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!

Contact us

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SMT Power Inductor

High Current Molded Power Inductor - PA4344.XXXNLT Series

- ***Height:*** *7.0mm Max*
- ***Footprint:*** *17.7mm x 17.2mm Max*
- ***Current Rating:*** *up to 52.0A*
- ***Inductance Range:*** *1.0uH to 100uH*
- *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

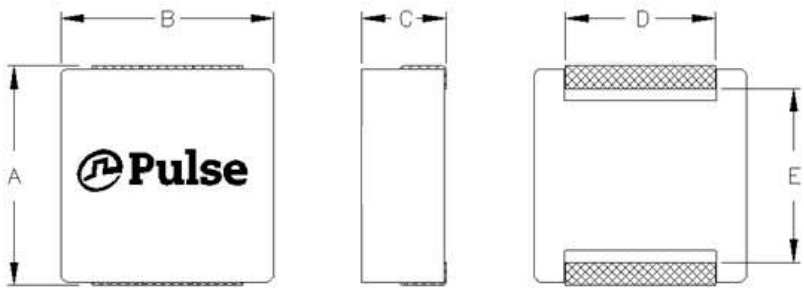
Part Number	Inductance 100KHz, 1V	Rated Current	DC Resistance		Saturation Current 1 Max.	Saturation Current 2 Max.
			MAX.	TYP.		
	uH±20%	A	mΩ	mΩ	A	A
PA4344.102NLT	1.0	52.0	2.0	1.6	60.0	70.0
PA4344.132NLT	1.3	49.0	2.3	1.7	54.0	67.0
PA4344.152NLT	1.5	47.0	2.5	2.0	52.0	65.0
PA4344.222NLT	2.2	43.5	2.7	2.4	46.0	62.0
PA4344.332NLT	3.3	28.0	3.9	3.5	45.0	54.0
PA4344.472NLT	4.7	25.0	5.5	4.8	41.0	50.0
PA4344.562NLT	5.6	21.0	7.05	5.8	40.0	45.0
PA4344.682NLT	6.8	19.0	9.2	8.4	32.0	39.0
PA4344.822NLT	8.2	18.0	10.8	9.6	25.0	31.0
PA4344.103NLT	10.0	16.5	13.0	11.8	24.0	29.0
PA4344.153NLT	15.0	12.5	20.5	17.8	23.0	27.0
PA4344.223NLT	22.0	12.0	26.5	25.1	18.0	23.0
PA4344.333NLT	33.0	10.7	44.0	38.0	15.0	20.0
PA4344.393NLT	39.0	9.2	48.0	40.0	11.0	18.0
PA4344.473NLT	47.0	8.7	55.0	48.0	9.5	16.0
PA4344.563NLT	56.0	7.8	62.0	54.0	9.0	15.0
PA4344.683NLT	68.0	7.0	80.0	68.0	8.0	13.0
PA4344.104NLT	100	5.3	118.0	102.0	6.5	12

Notes:

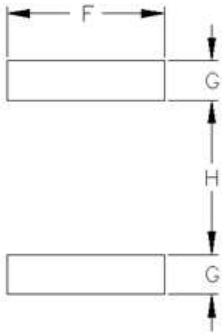
1. Actual temperature of the component during system operation (ambient plus temperature rise) must be within the standard operating range.
2. The saturation current 1 is the current at which the initial inductance drops approximately 30% at the stated ambient temperature. This current is determined 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 saturation current 2 is the current at which the initial inductance drops approximately 40% 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.
4. 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.
5. 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

PA4344.XXXNLT



Final Layout

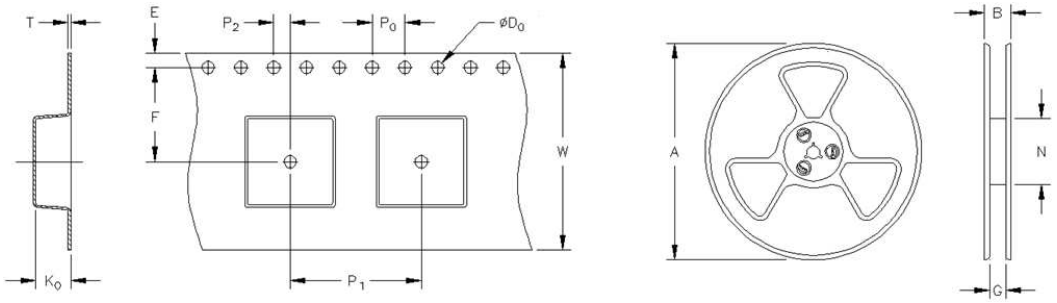


SUGGESTED PAD LAYOUT

Series	A	B	C	D	E	F	G	H
PA4344.XXXNLT	17.7 Max	17.2 Max	7.0 Max	(11.9)	(13.1)	(12.5)	(3.15)	(12.2)

All Dimensions in mm.

