

AFA3732 Series



1. Features of AFA3732 Series :

- Ferrite based SMD inductor with lower core loss.
- Inductance Range: 40.0nH to 300.0nH, Custom values are welcomed.
- High current output chokes, up to 210.0 Amp with approx. 20% roll off.
- Low Profile 8.00 mm Max. height .
- Foot Print 9.60 x 6.40 mm Max .
- 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 Qty: 600 pcs , 13" Reel ;

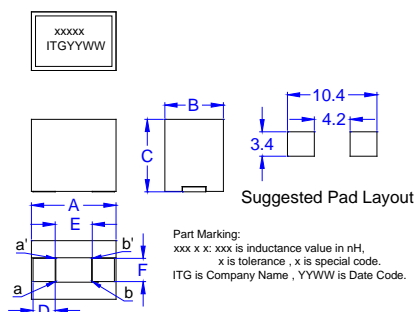


2. Electrical Characteristic of AFA3732 Series:

ITG Part Number	OCL ¹ (nH) ± 15%	L @ Isat ² (nH) Min.	DCR ³ (mΩ) ± 5%	Isat1 ⁴ (A) @25°C	Isat2 ⁴ (A) @75°C	Isat3 ⁴ (A) @100°C	Irms ⁵ (A) @25°C
AFA3732A-40L	40.00	28.80	0.145	210.00	190.00	180.00	75.00
AFA3732A-50L	50.00	36.00	0.145	185.00	175.00	160.00	75.00
AFA3732A-60L	60.00	43.20	0.145	155.00	150.00	140.00	75.00
AFA3732A-70L	70.00	50.40	0.145	124.00	120.00	115.00	75.00
AFA3732A-80L	80.00	57.60	0.145	118.00	110.00	102.00	75.00
AFA3732A-100L	100.00	72.00	0.145	95.00	88.00	82.00	75.00
AFA3732A-120L	120.00	86.40	0.145	78.00	71.00	67.00	75.00
AFA3732A-150L	150.00	108.00	0.145	60.00	54.00	52.00	75.00
AFA3732A-180L	180.00	129.60	0.145	50.00	48.00	46.00	75.00
AFA3732A-220L	220.00	158.40	0.145	38.00	36.00	34.00	75.00
AFA3732A-270L	270.00	194.40	0.145	30.00	28.00	26.00	75.00
AFA3732A-300L	300.00	216.00	0.145	26.00	24.00	22.00	75.00

3. Mechanical Dimension(Unit : mm):

A	B	C	D	E	F
Max.	Max.	Max.	± 0.35	Nom.	± 0.20
9.60	6.40	8.00	2.35	4.70	2.80



Notes:

1. Open Circuit Inductance (OCL) test condition:500KHz,0.25Vrms,0A_{dc} ,at 25 °C.
2. L @ Isat and L @ Irms Test condition:500KHz,0.25Vrms (Ta=25 °C).
3. The nominal DCR is measured from point "a" and "a" to point "b" and "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.



