

1. Features of SLA2843B Series :

- Ferrite based SMD inductor with lower core loss.
- 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 ;

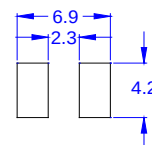
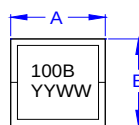


2. Electrical Characteristic of SLA2843B Series:

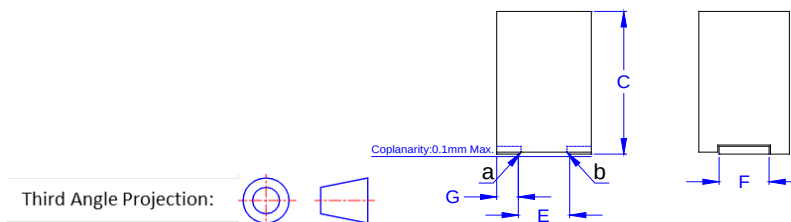
ITG Part Number	OCL ¹ (nH) ± 15%	L @ Isat1 ² (nH) Min.	DCR ³ (mΩ) ± 10%	Isat1 ⁴ (A) @25°C	Isat2 ⁴ (A) @75°C	Isat3 ⁴ (A) @100°C	Irms ⁵ (A) @25°C
SLA2843B-60L	60.00	42.00	0.160	165.00	140.00	130.00	76.00
SLA2843B-70L	70.00	49.00	0.160	134.00	124.00	114.00	76.00
SLA2843B-100L	100.00	70.00	0.160	93.00	86.00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



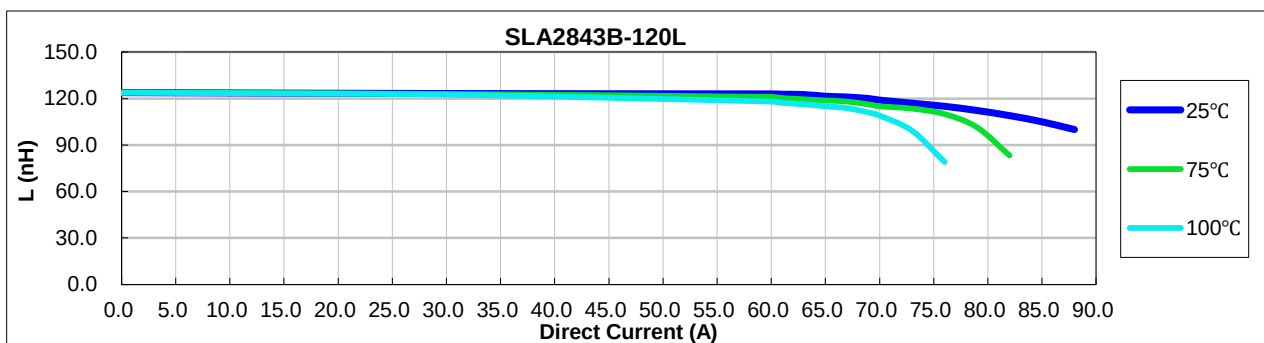
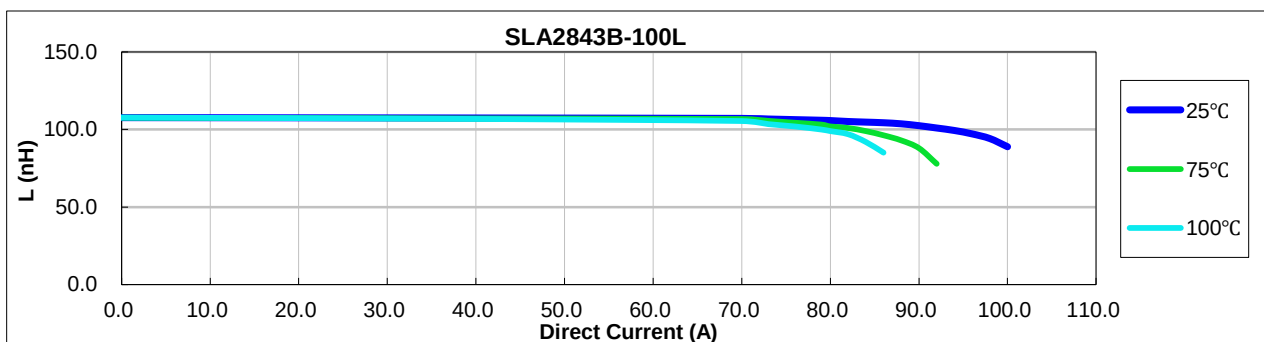
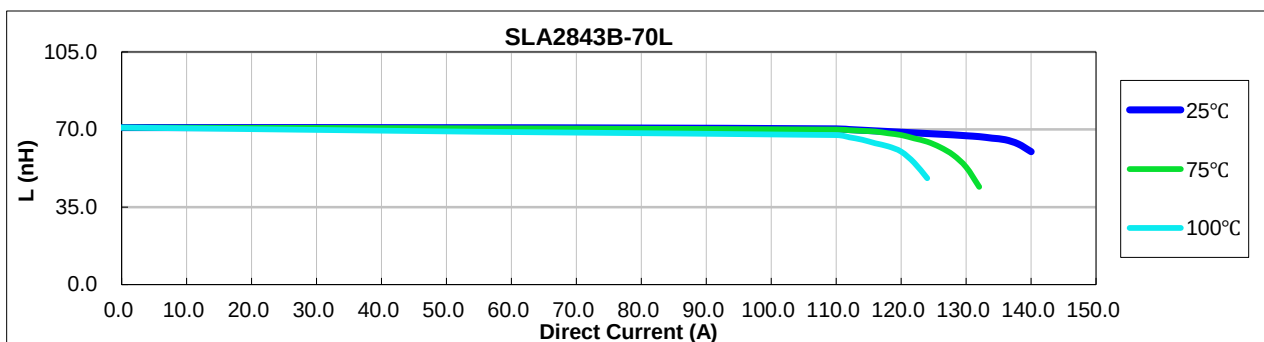
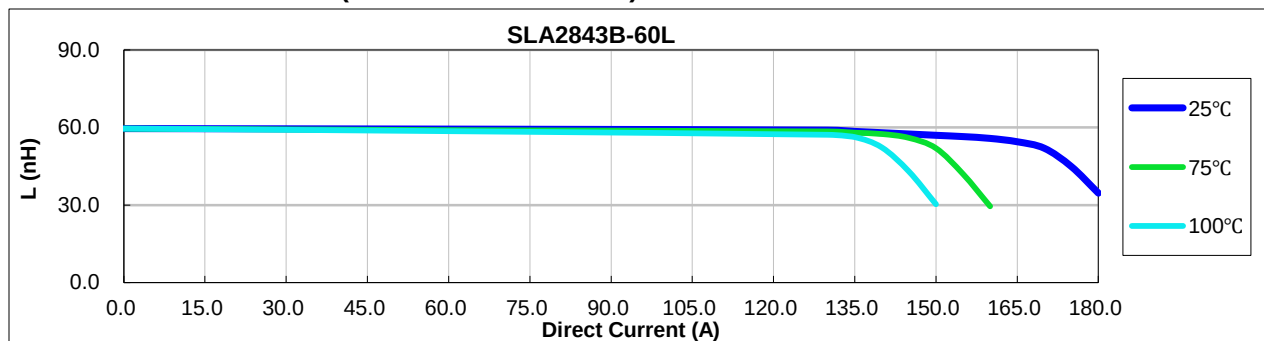
Suggested Pad Layout



