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!

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SMT Power Inductor

High Current Molded Power Inductor - PA4340.XXXNLT Series

- ***NEW -*** *AEC-Q200 Qualified*
- ***Height:*** *3.0mm Max*
- ***Footprint:*** *6.0mm x 5.4mm Max*
- ***Current Rating:*** *up to 23A*
- ***Inductance Range:*** *0.10uH to 33uH*
- *Shielded construction and compact design*
- *High current, low DCR, and high efficiency*
- *Minimized acoustic noise and minimized leakage flux*

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

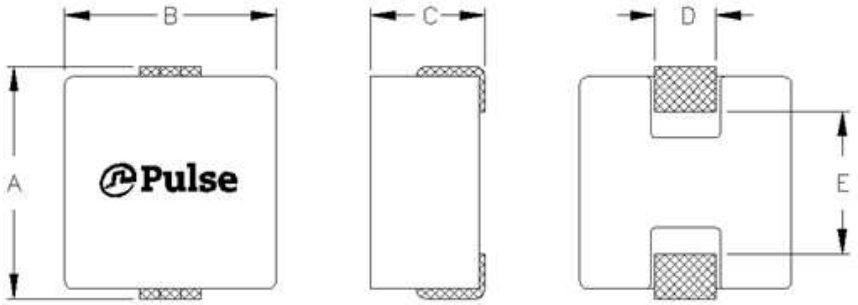
Part Number	Inductance 100KHz, 1V	Rated Current	DC Resistance		Saturation Current Max.
			MAX.	TYP.	
	uH	A	mΩ	mΩ	A
PA4340.101NLT	0.10±30%	23.0	3.0	2.5	27.0
PA4340.201NLT	0.20±30%	16.0	3.2	2.6	25.0
PA4340.221NLT	0.22±30%	15.5	4.4	3.7	21.0
PA4340.331NLT	0.33±20%	14.0	5.0	4.3	18.0
PA4340.471NLT	0.47±20%	12.0	7.4	6.4	16.0
PA4340.681NLT	0.68±20%	8.5	12.0	10.0	14.0
PA4340.102NLT	1.00±20%	7.0	14.0	13.0	11.0
PA4340.122NLT	1.20±20%	6.5	16.0	14.0	11.0
PA4340.152NLT	1.50±20%	6.0	25.0	16.0	10.0
PA4340.222NLT	2.20±20%	5.5	35.0	25.0	9.0
PA4340.332NLT	3.30±20%	5.0	38.0	32.0	8.0
PA4340.472NLT	4.70±20%	4.6	53.0	50.0	6.0
PA4340.562NLT	5.60±20%	4.25	63.0	55.0	4.5
PA4340.682NLT	6.80±20%	4.0	76.2	68.0	4.3
PA4340.103NLT	10.00±20%	2.75	128.0	110.0	3.5
PA4340.153NLT	15.0±20%	2.1	190.0	165.0	2.6
PA4340.183NLT	18.0±20%	2.0	230.0	195.0	2.3
PA4340.223NLT	22.0±20%	1.9	250.0	220.0	1.7
PA4340.333NLT	33.0±20%	1.6	440.0	380.0	1.6

Notes:

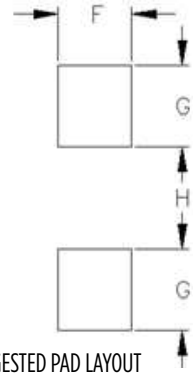
1. Actual temperature of the component during system operation (ambient plus temperature rise) must be within the standard operating range.
2. The saturation current is the current at which the initial inductance drops approximately 30% at the stated ambient temperature. This current is determined by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

