

1. Features of SLA42487A Series :

- Ferrite based SMD inductor with lower core loss.
- Inductance Range: 70.0nH to 220.0nH, Custom values are welcomed.
- High current output chokes, up to 230.0 Amp with approx. 20% roll off.
- Low Profile 12.15 mm Max. height .
- Foot Print 10.70 x 7.50 mm .
- Perfect for high density designs with limited board space.
- Operating frequency up to 5.0 MHz application.
- Operating Temperature Range -55° C to + 130° C , RoHs & HF compliance .
- T & R Qtys: 300 pcs , 13" Reel ;

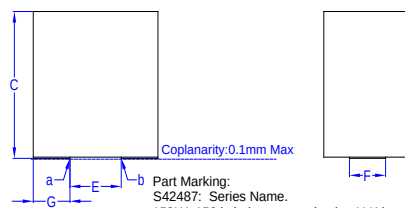
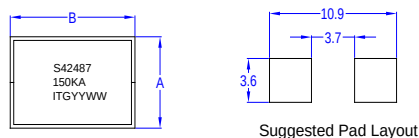


2. Electrical Characteristic of SLA42487A Series:

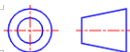
ITG Part Number	OCL ¹ (nH) ± 10% o	L @ Isat1 ² (nH) Min.	DCR ³ (mΩ) ± 10%	Isat1 ⁴ (A) @25°C	Isat2 ⁴ (A) @75°C	Isat3 ⁴ (A) @100°C	Isat3 ⁴ (A) @125°C	Irms ⁵ (A) @25°C
SLA42487A-70K	70.00	50.40	0.15	230.00	218.00	193.00	185.00	75.00
SLA42487A-85K	85.00	61.20	0.15	190.00	180.00	160.00	150.00	75.00
SLA42487A-95K	95.00	68.40	0.15	160.00	150.00	135.00	130.00	75.00
SLA42487A-110K	110.00	79.20	0.15	155.00	140.00	130.00	125.00	75.00
SLA42487A-130K	130.00	93.60	0.15	130.00	117.00	108.00	100.00	75.00
SLA42487A-150K	150.00	108.00	0.15	106.00	100.00	90.00	85.00	75.00
SLA42487A-180K	180.00	129.60	0.15	90.00	80.00	78.00	76.00	75.00
SLA42487A-200K	200.00	144.00	0.15	82.00	77.00	66.00	64.00	75.00
SLA42487A-220K	220.00	158.40	0.15	75.00	70.00	64.00	62.00	75.00

3. Mechanical Dimension(Unit : mm):

A	B	C	E	F	G
Max.	Max.	Max.	± 0.30	± 0.2	± 0.3
7.50	10.70	12.15	4.40	3.10	2.80



Third Angle Projection:



Part Marking:

S42487: Series Name.
150KA:150 is inductance value in nH,K is tolerance, A is special code.
ITGYYWW: ITG is Company Name , YYWW is Date Code..

Notes:

1. Open Circuit Inductance (OCL) test condition:100KHz,1.0Vrms,0Adc , at 25 °C.
2. L @ Isat and L @ Irms Test condition:100KHz,1.0Vrms (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 verified in the end application.

