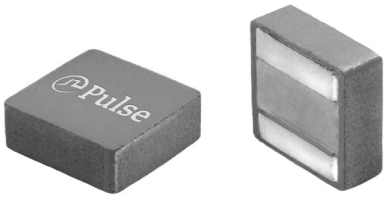
SMT Power Inductor

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

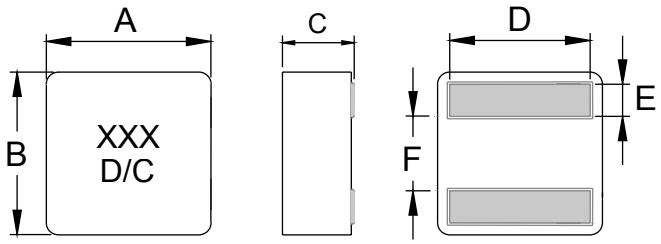
Part Number	Inductance 100KHz, 0.1V	Rated Current	DC Resistance		Saturation Current (25C)
			TYP.	MAX.	
	uH±20%	A	mΩ	mΩ	A
PA5001.101NLT	0.10	18.00	2.20	2.42	38.00
PA5001.221NLT	0.22	16.80	4.10	4.60	19.5
PA5001.361NLT	0.36	14.50	5.60	6.30	17.00
PA5001.401NLT	0.40	14.00	6.90	7.73	15.50
PA5001.561NLT	0.56	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:

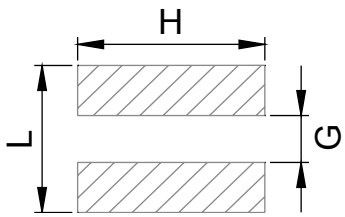
1. Actual temperature of the component during system operation (ambient plus temperature rise) must be within the standard operating range.
2. The saturation current is the current at which the initial inductance drops approximately 30% at the stated ambient temperature. This current is determined by 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

