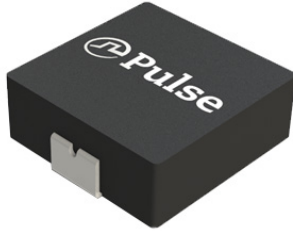


SMT Power Inductor

High Current Molded Power Inductor - PA4342.XXXNLT Series



- Height:** 4.0mm Max
- Footprint:** 11.5mm x 10.3mm Max
- Current Rating:** up to 43.0A
- Inductance Range:** 0.15uH to 68.0uH
- 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	Mechanical
			MAX.	TYP.		
			mΩ	mΩ		
PA4342.151NLT	0.15±30%	43.0	0.6	0.5	75.0	Footprint 1
PA4342.221NLT	0.22±20%	35.0	1.0	0.8	60.0	Footprint 1
PA4342.271NLT	0.27±20%	33.0	1.0	0.82	60.0	Footprint 1
PA4342.361NLT	0.36±20%	31.0	1.2	1.05	60.0	Footprint 1
PA4342.391NLT	0.39±20%	30.0	1.3	1.1	60.0	Footprint 1
PA4342.451NLT	0.45±20%	29.0	1.5	1.3	45.0	Footprint 1
PA4342.471NLT	0.47±20%	28.0	1.5	1.3	43.0	Footprint 1
PA4342.561NLT	0.56±20%	25.0	1.8	1.6	40.0	Footprint 1
PA4342.681NLT	0.68±20%	22.0	2.7	2.4	39.0	Footprint 1
PA4342.102NLT	1.00±20%	18.0	3.3	3.0	36.0	Footprint 1
PA4342.122NLT	1.20±20%	17.0	3.8	3.3	33.0	Footprint 1
PA4342.152NLT	1.50±20%	16.0	4.6	4.0	33.0	Footprint 2
PA4342.222NLT	2.20±20%	12.0	7.0	6.5	27.0	Footprint 2
PA4342.252NLT	2.50±20%	11.5	8.7	7.9	23.0	Footprint 2
PA4342.332NLT	3.30±20%	11.0	11.8	10.8	20.0	Footprint 2
PA4342.402NLT	4.00±20%	10.2	15.0	13.0	18.0	Footprint 2
PA4342.472NLT	4.70±20%	10.0	15.5	15.0	17.0	Footprint 2
PA4342.562NLT	5.60±20%	9.0	19.3	17.0	14.0	Footprint 2
PA4342.682NLT	6.80±20%	8.5	23.3	17.5	13.5	Footprint 2

USA 858 674 8100

Germany 49 2354 777 100

Singapore 65 6287 8998

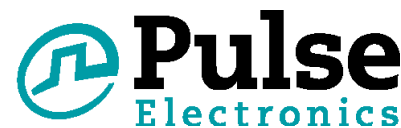
Shanghai 86 21 62787060

China 86 755 33966678

Taiwan 886 3 4356768

SMT Power Inductor

High Current Molded Power Inductor - PA4342.XXXNLT Series



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

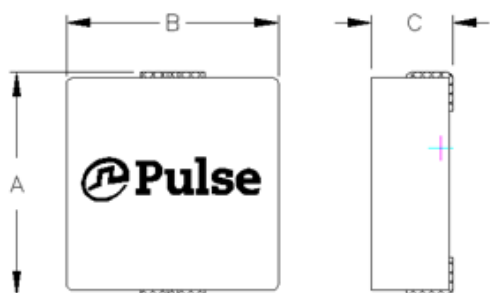
Part Number	Inductance 100KHz, 1V uH	Rated Current A	DC Resistance		Saturation Current Max. A	Mechanical
			MAX.	TYP.		
			mΩ	mΩ		
PA4342.822NLT	8.20±20%	8.0	25.5	20.0	12.5	Footprint 2
PA4342.103NLT	10.0±20%	7.5	30.0	27.0	12.0	Footprint 2
PA4342.153NLT	15.0±20%	6.25	45.0	40.0	10.0	Footprint 2
PA4342.223NLT	22.0±20%	5.0	74.0	64.0	7.0	Footprint 2
PA4342.273NLT	27.0±20%	4.0	100.0	86.0	6.0	Footprint 2
PA4342.333NLT	33.0±20%	3.5	112.0	92.0	5.0	Footprint 2
PA4342.473NLT	47.0±20%	3.0	167.0	145.0	4.5	Footprint 2
PA4342.683NLT	68.0±20%	2.0	240.0	205.0	3.0	Footprint 2

