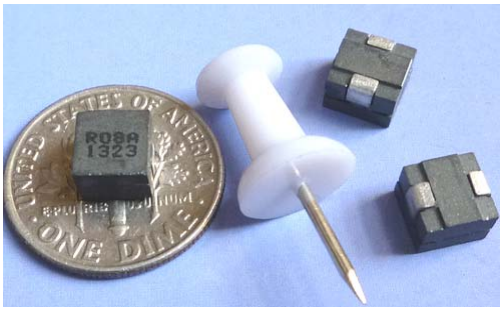
SL2420 Series

1. Features:



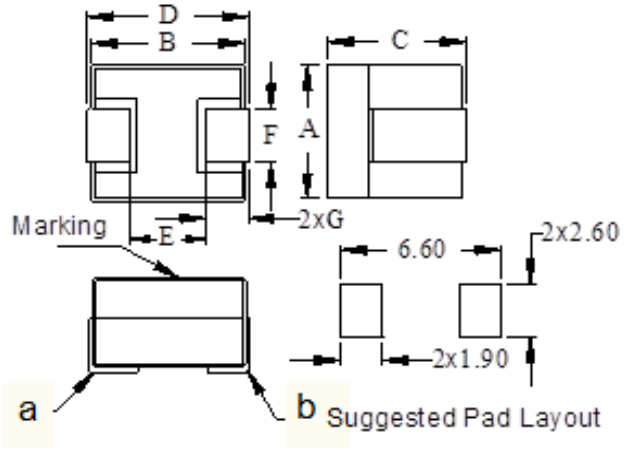
- Ferrite based SMD Inductor with lower core loss.
- Inductance Range:55.0nH to 80.0nH , Custom values are welcomed.
- High current output chokes, upto 70.0 Amp with approx. 20% roll off.
- Low Profile 5.00mm/5.1mm typical Height .
- 6.0 x 6.0mm foot print.
- Ideal for Buck Converter, VRM & High Density Board Design.
- Operating frequency up to 1 MHz application.
- Operating Temperature Range -55°C to + 130°C , RoHs & HF compliance .
- T & R Qtys: 900 pcs , 13" Reel ;

2. Electrical Characteristic of SL2420 Series:

Part Number	Inductance (nH) ±15%	DCR (mΩ) ± 7.0%	Isat[1] (A) @25℃	L@Isat[1] (50nH Typ.) nH(Min.)	Isat[2] (A) @75℃	Isat[3] (A) @100℃	Irms (A) @25℃	Dim. C (mm) Max.
SL2420A-R055LHF	55.00	0.20	73.00	35.00	69.00	62.00	36.00	5.10
SL2420A-R08LHF	80.00	0.20	50.00	56.00	48.00	43.00	36.00	5.00

3. Mechanical Dimension(unit: mm):

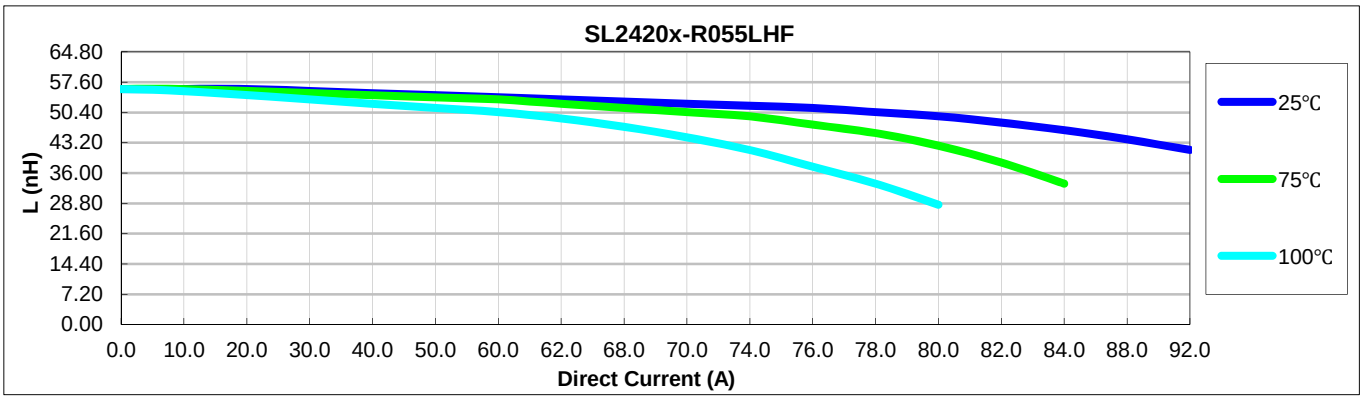
A Max.	B Max.	C Max.	D Max.	E Nom.	F ±0.20	G ±0.2
6.00	5.80	See table	6.00	3.20	2.05	1.35



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):



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Inductance vs. Current