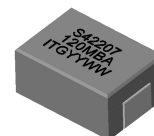


1. Features of SL42207BA Series :

- Alloy core based inductor with soft saturation characteristic.
- Inductance Range: 50.0nH to 120.0nH, Custom values are welcomed.
- High current output chokes, up to 240.0 Amp with approx. 30% roll off.
- Low Profile 5.00 mm Max. height .
- Foot Print 10.60 x 7.50 mm .
- Ideal for Buck Converter, VRM & High Density Board Design.
- Operating frequency up to 5.0 MHz application.
- Operating Temperature Range -55° C to + 130° C , RoHs & HF compliance .
- T & R Qty: 950 pcs , 13" Reel .

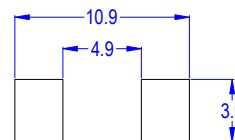
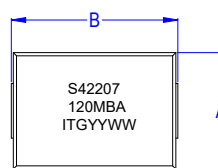


2. Electrical Characteristic of SL42207BA Series:

ITG Part Number	OCL ¹ (nH) ± 20%	L @ Isat1 ² (nH) Min.	DCR ³ (mΩ) ± 10%	Isat1 ¹ (A) @25°C	Irms ⁵ (A) @25°C
SL42207BA-50M	50.00	30.00	0.19	240.00	50.00
SL42207BA-70M	70.00	42.00	0.19	170.00	50.00
SL42207BA-100M	100.00	60.00	0.19	120.00	50.00
SL42207BA-120M	120.00	72.00	0.19	100.00	50.00

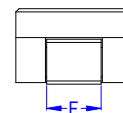
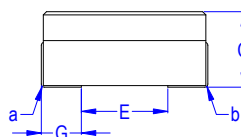
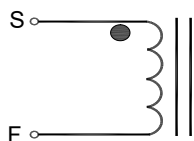
3. Mechanical Dimension(Unit : mm):

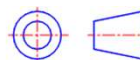
A	B	C	E	F	G
Max.	Max.	Max.	± 0.20	± 0.20	± 0.20
7.50	10.60	5.00	5.40	3.40	2.50



Suggested Pad Layout

4. Schematic:



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: DC current that will cause inductance to drop approximately by 30%.
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):