Notes:

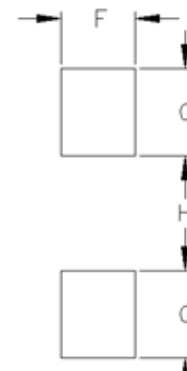
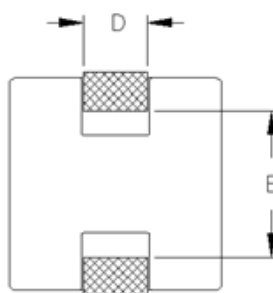
1. Actual temperature of the component during system operation (ambient plus temperature rise) must be within the standard operating range.
2. The saturation current is the current at which the initial inductance drops approximately 30% at the stated ambient temperature. This current is determined by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

PA4342.XXXNLT



Final Layout



SUGGESTED PAD LAYOUT

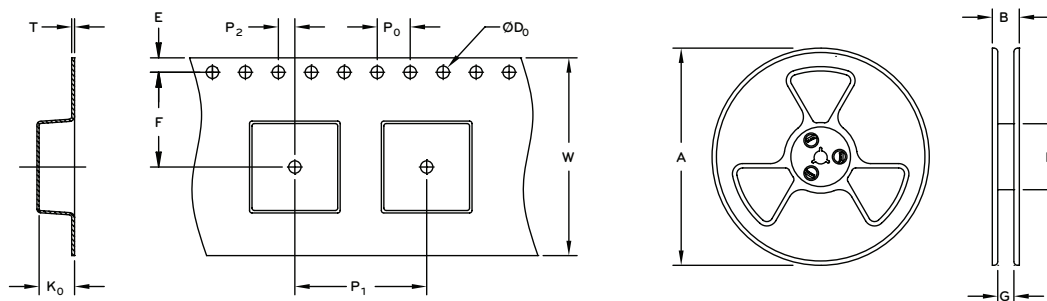
Series	Mechanical	A	B	C	D	E	F	G	H
PA4342.XXXNLT	Footprint 1	11.5 Max	10.3 Max	4.0 Max	(2.5)	(6.4)	(3.0)	(4.1)	(5.4)
PA4342.XXXNLT	Footprint 2	11.5 Max	10.3 Max	4.0 Max	(3.0)	(6.4)	(3.5)	(4.1)	(5.4)

All Dimensions in mm.

SMT Power Inductor

High Current Molded Power Inductor - PA4342.XXXNLT Series

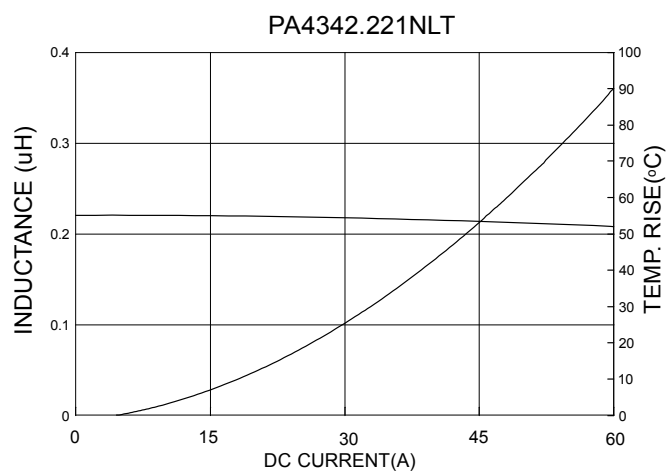
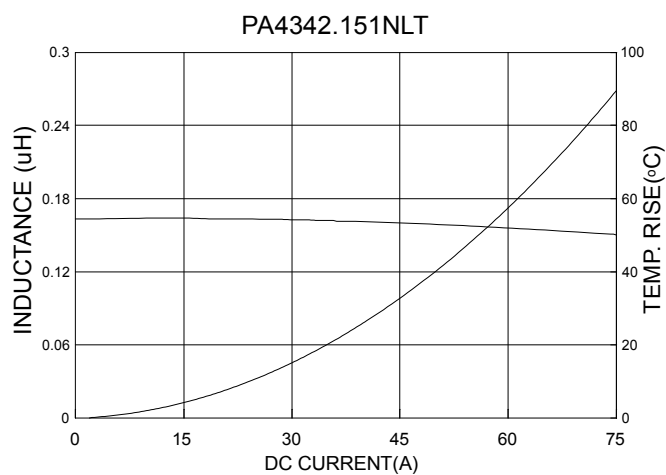
TAPE & REEL INFO



