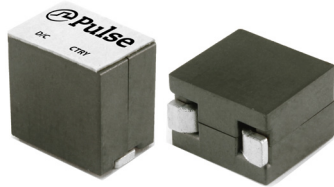
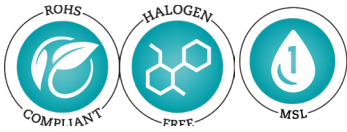


SMT Power Inductors

Power Beads - PA5041 Series



- Current Rating:** Over 89A_{pk}
- Inductance Range:** 120nH to 330nH
- Height:** 11mm Max
- Footprint:** 7.2mm x 6.7mm Max

Electrical Specifications @ 25°C — Operating Temperature -40°C to +130°C⁷

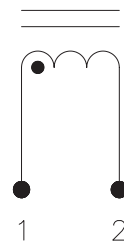
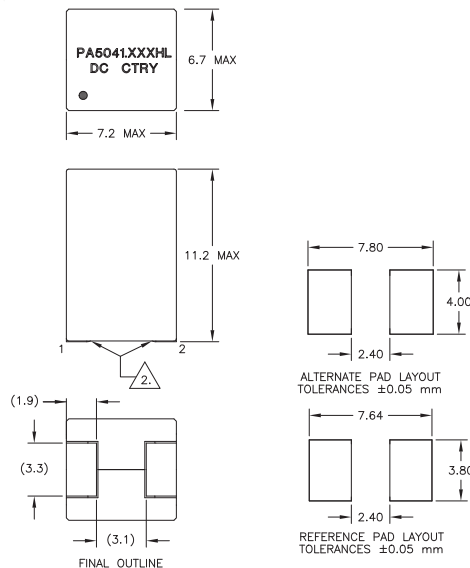
| Part Number | Inductance ¹ @ 0A _{dc} (nH ±10%) | Inductance ² @ I _{rated} (nH TYP) | I _{rated} ³ (ADC) | DCR ⁴ (mΩ) | Saturation Current ⁵ (A TYP) | | Heating Current ⁶ (A TYP) |
|---------------|--|---|--|--------------------------|--|-------|---|
| | | | | | 25°C | 100°C | |
| PA5041.121HLT | 120 | 120 | 40 | 0.29±10% | 75 | 74 | 40 |
| PA5041.151HLT | 150 | 150 | 40 | | 72 | 63 | |
| PA5041.221HLT | 220 | 220 | 40 | | 50 | 42 | |
| PA5041.331HLT | 330 | 300 | 22 | | 28 | 22 | |

- NOTES:**
- Inductance measured at 100kHz, 100mVrms.
 - Inductance at I_{rated} is the value of the inductance at 25°C at the listed rated current.
 - 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.
 - The nominal DCR is measured from point ① to point ②, as shown below on the mechanical drawing.
 - 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.
 - 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.
 - 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.
 - The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.

