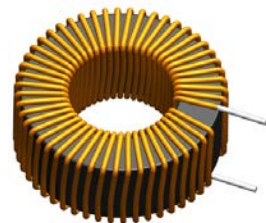
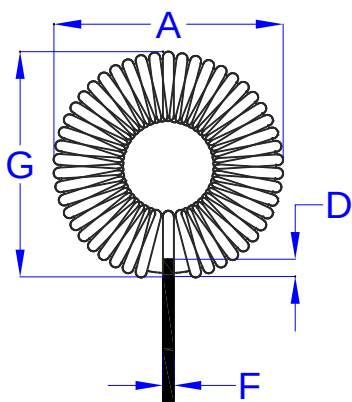


1. Features of AP1157xxx series:

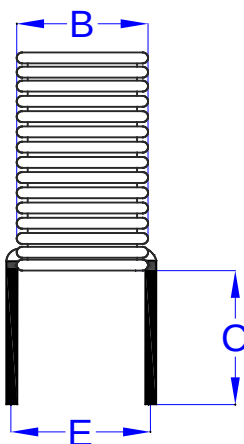
- Sendust core is used to realize lower core loss.
- No thermal aging concerns and low leakage magnetic flux.
- Elimination for impulse (EMI) noise.
- Inductance range from 200uH to 300uH. Custom values are welcomed.
- Ideally used as Power Factor Correction choke.
- Also can be used as boost inductor in power supplies.
- $\varnothing 46.0 \times 46.0 \times 20.5\text{mm}$ Max. , Custom values are welcomed.
- Operating Temperature Range: -55°C to 130°C (ambient + self-temperature rise).
- RoHs & HF compliant.



2. Mechanical Dimensions of AP1157xxx series (unit: mm):



Front View



Side View

Type	AP1157xxx
A	46.0 (Max.)
B	20.5 (Max.)
C	10.0 ± 1.0
D	0.0 (Min.)
E	See below table
F	See below table
G	46.0 (Max.)

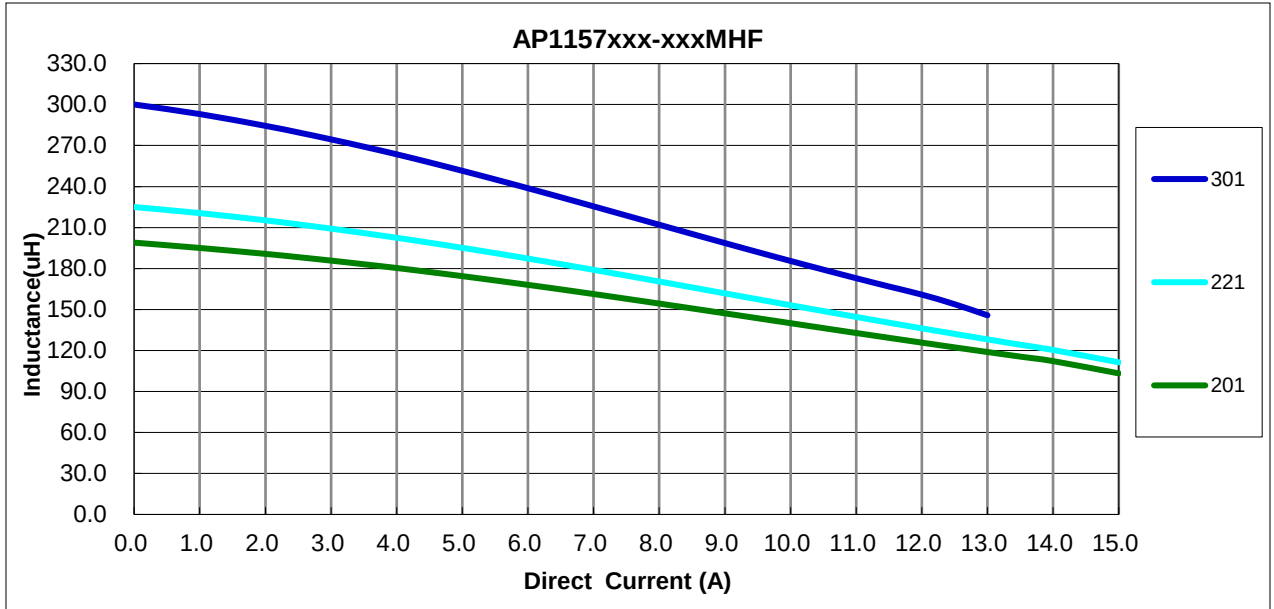
3. Electrical Characteristics of AP1157xxx series:

ITG Part Number	OCL ¹ (uH) $\pm 20\%$	DCR (m Ω) (Typ.)	DCR (m Ω) (Max.)	Irms ² (A) @25°C	L@Irms (uH) Typ.	Isat1 ³ (A) @25°C	L@Isat1 (uH) Typ.	Isat ⁴ (A) @25°C	L@Isat2 (uH) Typ.	Dim. E (mm) ± 1.0	Dim. F (mm) ± 0.1
AP115717050P-201MHF	200.00	42.61	51.50	11.00	132.81	3.50	183.13	9.50	143.60	17.00	1.10
AP115717052P-221MHF	220.00	45.56	55.00	10.00	153.15	3.30	207.23	8.80	163.54	17.00	1.10
AP115717061P-301MHF	300.00	54.62	66.00	8.00	212.03	2.70	276.55	7.50	218.75	17.00	1.10

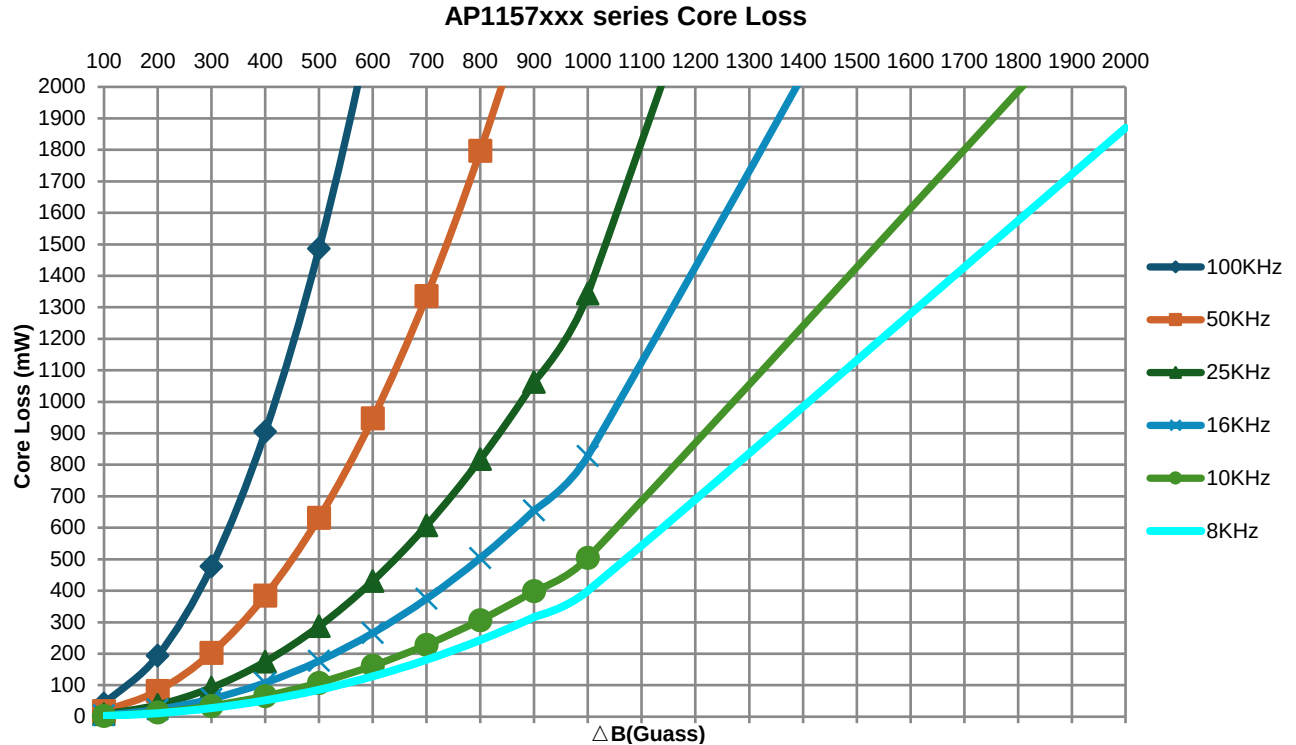
Notes:

1. OCL (Open Circuit Inductance) and L@ Irms and L @Isat are measured at 100KHz, 0.25V @ 25°C.
2. Irms: DC current that causes an approximate temperature rise (ΔT) of 40°C.
3. Isat1: DC current that causes inductance to drop by approximately 10% from OCL.
4. Isat2: DC current that causes inductance to drop by approximately 30% from OCL.

4. Inductance vs. Current Characteristics of AP1157xxx Series:



5. Core Loss Curves:



Where $\Delta B = k \cdot L(uH) \cdot \Delta I(Amp.)$

k: 201 is 1.9 , 221 is 1.8 , 301 is 1.5