

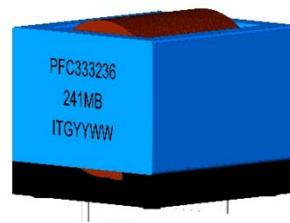


PFC333236B Series



1. Features of PFC333236B Series :

- Alloy powder based DIP Inductor with lower core loss.
- No thermal aging concerns.
- Inductance Range: 240.0 uH to 360.0 uH, custom values are welcomed.
- High current output chokes, up to 27.3 Amp with approx. 50% roll off.
- Designed and developed for Power Factor Correction applications.
- Foot Print: 33.0 x 36.0mm max., 31.6mm 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 PFC333236B 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
PFC333236B-241MHF	240.0	16.5	14.6	169.2	18.7	145.1	27.3	100.4	18.5
PFC333236B-361MHF	360.0	25.0	11.8	257.0	15.1	220.4	22.1	152.6	15.0

Notes:

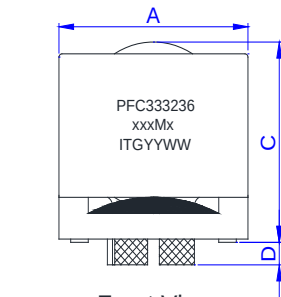
1. Open Circuit Inductance (OCL) and L@Isat are measured at 100KHz, 0.25V@ 25°C.
2. Isat1: DC current that causes inductance to drop 20%(Typ.) from OCL (Ta=25°C).
Isat2: DC current that causes inductance to drop 30%(Typ.) from OCL ;(Ta=25°C).
Isat3: DC current that causes inductance to drop 50%(Typ.) 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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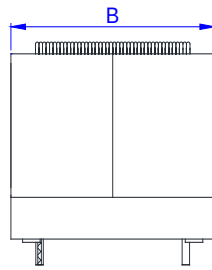
*Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.

3. Mechanical Dimension of PFC333236B Series (Unit: mm):

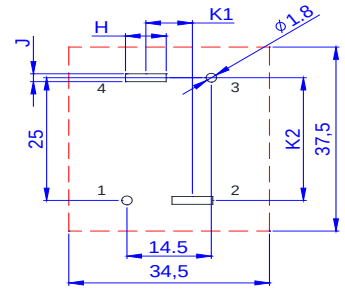
ITG Part Number	A	B	C	D	E1	E2	E3	E4	F	G	H	J	K1	K2
	Max.	Max.	Max.	±0.50	±0.50	±0.50	±0.50	±0.50	±0.20	Typ.	Typ.	Typ.	Typ.	Typ.
PFC333236B-241MHF	33.00	36.00	31.60	3.50	8.00	25.00	14.50	25.00	6.00	0.50	7.00	1.10	8.00	25.00
PFC333236B-361MHF	33.00	36.00	31.60	3.50	8.00	25.00	14.50	25.00	6.00	0.40	7.00	1.00	8.00	25.00



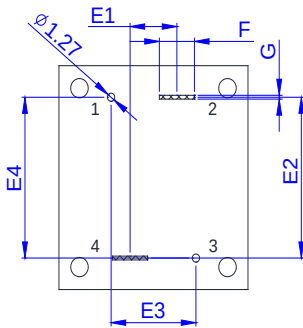
Front View



Side View



Suggested PCB Layout



Bottom View

Part Marking:

PFC333236: 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 PFC333236B Series :

