

# PA4321.152NLT Datasheet

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DiGi Electronics Part Number	PA4321.152NLT-DG
Manufacturer	<a href="#">Pulse Electronics</a>
Manufacturer Product Number	PA4321.152NLT
Description	FIXED IND 1.5UH 7.8A 5.1MOHM SMD
Detailed Description	1.5 $\mu$ H Shielded Wirewound Inductor 7.8 A 5.1mOhm Max Nonstandard, Corner Terminals



Tel: +00 852-30501935

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

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## Purchase and inquiry

Manufacturer Product Number:

PA4321.152NLT

Series:

PA4321

Type:

Wirewound

Inductance:

1.5  $\mu$ H

Current Rating (Amps):

7.8 A

Shielding:

Shielded

Q @ Freq:

-

Ratings:

-

Inductance Frequency - Test:

100 kHz

Mounting Type:

Surface Mount

Supplier Device Package:

-

Height - Seated (Max):

0.201" (5.10mm)

Manufacturer:

Pulse Electronics

Product Status:

Active

Material - Core:

-

Tolerance:

$\pm$ 20%

Current - Saturation (Isat):

5.44A

DC Resistance (DCR):

5.1mOhm Max

Frequency - Self Resonant:

-

Operating Temperature:

-40°C ~ 125°C

Features:

-

Package / Case:

Nonstandard, Corner Terminals

Size / Dimension:

0.394" L x 0.402" W (10.00mm x 10.20mm)

## Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8504.50.8000

Moisture Sensitivity Level (MSL):

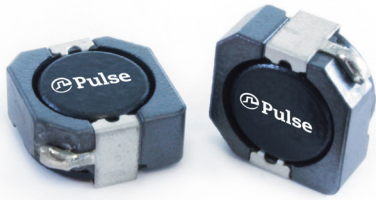
1 (Unlimited)





ECCN:

EAR99

# Shielded Drum Core Inductor

PA4321 Series


**Pulse**  
 A YAGEO Company


-  **Height:** 5.1 Max
-  **Footprint:** 10.5mm x 10.3mm Max
-  **Current Rating:** up to 7.8A
-  **Inductance Range:** 1.5uH to 470uH

**Electrical Specifications @ 25°C – Operating Temperature -40°C to 125°C**

PART NUMBER	Inductance 100 KHZ, 100 mV (uH ±20%)	Rated Current (A)	DCR (mOHMS MAX)	Saturation Current (Typical) A			Heating Current	
				10% Drop	20% Drop	30% Drop	20°C Rise	40°C Rise
PA4321.152NLT	1.5	7.80	5.1	5.44	7.80	10.5	7.41	10.80
PA4321.332NLT	3.3	6.32	10	4.62	6.32	7.38	5.04	7.22
PA4321.103NLT	10	3.84	23	3.08	3.84	4.32	3.99	4.79
PA4321.333NLT	33	2.14	68	1.66	2.14	2.42	2.12	2.80
PA4321.683NLT	68	1.60	176	1.28	1.60	1.70	1.39	1.88
PA4321.104NLT	100	1.20	224	0.99	1.20	1.36	1.09	1.48
PA4321.334NLT	330	0.69	748	0.57	0.69	0.76	0.57	0.82
PA4321.474NLT	470	0.52	886	0.43	0.52	0.62	0.50	0.72

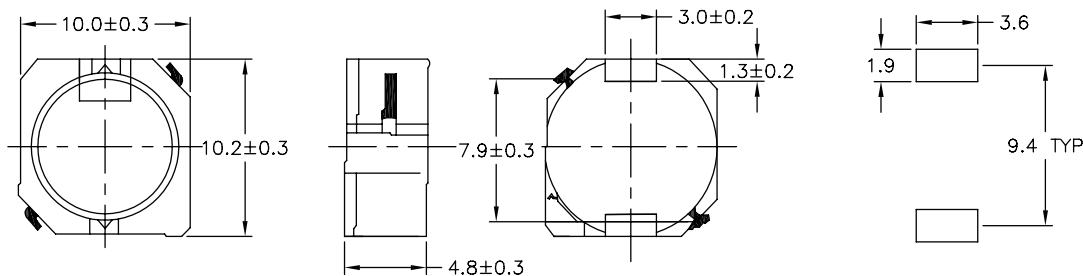
## NOTES:

- 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 approximately by the value shown at the stated ambient temperature. 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 the value shown is the DC current required to raise the component temperature by the value shown. Take note that the component's 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 inductance tolerance of the .152NLT and .332NLT is ± 30% all other values are ±20%.