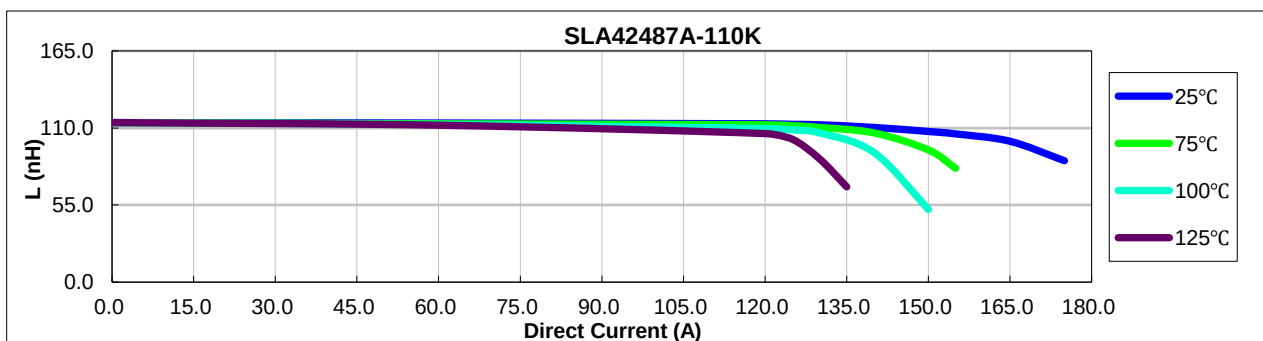
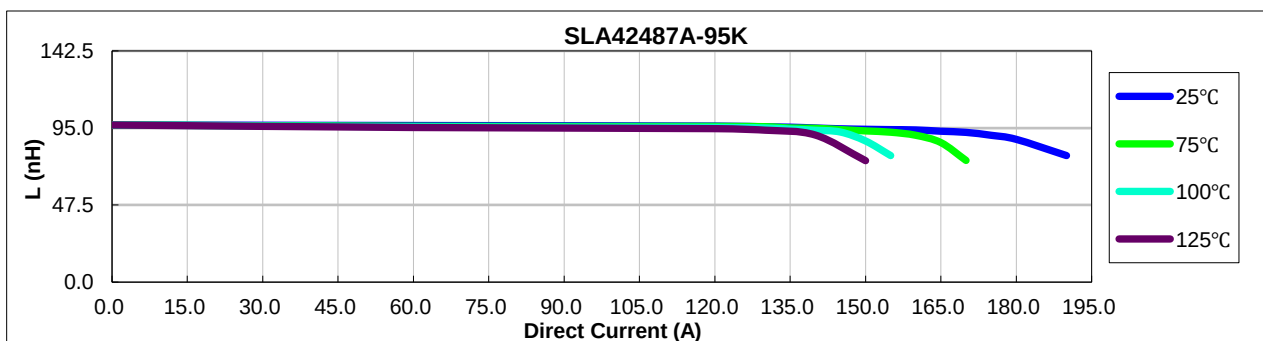
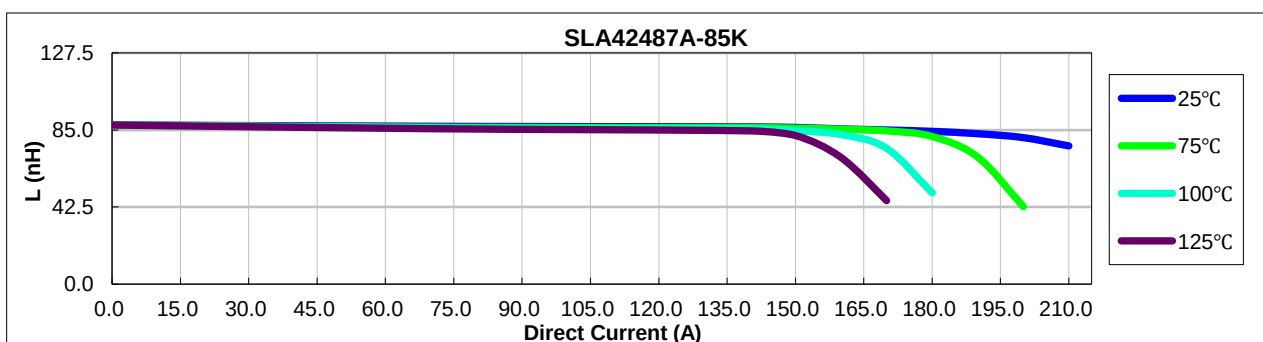