TAPE & REEL INFO

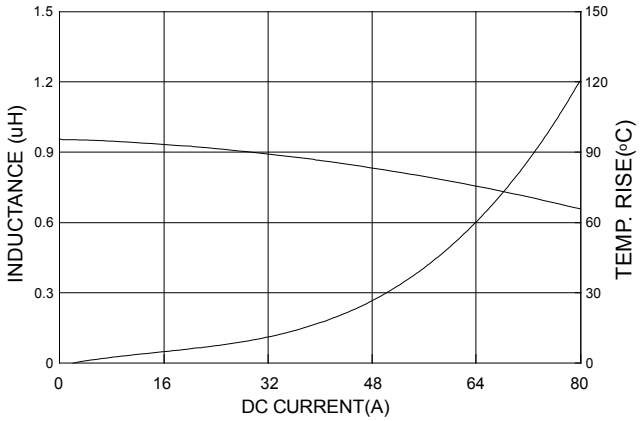


SURFACE MOUNTING TYPE, REEL/TAPE LIST														
	REEL SIZE (mm)				TAPE SIZE (mm)									QTY
	A	B	G	N	E	F	D_0	P_1	P_0	P_2	W	T	K_0	PCS/REEL
PA4344.XXXNLT	Ø330	N/A	32	100	1.75	14.2	1.5	24	4	2	32	0.5	7.5	300

