

1. Features of SL5920 Series :

- Ferrite based SMD inductor with lower core loss.
- Inductance Range: 55.0 nH to 400.0 nH , custom values are welcomed.
- High current output chokes, up to 190.0 Amp with approx. 20% roll off.
- Low Profile 5.00 mm Max. height .
- Foot Print 15.00 x 7.00 mm .
- Ideal for Buck Converter, VRM & High Density Board Design.
- Operating frequency up to 5.0 MHz application.
- Operating Temperature Range -55 °C to + 130 °C , RoHs & HF compliance .
- T & R Qtys: 1000 pcs , 13" Reel ;

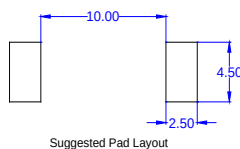
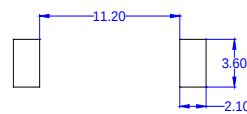
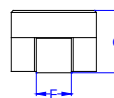
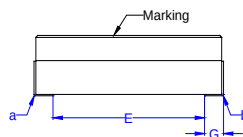
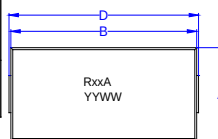


2. Electrical Characteristic of SL5920 Series:

Part Number	Inductance (nH) ± 10% or 15%	DCR (mΩ) ± 7.0%	Isat ¹ (A) @25°C	Isat ² (A) @75°C	Isat ³ (A) @100°C	Irms (A) @25°C
SL5920A-R055KHF	55 , 10%	0.47	190.00	182.00	175.00	53.00
SL5920A-R07KHF	70 , 10%	0.47	152.00	143.00	137.00	53.00
SL5920A-R085KHF	85 , 10%	0.47	125.00	117.00	112.00	53.00
SL5920A-R10KHF	100 , 10%	0.47	106.00	100.00	96.00	53.00
SL5920A-R12KHF	120 , 10%	0.47	89.00	84.00	80.00	53.00
SL5920A-R15KHF	150 , 10%	0.47	72.00	66.00	62.00	53.00
SL5920A-R18KHF	180 , 10%	0.47	64.00	56.00	52.00	53.00
SL5920A-R23KHF	230 , 10%	0.47	44.00	40.00	37.00	53.00
SL5920A-R30LHF	300 , 15%	0.47	35.00	32.00	28.00	53.00
SL5920A-R40LHF	400 , 15%	0.47	24.00	22.00	21.00	53.00

3. Mechanical Dimension(Unit : mm):

A	B	C	D	E	F	G
Max.	Max.	Max.	Max.	Nom.	± 0.20	± 0.20
7.00	14.85	5.00	15.00	11.80	2.80	1.52



Part Marking:
RxxA: Rxx is inductance value in uH(R:decimal point),
A is special code.
YYWW: YYWW is date code.

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.



