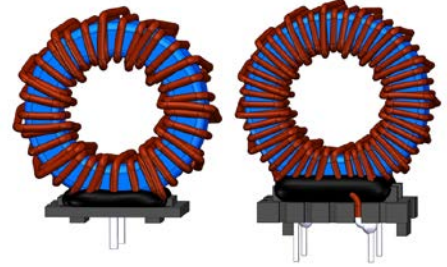


## 1. Features of PFC167193B Series :

- 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 29.5 Amp with approx. 50% roll off.
- Designed and developed for Power Factor Correction applications.
- Foot Print: 42.5x20.0mm max., 49.0 max. Height.
- Surge Voltage: 400VDC.
- Operating Temperature Range: -55°C to + 130°C.
- RoHs & HF compliant.



## 2. Electrical Characteristics of PFC167193B Series:.

ITG Part Number	OCL <sup>1</sup> (uH) ±10%	DCR (mΩ) Max.	Isat1 <sup>2</sup> (A) @25°C	L@Isat1 <sup>2</sup> (uH) Min.	Isat2 <sup>2</sup> (A) @25°C	L@Isat2 <sup>2</sup> (uH) Min.	Isat3 <sup>2</sup> (A) @25°C	L@Isat3 <sup>2</sup> (uH) Min.	Irms <sup>3</sup> (A) @25°C
PFC167193B-101K	100.0	20.5	15.4	76.2	20.2	65.3	29.5	45.2	15.3
PFC167193B-201K	200.0	38.0	11.0	148.3	14.5	127.2	21.2	88.1	11.1
PFC167193B-251K	250.0	47.5	9.9	185.0	13.0	158.6	18.9	109.8	9.8
PFC167193B-351K	350.0	64.5	8.4	257.2	11.0	220.5	16.1	152.7	8.4
PFC167193B-471K	470.0	85.0	7.2	348.8	9.4	299.1	13.8	207.1	7.1
PFC167193B-561K	560.0	111.0	6.6	412.1	8.7	353.4	12.7	244.7	6.1
PFC167193B-691K	690.0	128.0	5.9	507.8	7.8	435.4	11.4	301.5	5.7
PFC167193B-821K	820.0	170.0	5.4	603.4	7.2	517.4	10.5	358.2	4.9
PFC167193B-102K	1000.0	228.5	4.9	740.0	6.5	634.6	9.4	439.4	4.2

### 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 PFC167193B 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.
PFC167193B-101K	42.5	18.0	46.0	5.0	12.5	/	/	Φ1.60	Φ2.1	1
PFC167193B-201K	42.5	18.0	46.0	5.0	12.5	/	/	Φ1.40	Φ1.9	1
PFC167193B-251K	42.5	18.0	46.0	5.0	12.5	/	/	Φ1.30	Φ1.8	1
PFC167193B-351K	42.0	20.0	49.0	5.0	/	15.0	15.0	Φ1.00	Φ1.5	2
PFC167193B-471K	42.0	20.0	49.0	5.0	/	15.0	15.0	Φ1.00	Φ1.5	2
PFC167193B-561K	41.5	19.5	48.5	5.0	/	15.0	15.0	Φ1.00	Φ1.5	2
PFC167193B-691K	41.5	19.5	48.5	5.0	/	15.0	15.0	Φ1.00	Φ1.5	2
PFC167193B-821K	41.5	19.5	48.5	5.0	/	15.0	15.0	Φ1.00	Φ1.5	2
PFC167193B-102K	41.5	19.5	48.5	5.0	/	15.0	15.0	Φ1.00	Φ1.5	2

