SLA40476B Series

1. Features of SLA40476B Series :



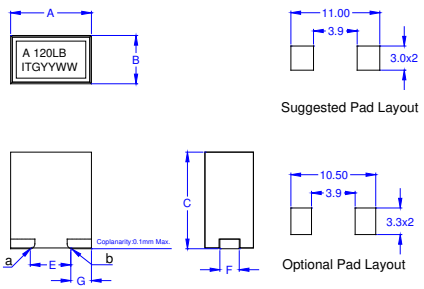
- Ferrite based SMD inductor with lower core loss.
- Inductance Range: 70.0nH to 580.0nH, Custom values are welcomed.
- High current output chokes, up to 170.0 Amp with approx. 20% roll off.
- Low Profile 12.00 mm Max. height .
- Foot Print 10.00 x 6.00 mm .
- Perfect for high density designs with limited board space.
- Operating frequency up to 5.0 MHz application.
- Operating Temperature Range -55° C to + 130° C , RoHs & HF compliance .
- T & R Qtys: 300 pcs , 13" Reel ;

2. Electrical Characteristic of SLA40476B Series:

ITG Part Number	OCL [1] (nH) ±15%	L @ Isat1 [2] (nH) Min.	DCR [3] (mΩ) ±10%	Isat1 [4] (A) @25℃	Isat2 [4] (A) @75℃	Isat3 [4] (A) @100℃	Irms [5] (A) @25℃
SLA40476B-70L	70.00	49.00	0.125	170.00	155.00	145.00	77.00
SLA40476B-80L	80.00	56.00	0.125	150.00	135.00	130.00	77.00
SLA40476B-90L	90.00	63.00	0.125	130.00	120.00	110.00	77.00
SLA40476B-100L	100.00	70.00	0.125	125.00	110.00	105.00	77.00
SLA40476B-120L	120.00	84.00	0.125	105.00	93.00	88.00	77.00
SLA40476B-150L	150.00	105.00	0.125	83.00	75.00	70.00	77.00
SLA40476B-220L	220.00	154.00	0.125	60.00	54.00	50.00	77.00
SLA40476B-300L	300.00	210.00	0.125	41.00	38.00	35.00	77.00
SLA40476B-330L	330.00	231.00	0.125	40.00	35.00	32.00	77.00
SLA40476B-470L	470.00	329.00	0.125	27.00	24.00	22.00	77.00
SLA40476B-580L	580.00	406.00	0.125	18.00	17.00	15.00	77.00

3. Mechanical Dimension(Unit : mm):

A Max.	B Max.	C Max.	E ±0.30	F ±0.20	G ±0.20
10.00	6.00	12.00	5.00	2.40	2.40



Third Angle Projection:

Notes:

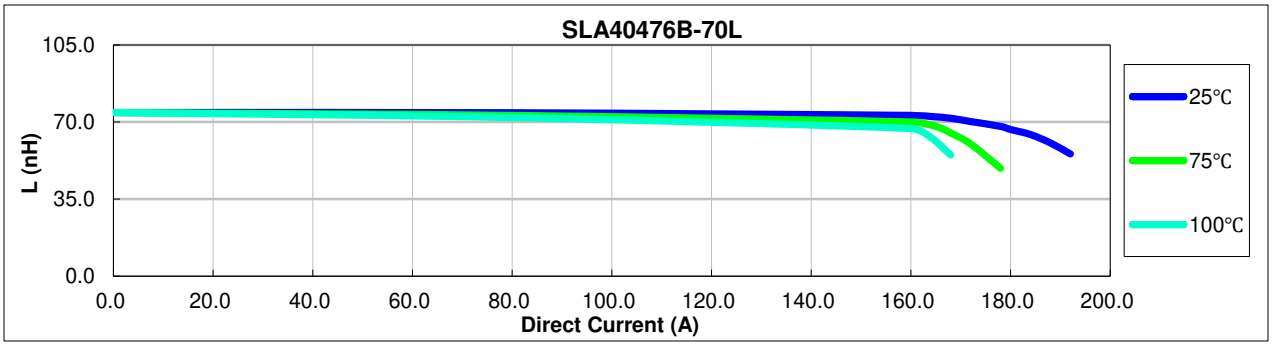
1. Open Circuit Inductance (OCL) test condition:500KHz,0.25Vrms,0Adc ,at 25 ℃.
2. L @ Isat and L @ Irms Test condition:500KHz,0.25Vrms (Ta=25 ℃).
3. The nominal DCR is measured from point "a" to point "b", as shown above on the mechanical drawing (Ta=25℃).
4. Isat1,Isat2 & Isat3 : DC current that will cause inductance to drop approximately by 20%.
5. Irms: DC current for an approximate temperature rise of 40℃ 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 ℃ under worst case operating conditions verified in the end application.