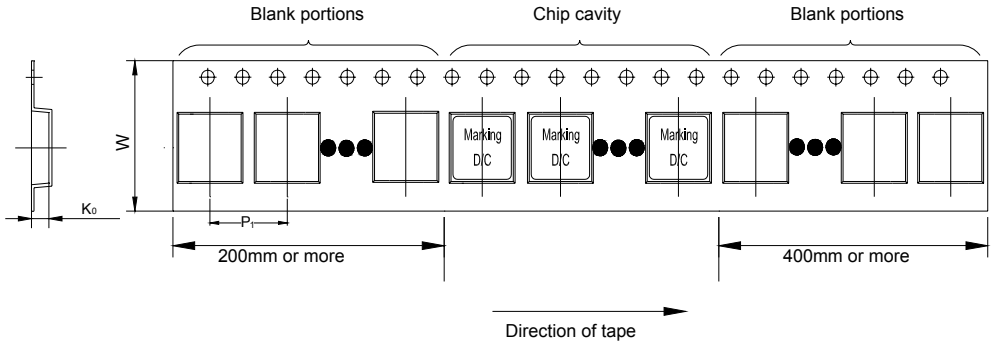


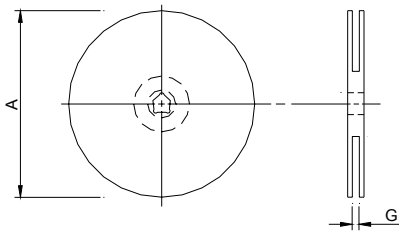
SUGGESTED PAD LAYOUT

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

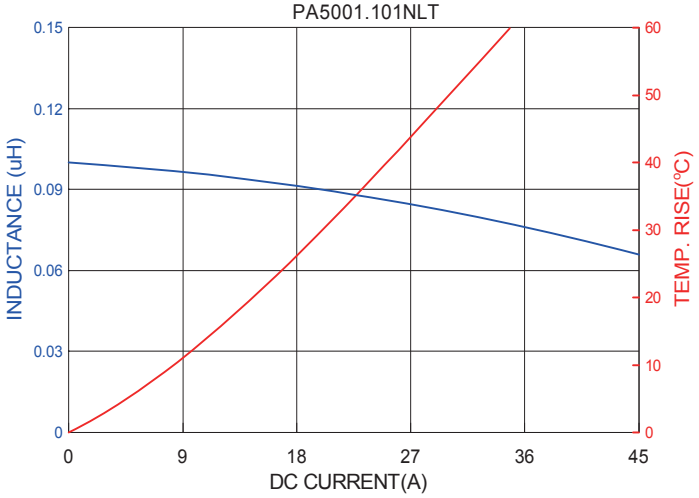




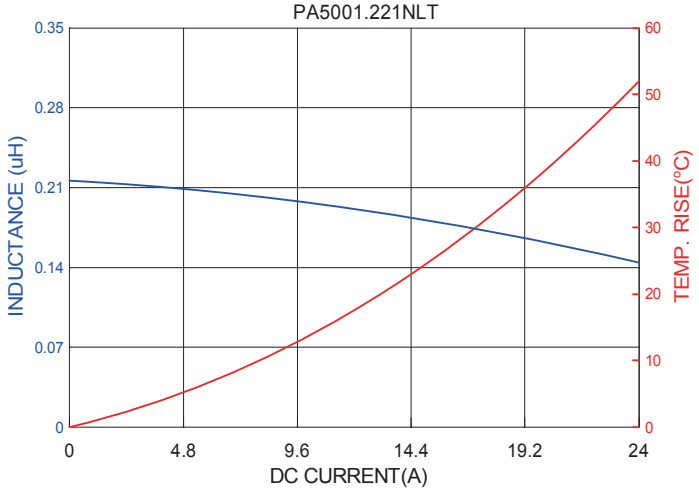
SURFACE MOUNTING TYPE, REEL/TAPE LIST						
	REEL SIZE (mm)		TAPE SIZE (mm)			QTY
	A	G	P_1	W	K_0	PCS/REEL
PA5001.XXXNLT	Ø330	12.4	8	12	2.3	3000