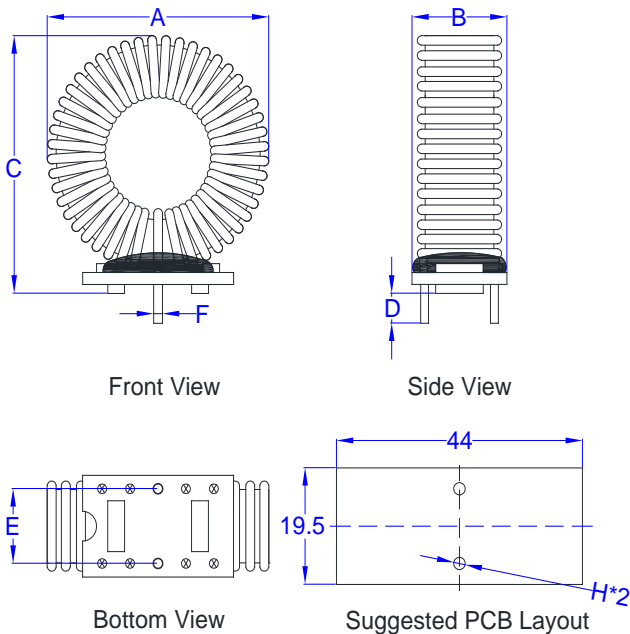


Fig. 1

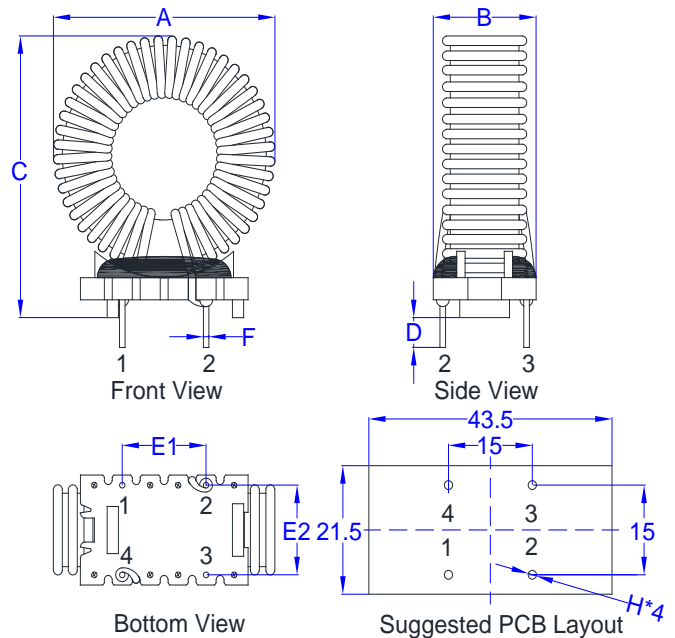
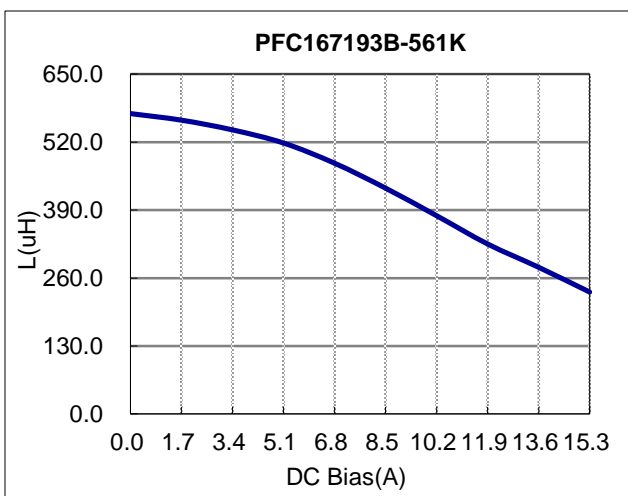
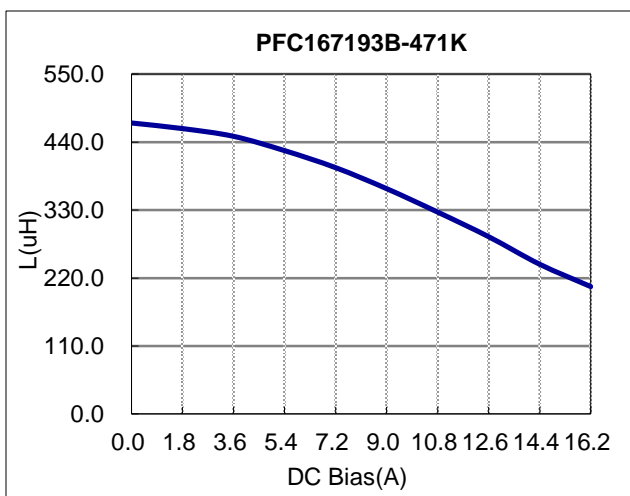
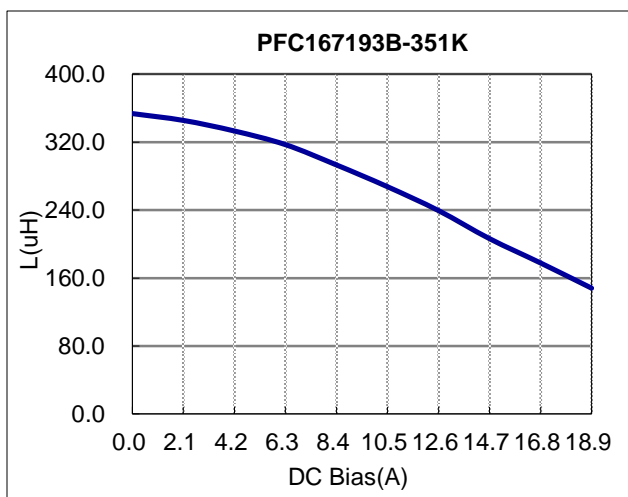
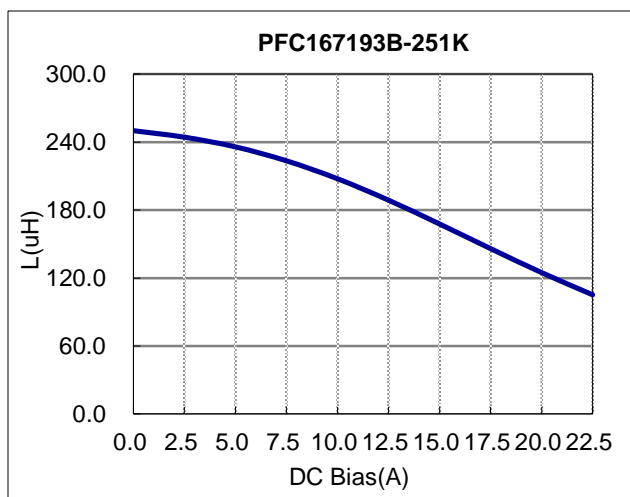
