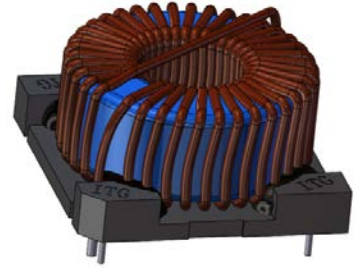




1. Features of PFC212138A Series :

- Alloy core is used to realize lower core loss.
- No thermal aging concerns.
- Low leakage magnetic flux.
- Elimination for impulse (EMI) noise.
- Superior roll off performance for Power Factor Correction Application
- Also can be used as boost inductor in power supplies.
- Inductance Range: 105.0uH to 1000.0uH, custom values are welcomed.
- Foot Print: 53.9x53.9mm max. , 35.0 max. Height.
- Operating Temperature Range: -55°C to + 130°C.
- RoHs & HF compliant.



2. Electrical Characteristics of PFC212138A Series:

ITG Part Number	OCL ¹	DCR	Isat1 ²	L@Isat1 ²	Isat2 ²	L@Isat2 ²	Isat3 ²	L@Isat3 ²	Irms ³	Dim. C	F2	H
	(uH) ± 10%	(mΩ) Max.	(A) @25°C	(uH) Min.	(A) @25°C	(uH) Min.	(A) @25°C	(uH) Min.	(A) @25°C	(mm) Max.	(mm) ± 0.1	(mm) Ref.
PFC212138A-101K	105.0	14.5	28.3	77.8	37.2	66.7	55.5	46.2	24.3	33.5	Φ2.0	Φ2.6
PFC212138A-201K	205.0	20.5	20.3	151.1	26.7	129.5	39.9	89.7	21.0	35.0	Φ2.0	Φ2.6
PFC212138A-251K	250.0	26.5	18.4	183.7	24.2	157.5	36.1	109.0	17.6	34.0	Φ1.8	Φ2.4
PFC212138A-351K	350.0	40.0	15.5	258.4	20.4	221.6	30.5	153.4	13.7	32.0	Φ1.5	Φ2.1
PFC212138A-471K	470.0	54.5	13.4	345.8	17.6	296.5	26.3	205.3	11.7	32.0	Φ1.4	Φ2.0
PFC212138A-501K	500.0	57.0	13.0	369.7	17.1	317.0	25.5	219.5	11.5	32.0	Φ1.4	Φ2.0
PFC212138A-681K	680.0	74.0	11.2	500.8	14.6	429.4	21.9	297.3	10.0	32.0	Φ1.3	Φ1.9
PFC212138A-821K	820.0	81.0	10.1	604.5	13.3	518.3	19.9	358.9	9.5	32.0	Φ1.3	Φ1.9
PFC212138A-102K	1000.0	106.5	9.2	734.8	12.1	630.1	18.0	436.3	8.3	32.0	Φ1.2	Φ1.8

Notes:

1. Open Circuit Inductance (OCL) and L@Isat are measured at 10KHz,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).
4. PIN 2 & 4 provided for mounting stability only.



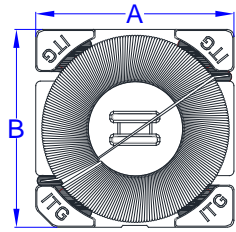
PFC212138A Series



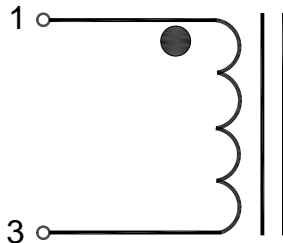
Halogen Free

3. Mechanical Dimension of PFC212138A Series (Unit: mm):

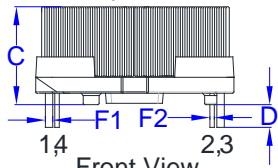
A	B	C	D	E1	E2	E3	E4	F1	F2	H
±0.4	±0.4	Max.	±1.0	±0.4	±0.4	±0.6	±0.6	±0.1	±0.1	Ref.
53.50	53.50	See table above	5.00	42.00	42.00	44.00	35.00	Φ1.20	See table above	See table above



