

1. Features of SLQ36386A Series :

- Ferrite based SMD inductor with lower core loss.
- Inductance Range: 0.36uH to 2.70uH, Custom values are welcomed.
- High current output chokes, up to 55.0 Amp with approx. 20% roll off.
- Low Profile 9.50 mm Max. height .
- Foot Print 9.00 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: 500 pcs , 13" Reel ;

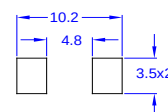
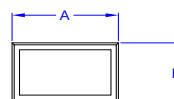


2. Electrical Characteristic of SLQ36386A Series:

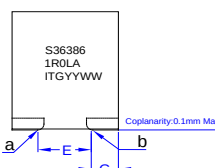
ITG Part NumberAR	OCL ¹ (uH) ± 15%	L @ Isat1 ² (uH) Min.	DCR ³ (mΩ) Typ.	DCR ³ (mΩ) Max.	Isat1 ⁴ (A) @25°C	Isat2 ⁴ (A) @75°C	Isat3 ⁴ (A) @100°C	Irms ⁵ (A) @25°C
SLQ36386A-R36L	0.36	0.259	1.300	2.500	55.00	50.00	47.00	21.00
SLQ36386A-R47L	0.47	0.338	1.300	2.500	43.00	38.00	36.00	21.00
SLQ36386A-R62L	0.62	0.446	1.300	2.500	33.00	29.00	27.00	21.00
SLQ36386A-1R0L	1.00	0.720	1.300	2.500	18.00	16.00	15.00	21.00
SLQ36386A-1R5L	1.50	1.080	1.300	2.500	11.00	10.00	9.00	21.00
SLQ36386A-2R2L	2.20	1.584	1.300	2.500	7.00	6.00	5.50	21.00
SLQ36385A-2R7L	2.70	1.944	1.300	2.500	5.50	5.00	4.50	21.00