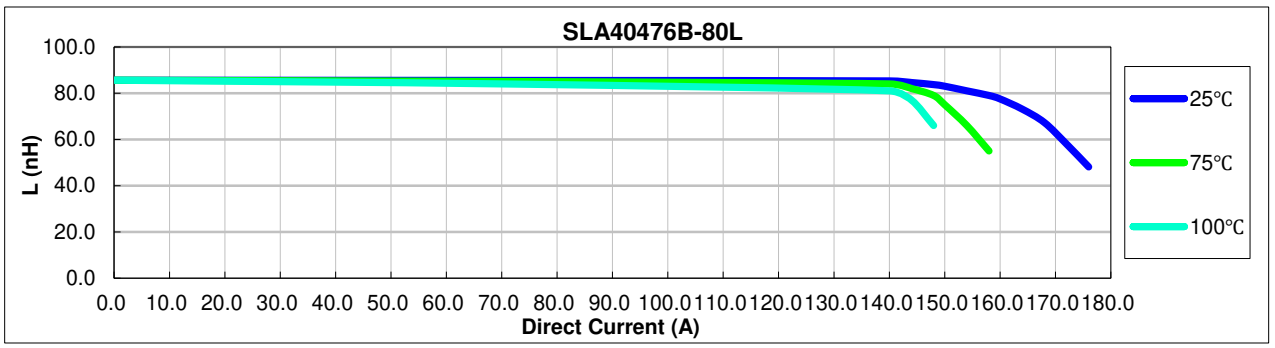
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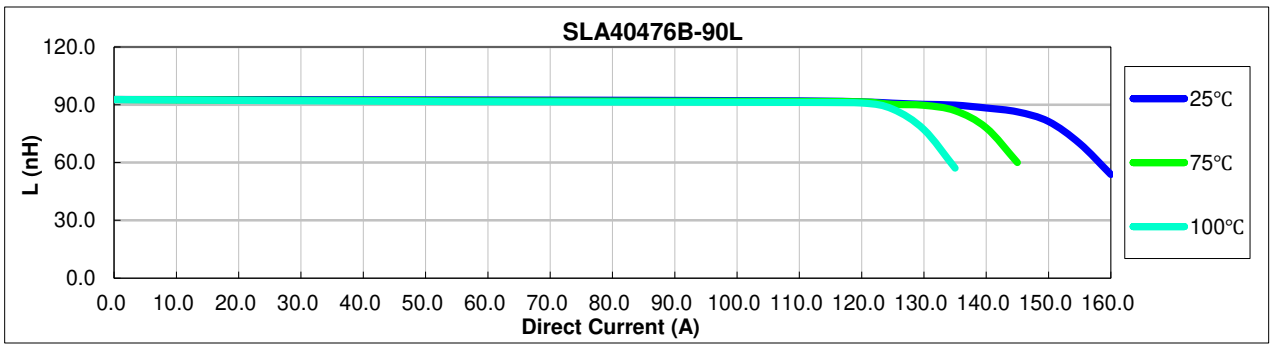
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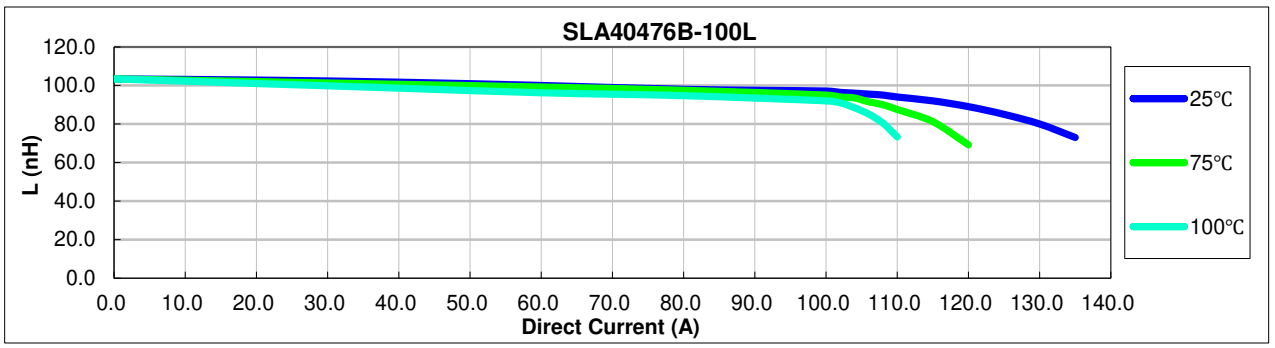
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4. Inductance Characteristics (Inductance vs. Current):



