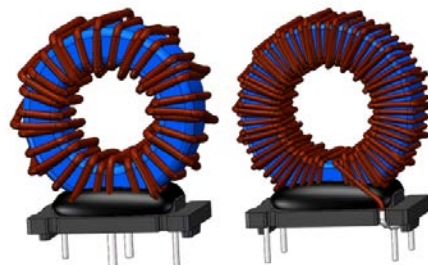


1. Features of PFC183209D Series :

- 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 38.4 Amp with approx. 50% roll off.
- Designed and developed for Power Factor Correction applications.
- Foot Print: 46.5×27.0mm max., 53.0 max. Height.
- Surge Voltage: 400VDC.
- Operating Temperature Range: -55°C to + 130°C.
- RoHs & HF compliant.



2. Electrical Characteristics of PFC183209D 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
PFC183209D-101K	100.0	17.0	19.5	73.0	25.3	62.6	38.4	43.3	19.4
PFC183209D-201K	200.0	29.5	13.7	149.0	17.7	127.8	26.8	88.4	14.5
PFC183209D-251K	250.0	33.0	12.2	186.9	15.8	160.3	24.0	111.0	13.7
PFC183209D-351K	350.0	49.0	10.3	259.6	13.4	222.6	20.3	154.1	11.1
PFC183209D-471K	470.0	68.0	9.0	344.3	11.6	295.2	17.6	204.4	9.4
PFC183209D-561K	560.0	78.5	8.2	410.6	10.6	352.1	16.1	243.8	8.5
PFC183209D-691K	690.0	104.5	7.4	504.5	9.6	432.6	14.6	299.6	7.3
PFC183209D-821K	820.0	137.5	6.7	608.1	8.7	521.4	13.3	361.0	6.3
PFC183209D-102K	1000.0	183.0	6.1	734.5	7.9	629.8	12.1	436.1	5.4

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 PFC183209D Series (Unit:mm):

ITG Part Number	Dim. A (mm) Max.	Dim. B (mm) Max.	Dim. C (mm) Max.	Dim. D (mm) ±0.5	Dim. E1 (mm) ±0.5	Dim. E2 (mm) ±0.5	Dim. E3 (mm) ±0.5	Dim. E4 (mm) ±0.5	Dim. F1 (mm) ±0.1	Dim. F2 (mm) ±0.1	Dim. H (mm) Ref.	Fig.
PFC183209D-101K	46.5	27.0	53.0	5.0	15.0	15.0	18.0	/	Φ1.2	Φ1.8	Φ2.3	1
PFC183209D-201K	46.5	27.0	53.0	5.0	15.0	15.0	18.0	/	Φ1.2	Φ1.6	Φ2.1	1
PFC183209D-251K	46.5	27.0	53.0	5.0	15.0	15.0	18.0	/	Φ1.2	Φ1.6	Φ2.1	1
PFC183209D-351K	46.0	27.0	52.5	5.0	15.0	15.0	18.0	/	Φ1.2	Φ1.4	Φ1.9	1
PFC183209D-471K	46.0	27.0	52.5	5.0	15.0	15.0	18.0	/	Φ1.2	Φ1.3	Φ1.8	1
PFC183209D-561K	46.0	27.0	52.5	5.0	/	/	18.0	30.0	Φ1.2	/	Φ1.7	2
PFC183209D-691K	45.5	27.0	52.0	5.0	/	/	18.0	30.0	Φ1.2	/	Φ1.7	2
PFC183209D-821K	45.5	27.0	52.0	5.0	/	/	18.0	30.0	Φ1.2	/	Φ1.7	2
PFC183209D-102K	45.5	27.0	52.0	5.0	/	/	18.0	30.0	Φ1.2	/	Φ1.7	2

