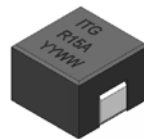


1. Features of SL2820 Series:

- Ferrite based SMD inductor with lower core loss.
- Inductance range: 50.0 nH to 250.0 nH , custom values are welcomed.
- High current output chokes, up to 90.0 Amp with approx. 20% roll off.
- Low Profile 4.95 mm Max. height .
- 7.00 x 7.00 mm Foot Print.
- Ideal for Buck Converter, VRM & High Density Board Design.
- Operating frequency of up to 5.0MHz.
- Operating temperature range of -55° C to + 130° C. RoHS & HF compliant.
- T & R Qty's: 1000pcs, 13" Reel.

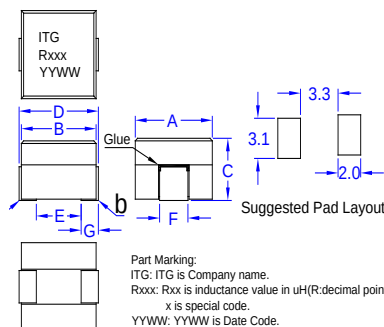


2. Electrical Characteristics of SL2820 Series:

ITG Part Number	OCL ¹ (nH) ± 15% or 20%	DCR ³ (mΩ) ± 9%	Isat1 ⁴ (A) @25°C	Isat2 ⁴ (A) @45°C	Isat3 ⁴ (A) @100°C	Isat4 ⁴ (A) @125°C	Irms ⁵ (A) @25°C
SL2820A-R05LHF	50.00 , 15%	0.25	90.00	86.00	77.00	75.00	43.00
SL2820B-R05LHF	50.00 , 15%	0.30	90.00	86.00	77.00	75.00	39.00
SL2820C-R05LHF	50.00 , 15%	0.32	90.00	86.00	77.00	75.00	38.00
SL2820A-R07LHF	70.00 , 15%	0.25	66.00	65.00	55.00	54.00	43.00
SL2820B-R07LHF	70.00 , 15%	0.30	66.00	65.00	55.00	54.00	39.00
SL2820C-R07LHF	70.00 , 15%	0.32	66.00	65.00	55.00	54.00	38.00
SL2820A-R10LHF	105.00 , 15%	0.25	44.00	41.00	37.00	36.00	43.00
SL2820B-R10LHF	105.00 , 15%	0.30	44.00	41.00	37.00	36.00	39.00
SL2820C-R10LHF	105.00 , 15%	0.32	44.00	41.00	37.00	36.00	38.00
SL2820A-R12LHF	120.00 , 15%	0.25	43.00	40.00	36.00	35.00	43.00
SL2820B-R12LHF	120.00 , 15%	0.30	43.00	40.00	36.00	35.00	39.00
SL2820C-R12LHF	120.00 , 15%	0.32	43.00	40.00	36.00	35.00	38.00
SL2820A-R15MHF	150.00 , 20%	0.25	37.00	35.00	29.00	27.00	43.00
SL2820B-R15MHF	150.00 , 20%	0.30	37.00	35.00	29.00	27.00	39.00
SL2820C-R15MHF	150.00 , 20%	0.32	37.00	35.00	29.00	27.00	38.00
SL2820A-R18MHF	180.00 , 20%	0.25	27.00	26.00	22.00	21.00	43.00
SL2820B-R18MHF	180.00 , 20%	0.30	27.00	26.00	22.00	21.00	39.00
SL2820C-R18MHF	180.00 , 20%	0.32	27.00	26.00	22.00	21.00	38.00
SL2820A-R25MHF	250.00 , 20%	0.25	19.00	18.00	16.00	15.00	43.00

3. Mechanical Dimension of SL2820 Series:

A	B	C	D	E	F	G
Max.	Max.	Max.	Max.	Nom.	Nom.	Nom.
7.00	6.80	4.95	7.00	3.50	2.50	1.52

