

# SLQ36385A Series



## 1. Features of SLQ36385A Series :

- Ferrite based SMD inductor with lower core loss.
- Inductance Range: 0.33uH to 1.5uH, Custom values are welcomed.
- High current output chokes, up to 45.0 Amp with approx. 20% roll off.
- Low Profile 9.50 mm Max. height .
- Foot Print 9.00 x 5.00 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 Qty: 500 pcs , 13" Reel ;

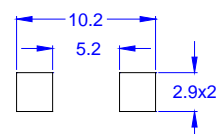
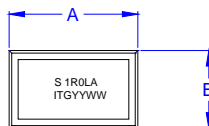


## 2. Electrical Characteristic of SLQ36385A Series:

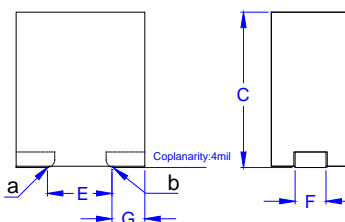
ITG Part Number	OCL <sup>1</sup> (uH) ± 15%	L @ Isat <sub>2</sub> <sup>1</sup> (uH) Min.	DCR <sup>3</sup> (mΩ) Typ.	DCR <sup>3</sup> (mΩ) Max.	Isat1 <sup>4</sup> (A) @25°C	Isat2 <sup>4</sup> (A) @75°C	Isat3 <sup>4</sup> (A) @100°C	Irms <sup>5</sup> (A) @25°C
SLQ36385A-R33L	0.33	0.24	0.950	1.100	45.00	40.00	38.00	25.00
SLQ36385A-R47L	0.47	0.34	0.950	1.100	28.00	25.00	23.00	25.00
SLQ36385A-R56L	0.56	0.40	0.950	1.100	21.00	19.00	18.00	25.00
SLQ36385A-R68L	0.68	0.49	0.950	1.100	18.00	16.00	15.00	25.00
SLQ36385A-1R0L	1.00	0.72	0.950	1.100	12.00	11.00	10.00	25.00
SLQ36385A-1R2L	1.20	0.86	0.950	1.100	10.00	9.00	8.00	25.00
SLQ36385A-1R5L	1.50	1.08	0.950	1.100	7.50	7.00	6.50	25.00

## 3. Mechanical Dimension(Unit : mm):

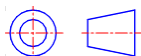
A	B	C	E	F	G
Max.	Max.	Max.	± 0.40	± 0.20	± 0.30
9.00	5.00	9.50	6.20	2.20	1.40



Suggested Pad Layout



Third Angle Projection:



## Notes:

1. Open Circuit Inductance (OCL) test condition:500KHz,0.25Vrms,0Adc ,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.

