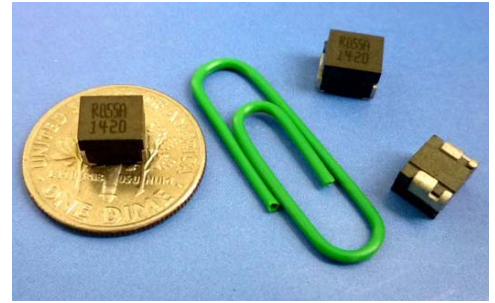


1. Features of SL24206 Series :

- Ferrite based SMD inductor with lower core loss.
- Inductance : 55.00nH , Custom values are welcomed.
- High current output chokes, up to 62.00 Amp with approx. 20% roll off.
- Low Profile 5.20 mm Max. height.
- 6.40 x 5.50 mm Foot Print.
- Ideal for Buck Converter, VRM & High Density Board Design.
- Operating frequency up to 1.0 MHz.
- Operating Temperature Range -55°C to + 130°C. RoHs & HF compliant.
- T & R Qtys: 1000 pcs , 13" Reel.



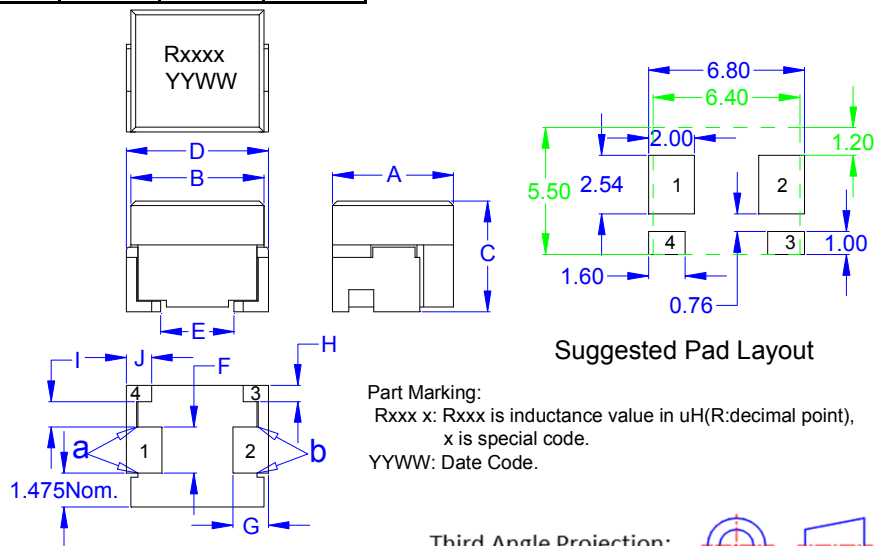
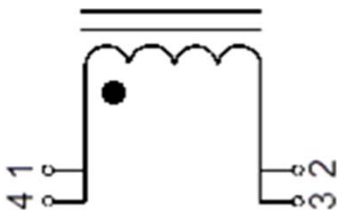
2. Electrical Characteristic of SL24206 Series:

ITG Part Number	OCL ¹ (nH) ± 15%	DCR ³ (mΩ) ± 7.0%	Isat1 ⁴ (A) @25°C	Isat2 ⁴ (A) @75°C	Isat3 ⁴ (A) @100°C	Irms ⁵ (A) @25°C
SL24206A-R055LHF	55.00	0.17	62.00	56.00	50.00	48.00

3. Mechanical Dimension(Unit:mm):

A	B	C	D	E	F	G	H	I	J
Max.	Max.	Max.	Max.	Nom.	± 0.20	± 0.30	Ref.	± 0.15	± 0.30
5.50	6.00	5.20	6.40	3.20	2.00	1.50	0.70	1.10	1.10

4.Schematic Diagram:



Note:

- 1> Open Circuit Inductance (OCL) test condition: 100KHz,0.10Vrms,0Adc at 25°C.
- 2> L @ Isat and L @ Irms Test condition: 100KHz,0.10Vrms (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 as verified in the end application.

Inductance vs. Current

5. Inductance Characteristics (Inductance vs. Current):