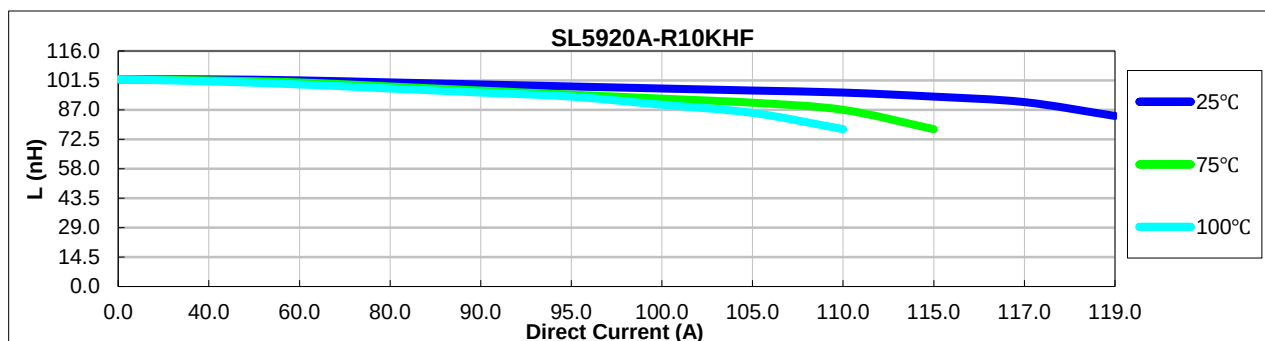
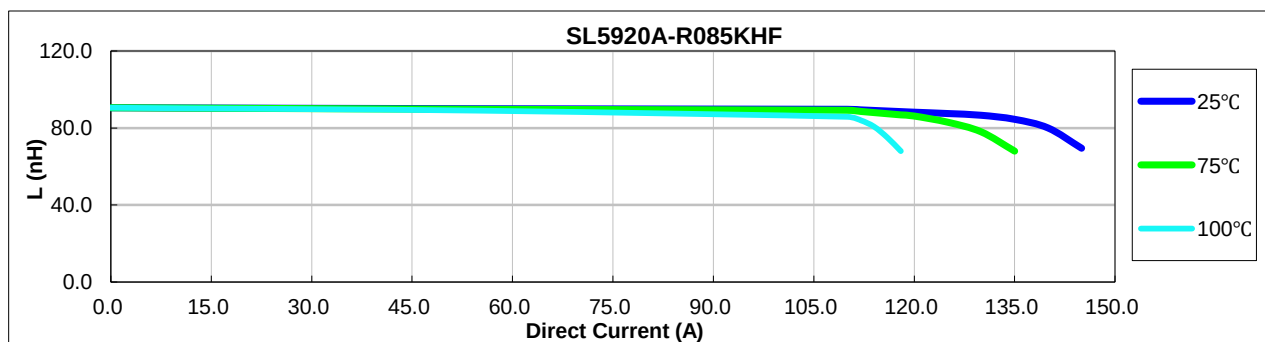
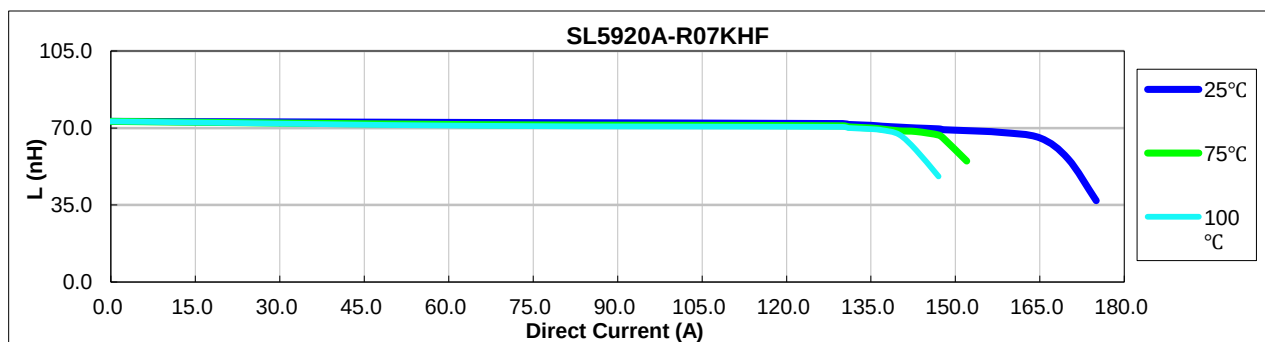
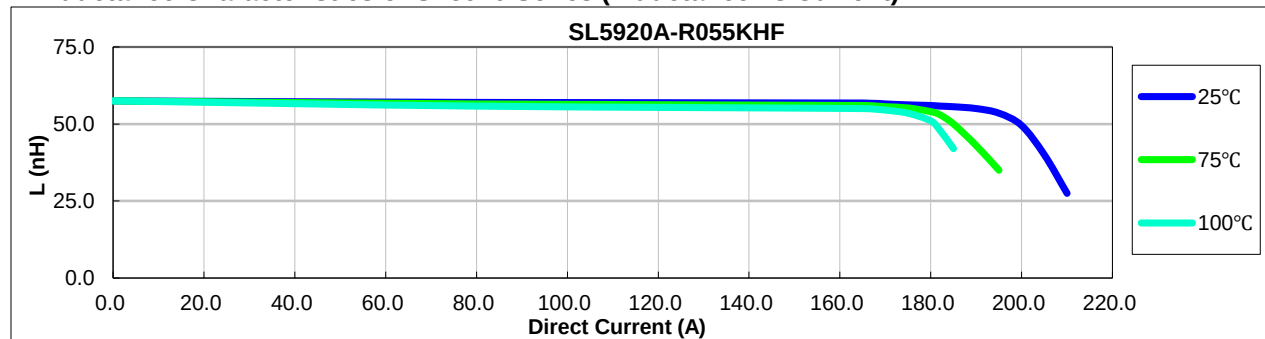
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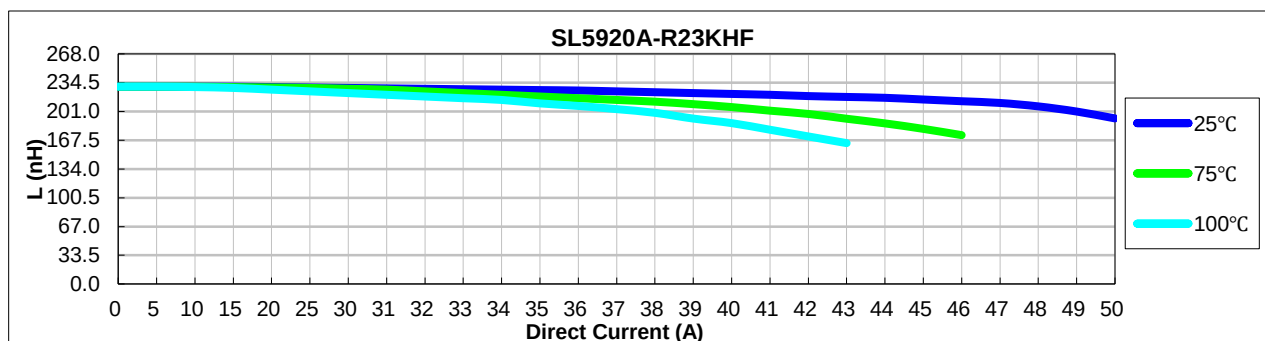
