

L101353A Series



1. Features of L101353A Series :

- Ferrite based SMD Non-coupling dual inductor with lower core loss.
- Inductance Range: 1.0uH to 10.0uH, Custom values are welcomed.
- High current output chokes, up to 170.0 Amp with approx. 20% roll off.
- Low Profile 24.00 mm Max. height .
- Foot Print 26.00 x 24.50 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 .
- Tray Qty: 20pcs/Tray.

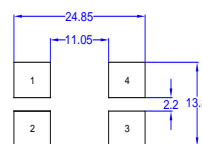
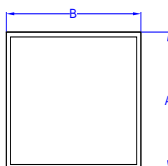


2. Electrical Characteristic of L101353A Series:

ITG Part Number	OCL ¹ (uH) ± 20%	L @ Isat1 ² (uH) Min.	DCR ³ (mΩ) Typ.	Isat1 ⁴ (A) @25°C	Isat2 ⁴ (A) @75°C	Isat3 ⁴ (A) @100°C	Irms ⁵ (A) @25°C
L101353A-1R0MHF	1.00	0.72	1.06	170.00	160.00	145.00	50.00
L101353A-2R5MHF	2.50	1.80	1.06	78.00	72.00	66.00	50.00
L101353A-3R3MHF	3.30	2.38	1.06	53.00	49.00	46.00	50.00
L101353A-3R6MHF	3.60	2.59	1.06	48.00	45.00	42.00	50.00
L101353A-4R7MHF	4.70	3.38	1.06	35.00	33.00	31.00	50.00
L101353A-6R8MHF	6.80	4.90	1.06	25.00	23.00	21.00	50.00
L101353A-100MHF	10.00	7.20	1.06	14.00	12.00	11.00	50.00

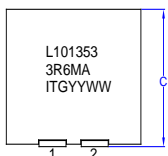
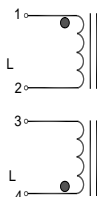
3. Mechanical Dimension(Unit : mm):

A	B	C
Max.	Max.	Max.
24.50	26.00	24.00



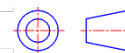
Recommended PCB layout
(View in mounting direction)

4. Schematic Diagram:



Part Marking:
L101353: L101353 is part size.
3R6MA: 3R6 is inductance value in uH(R:decimal point),
M is tolerance,A is special code.
ITGYYWW: ITG is Logo; YYWW is Date Code.

Third Angle Projection:



Notes:

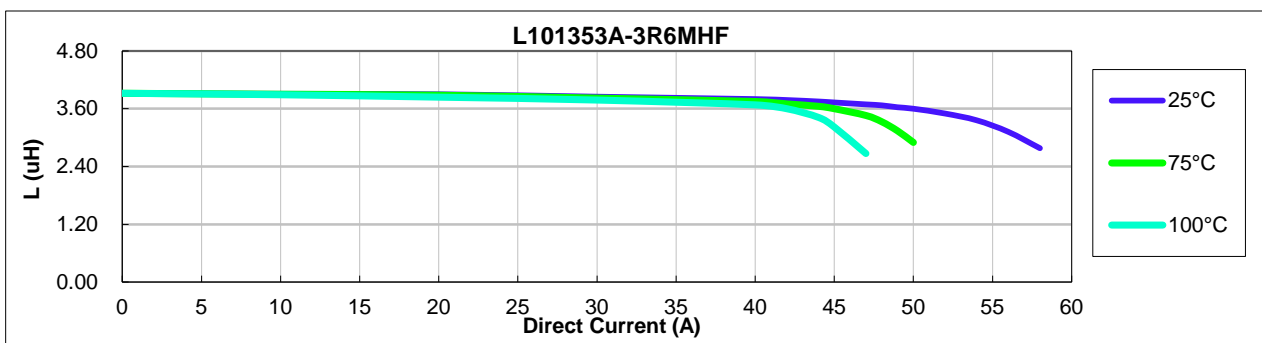
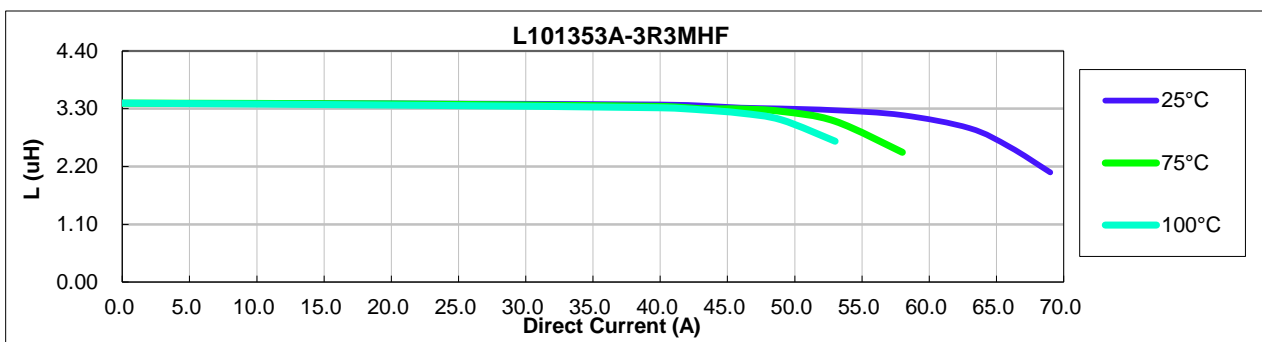
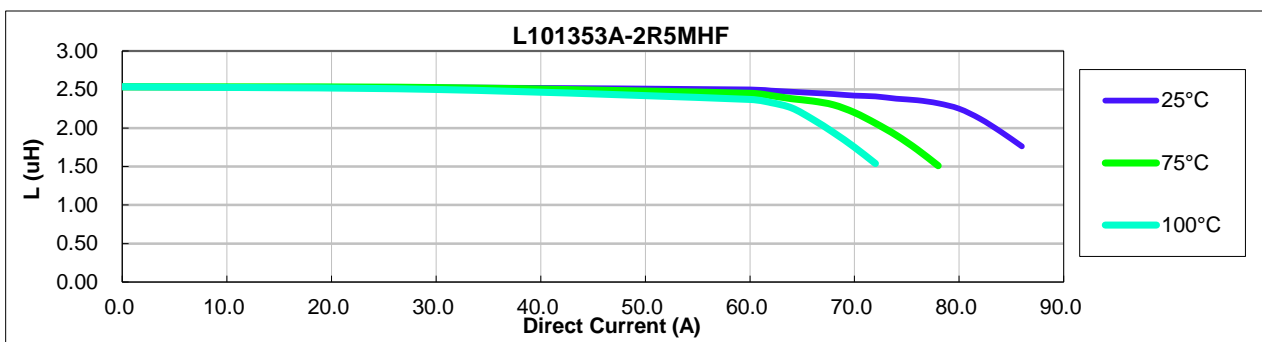
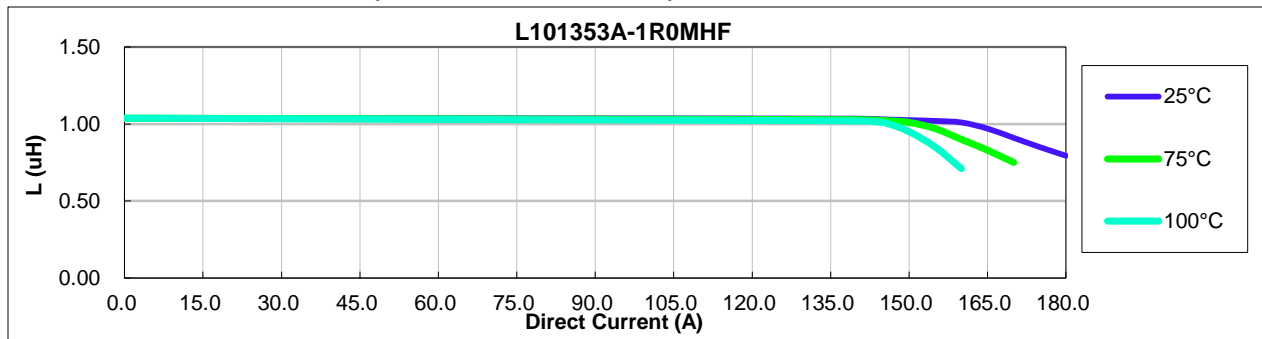
1. Open Circuit Inductance OCL(Pin1-2 and Pin3-4) test condition:150KHz,0.5Vrms,0A_{dc}, at 25 °C.
2. L @ Isat and L @ Irms Test condition:150KHz,0.5Vrms (Ta=25 °C).
3. The nominal DCR(Pin1-2=Pin4-3) is measured from point "a" to point "b", as shown above on the mechanical drawing (Ta=25°C).
4. Isat1,Isat2 & 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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4. Inductance Characteristics (Inductance vs. Current):



*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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