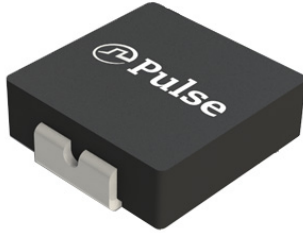


SMT Power Inductor

High Current Molded Power Inductor - PA4345.XXXNLT Series



- Height:** 2.0mm Max
- Footprint:** 6.0mm x 5.4mm Max
- Current Rating:** up to 18.0A
- Inductance Range:** 0.1uH to 1.5uH
- Shielded construction and compact design
- High current, low DCR, and high efficiency
- Minimized acoustic noise and minimized leakage flux
- 200Vdc Isolation between terminal and core

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

Part Number	Inductance 100KHz, 1V uH	Rated Current A	DC Resistance		Saturation Current Max. A
			MAX.	TYP.	
			mΩ	mΩ	
PA4345.101NLT	0.10±30%	18.0	4.0	3.6	45.0
PA4345.151NLT	0.15±30%	16.0	4.6	3.8	27.0
PA4345.221NLT	0.22±20%	15.0	5.5	4.0	25.0
PA4345.241NLT	0.24±20%	13.0	7.0	6.0	23.0
PA4345.331NLT	0.33±20%	12.0	7.3	6.3	21.3
PA4345.471NLT	0.47±20%	11.5	8.6	7.3	18.0
PA4345.681NLT	0.68±20%	10.0	12.4	11.0	12.8
PA4345.102NLT	1.0±20%	7.0	20.0	17.5	13.7
PA4345.122NLT	1.2±20%	6.2	28.0	23.0	11.0
PA4345.152NLT	1.5±20%	5.5	30.5	26.5	9.8

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 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.
- The rated 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.
- 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.

USA 858 674 8100

Germany 49 2354 777 100

Singapore 65 6287 8998

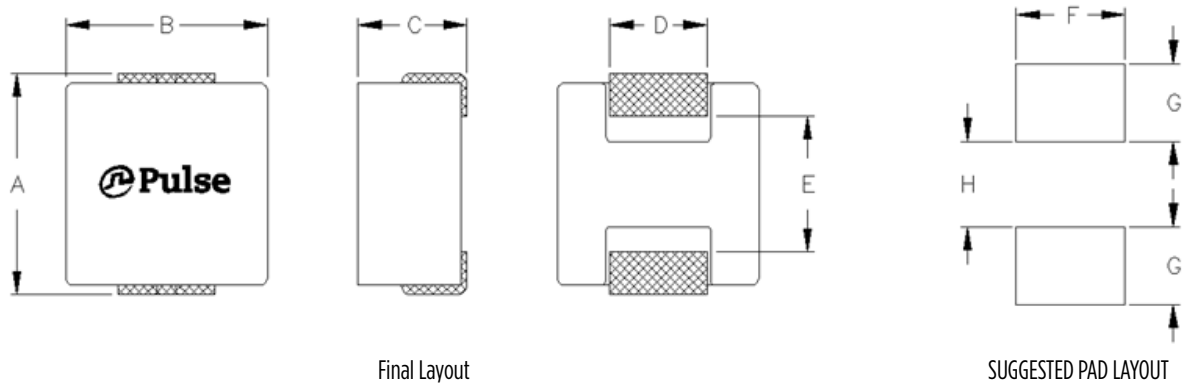
Shanghai 86 21 62787060

China 86 755 33966678

Taiwan 886 3 4356768

Mechanical

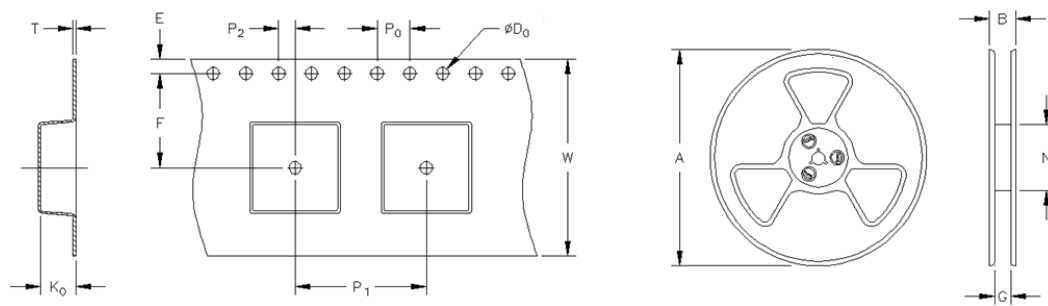
PA4345.XXXNLT



Series	A	B	C	D	E	F	G	H
PA4345.XXXNLT	6.0 Max	5.4 Max	2.0 Max	(2.5)	(3.5)	(2.8)	(2.0)	(2.2)

All Dimensions in mm.

