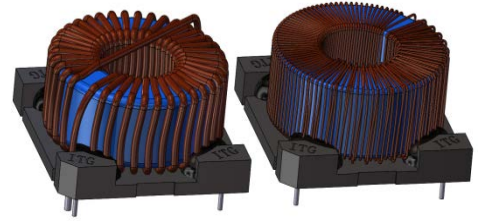




## 1. Features of L301308 Series :

- Alloy core is used to realize lower core loss.
- No thermal aging concerns.
- Low leakage magnetic flux.
- Elimination for impulse (EMI) noise.
- Ideally used as Power Factor Correction choke.
- Also can be used as boost inductor in power supplies.
- Inductance Range: 105.0uH to 7000.0uH, 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 L301308 Series:

ITG Part Number	OCL <sup>1</sup> (uH) ± 10%	DCR (mΩ) Max.	Isat1 <sup>2</sup> (A) @25°C	L@Isat1 <sup>2</sup> (uH) Min.	Isat2 <sup>2</sup> (A) @25°C	L@Isat2 <sup>2</sup> (uH) Min.	Isat3 <sup>2</sup> (A) @25°C	L@Isat3 <sup>2</sup> (uH) Min.	Irms <sup>3</sup> (A) @25°C	Dim. C (mm) Max.	F2 (mm) ± 0.1	H (mm) Ref.	Fig.
L301308-101K	105.0	14.5	11.9	74.0	15.8	64.7	25.0	47.7	24.3	33.5	Φ2.0	Φ2.6	1
L301308-201K	205.0	20.5	8.5	143.5	11.4	125.6	17.9	92.5	21.0	35.0	Φ2.0	Φ2.6	1
L301308-251K	250.0	26.5	7.7	174.5	10.3	152.7	16.3	112.5	17.6	34.0	Φ1.8	Φ2.4	1
L301308-351K	350.0	40.0	6.5	245.5	8.7	214.8	13.7	158.2	13.7	32.0	Φ1.5	Φ2.1	1
L301308-471K	470.0	54.5	5.6	328.5	7.5	287.5	11.8	211.8	11.7	32.0	Φ1.4	Φ2.0	1
L301308-501K	500.0	57.0	5.4	351.2	7.2	307.3	11.4	226.4	11.5	32.0	Φ1.4	Φ2.0	1
L301308-681K	680.0	74.0	4.7	475.8	6.2	416.3	9.8	306.7	10.0	32.0	Φ1.3	Φ1.9	1
L301308-821K	820.0	81.0	4.2	574.2	5.7	502.5	8.9	370.2	9.5	32.0	Φ1.3	Φ1.9	1
L301308-102K	1000.0	106.5	3.8	698.1	5.1	610.8	8.1	450.1	8.3	32.0	Φ1.2	Φ1.8	1
L301308-122K	1220.0	162.0	3.5	851.8	4.6	745.4	7.3	549.2	6.6	32.0	Φ1.2	Φ1.6	2
L301308-182K	1800.0	205.0	2.9	1248.3	3.8	1092.2	6.1	804.8	5.9	32.0	Φ1.2	Φ1.6	2
L301308-222K	2200.0	270.0	2.6	1546.5	3.4	1353.2	5.4	997.1	5.1	32.0	Φ1.2	Φ1.6	2
L301308-332K	3300.0	410.0	2.1	2297.1	2.8	2009.9	4.4	1481.0	4.1	31.0	Φ1.2	Φ1.6	2
L301308-452K	4500.0	636.0	1.8	3126.6	2.4	2735.8	3.8	2015.8	3.3	31.0	Φ1.2	Φ1.6	2
L301308-542K	5400.0	820.0	1.6	3775.6	2.2	3303.7	3.5	2434.3	2.9	30.5	Φ1.2	Φ1.6	2
L301308-702K	7000.0	1100.0	1.4	4906.8	1.9	4293.5	3.0	3163.6	2.5	30.5	Φ1.2	Φ1.6	2

