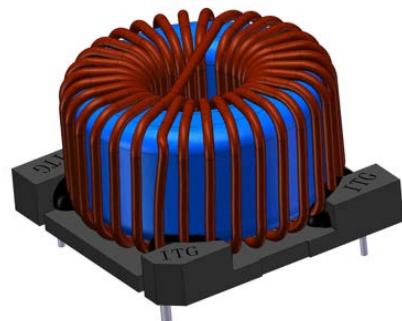


1. Features of PFC219167D Series :

- Alloy powder based DIP Inductor with lower core loss.
- No thermal aging concerns.
- Low leakage magnetic flux.
- Elimination for impulse (EMI) noise.
- Inductance Range: 107.0uH to 2200.0uH, custom values are welcomed.
- High current output chokes, up to 61.0 Amp with approx. 50% roll off.
- Designed and developed for Power Factor Correction applications.
- Foot Print: 55.5x55.5mm max., 42.5 max. Height.
- Surge Voltage: 400VDC.
- Operating Temperature Range: -55°C to + 130°C.
- RoHs & HF compliant.



2. Electrical Characteristics of PFC219167D Series:

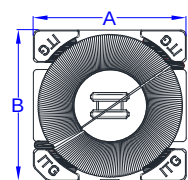
ITG Part Number	OCL ¹ (uH) ± 10%	DCR (mΩ) Max.	Isat1 ² (A) @25°C	L@Isat1 ² (uH) Min.	Isat2 ² (A) @25°C	L@Isat2 ² (uH) Min.	Isat3 ² (A) @25°C	L@Isat3 ² (uH) Min.	Irms ³ (A) @25°C
PFC219167D-101K	107.0	12.5	31.1	79.2	40.2	67.9	61.0	47.0	28.7
PFC219167D-201K	203.0	20.5	22.6	149.8	29.2	128.5	44.4	88.9	22.3
PFC219167D-251K	256.0	27.0	20.2	188.4	26.1	161.5	39.6	111.8	18.9
PFC219167D-351K	350.0	33.5	17.3	254.4	22.4	218.2	34.0	151.0	16.6
PFC219167D-471K	470.0	43.5	14.9	344.0	19.3	295.0	29.3	204.2	14.4
PFC219167D-501K	500.0	45.0	14.3	372.1	18.5	319.1	28.1	220.9	14.2
PFC219167D-681K	680.0	59.0	12.4	495.4	16.1	424.8	24.4	294.1	12.3
PFC219167D-821K	820.0	74.0	11.3	599.5	14.6	514.0	22.2	355.9	11.0
PFC219167D-102K	1000.0	96.0	10.2	733.4	13.2	628.9	20.0	435.4	9.7
PFC219167D-122K	1200.0	108.0	9.0	880.8	11.7	755.3	17.8	523.0	9.0
PFC219167D-152K	1500.0	138.0	8.0	1114.8	10.4	955.9	15.8	661.9	7.9
PFC219167D-222K	2200.0	170.0	6.6	1605.3	8.7	1376.5	13.2	953.1	7.1

Notes:

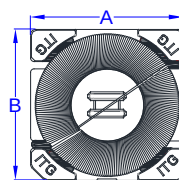
1. Open Circuit Inductance (OCL ≤1000.0uH) and L@Isat are measured at 100KHz, 0.25V@ 25°C.
Open Circuit Inductance (OCL >1000.0uH) and L@Isat are measured at 10KHz, 0.25V@ 25°C.
2. Isat1: DC current that causes inductance to drop 20%(Typ.) from OCL (Ta=25°C).
Isat2: DC current that causes inductance 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 PFC219167D Series (Unit:mm):

