

1. Features of SLA3747A Series :

- Ferrite based SMD inductor with lower core loss.
- Inductance Range: 70.0nH to 400.0nH, Custom values are welcomed.
- High current output chokes, up to 200.0 Amp with approx. 20% roll off.
- Low Profile 12.00 mm Max. height .
- Foot Print 9.60 x 6.40 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 : 300 pcs , 13" Reel ;

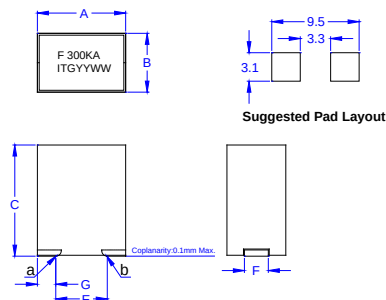


2. Electrical Characteristic of SLA3747A Series:

ITG Part Number	OCL ¹ (nH) ± 10% or ± 15%	L @ Isat1 ² (nH) Min.	DCR ³ (mΩ) ± 7%	Isat1 ⁴ (A) @25°C	Isat2 ⁴ (A) @75°C	Isat3 ⁴ (A) @100°C	Irms ⁵ (A) @25°C
SLA3747A-70LHF	70.00	50.00	0.175	200.00	185.00	170.00	65.00
SLA3747A-80LHF	80.00	57.00	0.175	180.00	165.00	155.00	65.00
SLA3747A-90LHF	90.00	64.00	0.175	158.00	148.00	136.00	65.00
SLA3747A-100LHF	100.00	72.00	0.175	140.00	128.00	118.00	65.00
SLA3747A-120LHF	120.00	86.00	0.175	120.00	110.00	102.00	65.00
SLA3747A-150LHF	150.00	108.00	0.175	106.00	98.00	92.00	65.00
SLA3747A-220LHF	220.00	158.00	0.175	66.00	57.00	53.00	65.00
SLA3747A-250LHF	250.00	180.00	0.175	56.00	50.00	46.00	65.00
SLA3747A-300KHF	300.00	216.00	0.175	44.00	40.00	37.00	65.00
SLA3747A-400KHF	400.00	288.00	0.175	34.00	31.00	29.00	65.00

3. Mechanical Dimension(Unit : mm):

A	B	C	E	F	G
Max.	Max.	Max.	± 0.40	± 0.30	± 0.30
9.60	6.40	12.00	3.80	2.60	2.60



Notes:

1. Open Circuit Inductance (OCL) test condition:100KHz,1Vrms,0Adc ,at 25 °C.
2. L @ Isat and L @ Irms Test condition:100KHz,1Vrms (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):