PA4340.XXXNLT



Final Layout

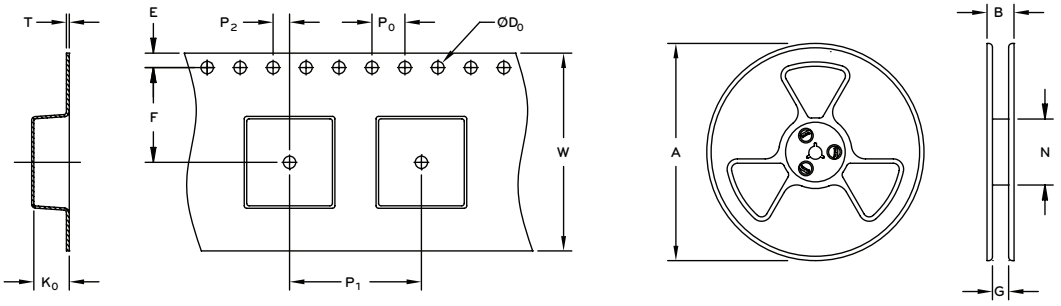


SUGGESTED PAD LAYOUT

Series	A	B	C	D	E	F	G	H
PA4340.XXXNLT	6.0 MAX	5.4 MAX	3.0 MAX	(1.5)	3.5 MAX	(1.8)	(2.0)	(2.5)

All Dimensions in mm.

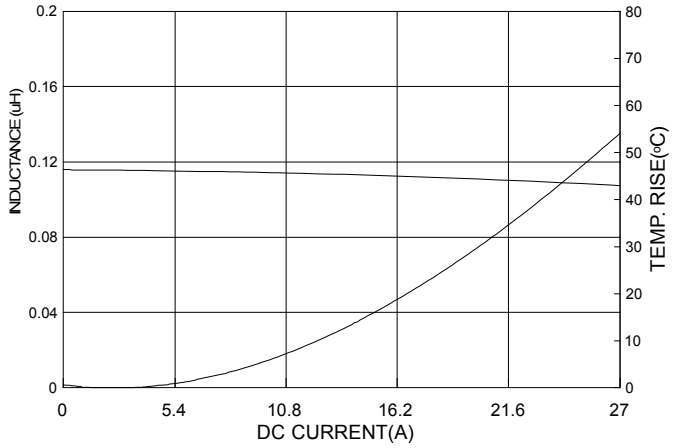
TAPE & REEL INFO



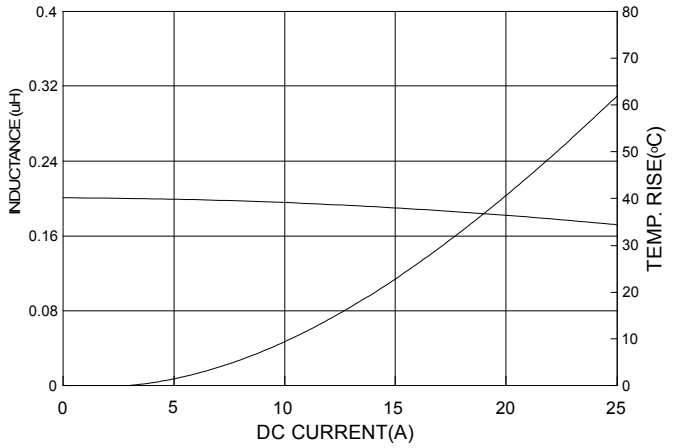
SURFACE MOUNTING TYPE, REEL/TAPE LIST														
	REEL SIZE (mm)				TAPE SIZE (mm)									QTY
	A	B	G	N	E	F	D_0	P_1	P_0	P_2	W	T	K_0	PCS/REEL
PA4340.XXXNLT	Ø330	N/A	12	100	1.75	3.5	1.5	8	4	2	8	0.35	3.3	2000

