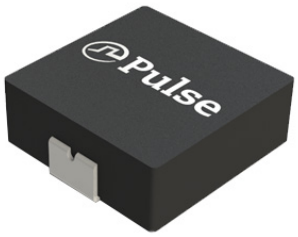
SMT Power Inductor

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	Rated Current	DC Resistance		Saturation Current Max.	Mechanical
			MAX.	TYP.		
	uH	A	mΩ	mΩ	A	
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

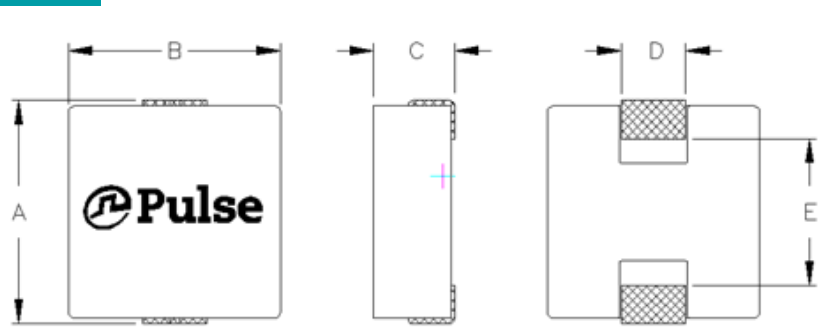
Electrical Specifications @ 25°C – Operating Temperature -40°C to +125°C						
Part Number	Inductance 100KHz, 1V	Rated Current	DC Resistance		Saturation Current Max.	Mechanical
			MAX.	TYP.		
	uH	A	mΩ	mΩ	A	
PA4342.822NLT	8.20±20%	8.0	25.5	20.0	12.5	Footprint 2
PA4342.103NLT	10.0±20%	7.5	30.0	27.0	12.0	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:

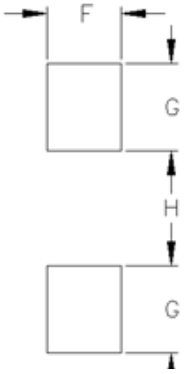
1. Actual temperature of the component during system operation (ambient plus temperature rise) must be within the standard operating range.
2. The saturation current is the current at which the initial inductance drops approximately 30% at the stated ambient temperature. This current is determined by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

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

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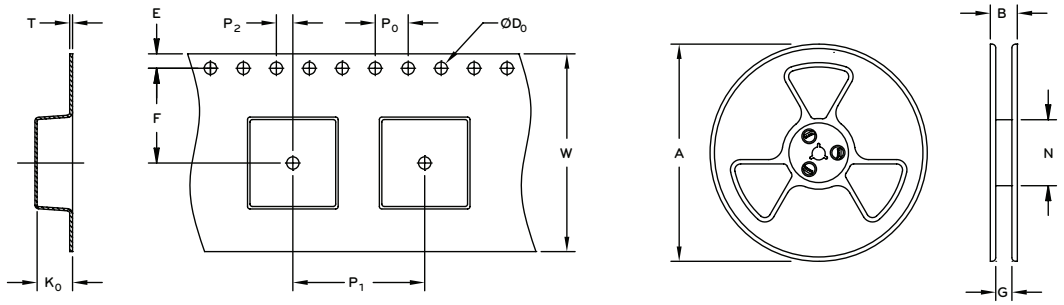
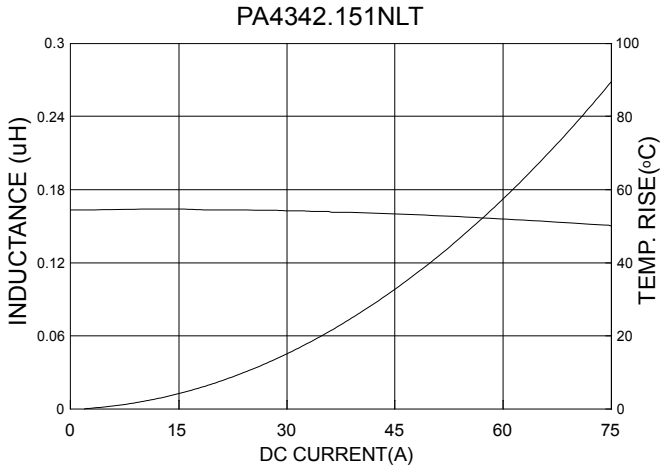
TAPE & REEL INFO