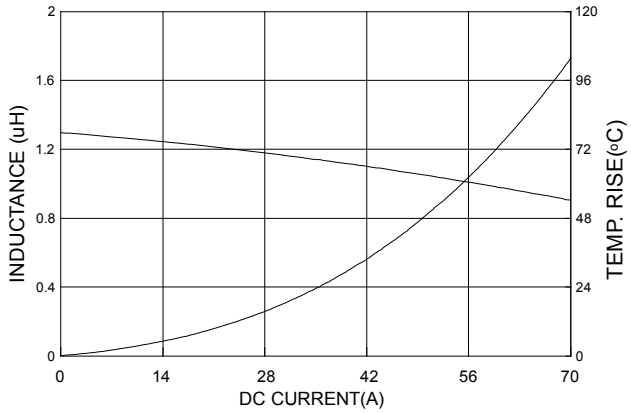
SMT Power Inductor

High Current Molded Power Inductor - PA4344.XXXNLT Series

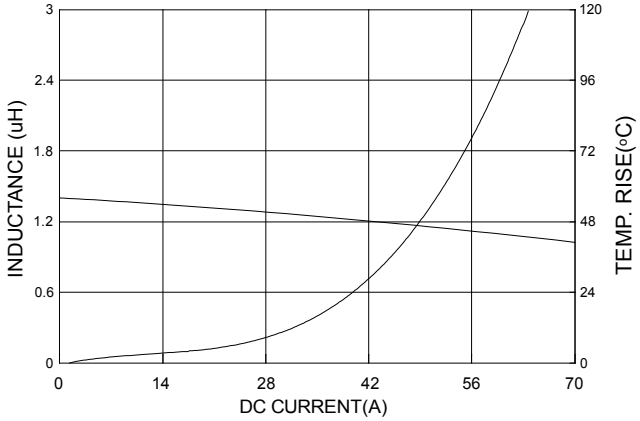
PA4344.102NLT



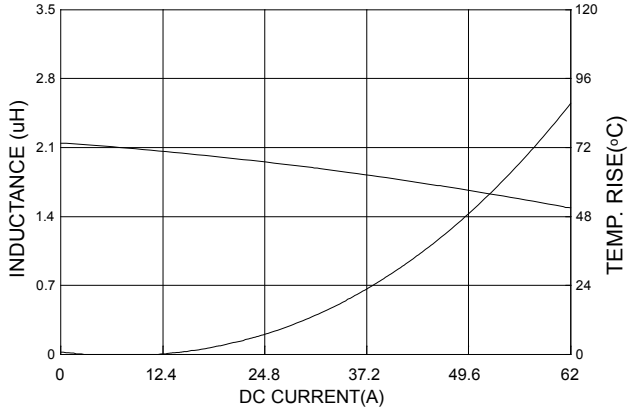
PA4344.132NLT



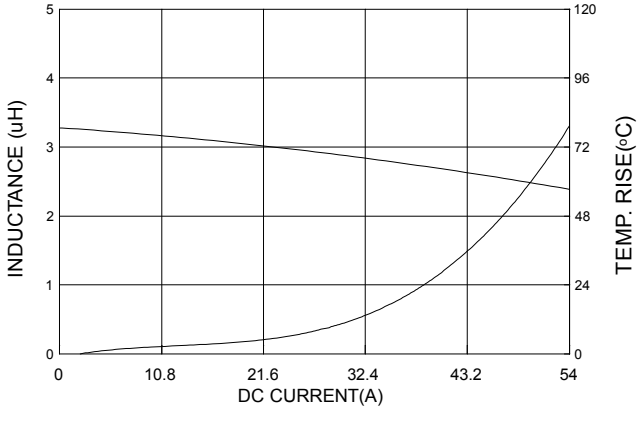
PA4344.152NLT



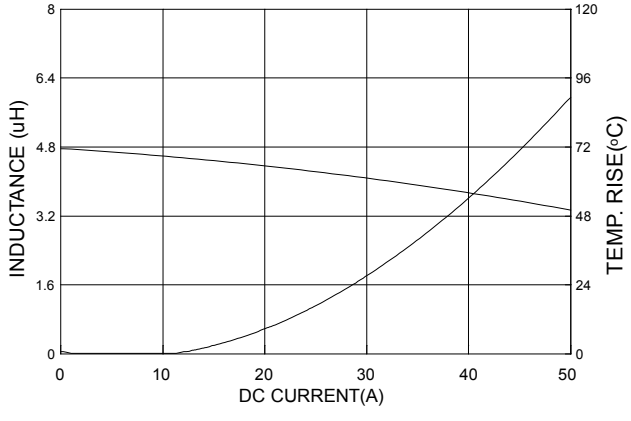
PA4344.222NLT



PA4344.332NLT



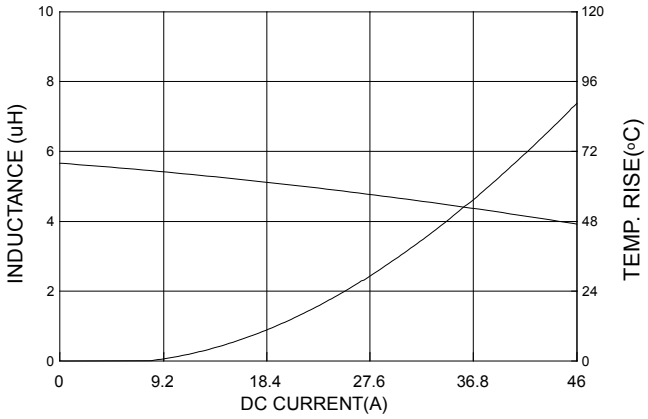
PA4344.472NLT



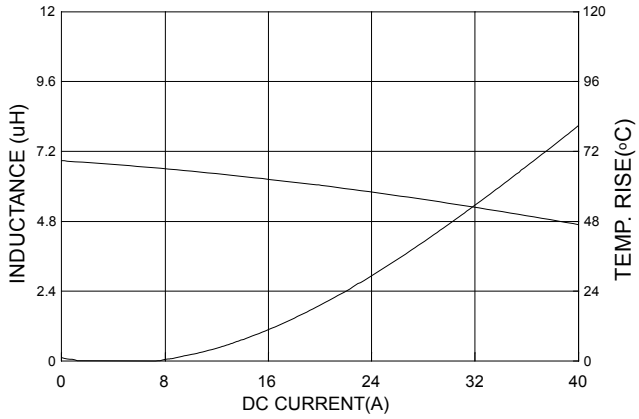
