

**SMT Power Inductors**  
**High Current Molded Power Inductor – PA4346.XXXANLT Series**



- Ⓢ **Height:** 5.0mm Max
- Ⓢ **Footprint:** 14.0mm x 12.8mm Max
- Ⓢ **Current Rating:** up to 50A
- Ⓢ **Inductance Range:** 0.22uH to 68uH
- Ⓢ Shielded construction and compact design
- Ⓢ High current, low DCR, and high efficiency
- Ⓢ Minimized acoustic noise and minimized leakage flux
- Ⓢ 60 Vdc Voltage Rating between terminals

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

| Part Number    | Inductance <sup>5,8</sup><br>100KHz, 1V<br><br>uH±20% | Rated <sup>3</sup><br>Current<br><br>A | DC Resistance |      | Saturation <sup>2</sup><br>Current<br><br>A | SRF  |  | Mechanical  | K Factor |
|----------------|-------------------------------------------------------|----------------------------------------|---------------|------|---------------------------------------------|------|--|-------------|----------|
|                |                                                       |                                        | TYP.          | MAX. |                                             | TPY. |  |             |          |
|                |                                                       |                                        | mΩ            | mΩ   |                                             | MHz  |  |             |          |
| PA4346.221ANLT | 0.22                                                  | 50.0                                   | 0.50          | 0.61 | 60.0                                        | 111  |  | Footprint 1 | 104.6    |
| PA4346.331ANLT | 0.33                                                  | 37.0                                   | 0.65          | 0.80 | 59.0                                        | 90   |  | Footprint 1 |          |
| PA4346.361ANLT | 0.36                                                  | 36.0                                   | 0.68          | 0.84 | 59.0                                        | 72   |  | Footprint 1 |          |
| PA4346.391ANLT | 0.39                                                  | 35.0                                   | 0.74          | 0.87 | 58.0                                        | 72   |  | Footprint 1 |          |
| PA4346.471ANLT | 0.47                                                  | 34.0                                   | 0.77          | 0.90 | 58.0                                        | 63   |  | Footprint 1 | 67.9     |
| PA4346.501ANLT | 0.50                                                  | 33.0                                   | 0.95          | 1.10 | 55.0                                        | 60   |  | Footprint 1 |          |
| PA4346.561ANLT | 0.56                                                  | 32.5                                   | 1.10          | 1.30 | 50.0                                        | 57   |  | Footprint 1 |          |
| PA4346.681ANLT | 0.68                                                  | 31.0                                   | 1.30          | 1.55 | 42.0                                        | 52   |  | Footprint 1 | 75.8     |
| PA4346.821ANLT | 0.82                                                  | 29.0                                   | 1.40          | 1.70 | 38.0                                        | 48   |  | Footprint 1 | 68.7     |
| PA4346.102ANLT | 1.00                                                  | 27.0                                   | 1.60          | 1.90 | 34.0                                        | 38   |  | Footprint 1 | 53.5     |
| PA4346.122ANLT | 1.20                                                  | 24.0                                   | 2.40          | 2.80 | 30.0                                        | 31   |  | Footprint 2 |          |
| PA4346.152ANLT | 1.50                                                  | 22.0                                   | 3.20          | 3.80 | 28.0                                        | 29   |  | Footprint 2 | 43.7     |
| PA4346.182ANLT | 1.80                                                  | 19.0                                   | 3.70          | 4.30 | 25.0                                        | 26   |  | Footprint 2 |          |
| PA4346.222ANLT | 2.20                                                  | 15.5                                   | 4.1           | 4.80 | 23.0                                        | 21   |  | Footprint 2 | 28.3     |
| PA4346.332ANLT | 3.30                                                  | 14.0                                   | 6.0           | 7.00 | 20.5                                        | 17   |  | Footprint 2 | 20.9     |
| PA4346.472ANLT | 4.70                                                  | 12.5                                   | 8.8           | 10.2 | 16.0                                        | 14   |  | Footprint 2 | 14.8     |
| PA4346.562ANLT | 5.60                                                  | 12.0                                   | 10.0          | 12.0 | 15.5                                        | 12   |  | Footprint 2 | 13.9     |
| PA4346.602ANLT | 6.00                                                  | 11.5                                   | 12.5          | 15.0 | 15.2                                        | 11.5 |  | Footprint   |          |
| PA4346.682ANLT | 6.80                                                  | 11.0                                   | 13.0          | 16.0 | 15.0                                        | 11   |  | Footprint 2 | 12.4     |
| PA4346.822ANLT | 8.20                                                  | 10.0                                   | 15.0          | 18.0 | 12.0                                        | 10   |  | Footprint 2 | 10.5     |
| PA4346.103ANLT | 10.0                                                  | 9.0                                    | 19.2          | 22.0 | 10.5                                        | 9    |  | Footprint 2 | 13.6     |
| PA4346.153ANLT | 15.0                                                  | 8.2                                    | 30.0          | 36.0 | 9.2                                         | 8    |  | Footprint 2 | 10.4     |
| PA4346.223ANLT | 22.0                                                  | 7.0                                    | 42.0          | 52.0 | 7.5                                         | 7    |  | Footprint 2 | 9.2      |