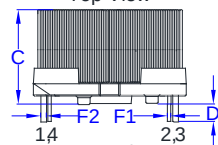
ITG Part Number	Dim. A (mm) Max.	Dim. B (mm) Max.	Dim. C (mm) Max.	Dim. D (mm) ±1.0	Dim. E1 (mm) ±0.4	Dim. E2 (mm) ±0.4	Dim. E3 (mm) ±0.6	Dim. E4 (mm) ±0.6	Dim. F1 (mm) ±0.1	Dim. F2 (mm) ±0.1	H (mm) Ref.	Fig.
PFC219167D-101K	55.5	55.5	41.0	5.0	42.0	42.0	44.0	35.0	Φ1.2	Φ2.2	Φ2.8	1
PFC219167D-201K	55.5	55.5	42.5	5.0	42.0	42.0	44.0	35.0	Φ1.2	Φ2.0	Φ2.6	1
PFC219167D-251K	55.5	55.5	41.5	5.0	42.0	42.0	44.0	35.0	Φ1.2	Φ1.8	Φ2.4	1
PFC219167D-351K	55.5	55.5	39.5	5.0	42.0	42.0	44.0	35.0	Φ1.2	Φ1.7	Φ2.3	1
PFC219167D-471K	53.9	53.9	39.5	5.0	42.0	42.0	44.0	35.0	Φ1.2	Φ1.6	Φ2.2	2
PFC219167D-501K	53.9	53.9	39.5	5.0	42.0	42.0	44.0	35.0	Φ1.2	Φ1.6	Φ2.2	2
PFC219167D-681K	53.9	53.9	39.5	5.0	42.0	42.0	44.0	35.0	Φ1.2	Φ1.5	Φ2.1	2
PFC219167D-821K	53.9	53.9	39.5	5.0	42.0	42.0	44.0	35.0	Φ1.2	Φ1.4	Φ2.0	2
PFC219167D-102K	53.9	53.9	39.5	5.0	42.0	42.0	44.0	35.0	Φ1.2	Φ1.3	Φ1.9	2
PFC219167D-122K	53.9	53.9	40.0	5.0	42.0	42.0	44.0	35.0	Φ1.2	Φ1.3	Φ1.9	2
PFC219167D-152K	53.9	53.9	40.0	5.0	42.0	42.0	44.0	35.0	Φ1.2	Φ1.2	Φ1.8	2
PFC219167D-222K	53.9	53.9	41.0	5.0	42.0	42.0	44.0	35.0	Φ1.2	Φ1.2	Φ1.8	2



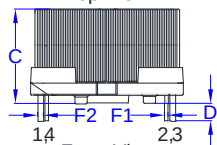
Top View



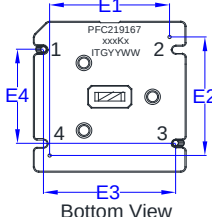
Top View



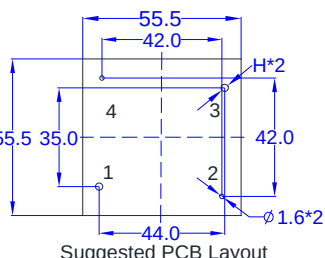
Front View



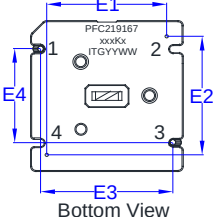
Front View



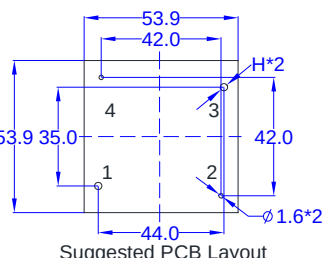
Bottom View



Suggested PCB Layout



Bottom View



Suggested PCB Layout

Part Marking:

PFC219167: 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.

