

1. Features of SLA41245B Series :

- Ferrite based SMD inductor with lower core loss.
- Inductance Range: 35.0nH to 330.0nH, Custom values are welcomed.
- High current output chokes, up to 180.0 Amp with approx. 20% roll off.
- Low Profile 6.00 mm Max. height .
- Foot Print 10.20 x 4.60 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: 800 pcs , 13" Reel ;

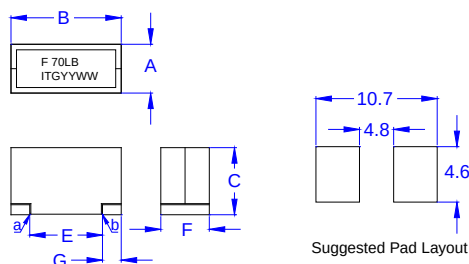


2. Electrical Characteristic of SLA41245B Series:

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
SLA41245B-35L	35.00	25.20	0.20	180.00	160.00	150.00	70.00
SLA41245B-50L	50.00	36.00	0.20	120.00	113.00	105.00	70.00
SLA41245B-60L	60.00	43.20	0.20	100.00	95.00	85.00	70.00
SLA41245B-70L	70.00	50.40	0.20	93.00	80.00	76.00	70.00
SLA41245B-85L	85.00	61.20	0.20	70.00	63.00	60.00	70.00
SLA41245B-100L	100.00	72.00	0.20	57.00	53.00	50.00	70.00
SLA41245B-120L	120.00	86.40	0.20	54.00	50.00	48.00	70.00
SLA41245B-150L	150.00	108.00	0.20	42.00	38.00	36.00	70.00
SLA41245B-170L	170.00	122.40	0.20	37.00	33.00	31.00	70.00
SLA41245B-180L	180.00	129.60	0.20	32.00	29.00	27.00	70.00
SLA41245B-220L	220.00	158.40	0.20	27.00	25.00	23.00	70.00
SLA41245B-330L	330.00	237.60	0.20	17.00	15.00	14.00	70.00

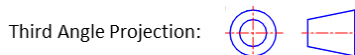
3. Mechanical Dimension(Unit : mm):

