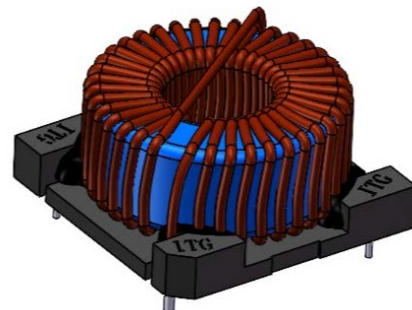


1. Features of PFC212138D Series :

- Alloy powder based DIP Inductor with lower core loss.
- No thermal aging concerns.
- Low leakage magnetic flux.
- Elimination for impulse (EMI) noise.
- Inductance Range: 105.0uH to 1000.0uH, custom values are welcomed.
- High current output chokes, up to 52.3 Amp with approx. 50% roll off.
- Designed and developed for Power Factor Correction applications.
- Foot Print: 53.9×53.9mm max., 35.0 max. Height.
- Surge Voltage: 400VDC.
- Operating Temperature Range: -55°C to + 130°C.
- RoHs & HF compliant.



2. Electrical Characteristics of PFC212138D Series:

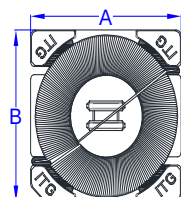
ITG Part Number	OCL ¹ (uH) ± 10%	DCR (mΩ) Max.	Isat1 ² (A) @25°C	L@Isat1 ² (uH) Min.	Isat2 ² (A) @25°C	L@Isat2 ² (uH) Min.	Isat3 ² (A) @25°C	L@Isat3 ² (uH) Min.	Irms ³ (A) @25°C
PFC212138D-101K	105.0	14.5	26.7	77.8	34.5	66.7	52.3	46.2	24.3
PFC212138D-201K	205.0	20.5	19.1	151.1	24.7	129.5	37.5	89.7	21.0
PFC212138D-251K	250.0	26.5	17.3	183.7	22.4	157.5	34.0	109.0	17.6
PFC212138D-351K	350.0	40.0	14.6	258.4	18.9	221.6	28.7	153.4	13.7
PFC212138D-471K	470.0	54.5	12.6	345.8	16.3	296.5	24.8	205.3	11.7
PFC212138D-501K	500.0	57.0	12.2	369.7	15.8	317.0	24.0	219.5	11.5
PFC212138D-681K	680.0	74.0	10.5	500.8	13.6	429.4	20.6	297.3	10.0
PFC212138D-821K	820.0	81.0	9.5	604.5	12.3	518.3	18.7	358.9	9.5
PFC212138D-102K	1000.0	106.5	8.6	734.8	11.2	630.1	17.0	436.3	8.3

Notes:

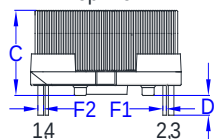
1. Open Circuit Inductance (OCL) and L@Isat are measured at 100KHz, 0.25V@ 25°C.
2. Isat1: DC current that causes inductance to drop 20%(Typ.) from OCL (Ta=25°C).
Isat2: DC current that causes inductance to drop 30%(Typ.) from OCL (Ta=25°C).
Isat3: DC current that causes inductance to drop 50%(Typ.) from OCL (Ta=25°C).
3. Irms: DC current that causes an approximate temperature rise (ΔT) of 40°C (Ta=25°C).

