

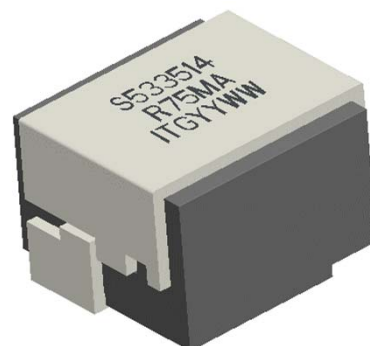


SLM533514 Series



1. Features of SLM533514 Series :

- Ferrite based SMD inductor with lower core loss.
- Inductance 750nH. Custom values are welcomed.
- High current output chokes, up to 62.0 Amp with approx. 20% roll off.
- Low Profile 9.00mm Max. height .
- Foot Print 14.50 x 13.50 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 compliant.
- T & R Qtys: 300 pcs , 13" Reel.

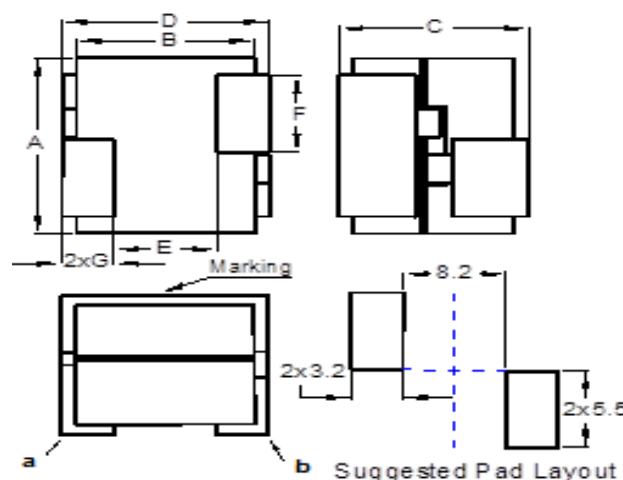


2. Electrical Characteristics of SLM533514 Series:

Part Number	Inductance (nH) ±20%	DCR (mΩ) ± 8.0%	Isat ¹ (A) @25°C	L@Isat ¹ (uH) Typ.@25°C	Isat ² (A) @75°C	Isat ³ (A) @100°C	Irms (A) @25°C
SLM533514A-R75MHF	750.00	0.400	37.00	600.000	33.00	30.00	45.00

3. Mechanical Dimension(Unit : mm):

A	B	C	D	E	F	G
Max.	Max.	Max.	Max.	Nom.	Nom.	Nom.
13.50	12.80	9.00	14.50	8.70	5.00	2.70



Notes:

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: 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.

● New York 1 914 347 2474 ● Taipei 886 2 2698 8669 ● Kaohsiung 886 7 350 2275
 ● Tokyo 81 568 85 2830 ● Shenzhen 86 755 8418 6263 ● Shanghai 86 21 5424 5141 ● Hong Kong 852 9688 9767
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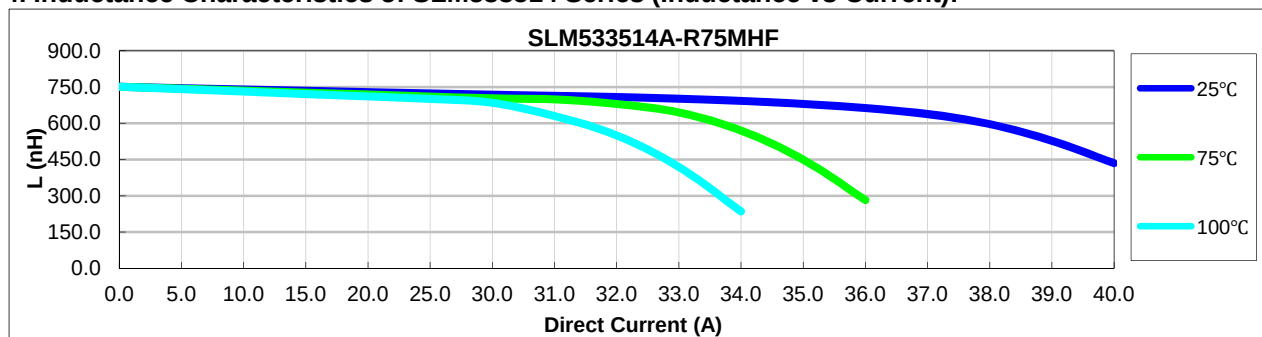
**Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.*



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4. Inductance Characteristics of SLM533514 Series (Inductance vs Current):



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