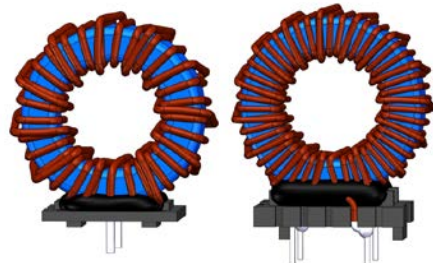


1. Features of PFC157181D Series :

- Alloy powder based DIP Inductor with lower core loss.
- No thermal aging concerns.
- Low leakage magnetic flux.
- Elimination for impulse (EMI) noise.
- Inductance Range: 100.0uH to 1000.0uH, custom values are welcomed.
- High current output chokes, up to 27.1 Amp with approx. 50% roll off.
- Designed and developed for Power Factor Correction applications.
- Foot Print: 40.0×20.0mm max., 46.0 max. Height.
- Surge Voltage: 400VDC.
- Operating Temperature Range: -55°C to + 130°C.
- RoHs & HF compliant.



2. Electrical Characteristics of PFC157181D Series:.

ITG Part Number	OCL ¹ (uH) ±10%	DCR (mΩ) Max.	Isat1 ² (A) @25°C	L@Isat1 ² (uH) Min.	Isat2 ² (A) @25°C	L@Isat2 ² (uH) Min.	Isat3 ² (A) @25°C	L@Isat3 ² (uH) Min.	Irms ³ (A) @25°C
PFC157181D-101K	100.0	20.0	13.8	75.4	17.8	64.7	27.1	44.8	14.7
PFC157181D-201K	200.0	36.5	9.9	145.8	12.8	125.0	19.5	86.6	10.7
PFC157181D-251K	250.0	46.5	8.8	183.8	11.4	157.6	17.3	109.1	9.4
PFC157181D-351K	350.0	62.5	7.4	259.3	9.6	222.3	14.6	153.9	8.1
PFC157181D-471K	470.0	96.0	6.4	347.6	8.3	298.1	12.6	206.4	6.3
PFC157181D-561K	560.0	106.0	5.9	413.7	7.6	354.8	11.5	245.6	6.0
PFC157181D-691K	690.0	143.0	5.3	504.4	6.9	432.5	10.4	299.5	5.1
PFC157181D-821K	820.0	198.0	4.8	604.1	6.3	518.0	9.5	358.7	4.3
PFC157181D-102K	1000.0	279.0	4.4	735.5	5.7	630.7	8.6	436.7	3.6

Notes:

1. Open Circuit Inductance (OCL) and L@Isat are measured at 100KHz, 0.25V @ 25°C.
2. Isat1: DC current that causes inductance to drop 20%(Typ.) from OCL (Ta=25°C).
Isat2: DC current that causes inductance to drop 30%(Typ.) from OCL (Ta=25°C).
Isat3: DC current that causes inductance to drop 50%(Typ.) from OCL (Ta=25°C).
3. Irms: DC current that causes an approximate temperature rise (ΔT) of 40°C (Ta=25°C).

3. Mechanical Dimension of PFC157181D Series (Unit:mm):

ITG Part Number	Dim. A (mm) Max.	Dim. B (mm) Max.	Dim. C (mm) Max.	Dim. D (mm) ±0.5	Dim. E (mm) ±0.5	Dim. E1 (mm) ±0.5	Dim. E2 (mm) ±0.5	Dim. F (mm) ±0.1	Dim. H (mm) Ref.	Fig.
PFC157181D-101K	40.0	19.0	43.5	5.0	12.5	/	/	Φ1.6	Φ2.1	1
PFC157181D-201K	39.5	18.5	43.0	5.0	12.5	/	/	Φ1.4	Φ1.9	1
PFC157181D-251K	39.5	18.5	43.0	5.0	12.5	/	/	Φ1.3	Φ1.8	1
PFC157181D-351K	39.0	20.0	46.0	5.0	/	15.0	15.0	Φ1.0	Φ1.5	2
PFC157181D-471K	39.0	20.0	46.0	5.0	/	15.0	15.0	Φ1.0	Φ1.5	2
PFC157181D-561K	38.5	19.5	45.5	5.0	/	15.0	15.0	Φ1.0	Φ1.5	2
PFC157181D-691K	38.5	19.5	45.5	5.0	/	15.0	15.0	Φ1.0	Φ1.5	2
PFC157181D-821K	38.0	19.5	45.0	5.0	/	15.0	15.0	Φ1.0	Φ1.5	2
PFC157181D-102K	38.0	19.5	45.0	5.0	/	15.0	15.0	Φ1.0	Φ1.5	2