### 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. PIN2 & 4 provided for mounting stability only.

### 3. Mechanical Dimension of L301308 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

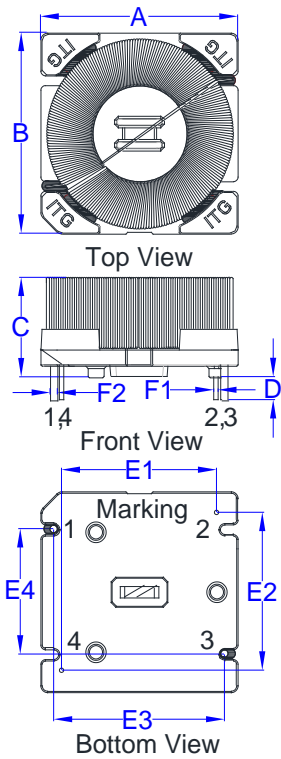


Fig. 1

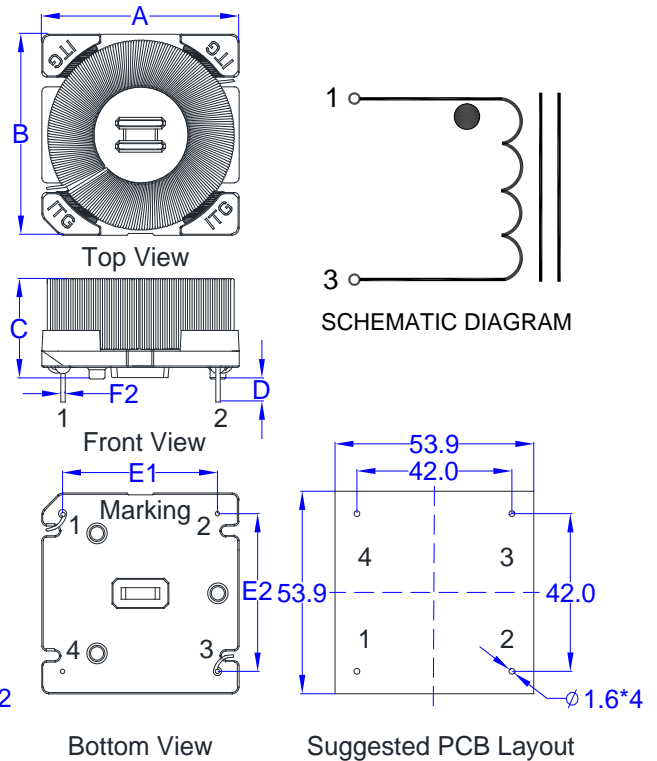
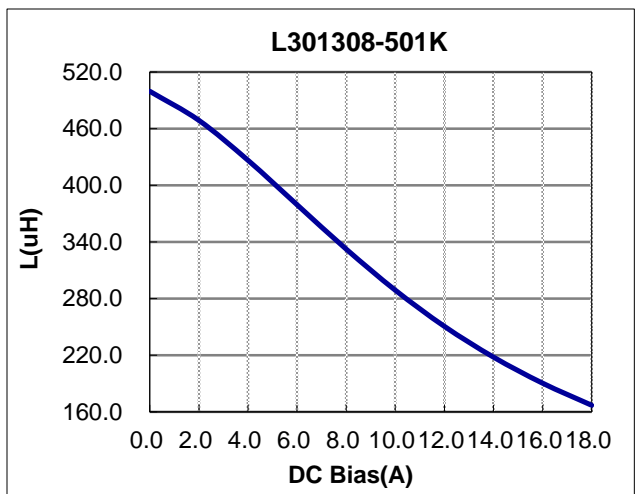
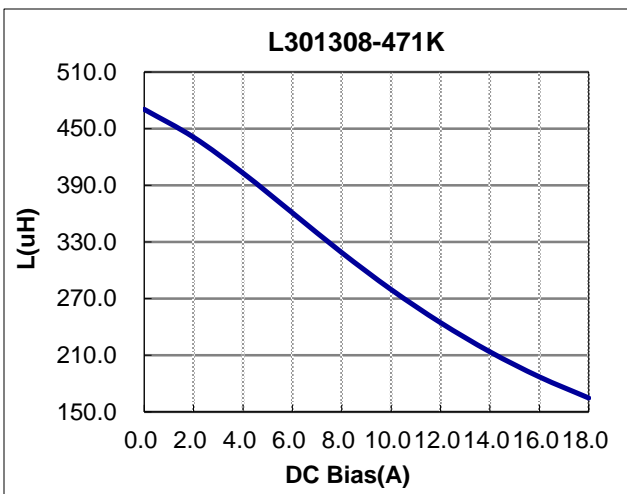
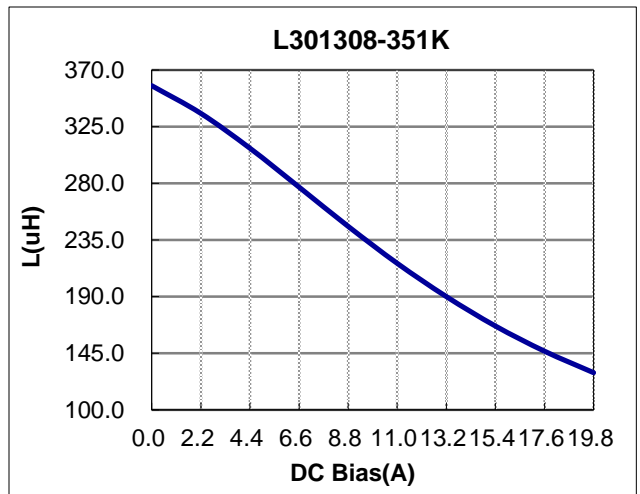
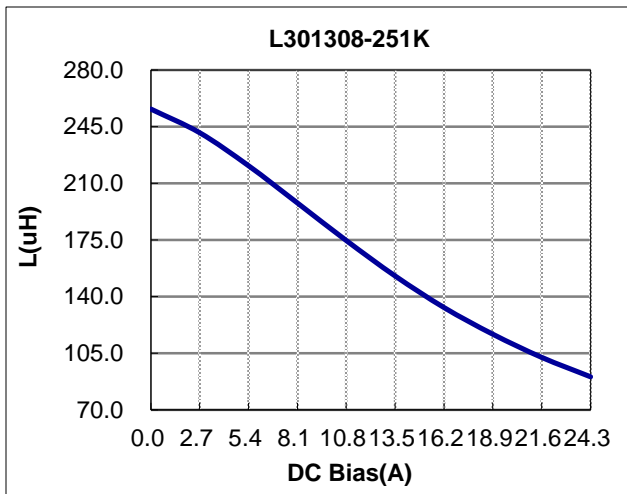
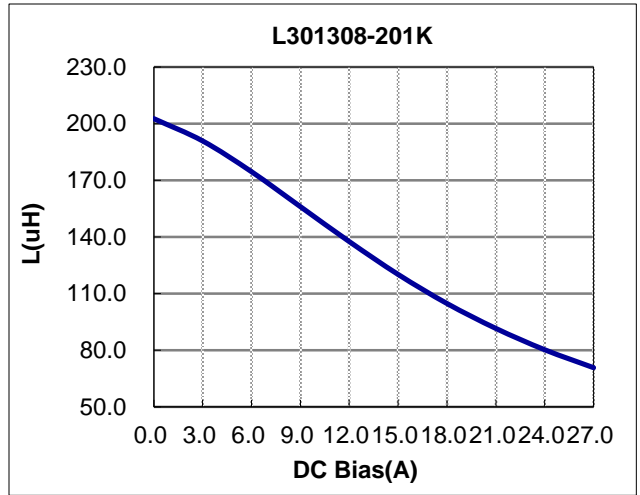
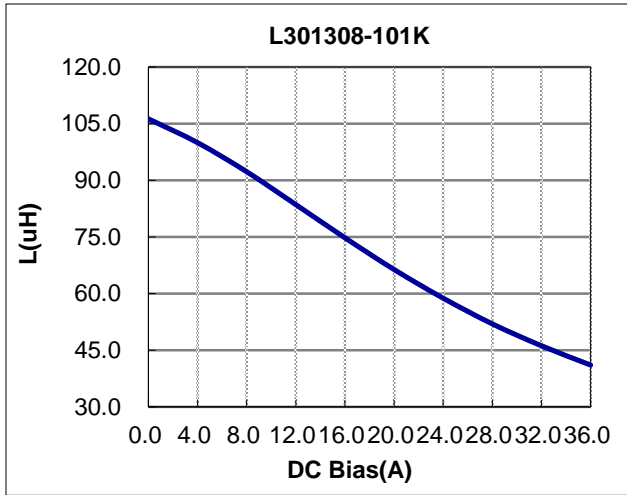