Mechanical

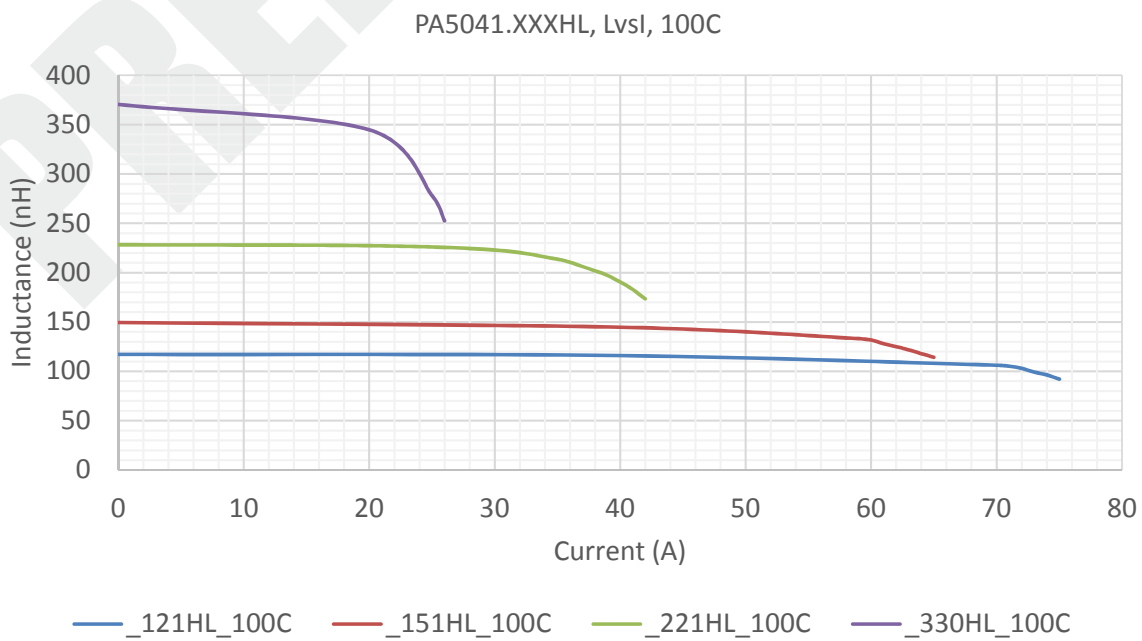
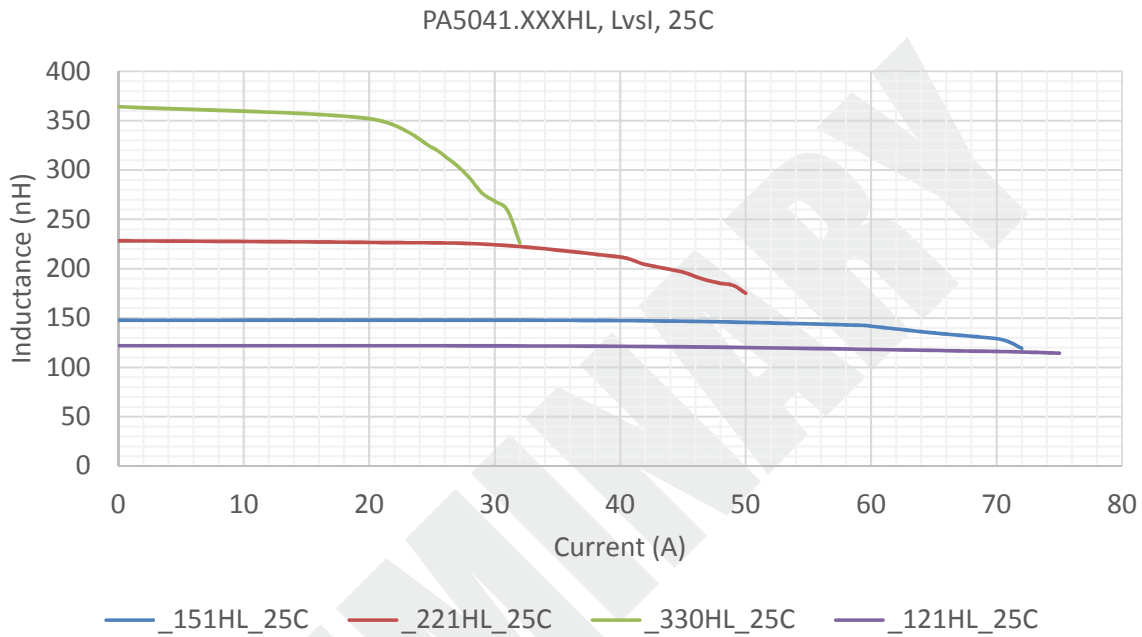
Schematic

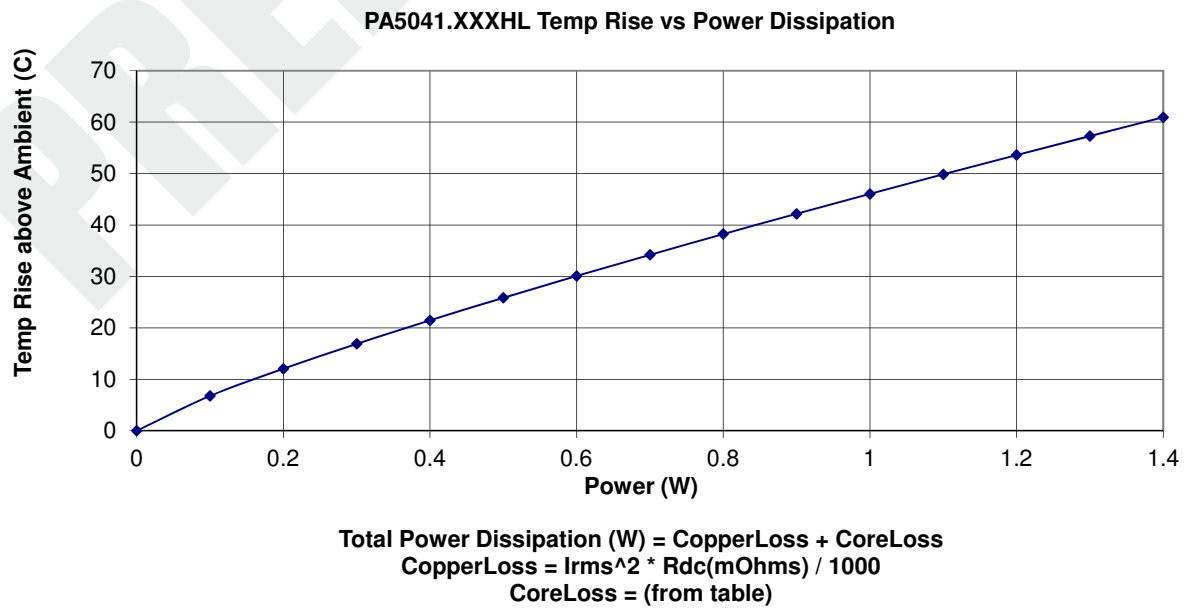
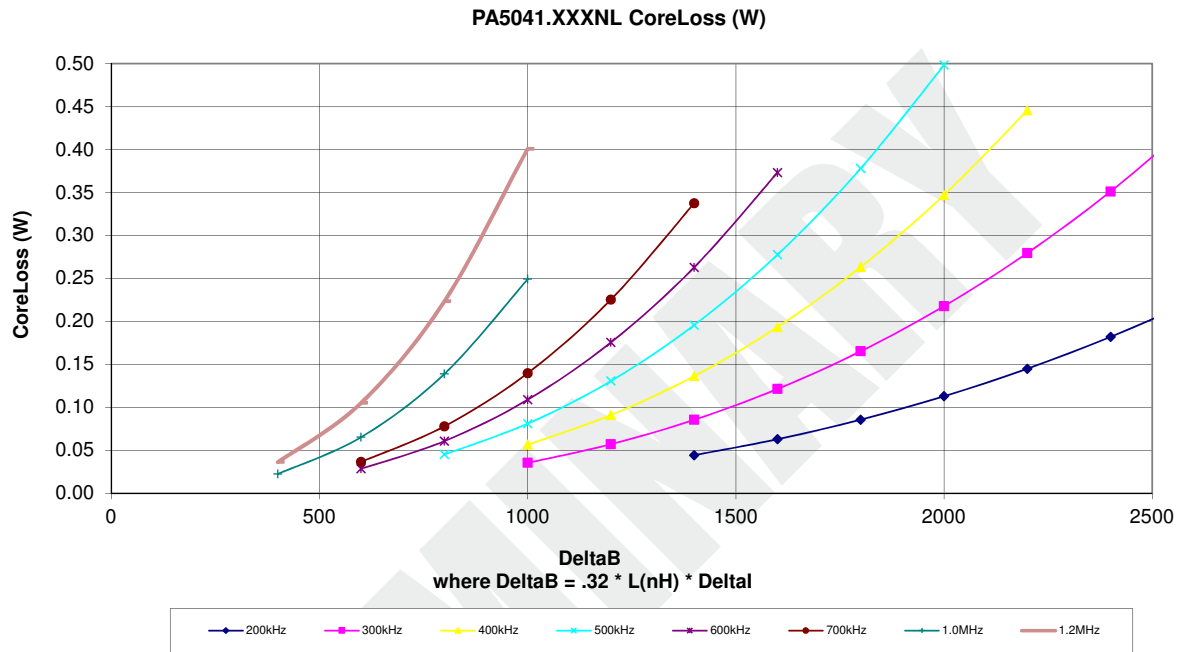
PA5041.XXXHLT