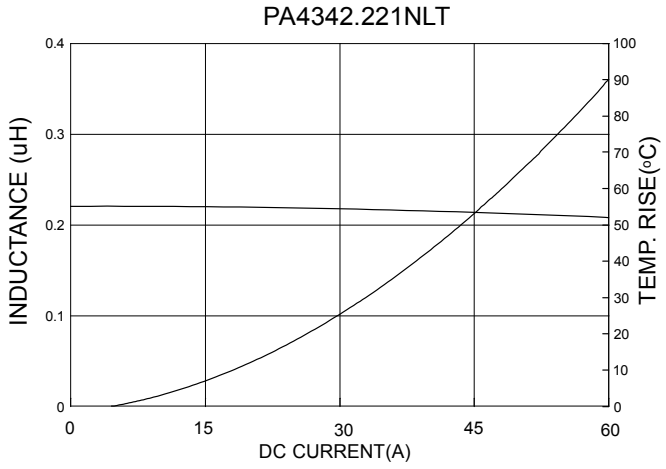


SURFACE MOUNTING TYPE, REEL/TAPE LIST

	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

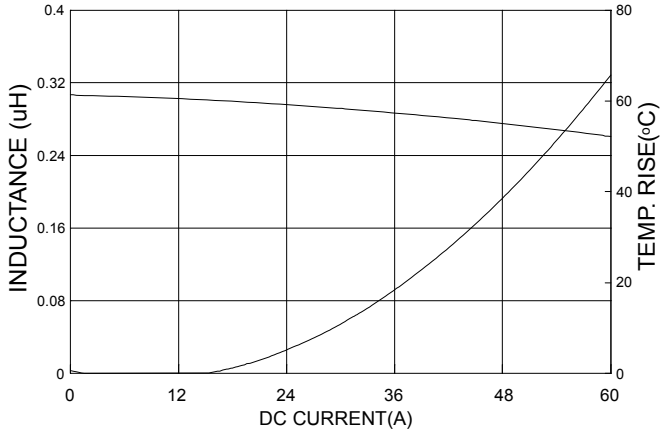




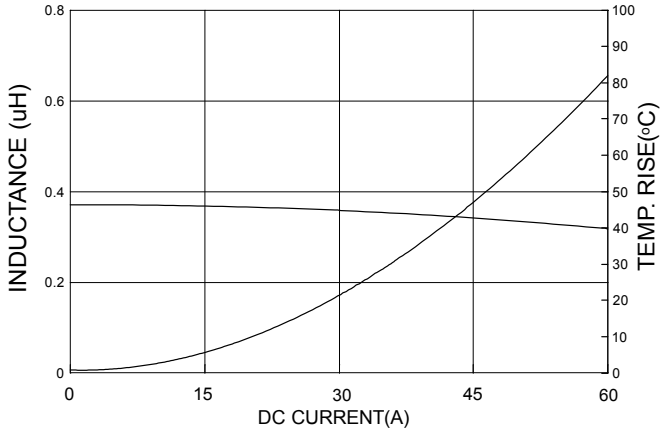
SMT Power Inductor

High Current Molded Power Inductor - PA4342.XXXNLT Series

PA4342.271NLT



PA4342.361NLT



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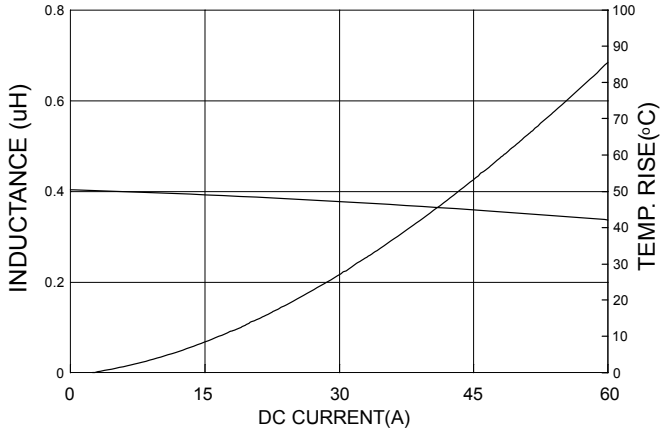
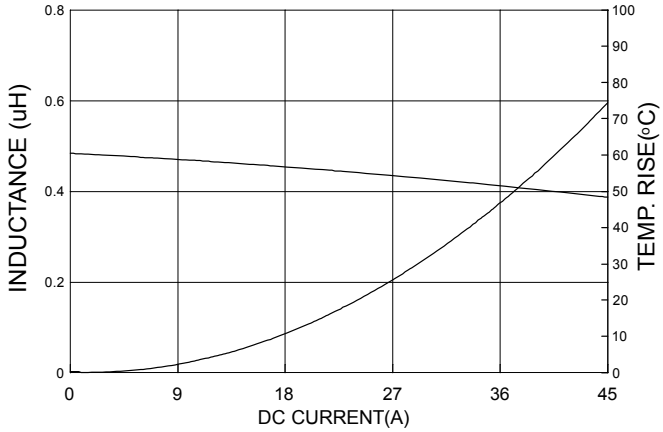