Typical Performance Curves

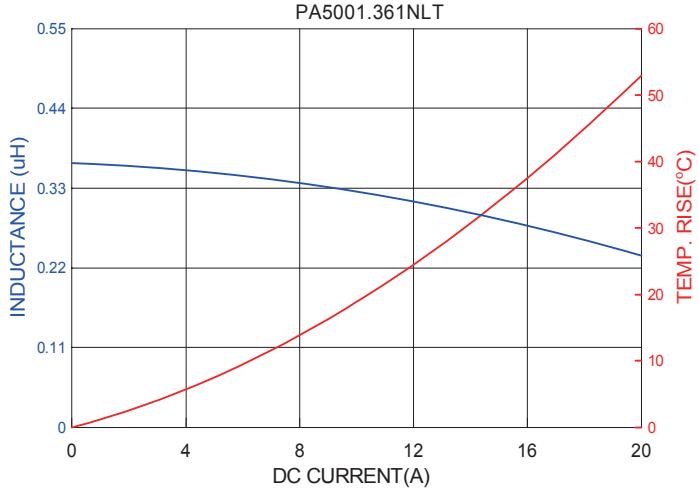
PA5001.101NLT



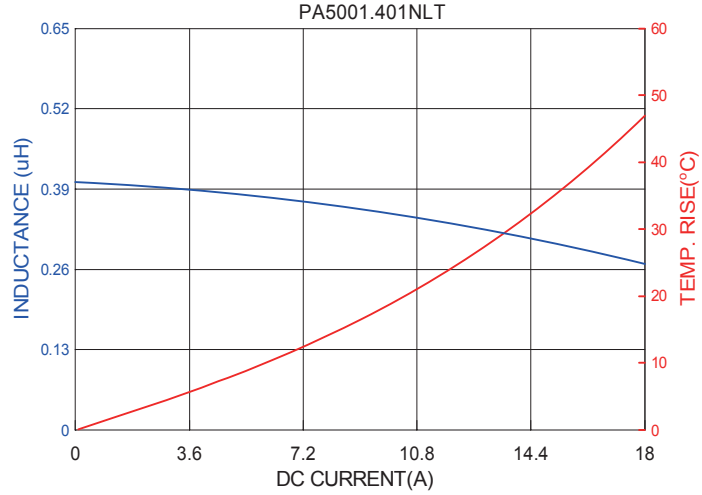
PA5001.221NLT



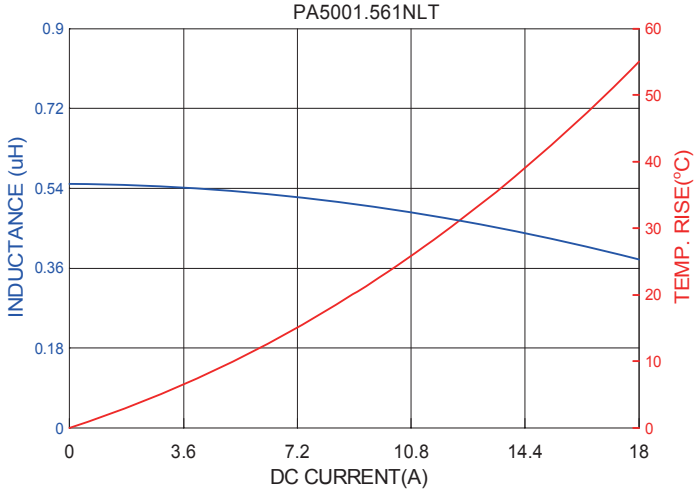
PA5001.361NLT



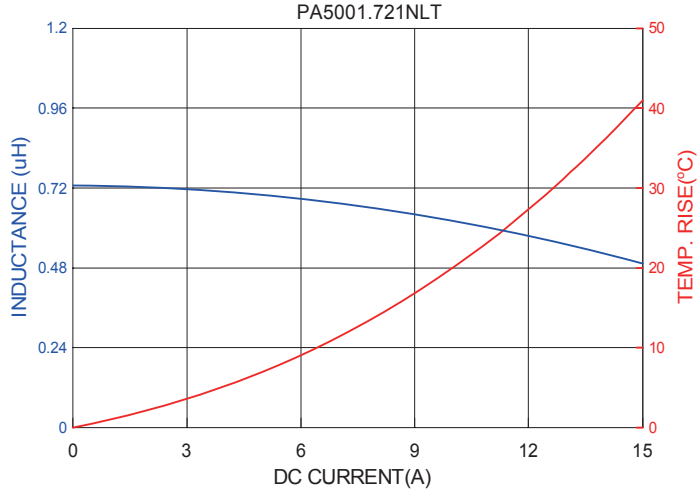
PA5001.401NLT



PA5001.561NLT



PA5001.721NLT



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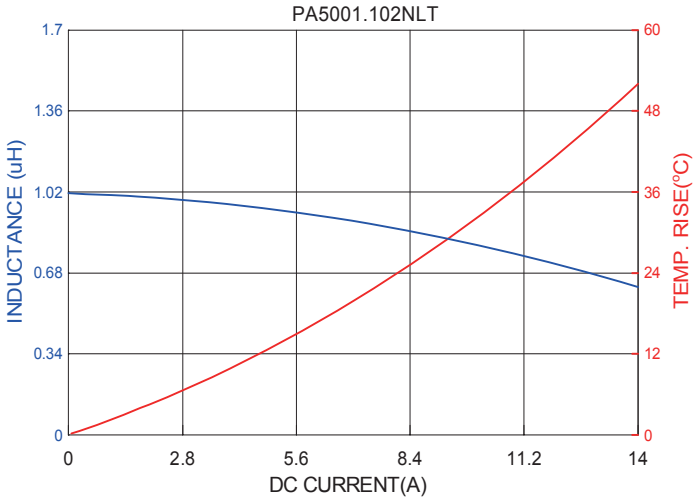

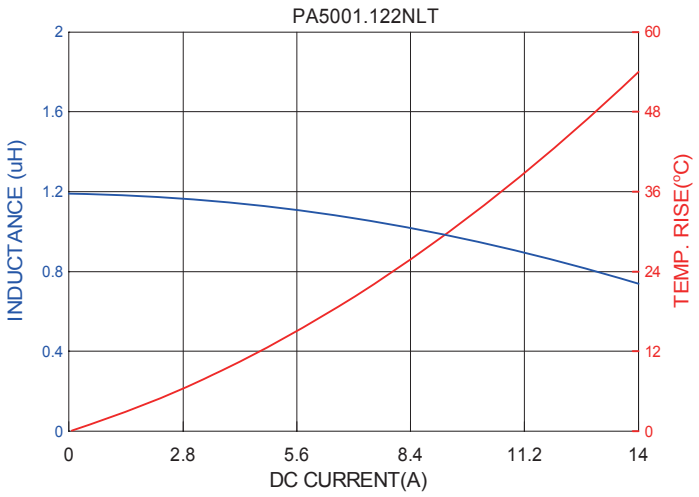

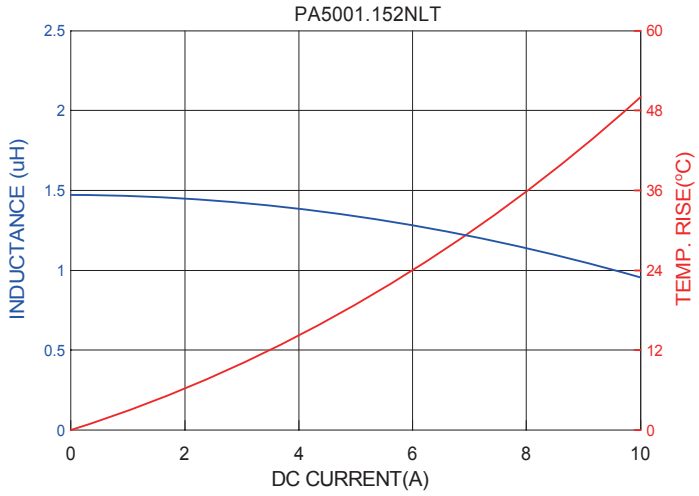

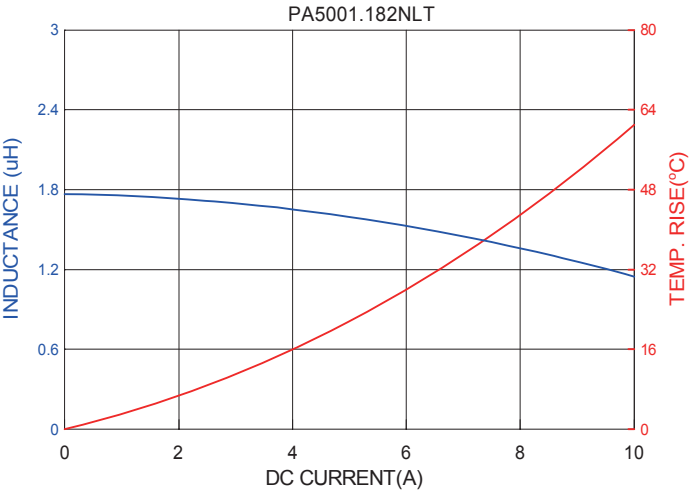

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