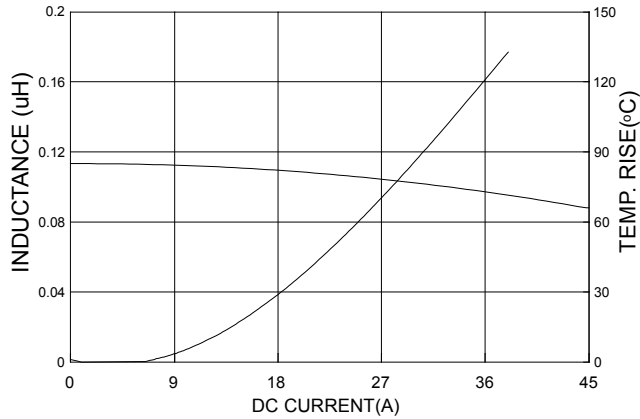
TAPE & REEL INFO



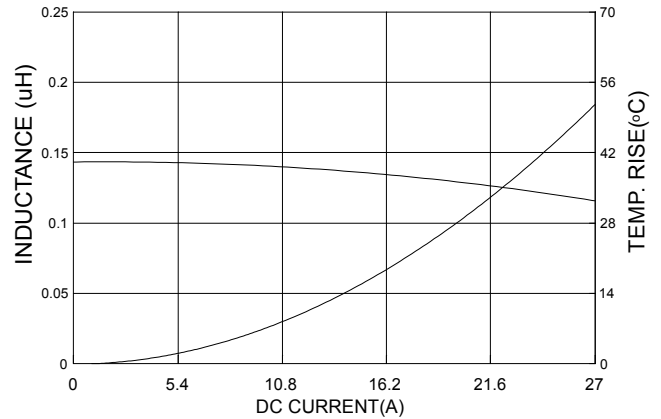
SURFACE MOUNTING TYPE, REEL/TAPE LIST														
	REEL SIZE (mm)				TAPE SIZE (mm)									QTY
	A	B	G	N	E	F	D ₀	P ₁	P ₀	P ₂	W	T	K ₀	PCS/REEL
PA4345.XXXNLT	Ø330	N/A	12	100	1.75	5.5	1.5	8	4	2	12	0.35	2.3	3000