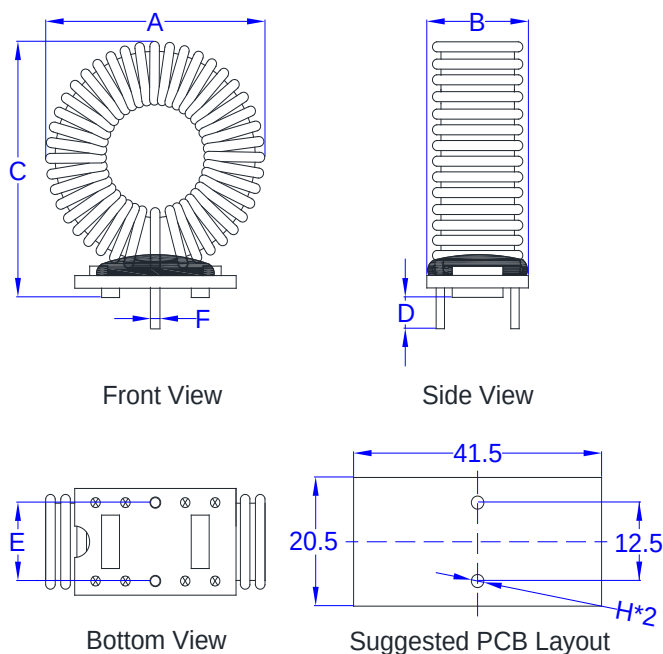


Fig. 1

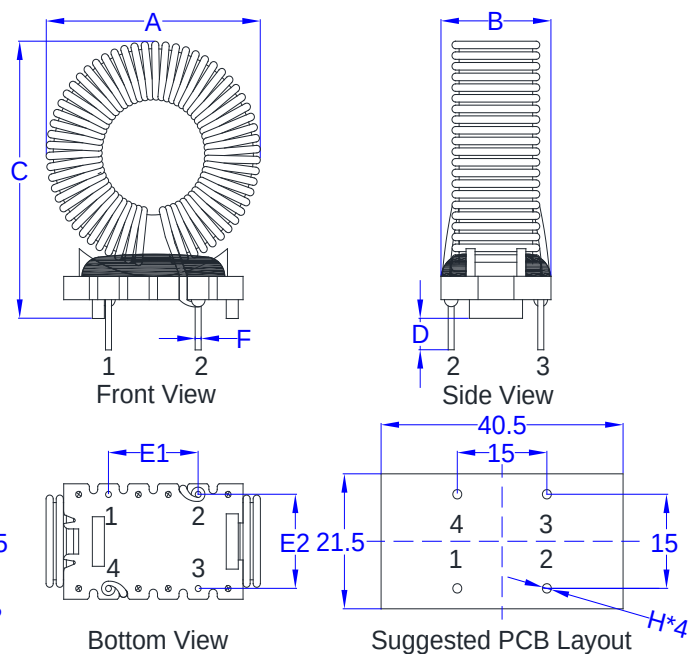
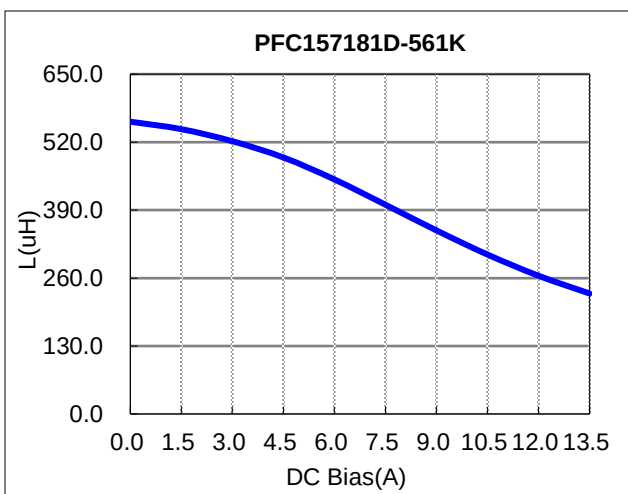
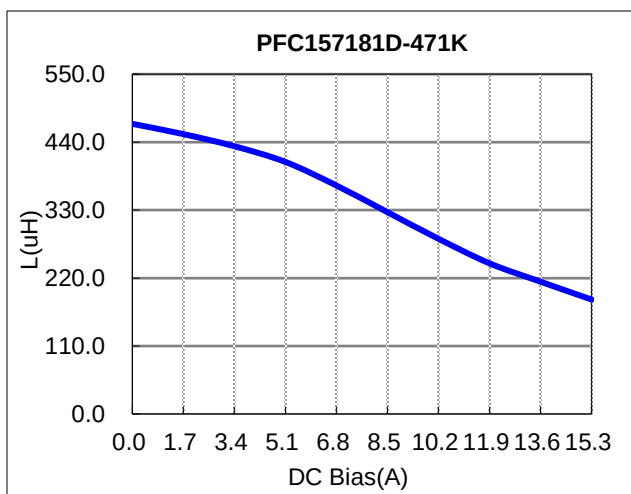
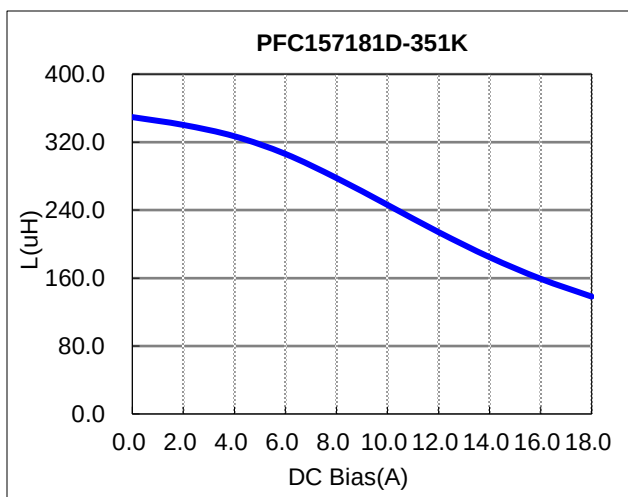
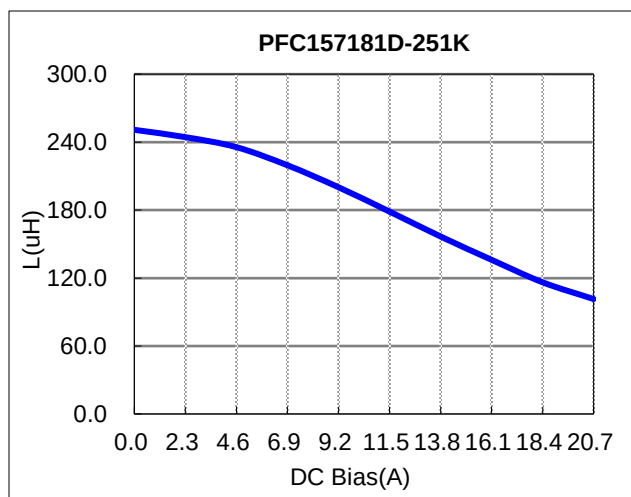