A	B	C	E	F	G
Max.	Max.	Max.	Nom.	± 0.20	± 0.25
4.60	10.20	6.00	5.20	4.10	2.50



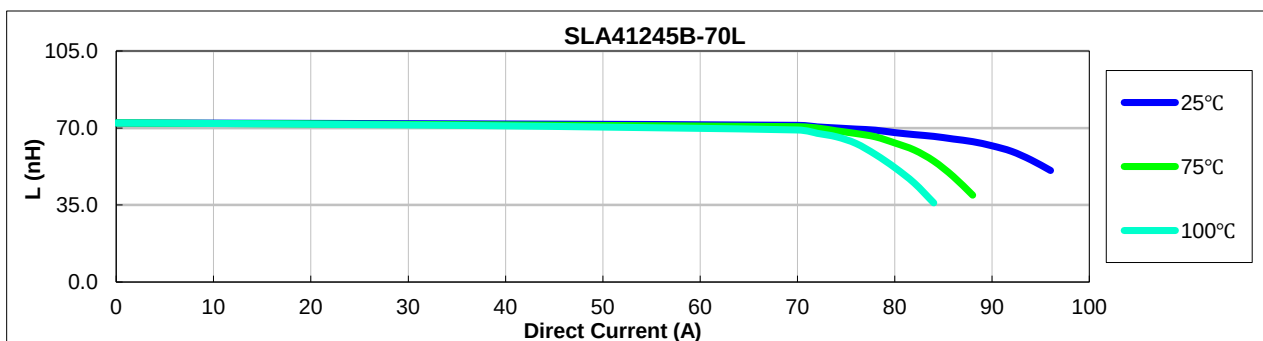
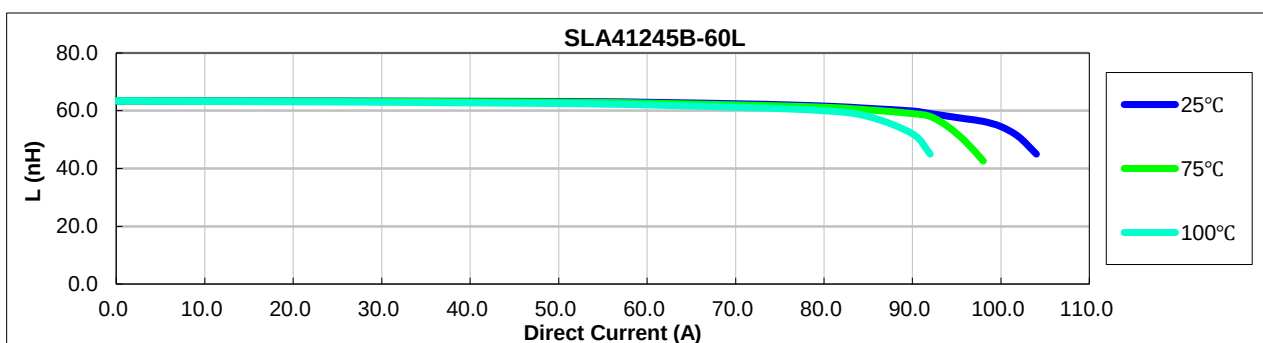
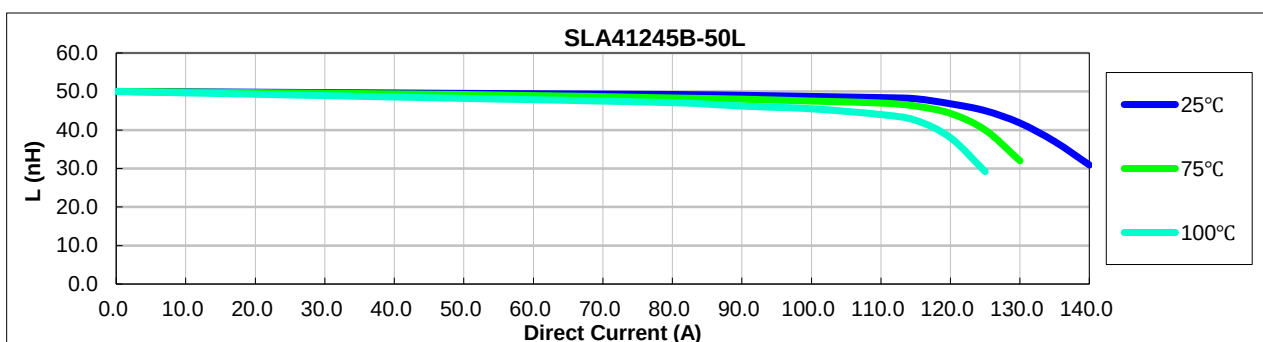
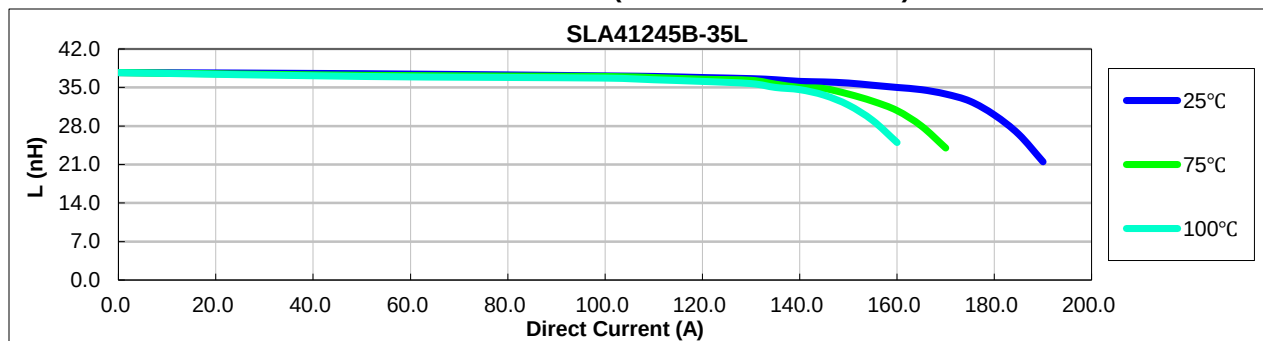
Notes:

1. Open Circuit Inductance (OCL) test condition:500KHz,0.25Vrms,0A_{dc} ,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.