Typical Performance Curves

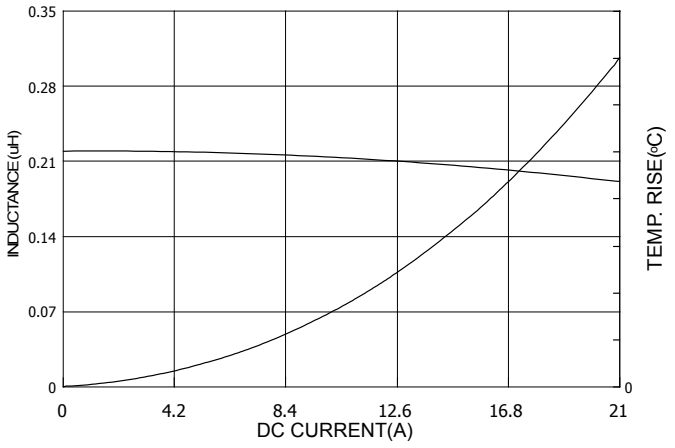
PA4340.101NLT



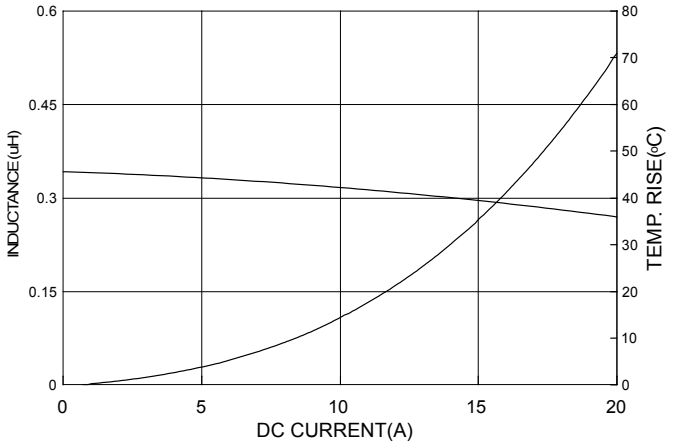
PA4340.201NLT



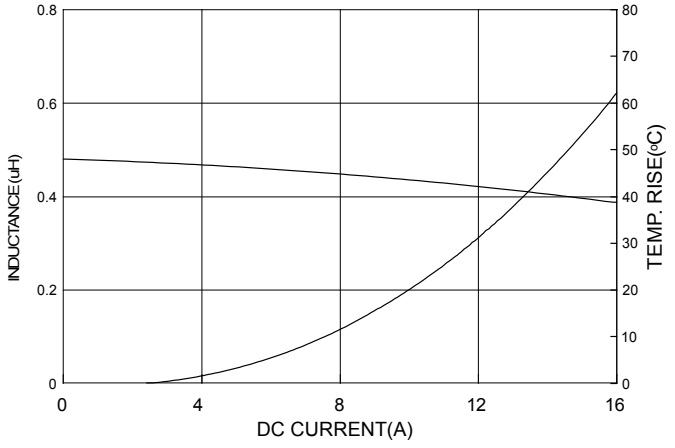
PA4340.221NLT



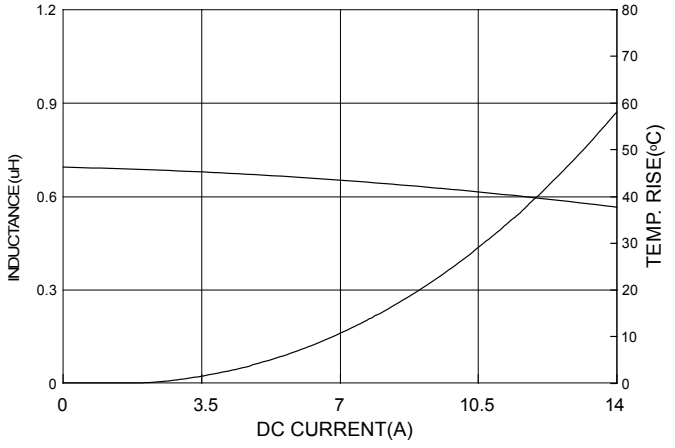
PA4340.331NLT



PA4340.471NLT



PA4340.681NLT



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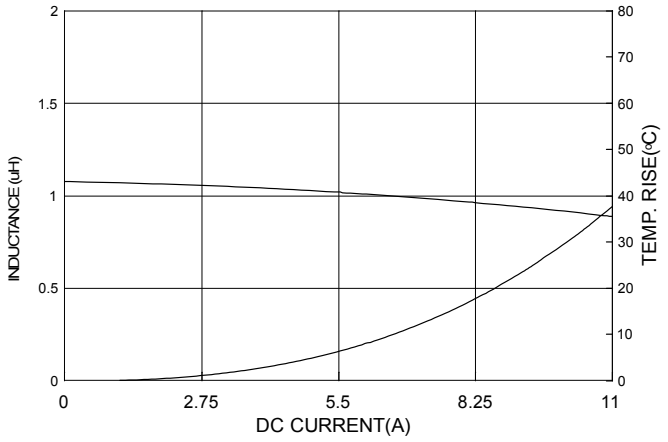
