

# PA4320.153NLT Datasheet

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DiGi Electronics Part Number	PA4320.153NLT-DG
Manufacturer	<a href="#">Pulse Electronics</a>
Manufacturer Product Number	PA4320.153NLT
Description	FIXED IND 15UH 7A 22 MOHM SMD
Detailed Description	15 $\mu$ H Shielded Wirewound Inductor 7 A 22mOhm Max Nonstandard



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## Purchase and inquiry

Manufacturer Product Number:

PA4320.153NLT

Series:

PA4320

Type:

Wirewound

Inductance:

15  $\mu$ H

Current Rating (Amps):

7 A

Shielding:

Shielded

Q @ Freq:

-

Ratings:

-

Inductance Frequency - Test:

100 kHz

Mounting Type:

Surface Mount

Supplier Device Package:

-

Height - Seated (Max):

0.402" (10.20mm)

Manufacturer:

Pulse Electronics

Product Status:

Active

Material - Core:

-

Tolerance:

$\pm$ 20%

Current - Saturation (Isat):

8.3A

DC Resistance (DCR):

22mOhm Max

Frequency - Self Resonant:

-

Operating Temperature:

-40°C ~ 125°C

Features:

-

Package / Case:

Nonstandard

Size / Dimension:

0.472" L x 0.472" W (12.00mm x 12.00mm)

## 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

PA4320 Series



- Height:** 10.0 Max
- Footprint:** 12.3mm x 12.3mm Max
- Current Rating:** up to 7.6A
- Inductance Range:** 10uH to 1000uH

## 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
PA4320.103NLT	10	7.6	16	9.6	11.5	12.5	5.4	7.6
PA4320.153NLT	15	7.0	22	8.3	9.9	10.7	4.8	7.0
PA4320.223NLT	22	5.6	30	6.8	8.1	8.8	4.0	5.6
PA4320.473NLT	47	4.2	56	4.5	5.4	5.8	3.0	4.2
PA4320.104NLT	100	2.8	125	3.1	3.7	4.0	2.0	2.8
PA4320.154NLT	150	2.3	185	2.6	3.1	3.4	1.6	2.3
PA4320.224NLT	220	1.8	300	2.1	2.5	2.8	1.2	1.8
PA4320.334NLT	330	1.7	340	1.7	2.1	2.2	1.2	1.7
PA4320.474NLT	470	1.1	510	1.4	1.7	1.8	0.8	1.1
PA4320.564NLT	560	1.1	600	1.3	1.5	1.6	0.9	1.1
PA4320.684NLT	680	1.0	630	1.2	1.4	1.6	0.8	1.0
PA4320.105NLT	1000	1.0	960	0.98	1.2	1.3	0.69	1.0
PA4320.155NLT	1500	0.8	1450	0.81	0.96	1.0	0.56	0.8

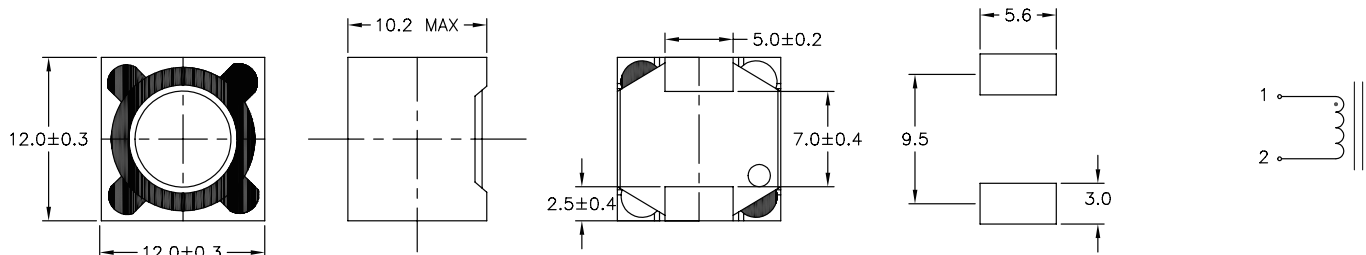
### NOTES:

- 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 amount 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 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 .104NLT / .154NLT / .334NLT / .474NLT / .564NLT / .684NLT / .105NLT and .155NLT are ±10% all other values are ±20%.