## Mechanical

## Schematic

### PA4321.XXXNLT



FINAL OUTLINE

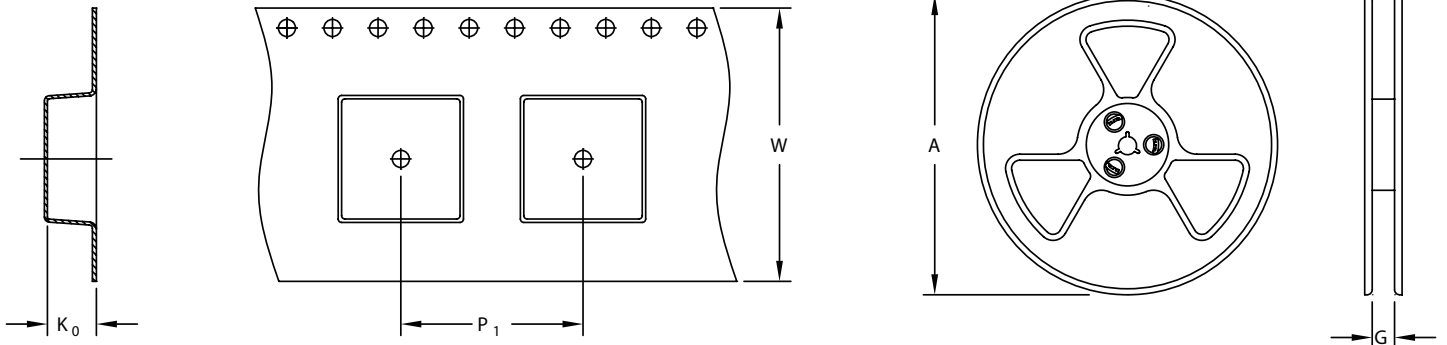
SUGGESTED LAYOUT

# Shielded Drum Core Inductor

PA4321 Series



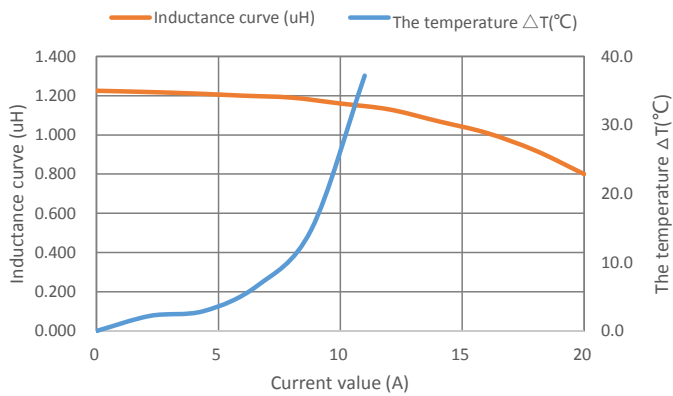
## TAPE & REEL INFO



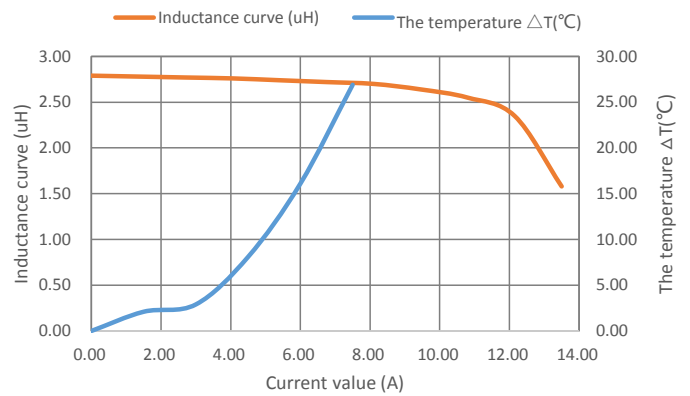
SURFACE MOUNTING TYPE, REEL/TAPE LIST						
TYPE	REEL SIZE (mm)		TAPE SIZE (mm)			QTY
	A	G	P1	W	K0	PCS/REEL
PA4321.XXXNLT	Ø330	24.5	16	24	5.4	750

