



L301314A Series



Halogen Free

1. Features of L301314A Series :

- Alloy powder 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: 69.63uH to 300 uH , custom values are welcomed.
- Foot Print 29.0×26.0mm max. , 16.5mm max. Height.
- Operating Temperature Range: -55°C to + 130°C; RoHs & HF compliance.

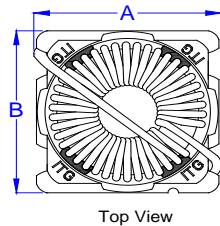


2. Electrical Characteristics of L301314A Series:

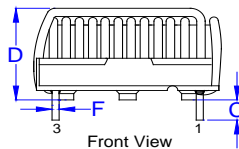
ITG Part Number	OCL (PIN1-2) ¹	DCR (mΩ) Max. @25°C	Isat ² (A) @25°C	L@Isat (uH) @25°C	Irms ³ (A) @25°C	L@Irms (uH) @25°C	Dim. A (mm) Max.	Dim. D (mm) Max.
	(uH) ± 15%							
L301314A-690LHF	69.63	18.50	3.80	47.29	9.50	19.40	29.00	16.50
L301314A-101LHF	100.00	26.00	3.20	68.54	8.00	28.33	29.00	16.50
L301314A-151LHF	150.00	43.00	2.60	102.26	6.00	47.29	28.00	16.00
L301314A-201LHF	200.00	75.00	2.20	137.68	4.50	74.73	28.00	15.50
L301314A-251LHF	250.00	112.00	2.00	169.05	3.60	104.82	27.00	14.50
L301314A-301LHF	300.00	170.00	1.80	205.34	2.90	143.64	27.00	14.50

3. Mechanical Dimension of L301314A Series (Unit:mm):

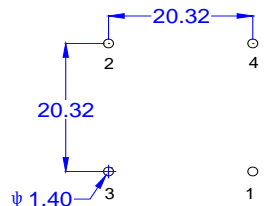
A	B	C	D	E1	E2	F
Max.	± 0.30	± 0.50	Max.	± 0.50	± 0.50	± 0.10
See table above	25.70	3.20	See table above	20.32	20.32	Φ1.00



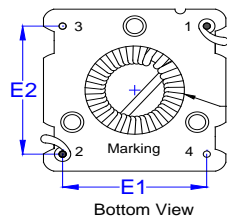
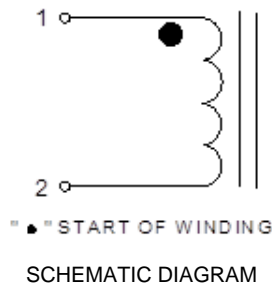
Top View



Front View

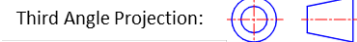


Suggested PCB Layout



Bottom View

The diameter of hole of Base:14.0; ±0.5mm



Third Angle Projection:

Notes:

1. Open Circuit Inductance (OCL) and L@Irms and L@Isat are measured at 100KHz,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 L301314A Series :

