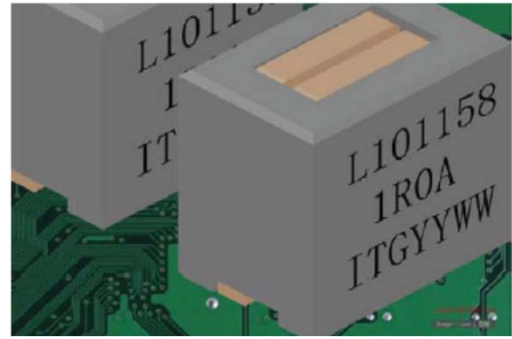


L101158 Series



1. Features of L101158 Series :

- Ferrite based SMD inductor with lower core loss.
- Inductance : 1,000.0 nH , custom values are welcomed.
- High current output chokes, up to 22.0 Amp with approx. 20% roll off.
- Low Profile 10.00 mm Max. height.
- 10.00 x 7.00 mm Foot Print.
- Ideal for Buck Converter, VRM & High Density Board Design.
- Operating frequency up to 1.0 MHz.
- Operating Temperature Range -55°C to + 130°C. RoHs & HF compliant.
- T & R Qtys: 400 pcs , 13" Reel.

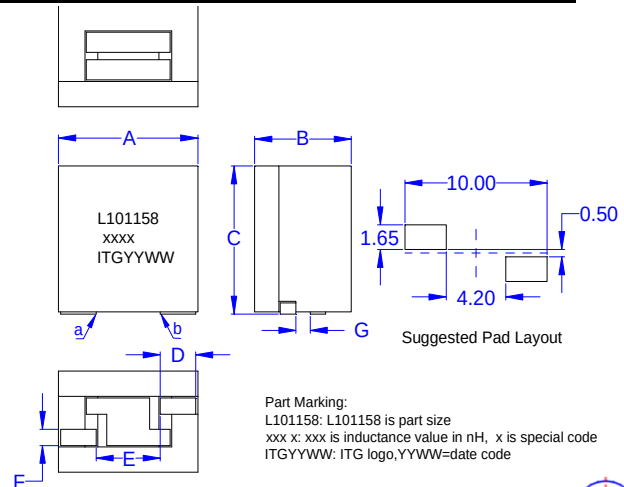


2. Electrical Characteristic of L101158 Series:

ITG Part Number	OCL ¹ (nH) ± 15%	L @ Isat1 ² (nH) Min. @25°C	DCR ³ (mΩ) ± 10.0%	Isat1 ⁴ (A) @25°C	Isat2 ⁴ (A) @75°C	Isat3 ⁴ (A) @100°C	Irms ⁵ (A) @25°C
L101158A-1R0LHF	1000.00	700.00	0.97	22.00	19.00	17.00	30.00

3. Mechanical Dimension(Unit:mm):

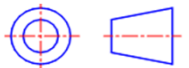
A (Max.)	B (Max.)	C (Max.)	D ± 0.35	E (Nom.)	F ± 0.20	G ± 0.30
10.00	7.00	10.00	2.50	4.50	1.10	1.00



Notes:

- 1> Open Circuit Inductance (OCL) test condition: 100KHz,0.10Vrms,0A_{dc} at 25°C.
- 2> L @ Isat and L @ Irms Test condition: 100KHz,0.10Vrms (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 as verified in the end application.

Third Angle Projection:



4. Inductance Characteristics (Inductance vs. Current):