SMT Power Inductor

High Current Molded Power Inductor - PA4344.XXXNLT Series

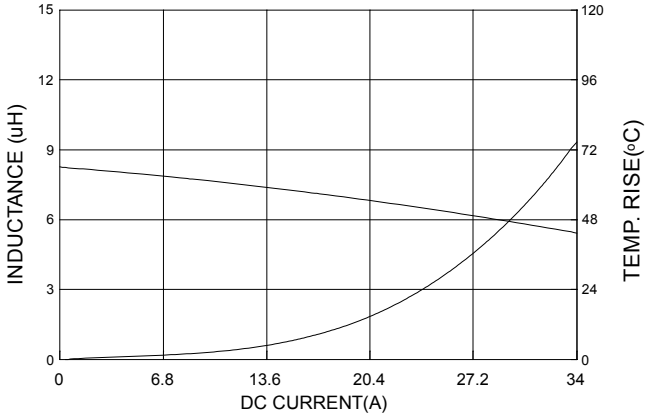
PA4344.562NLT



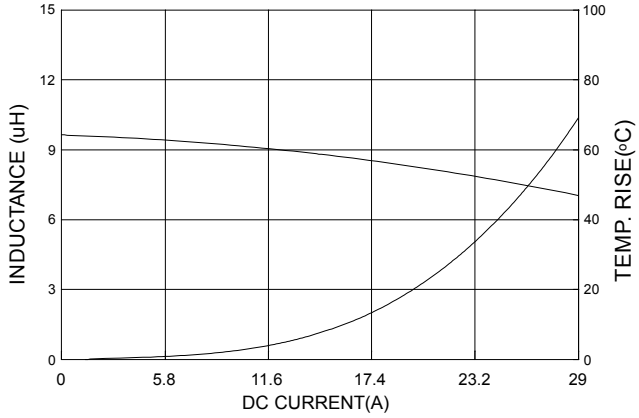
PA4344.682NLT



PA4344.882NLT



PA4344.103NLT



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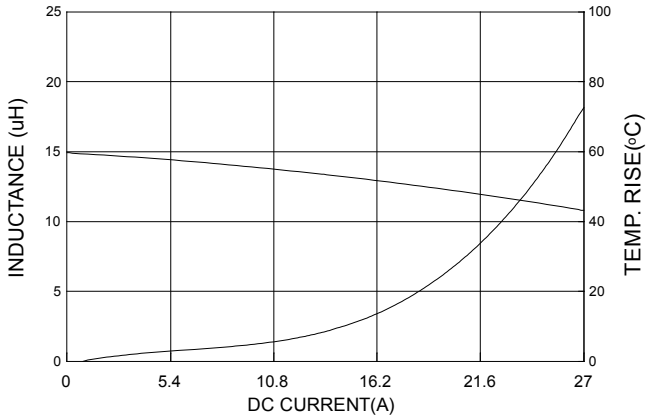

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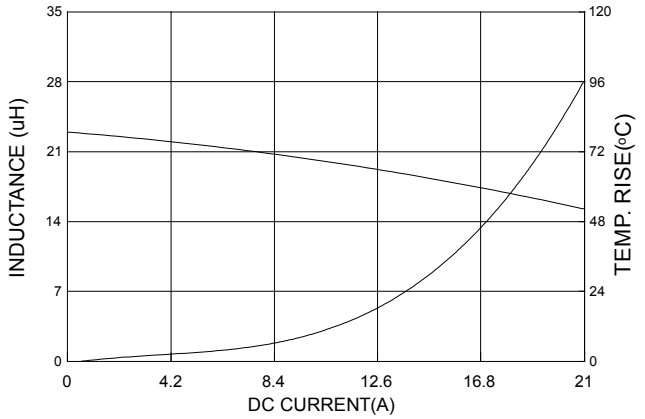
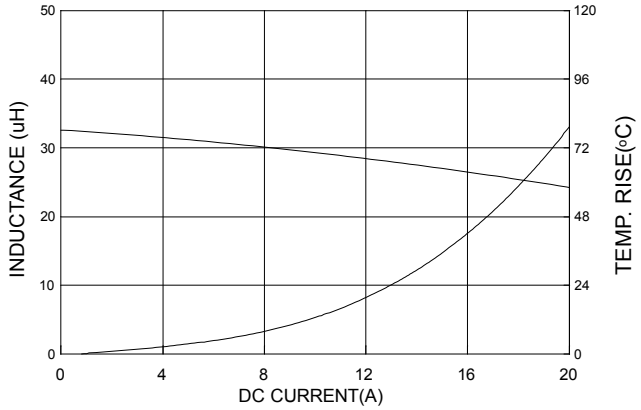


