

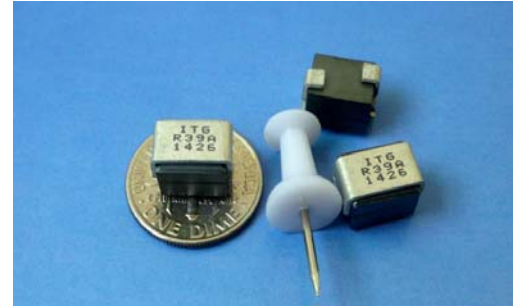


SLM40328 Series



1. Features:

- Ferrite based SMD inductor with lower core loss.
- Inductance range: 400.00 nH to 710.00 nH, custom values are welcomed.
- High current output chokes, up to 40.00 Amp with approx. 20% roll off.
- Low profile 8.00 mm Max. height.
- 10.00 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 Qty: 450 pcs, 13" Reel.

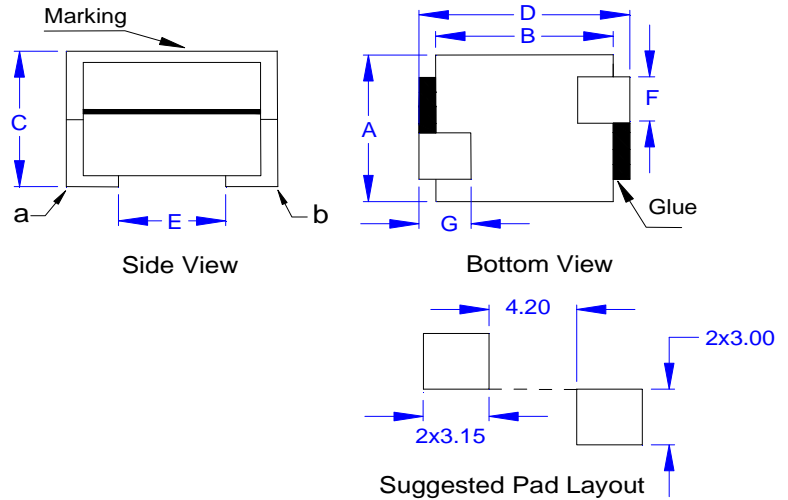


2. Electrical Characteristic of SLM40328 Series:

ITG Part Number	OCL ¹ (nH) ± 20%	L @ Isat1 ² (nH) Min. @25°C	DCR ³ (mΩ) ± 8.0%	Isat1 ⁴ (A) @25°C	Isat2 ⁴ (A) @75°C	Isat3 ⁴ (A) @100°C	Irms ⁵ (A) @25°C
SLM40328A-R39MHF	400.00	288.00	0.85	40.00	37.00	34.00	31.00
SLM40328A-R47MHF	470.00	338.40	0.85	33.00	30.00	28.00	31.00
SLM40328A-R56MHF	550.00	396.00	0.85	27.00	25.00	23.50	31.00
SLM40328A-R72MHF	710.000	511.20	0.85	21.00	19.50	18.00	31.00

3. Mechanical Dimension (Unit:mm):

A	B	C	D	E	F	G
Max.	Max.	Max.	Max.	Nom.	± 0.20	± 0.30
8.00	8.70	8.00	10.00	4.75	2.50	2.50



Notes:

- 1> Open Circuit Inductance (OCL) test condition: 100KHz, 0.1Vrms, 0Adc at 25°C.
- 2> L @ Isat and L @ Irms test condition: 100KHz, 0.1Vrms (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.



SLM40328 Series

Inductance vs. Current



4. Inductance Characteristics (Inductance vs. Current):