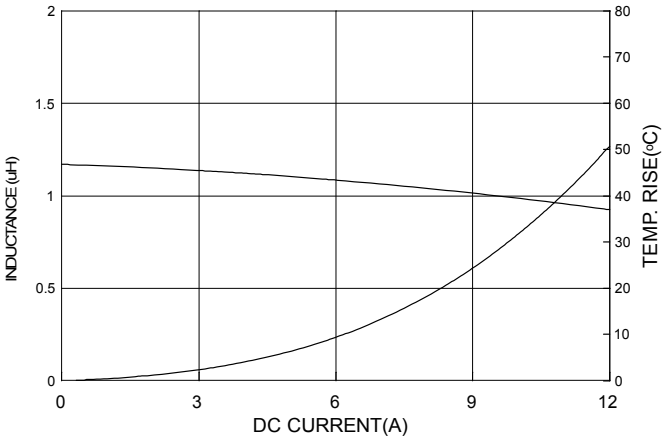
High Current Molded Power Inductor - PA4340.XXXNLT Series

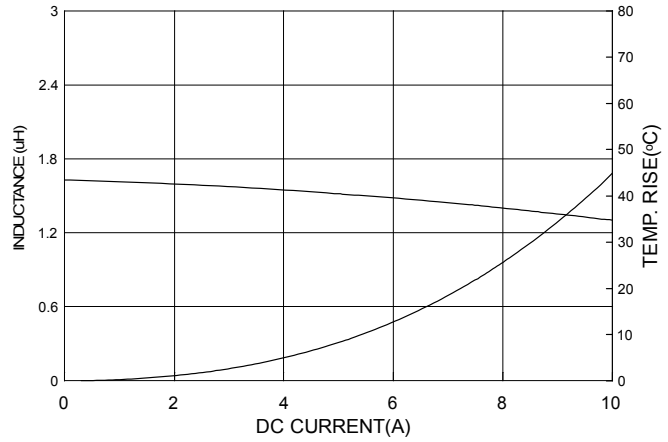
PA4340.102NLT



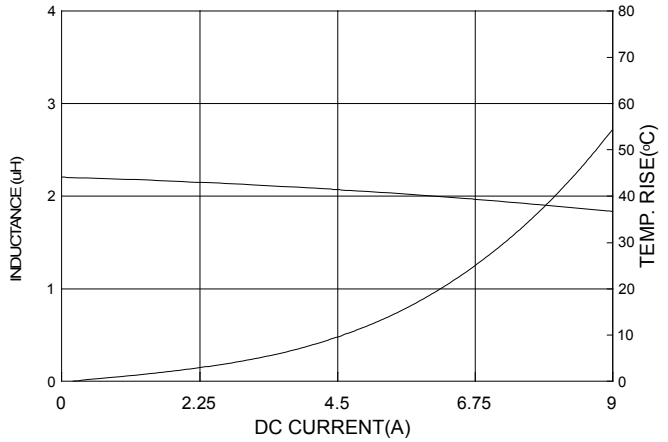
PA4340.122NLT



PA4340.152NLT



PA4340.222NLT



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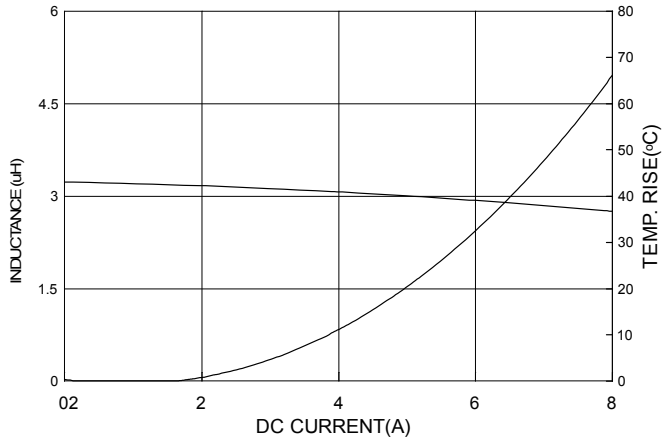

