

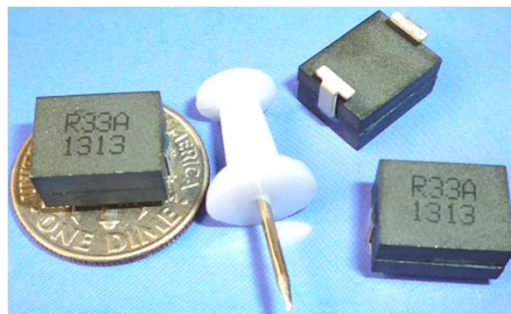


SLD45248 Series



1. Features:

- Ferrite based SMD Inductor with lower core loss.
- Custom values are welcomed.
- High current output chokes, upto 36.0 Amp with approx. 20% roll off.
- Low Profile 8.10mm Max. height .
- Foot Print 11.50 x 8.40 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 Qty: 450 pcs , 13" Reel ;

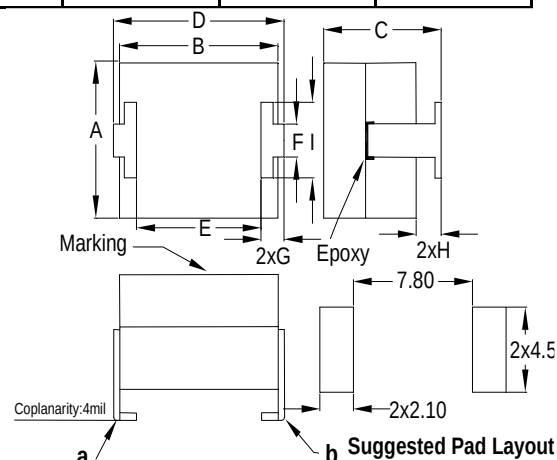


2. Electrical Characteristic of SLD45248 Series:

Part Number	Inductance (uH) ±15%	DCR (mΩ) ± 10.0%	L@Isat ¹ (uH) MIN.	Isat ¹ (A) @25°C	Isat ² (A) @75°C	Isat ³ (A) @100°C	Irms (A) @25°C
SLD45248A-R33LHF	0.330	0.460	0.231	36.00	32.00	29.00	38.00

3. Mechanical Dimension(Unit:mm):

A	B	C	D	E	F	G	H	I
±0.5	±0.2	±0.5	±0.2	Nom.	Nom.	Nom.	±0.5	±0.3
8.20	10.40	7.60	11.30	8.30	1.75	1.50	1.50	4.00



Note:

- 1>.Open Circuit Inductan
- 2>.Full Load Inductance (FLL) Test condition:100KHz,1.0Vrms ,Isat ;(Ta=25 °C).
- 3>.Isat¹,Isat² & Isat³ : 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):