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
PA4342.XXXNLT	Ø330	N/A	24	100	1.75	11.5	1.5	16	4	2	24	0.35	4.5	500

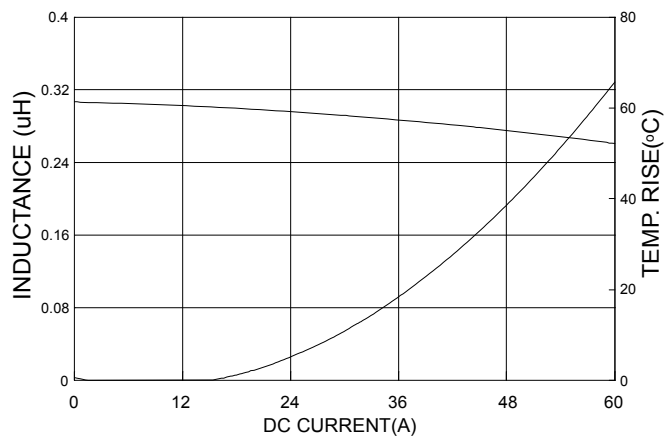
Typical Performance Curves



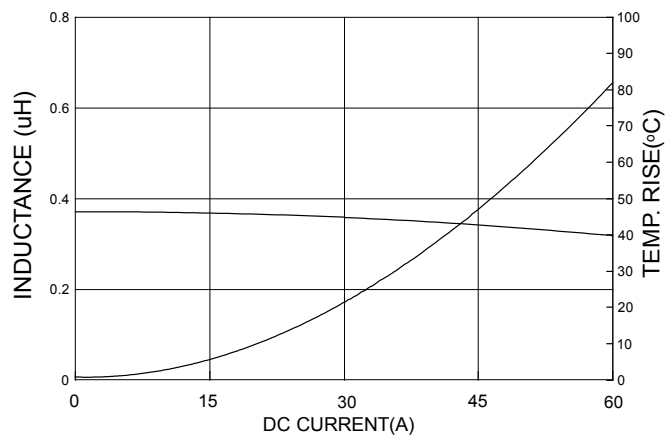
SMT Power Inductor

High Current Molded Power Inductor - PA4342.XXXNLT Series

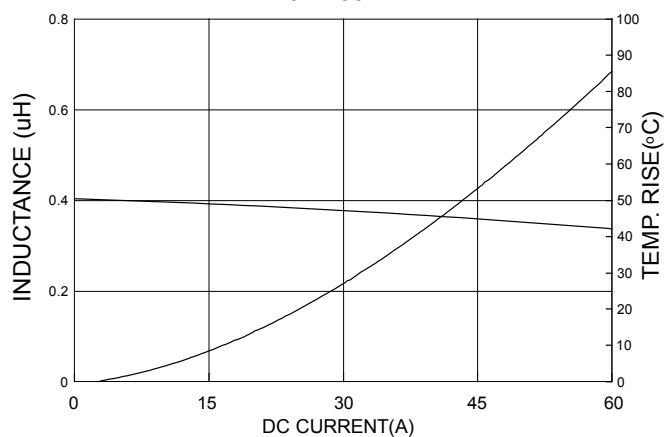
PA4342.271NLT



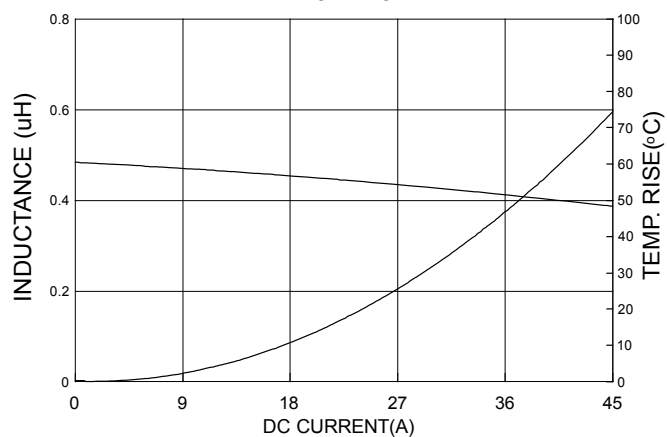
