

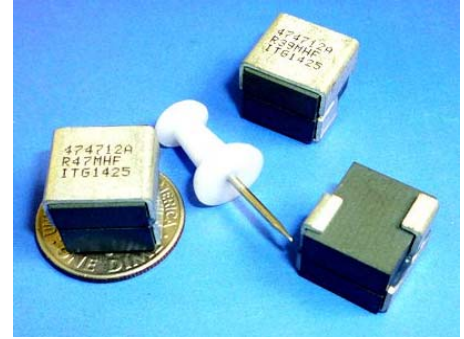


SLM474712 Series



1. Features:

- Ferrite based SMD Inductor with lower core loss.
- Inductance Range:390.0nH to 1200.0nH. Custom values are welcomed.
- High current output chokes, upto 81.0 Amp with approx. 20% roll off.
- Low Profile 11.80mm Max. height .
- Foot Print 12.0 x 11.90 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: 250 pcs , 13" Reel ;

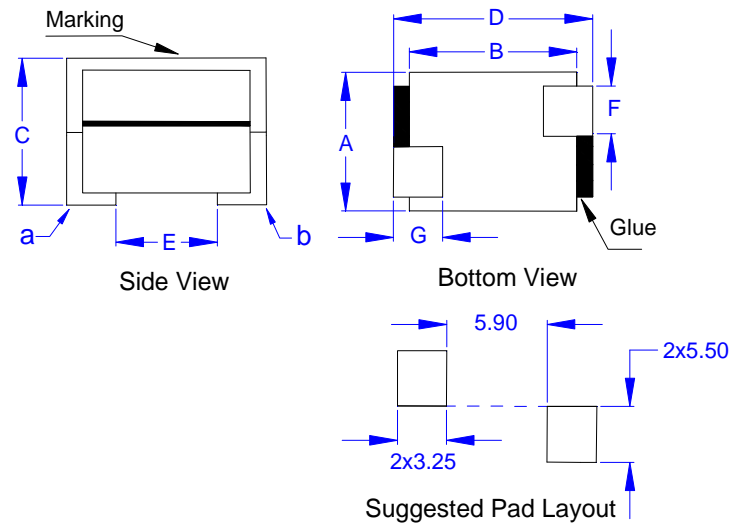


2. Electrical Characteristic of SLM474712 Series:

Part Number	OCL ¹ (nH) ± 20%	L @ Isat1 ² (nH) Min.	DCR ³ (mΩ) ± 7.0%	Isat1 ⁴ (A) @25°C	Isat2 ⁴ (A) @75°C	Isat3 ⁴ (A) @100°C	Irms ⁵ (A) @25°C
SLM474712A-R39MHF	390.00	280.80	0.69	81.00	74.00	70.00	43.00
SLM474712A-R47MHF	470.00	338.40	0.69	67.00	62.00	58.00	43.00
SLM474712A-R56MHF	560.00	403.20	0.69	54.00	48.00	45.00	43.00
SLM474712A-R68MHF	680.00	489.60	0.69	45.00	42.00	39.00	43.00
SLM474712A-R82MHF	820.00	590.40	0.69	37.00	35.00	32.00	43.00
SLM474712A-1R0MHF	1000.00	720.00	0.69	30.00	26.50	24.50	43.00
SLM474712A-1R2MHF	1200.00	864.00	0.69	23.00	21.00	20.00	43.00

3. Mechanical Dimension(Unit:mm):

A (Max.)	B (Max.)	C (Max.)	D (Max.)	E (Nom.)	F ± 0.20	G ± 0.30
11.90	10.30	11.80	12.00	6.75	5.00	2.50



Note:

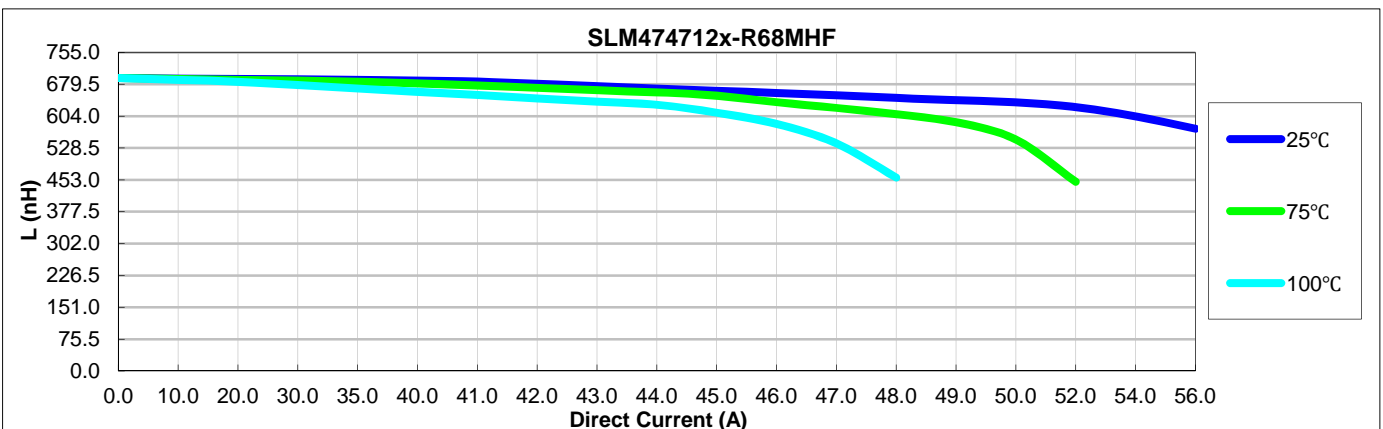
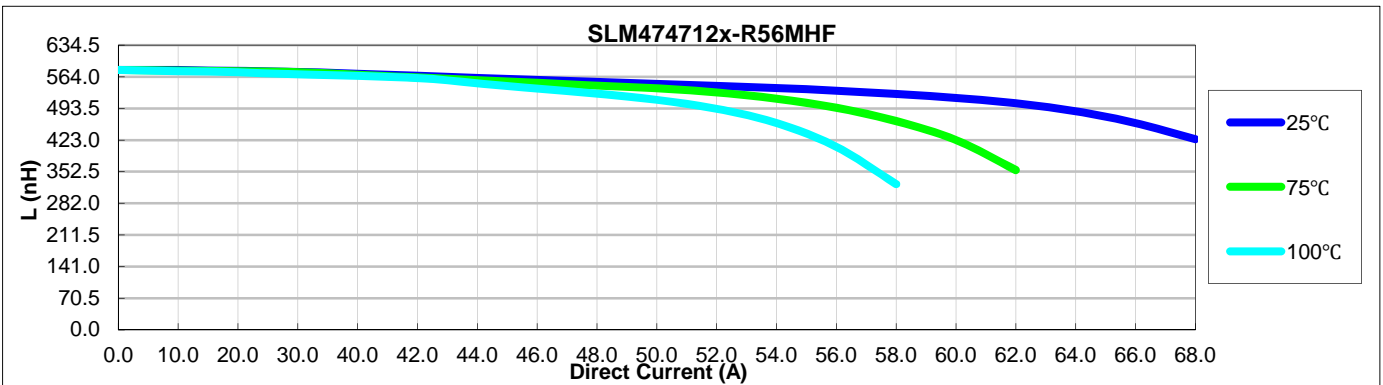
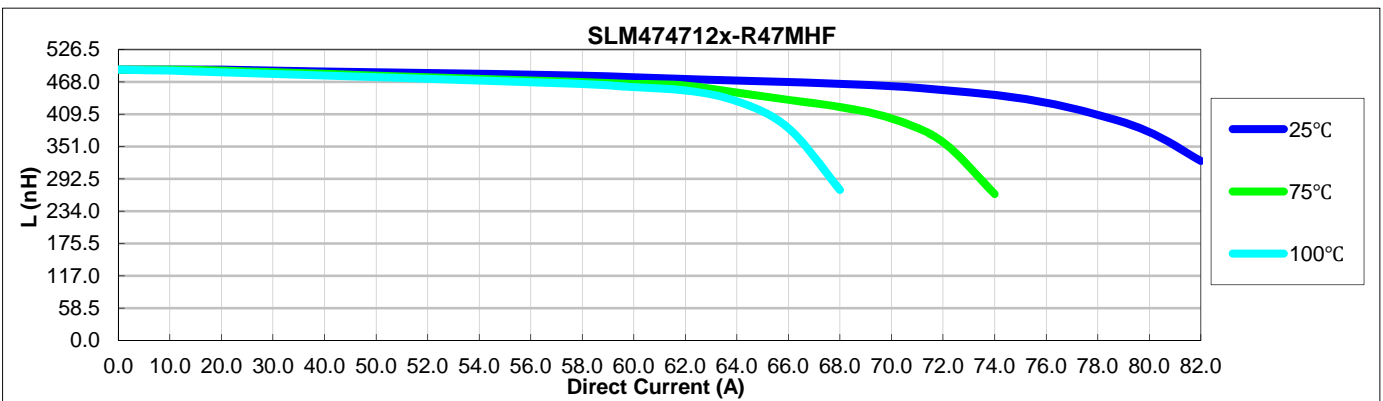
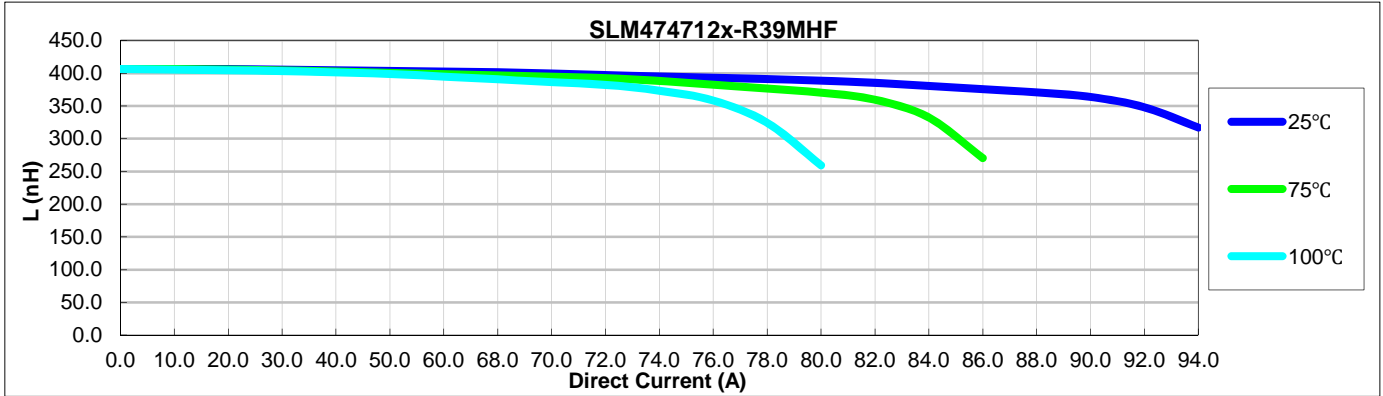
- 1>.Open Circuit Inductance (OCL) test condition:100KHz,0.1Vrms,0Adc ,at 25°C.
- 2>.L @ Isat and L @ Irms Test condition:100KHz,0.1Vrms ; (Ta=25°C).
- 3>.The nominal DCR is measured from point "a" to point"b",as shown above on the mechanical drawing.
- 4>.Isat1,Isat2 & Isat3 : DC current that will cause inductance to drops 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 verified in the end application.



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4. Inductance Characteristics (Inductance vs. Current):





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Inductance vs. Current