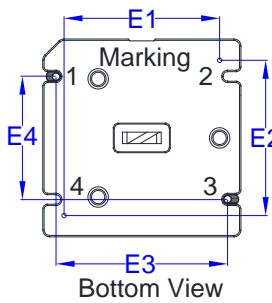
Top View



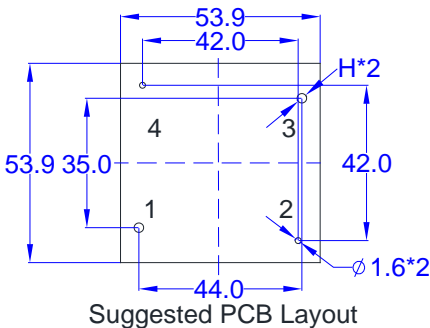
SCHEMATIC DIAGRAM



Front View

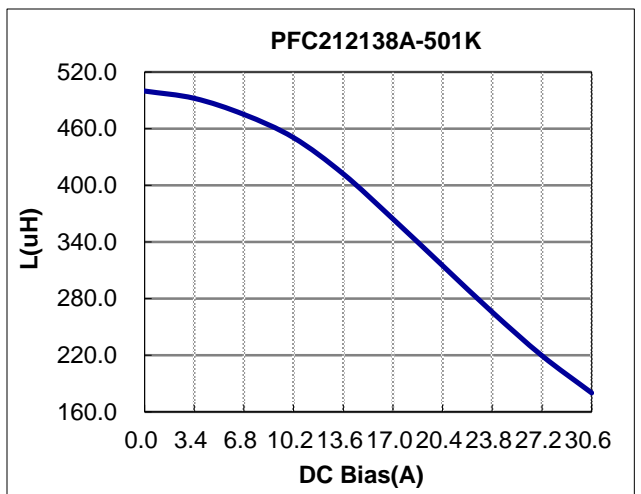
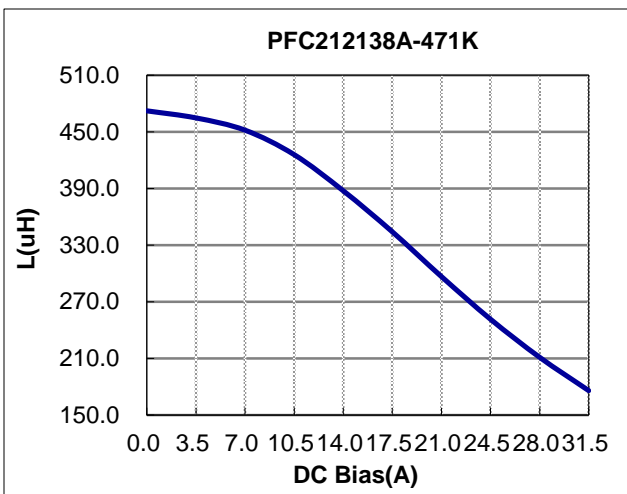
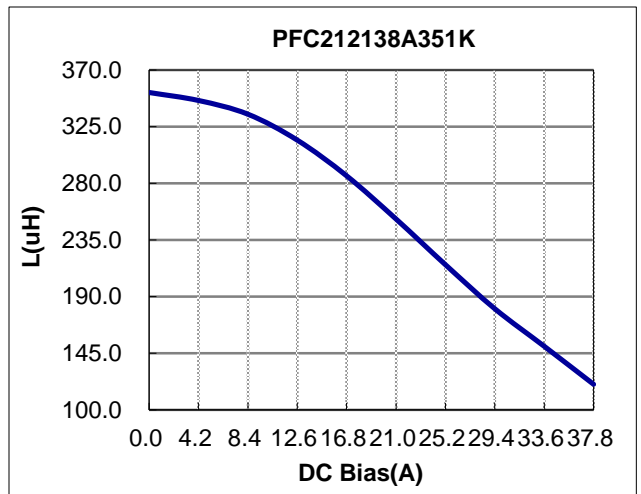
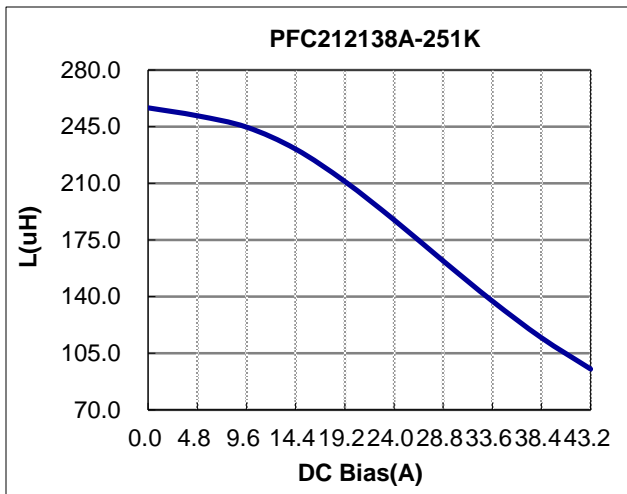
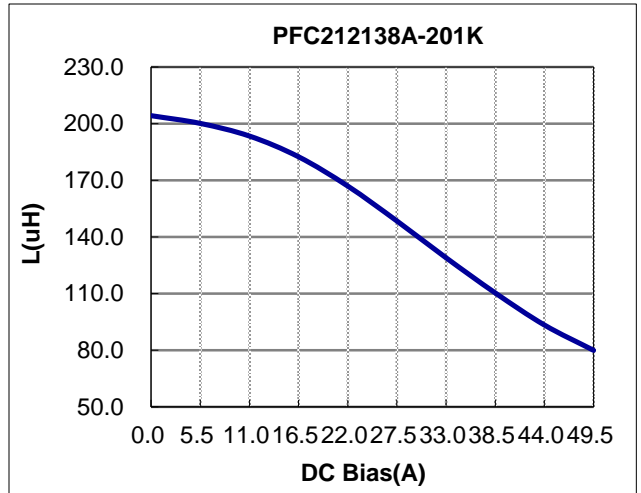
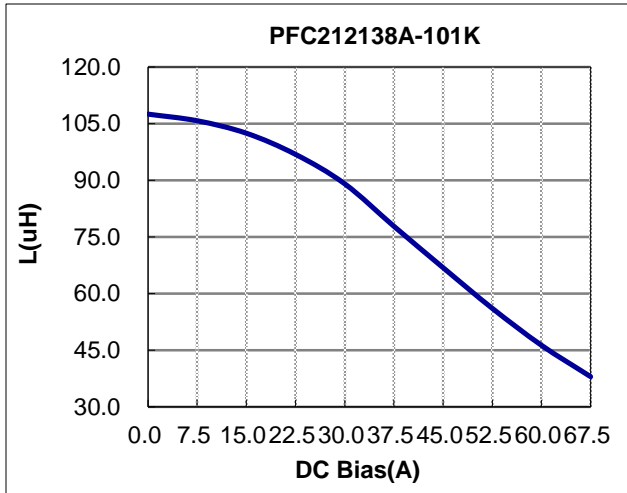


Bottom View



Suggested PCB Layout

4. Inductance vs. Current Characteristics of PFC212138A Series :





Halogen Free

PFC212138A Series



4. Inductance vs. Current Characteristics of PFC212138A Series :

