

1. Features of SLR41245A Series :

- Ferrite based SMD inductor with lower core loss.
- Inductance Range: 70.0nH to 150.0nH, Custom values are welcomed.
- High current output chokes, up to 100.0 Amp with approx. 20% roll off.
- Low Profile 6.0 mm Max. height .
- Foot Print 10.20 x 5.00 mm .
- Co-Layout Single Inductor for AHA41245A 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: 700 pcs , 13" Reel ;

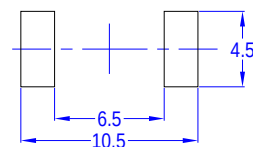
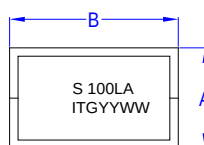


2. Electrical Characteristic of SLR41245A Series:

ITG Part Number	OCL ¹ (nH) ± 15%	L @ Isat1 ² (nH) Min.	DCR1 ³ (mΩ) ± 10%	Isat1 ⁴ (A) @25°C	Isat2 ⁴ (A) @75°C	Isat3 ⁴ (A) @100°C	Irms1 ⁵ (A) @25°C
SLR41245A-70L	70.00	50.40	0.50	100.00	90.00	83.00	45.00
SLR41245A-100L	100.00	72.00	0.50	70.00	62.00	58.00	45.00
SLR41245A-120L	120.00	86.40	0.50	58.00	51.00	48.00	45.00
SLR41245A-150L	150.00	108.00	0.50	45.00	40.00	37.00	45.00

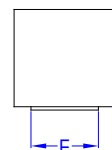
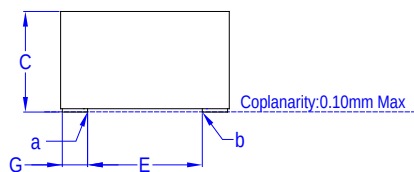
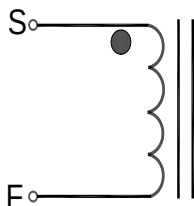
3. Mechanical Dimension(Unit : mm):

A	B	C	E	F	G
Max.	Max.	Max.	± 0.20	± 0.20	± 0.20
5.00	10.20	6.00	6.80	4.00	1.50

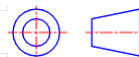


Suggested Pad Layout

4. Schematic:



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):