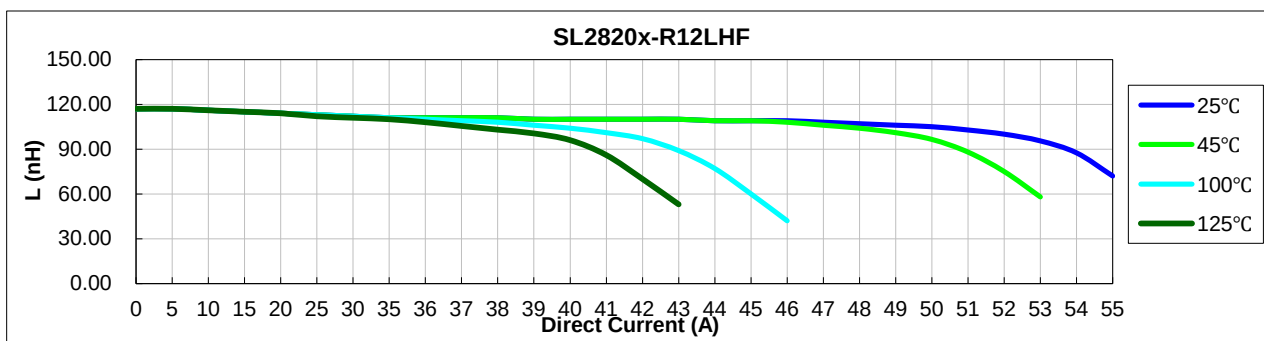
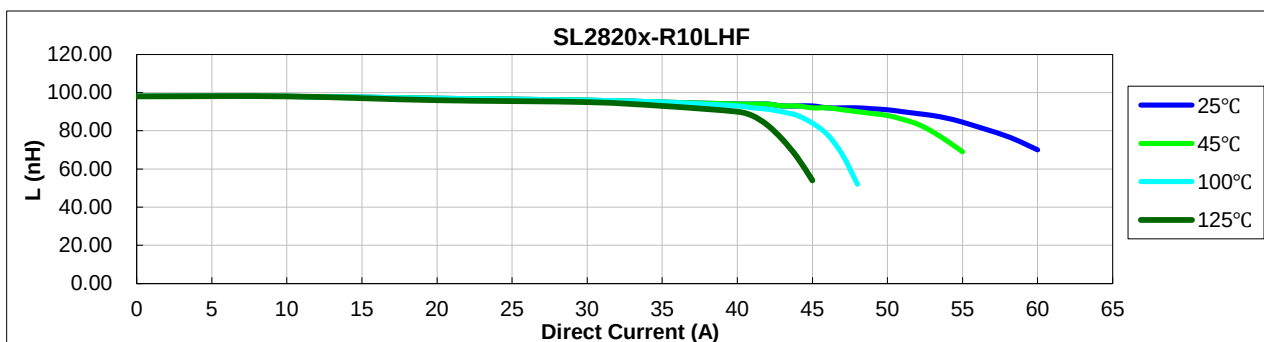
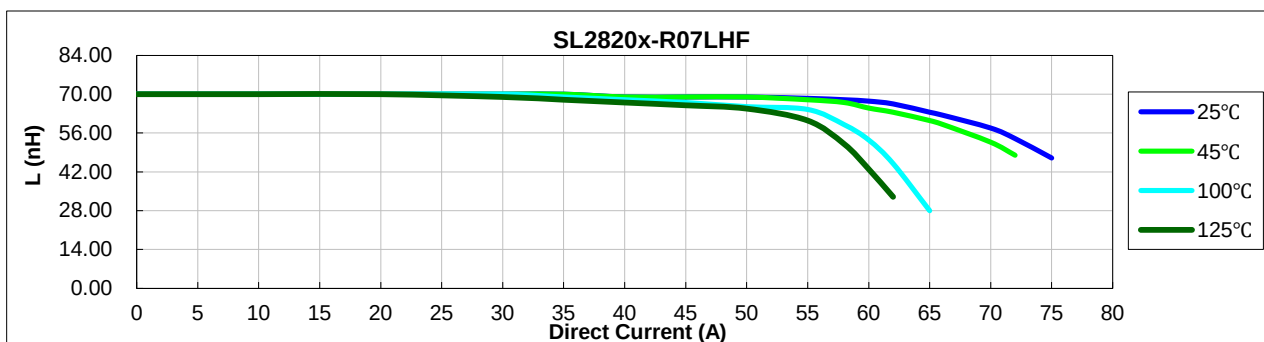
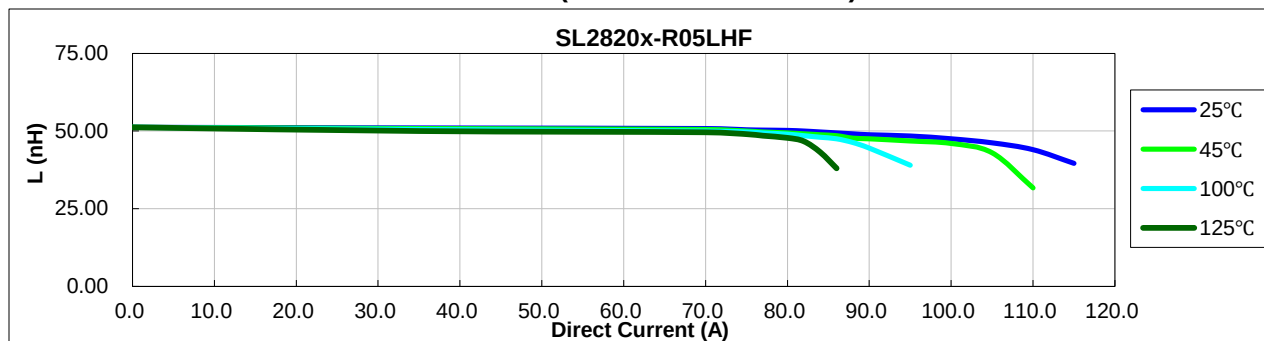


Notes:

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 (Ta=25°C).
4. Isat1, Isat2, Isat3 & Isat4 : 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.
6. It is recommended the part temperature not exceed 130° C under worst case operating conditions as verified in the end application.



4. Inductance Characteristics of SL2820 Series (Inductance vs Current):



4. Inductance Characteristics of SL2820 Series (Inductance vs Current):

