



Hologen Free

L301308 Series



1. Features of L301308 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 53.9×53.9mm max. , 32.0mm max. Height.
- Operating Temperature Range: -55°C to + 130°C; RoHs & HF compliance.

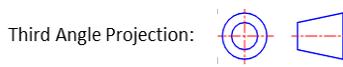
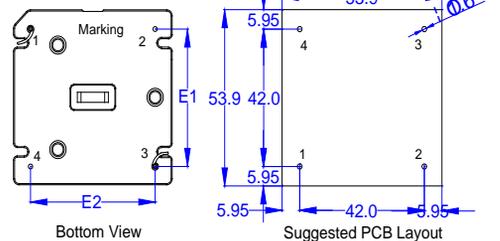
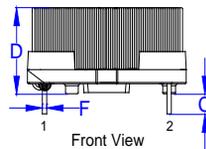
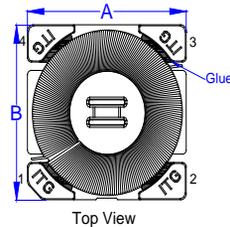


2. Electrical Characteristics of L301308 Series:

| 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. |
|-----------------|---|---------------------------|-----------------------------------|-------------------------|-----------------------------------|-------------------------|------------------------|
| L301308-182K | 1.80 | 205.0 | 4.00 | 1.226 | 4.50 | 1.148 | 32.00 |
| L301308-222K | 2.20 | 270.0 | 3.60 | 1.498 | 4.00 | 1.408 | 32.00 |
| L301308-332K | 3.30 | 410.0 | 3.00 | 2.223 | 3.20 | 2.142 | 31.00 |
| L301308-452K | 4.50 | 636.0 | 2.80 | 2.898 | 2.50 | 3.097 | 31.00 |
| L301308-542K | 5.40 | 820.0 | 2.30 | 3.686 | 2.20 | 3.773 | 30.50 |
| L301308-702K | 7.00 | 1100.0 | 2.20 | 4.698 | 1.90 | 5.061 | 30.50 |

3. Mechanical Dimension of L301308 Series (Unit:mm):

| A | B | C | D | E1 | E2 | F |
|-------|-------|------|-----------------|-------|-------|-------|
| ±0.4 | ±0.4 | ±1.0 | Max. | ±0.4 | ±0.4 | ±0.1 |
| 53.50 | 53.50 | 5.00 | See table above | 42.00 | 42.00 | 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).

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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 vs. Temperature Rise Characteristics of L301308 Series :