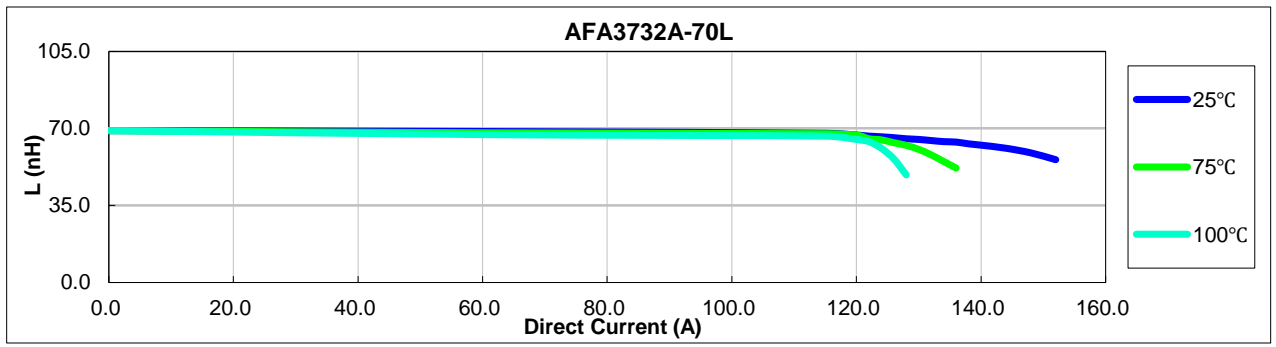
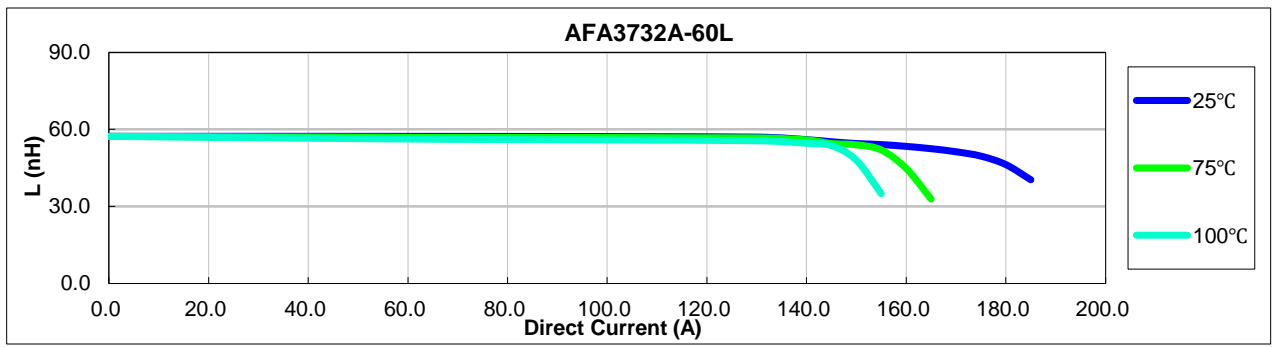
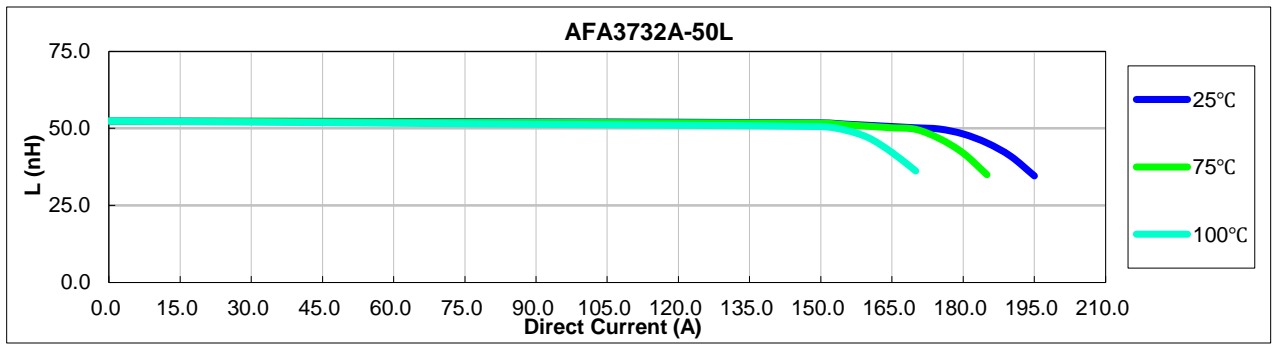
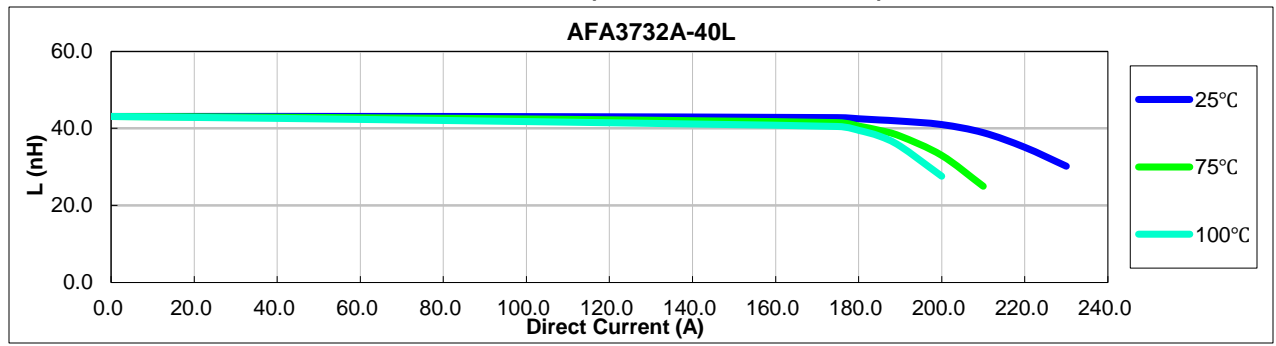


