



L101158 Series



1. Features of L101158 Series :

- Ferrite based SMD inductor with lower core loss.
- Inductance Range: 330.0nH to 1600.0nH, Custom values are welcomed.
- High current output chokes, up to 65.0 Amp with approx. 20% roll off.
- 10.00 mm Max. height.
- Foot Print 10.00 x 7.00 / 7.30 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: 400 pcs , 13" Reel ;

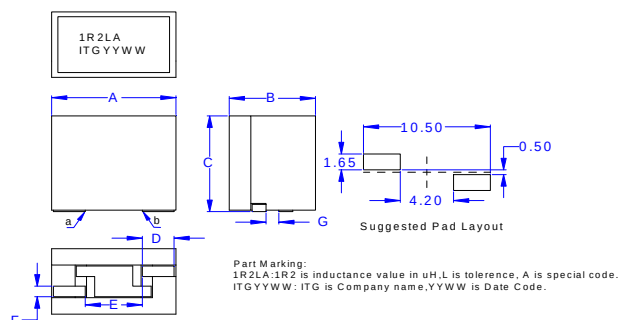


2. Electrical Characteristic of L101158 Series:

ITG Part Number	OCL ¹ (nH) ± 15%	L @ Isat1 ² (nH) Min.	DCR ³ (mΩ) ± 10%	Isat1 ⁴ (A) @25°C	Isat2 ⁴ (A) @75°C	Isat3 ⁴ (A) @100°C	Irms ⁵ (A) @25°C	Dim. B Max.
L101158A-R33LHF	330.00	231.00	0.81	65.00	58.00	53.00	30.00	7.30
L101158A-R47LHF	470.00	329.00	0.81	48.00	40.00	38.00	30.00	7.00
L101158A-R68LHF	680.00	476.00	0.81	34.00	31.00	29.00	30.00	7.00
L101158A-R82LHF	820.00	574.00	0.81	28.00	25.00	23.00	30.00	7.00
L101158A-1R0LHF	1000.00	700.00	0.81	23.00	19.00	18.00	30.00	7.00
L101158A-1R2LHF	1200.00	840.00	0.81	20.00	17.00	15.00	30.00	7.00
L101158A-1R4LHF	1400.00	980.00	0.81	16.00	14.00	13.00	30.00	7.00
L101158A-1R6LHF	1600.00	1120.00	0.81	14.00	13.00	12.00	30.00	7.00

3. Mechanical Dimension(Unit : mm):

A (Max.)	B (Max.)	C (Max.)	D ± 0.35	E (Nom.)	F ± 0.20	G ± 0.30
10.00	See above table	10.00	2.50	4.50	1.10	1.00



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 : 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.