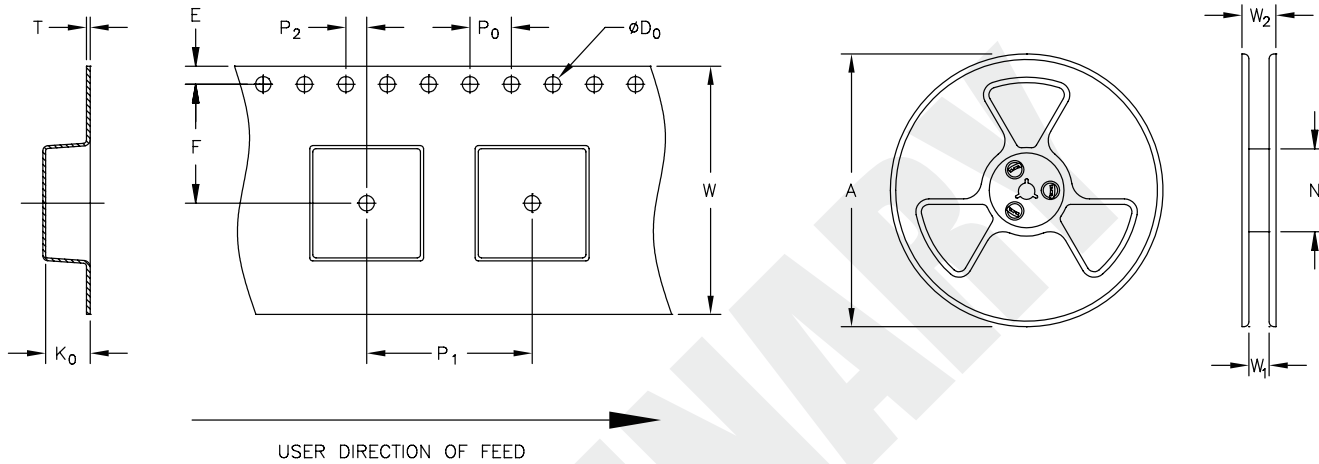
Weight1.8 grams
Tape & Reel300/reel

Dimensions: mm
 Unless otherwise specified,
 all tolerances are ±0.25





TAPE & REEL INFO



SURFACE MOUNTING TYPE, REEL/TAPE LIST

| TYPE | REEL SIZE (mm) | | | | TAPE SIZE (mm) | | | | | | | | QTY | |
|---------------|----------------|----------------|----------------|-----|----------------|------|----------------|----------------|----------------|----------------|----|-----|----------------|----------|
| | A | W ₁ | W ₂ | N | E | F | D ₀ | P ₀ | P ₁ | P ₂ | W | T | K ₀ | 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
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

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