## Typical Performance Curves

PA4321.152NLT



PA4321.332NLT

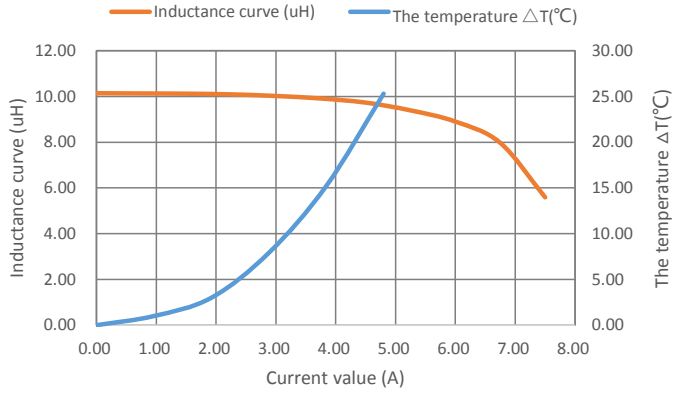


# Shielded Drum Core Inductor

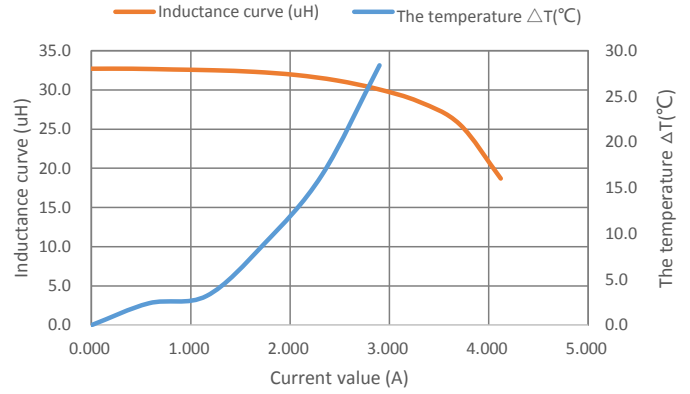
PA4321 Series



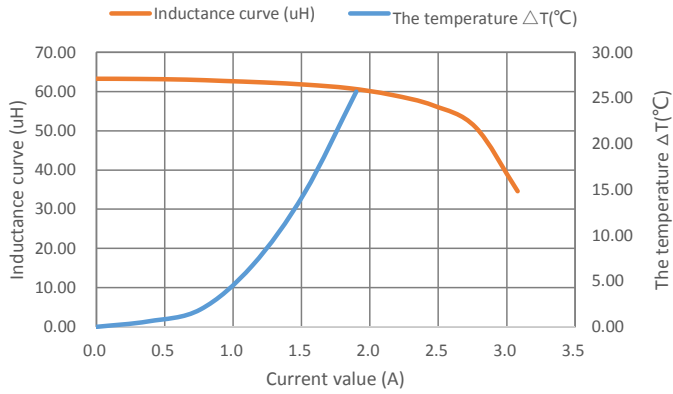
PA4321.103NLT



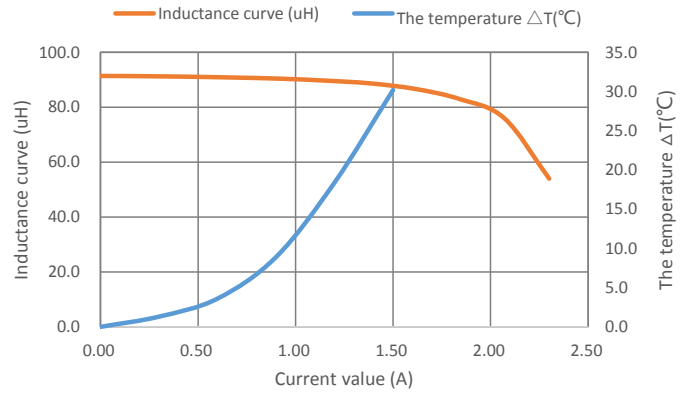
PA4321.333NLT



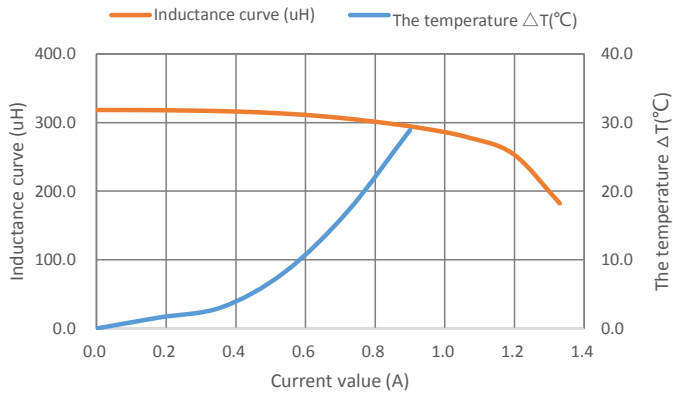
PA4321.683NLT



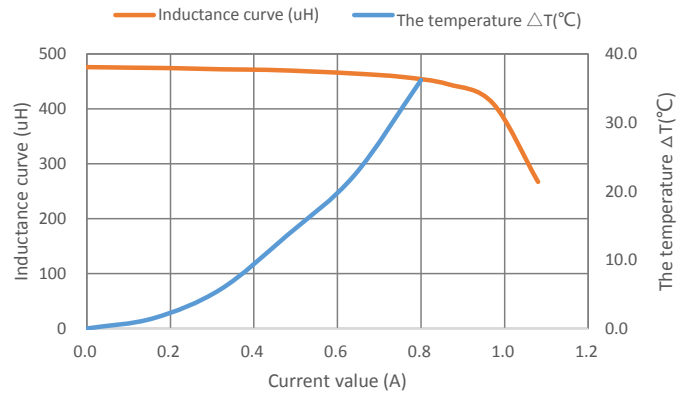
PA4321.104NLT



PA4321.334NLT



PA4321.474NLT



# Shielded Drum Core Inductor

PA4321 Series



## For More Information

### Pulse Worldwide Headquarters

15255 Innovation Drive Ste 100  
San Diego, CA 92128  
U.S.A.

Tel: 858 674 8100  
Fax: 858 674 8262

### Pulse Europe

Pulse Electronics GmbH  
Am Rottland 12  
58540 Meinerzhagen  
Germany

Tel: 49 2354 777 100  
Fax: 49 2354 777 168

### 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

Tel: 86 755 33966678  
Fax: 86 755 33966700

### Pulse North China

Room 2704/2705  
Super Ocean Finance Ctr.  
2067 Yan An Road West  
Shanghai 200336  
China

Tel: 86 21 62787060  
Fax: 86 2162786973

### Pulse South Asia

135 Joo Seng Road  
#03-02  
PM Industrial Bldg.  
Singapore 368363

Tel: 65 6287 8998  
Fax: 65 6280 0080

### Pulse North Asia

1F., No.111 Xiyuan Rd  
Zhongli City  
Taoyuan City 32057  
Taiwan (R.O.C)

Tel: 886 3 4356768  
Fax: 886 3 4356820

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



Tel: +00 852-30501935

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

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