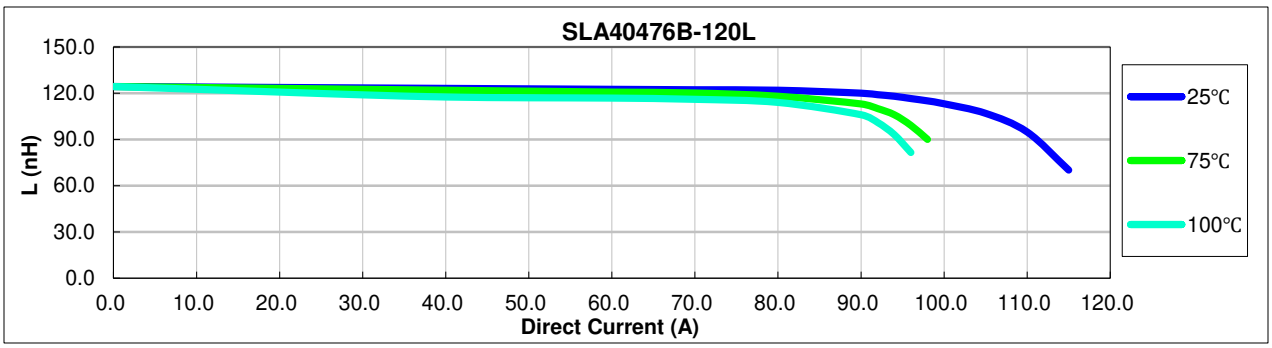


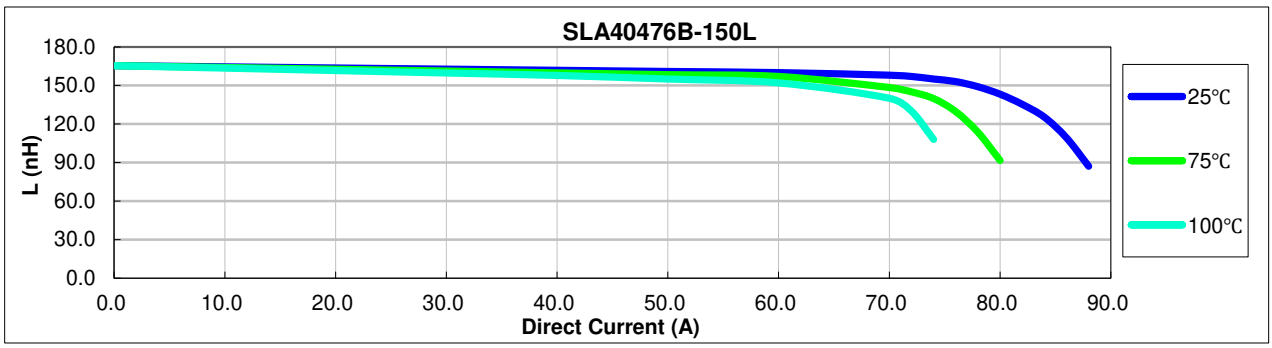


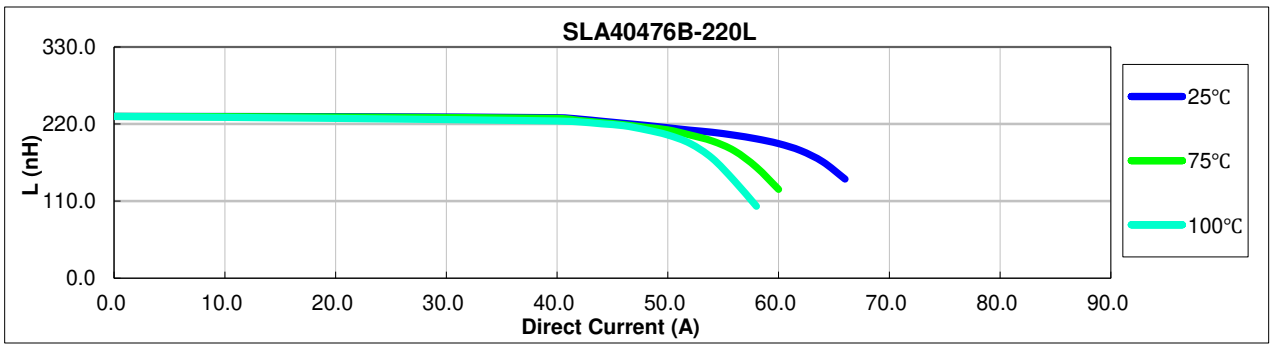