PA4342.451NLT



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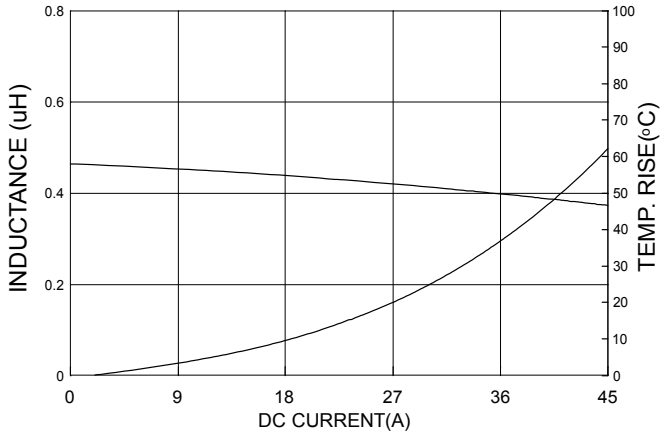

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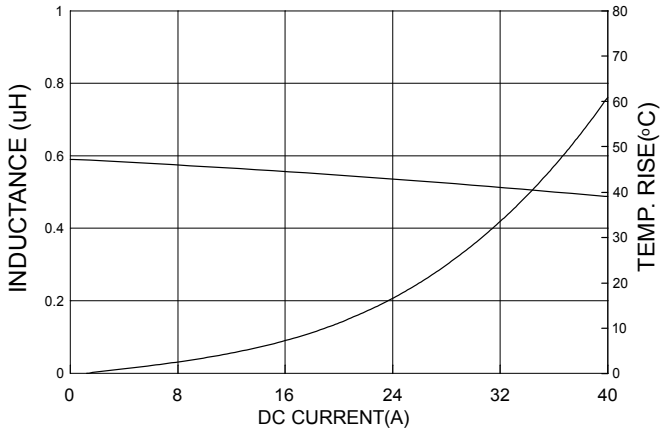
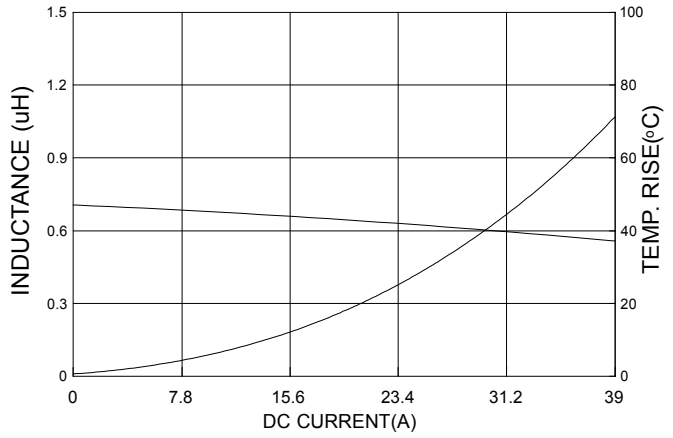


SMT Power Inductor

High Current Molded Power Inductor - PA4342.XXXNLT Series

PA4342.681NLT



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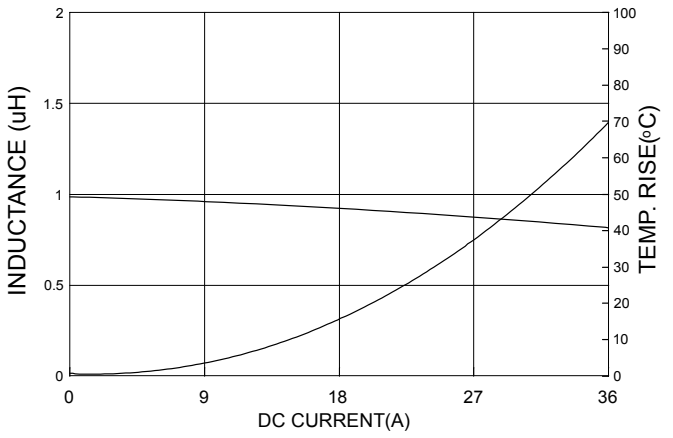

