SMT Power Inductors

Power Beads - PA5041 Series





| Electrical Specifications @ 25°C — Operating Temperature -40°C to +130°C ⁷ | | | | | | | | | |
|---|--|--|------------------------------|-----------------------|--------------------------|---|--------|--|--|
| Part Number | Inductance ¹ @ OA _{DC} (nH ±10%) | Inductance ² @Irated (nH TYP) | Irated ³ (ADC) | DCR^4 (m Ω) | Saturatio (A 1 | Heating Current ⁶ (A TYP) | | | |
| | | | | | 25°C | 100°C | (ATTP) | | |
| PA5041.121HLT | 120 | 120 | 40 | | 75 | 74 | | | |
| PA5041.151HLT | 150 | 150 | 40 | 0.29±10% | 72 | 63 | 40 | | |
| PA5041.221HLT | 220 | 220 | 40 | | 50 | 42 | 40 | | |
| PA5041.331HLT | 330 | 300 | 22 | | 28 | 22 | | | |

P

🔑 Height:

🔑 Footprint:

Current Rating: Over 89Apk

Inductance Range: 120nH to 330nH

11mm Max

7.2mm x 6.7mm Max

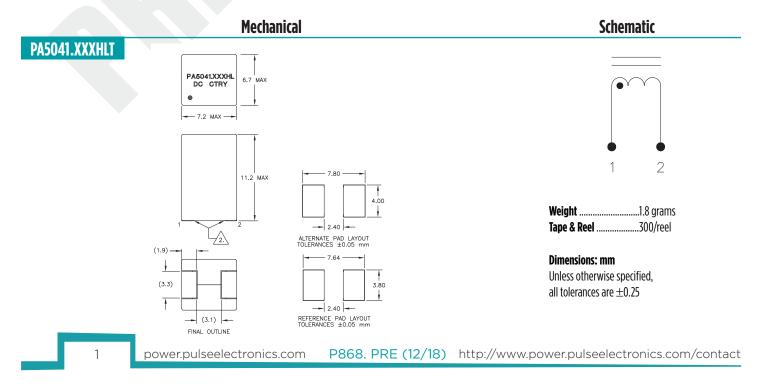
NOTES:

1. Inductance measured at 100kHz, 100mVrms.

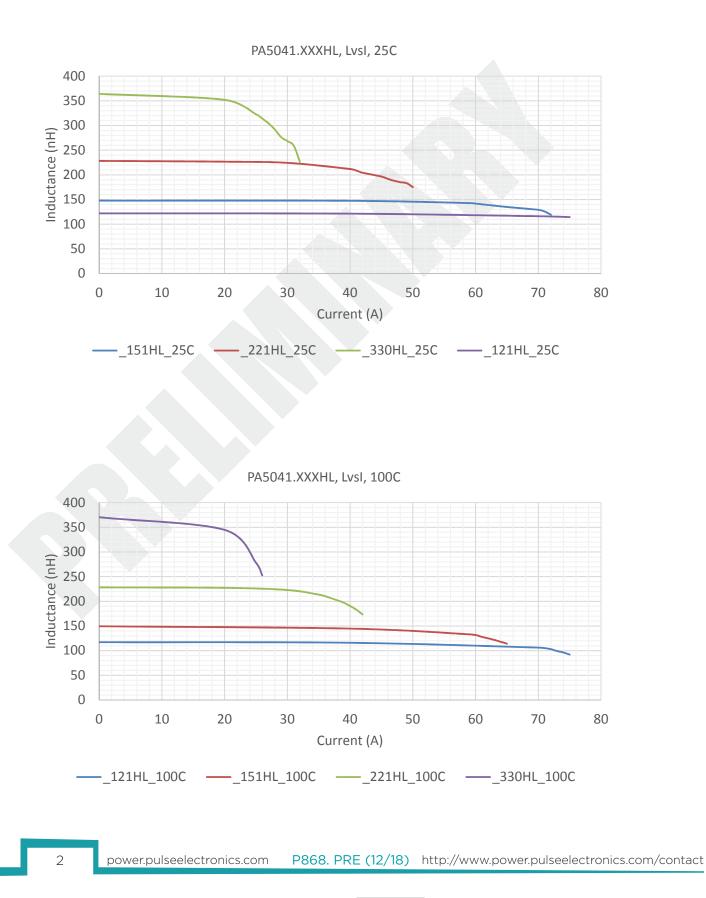
- 2. Inductance at Irated is the value of the inductance at 25°C at the listed rated current.
- 3. The rated current as listed is either the saturation current (25°C or 100°C) or the heating current depending on which value is lower.
- 4. The nominal DCR is measured from point (1) to point (2) , as shown below on the mechanical drawing.
- 5. The saturation current is the typical current which causes the inductance to drop by 20% at the stated ambient temperatures (25°C, 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.
- The heating current is the DC current which causes the part temperature to increase by approximately 40°C when used in a typical application.
- 7. In high volt*time applications, additional heating in the component can occur due to core losses in the inductor which may neccessitate 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.
- 8. Parts with the HLT suffix are sold in tape and reel packaging. Pulse complies to industry standard tape and reel specification EIA-481.