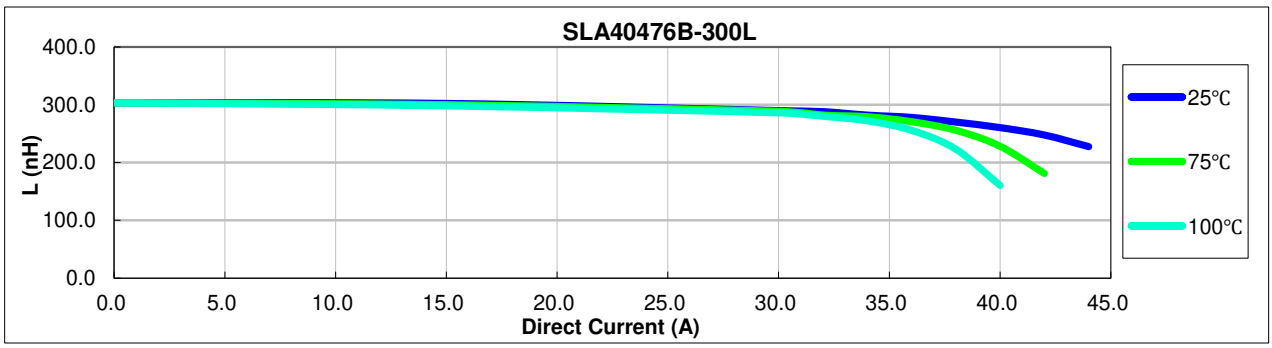
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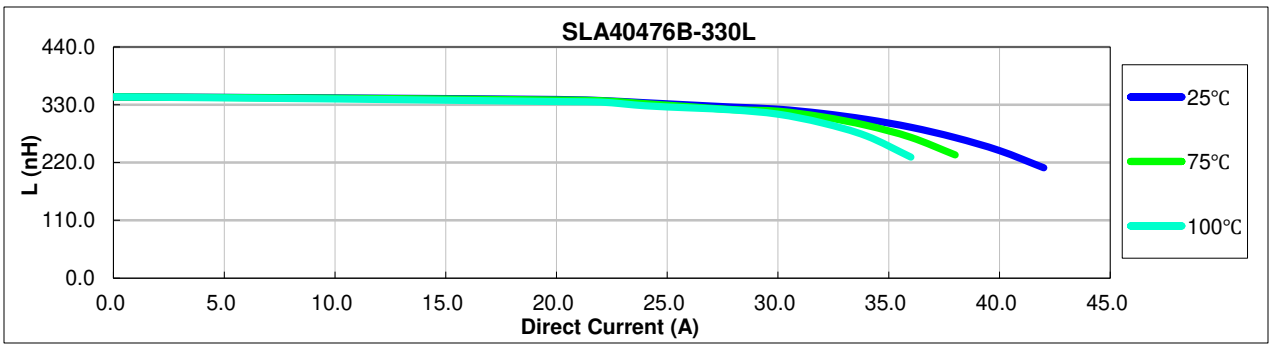


