



PFC433835B Series



1. Features of PFC433835B Series :

- Alloy powder based DIP Inductor with lower core loss.
- No thermal aging concerns.
- Inductance Range: 90.0 uH to 285.0 uH, custom values are welcomed.
- High current output chokes, up to 50.0 Amp with approx. 50% roll off.
- Designed and developed for Power Factor Correction applications.
- Foot Print: 43.0 x 35.0mm max., 38.0mm 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 PFC433835B 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
PFC433835B-900MHF	90.0	6.0	25.7	65.5	33.8	56.2	50.0	38.9	35.3
PFC433835B-111MHF	115.0	7.7	23.0	82.2	30.2	70.5	44.5	48.8	31.0
PFC433835B-191MHF	190.0	12.0	17.8	135.9	23.4	116.5	34.6	80.7	25.0
PFC433835B-281MHF	285.0	18.2	14.6	203.0	19.2	174.1	28.3	120.5	20.2

Notes:

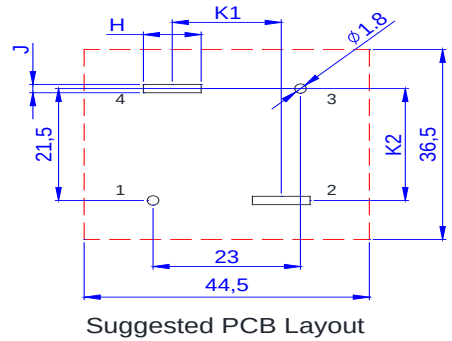
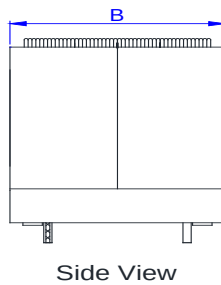
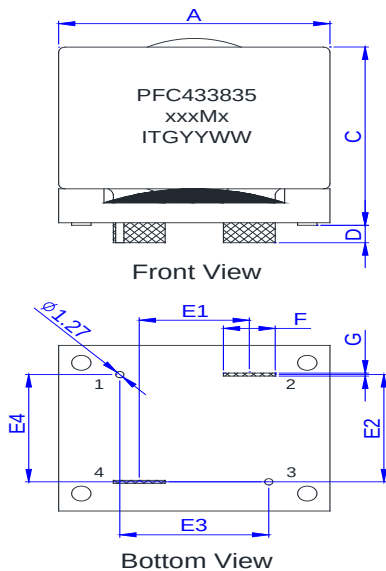
1. Open Circuit Inductance (OCL) and L@Isat are measured at 100KHz, 0.25V@ 25°C.
2. Isat1: DC current that causes inductance to drop 20%(Typ.) from OCL (Ta=25°C).
Isat2: DC current that causes inductance to drop 30%(Typ.) from OCL ;(Ta=25°C).
Isat3: DC current that causes inductance to drop 50%(Typ.) 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.

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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.

3. Mechanical Dimension of PFC433835B 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.
PFC433835B-900MHF	43.00	35.00	38.00	3.50	17.00	21.50	23.00	21.50	8.00	0.70	9.00	1.30	17.00	21.50
PFC433835B-111MHF	43.00	35.00	38.00	3.50	17.00	21.50	23.00	21.50	8.00	0.60	9.00	1.20	17.00	21.50
PFC433835B-191MHF	43.00	35.00	38.00	3.50	17.00	21.50	23.00	21.50	8.00	0.50	9.00	1.10	17.00	21.50
PFC433835B-281MHF	43.00	35.00	38.00	3.50	17.00	21.50	23.00	21.50	8.00	0.40	9.00	1.00	17.00	21.50



Part Marking:

PFC433835: 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 PFC433835B Series :