3. Mechanical Dimension of PFC212138D Series (Unit:mm):

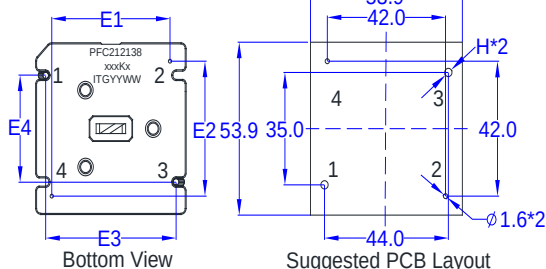
ITG Part Number	Dim. A (mm) ±0.4	Dim. B (mm) ±0.4	Dim. C (mm) Max.	Dim. D (mm) ±1.0	Dim. E1 (mm) ±0.4	Dim. E2 (mm) ±0.4	Dim. E3 (mm) ±0.6	Dim. E4 (mm) ±0.6	Dim. F1 (mm) ±0.1	Dim. F2 (mm) ±0.1	H (mm) Ref.
PFC212138D-101K	53.5	53.5	33.5	5.0	42.0	42.0	44.0	35.0	Φ1.2	Φ2.0	Φ2.6
PFC212138D-201K	53.5	53.5	35.0	5.0	42.0	42.0	44.0	35.0	Φ1.2	Φ2.0	Φ2.6
PFC212138D-251K	53.5	53.5	34.0	5.0	42.0	42.0	44.0	35.0	Φ1.2	Φ1.8	Φ2.4
PFC212138D-351K	53.5	53.5	32.0	5.0	42.0	42.0	44.0	35.0	Φ1.2	Φ1.5	Φ2.1
PFC212138D-471K	53.5	53.5	32.0	5.0	42.0	42.0	44.0	35.0	Φ1.2	Φ1.4	Φ2.0
PFC212138D-501K	53.5	53.5	32.0	5.0	42.0	42.0	44.0	35.0	Φ1.2	Φ1.4	Φ2.0
PFC212138D-681K	53.5	53.5	32.0	5.0	42.0	42.0	44.0	35.0	Φ1.2	Φ1.3	Φ1.9
PFC212138D-821K	53.5	53.5	32.0	5.0	42.0	42.0	44.0	35.0	Φ1.2	Φ1.3	Φ1.9
PFC212138D-102K	53.5	53.5	32.0	5.0	42.0	42.0	44.0	35.0	Φ1.2	Φ1.2	Φ1.8



Top View



Front View



Part Marking:

PFC212138: Series Name.

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

K is tolerance, x is special code.

YYWW: YYWW is Date Code.

Note: PIN 2 & 4 provided for mounting stability only.

