

1. Features of SLQ36506A Series :

- Ferrite based SMD inductor with lower core loss.
- Inductance Range: 0.47uH to 3.30uH, Custom values are welcomed.
- High current output chokes, up to 57.0 Amp with approx. 20% roll off.
- Low Profile 12.50 mm Max. height .
- Foot Print 9.00 x 6.60 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 Qty: 300 pcs , 13" Reel ;

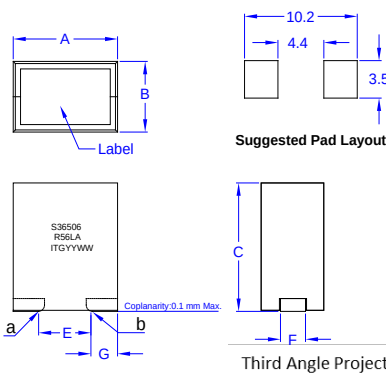


2. Electrical Characteristic of SLQ36506A Series:

ITG Part Number	OCL ¹ (uH) ± 15%	L @ Isat1 ² (uH) Min.	DCR ³ (mΩ) Typ.	DCR ³ (mΩ) Max.	Isat1 ⁴ (A) @25°C	Isat2 ⁴ (A) @75°C	Isat3 ⁴ (A) @100°C	Irms ⁵ (A) @25°C
SLQ36506A-R47L	0.47	0.338	1.15	1.35	57.00	51.00	47.00	25.00
SLQ36506A-R56L	0.56	0.403	1.15	1.35	51.00	45.00	42.00	25.00
SLQ36506A-1R0L	1.00	0.720	1.15	1.35	28.00	25.00	23.00	25.00
SLQ36506A-1R2L	1.20	0.864	1.15	1.35	23.00	21.00	18.00	25.00
SLQ36506A-1R5L	1.50	1.080	1.15	1.35	18.00	16.00	15.00	25.00
SLQ36506A-1R8L	1.80	1.296	1.15	1.35	15.00	14.00	12.00	25.00
SLQ36506A-2R2L	2.20	1.584	1.15	1.35	12.00	11.00	10.00	25.00
SLQ36506A-2R7L	2.70	1.944	1.15	1.35	10.00	9.00	8.00	25.00
SLQ36506A-3R3L	3.30	2.376	1.15	1.35	7.50	6.50	6.00	25.00

