

1. Features of SLA3740A Series :

- Ferrite based SMD inductor with lower core loss.
- Inductance Range: 70.0nH to 100.0nH, Custom values are welcomed.
- High current output chokes, up to 125.0 Amp with approx. 20% roll off.
- Low Profile 10.0 mm Max. height .
- Foot Print 9.60 x 6.40 mm .
- Co-Layout Single Inductor for AHA3740A 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: 500 pcs , 13" Reel ;

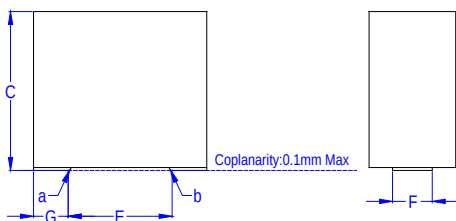
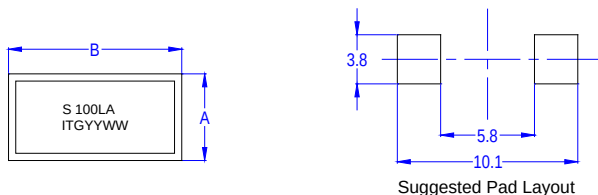


2. Electrical Characteristic of SLA3740A Series:

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
SLA3740A-70L	70.00	50.40	0.125	125.00	115.00	110.00	71.00
SLA3740A-100L	100.00	72.00	0.125	92.00	88.00	82.00	71.00

3. Mechanical Dimension(Unit : mm):

A	B	C	E	F	G
Max.	Max.	Max.	± 0.20	± 0.20	± 0.20
6.40	9.60	10.00	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,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):

