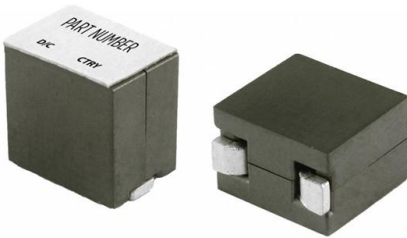


# PA5041.151HLT Datasheet

[www.digi-electronics.com](http://www.digi-electronics.com)



<https://www.DiGi-Electronics.com>

DiGi Electronics Part Number	PA5041.151HLT-DG
Manufacturer	<a href="#">Pulse Electronics</a>
Manufacturer Product Number	PA5041.151HLT
Description	FIXED IND 150NH 40A 0.29MOHM SMD
Detailed Description	150 nH Shielded Inductor 40 A 0.29mOhm Nonstandard



Tel: +00 852-30501935

RFQ Email: [Info@DiGi-Electronics.com](mailto:Info@DiGi-Electronics.com)

DiGi is a global authorized distributor of electronic components.

## Purchase and inquiry

Manufacturer Product Number:

PA5041.151HLT

Series:

PA5041

Type:

-

Inductance:

150 nH

Current Rating (Amps):

40 A

Shielding:

Shielded

Q @ Freq:

-

Ratings:

-

Inductance Frequency - Test:

100 kHz

Mounting Type:

Surface Mount

Supplier Device Package:

-

Height - Seated (Max):

0.441" (11.20mm)

Manufacturer:

Pulse Electronics

Product Status:

Active

Material - Core:

-

Tolerance:

±10%

Current - Saturation (Isat):

72A

DC Resistance (DCR):

0.29mOhm

Frequency - Self Resonant:

-

Operating Temperature:

-40°C ~ 130°C

Features:

-

Package / Case:

Nonstandard

Size / Dimension:

0.283" L x 0.264" W (7.20mm x 6.70mm)

## Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8504.50.8000

Moisture Sensitivity Level (MSL):

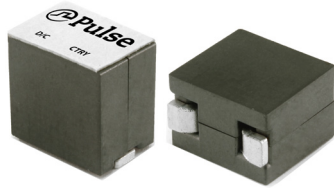
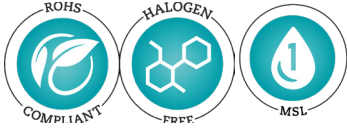
1 (Unlimited)

ECCN:

EAR99

# SMT Power Inductors

Power Beads - PA5041 Series



- Current Rating:** Over 89A<sub>pk</sub>
- 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°C<sup>7</sup>**

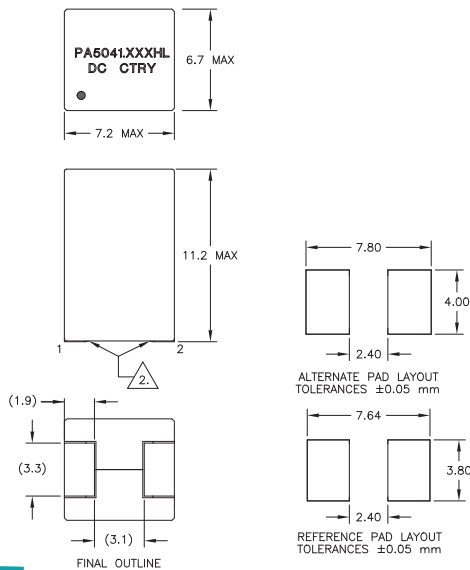
Part Number	Inductance <sup>1</sup> @ 0A <sub>dc</sub> (nH ±10%)	Inductance <sup>2</sup> @I <sub>rated</sub> (nH TYP)	I <sub>rated</sub> <sup>3</sup> (ADC)	DCR <sup>4</sup> (mΩ)	Saturation Current <sup>5</sup> (A TYP)		Heating Current <sup>6</sup> (A TYP)
					25°C	100°C	
PA5041.121HLT	120	120	40	0.29±10%	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:**

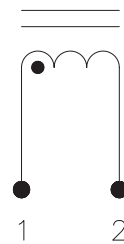
- Inductance measured at 100kHz, 100mVrms.
- Inductance at I<sub>rated</sub> is the value of the inductance at 25°C at the listed rated current.
- The rated current as listed is either the saturation current (25°C or 100°C) or the heating current depending on which value is lower.
- The nominal DCR is 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

