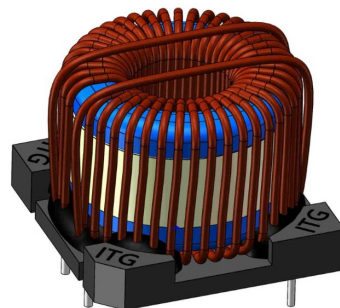


1. Features of PFC183213D Series :

- Alloy powder based DIP Inductor with lower core loss.
- No thermal aging concerns.
- Low leakage magnetic flux.
- Elimination for impulse (EMI) noise.
- Inductance Range: 210.0uH to 500.0uH, 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: 46.5x46.5mm max., 54.0 max. Height.
- Surge Voltage: 400VDC.
- Operating Temperature Range: -55°C to + 130°C.
- RoHs & HF compliant.



2. Electrical Characteristics of PFC183213D Series:

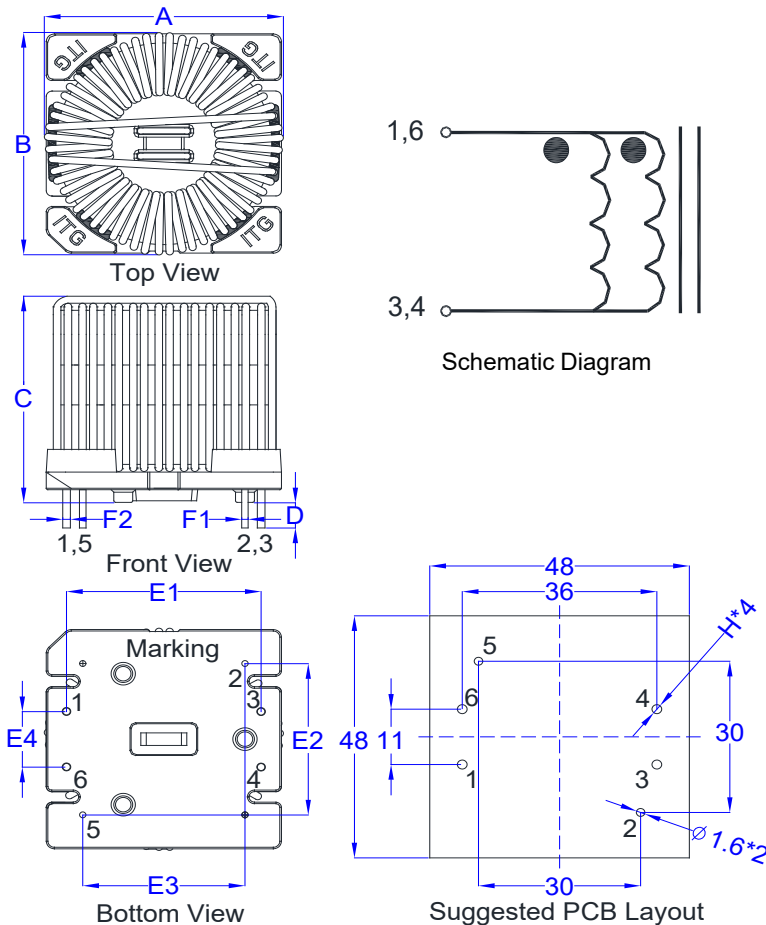
ITG Part Number	OCL ¹ (uH) ± 10%	DCR (mΩ) Max.	Isat1 ² (A) @25°C	L@Isat1 ² (uH) Min.	Isat2 ² (A) @25°C	L@Isat2 ² (uH) Min.	Isat3 ² (A) @25°C	L@Isat3 ² (uH) Min.	Irms ³ (A) @25°C
PFC183213D-211K	210.0	21.5	18.9	153.8	24.4	131.9	37.1	91.3	21.0
PFC183213D-251K	250.0	23.0	17.3	183.1	22.4	157.0	34.0	108.7	20.0
PFC183213D-351K	355.0	30.0	14.5	261.2	18.7	224.0	28.5	155.1	17.0
PFC183213D-501K	500.0	42.0	12.2	367.5	15.8	315.1	24.0	218.2	14.5

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 PFC183213D 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) ±0.4	Dim. E4 (mm) ±0.4	Dim. F1 (mm) ±0.1	Dim. F2 (mm) ±0.1	H (mm) Ref.
PFC183213D-211K	46.5	46.5	54.0	5.0	36.0	30.0	30.0	11.0	Φ1.2	Φ1.5	Φ1.9
PFC183213D-251K	46.5	46.5	54.0	5.0	36.0	30.0	30.0	11.0	Φ1.2	Φ1.5	Φ1.9
PFC183213D-351K	46.5	46.5	54.0	5.0	36.0	30.0	30.0	11.0	Φ1.2	Φ1.4	Φ1.8
PFC183213D-501K	46.5	46.5	54.0	5.0	36.0	30.0	30.0	11.0	Φ1.2	Φ1.3	Φ1.7



Part Marking:

PFC183213: 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:

1. PIN 2 & 5 provided for mounting stability only.

2. PIN 1 & PIN 6 to be connected, PIN 3 & PIN 4 to be connected in parallel on the PC board.

● New York 1 914 347 2474 ● Taipei 886 2 2698 8669 ● Kaohsiung 886 7 350 2275

● Japan 81 568 85 2830 ● Shenzhen 86 755 8418 6263 ● Shanghai 86 21 5424 5141 ● Hong Kong 852 9688 9767

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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 PFC183213D Series :