Third Angle Projection:

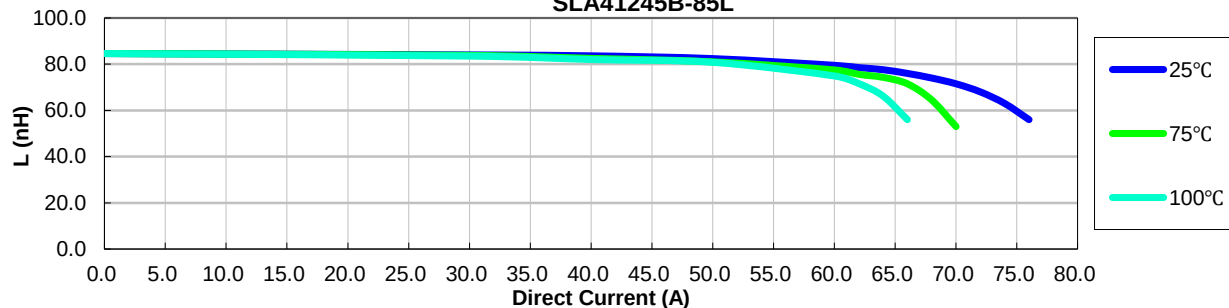
4. Inductance Characteristics of SLA41245B Series (Inductance vs Current):



