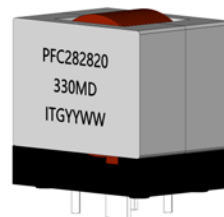




1. Features of PFC282820D Series :

- Alloy powder based DIP Inductor with lower core loss.
- No thermal aging concerns.
- Inductance Range: 33.0 uH to 330.0 uH, custom values are welcomed.
- High current output chokes, up to 45.7 Amp with approx. 50% roll off.
- Designed and developed for Power Factor Correction applications.
- Foot Print: 27.5 x 20.0mm 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 PFC282820D Series:

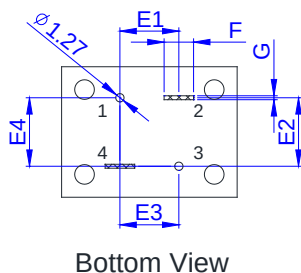
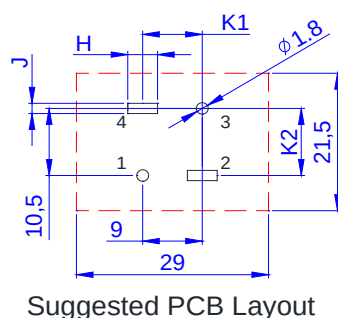
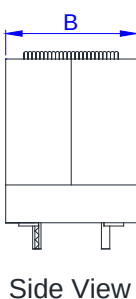
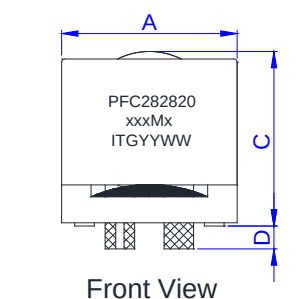
ITG Part Number	OCL ¹ (uH) ± 20%	DCR (mΩ) ± 10% @25°C	Isat1 ² (A) @25°C	L@Isat1 ² (uH) Min.	Isat2 ² (A) @25°C	L@Isat2 ² (uH) Min.	Isat3 ² (A) @25°C	L@Isat3 ² (uH) Min.	Irms ³ (A) @25°C
PFC282820D-330MHF	33.0	4.5	22.2	23.8	29.7	20.4	45.7	14.1	26.0
PFC282820D-500MHF	50.0	6.8	18.3	35.1	24.4	30.1	37.7	20.8	21.0
PFC282820D-900MHF	90.0	12.5	13.5	64.4	18.0	55.2	27.8	38.2	15.5
PFC282820D-121MHF	125.0	16.7	11.5	88.7	15.4	76.1	23.7	52.7	13.5
PFC282820D-161MHF	165.0	22.3	10.0	117.0	13.4	100.3	20.6	69.4	11.7
PFC282820D-221MHF	220.0	31.0	8.6	157.8	11.5	135.3	17.8	93.7	10.0
PFC282820D-331MHF	330.0	51.6	7.0	235.7	9.4	202.1	14.5	140.0	7.7

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 PFC282820D 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.
PFC282820D-330MHF	27.50	20.00	28.00	3.50	9.00	10.50	10.50	4.50	0.70	5.50	1.30	9.00	10.50
PFC282820D-500MHF	27.50	20.00	28.00	3.50	9.00	10.50	10.50	4.50	0.55	5.50	1.15	9.00	10.50
PFC282820D-900MHF	27.50	20.00	28.00	3.50	9.00	10.50	10.50	4.50	0.40	5.50	1.00	9.00	10.50
PFC282820D-121MHF	27.50	20.00	28.00	3.50	9.00	10.50	10.50	4.50	0.35	5.50	0.95	9.00	10.50
PFC282820D-161MHF	27.50	20.00	28.00	3.50	9.00	10.50	10.50	4.50	0.30	5.50	0.90	9.00	10.50
PFC282820D-221MHF	27.50	20.00	28.00	3.50	9.00	10.50	10.50	4.50	0.25	5.50	0.85	9.00	10.50
PFC282820D-331MHF	27.50	20.00	28.00	3.50	9.00	10.50	10.50	4.00	0.20	5.00	0.80	9.00	10.50



Part Marking:

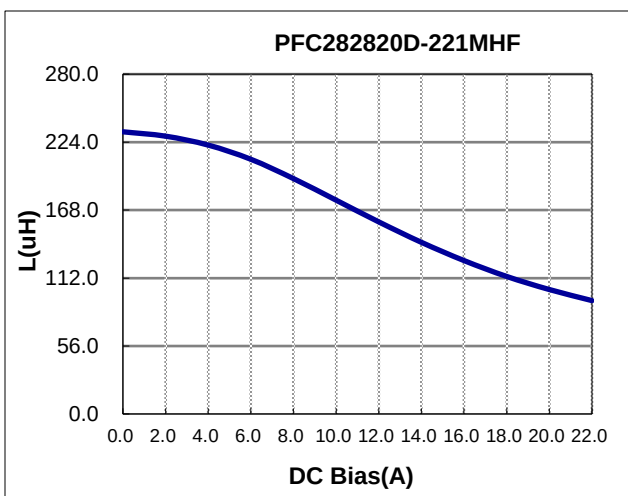
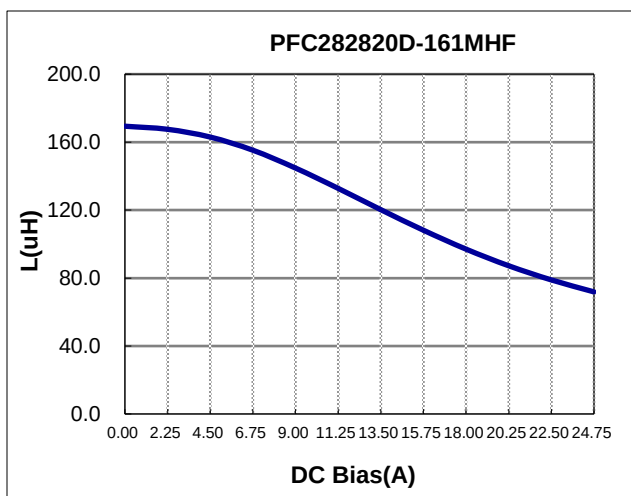
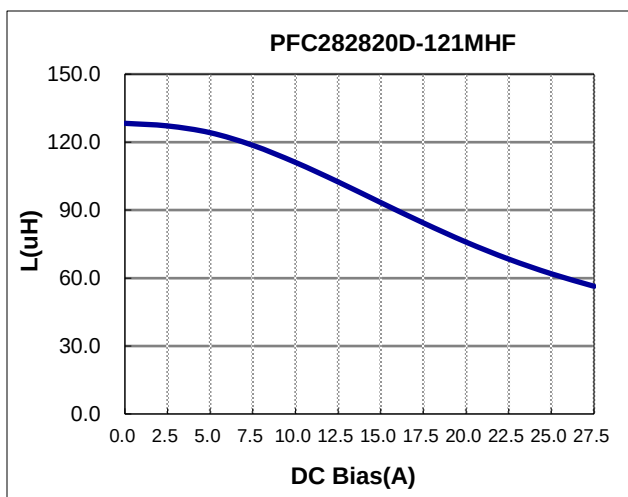
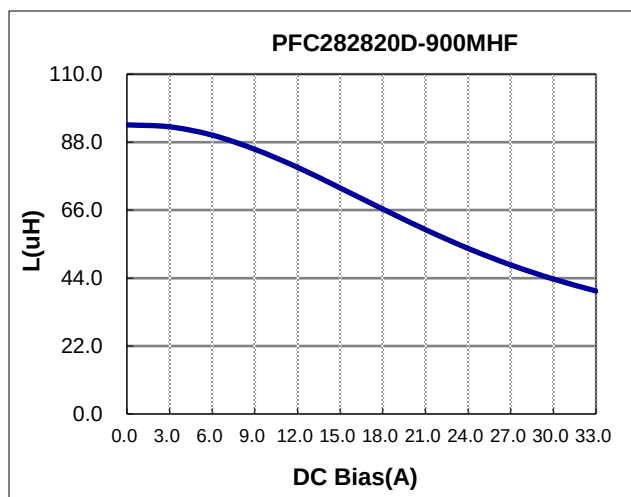
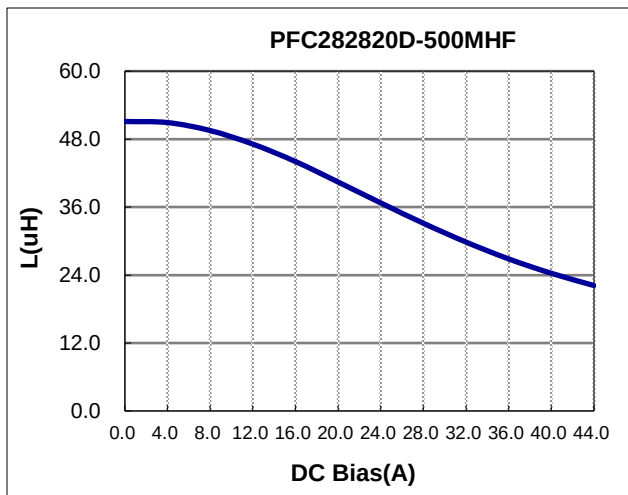
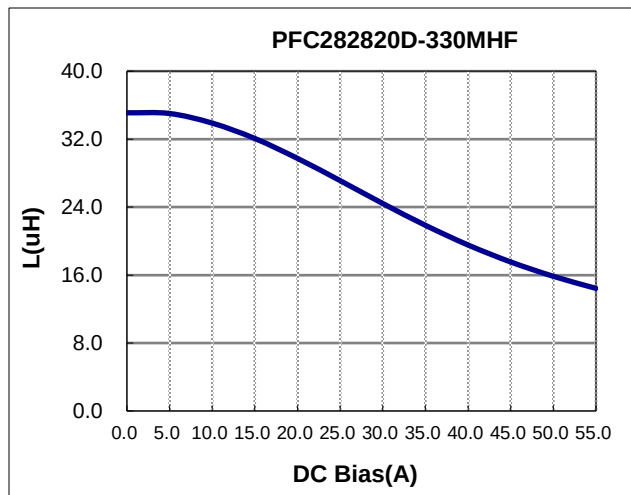
PFC282820: Series Name.

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 PFC282820D Series :



4. Inductance vs. Current Characteristics of PFC282820D Series :

