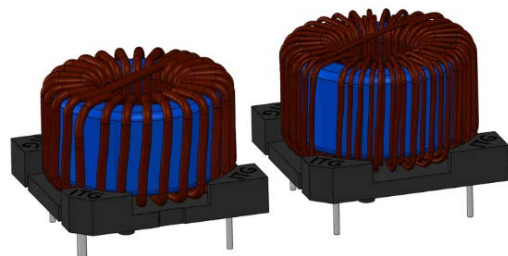


1. Features of PFC173136D Series :

- Alloy powder based DIP Inductor with lower core loss.
- No thermal aging concerns.
- Low leakage magnetic flux.
- Elimination for impulse (EMI) noise.
- Inductance Range: 104.0uH to 2200.0uH, custom values are welcomed.
- High current output chokes, up to 37.1 Amp with approx. 50% roll off.
- Designed and developed for Power Factor Correction applications.
- Foot Print: 43.9x43.9mm max., 34.5 max. Height.
- Surge Voltage: 400VDC.
- Operating Temperature Range: -55°C to + 130°C.
- RoHs & HF compliant.



2. Electrical Characteristics of PFC173136D Series:

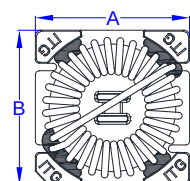
ITG Part Number	OCL ¹ (uH) ± 10%	DCR (mΩ) Max.	Isat1 ² (A) @25°C	L@Isat1 ² (uH) Min.	Isat2 ² (A) @25°C	L@Isat2 ² (uH) Min.	Isat3 ² (A) @25°C	L@Isat3 ² (uH) Min.	Irms ³ (A) @25°C
PFC173136D-101K	104.0	17.3	18.9	76.9	24.4	65.9	37.1	45.6	20.2
PFC173136D-201K	203.0	30.5	13.5	149.5	17.5	128.2	26.6	88.7	14.3
PFC173136D-251K	250.0	38.0	12.2	183.7	15.8	157.5	24.0	109.1	12.6
PFC173136D-351K	350.0	51.0	10.4	254.3	13.4	218.1	20.4	151.0	10.8
PFC173136D-471K	470.0	67.0	8.9	346.2	11.5	296.8	17.5	205.5	9.3
PFC173136D-561K	560.0	77.0	8.2	408.1	10.6	349.9	16.1	242.3	8.9
PFC173136D-691K	690.0	95.0	7.3	510.4	9.5	437.7	14.4	303.1	7.8
PFC173136D-821K	820.0	104.0	6.7	598.0	8.7	512.8	13.3	355.0	7.5
PFC173136D-102K	1000.0	134.0	6.1	735.1	7.9	630.3	12.0	436.4	6.5
PFC173136D-122K	1200.0	154.0	5.3	886.3	7.0	760.0	10.6	526.2	6.2
PFC173136D-152K	1500.0	203.0	4.8	1104.0	6.2	946.6	9.5	655.5	5.3
PFC173136D-222K	2200.0	305.0	3.9	1632.4	5.1	1399.8	7.8	969.2	4.3

Notes:

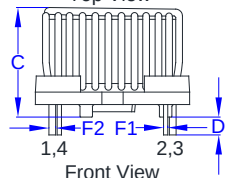
1. Open Circuit Inductance (OCL ≤1000.0uH) and L@Isat are measured at 100KHz,0.25V@ 25°C.
Open Circuit Inductance (OCL >1000.0uH) and L@Isat are measured at 10KHz,0.25V@ 25°C.
2. Isat1: DC current that causes inductance to drop 20%(Typ.) from OCL (Ta=25°C).
Isat2: DC current that causes inductance to 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 PFC173136D Series (Unit:mm):