### PA5041.XXXHLT



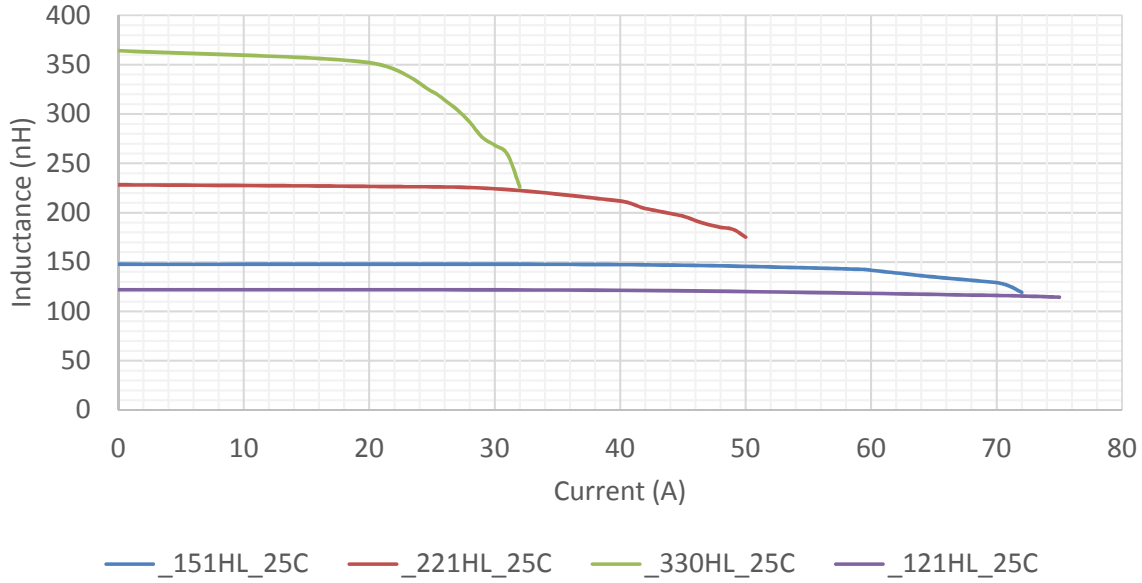
## Schematic



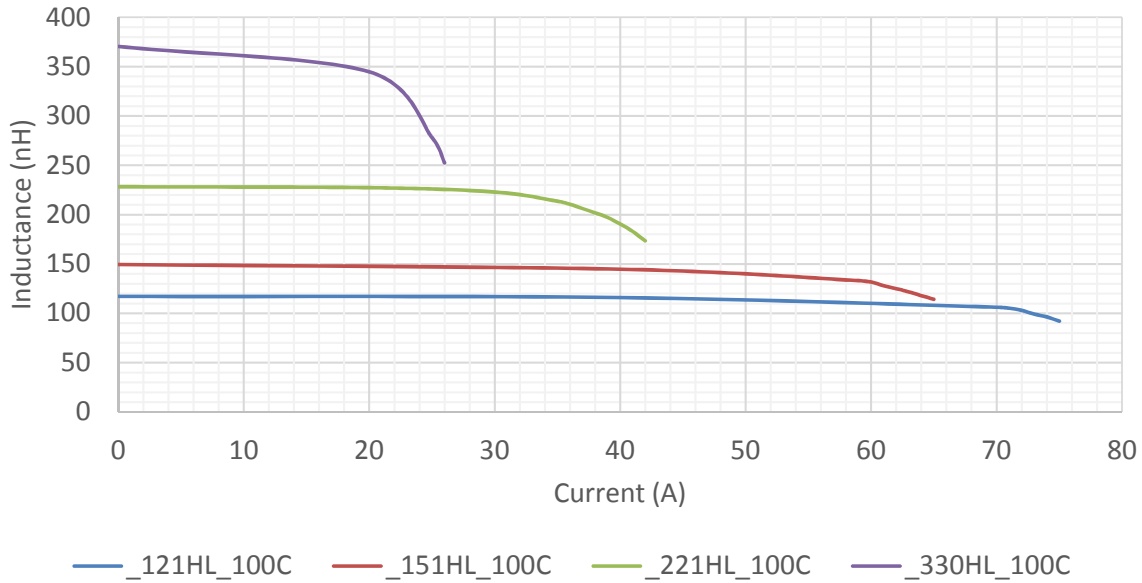
**Weight** .....1.8 grams  
**Tape & Reel** .....300/reel

