

1. Features of SLQ40407A Series :

- Ferrite based SMD inductor with lower core loss.
- Inductance Range: 0.20uH to 1.50uH, Custom values are welcomed.
- High current output chokes, up to 96.0 Amp with approx. 20% roll off.
- Low Profile 10.00 mm Max. height .
- Foot Print 10.00 x 7.00 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 ;

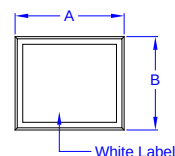
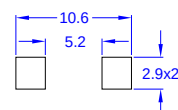


2. Electrical Characteristic of SLQ40407A Series:

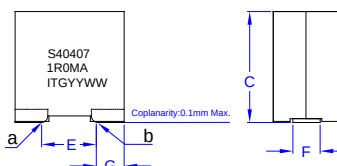
ITG Part Number	OCL ¹ (uH) ± 20%	L @ Isat1 ² (uH) Min.	DCR ³ (mΩ) Typ.	DCR ³ (mΩ) Max.	Isat1 ⁴ (A) @25°C	Isat2 ⁴ (A) @75°C	Isat3 ⁴ (A) @100°C	Irms ⁵ (A) @25°C
SLQ40407A-R20MHF	0.20	0.144	0.73	0.85	96.00	85.00	80.00	31.00
SLQ40407A-R33MHF	0.33	0.238	0.73	0.85	65.00	57.00	54.00	31.00
SLQ40407A-R47MHF	0.47	0.338	0.73	0.85	42.00	38.00	35.00	31.00
SLQ40407A-R56MHF	0.56	0.403	0.73	0.85	36.00	32.00	30.00	31.00
SLQ40407A-R68MHF	0.68	0.490	0.73	0.85	27.00	24.00	22.00	31.00
SLQ40407A-1R0MHF	1.00	0.720	0.73	0.85	17.50	15.50	15.00	31.00
SLQ40407A-1R2MHF	1.20	0.864	0.73	0.85	13.50	12.00	11.00	31.00
SLQ40407A-1R5MHF	1.50	1.080	0.73	0.85	10.00	9.50	8.50	31.00

