

PA4321.103NLT Datasheet

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DiGi Electronics Part Number	PA4321.103NLT-DG
Manufacturer	Pulse Electronics
Manufacturer Product Number	PA4321.103NLT
Description	FIXED IND 10UH 3.84A 23 MOHM SMD
Detailed Description	10 μ H Shielded Wirewound Inductor 3.84 A 23mOhm Max Nonstandard, Corner Terminals



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Purchase and inquiry

Manufacturer Product Number:

PA4321.103NLT

Series:

PA4321

Type:

Wirewound

Inductance:

10 μ H

Current Rating (Amps):

3.84 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):

3.08A

DC Resistance (DCR):

23mOhm 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):

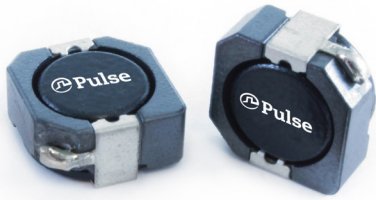
1 (Unlimited)





ECCN:

EAR99

Shielded Drum Core Inductor

PA4321 Series



-  **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

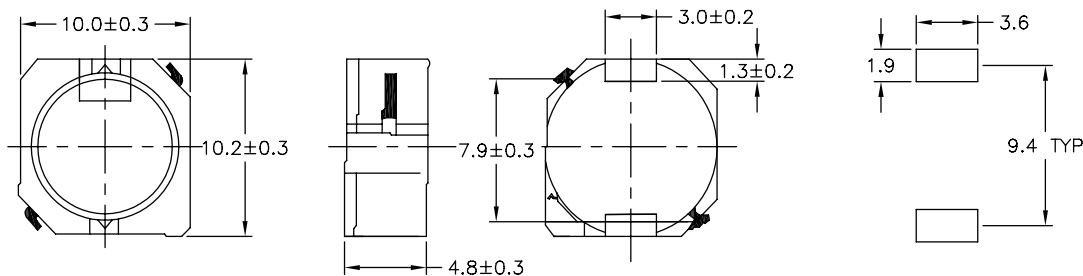
NOTES:

- 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

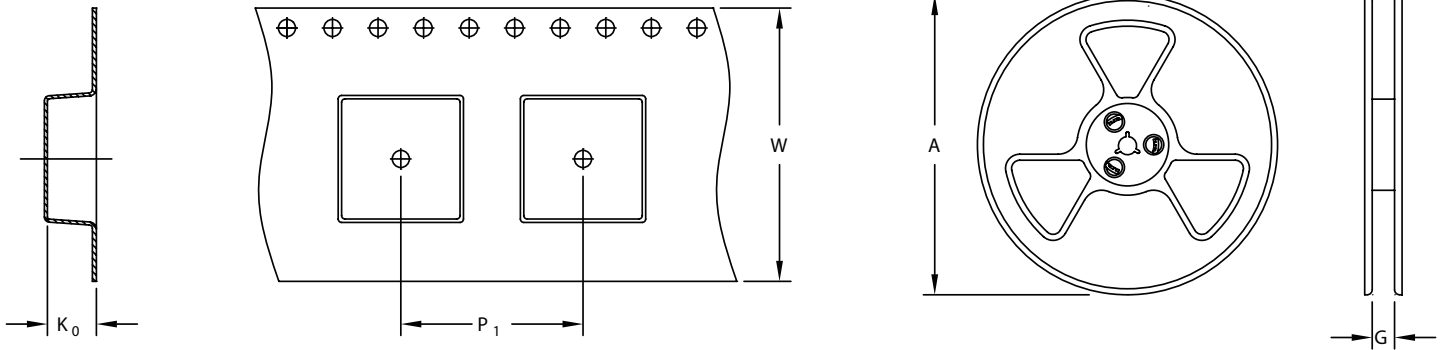
SUGGESTED LAYOUT

Shielded Drum Core Inductor

PA4321 Series



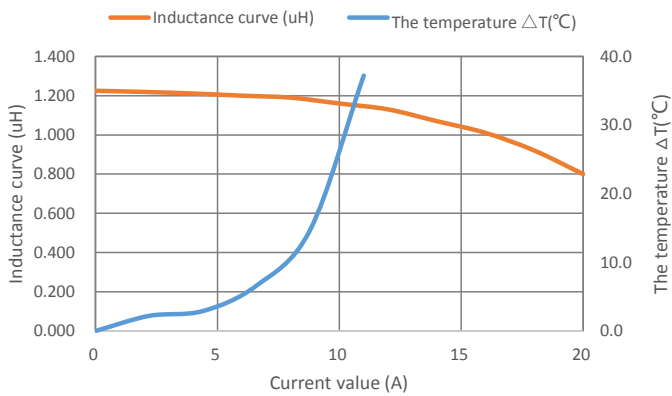
TAPE & REEL INFO



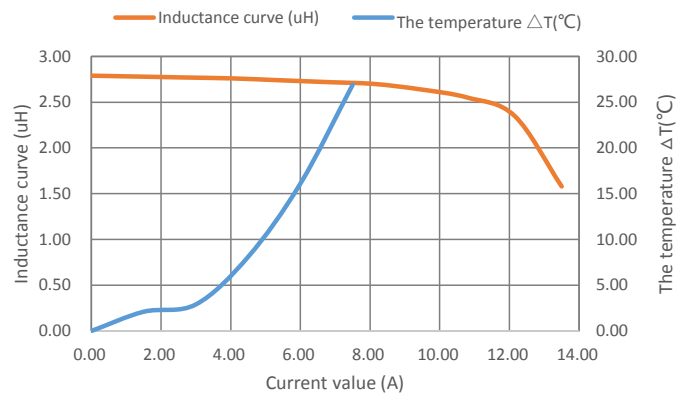
SURFACE MOUNTING TYPE, REEL/TAPE LIST						
TYPE	REEL SIZE (mm)		TAPE SIZE (mm)			QTY
	A	G	P1	W	K0	PCS/REEL
PA4321.XXXNLT	Ø330	24.5	16	24	5.4	750