Typical Performance Curves

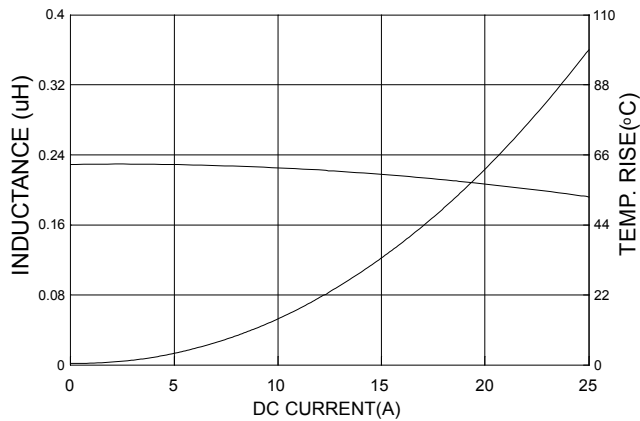
PA4345.101NLT



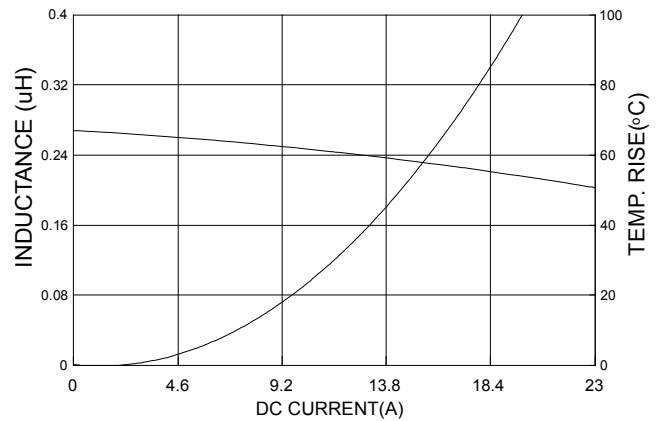
PA4345.151NLT



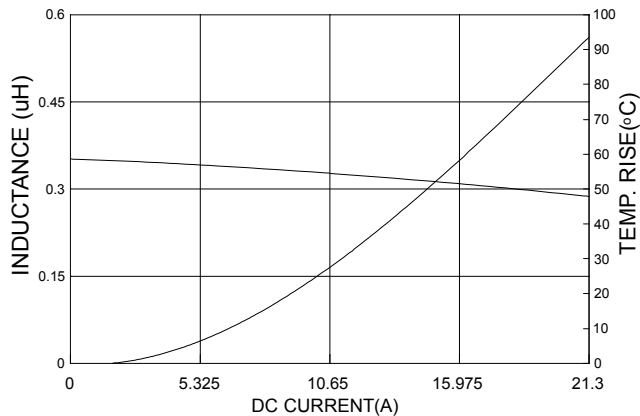
PA4345.221NLT



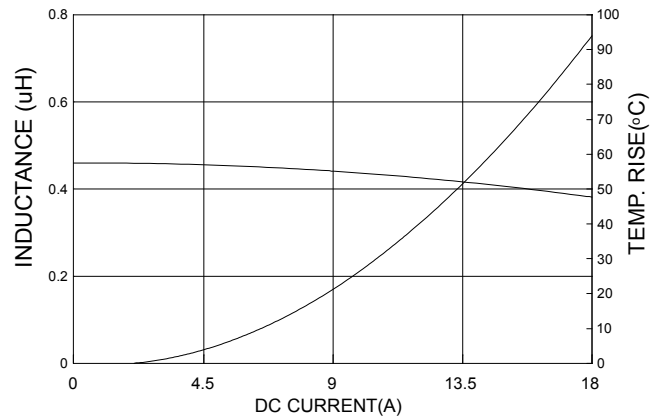
PA4345.241NLT



PA4345.331NLT



PA4345.471NLT

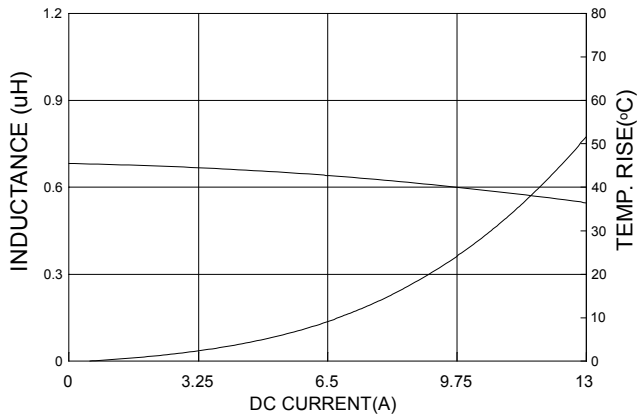


SMT Power Inductor

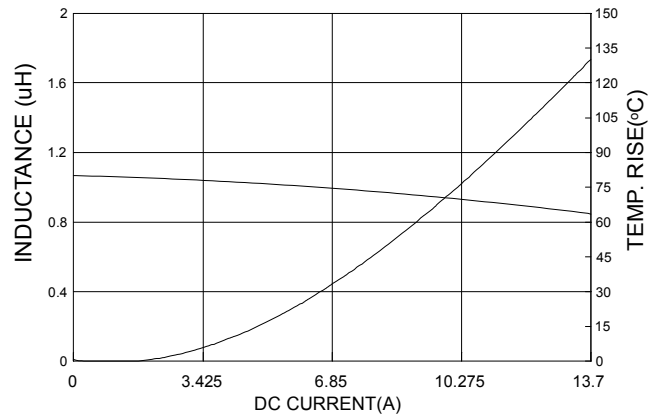
High Current Molded Power Inductor - PA4345.XXXNLT Series



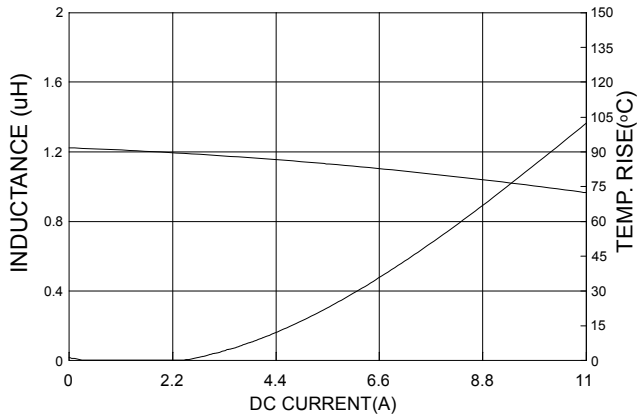
PA4345.681NLT



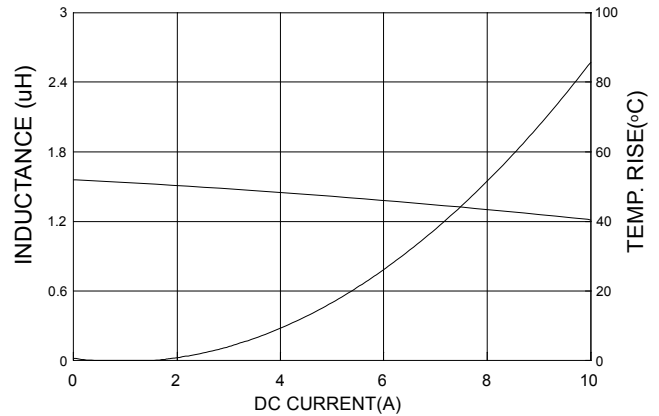
PA4345.102NLT



PA4345.122NLT



PA4345.152NLT



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- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



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