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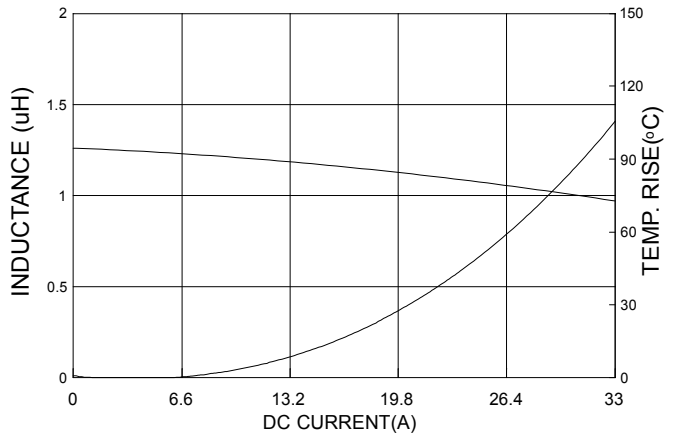

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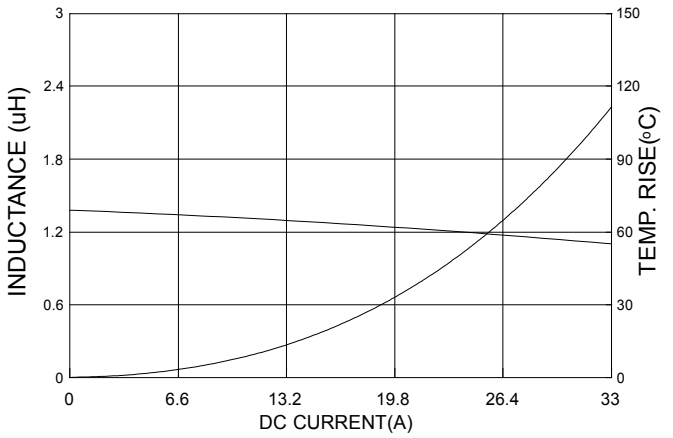

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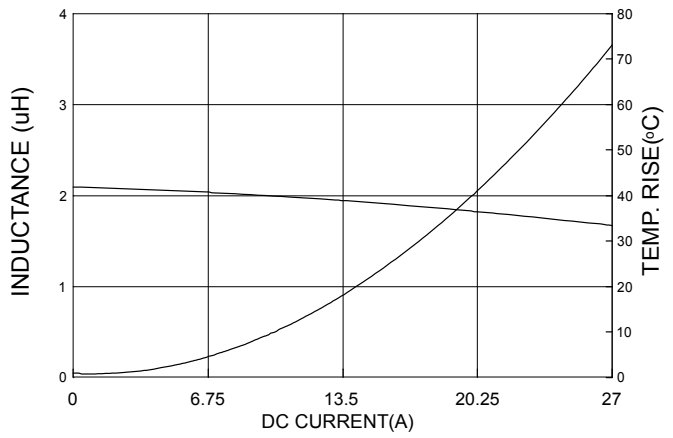