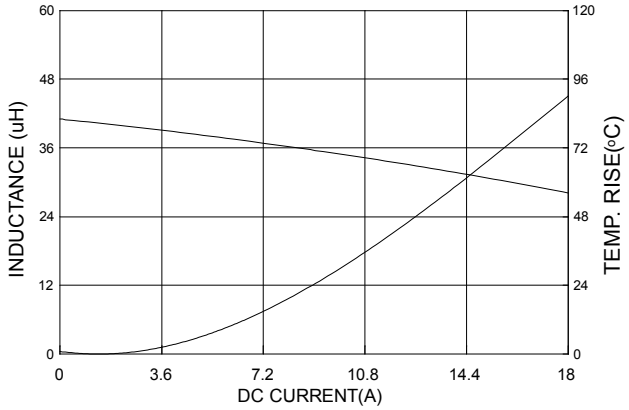
SMT Power Inductor

High Current Molded Power Inductor - PA4344.XXXNLT Series

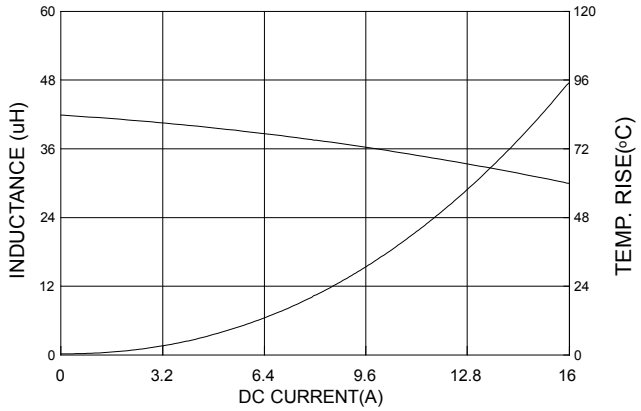
PA4344.333NLT



PA4344.393NLT



PA4344.473NLT



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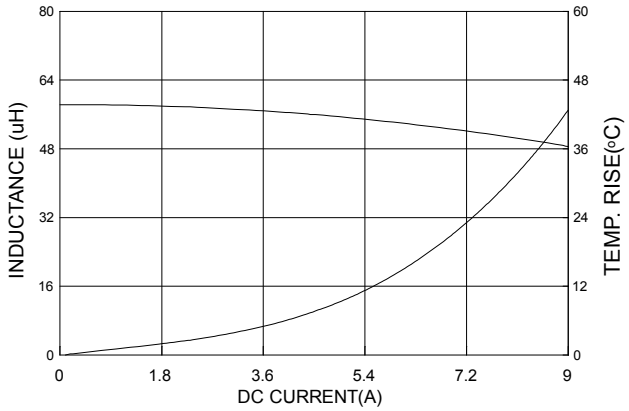

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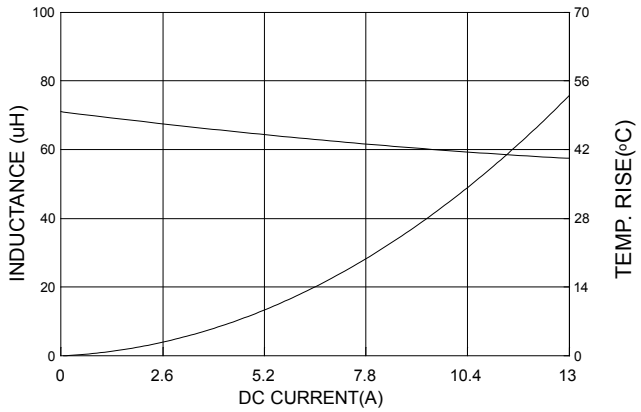
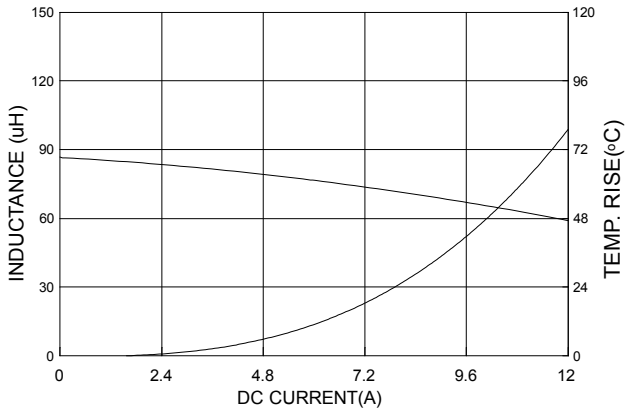


PA4344.104NLT



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