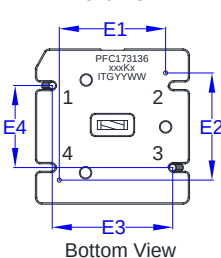
ITG Part Number	Dim. A (mm) ±0.4	Dim. B (mm) ±0.4	Dim. C (mm) Max.	Dim. D (mm) ±1.0	Dim. E1 (mm) ±0.4	Dim. E2 (mm) ±0.4	Dim. E3 (mm) ±0.6	Dim. E4 (mm) ±0.6	Dim. F1 (mm) ±0.1	Dim. F2 (mm) ±0.1	H (mm) Ref.	Fig.
PFC173136D-101K	43.5	43.5	34.5	5.0	30.0	30.0	34.0	23.0	Φ1.2	Φ1.9	Φ2.5	1
PFC173136D-201K	43.5	43.5	34.5	5.0	30.0	30.0	34.0	23.0	Φ1.2	Φ1.6	Φ2.2	1
PFC173136D-251K	43.5	43.5	34.5	5.0	30.0	30.0	34.0	23.0	Φ1.2	Φ1.5	Φ2.1	1
PFC173136D-351K	43.5	43.5	34.5	5.0	30.0	30.0	34.0	23.0	Φ1.2	Φ1.4	Φ2.0	1
PFC173136D-471K	43.5	43.5	34.5	5.0	30.0	30.0	34.0	23.0	Φ1.2	Φ1.3	Φ1.9	1
PFC173136D-561K	43.5	43.5	34.5	5.0	30.0	30.0	34.0	23.0	Φ1.2	Φ1.3	Φ1.9	1
PFC173136D-691K	43.5	43.5	34.0	5.0	30.0	30.0	/	/	/	Φ1.2	Φ1.6	2
PFC173136D-821K	43.5	43.5	34.0	5.0	30.0	30.0	/	/	/	Φ1.2	Φ1.6	2
PFC173136D-102K	43.5	43.5	34.0	5.0	30.0	30.0	/	/	/	Φ1.2	Φ1.6	2
PFC173136D-122K	43.5	43.5	34.0	5.0	30.0	30.0	/	/	/	Φ1.2	Φ1.6	2
PFC173136D-152K	43.5	43.5	33.5	5.0	30.0	30.0	/	/	/	Φ1.2	Φ1.6	2
PFC173136D-222K	43.5	43.5	33.5	5.0	30.0	30.0	/	/	/	Φ1.2	Φ1.6	2



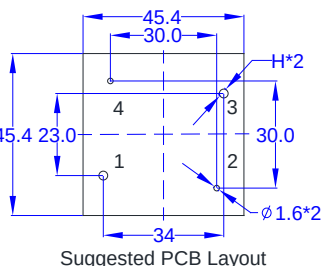
Top View



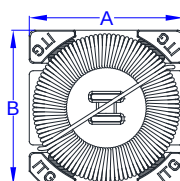
Front View



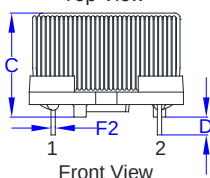
Bottom View



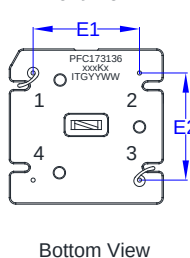
Suggested PCB Layout



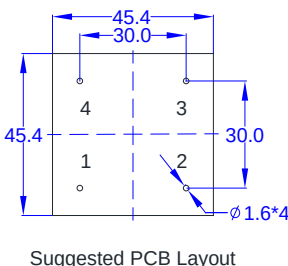
Top View



Front View



Bottom View



Suggested PCB Layout

Part Marking:

PFC173136: Series Name.

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

K is tolerance, x is special code.

YYWW: YYWW is Date Code.

Note: PIN 2 & 4 provided for mounting stability only.

