# **SMT Power Inductor**

Shielded Drum Core - PA4333.XXXNLT Series





📭 Height: 3.2mm Max

**Tootprint:** 7.4mm x 6.8mm Max

**Current Rating:** up to 14A

💶 Inductance Range: 0.22иН to 22иН

Shielded magnetic circuit reduces leakage flux, Fe base metal core enables high saturation and metalized core termination results in excellent shock resistance.

Electrical Specifications @ 25°C – Operating Temperature –40°C to +125°C											
	Inductance	Rated	Min. Self-Resonant	_	)C stance	Saturation Current	Heating Current $\triangle$ T $pprox$ 40 °C				
Part	1MHz, 1V	Current	Frequency	MAX.	TYP.	(20°C)					
Number	uH ±20%	A	MHz	mΩ	mΩ	A	A				
PA4333.221NLT	0.22	14.00	108	4.0	3.3	18.00	14.00				
PA4333.331NLT	0.33	12.40	78	5.1	4.3	17.00	12.40				
PA4333.471NLT	0.47	11.00	71	6.6	5.5	16.50	11.00				
PA4333.681NLT	0.68	9.50	57	8.7	7.3	12.80	9.50				
PA4333.751NLT	0.75	9.50	55	8.7	7.3	11.50	9.50				
PA4333.102NLT	1.0	9.50	41	8.7	7.3	9.50	9.50				
PA4333.152NLT	1.5	6.00	37	13.8	11.5	8.00	6.00				
PA4333.222NLT	2.2	5.65	24	18.0	15.0	6.50	5.65				
PA4333.332NLT	3.3	4.60	23	30.5	25.5	4.60	4.60				
PA4333.472NLT	4.7	3.80	15	43.5	36.5	3.80	3.80				
PA4333.682NLT	6.8	3.20	14	64.0	53.5	3.20	3.20				
PA4333.822NLT	8.2	3.10	13	69.0	58.0	3.20	3.10				
PA4333.103NLT	10	3.00	12	77.4	64.5	3.00	3.00				
PA4333.153NLT	15	2.50	11	127.0	106.0	3.00	2.50				
PA4333.223NLT	22	1.70	8	177.0	148.0	1.70	2.00				

#### Notes:

- 1. Actual temperature of the component during system operation (ambient plus temperature by rise) must be within the standard operating range.

  4. The heating current is the DC current required to raise the component temperature by approximately 40°C. Take note that the components' performance varies depending on
- 2. The rated current as listed is either the saturation current (@ 20°C) or the heating current ( $\Delta$  T  $\approx$  40°C) depending on which value is lower.
- 3. The saturation current is the current at which the initial inductance drops approximately 30% 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.
- 4. The heating current is the DC current required to raise the component temperature by approximately 40°C. Take note that the components' 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.
- 5. Maximum voltage across terminals to be limited to <40Vdc

USA 858 674 8100 Germany 49 2354 777 100 Singapore 65 6287 8998 Shanghai 86 21 62787060 China 86 755 33966678 Taiwan 886 3 4356768

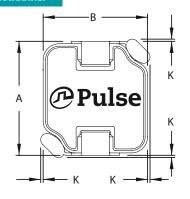
pulseelectronics.com P762.D (07/16)

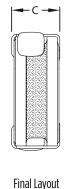
# **SMT Power Inductor**

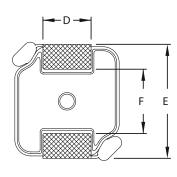
Shielded Drum Core - PA4333.XXXNLT Series

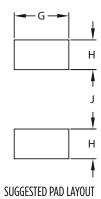
## **Mechanical**

### PA4333.XXXNLT





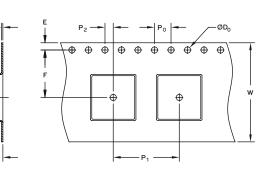


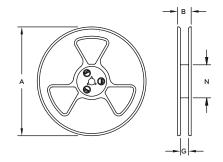


Series	A	В	С	D	E	F	G	H	J	K
PA4333.XXXNLT	7.4 MAX	6.8 MAX	3.2 MAX	(3.2)	(6.9)	(3.8)	(3.4)	(1.85)	(3.7)	0.5 MAX

All Dimensions in mm.

### **TAPE & REEL INFO**





SURFACE MOUNTING TYPE, REEL/TAPE LIST														
	REEL SIZE (mm)			TAPE SIZE (mm)									QTY	
	A	В	G	N	E	F	D <sub>o</sub>	<b>P</b> <sub>1</sub>	Po	P <sub>2</sub>	W	Ţ	K <sub>o</sub>	PCS/REEL
PA4333.XXXNLT	Ø330	22.4	16.4	100	1.75	7.5	1.5	12	4	2	16	0.40	3.6	1000

## For More Information

**Pulse Worldwide Headquarters** 12220 World Trade Drive San Diego, CA 92128 U.S.A.

Tel: 858 674 8100

Fax: 858 674 8262

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

Germany

**Pulse Europe** 

Am Rottland 12

Pulse Electronics GmbH

58540 Meinerzhagen

**Pulse China Headquarters** 

B402, Shenzhen Academy of Aerospace Technology Bldg. 10th Kejinan Road High-Tech Zone Nanshan District Shenzhen, PR China 518057 Tel: 86 755 33966678

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

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 6287 8998 **Pulse North Asia** 

3F, No. 198 Zhongyuan Road Zhongli City Taoyuan County 320 Taiwan R. O. C. Tel: 886 3 4356768 Fax: 886 3 4356823 (Pulse) Fax: 886 3 4356820 (FRE)

Performance warranty of products offered on this data sheet is limited to the parameters specified. Data is subject to change without notice. Other brand and product names mentioned herein may be trademarks or registered trademarks of their respective owners. © Copyright, 2016. Pulse Electronics, Inc. All rights reserved.



Fax: 86 755 33966700