# SMT Power Inductors

*High Current Molded Power Inductor - PA4344.XXXANLT Series*

Pulse Electronics POWER


- ***Height:*** *7.0mm Max*
- ***Footprint:*** *18.3mm x 17.2mm Max*
- ***Current Rating:*** *up to 60.0A*
- ***Inductance Range:*** *0.47uH to 82uH*
- *Shielded construction and compact design*
- *High current, low DCR, and high efficiency*
- *Minimized acoustic noise and minimized leakage flux*

**Electrical Specifications @ 25°C - Operating Temperature -55°C to +155°C**

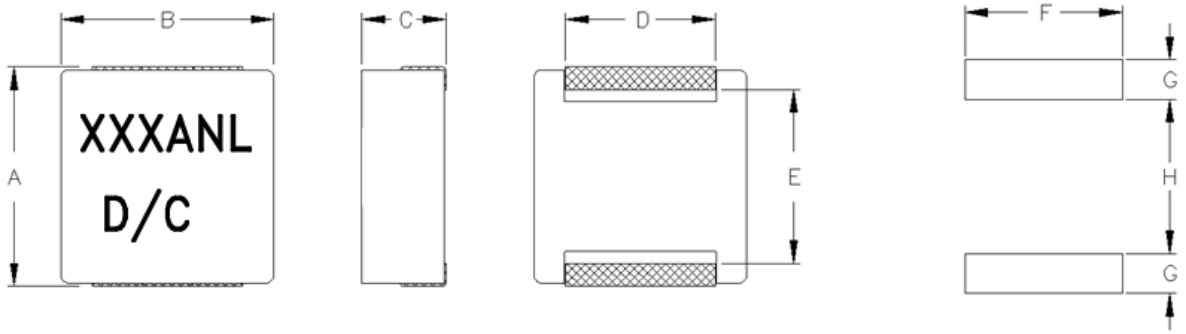
| Part Number | Inductance 100KHz, 1V | Rated Current | DC Resistance | | Saturation Current |
|---|---|---|---|---|---|
| | | | TYP. | MAX. | |
| | uH±20% | A | mΩ | mΩ | A |
| PA4344.471ANLT | 0.47 | 60 | 0.7 | 0.9 | 110 |
| PA4344.561ANLT | 0.56 | 56 | 0.81 | 0.97 | 80 |
| PA4344.102ANLT | 1 | 52 | 1.03 | 1.2 | 50 |
| PA4344.152ANLT | 1.5 | 39 | 1.5 | 1.8 | 46 |
| PA4344.182ANLT | 1.8 | 35 | 1.7 | 2 | 40 |
| PA4344.222ANLT | 2.2 | 32 | 1.8 | 2.2 | 35 |
| PA4344.332ANLT | 3.3 | 30 | 2.7 | 3.3 | 32 |
| PA4344.472ANLT | 4.7 | 28 | 3.7 | 4.5 | 29 |
| PA4344.682ANLT | 6.8 | 24 | 6 | 7.2 | 25 |
| PA4344.103ANLT | 10 | 21 | 9.2 | 10.6 | 22 |
| PA4344.153ANLT | 15 | 16 | 12.8 | 15.5 | 16 |
| PA4344.223ANLT | 22 | 13.5 | 20.5 | 24 | 13.5 |
| PA4344.333ANLT | 33 | 12 | 32 | 37 | 12 |
| PA4344.473ANLT | 47 | 9.5 | 40 | 47 | 9.5 |
| PA4344.823ANLT | 82 | 6.5 | 69 | 83 | 8 |

**Notes:**

1. Actual temperature of the component during system operation (ambient plus temperature rise) must be within the standard operating range.
2. The saturation current is the current at which the initial inductance drops approximately 30% at the stated ambient temperature. This current is determined by placing the compnent in the specified ambient environment and applying a short duration pulse current (to eliminate self-heating effect) to the component.
3. The rated current is the DC current required to raise the component temperature by approximately 40 ˚ C. Take note that the components' performanc varies depending on the system condition. It is suggested that the component be tested at the system level, to verify the temperature rise of the component during system operation.
4. The part temperature (ambient+temp rise) should not exceed 155 ˚ C under worst case operating conditions. Circuit design, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
5. Parts shown in bold are standard catalog parts and are available through sample stock and distribution. Parts in lighter font are available but are not necessarily held in sample stock or distribution and lead times may be longer. Please contact Pulse for availablity.

## Mechanical

### PA4344.XXXANLT



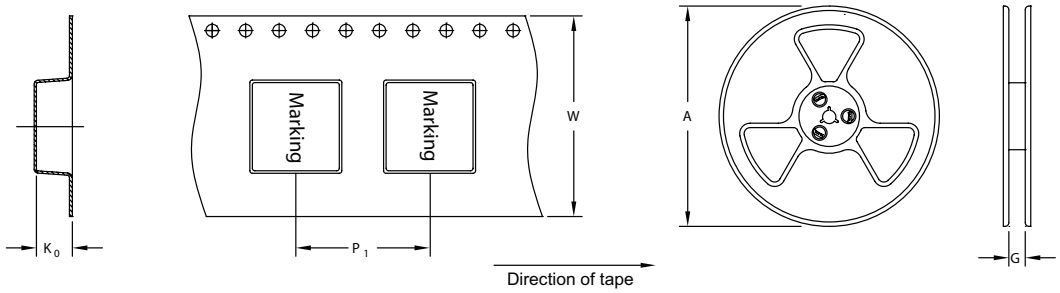

Final Layout

SUGGESTED PAD LAYOUT

| Series | A | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|---|
| PA4344.XXXANLT | 17.8±0.5 | 16.9±0.3 | 6.7±0.3 | (11.9) | (13.1) | (12.5) | (3.15) | (12.2) |

All Dimensions in mm.

### TAPE & REEL INFO




| SURFACE MOUNTING TYPE, REEL/TAPE LIST | | | | | | |
|---|---|---|---|---|---|---|
| | REEL SIZE (mm) | | TAPE SIZE (mm) | | | QTY |
| | A | G | $P_1$ | W | $K_0$ | PCS/REEL |
| PA4344.XXXANLT | Ø330 | 32.4 | 24 | 32 | 7.5 | 200 |

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