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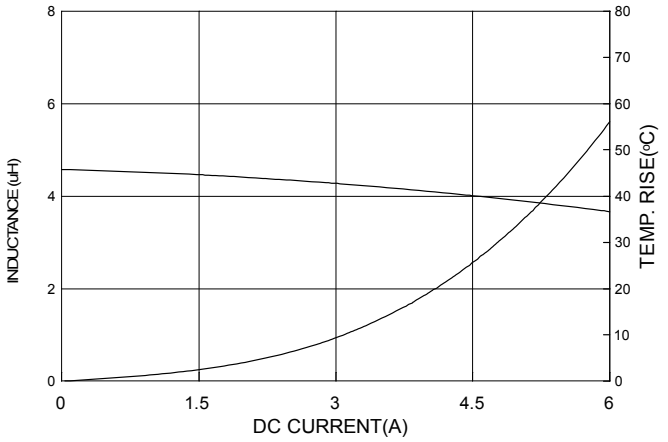
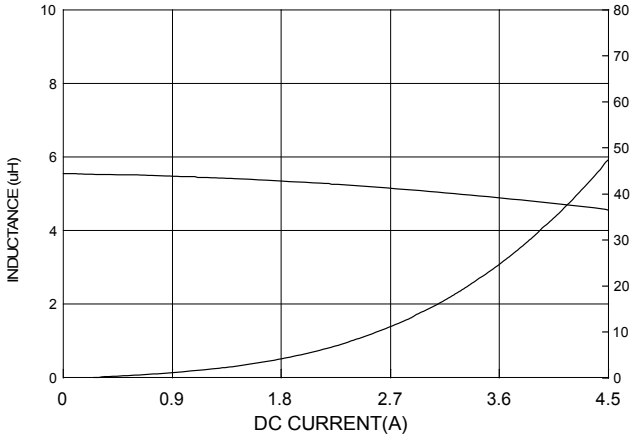