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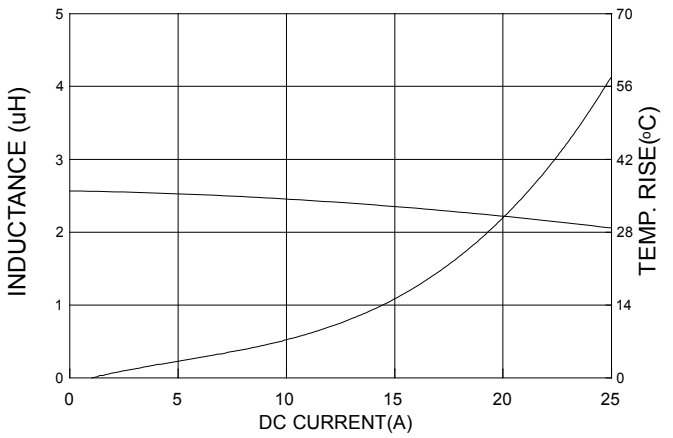
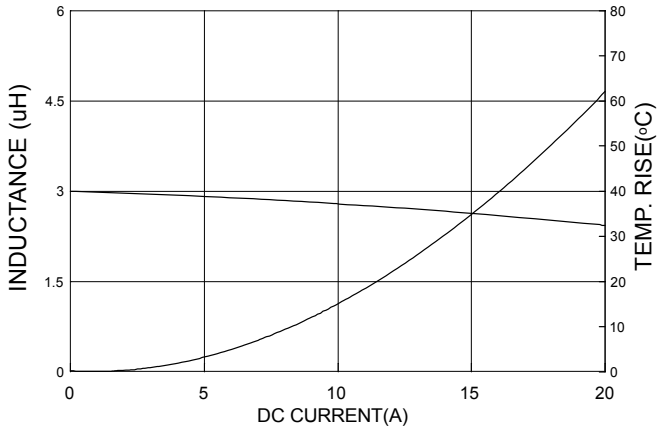


SMT Power Inductor

High Current Molded Power Inductor - PA4342.XXXNLT Series

PA4342.332NLT



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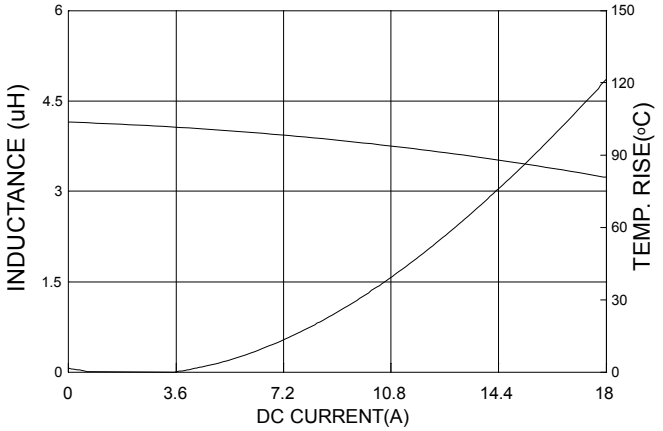

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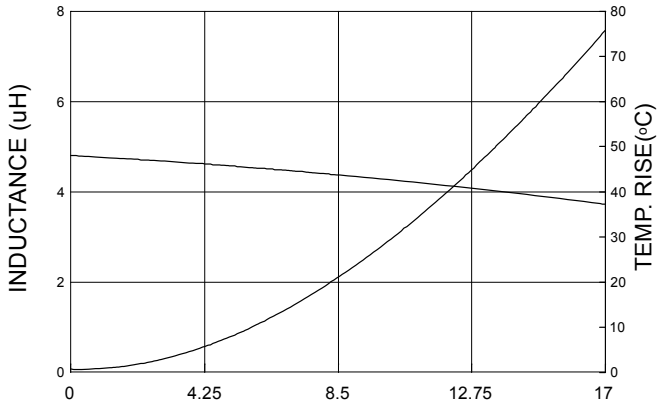

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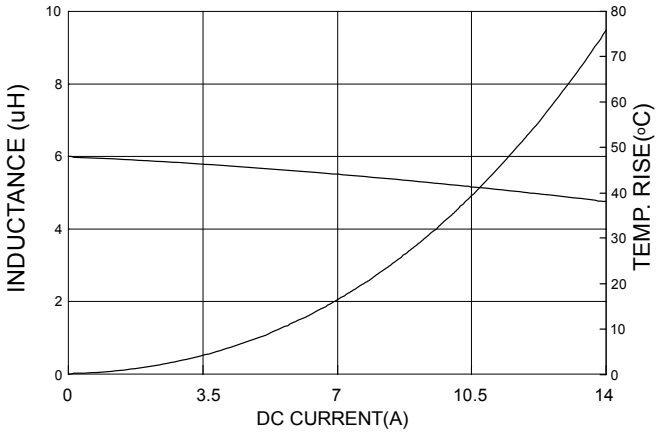