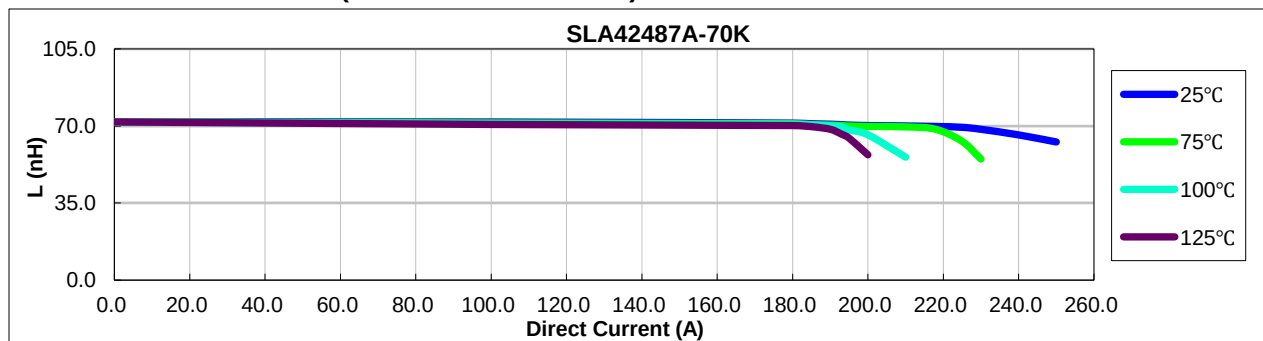
● New York 1 914 347 2474 ● Taipei 886 2 2698 8669 ● Kaohsiung 886 7 350 2275