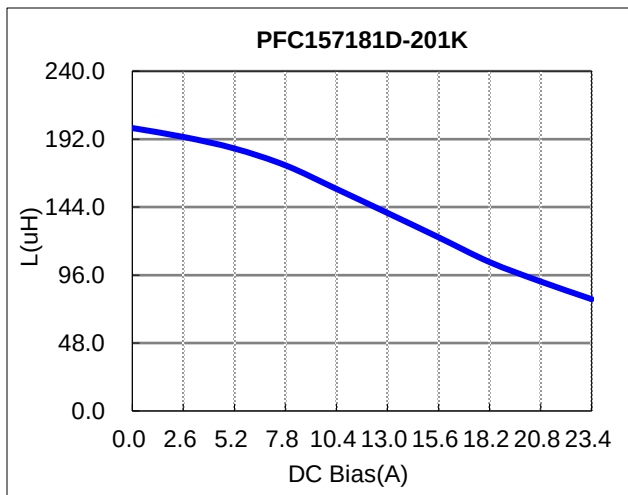
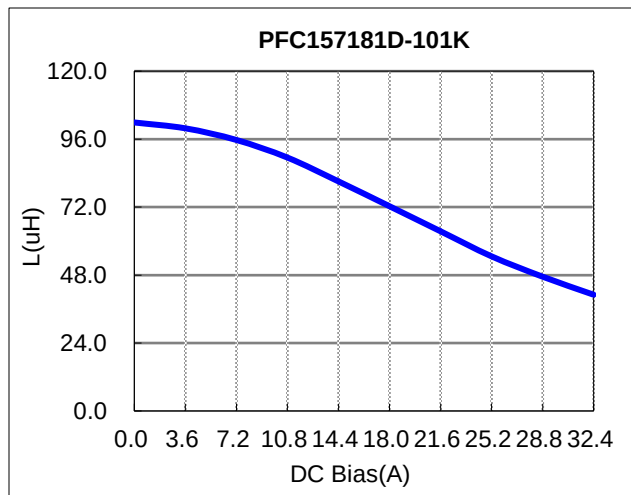


Fig. 2

Note: PIN1 & PIN3 provided for mounting stability only.

4. Inductance vs. Current Characteristics of PFC157181D Series :



4. Inductance vs. Current Characteristics of PFC157181D Series :