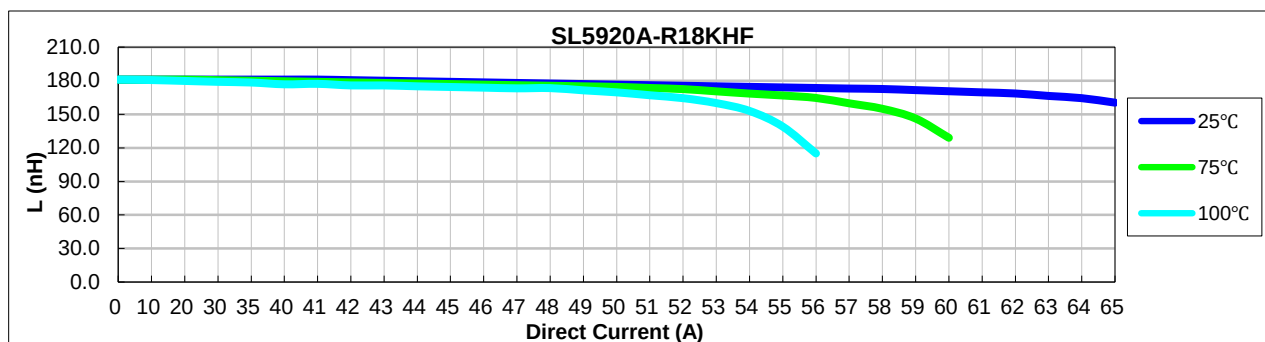
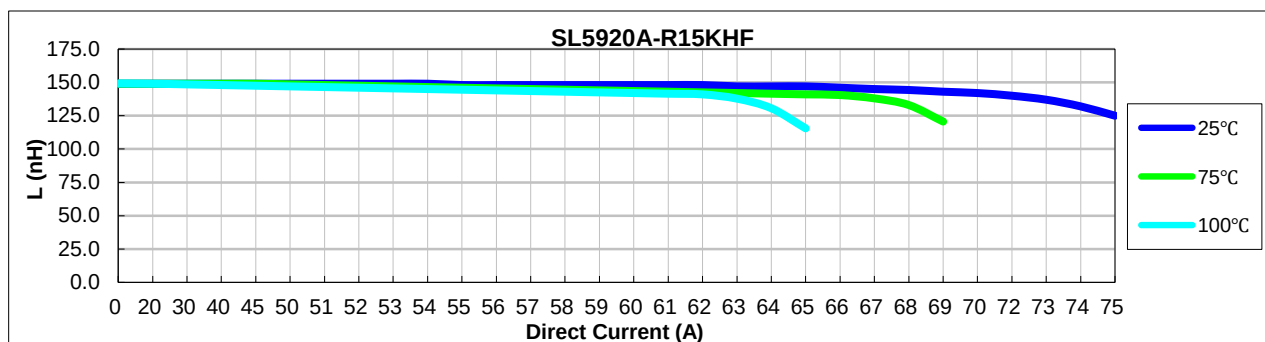
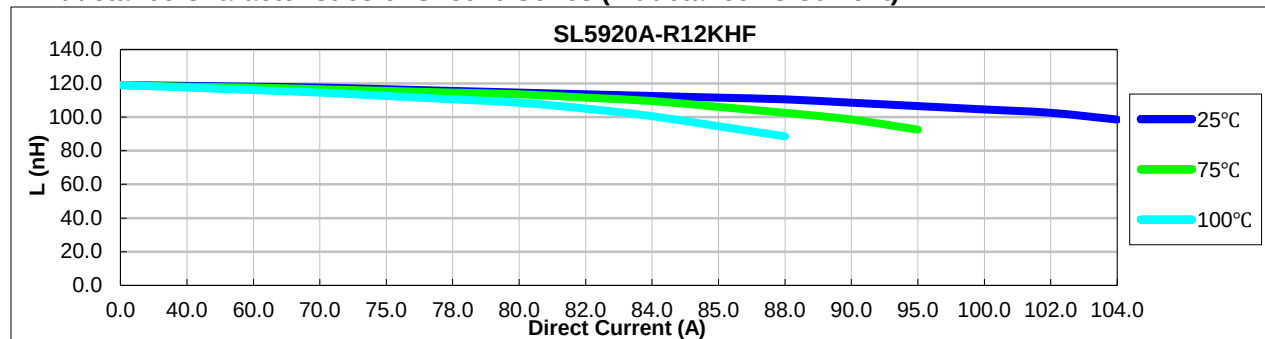
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*Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.