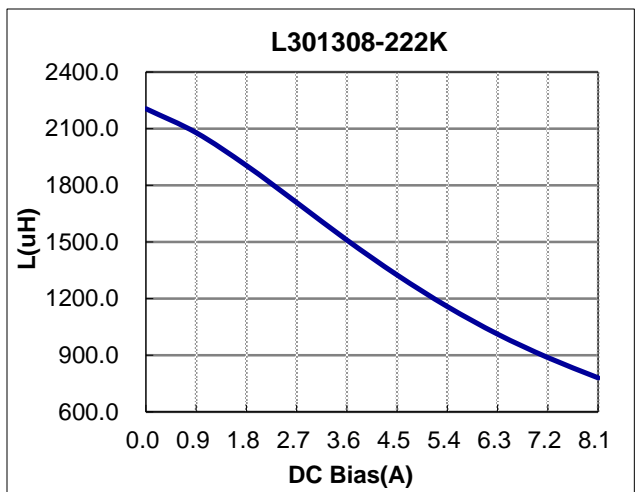
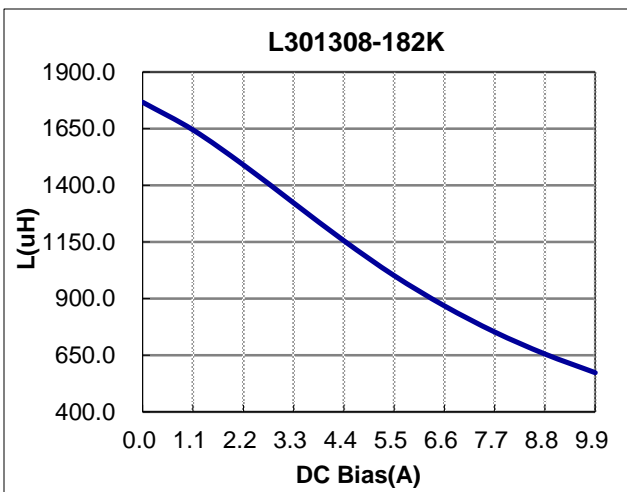
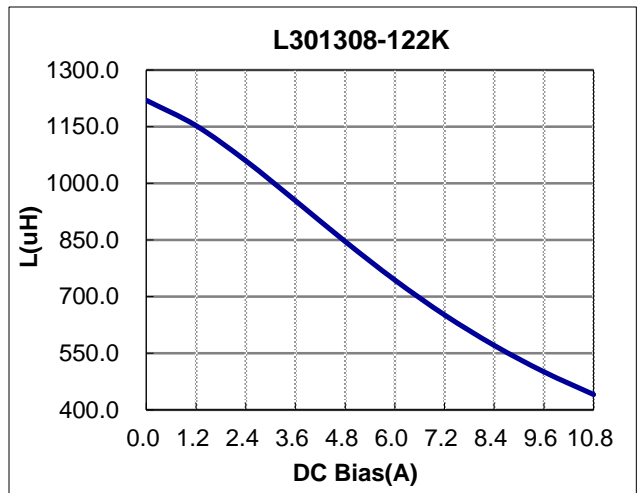
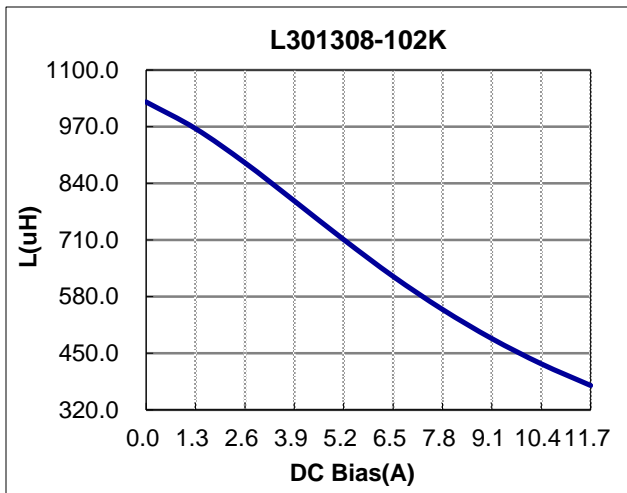
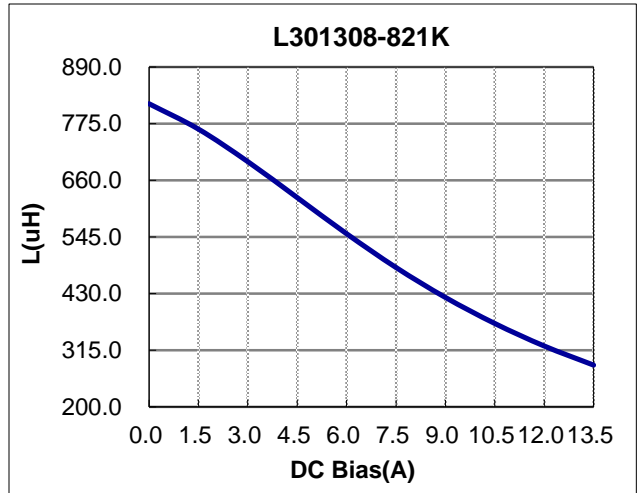
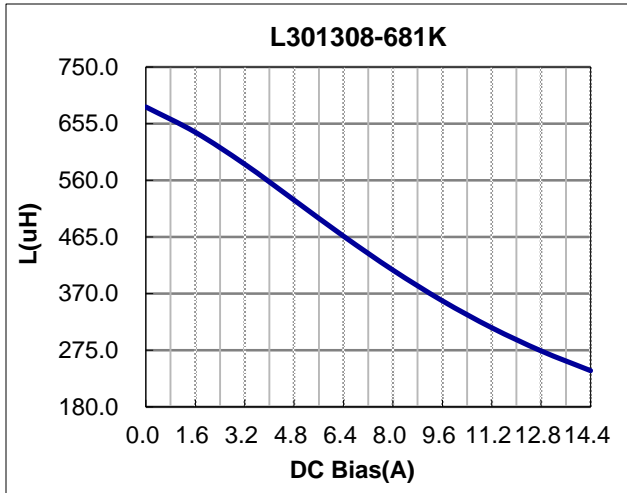
Fig. 2

## 4. Inductance vs. Current Characteristics of L301308 Series :





## 4. Inductance vs. Current Characteristics of L301308 Series :



## 4. Inductance vs. Current Characteristics of L301308 Series

