

1. Features of SLA40475A 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 135.0 Amp with approx. 20% roll off.
- Low Profile 12.0 mm Max. height .
- Foot Print 10.00 x 5.00 mm .
- Operating frequency up to 5.0 MHz application.
- Operating Temperature Range -55 °C to + 130 °C, RoHs & HF compliance .
- T & R Qty: 300 pcs , 13" Reel ;

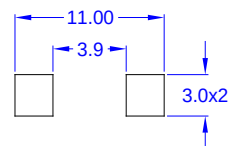
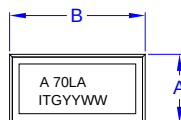


2. Electrical Characteristic of SLA40475A Series:

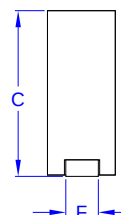
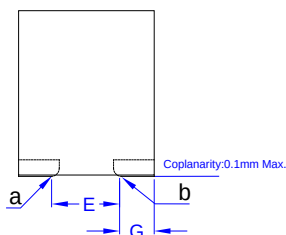
ITG Part Number	OCL ¹ (nH) ± 15%	L @ Isat1 ² (nH) Min.	DCR ³ (mΩ) ± 10%	Isat1 ⁴ (A) @25°C	Isat2 ⁴ (A) @75°C	Isat3 ⁴ (A) @100°C	Irms ⁵ (A) @25°C
SLA40475A-70L	70.00	49.00	0.165	135.00	125.00	120.00	63.00
SLA40475A-80L	80.00	56.00	0.165	118.00	109.00	103.00	63.00
SLA40475A-90L	90.00	63.00	0.165	105.00	97.00	91.00	63.00
SLA40475A-100L	100.00	70.00	0.165	94.00	87.00	82.00	63.00

3. Mechanical Dimension(Unit : mm):

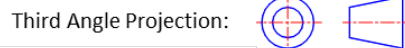
A	B	C	E	F	G
Max.	Max.	Max.	± 0.30	± 0.20	± 0.20
5.00	10.00	12.00	5.00	2.40	2.40



Suggested Pad Layout



Optional 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.

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*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.

4. Inductance Characteristics (Inductance vs. Current):