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

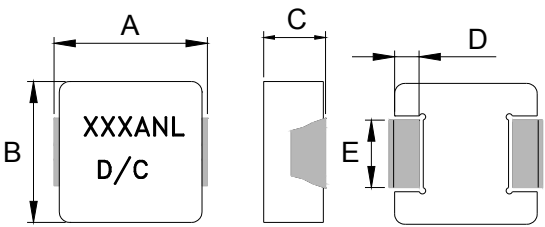
| Part Number    | Inductance <sup>5,8</sup><br>100KHz, 1V | Rated <sup>3</sup><br>Current | DC Resistance |      | Saturation <sup>2</sup><br>Current | SRF | Mechanical  | K Factor |
|----------------|-----------------------------------------|-------------------------------|---------------|------|------------------------------------|-----|-------------|----------|
|                |                                         |                               | TYP.          | MAX. |                                    |     |             |          |
|                |                                         |                               | mΩ            | mΩ   |                                    |     |             |          |
| PA4346.333ANLT | 33                                      | 5.2                           | 66            | 80   | 6.5                                | 6   | Footprint 2 | 6.5      |
| PA4346.473ANLT | 47                                      | 4.3                           | 78            | 94   | 5.2                                | 5   | Footprint 2 | 5.5      |
| PA4346.683ANLT | 68                                      | 3.6                           | 110           | 132  | 4.4                                | 3   | Footprint 2 | 4.4      |

Notes:

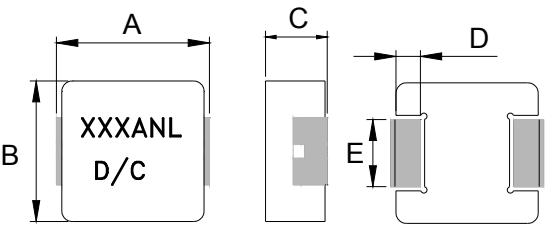
- Actual temperature of the component during system operation (ambient plus temperature rise) must be within the standard operating range.
- The saturation current is the current at which the initial inductance drops by approximately 30% at the stated ambient temperature. The maximum allowable drop at this stated current is 40% of the initial inductance. This current is determined by placing the component in the specified ambient environment and applying a short duration pulse current (to eliminate self-heating effect) to the component.
- The rated current is the DC current required to raise the component temperature by approximately 40°C. Take note that the components' performance 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.
- The part temperature (ambient+temp rise) should not exceed maximum operating temperature 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.
- Please note that the inductance tolerance of all parts are ±20%, except those indicated by an \* which are +/- 30%.
- 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 availability.
- The mechanical dimensions are 100% tested in production but do not necessarily meet a product capability index (Cpk) 1.33 and therefore may not strictly conform to PPAP.
- Special Characteristics 