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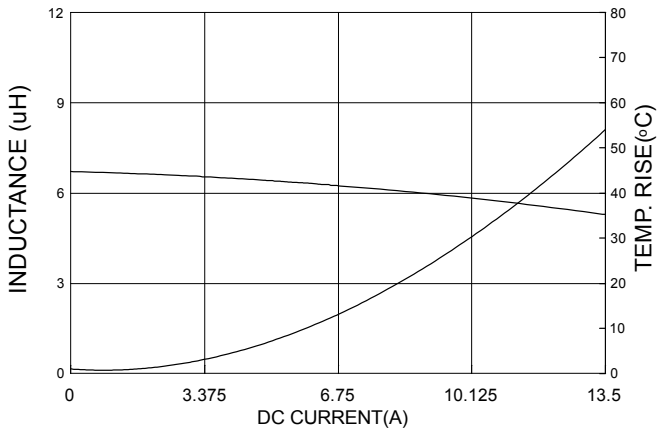

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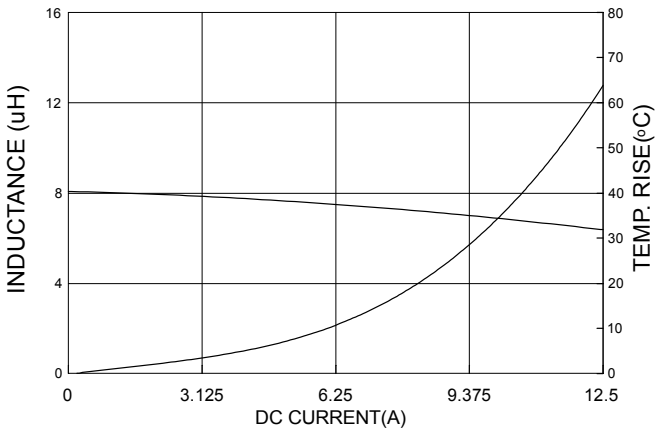

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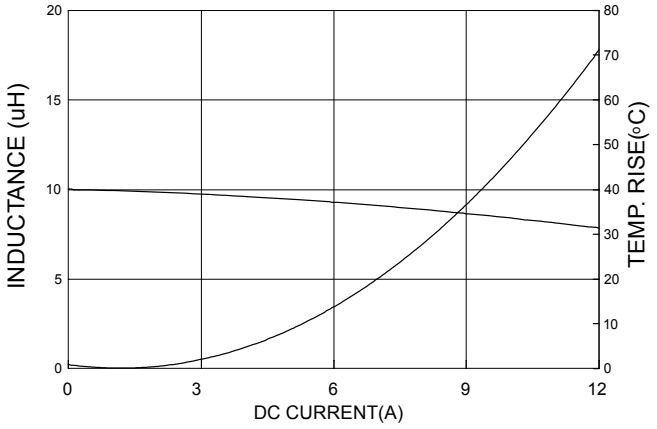
High Current Molded Power Inductor - PA4342.XXXNLT Series

PA4342.103NLT



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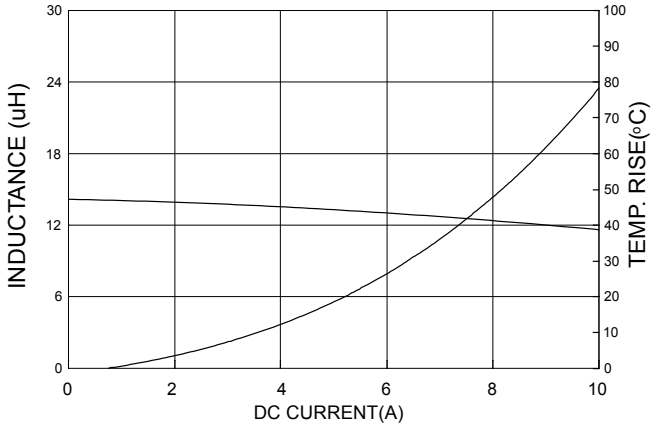

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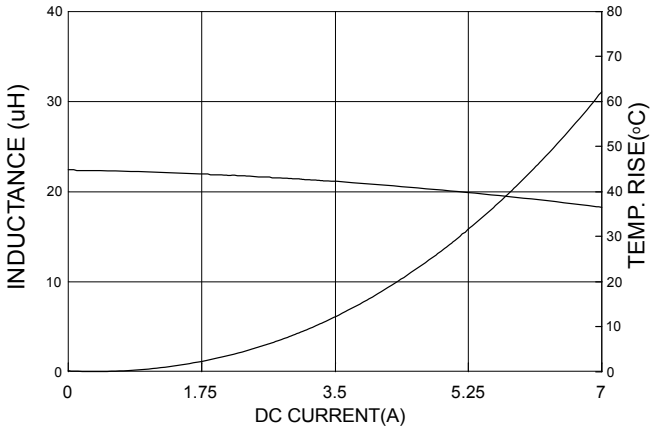