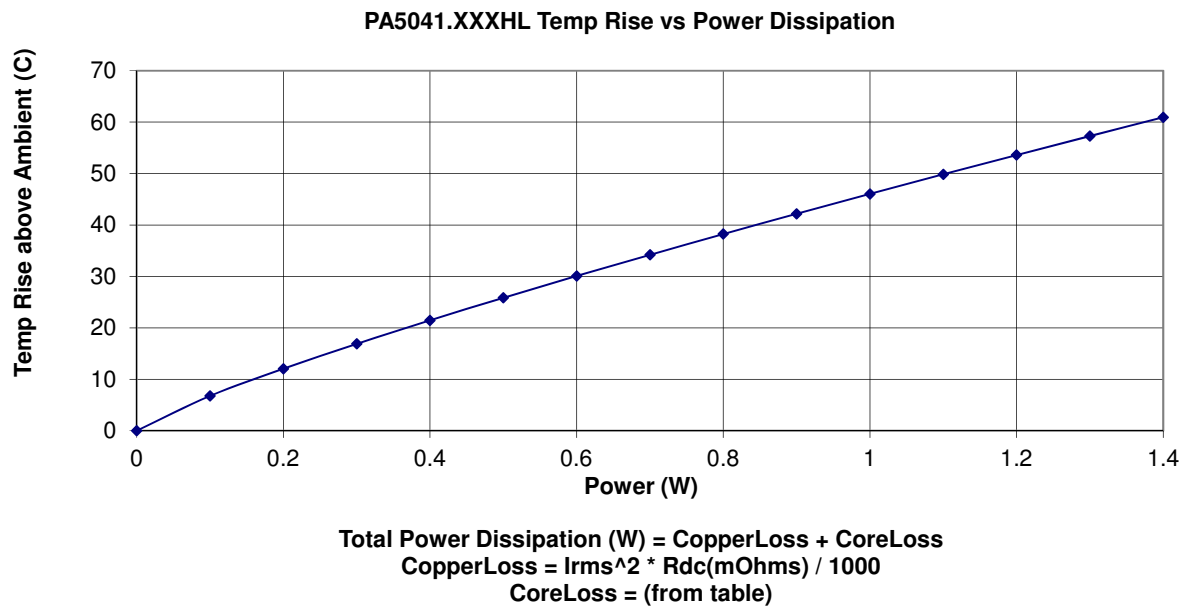
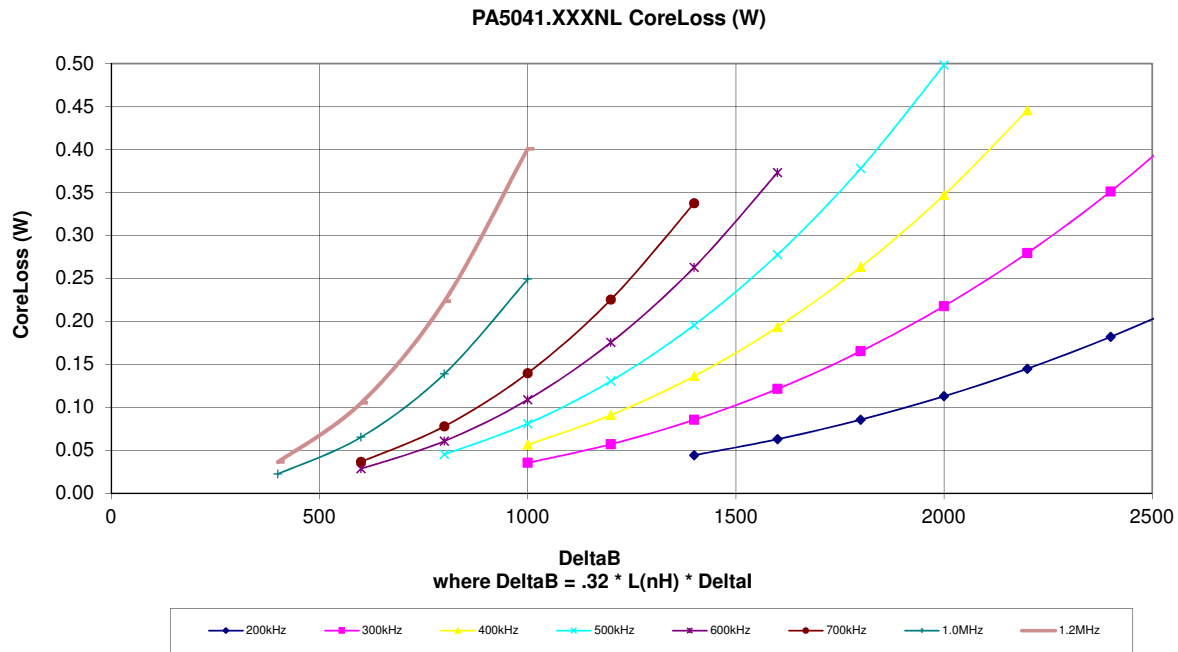
**Dimensions: mm**  
 Unless otherwise specified,  
 all tolerances are ±0.25