Mechanical

PA4346.XXXANLT

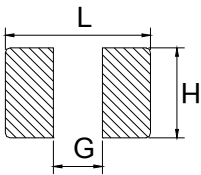


Footprint 1



Footprint 2

Final Layout

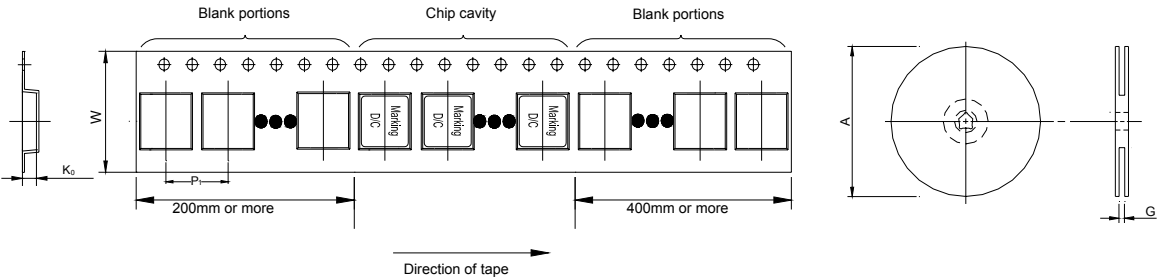


SUGGESTED PAD LAYOUT

| Series         | Mechanical  | A         | B         | C        | D        | E        | L    | G   | H   |
|----------------|-------------|-----------|-----------|----------|----------|----------|------|-----|-----|
| PA4346.XXXANLT | Footprint 1 | 13.5 ±0.5 | 12.6 ±0.2 | 4.7 ±0.3 | 2.3 ±0.3 | 4.0 ±0.3 | 14.5 | 8.0 | 5.0 |
| PA4346.XXXANLT | Footprint 2 | 13.5 ±0.5 | 12.6 ±0.2 | 4.7 ±0.3 | 2.3 ±0.3 | 4.7 ±0.3 | 14.5 | 8.0 | 5.0 |

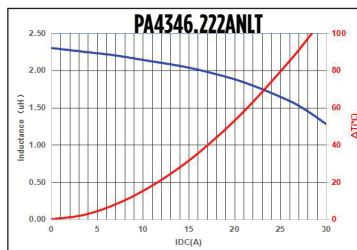
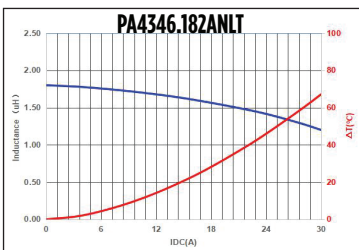
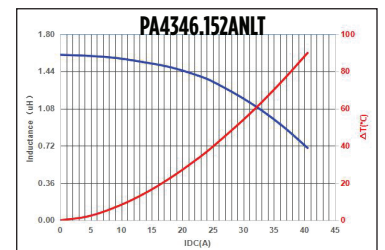
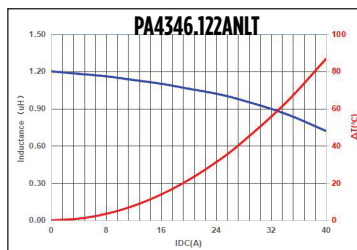
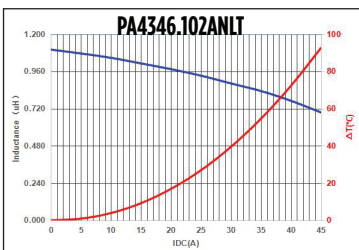
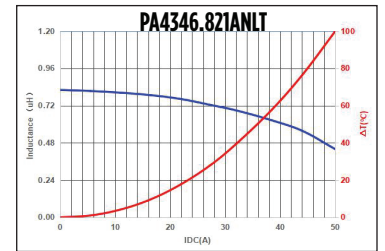
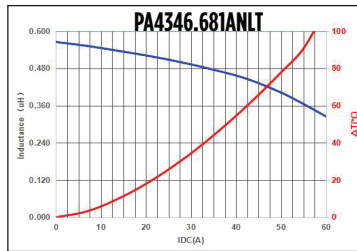
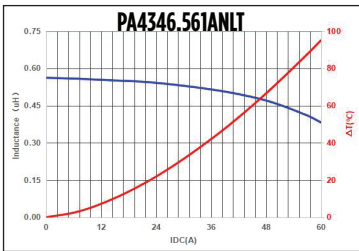
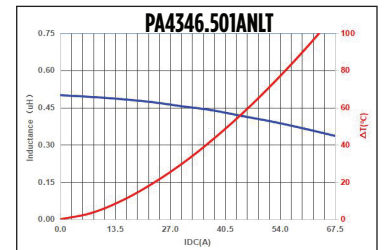
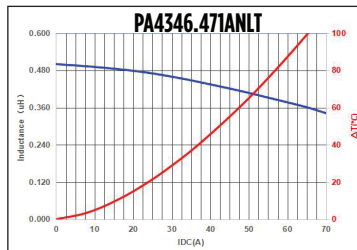
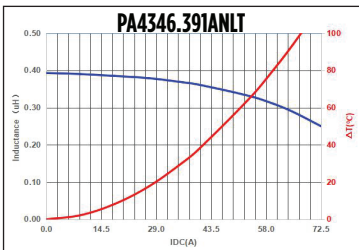
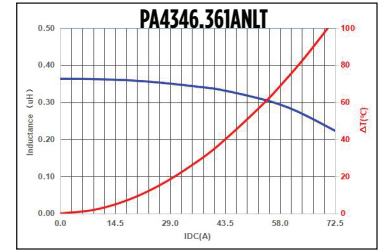
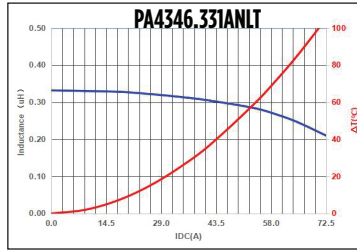
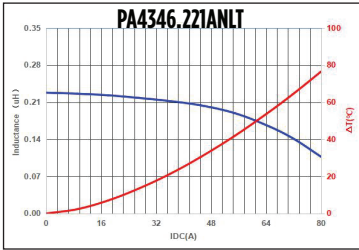
All Dimensions in mm.

