SMT Power Inductor

Power Beads - PA2607.XXXNL/PA2607.XXXAHL Series













Current Rating: Over 90 Apk

Inductance Range: 115nH to 300nH

Meight: 7.5mm and 7.6mm Max

Footprint: 10.4mm x 7.9mm Max

| Electrical Specifications @ 25°C — Operating Temperature -40°C to +130°C ⁷ | | | | | | | | | |
|---|-----------------------------------|-----------------------|---------------------|--|--|-------|---------------------------------|----------------|--|
| Part Number | Inductance ¹ @ OADC | Inductance @Irated | Irated ² | DCR ³ | Saturation Current ⁴ (A TYP) | | Heating Current ⁶ | Heigh mm* | |
| Commerical | (nH +/- 15%) | (nH TYP) | (ADC) | (m Ω nominal) | 25°C | 100°C | (A TYP) | (inches) | |
| PA2607.121NL | 115 | 115 | 41 | 0.29 +/- 7% (.XXNL) 0.29 +/- 5% (.XXXAHL) | 94 | 80 | 41 | 7.4* (.291) | |
| PA2607.151NL | 150 | 150 | 41 | | 72 | 61 | | | |
| PA2607.181NL | 175 | 175 | 41 | | 62 | 53 | | | |
| PA2607.211NL | 215 | 195 | 41 | | 48 | 41 | | 7.3* (.287) | |
| PA2607.231NL | 230 | 208 | 37 | | 43 | 37 | | | |
| PA2607.271NL | 270 | 241 | 34 | | 37 | 34 | | | |
| PA2607.301NL | 300 | 260 | 28 | | 32 | 28 | | | |

NOTES:

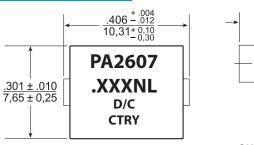
- 1. Inductance measured at 100kHz, 100mVrms.
- 2. Inductance at Irated is the value of the inductance at 25°C at the listed rated current.
- 3. The nominal DCR is measured from point (a) to point (b), as shown below on the mechanical drawing. The standard part (PA2607.XXXNL) has a DCR tolerance of +/-7%. A tighter DCR tolerance of +/-5% is available by changing the NL suffix to AHL (i.e. PA2607.211NL becomes PA2607.211AHL).
- 4. The saturation current is the typical current which causes the inductance to drop by 20% at the stated ambient temperatures (25°C and 100°C). This current is determined by placing the component in the specified ambient environment and applying a short duration pulse current(to eliminate self-heating effects) to the component.
- 5. The heating current is the DC current which causes the part temperature to increase by approximately 40°C.
- 6. In high volt*time applications, additional heating in the component can occur due to

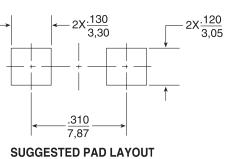
- core losses in the inductor which may necessitate derating the current in order to limit the temperature rise of the component. To determine the approximate total losses (or temperature rise) for a given application, the coreloss and temperature rise curves can be used
- Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (i.e. PA2607.211NL becomes PA2607.211NLT). Pulse complies to industry standard tape and reel specification EIA481.
- 3. The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.

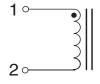


Mechanical Schematic

PA2607.XXXNL/PA2607.XXXHNL







*Please note that marking shown is for the PA2607.XXXNL parts.

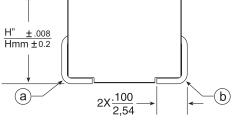
Marking for AHL parts is the same except PA2607.XXXNL is replaced
by PA2607.XXXAHL.

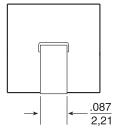
Weight2.4grams **Tape & Reel**400/reel

Dimensions: Inches mm

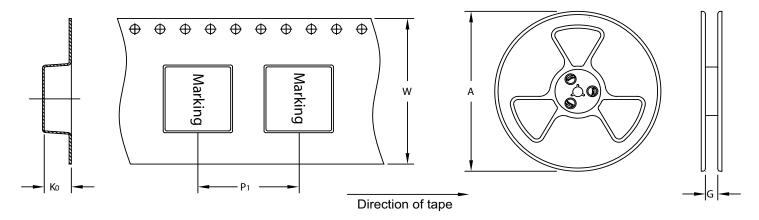
Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.25}$





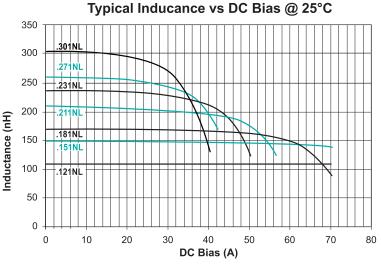


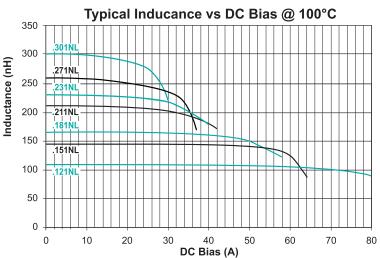
TAPE & REEL INFO

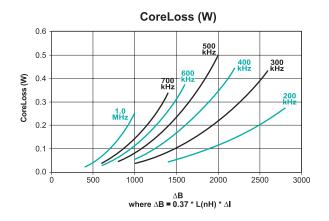


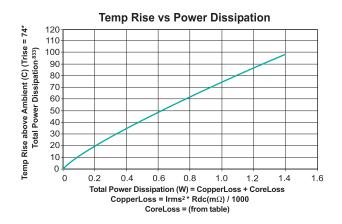
| SURFACE MOUNTING TYPE, REEL/TAPE LIST | | | | | | | |
|---------------------------------------|----------------|------|----------------|------|------------|----------|--|
| PART NUMBER | REEL SIZE (mm) | | TAPE SIZE (mm) | | | QTY | |
| PART NUMBER | A | G | P ₁ | W | K o | PCS/REEL | |
| PA2607.XXXNL/PA2607.XXXHNL | Ø330 | 24.4 | 16.0 | 24.0 | 8.1 | 400 | |











For More Information

| TOT WORE INITIALITY | | | | | | |
|---------------------|--|---|--|--|---|---|
| | Pulse Worldwide Headquarters 15255 Innovation Drive Ste 100 San Diego, CA 92128 U.S.A. | Pulse Europe Pulse Electronics GmbH Am Rottland 12 58540 Meinerzhagen Germany | Pulse China Headquarters Pulse Electronics (ShenZhen) CO., LTD D708, Shenzhen Academy of Aerospace Technology, The 10th Keji South Road, Nanshan District, Shenzhen, P.R. China 518057 | Pulse North China Room 2704/2705 Super Ocean Finance Ctr. 2067 Yan An Road West Shanghai 200336 China | Pulse South Asia 3 Fraser Street 0428 DUO Tower Singapore 189352 | Pulse North Asia 1F., No.111 Xiyuan Rd Zhongli City Taoyuan City 32057 Taiwan (R.O.C) |
| | Tel: 858 674 8100 Fax: 858 674 8262 | Tel: 49 2354 777 100 Fax: 49 2354 777 168 | Tel: 86 755 33966678 Fax: 86 755 33966700 | Tel: 86 21 62787060 Fax: 86 2162786973 | Tel: 65 6287 8998 Fax: 65 6280 0080 | Tel: 886 3 4356768 Fax: 886 3 4356820 |

Performance warranty of products offered on this data sheet is limited to the parameters specified. Data is subject to change without notice. Other brand and product names mentioned herein may be trademarks or registered trademarks of their respective owners. © Copyright, 2020. Pulse Electronics, Inc. All rights reserved.