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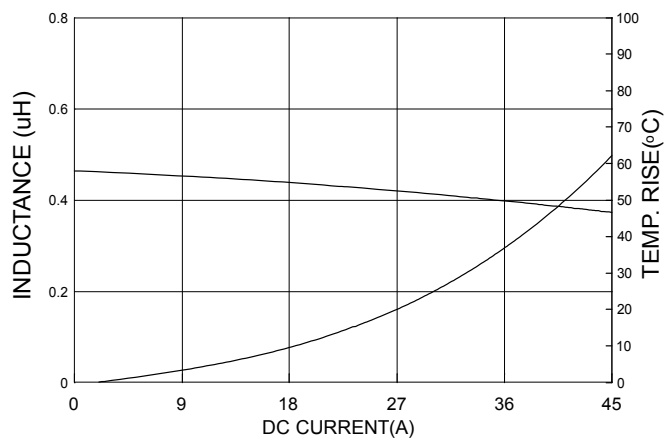
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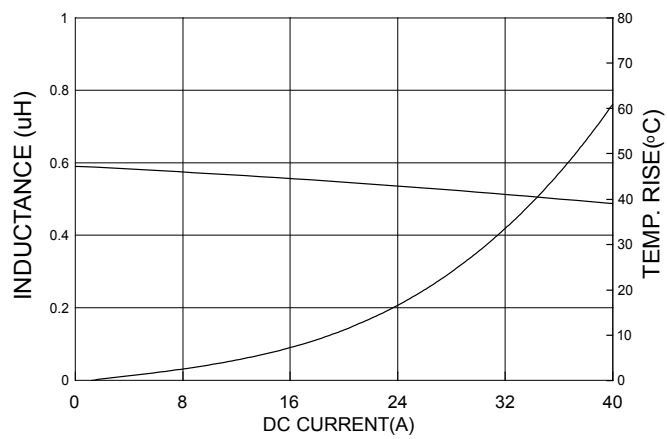
PA4342.451NLT



PA4342.471NLT



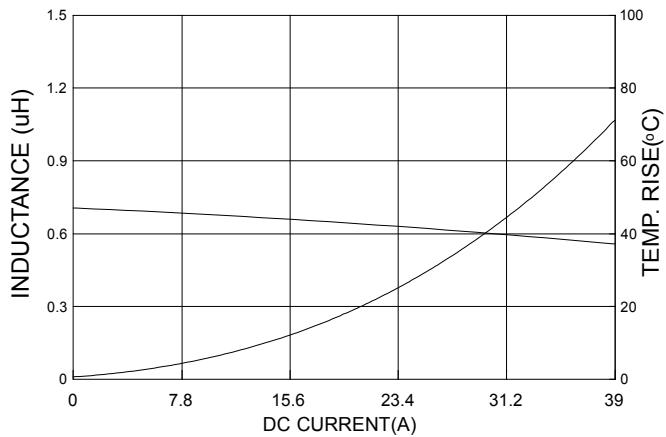
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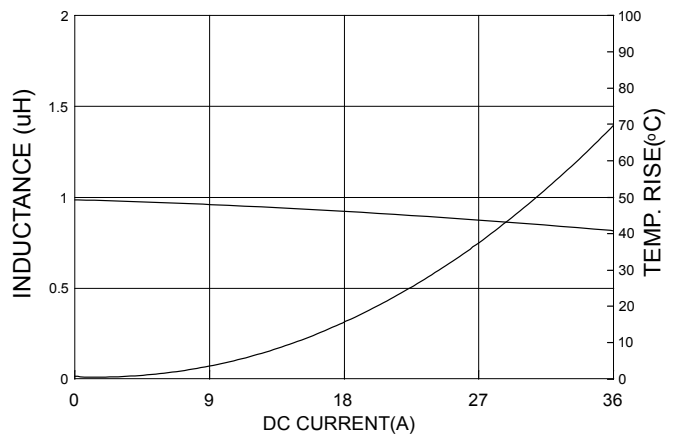
SMT Power Inductor