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Halogen Free

4. Inductance Characteristics of AFA3732 Series (Inductance vs Current):

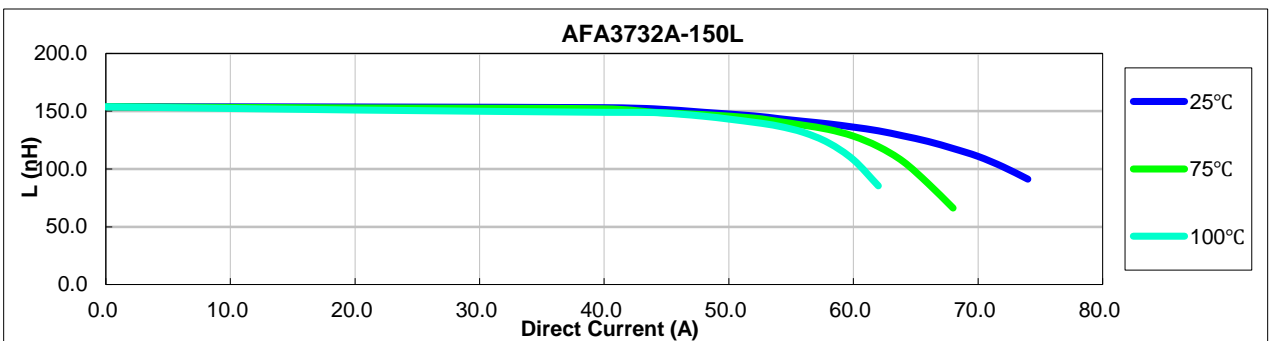
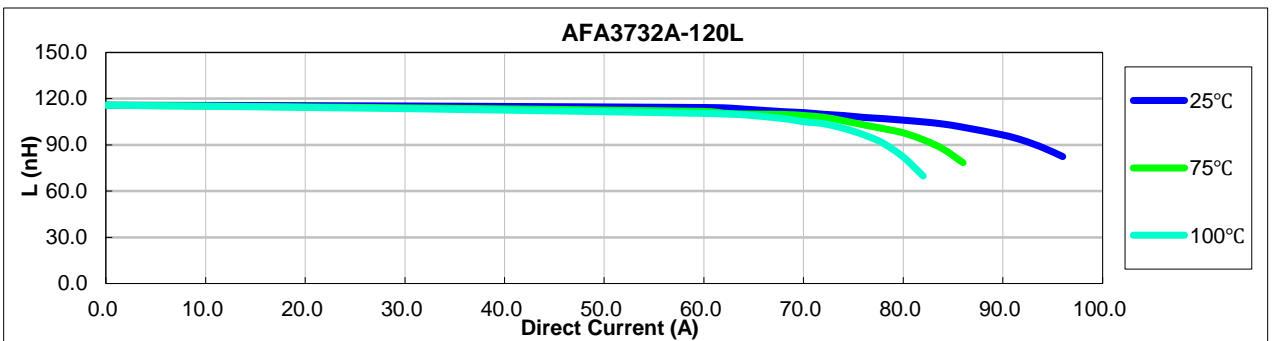
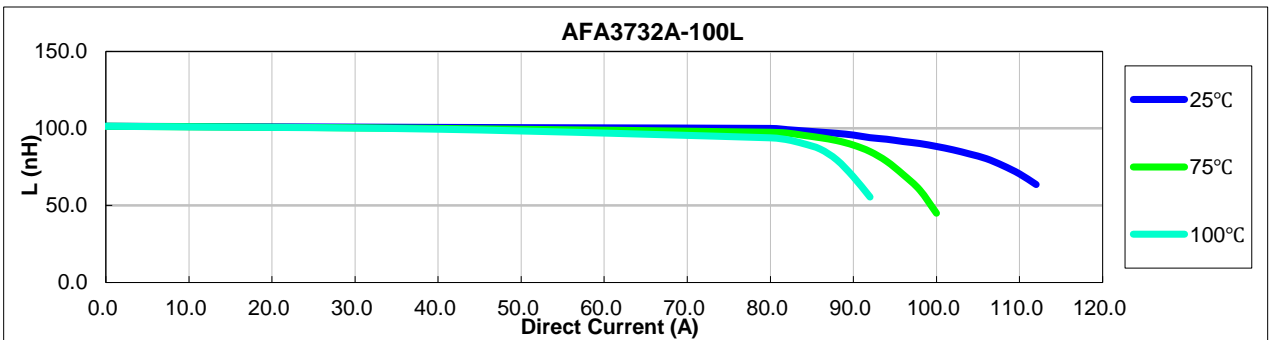
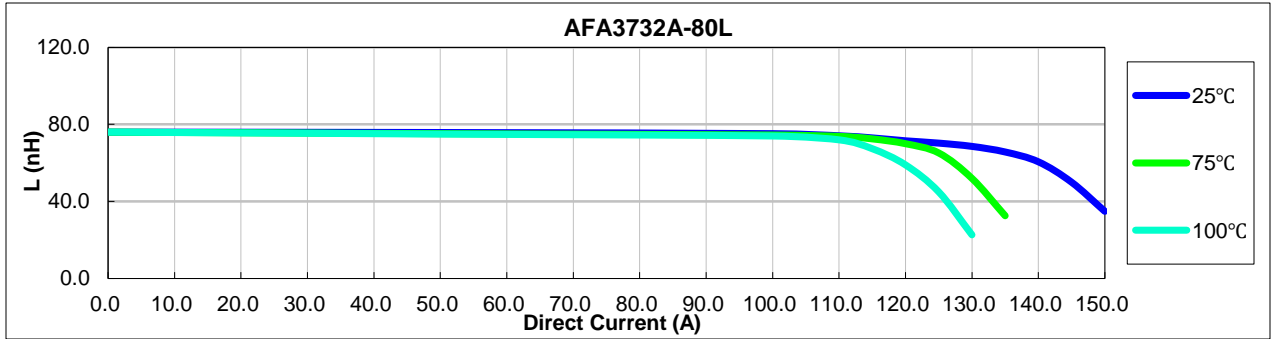