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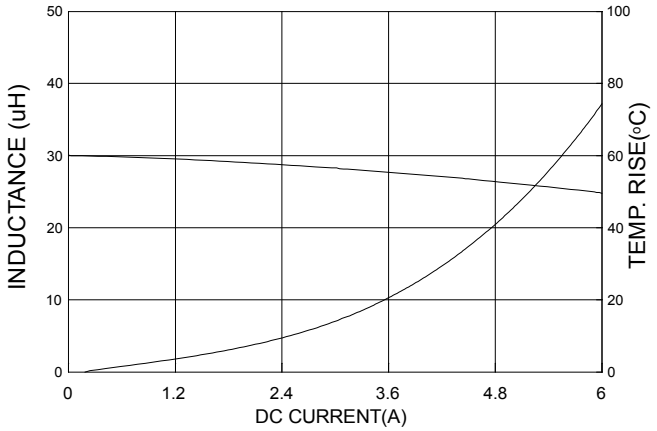

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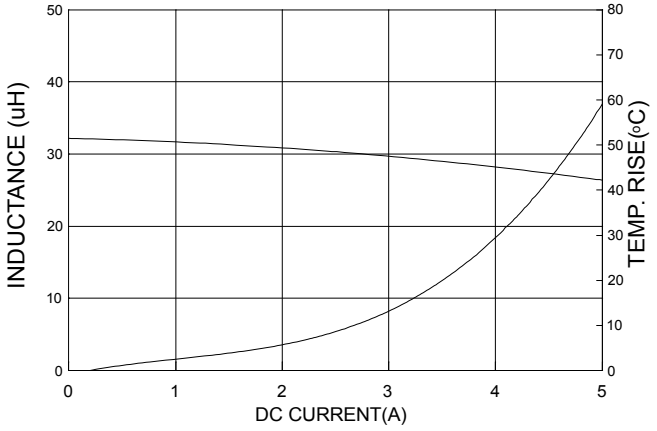

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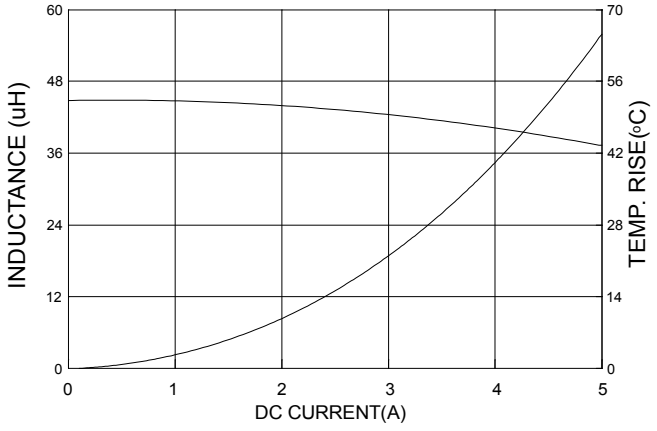

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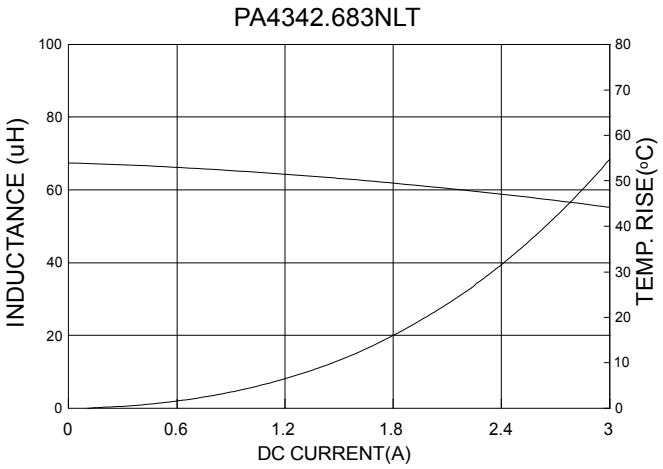

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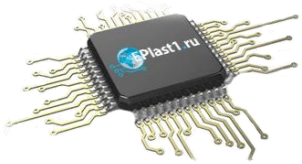
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- 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.



Как с нами связаться

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