High Current Molded Power Inductor - PA4342.XXXNLT Series

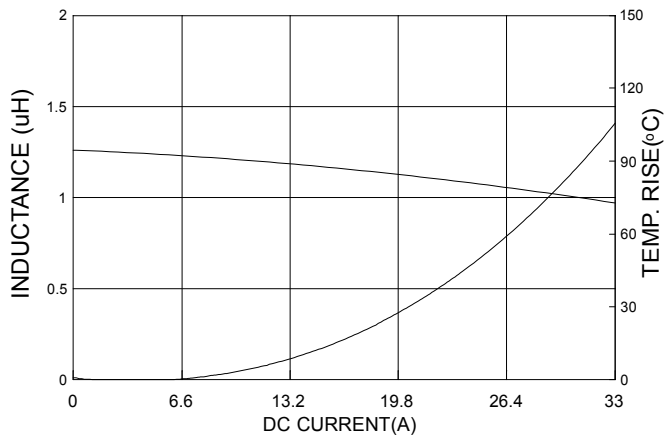
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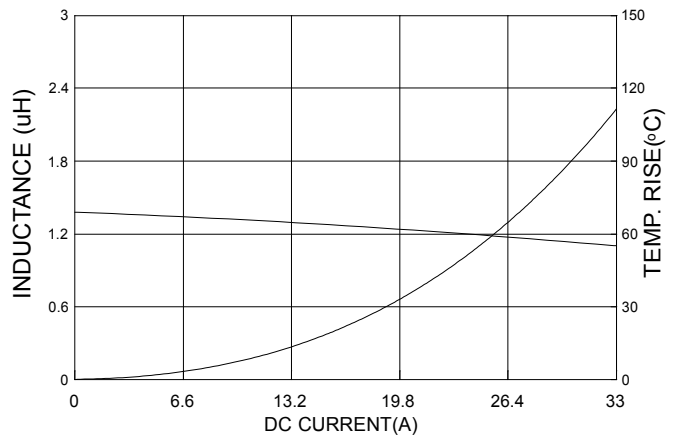
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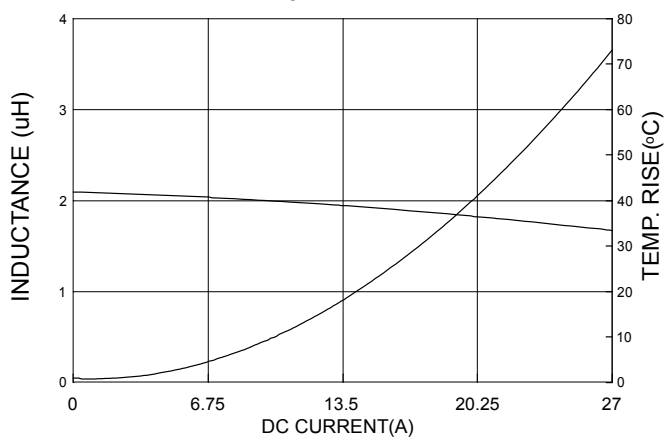
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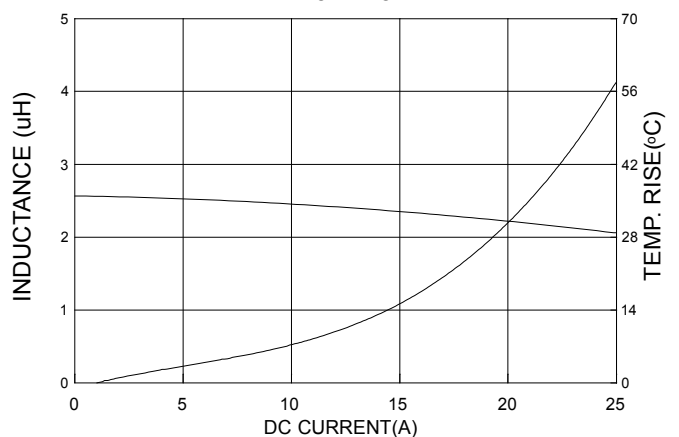
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PA4342.222NLT