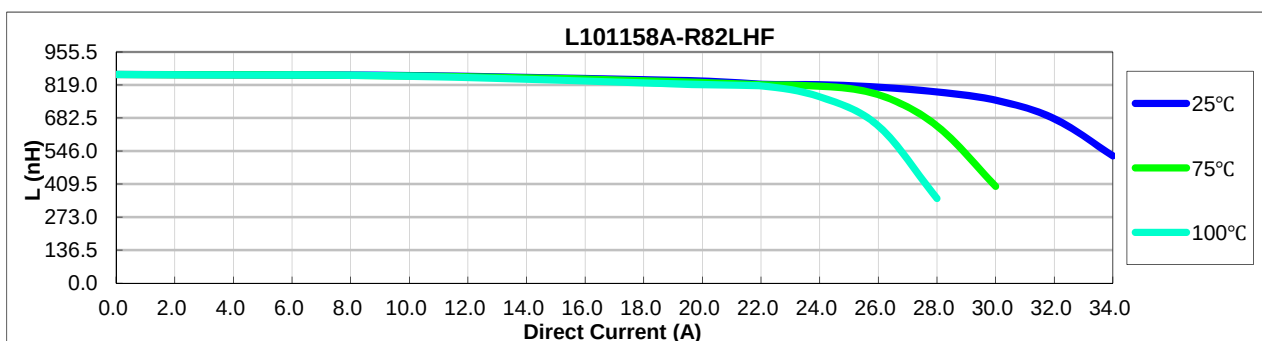
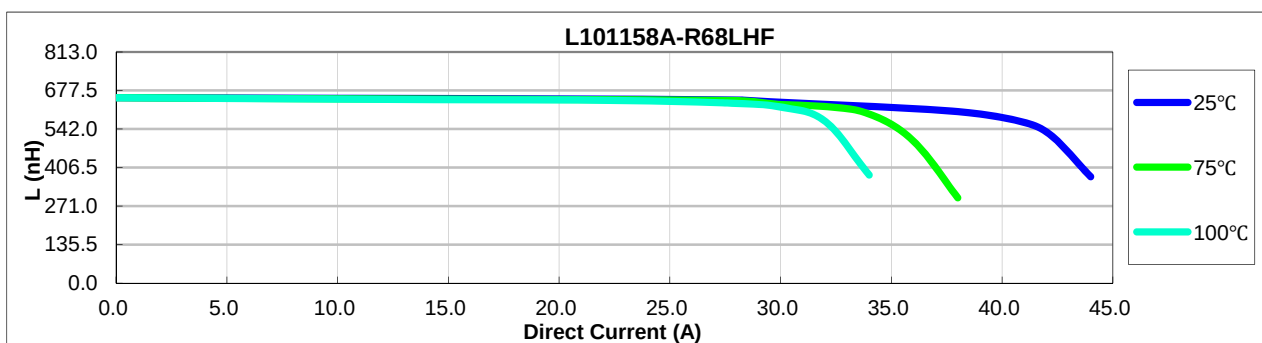
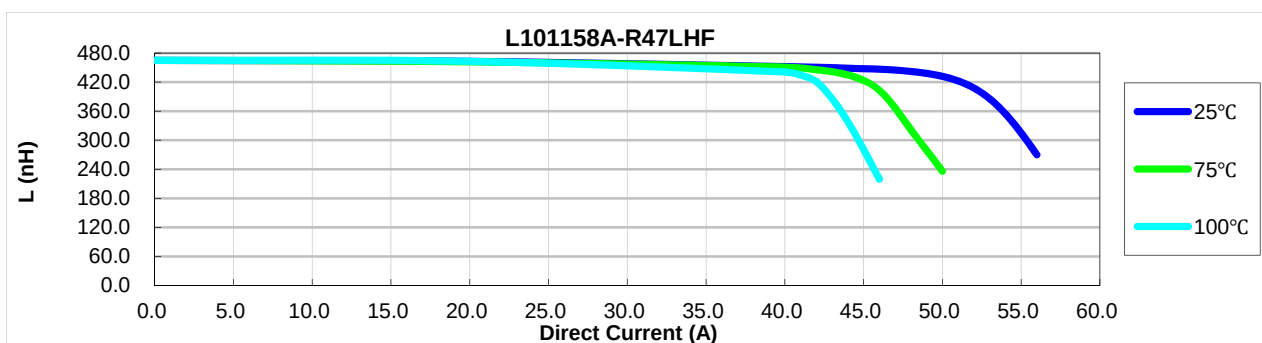
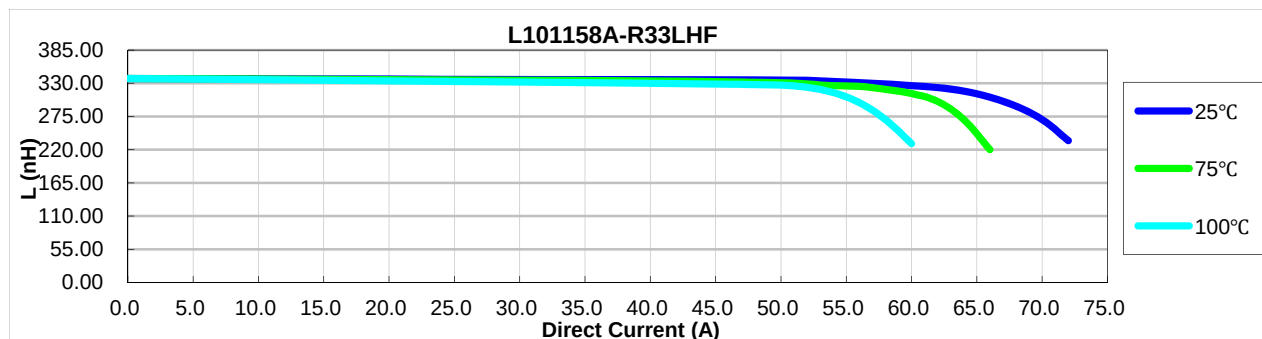


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*Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.