Samples of these parts can be ordered by removing the HLT suffix and replacing with HL.

9. The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.







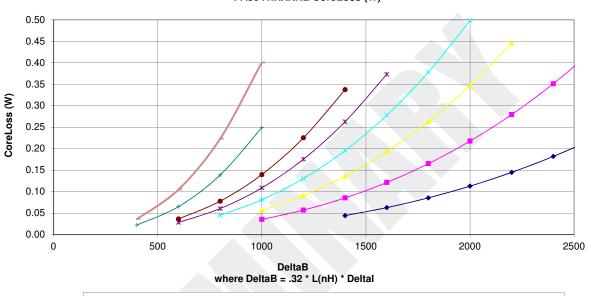
200kHz

3

300kHz

400kHz





500kHz

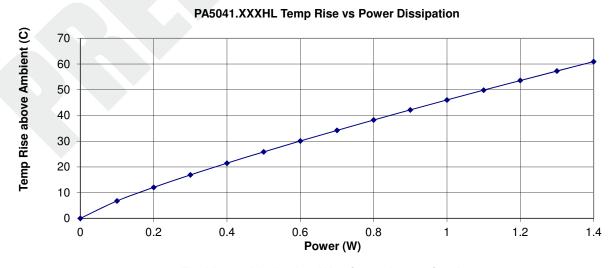
600kHz

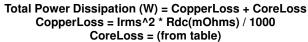
•---- 700kHz

- 1.0MHz

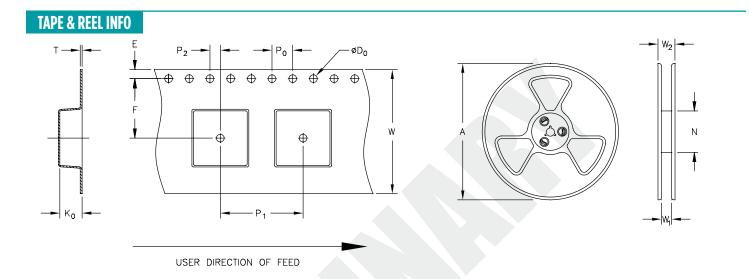
- 1.2MHz

PA5041.XXXNL CoreLoss (W)









| SURFACE MOUNTING TYPE, REEL/TAPE LIST | | | | | | | | | | | | | | |
|---------------------------------------|----------------|------|------|----------------|------|------|-----|----|------------|------------|----|-----|------|----------|
| ТҮРЕ | REEL SIZE (mm) | | | TAPE SIZE (mm) | | | | | | | | QTY | | |
| | A | W1 | W2 | N | E | F | Do | Po | P 1 | P 2 | W | T | Ko | PCS/REEL |
| PA5041.XXXHLT | Ø330 | 24.4 | 30.4 | 100 | 1.75 | 11.5 | 1.5 | 4 | 16 | 2 | 24 | 0.6 | 11.2 | 300 |

| For More Information 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 | Tel: 49 2354 777 100 | Tel: 86 755 33966678 | Tel: 86 21 62787060 | Tel: 65 6287 8998 | Tel: 886 3 4356768 |
| Fax: 858 674 8262 | Fax: 49 2354 777 168 | Fax: 86 755 33966700 | Fax: 86 2162786973 | Fax: 65 6280 0080 | 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, 2018. Pulse Electronics, Inc. All rights reserved.

4

power.pulseelectronics.com P868. PRE (12/18) http://www.power.pulseelectronics.com/contact

单击下面可查看定价,库存,交付和生命周期等信息

>>Pulse(普思)