## Mechanical

## Schematic

### PA4320.XXXNLT



FINAL OUTLINE

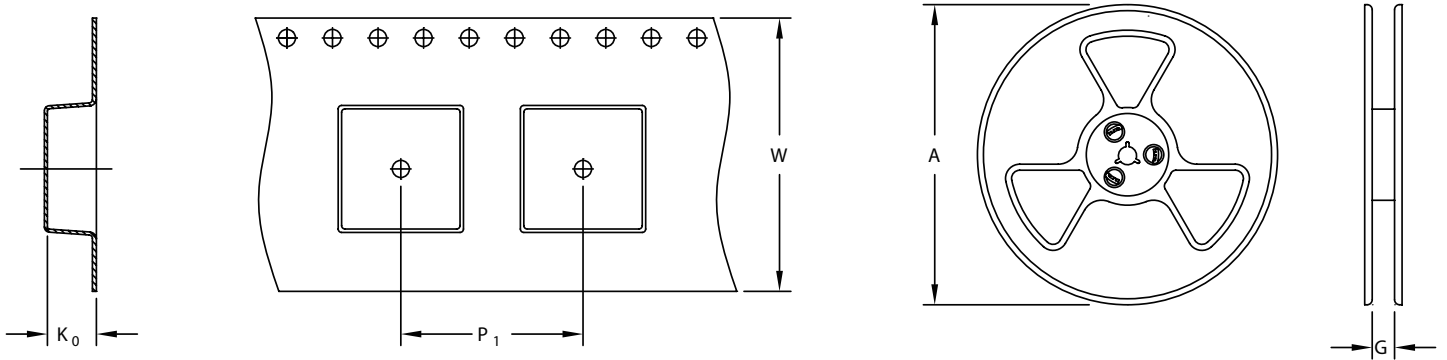
SUGGESTED LAYOUT

# Shielded Drum Core Inductor

PA4320 Series



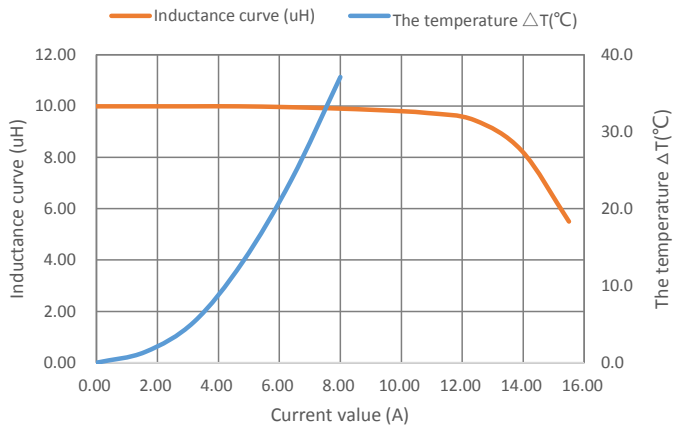
## TAPE & REEL INFO



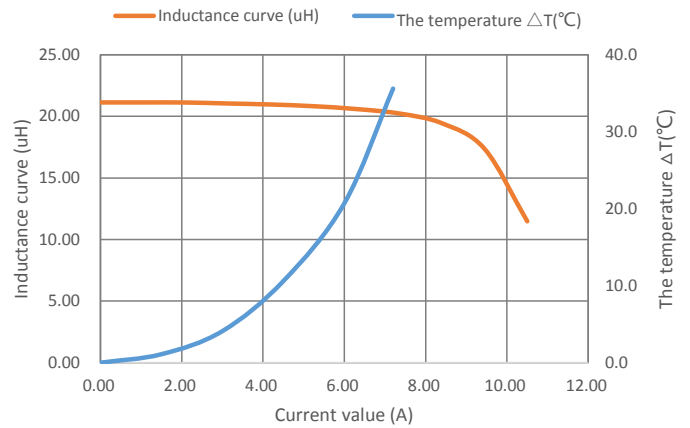
SURFACE MOUNTING TYPE, REEL/TAPE LIST						
TYPE	REEL SIZE (mm)		TAPE SIZE (mm)			QTY
	A	G	P <sub>1</sub>	W	K <sub>0</sub>	PCS/REEL
PA4320.XXXNLT	Ø330	24.5	16	24	10.9	300

## Typical Performance Curves

PA4320.103NLT



PA4320.223NLT

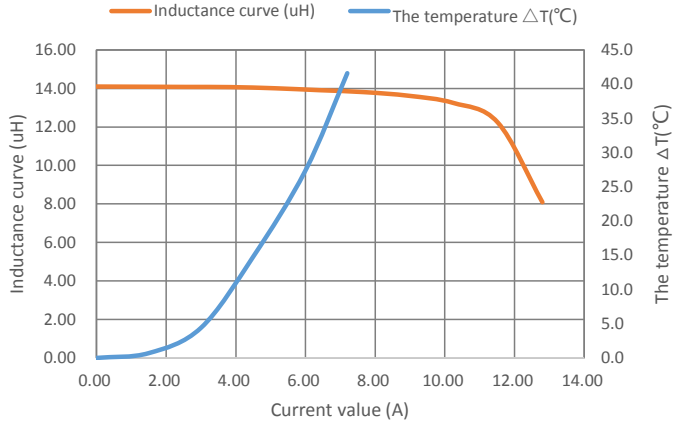


# Shielded Drum Core Inductor

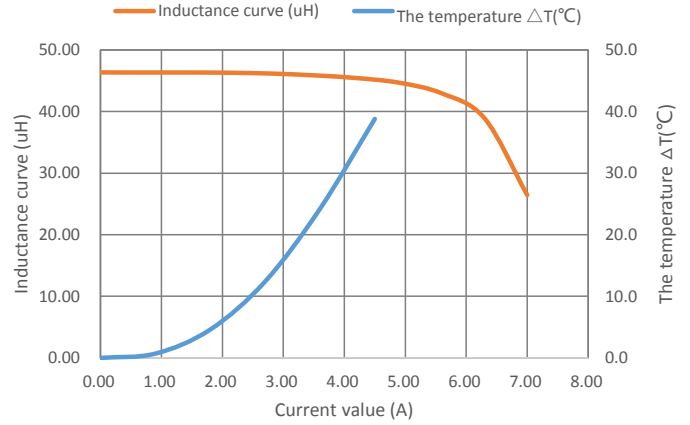
PA4320 Series



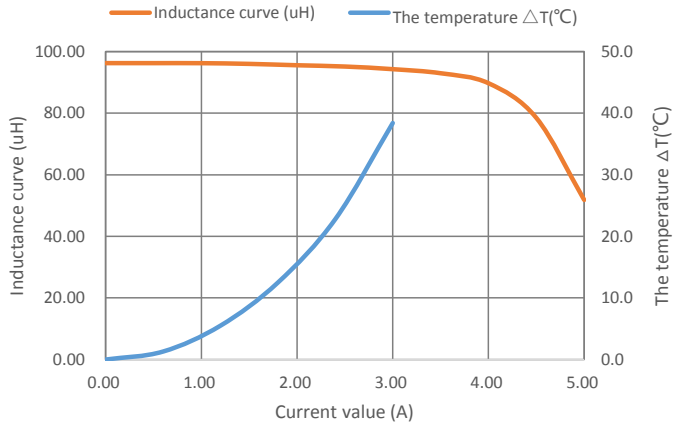
PA4320.153NLT



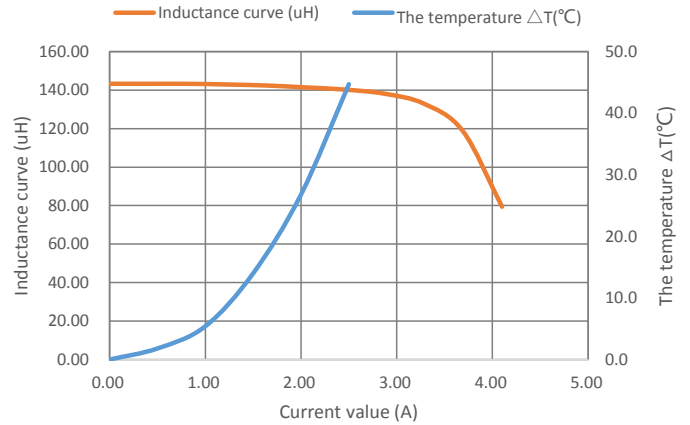
PA4320.473NLT



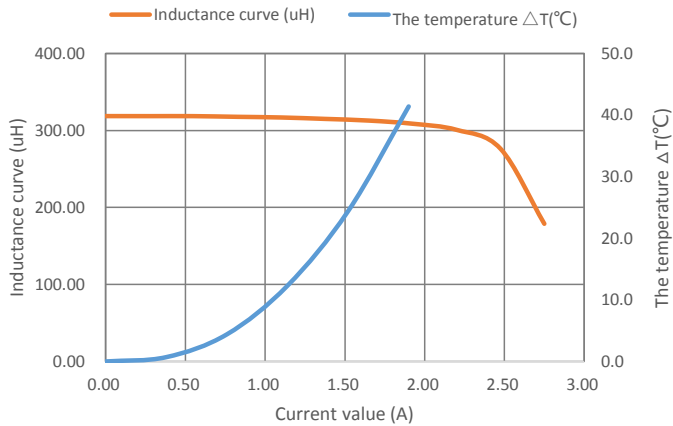
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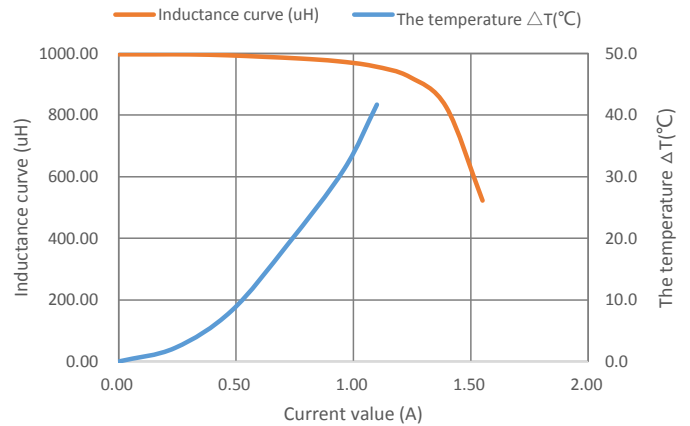
PA4320.154NLT