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*Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.



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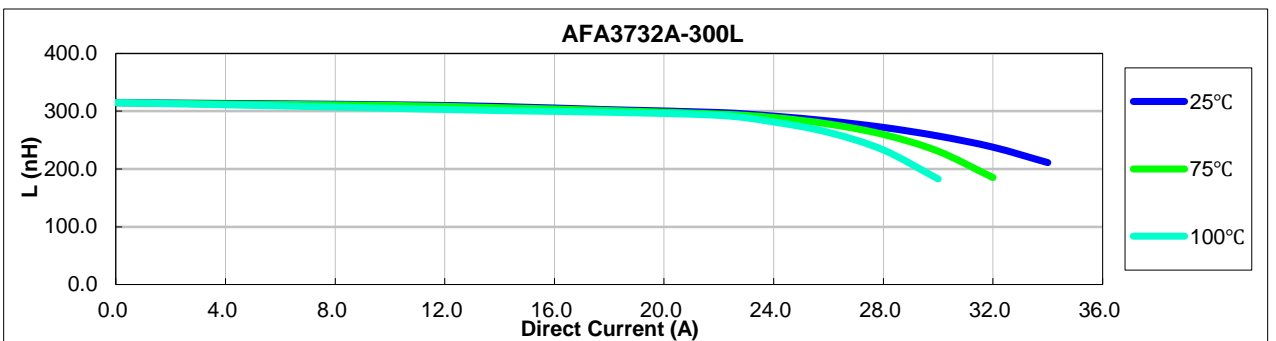
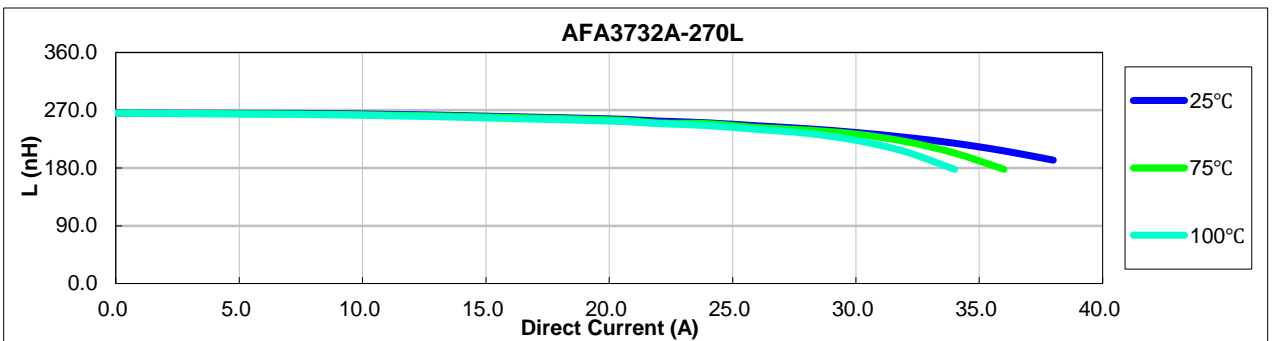
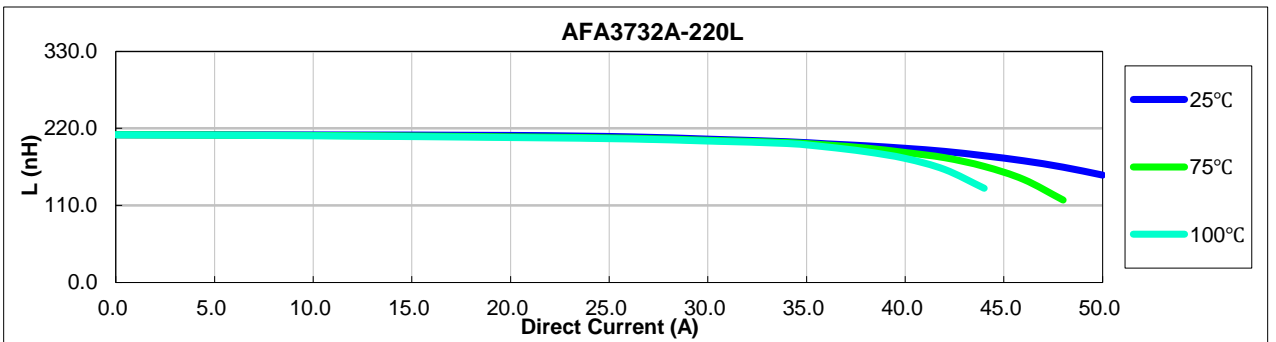
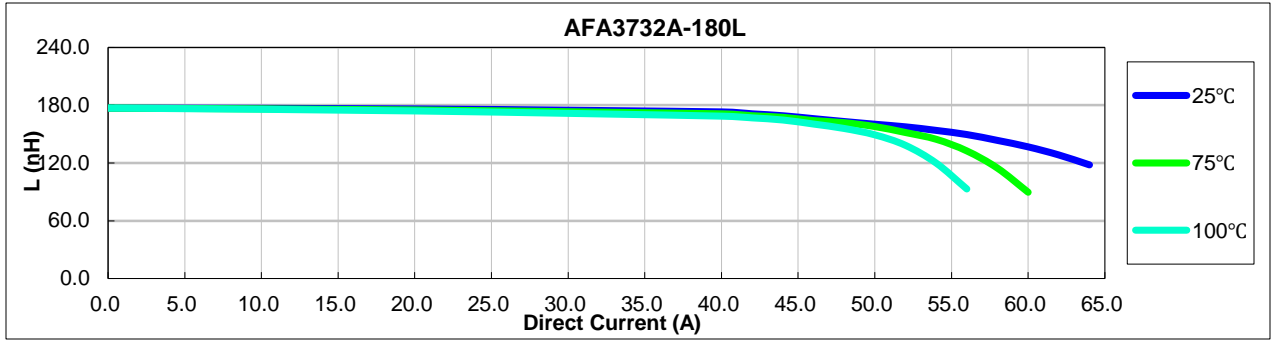


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