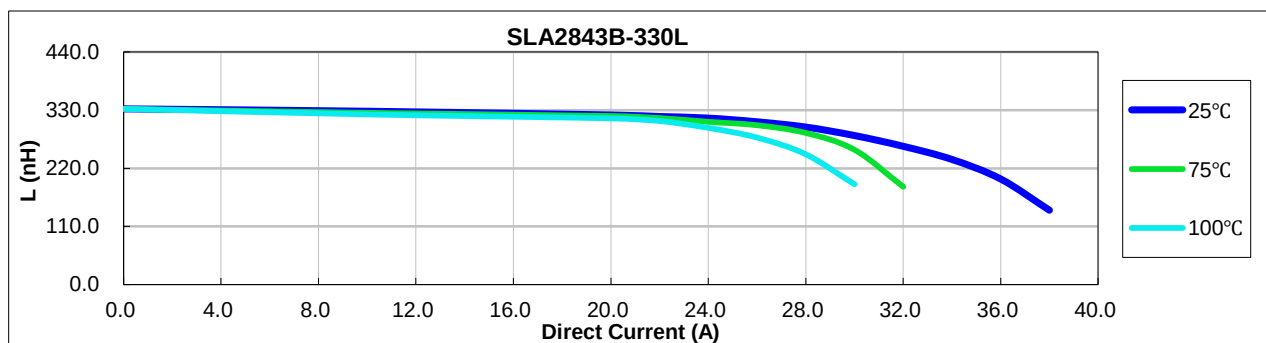
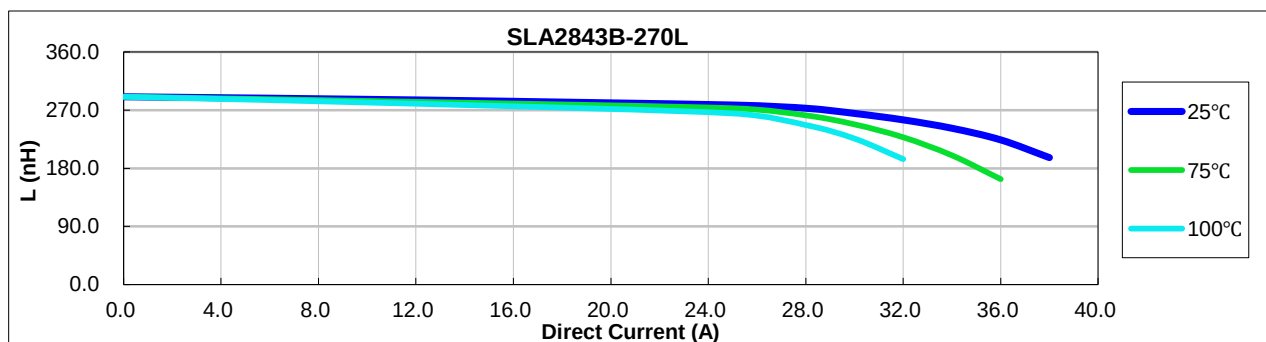
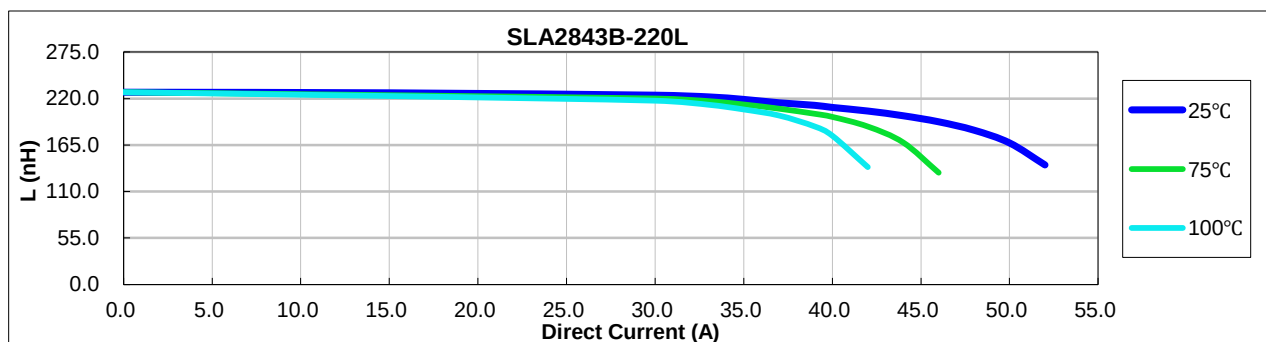
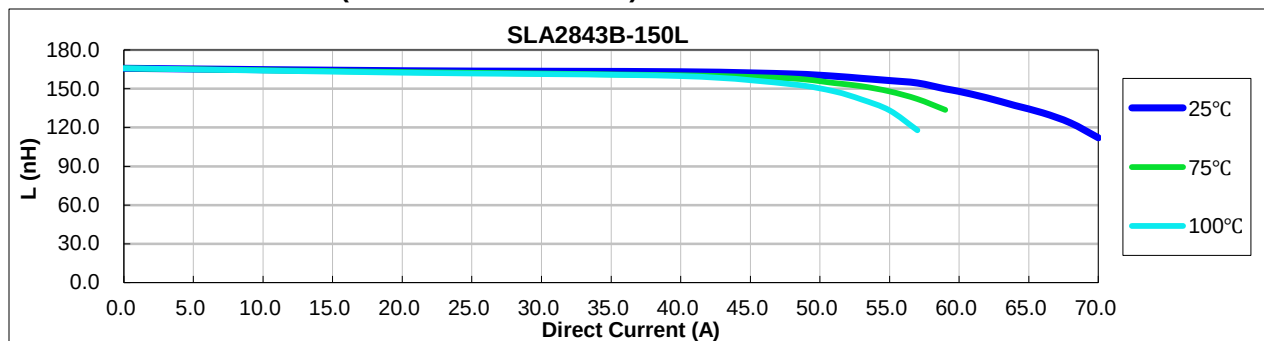
Notes:

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.

4. Inductance Characteristics (Inductance vs Current):



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