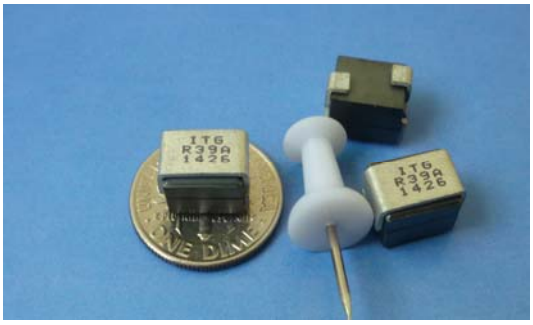
SLM43328 Series

1. Features:

- Ferrite based SMD Inductor with lower core loss.
- Inductance Range: 430.00 nH to 770.00 nH,Custom values are welcomed.
- High current output chokes, upto 40.00 Amp with approx. 20% roll off.
- Low Profile 8.00 mm Max. height.
- 11.00 x 8.00 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: 450 pcs , 13" Reel.

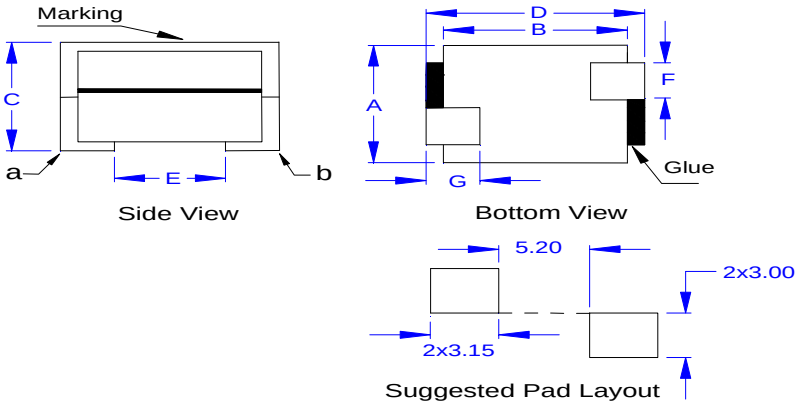


2. Electrical Characteristic of SLM43328 Series:

ITG Part Number	OCL [1] (nH) ± 20%	L @ Isat1 [2] (nH) Min.@25℃	DCR [3] (mΩ) ± 8.0%	Isat1 [4] (A) @25℃	Isat2 [4] (A) @75℃	Isat3 [4] (A) @100℃	Irms [5] (A) @25℃
SLM43328A-R43MHF	430.00	309.60	0.93	40.00	37.00	34.00	29.00
SLM43328A-R51MHF	510.00	367.20	0.93	33.00	30.00	28.00	29.00
SLM43328A-R60MHF	600.00	432.00	0.93	28.00	26.00	24.00	29.00
SLM43328A-R77MHF	770.00	554.40	0.93	21.00	19.50	18.00	29.00

3. Mechanical Dimension(Unit:mm):

A Max.	B Max.	C Max.	D Max.	E Nom.	F ± 0.20	G ± 0.30
8.00	8.70	8.00	11.00	5.80	2.50	2.50



Notes:

1> Open Circuit Inductance (OCL) test condition: 100KHz, 0.1Vrms, 0Adc at 25℃.

2> L @ Isat and L @ Irms test condition: 100KHz, 0.1Vrms (Ta=25℃).

3> The nominal DCR is measured from point" a " to point" b ", as shown above on the mechanical drawing (Ta=25℃).

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℃ 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.

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Inductance vs. Current

4. Inductance Characteristics (Inductance vs. Current):