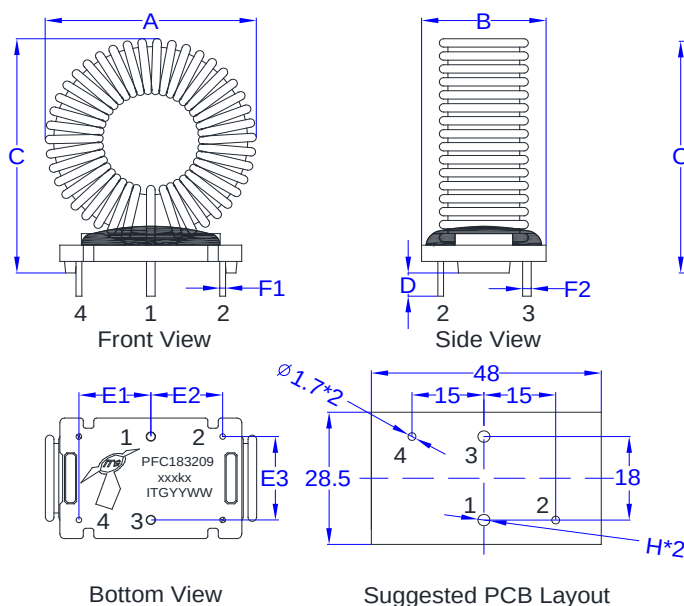


Fig. 1

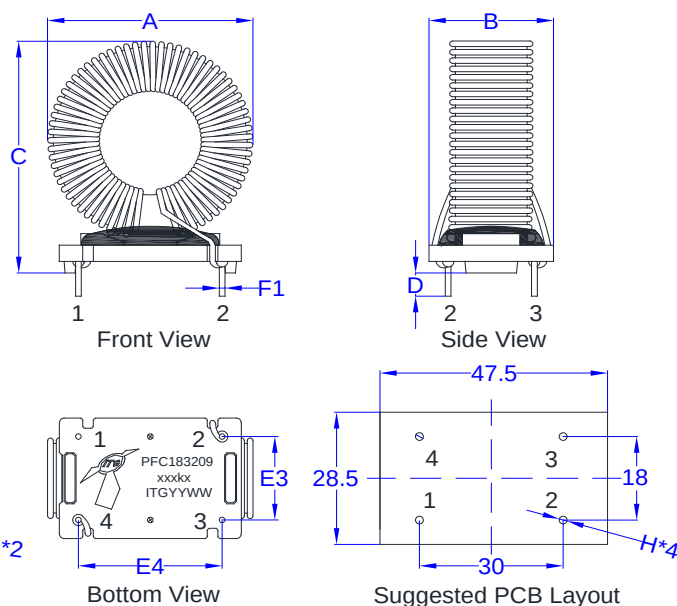


Fig. 2

Part Marking:

PFC183209: Series Name.

xxxKx: xxx is inductance value in uH (R: decimal point),

K is tolerance, x is special code.

ITGYYWW: ITG is Company Name and YYWW is Date Code.

Note:

Fig.1 : PIN2 & PIN4 provided for mounting stability only.

Fig.2 : PIN1 & PIN3 provided for mounting stability only.

