



Hologen Free

L301307 Series



1. Features of L301307 Series :

- Sendust 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: 1.8mH to 7.0 mH , custom values are welcomed.
- Foot Print 43.9×43.9mm max. , 28.0mm max. Height.
- Operating Temperature Range: -55°C to + 130°C; RoHs & HF compliance.

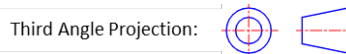
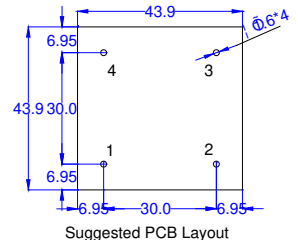
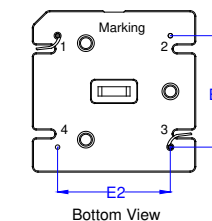
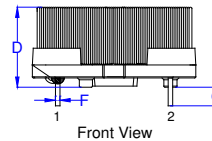
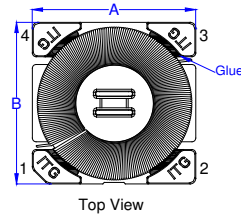


2. Electrical Characteristics of L301307 Series:

ITG Part Number	OCL(PIN1-3) ¹ (mH) ± 10%	DCR (mΩ) Max. @25°C	Isat ² (A) @25°C	L@Isat (mH) @25°C	Irms ³ (A) @25°C	L@Irms (mH) @25°C	Dim. D (mm) Max.
L301307-182K	1.80	125.00	1.50	1.218	4.00	0.484	28.00
L301307-222K	2.20	165.00	1.30	1.502	3.50	0.601	27.00
L301307-332K	3.30	240.00	1.10	2.223	3.00	0.869	26.00
L301307-452K	4.50	350.00	0.92	2.962	2.40	1.246	25.00
L301307-542K	5.40	480.00	0.90	3.476	2.10	1.558	25.00
L301307-702K	7.00	650.00	0.70	4.796	1.80	2.081	25.00

3. Mechanical Dimension of L301307 Series (Unit:mm):

A ±0.4	B ±0.4	C ±1.0	D Max.	E1 ±0.4	E2 ±0.4	F ±0.1
43.50	43.50	5.00	See table above	30.00	30.00	Φ1.20



Notes:

1. Open Circuit Inductance (OCL) and L@Irms and L@Isat are measured at 10KHz,0.25V@ 25°C.
2. Isat: DC current that causes inductance to drop by approximately 35% from OCL (Ta=25°C).
3. Irms: DC current that causes an approximate temperature rise (ΔT) of 40°C (Ta=25°C).

● New York 1 914 347 2474 ● Taipei 886 2 2698 8669 ● Kaohsiung 886 7 350 2275
 ● Japan 81 568 85 2830 ● Shenzhen 86 755 8418 6263 ● Shanghai 86 21 5424 5141 ● Hong Kong 852 9688 9767
 ● sales@ITG-Electronics.com ● www.ITG-Electronics.com Revision A.0: June 13, 2019

*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 vs. Temperature Rise Characteristics of L301307 Series :

