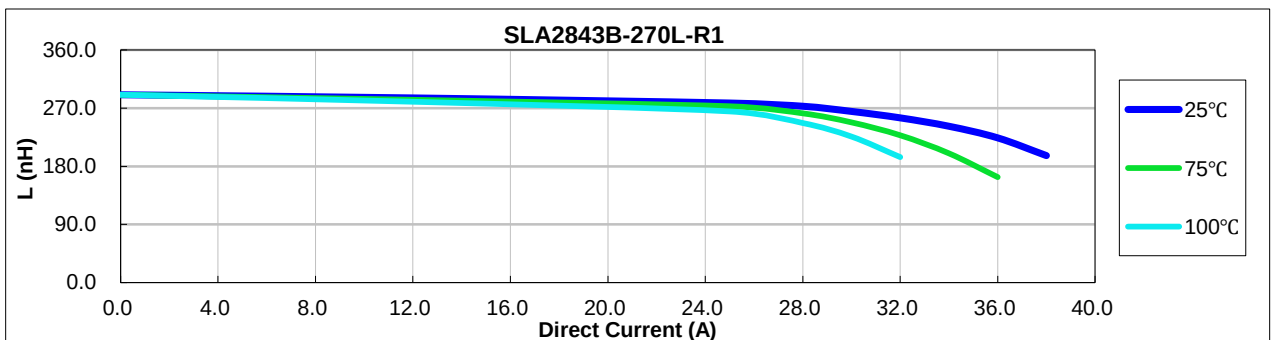
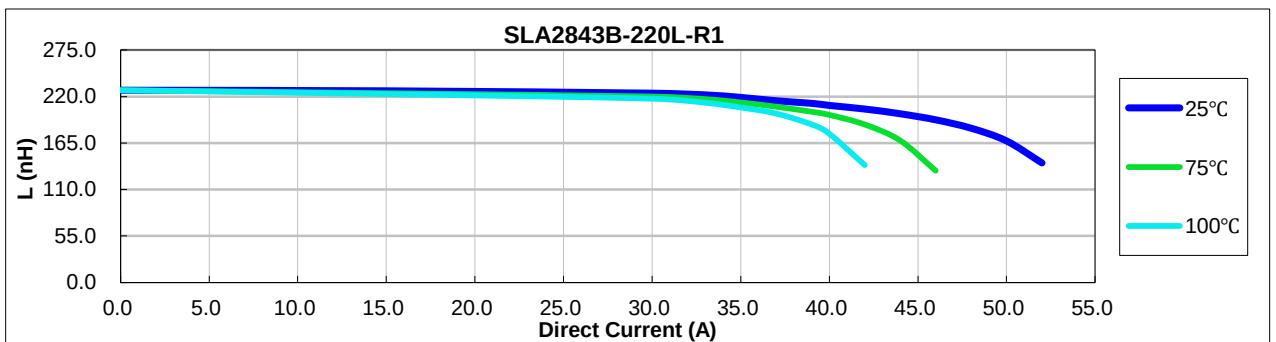
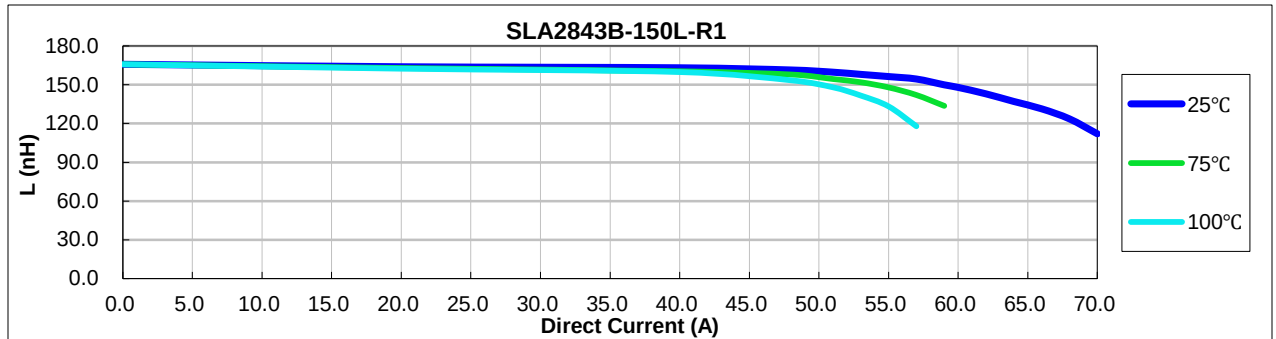
1. Open Circuit Inductance (OCL) test condition:100KHz,1Vrms,0Adc ,at 25 °C.
2. L @ Isat and L @ Irms Test condition:100KHz,1Vrms (Ta=25 °C).
3. The nominal DCR is measured from point "a" to point "b", as shown above on the mechanical drawing (Ta=25°C).
4. Isat1,Isat2 & Isat3 : DC current that will cause 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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