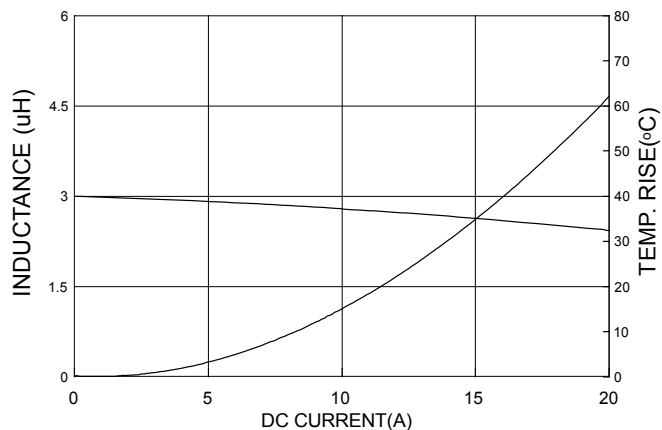
PA4342.252NLT



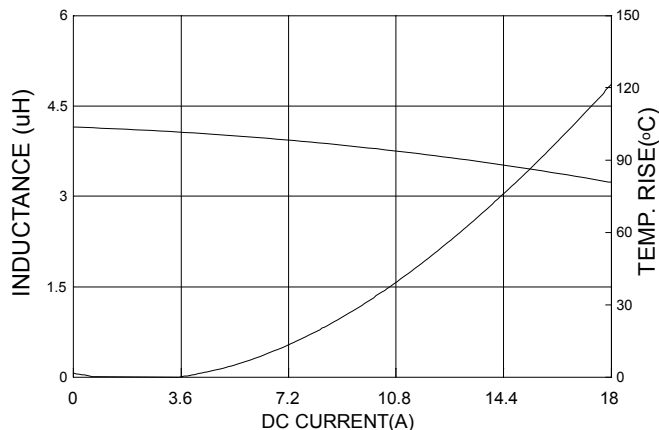
SMT Power Inductor

High Current Molded Power Inductor - PA4342.XXXNLT Series

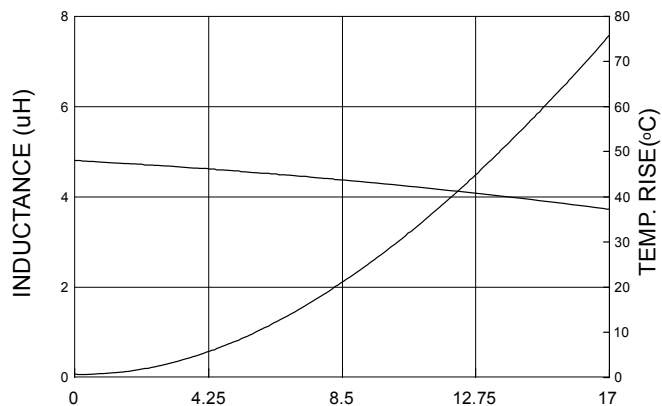
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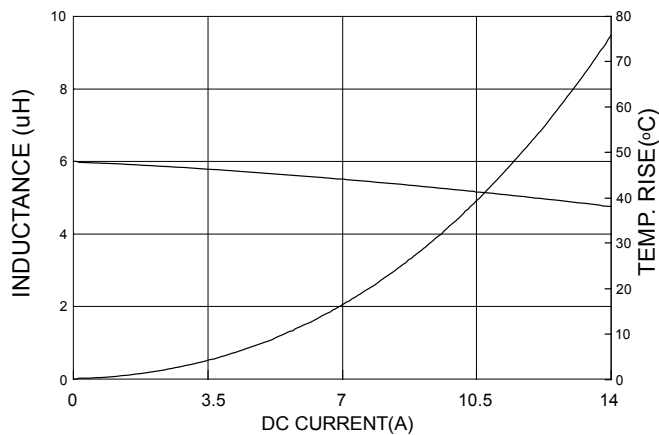
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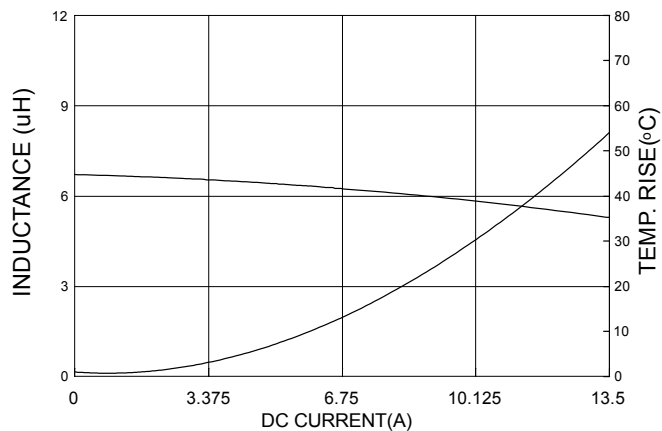
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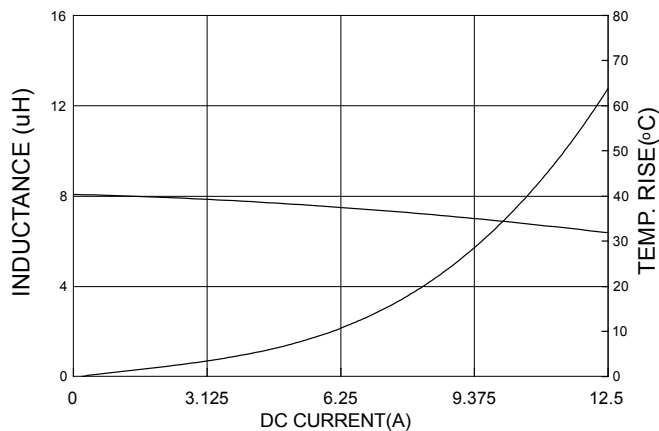
PA4342.562NLT