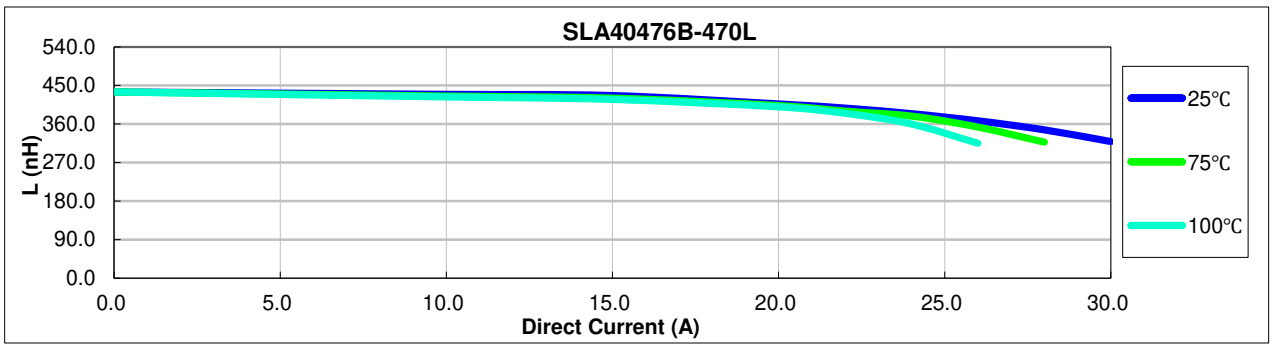


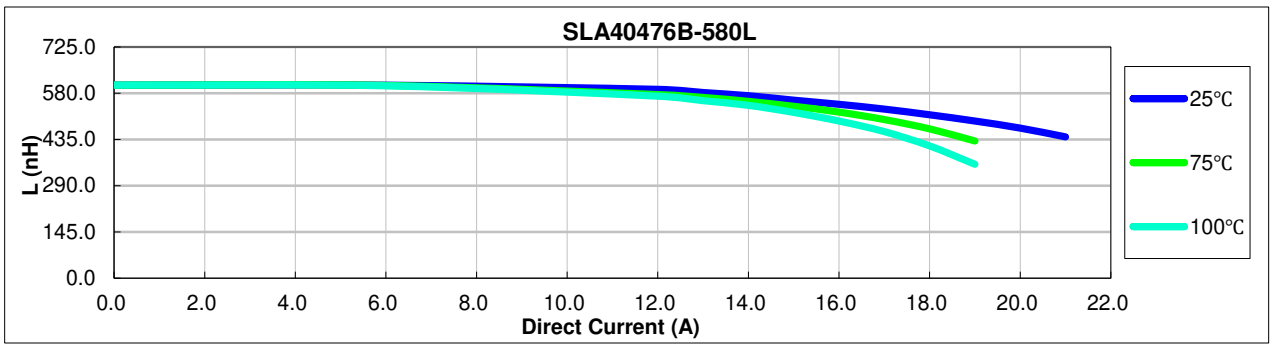
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