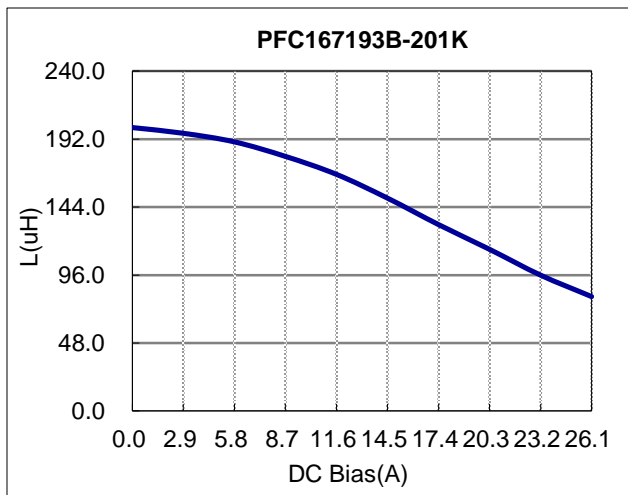
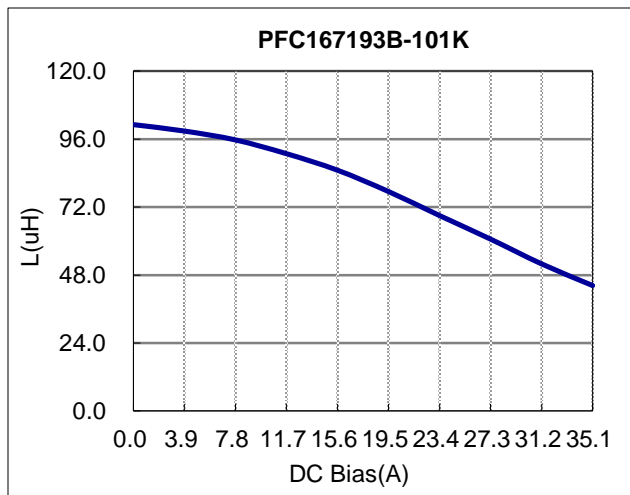


Fig. 2

Note: PIN1 & PIN3 provided for mounting stability only.

## 4. Inductance vs. Current Characteristics of PFC167193B Series :





#### 4. Inductance vs. Current Characteristics of PFC167193B Series :