3. Mechanical Dimension(Unit : mm):

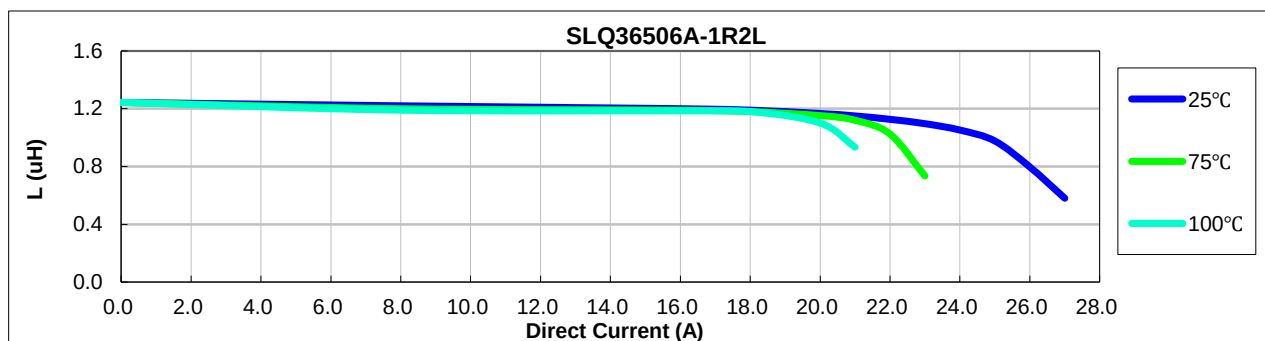
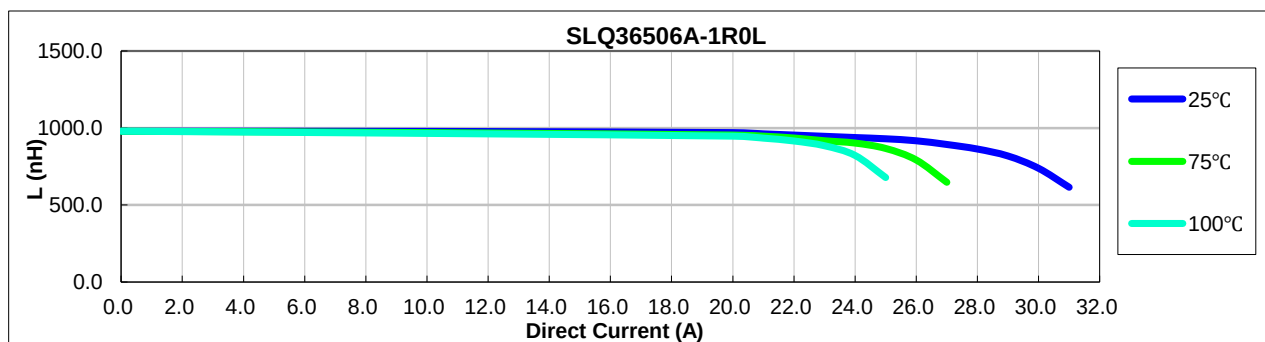
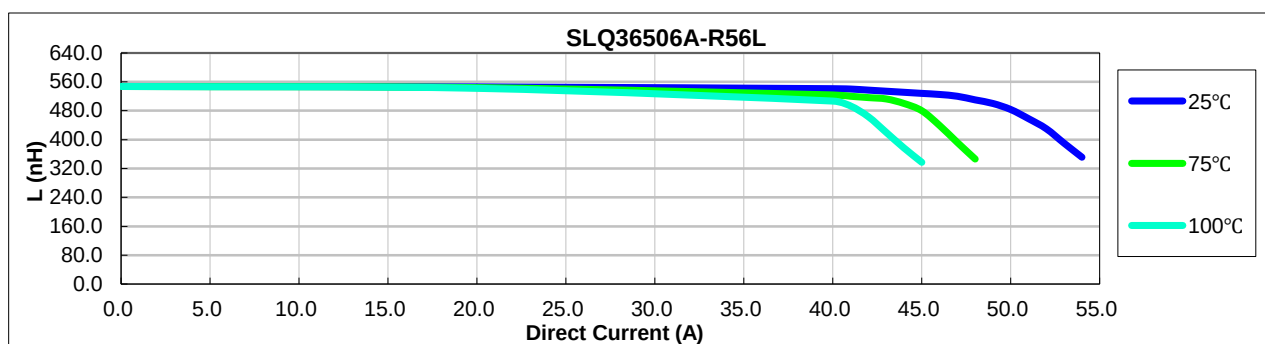
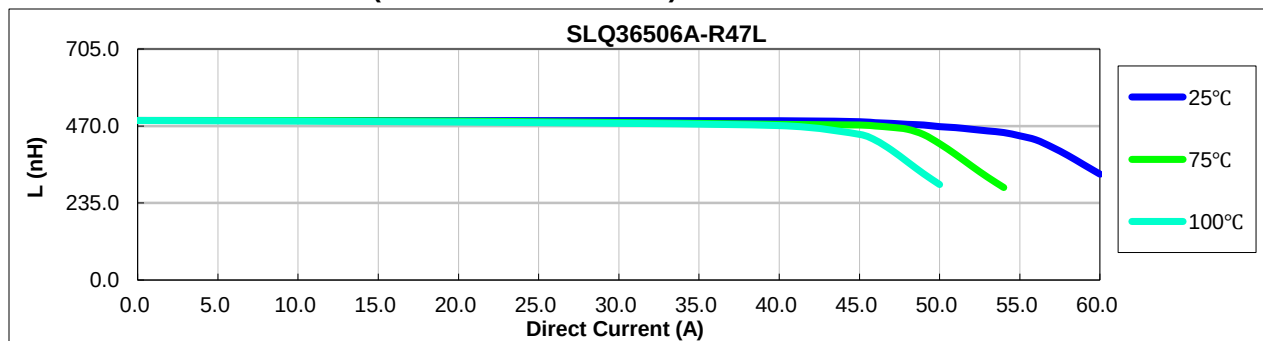
A	B	C	E	F	G
Max.	Max.	Max.	± 0.30	± 0.20	± 0.20
9.00	6.60	12.50	5.00	3.00	1.90



