



1. Features of PFC383637B Series :

- Alloy powder based DIP Inductor with lower core loss.
- No thermal aging concerns.
- Inductance Range: 185.0uH to 360.0 uH, custom values are welcomed.
- High current output chokes, up to 32.4 Amp with approx. 50% roll off.
- Designed and developed for Power Factor Correction applications.
- Foot Print: 37.5 x 36.5mm max., 36.0mm max. Height.
- Surge Voltage: 400VDC.
- Operating Temperature Range: -55°C to + 150°C.
- RoHs & HF compliant.
- MTBF = 2,083,333,333 hours, FIT = 0.48 (per billions hour) per Telcordia SR-332.



2. Electrical Characteristics of PFC383637B Series:

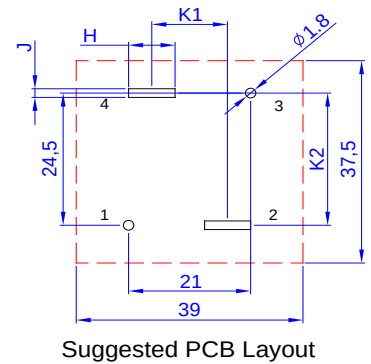
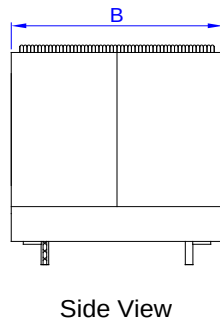
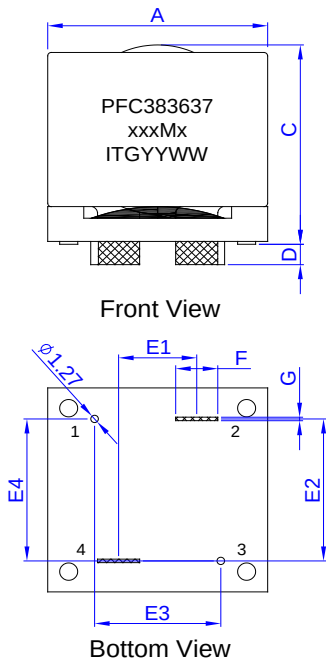
ITG Part Number	OCL ¹ (uH) ± 20%	DCR (mΩ) ± 10% @25°C	Isat1 ² (A) @25°C	L@Isat1 ² (uH) Min.	Isat2 ² (A) @25°C	L@Isat2 ² (uH) Min.	Isat3 ² (A) @25°C	L@Isat3 ² (uH) Min.	Irms ³ (A) @25°C
PFC383637B-181MHF	185.0	11.0	16.7	131.3	21.9	112.6	32.4	78.0	25.2
PFC383637B-231MHF	230.0	14.2	15.0	162.2	19.7	139.0	29.2	96.3	22.2
PFC383637B-361MHF	360.0	22.0	12.0	253.4	15.8	217.3	23.3	150.4	17.8

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 for an approximate temperature rise of 40°C without core loss. Derating is necessary for AC currents. PCB pad layout, trace thickness and width, air-flow and proximity of other heat generating components will affect the temperature rise. It is recommended the part temperature not exceed 150°C under worst case operating conditions as verified in the end application.

3. Mechanical Dimension of PFC383637B Series (Unit: mm):

ITG Part Number	A	B	C	D	E1	E2	E3	E4	F	G	H	J	K1	K2
	Max.	Max.	Max.	±0.50	±0.50	±0.50	±0.50	±0.50	±0.40	Typ.	Typ.	Typ.	Typ.	Typ.
PFC383637B-181MHF	37.50	36.50	36.00	3.50	12.50	24.50	21.00	24.50	7.00	0.60	8.00	1.20	12.50	24.50
PFC383637B-231MHF	37.50	36.50	36.00	3.50	12.50	24.50	21.00	24.50	7.00	0.50	8.00	1.10	12.50	24.50
PFC383637B-361MHF	37.50	36.50	36.00	3.50	12.50	24.50	21.00	24.50	7.00	0.40	8.00	1.00	12.50	24.50



Part Marking:

PFC383637: Series Name.

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

M is tolerance, x is special code.

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

Note: PIN1 & PIN3 provided for mounting stability only.

4. Inductance vs. Current Characteristics of PFC383637B Series :