3. Mechanical Dimension(Unit : mm):

A	B	C	E	F	G
Max.	Max.	Max.	± 0.30	± 0.20	± 0.30
10.00	7.00	10.00	4.80	2.50	2.00



Suggested Pad Layout

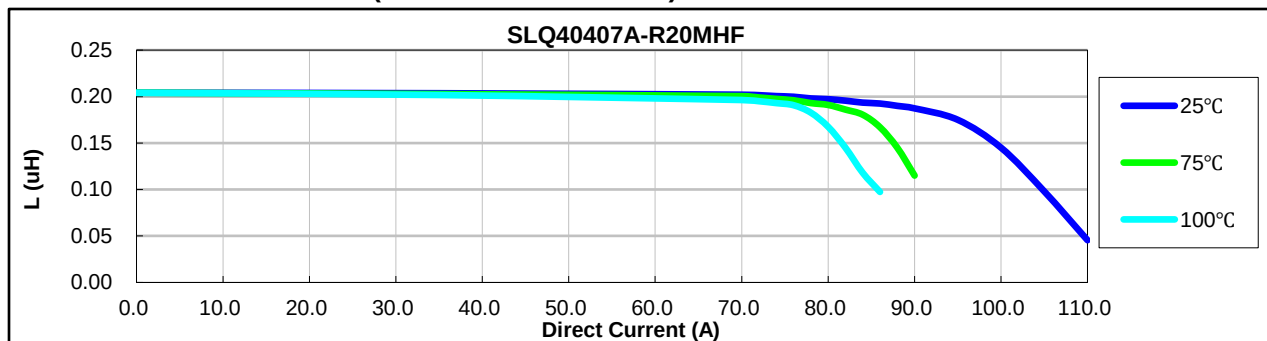
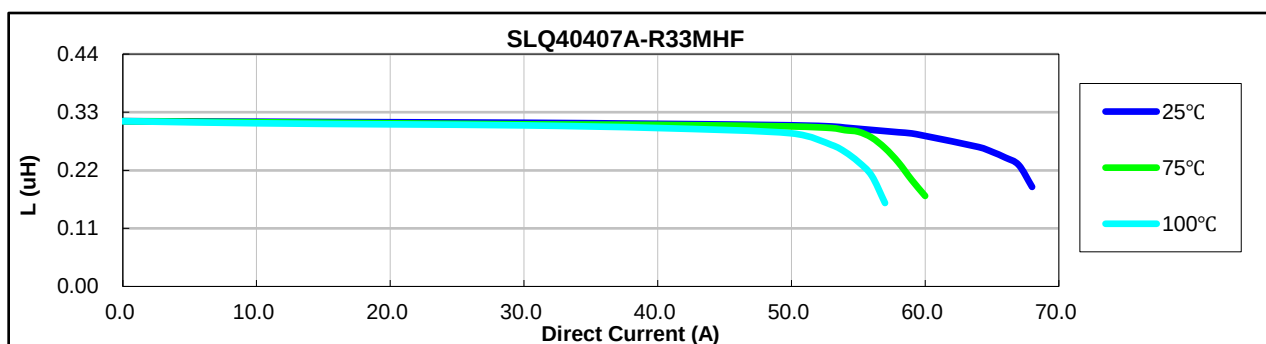
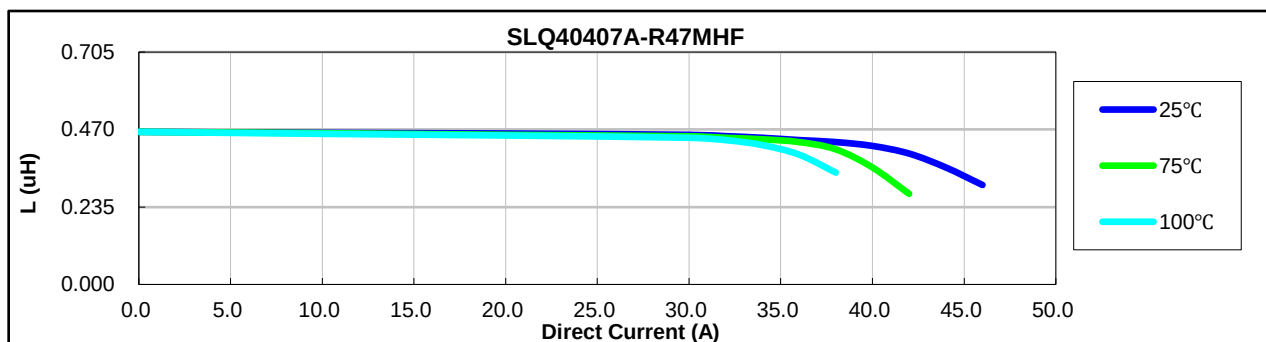
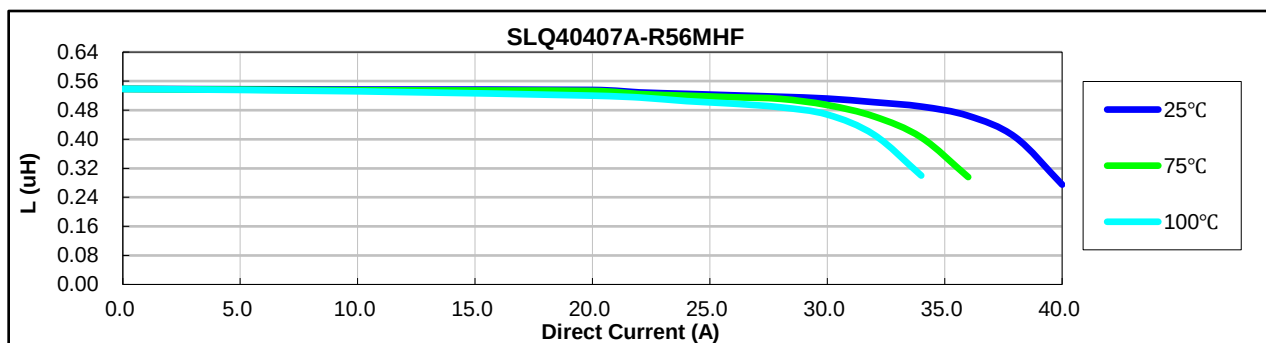


Notes:

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.



4. Inductance Characteristics (Inductance vs. Current):



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