

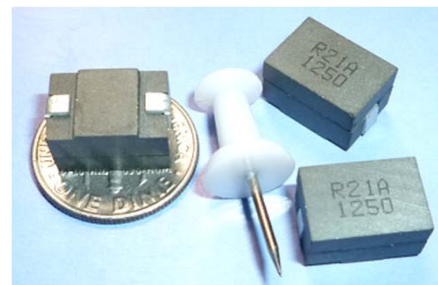


SL473285 Series



1. Features:

- Ferrite based SMD Inductor with lower core loss.
- Inductance Range:210nH to 260nH. Custom values are welcomed.
- High current output chokes, upto 74.0 Amp with approx. 20% roll off.
- Low Profile 8.0mm Max. height .
- Foot Print 12.1 x 8.25 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 .
- T & R Qtys: 500 pcs , 13" Reel ;

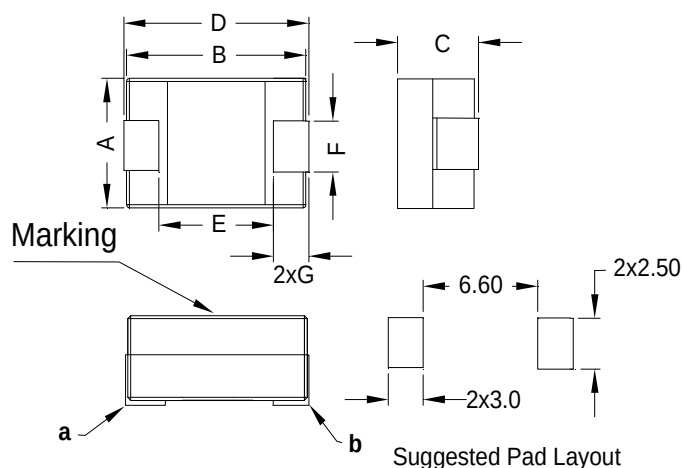


2. Electrical Characteristic of SL473285 Series:

Part Number	Inductance (uH) ± 10%	DCR (mΩ) ± 5.0%	Isat ¹ (A) @25°C	Isat ² (A) @45°C	Isat ³ (A) @85°C	Isat ⁴ (A) @105°C	Isat ⁵ (A) @125°C	Irms (A) @25°C
SL473285A-R21KHF	0.210 , 10%	0.290	74.00	72.00	68.00	65.00	59.00	50.00
SL473285A-R23KHF	0.230 , 10%	0.290	67.00	65.00	63.00	59.00	56.00	50.00
SL473285A-R26KHF	0.260 , 10%	0.290	58.00	56.00	52.00	50.00	46.00	50.00

3. Mechanical Dimension(Unit:mm):

A	B	C	D	E	F	G
Max.	Max.	Max.	Max.	Nom.	Nom.	Nom.
8.25	12.00	8.00	12.10	7.00	2.10	2.50



Note:

- 1>.Open Circuit Inductance (OCL) test condition:100KHz,0.1Vrms,0Adc ,at 25°C.
- 2>.Full Load Inductance (FLL) Test condition:100KHz,0.1Vrms ,Isat ;(Ta=25°C).
- 3>.Isat¹,Isat²,Isat³,Isat⁴ & Isat⁵ : DC current that will cause inductance to drops approximately by 20% ;
- 4>. 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.
- 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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5. Core Loss:



Where $\Delta B = 0.265 \cdot L(nH) \cdot \Delta I$