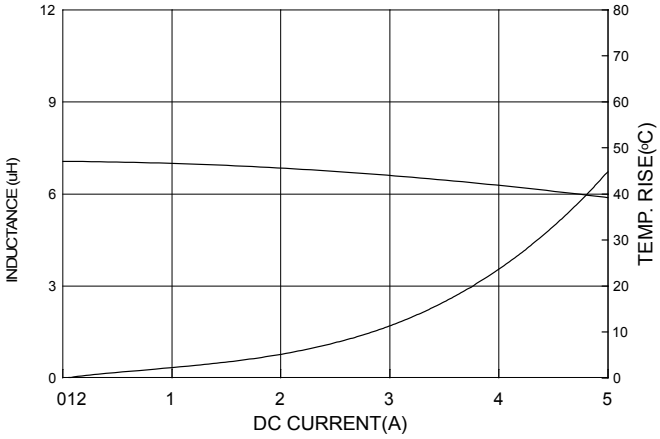
SMT Power Inductor

High Current Molded Power Inductor - PA4340.XXXNLT Series

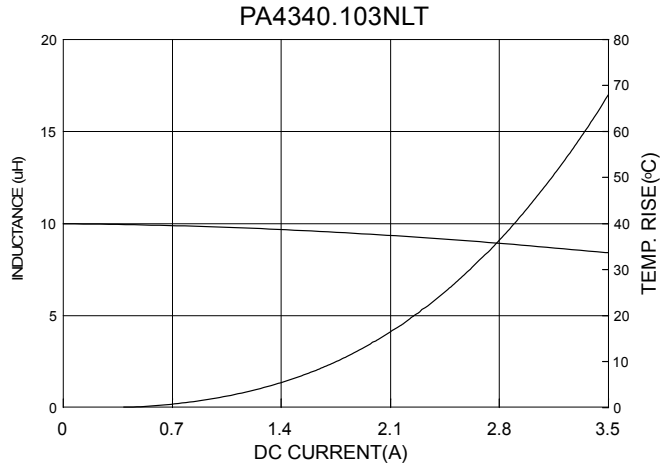
PA4340.562NLT



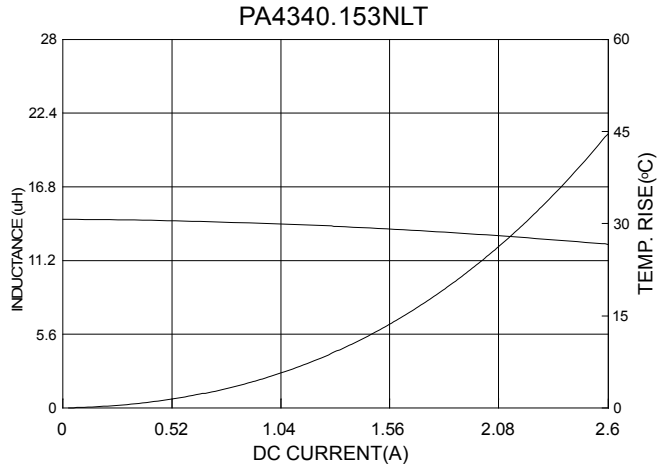
PA4340.682NLT



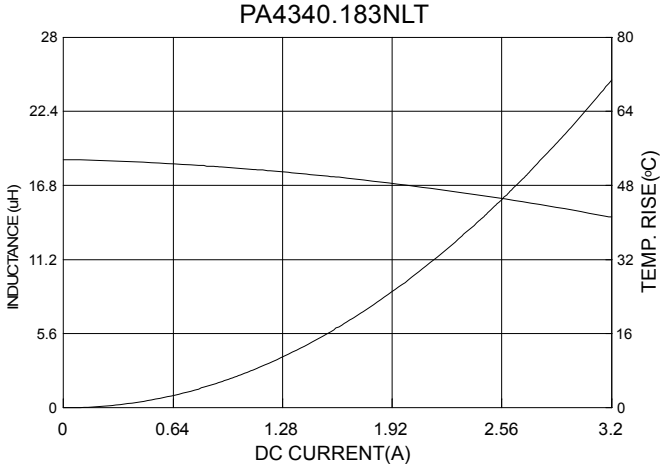
PA4340.103NLT



PA4340.153NLT



PA4340.183NLT



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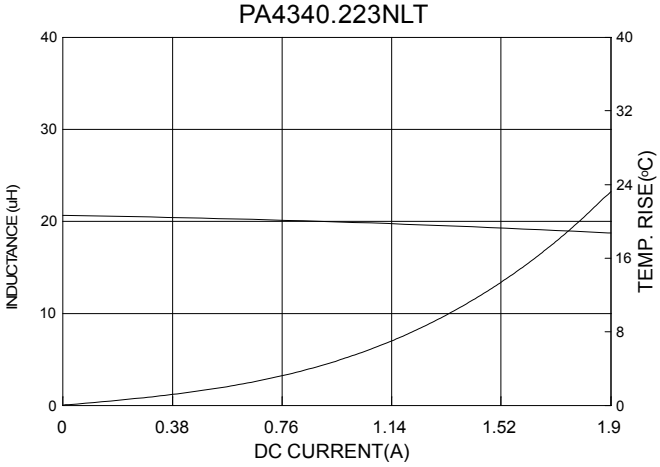
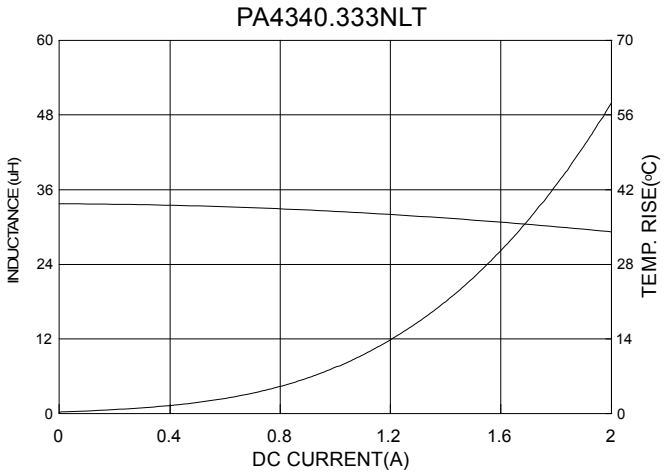


SMT Power Inductor

High Current Molded Power Inductor - PA4340.XXXNLT Series



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