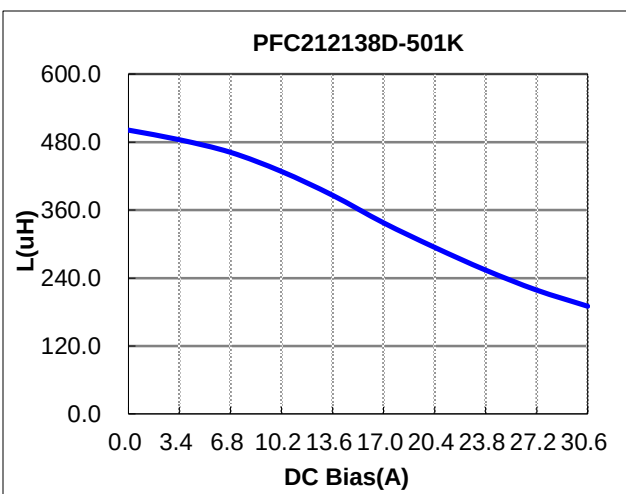
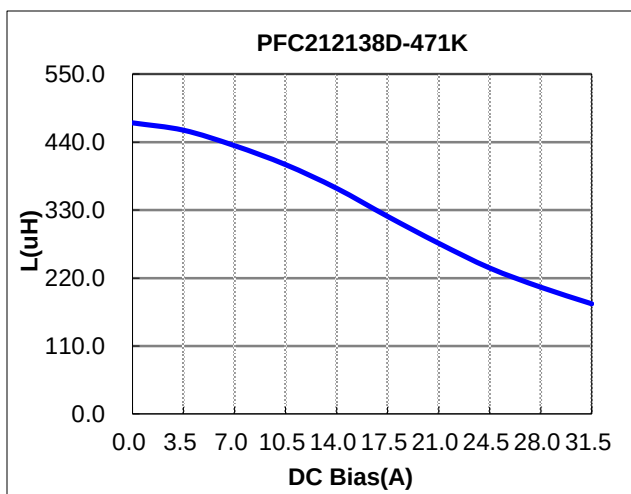
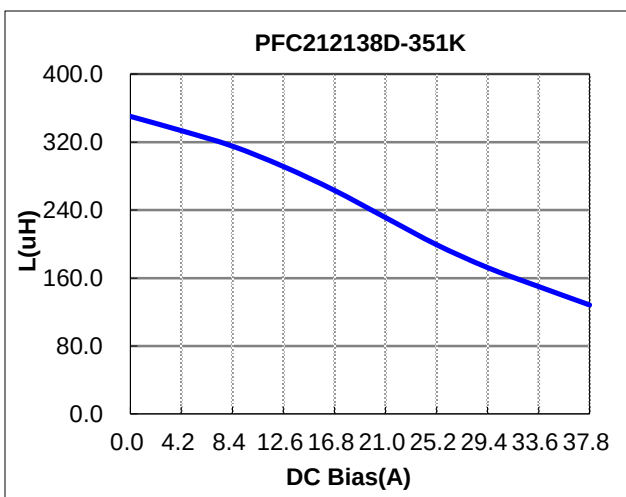
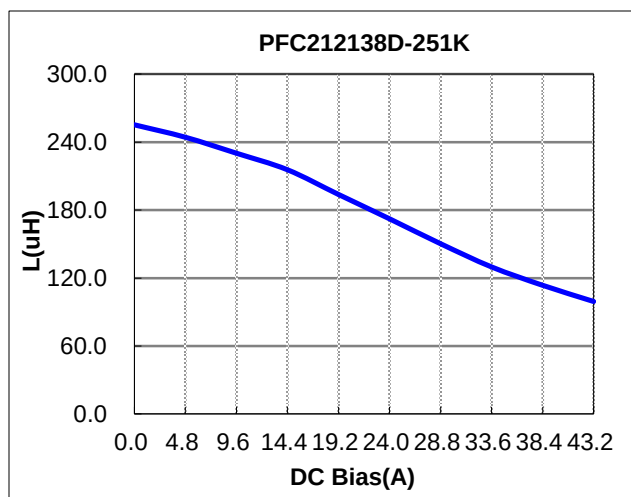
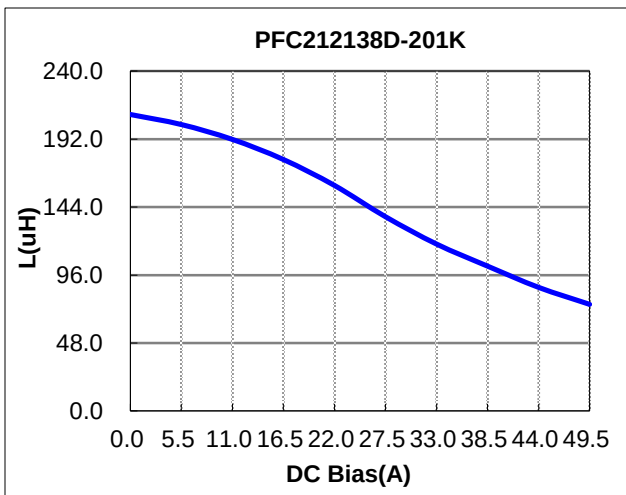
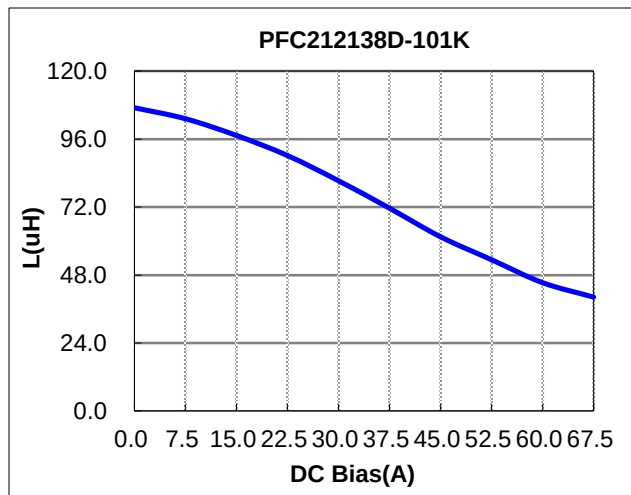
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*Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.

4. Inductance vs. Current Characteristics of PFC212138D Series :



4. Inductance vs. Current Characteristics of PFC212138D Series :