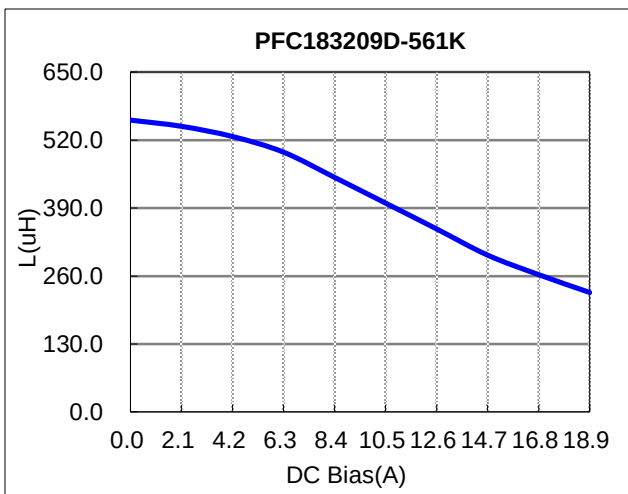
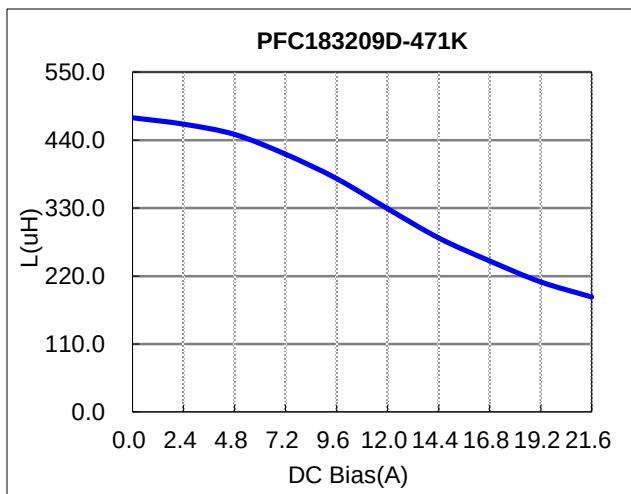
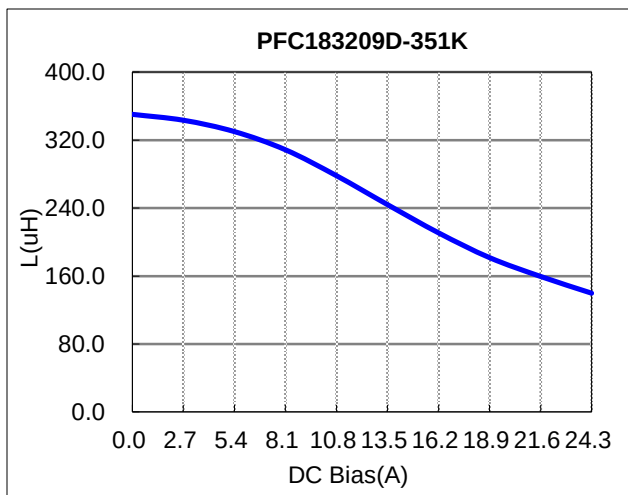
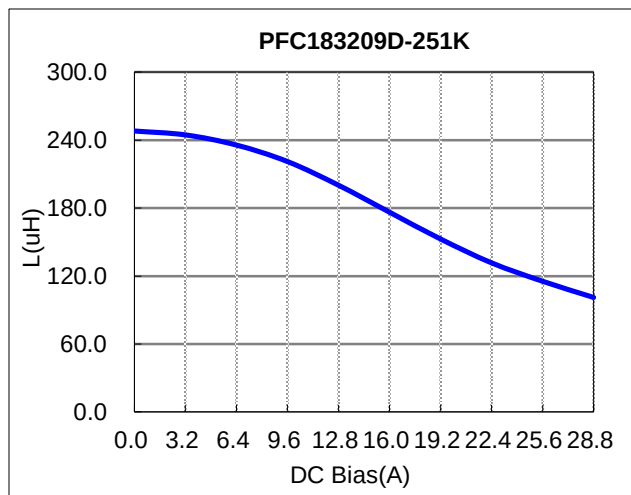
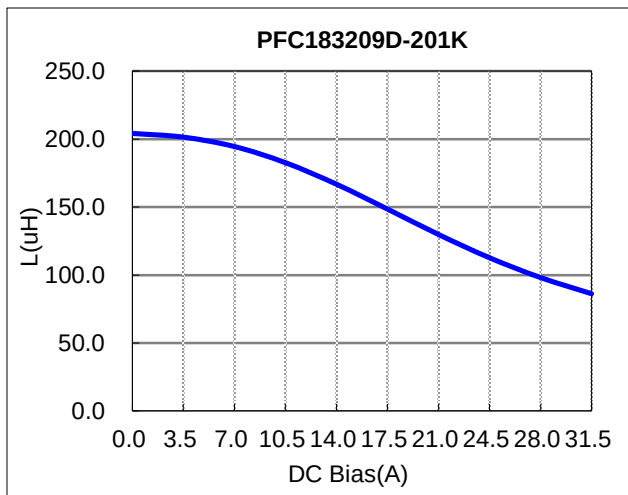
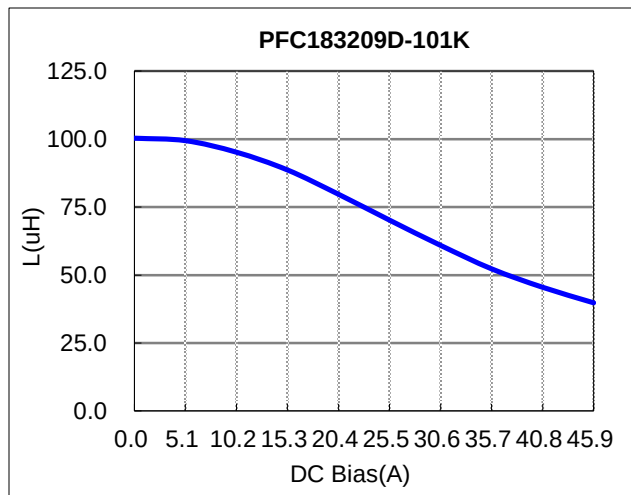
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*Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.

4. Inductance vs. Current Characteristics of PFC183209D Series :



4. Inductance vs. Current Characteristics of PFC183209D Series :