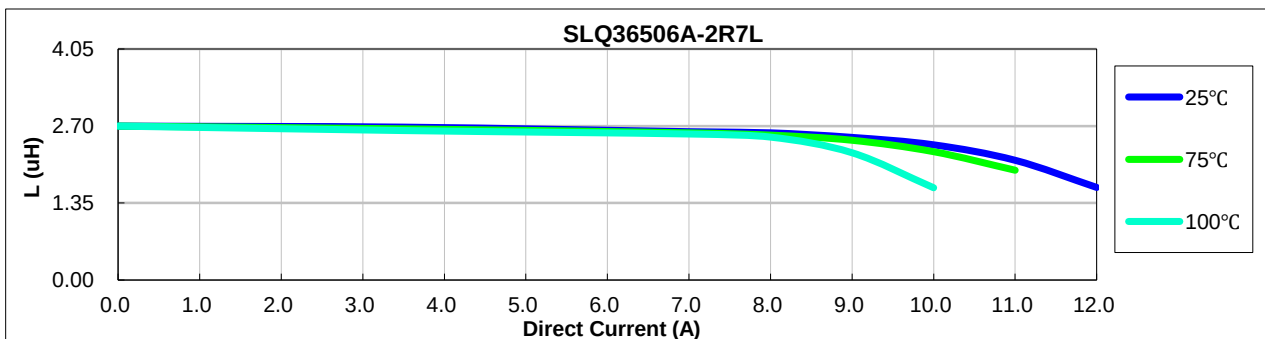
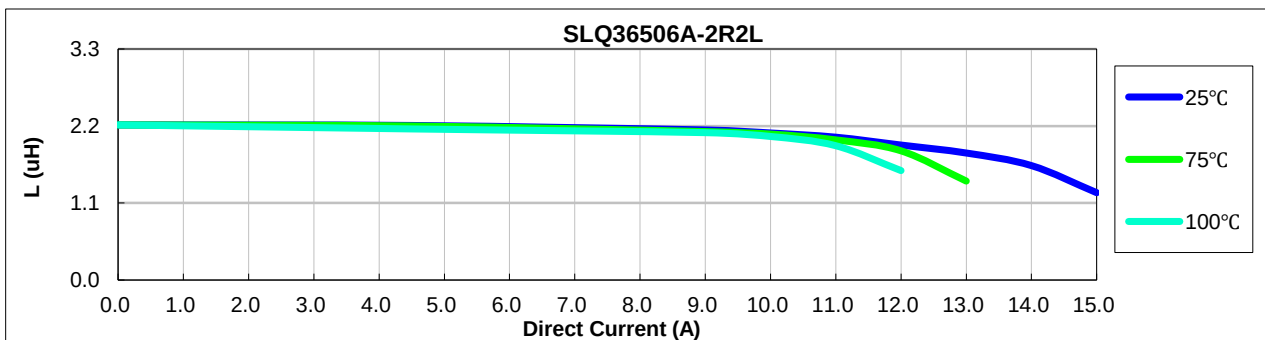
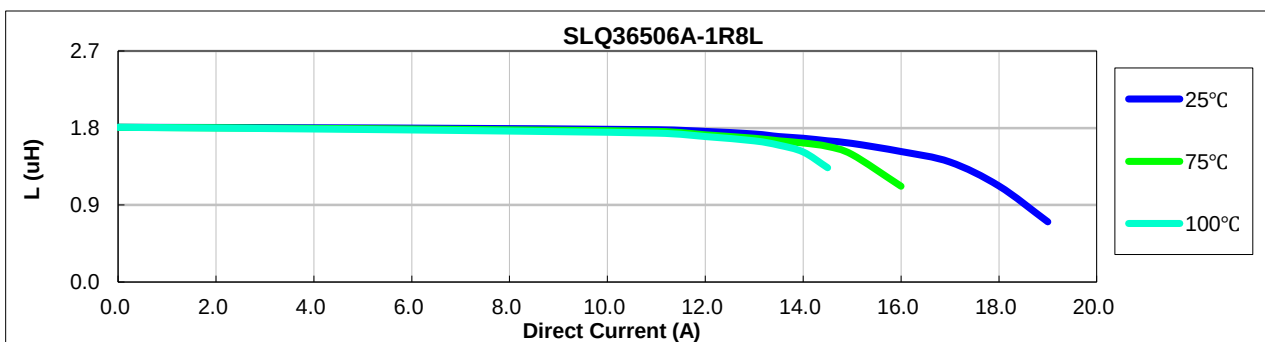
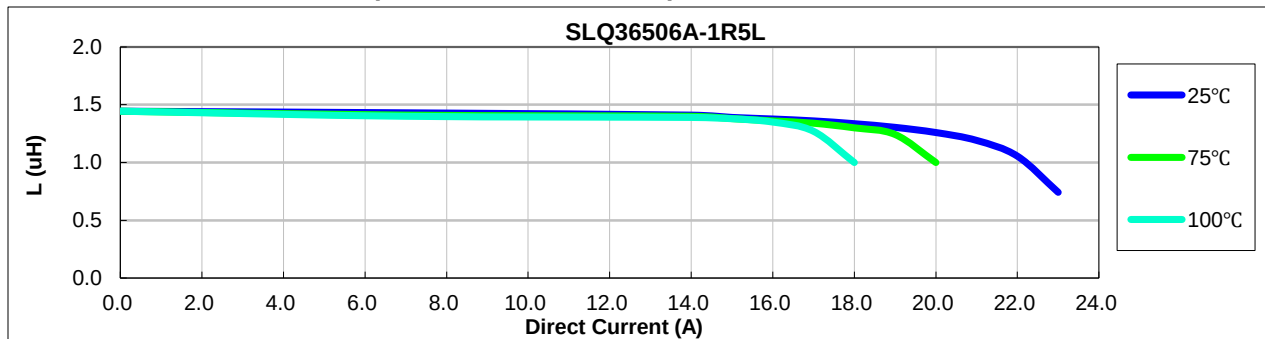
Notes:

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.

4. Inductance Characteristics (Inductance vs. Current):



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