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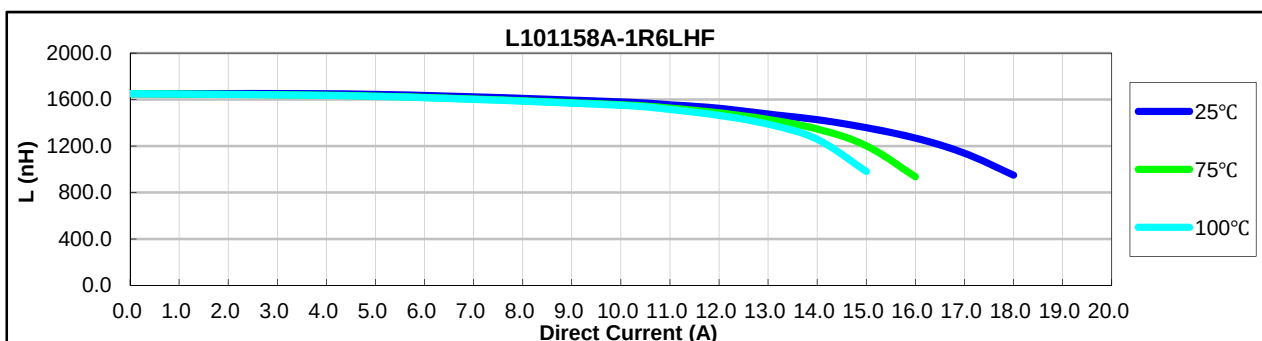
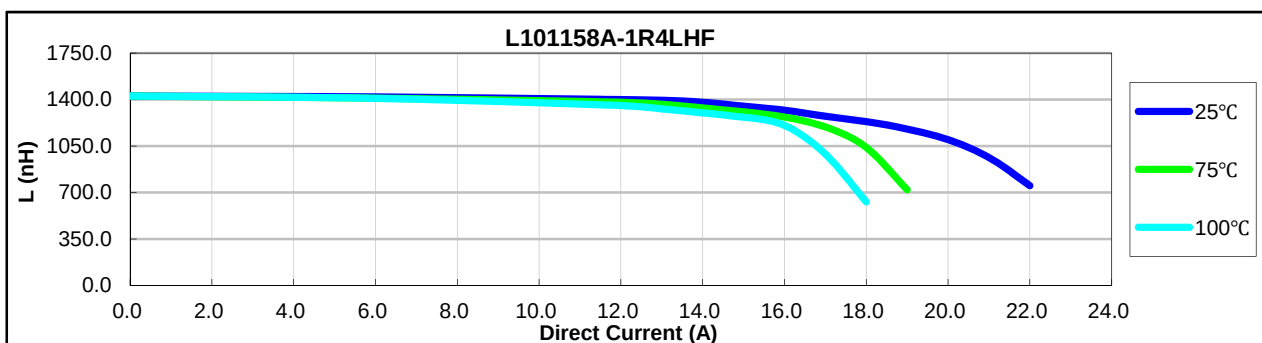
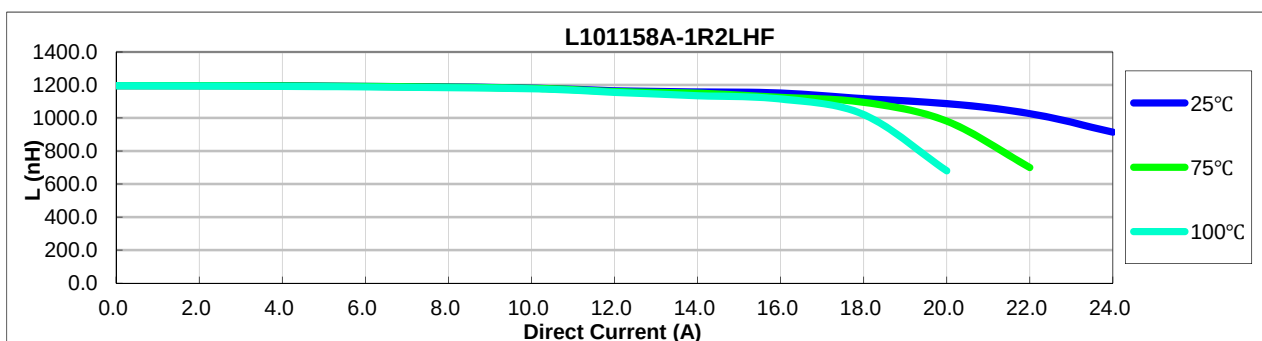
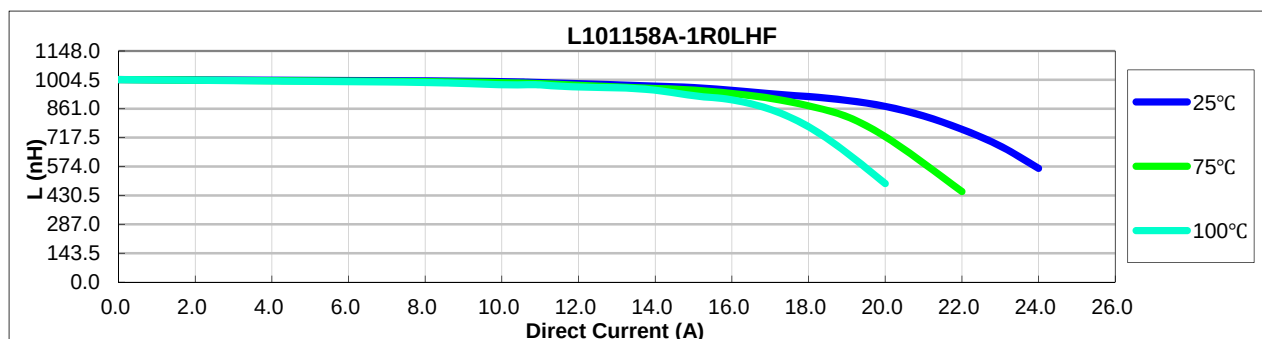


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