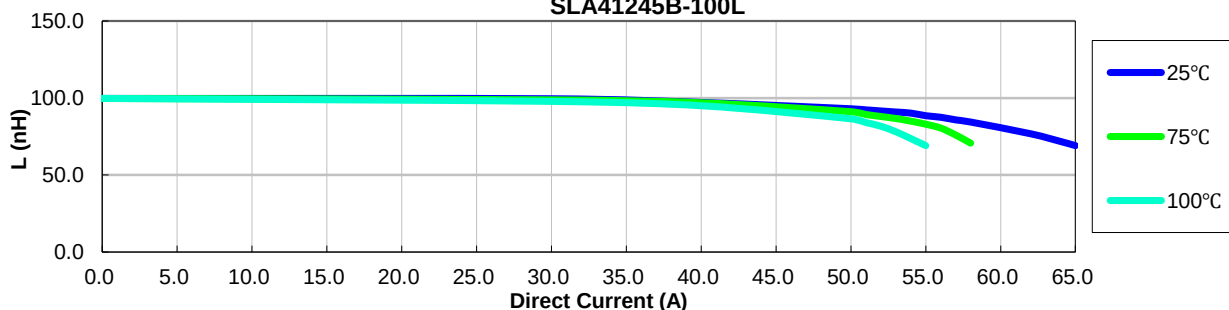
SLA41245B Series



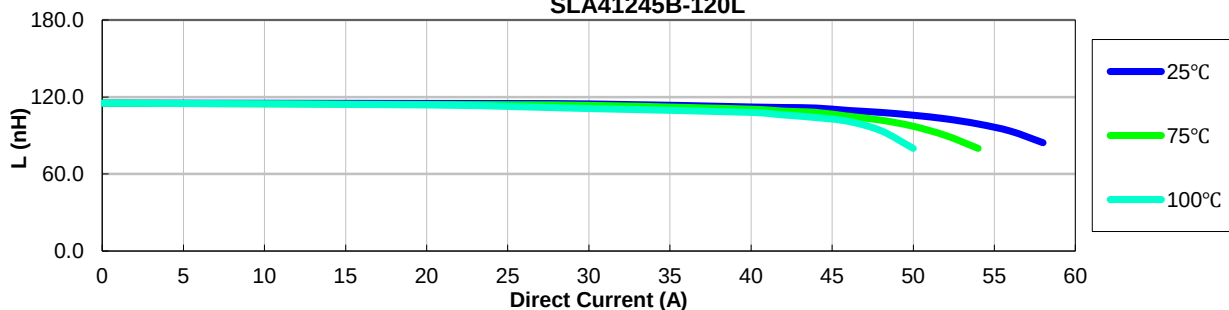
SLA41245B-85L



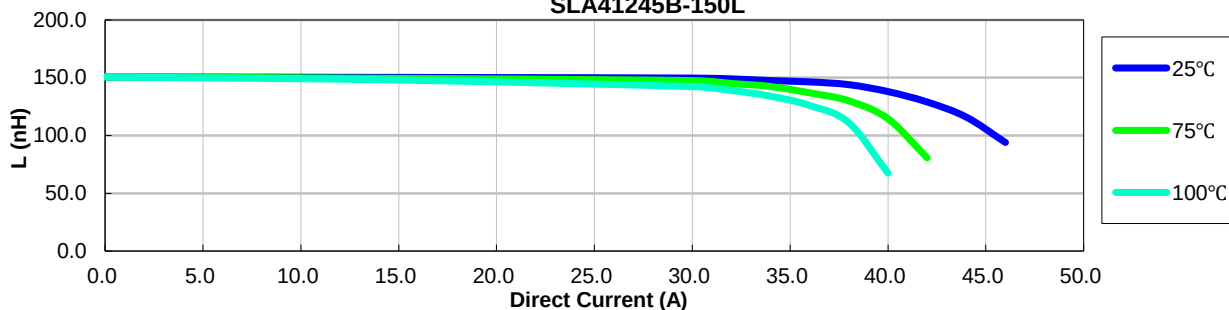
SLA41245B-100L



SLA41245B-120L



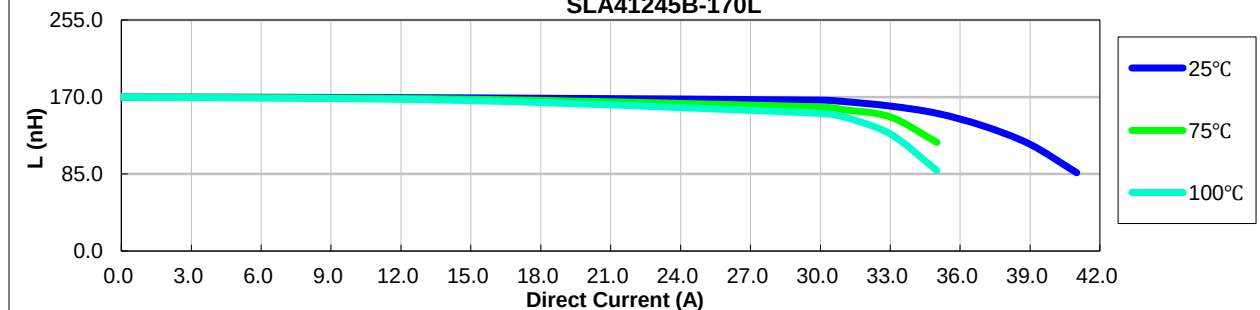
SLA41245B-150L



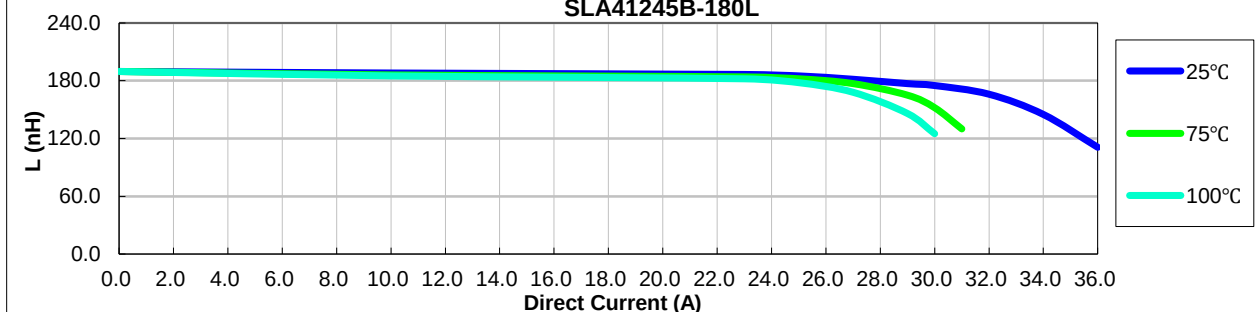
SLA41245B Series



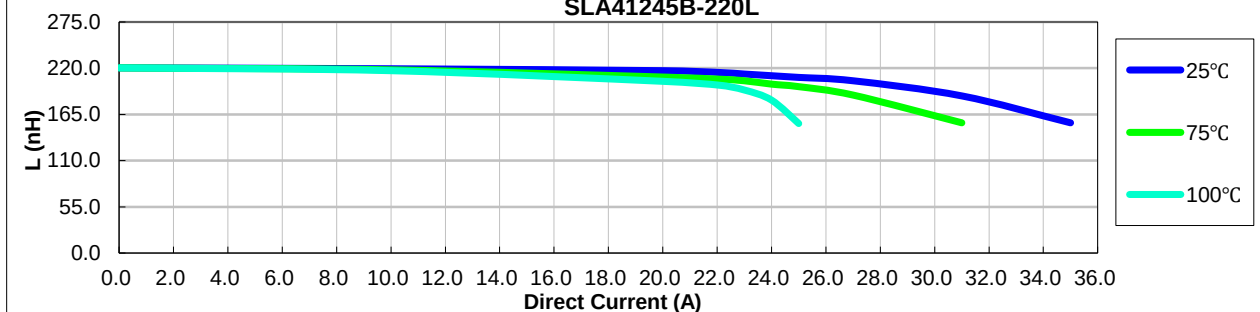
SLA41245B-170L



SLA41245B-180L



SLA41245B-220L



SLA41245B-330L

