

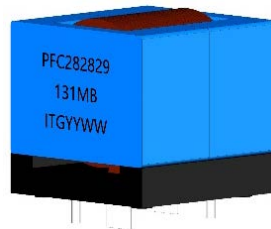


PFC282829B Series



1. Features of PFC282829B Series :

- Alloy powder based DIP Inductor with lower core loss.
- No thermal aging concerns.
- Inductance Range: 115.0 uH to 700.0 uH, custom values are welcomed.
- High current output chokes, up to 28.0 Amp with approx. 50% roll off.
- Designed and developed for Power Factor Correction applications.
- Foot Print 27.5 x 28.5mm max., 28.0mm 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 PFC282829B 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
PFC282829B-111MHF	115.0	11.9	14.1	83.6	18.1	71.7	28.0	49.6	16.5
PFC282829B-131MHF	135.0	14.0	13.2	95.1	16.9	81.6	26.3	56.5	15.0
PFC282829B-211MHF	210.0	21.6	10.5	148.6	13.5	127.5	21.0	88.2	12.0
PFC282829B-341MHF	340.0	36.6	8.3	241.7	10.6	207.2	16.5	143.5	10.0
PFC282829B-701MHF	700.0	86.0	5.8	495.2	7.4	424.6	11.5	294.0	6.0

Notes:

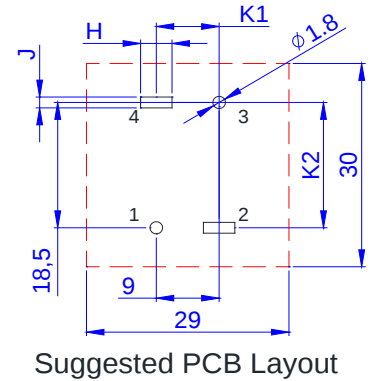
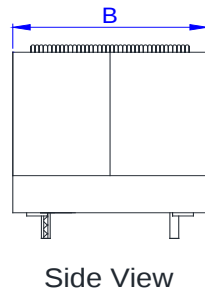
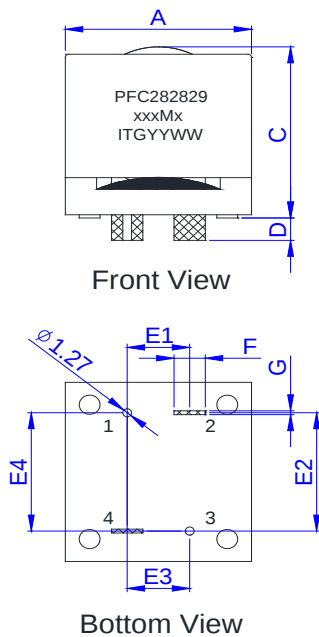
1. Open Circuit Inductance (OCL) and L@Isat are measured at 100KHz, 0.25V@ 25°C.
2. Isat1: DC current that causes inductance to drop 20%(Typ.) from OCL (Ta=25°C).
Isat2: DC current that causes inductance to drop 30%(Typ.) from OCL ;(Ta=25°C).
Isat3: DC current that causes inductance to drop 50%(Typ.) 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 PFC282829B Series (Unit: mm):

ITG Part Number	A	B	C	D	E1/E3	E2	E4	F	G	H	J	K1	K2
	Max.	Max.	Max.	±0.50	±0.50	±0.50	±0.50	±0.40	Typ.	Typ.	Typ.	Typ.	Typ.
PFC282829B-111MHF	27.50	28.50	28.00	3.50	9.00	18.50	18.50	4.50	0.55	5.50	1.05	9.00	18.50
PFC282829B-131MHF	27.50	28.50	28.00	3.50	9.00	18.50	18.50	4.50	0.50	5.50	1.10	9.00	18.50
PFC282829B-211MHF	27.50	28.50	28.00	3.50	9.00	18.50	18.50	4.50	0.40	5.50	1.00	9.00	18.50
PFC282829B-341MHF	27.50	28.50	28.00	3.50	9.00	18.50	18.50	4.50	0.30	5.50	0.90	9.00	18.50
PFC282829B-701MHF	27.50	28.50	28.00	3.50	9.00	18.50	18.50	4.00	0.20	5.00	0.80	9.00	18.50



Part Marking:

PFC282829: 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: PIN3 & PIN4 provided for mounting stability only.

4. Inductance vs. Current Characteristics of PFC282829B Series :