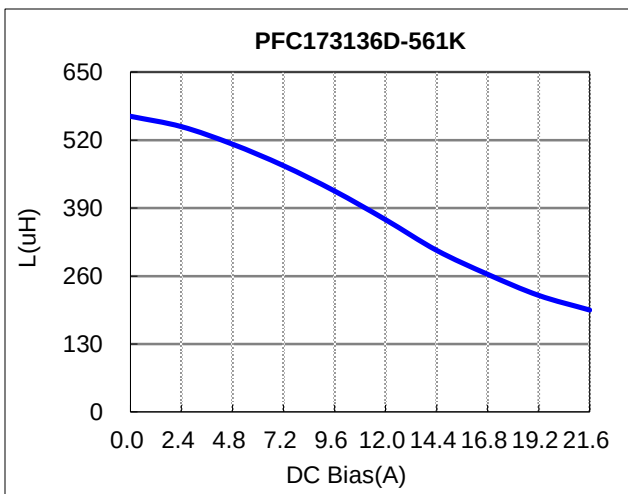
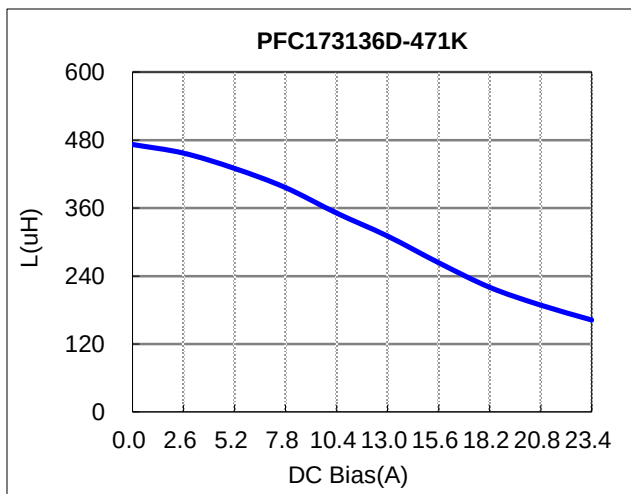
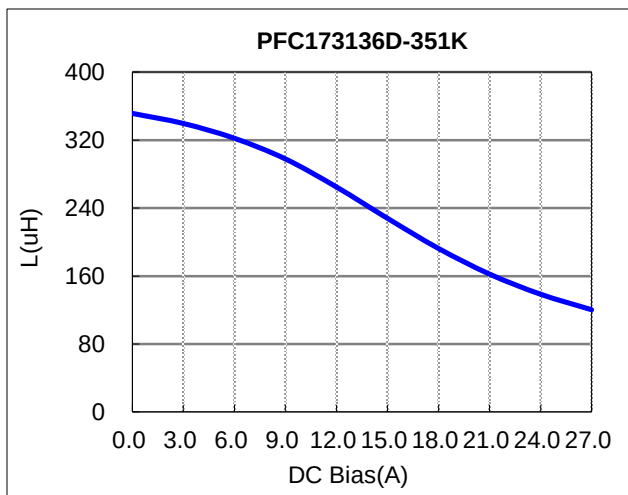
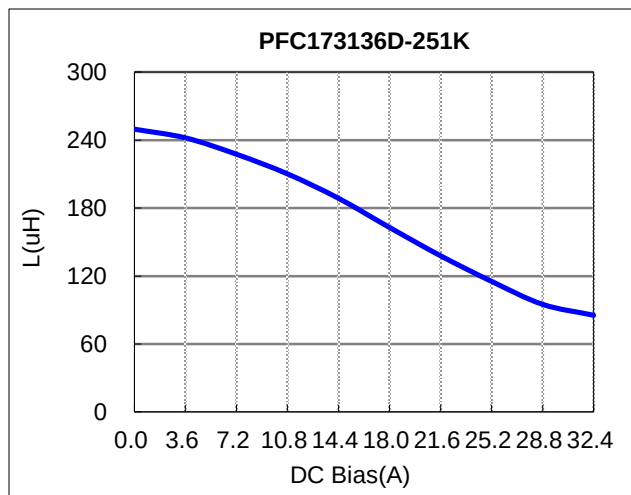
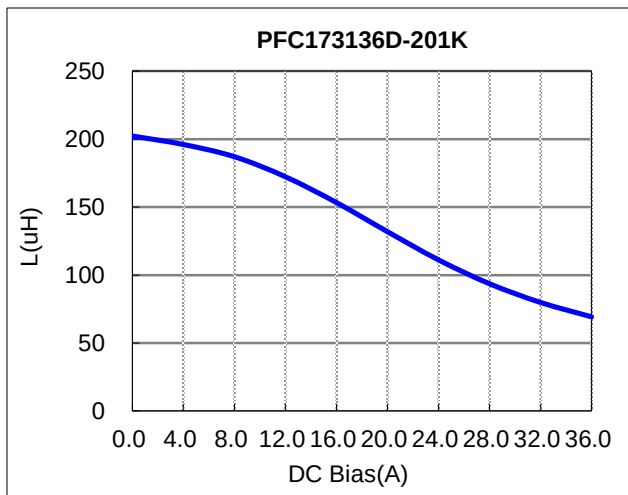
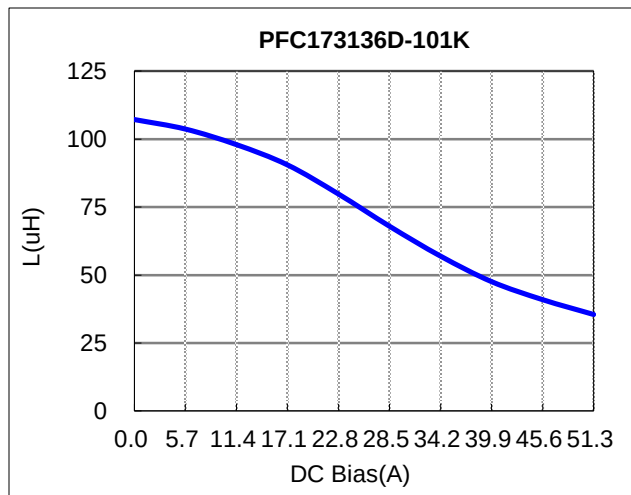
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*Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.

4. Inductance vs. Current Characteristics of PFC173136D Series :



4. Inductance vs. Current Characteristics of PFC173136D Series :