PA5041.XXXHL, LvsI, 25C



PA5041.XXXHL, LvsI, 100C

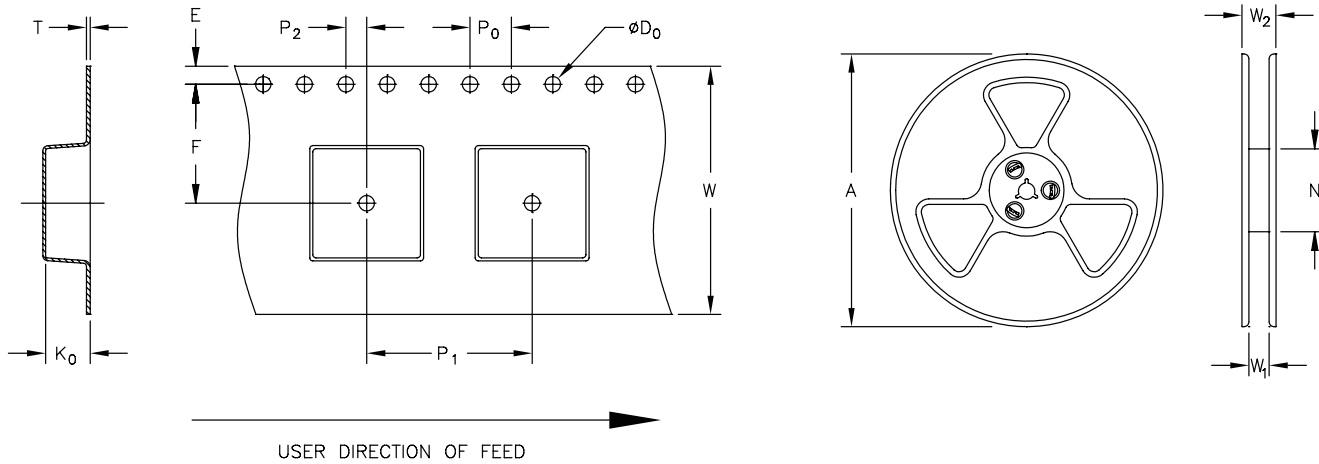




# SMT Power Inductors

## Power Beads - PA5041 Series

### TAPE & REEL INFO



### SURFACE MOUNTING TYPE, REEL/TAPE LIST

TYPE	REEL SIZE (mm)				TAPE SIZE (mm)								QTY	
	A	W1	W2	N	E	F	D0	P0	P1	P2	W	T	K0	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:

Americas - [prodinfo\\_power\\_americas@yageo.com](mailto:prodinfo_power_americas@yageo.com) | Europe - [prodinfo\\_power\\_emea@yageo.com](mailto:prodinfo_power_emea@yageo.com) | Asia - [prodinfo\\_power\\_asia@yageo.com](mailto:prodinfo_power_asia@yageo.com)

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