

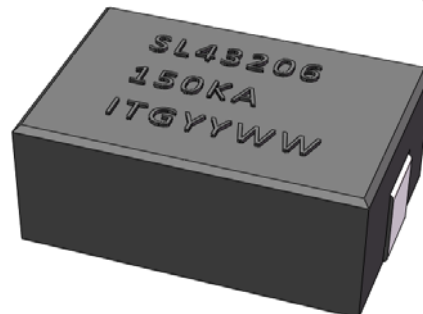


SL43206 Series



1. Features of SL43206 Series :

- Ferrite based SMD inductor with lower core loss.
- Inductance Range: 100.0 nH to 320.0 nH , custom values are welcomed.
- High current output chokes, up to 80.0 Amp with approx. 20% roll off.
- Low Profile 5.5 mm Max. height.
- 11.00 x 7.00 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: 950 pcs , 13" Reel.

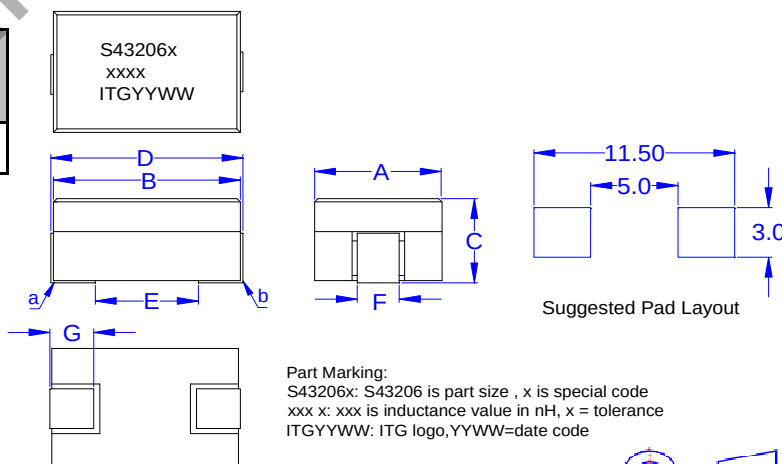


2. Electrical Characteristic of SL43206 Series:

ITG Part Number	OCL ¹ (nH) ± 10% or 15%	L @ Isat1 ² (nH) Typical	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
SL43206A-100K	100.00 , 10%	80.00	0.35	80.00	72.00	68.00	46.00
SL43206A-120K	120.00 , 10%	96.00	0.35	68.00	66.00	62.00	46.00
SL43206A-150K	150.00 , 10%	120.00	0.35	52.00	46.00	44.00	46.00
SL43206A-180K	180.00 , 10%	144.00	0.35	44.00	38.00	37.00	46.00
SL43206A-220K	220.00 , 10%	176.00	0.35	34.00	30.00	28.00	46.00
SL43206A-270L	270.00 , 15%	216.00	0.35	26.00	24.00	22.00	46.00
SL43206A-320L	320.00 , 15%	256.00	0.35	22.00	19.00	18.00	46.00

3. Mechanical Dimension(Unit:mm):

A (Max.)	B (Max.)	C (Max.)	D (Max.)	E (Ref.)	F ± 0.25	G ± 0.35
7.00	10.85	5.20	11.00	5.90	2.40	2.50



Notes:

- 1> Open Circuit Inductance (OCL) test condition: 100KHz,0.10Vrms,0A_{dc} 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.

Third Angle Projection:

