Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

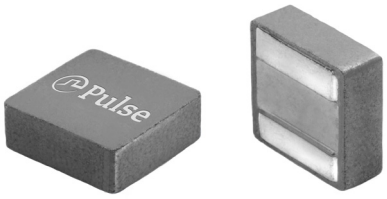
We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

SMT Power Inductor

High Current Molded Power Inductor - PA5001.XXXNLT Series



- ***Height:*** *2.1mm Max*
- ***Footprint:*** *4.3mm x 4.3mm Max*
- ***Current Rating:*** *up to 38Apk*
- ***Inductance Range****: 0.10uH to 1.8uH*
- *High current, low DCR, and high efficiency*
- *High reliability*
- *Minimized acoustic noise and minimized leakage flux noise*

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

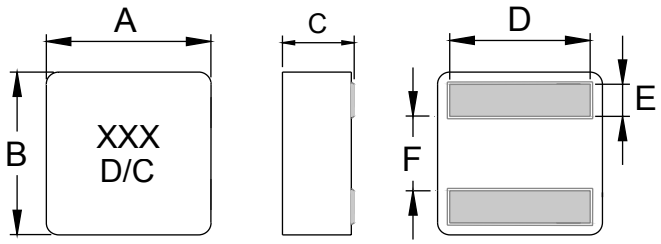
Part Number	Inductance 100KHz, 0.1V	Rated Current	DC Resistance		Saturation Current (25C)
			TYP.	MAX.	
	uH±20%	A	mΩ	mΩ	A
PA5001.101NLT	0.10	18.00	2.20	2.42	38.00
PA5001.221NLT	0.22	16.80	4.10	4.60	19.5
PA5001.361NLT	0.36	14.50	5.60	6.30	17.00
PA5001.401NLT	0.40	14.00	6.90	7.73	15.50
PA5001.561NLT	0.56	12.00	8.40	9.30	14.00
PA5001.721NLT	0.72	10.50	10.40	11.60	12.00
PA5001.102NLT	1.00	9.60	13.30	14.60	9.6
PA5001.122NLT	1.20	9.00	16.20	17.90	9.0
PA5001.152NLT	1.50	7.60	21.00	23.50	8.0
PA5001.182NLT	1.80	7.00	25.00	28.00	7.5

Notes:

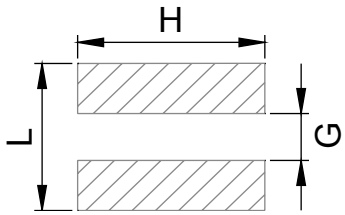
1. Actual temperature of the component during system operation (ambient plus temperature rise) must be within the standard operating range.
2. The saturation current is the current at which the initial inductance drops approximately 30% at the stated ambient temperature. This current is determined by placing the compnent in the specified ambient environment and applying a short duration pulse current (to eliminate self-heating effect) to the component.
3. The rated current is the DC current required to raise the component temperature by approximately 40°C. Take note that the components' performanc 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.
4. The part temperature (ambient+temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

Mechanical

PA5001.XXXNLT



FINAL LAYOUT

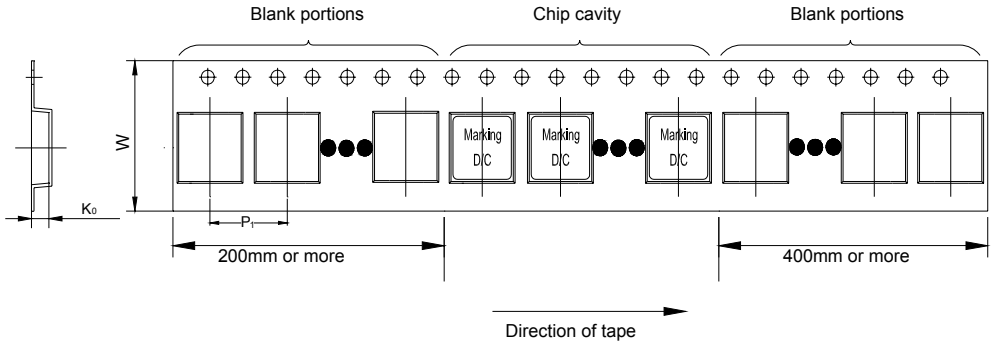


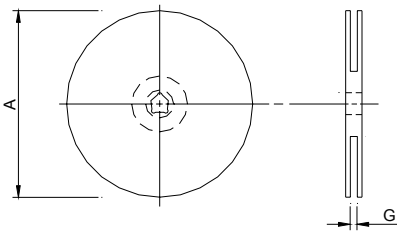
SUGGESTED PAD LAYOUT

Series	Mechanical	A	B	C	D	E	F	L	G	H
PA5001.XXXNLT	N/A	4.1±0.2	4.1±0.2	1.9±0.2	3.4±0.3	0.88±0.2	1.6±0.25	3.4 (REF)	1.4 (REF)	3.8 (REF)

All Dimensions in mm.

TAPE & REEL INFO

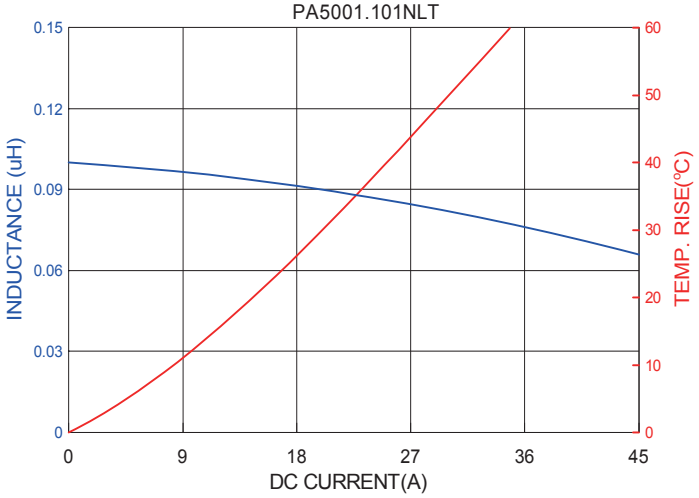




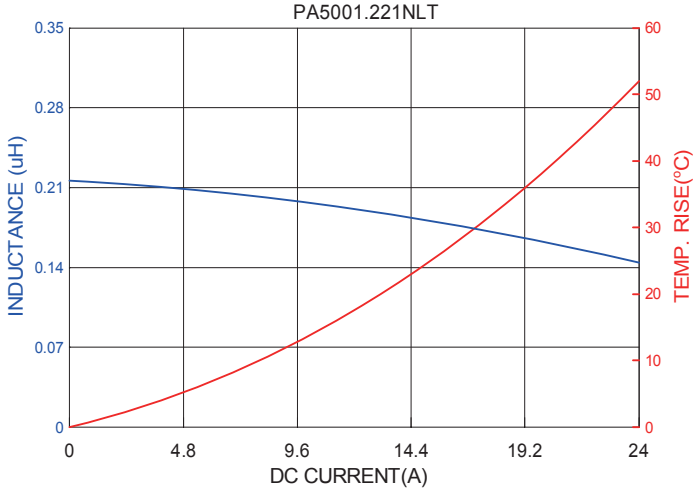
SURFACE MOUNTING TYPE, REEL/TAPE LIST						
	REEL SIZE (mm)		TAPE SIZE (mm)			QTY
	A	G	P_1	W	K_0	PCS/REEL
PA5001.XXXNLT	Ø330	12.4	8	12	2.3	3000

Typical Performance Curves

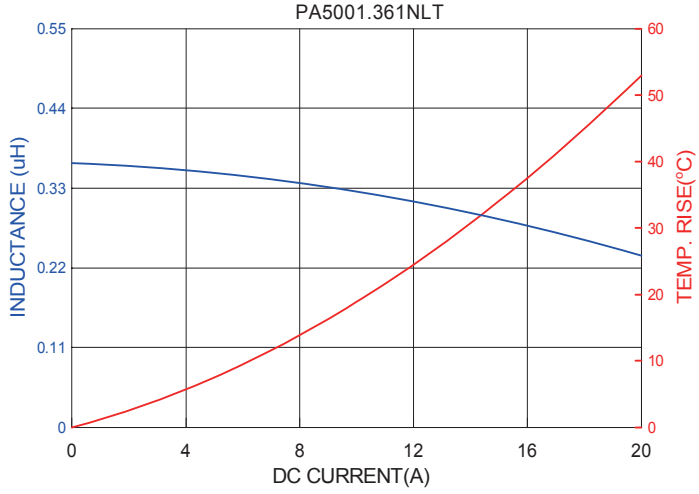
PA5001.101NLT



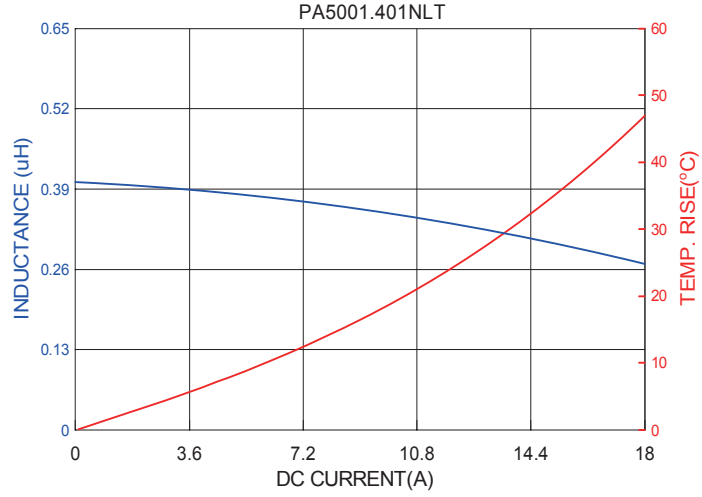
PA5001.221NLT



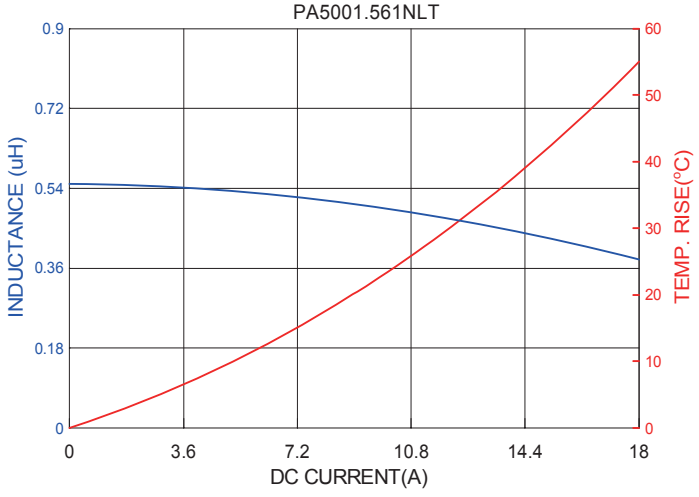
PA5001.361NLT



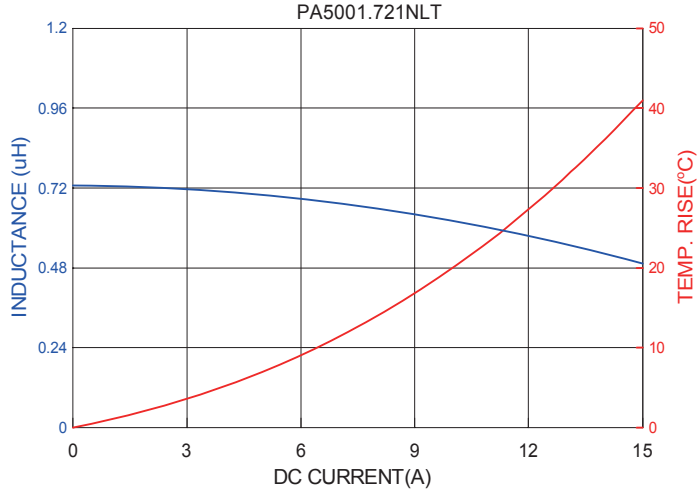
PA5001.401NLT



PA5001.561NLT

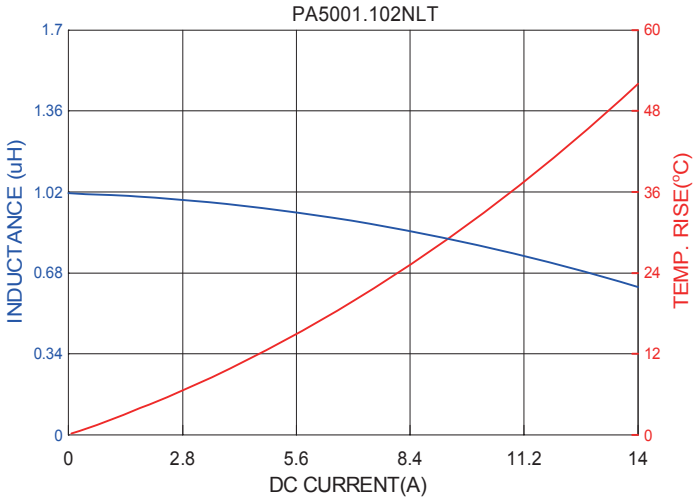


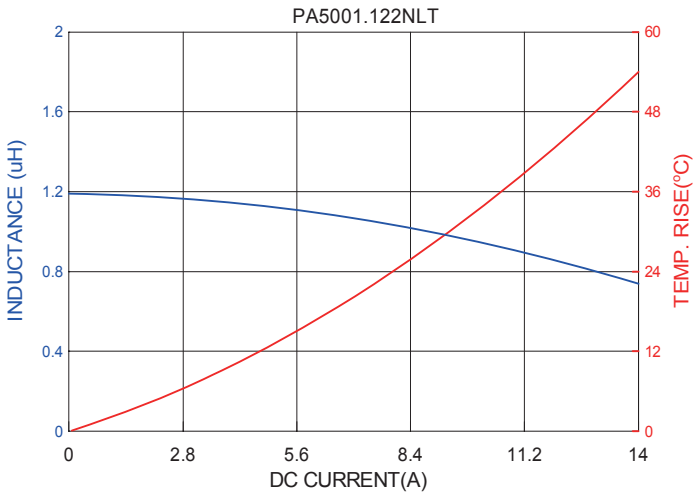
PA5001.721NLT

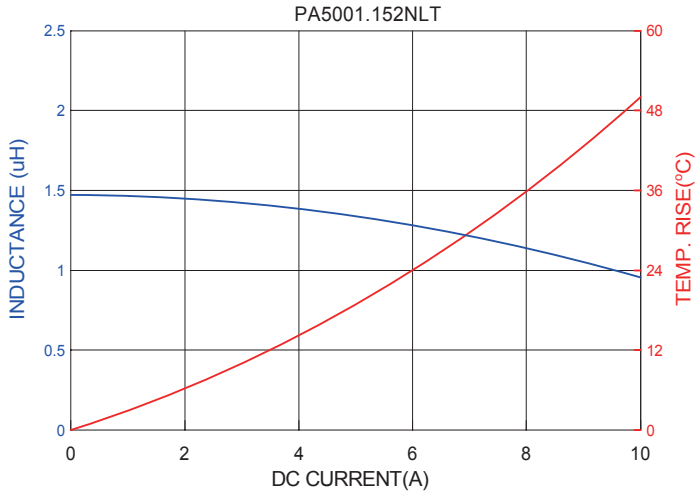


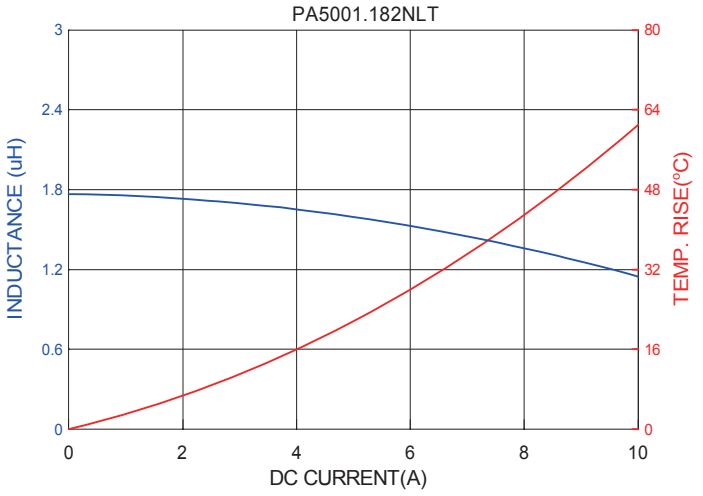
SMT Power Inductor

High Current Molded Power Inductor - PA5001.XXXNLT 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
3 Fraser Street
0428 DUO Tower
Singapore 189352

Tel: 65 6287 8998
Fax: 65 6280 0080

Pulse North Asia
1F, No.111
Xiyuan Road
Zhongli District
Taoyuan City 32057
Taiwan (R.O.C)

Tel: 886 3 4356768
Fax: 886 3 4356820