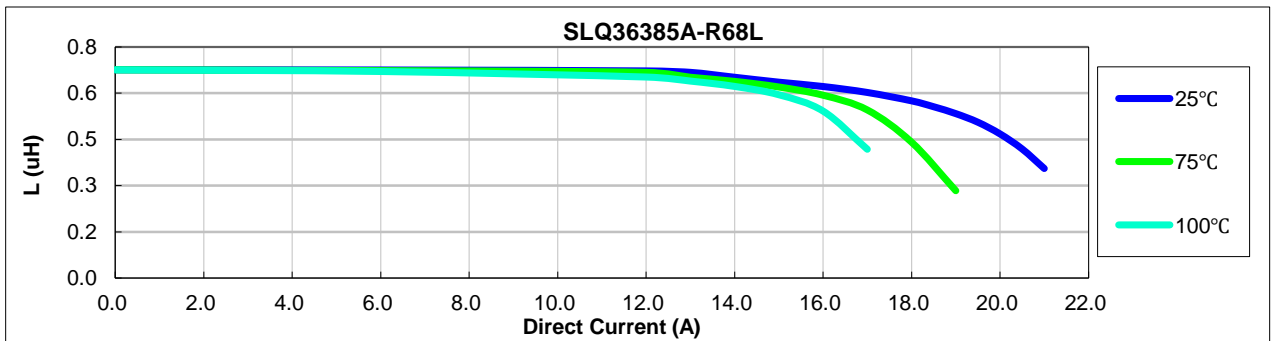
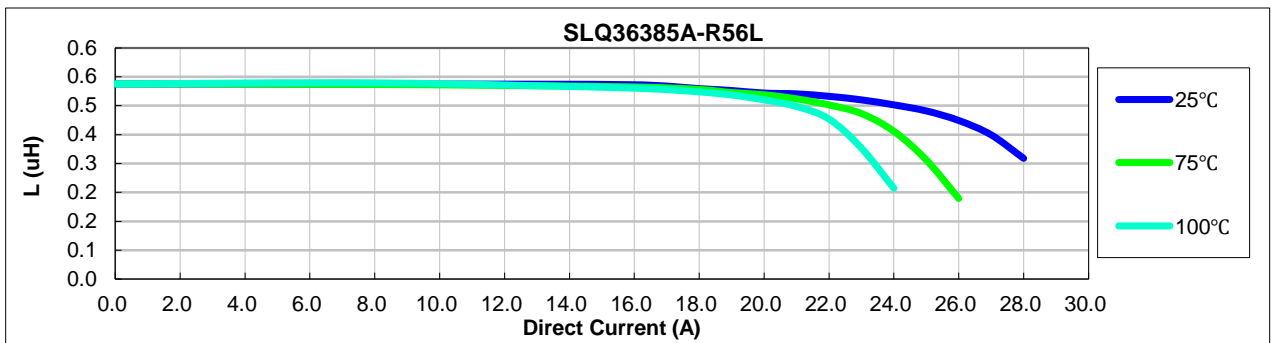
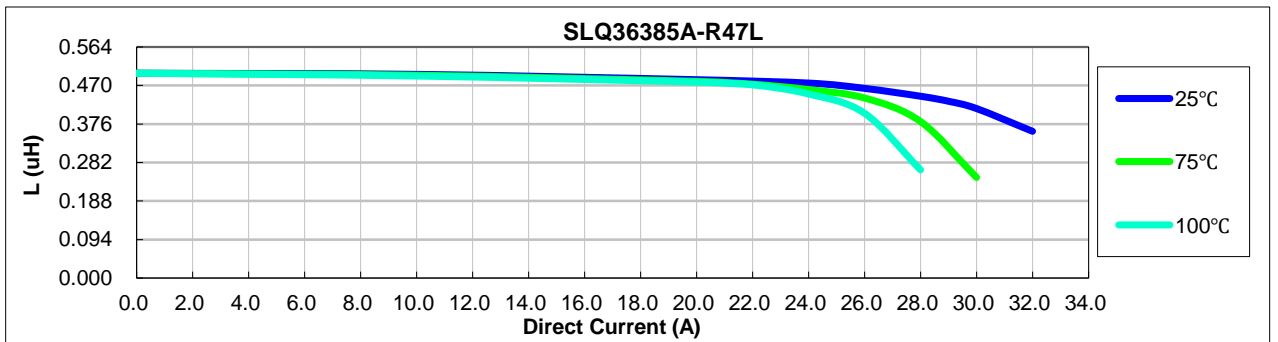
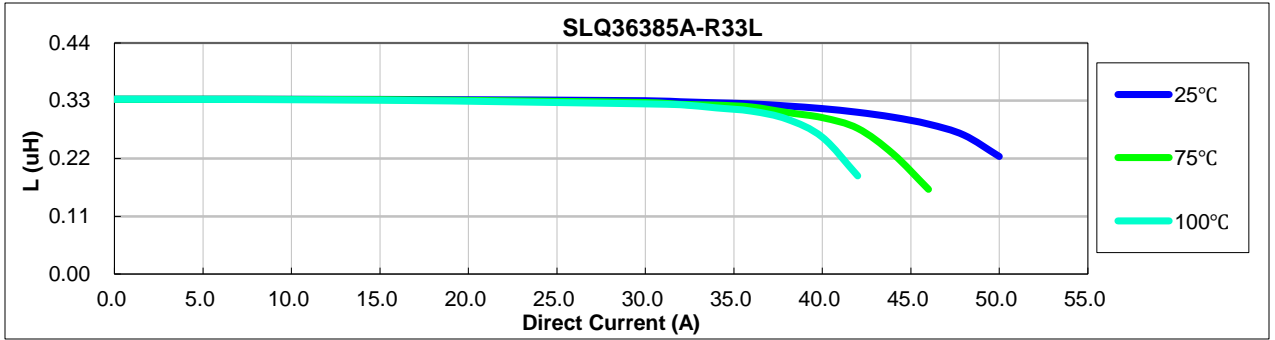


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Halogen Free

## 4. Inductance Characteristics of SLQ36385A Series (Inductance vs Current):



● New York 1 914 347 2474 ● Taipei 886 2 2698 8669 ● Kaohsiung 886 7 350 2275  
 ● Japan 81 568 85 2830 ● Shenzhen 86 755 8418 6263 ● Shanghai 86 21 5424 5141 ● Hong Kong 852 9688 9767  
 ● sales@ITG-Electronics.com ● [www.ITG-Electronics.com](http://www.ITG-Electronics.com) Revision B.2: Aug. 05, 2021

\*Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.



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