Typical Performance Curves

PA4321.152NLT



PA4321.332NLT

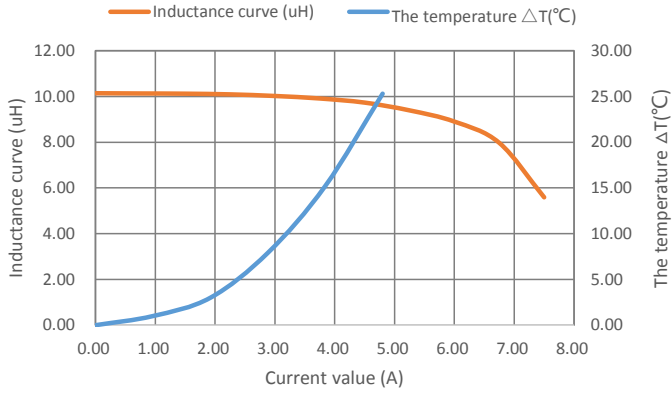


Shielded Drum Core Inductor

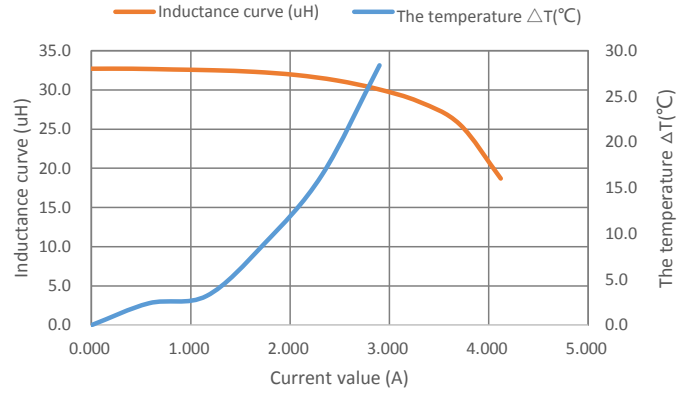
PA4321 Series



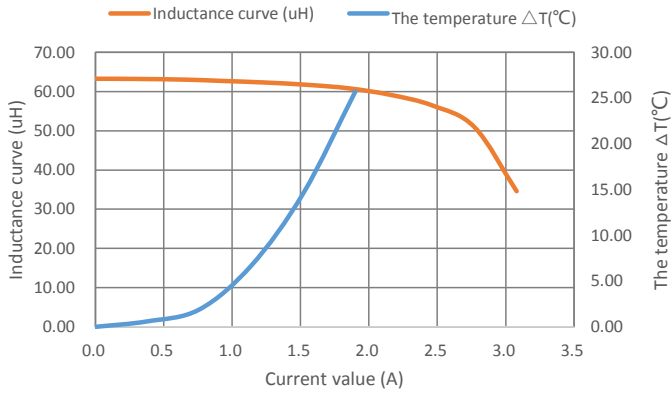
PA4321.103NLT



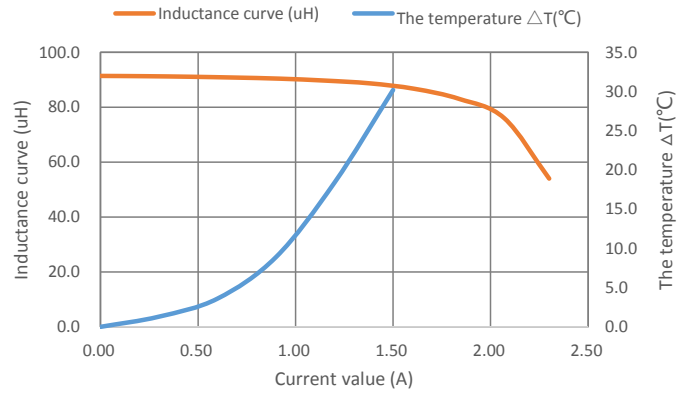
PA4321.333NLT



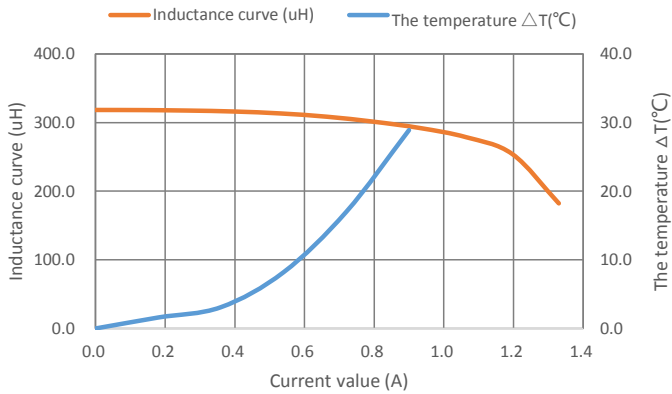
PA4321.683NLT



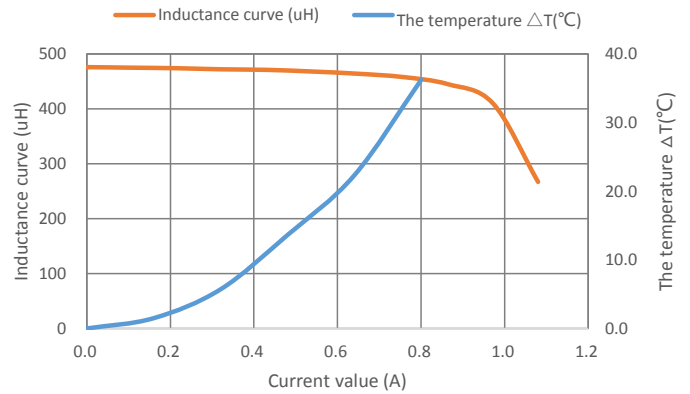
PA4321.104NLT



PA4321.334NLT



PA4321.474NLT



Shielded Drum Core Inductor

PA4321 Series



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