3. Mechanical Dimension(Unit : mm):

A Max.	B Max.	C Max.	E ± 0.30	F ± 0.20	G ± 0.30
9.00	6.00	9.50	5.40	3.00	1.70



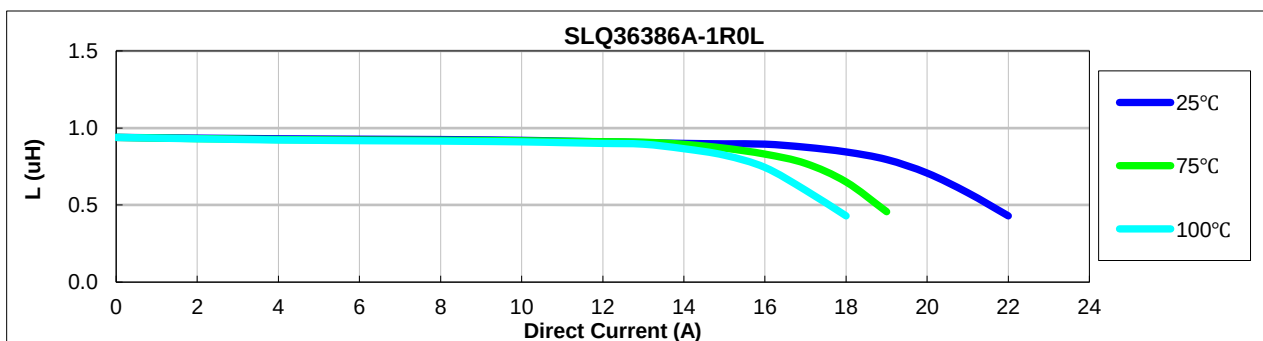
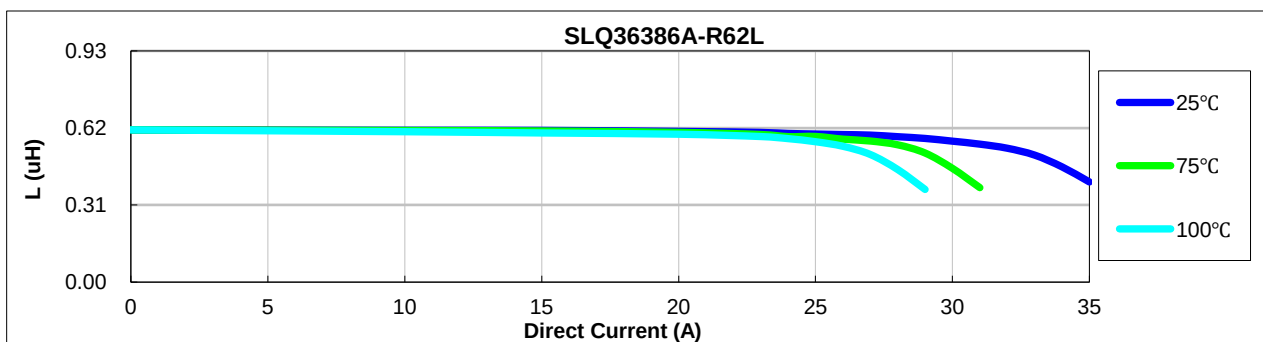
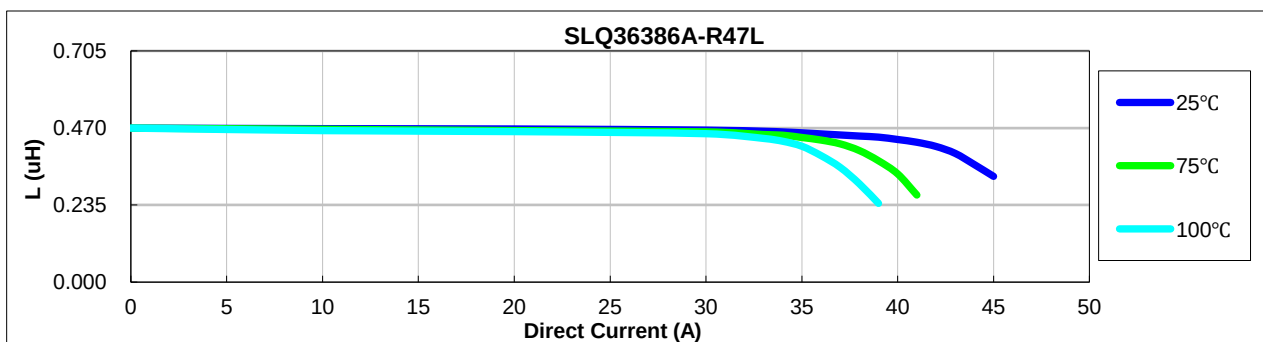
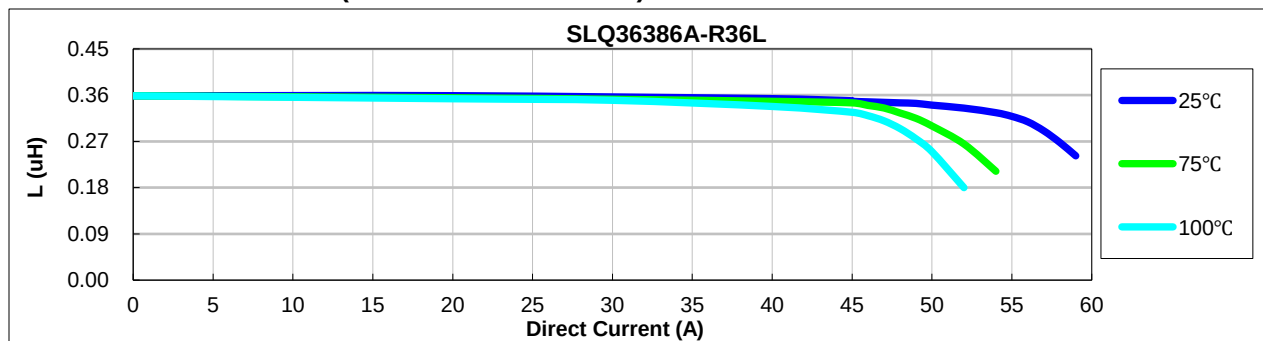
Suggested Pad Layout



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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