TAPE & REEL INFO

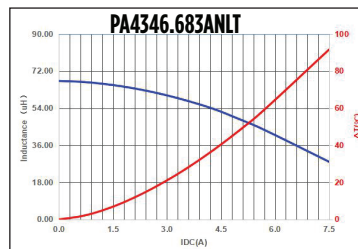
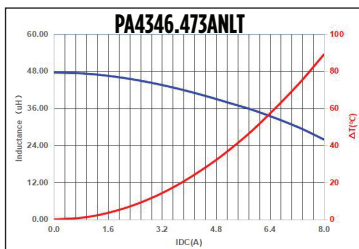
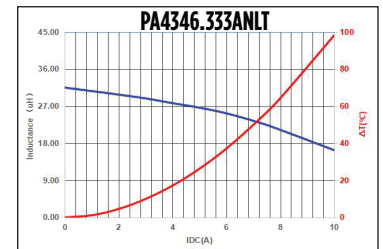
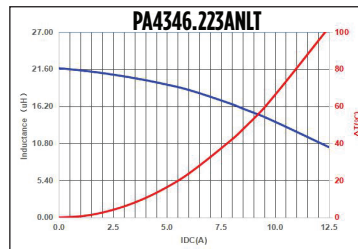
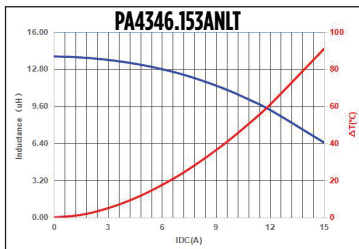
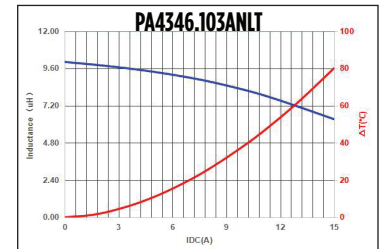
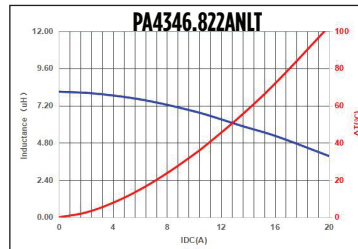
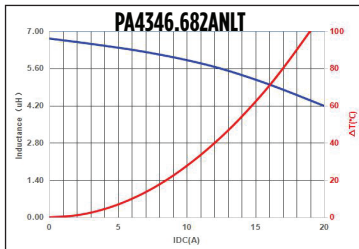
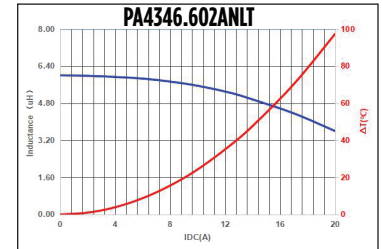
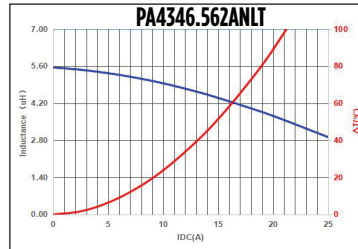
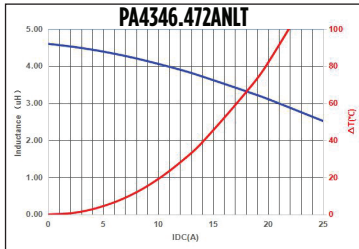


