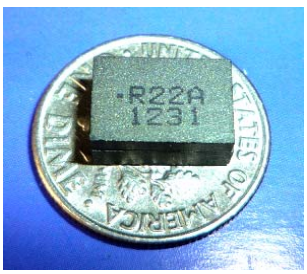
SL40207 Series

1. Features:



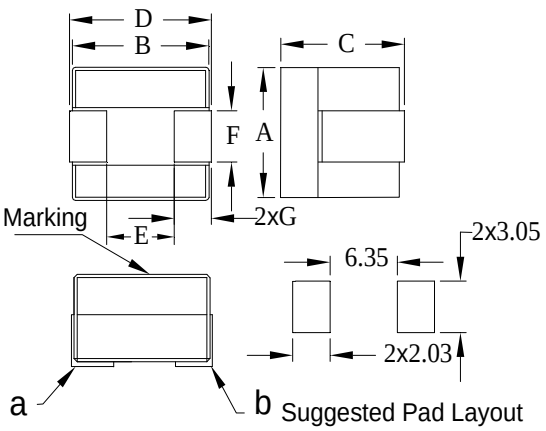
· Ferrite based SMD Inductor with lower core loss.
· Custom values are welcomed.
· High current output chokes, upto 35.0 Amp with approx. 20% roll off.
· Low Profile 4.96mm Max. height .
· Foot Print 10.20 x 7.00 mm Max.
· Ideal for Buck Converter, VRM & High Density Board Design.
· Operating frequency up to 1 MHz application.
· Operating Temperature Range -55°C to + 130°C , RoHs & HF compliance .

2. Electrical Characteristic of SL40207 Series:

Part Number	Inductance (uH) ±10%	DCR (mΩ) ± 7.0%	Isat[1] (A) @25℃	Isat[2] (A) @75℃	Isat[3] (A) @100℃	Irms (A) @25℃
SL40207A-R22KHF	0.22	0.35	35.0	31.0	29.0	33.0

3. Mechanical Dimension(Unit:mm):

A Max.	B Max.	C Max.	D Max.	E Ref.	F Nom.	G Nom.
7.00	10.10	4.96	10.20	6.80	2.50	1.52



Note:
1>.Open Circuit Inductance (OCL) test condition:100KHz,0.1Vrms,0Adc ,at 25℃
2>.Full Load Inductance (FLL) Test condition:100KHz,0.1Vrms ,Isat ;(Ta=25℃).
3>.Isat[1],Isat[2]&Isat[3]: DC current that will cause inductance to drops approximately by 20%
4>. Irms: DC current for an approximate temperature rise of 40℃ 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
5>.The nominal DCR is measured from point "a" to point"b",as shown above on the mechanical drawing

4. Inductance Characteristics (Inductance vs. Current):