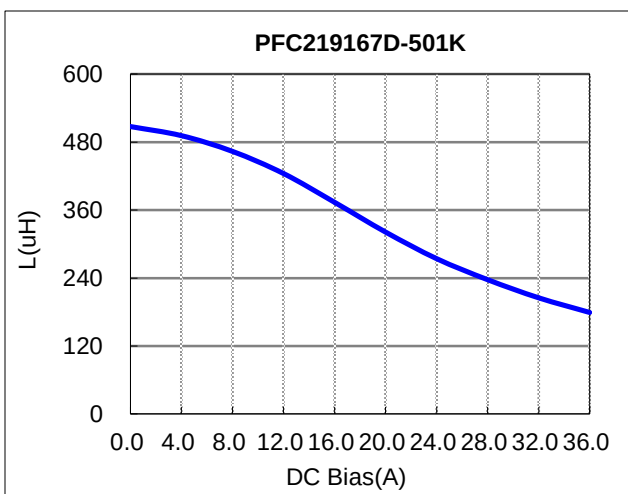
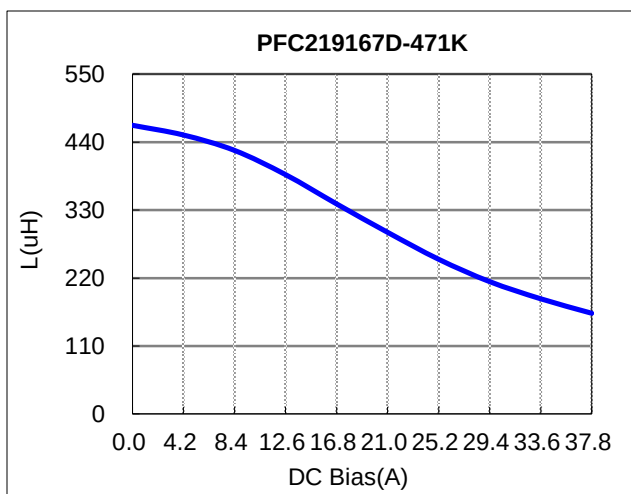
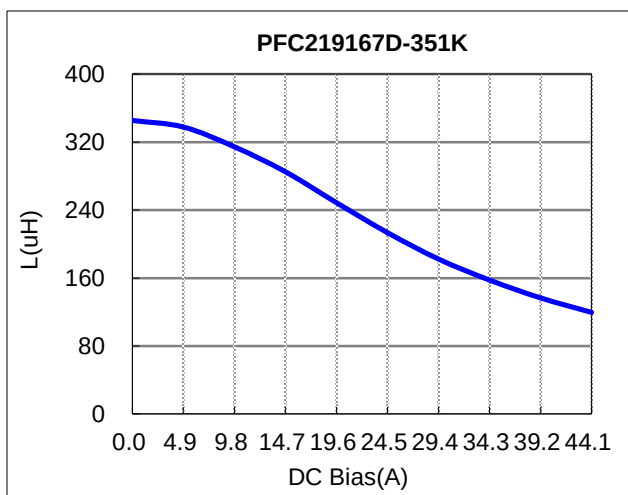
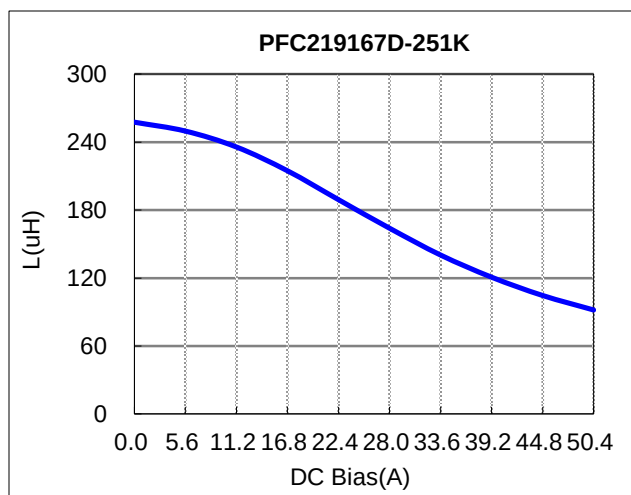
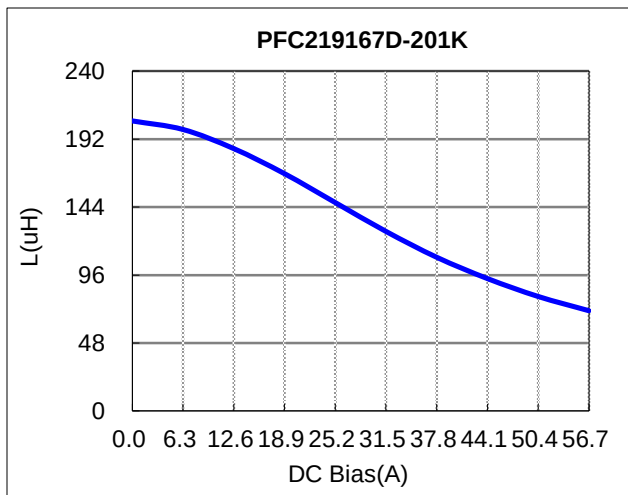
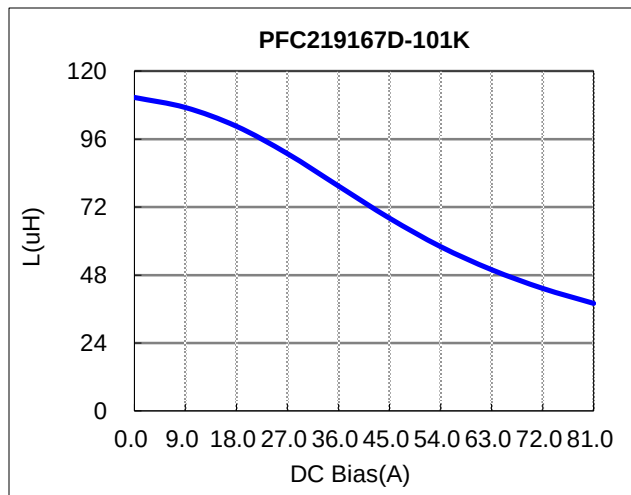
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*Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.

4. Inductance vs. Current Characteristics of PFC219167D Series :



4. Inductance vs. Current Characteristics of PFC219167D Series :