PA4342.682NLT

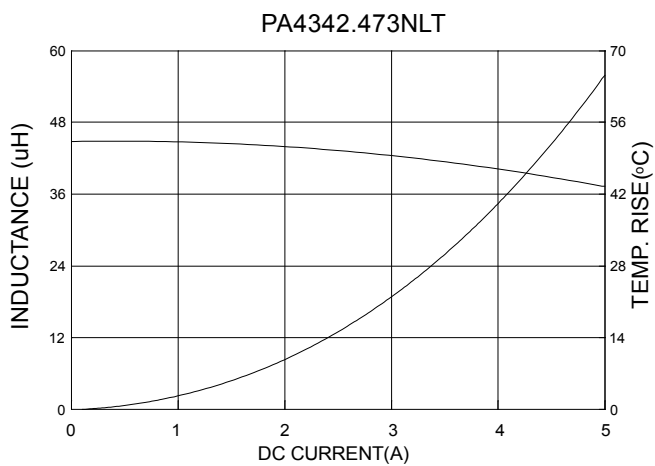
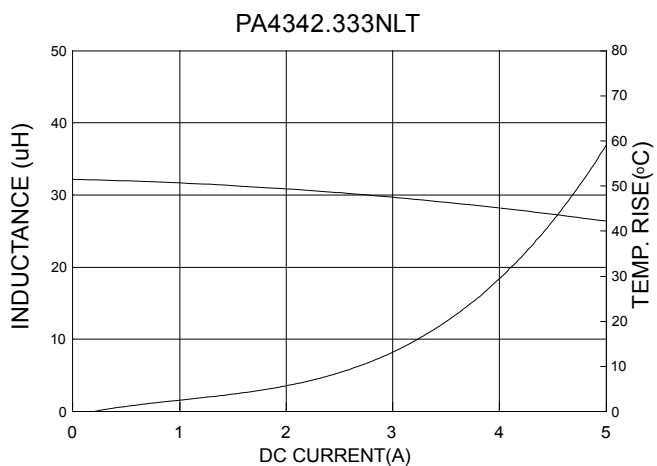
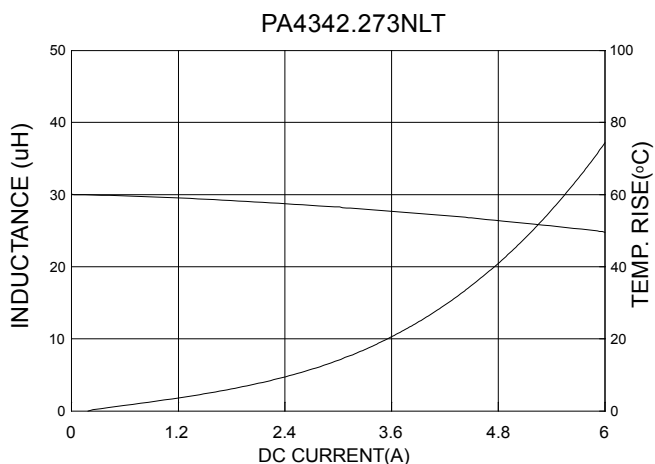
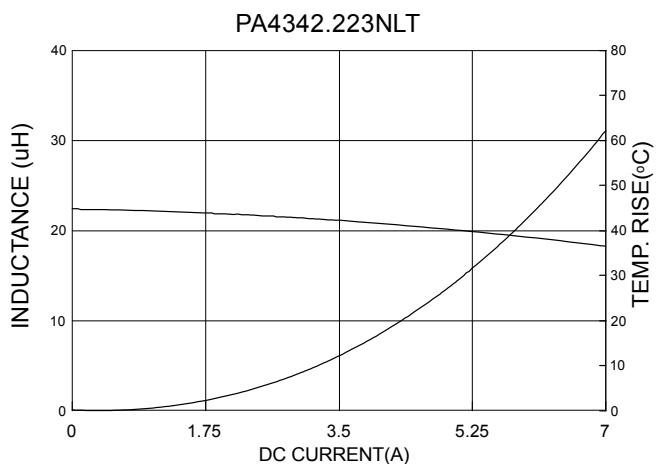
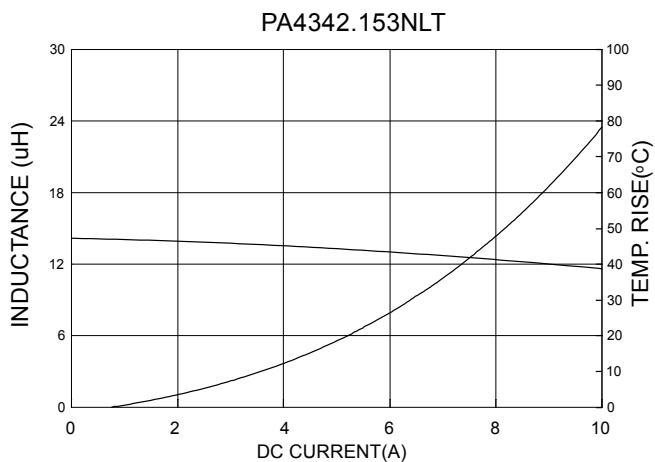
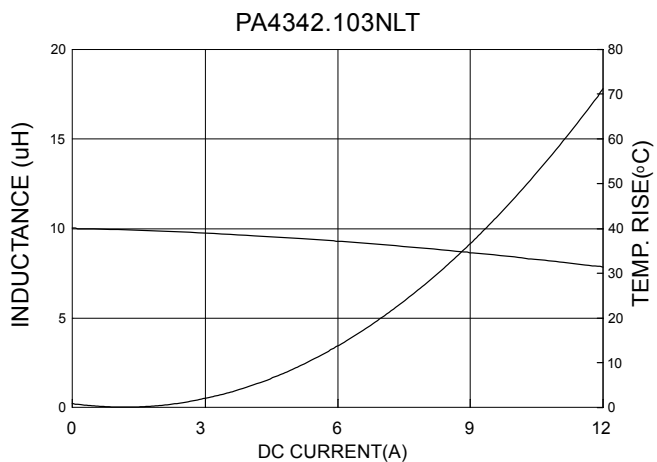