PA4320.334NLT



PA4320.105NLT

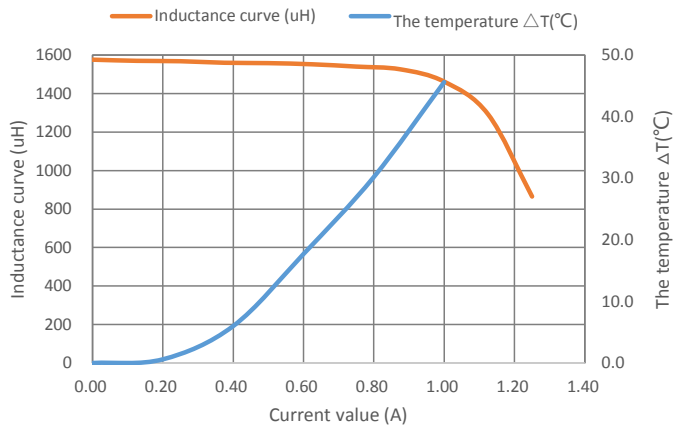


# Shielded Drum Core Inductor

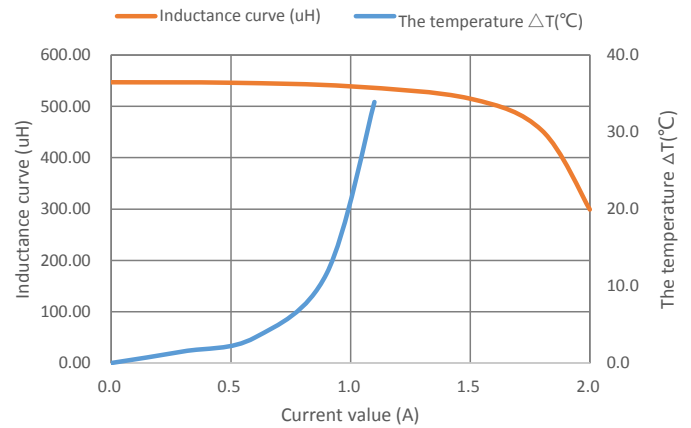
PA4320 Series



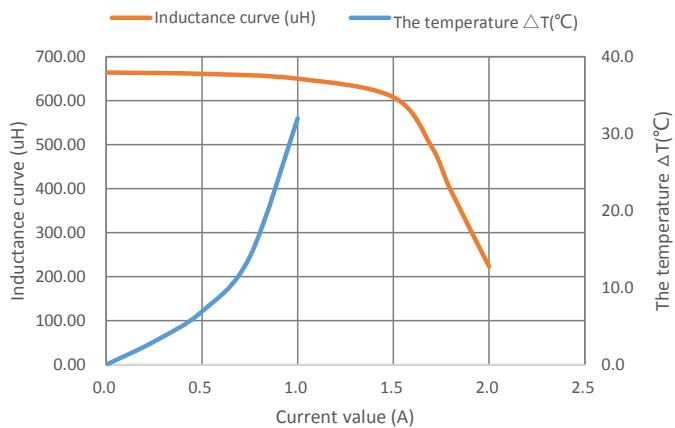
PA4320.155NLT



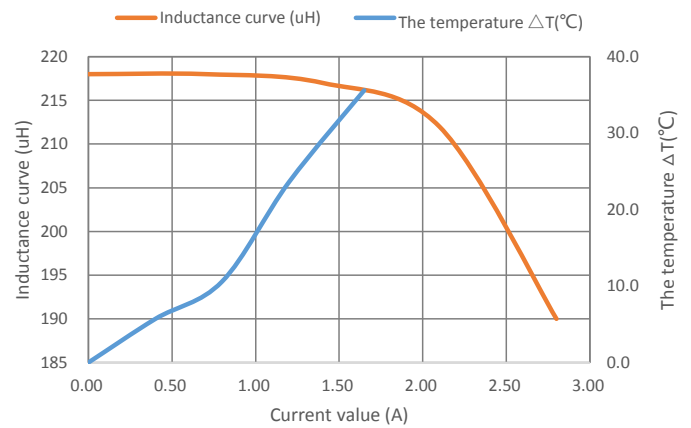
PA4320.564NLT



PA4320.684NLT



PA4320.224NLT



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