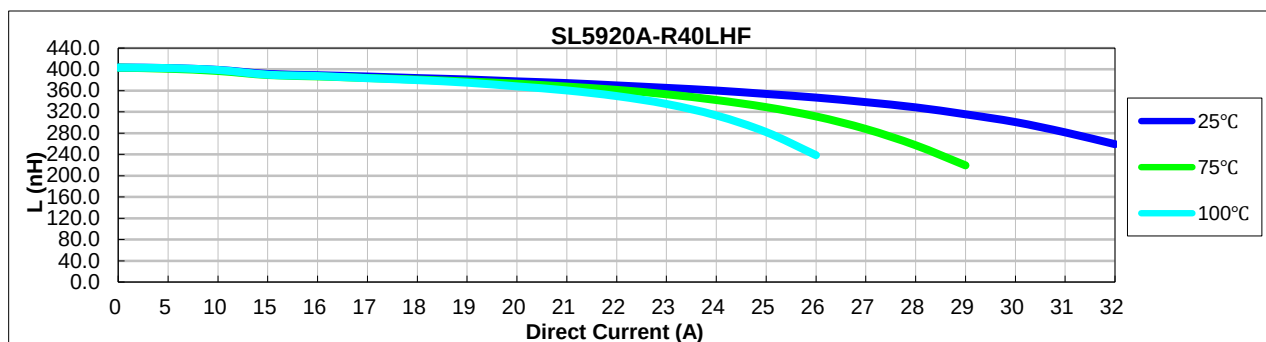
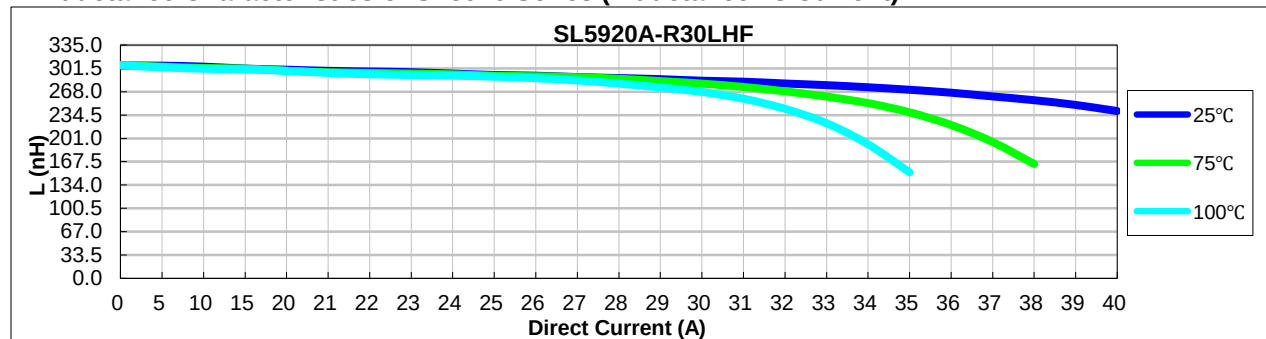
4. Inductance Characteristics of SL5920 Series (Inductance vs Current):



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5. Core Loss:

