

1. Features of SLR3747A Series :

- Ferrite based SMD inductor with lower core loss.
- Inductance Range: 70.0nH to 300.0nH, Custom values are welcomed.
- High current output chokes, up to 155.0 Amp with approx. 20% roll off.
- Low Profile 12.0 mm Max. height .
- Foot Print 9.60 x 6.40 mm .
- Co-Layout Single Inductor for AHA3747A Series of TLVR Inductor.
- Operating frequency up to 5.0 MHz application.
- Operating Temperature Range -55° C to +130° C , RoHs & HF compliance .
- T & R Qtys: 400 pcs , 13" Reel ;

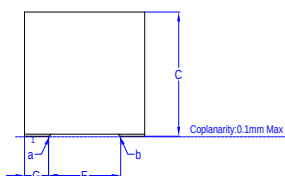
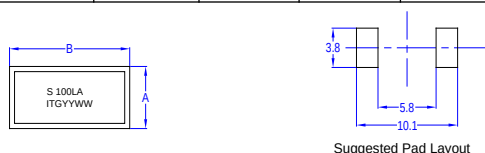


2. Electrical Characteristic of SLR3747A Series:

ITG Part Number	OCL ¹ (nH) ± 15%	L @ Isat1 ² (nH) Min.	DCR ³ (mΩ) ± 10%	Isat1 ⁴ (A) @25°C	Isat2 ⁴ (A) @75°C	Isat3 ⁴ (A) @100°C	Irms ⁵ (A) @25°C
SLR3747A-70L	70.00	50.00	0.145	155.00	145.00	135.00	72.00
SLR3747A-100L	100.00	72.00	0.145	110.00	102.00	95.00	72.00
SLR3747A-120L	120.00	86.00	0.145	92.00	85.00	80.00	72.00
SLR3747A-300L	300.00	216.00	0.145	39.00	36.00	33.00	72.00

3. Mechanical Dimension(Unit : mm):

A	B	C	E	F	G
Max.	Max.	Max.	± 0.20	± 0.20	± 0.20
6.40	9.60	12.00	6.30	3.30	1.55



Part Marking:
S 100LA: S is part code, 100 is inductance value in nH,
L = tolerance, A is special code.
ITGYYWW: ITG logo and YYWW is date code.

Third Angle Projection:

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):

