

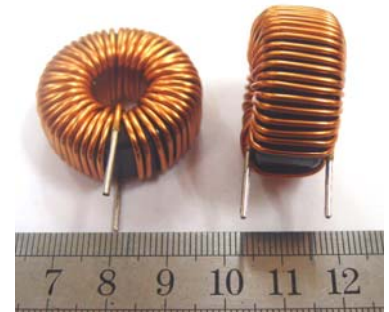


AP1184xxx Series

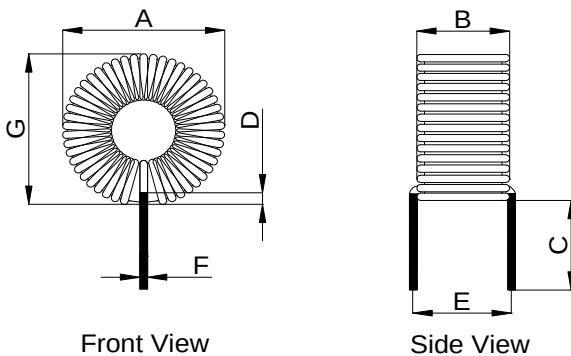


1. Features:

- Sendust core is used to realize lower core loss.
- No thermal aging concerns.
- Low leakage magnetic flux.
- Elimination for impulse (EMI) noise.
- Ideally used as Power Factor Correction choke.
- Also can be used as boost inductor in power supplies.
- $\varnothing 55.0 \times 55.0 \times 26.0\text{mm}$ Max. Custom values are welcomed.
- Operating Temperature Range -55°C to $+130^{\circ}\text{C}$; RoHs & HF compliance.



2. Mechanical Dimension (Unit: mm):



Type	AP1184xxx
A	55.0 (Max.)
B	26.0(Max.)
C	10.0 ± 1.0
D	0.0 (Min.)
E	See below table
F	See below table
G	55.0 (Max.)

3. Electrical Characteristics of AP1184xxx Series:

Part Number	OCL (μH) $\pm 20\%$	DCR ($\text{m}\Omega$) (Typ.)	DCR ($\text{m}\Omega$) (Max.)	I _{rms} (A) @25°C	L@I _{rms} (μH) Typ.	I _{sat} ¹ (A) @25°C	L@I _{sat} ¹ (μH) Typ.	I _{sat} ² (A) @25°C	L@I _{sat} ² (μH) Typ.	Dim. E (mm) ± 1.0	Dim. F (mm) ± 0.1
AP118415039P-201MHF	200.00	24.14	30.20	16.00	125.45	4.00	189.47	12.00	148.03	22.00	1.50
AP118415041P-221MHF	220.00	25.36	32.00	15.00	135.34	3.80	201.20	11.50	157.31	22.00	1.50
AP118415047P-301MHF	300.00	29.92	38.00	13.00	184.01	3.20	278.52	9.50	219.30	22.00	1.50

Note:

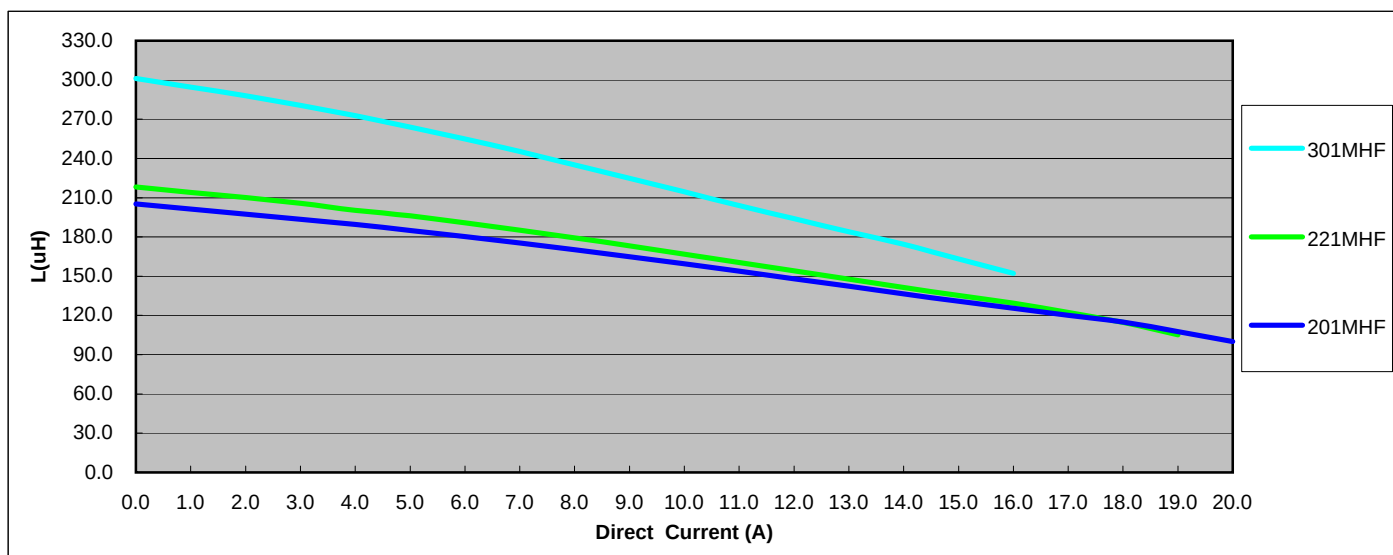
- 1.OCL (Open Circuit Inductance) and L@ I_{rms} and L @I_{sat} are measured at: 100KHz, 0.25V @ 25°C.
- 2.I_{sat}¹: DC current that causes inductance to drop by approximately 10% from OCL.
- 3.I_{sat}²: DC current that causes inductance to drop by approximately 30% from OCL.
- 4.I_{rms}: DC current that causes an approximate temperature rise (ΔT) of 40°C
- 5.Inductance vs. DC bias curve and Typical Core Loss curve, please refer to the next page for additional information.



AP1184xxx Series



Inductance vs. Current



Typical Core Loss Curves