| SURFACE MOUNTING TYPE, REEL/TAPE LIST |                |      |                |    |                |          |
|---------------------------------------|----------------|------|----------------|----|----------------|----------|
| TYPE                                  | REEL SIZE (mm) |      | TAPE SIZE (mm) |    |                | QTY      |
|                                       | A              | G    | P <sub>1</sub> | W  | K <sub>0</sub> | PCS/REEL |
| PA4346.XXXANLT                        | Ø330           | 24.4 | 16             | 24 | 5.5            | 500      |

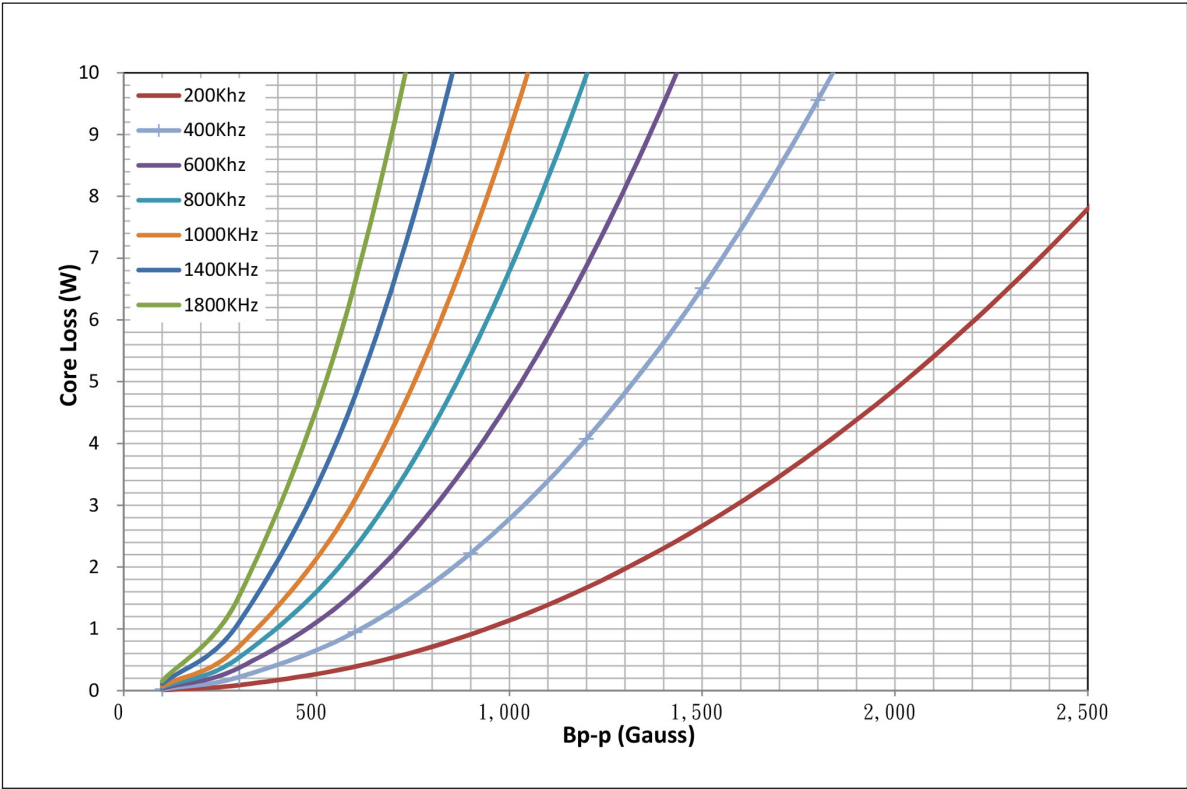
Typical Performance Curves



Typical Performance Curves



Core Loss



$$Bp-p = K * L(uH) * \Delta I(A)$$

For More Information:

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