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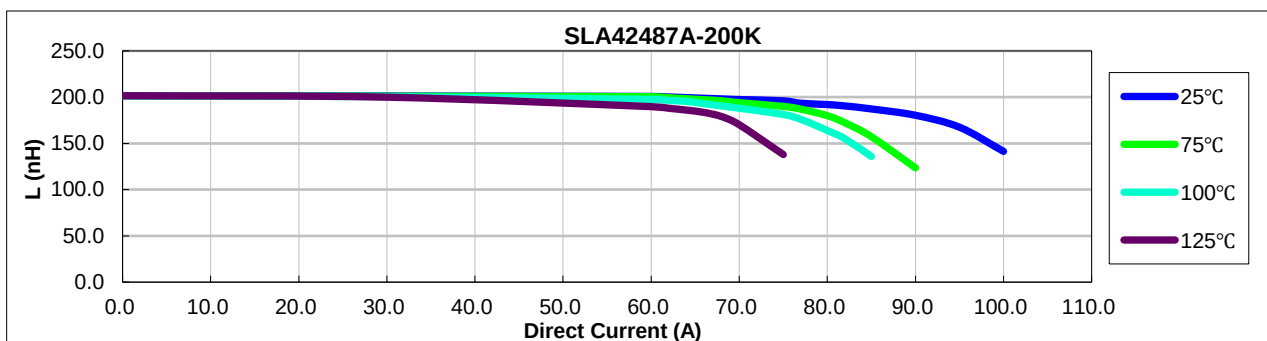
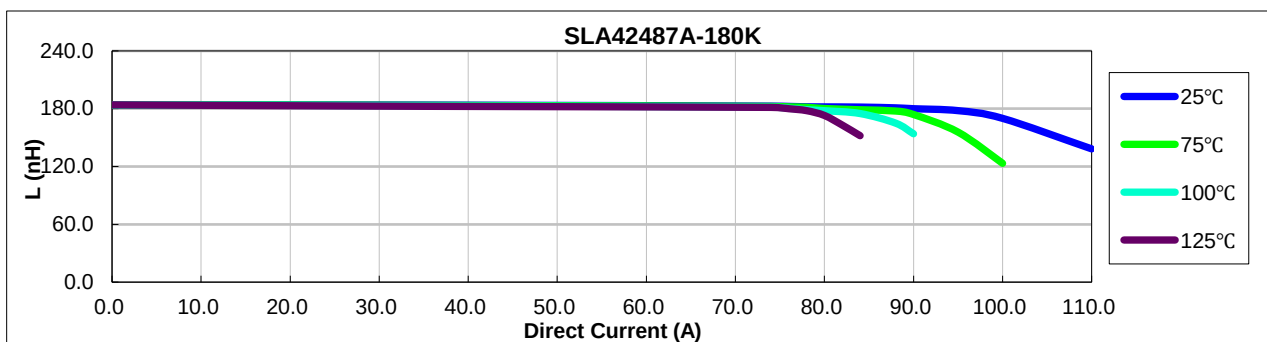
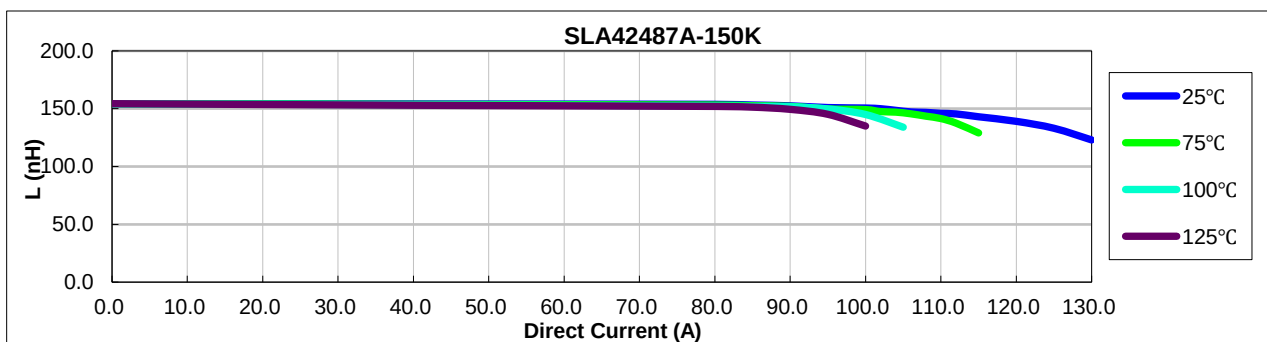
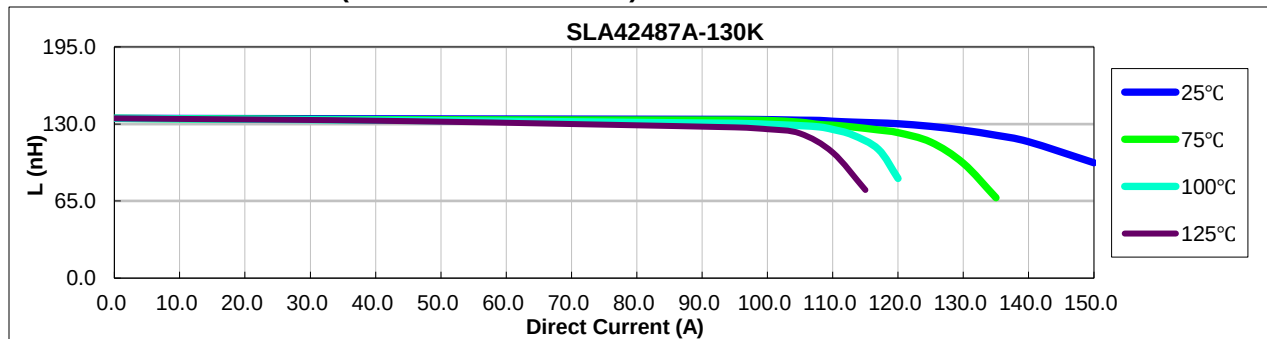
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*Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.

4. Inductance Characteristics (Inductance vs Current):



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