PA4342.822NLT



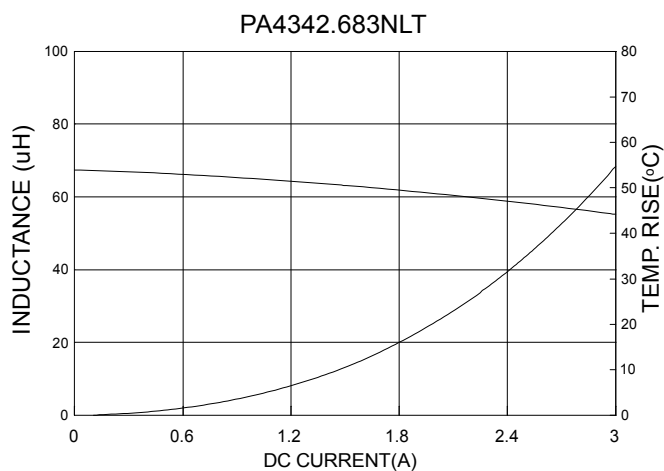
SMT Power Inductor

High Current Molded Power Inductor - PA4342.XXXNLT Series



SMT Power Inductor

High Current Molded Power Inductor - PA4342.XXXNLT Series



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- 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;
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- 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.);

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- 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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