SMT Power Inductor

High Current Molded Power Inductor - PA4341.XXXNLT Series

- ***Height:*** *3.0mm Max*
- ***Footprint:*** *7.6mm x 6.9mm Max*
- ***Current Rating:*** *up to 32.5A*
- ***Inductance Range:*** *0.1uH to 47.0uH*
- *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[5] 100KHz, 1V	Rated Current	DC Resistance		Saturation Current Max.
			MAX.	TYP.	
	(uH ±20%)	A	mΩ	mΩ	A
PA4341.101NLT	0.10*	32.5	1.7	1.2	60.0
PA4341.151NLT	0.15*	27.0	1.9	1.5	45.0
PA4341.161NLT	0.16*	27.0	1.9	1.5	45.0
PA4341.201NLT	0.20*	24.0	2.5	1.8	41.0
PA4341.221NLT	0.22	23.0	2.8	2.1	40.0
PA4341.301NLT	0.30	21.0	3.8	3.2	35.0
PA4341.331NLT	0.33	20.0	3.9	3.5	32.0
PA4341.361NLT	0.36	19.0	4.2	3.6	32.0
PA4341.471NLT	0.47	17.5	4.2	4.0	26.0
PA4341.561NLT	0.56	16.5	5.0	4.7	25.5
PA4341.601NLT	0.60	16.0	5.2	4.7	25.5
PA4341.681NLT	0.68	15.5	5.5	4.8	25.0
PA4341.751NLT	0.75	14.5	6.6	5.5	24.5
PA4341.821NLT	0.82	13.0	8.0	6.7	24.0
PA4341.102NLT	1.0	11.0	10.0	8.3	22.0
PA4341.122NLT	1.2	10.0	12.0	10.0	20.0
PA4341.152NLT	1.5	9.0	15.0	13.0	18.0
PA4341.182NLT	1.8	8.5	17.0	14.0	16.0
PA4341.202NLT	2.0	8.2	19.0	16.0	15.0

SMT Power Inductor

High Current Molded Power Inductor - PA4341.XXXNLT Series

Pulse Electronics

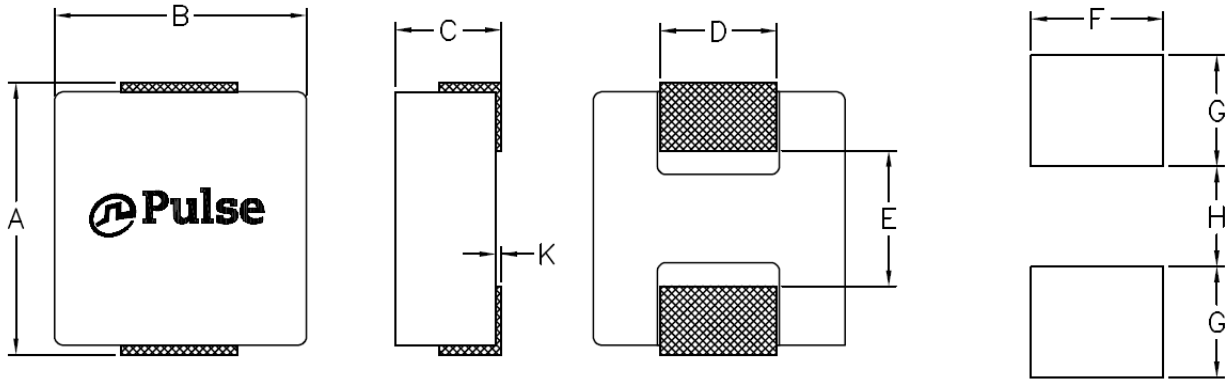
Electrical Specifications @ 25°C - Operating Temperature -40°C to +125°C					
Part Number	Inductance[5] 100KHz, 1V	Rated Current	DC Resistance		Saturation Current Max.
			MAX.	TYP.	
	(uH ±20%)	A	mΩ	mΩ	A
PA4341.222NLT	2.2	8.0	20.0	18.0	14.0
PA4341.252NLT	2.5	7.0	22.0	20.0	13.0
PA4341.332NLT	3.3	6.0	30.0	28.0	13.5
PA4341.472NLT	4.7	5.5	40.0	37.0	10.0
PA4341.562NLT	5.6	5.0	48.0	43.0	9.0
PA4341.682NLT	6.8	4.5	60.0	54.0	8.0
PA4341.822NLT	8.2	4.0	68.0	64.0	7.5
PA4341.103NLT	10.0	3.5	85.0	75.0	6.0
PA4341.123NLT	12.0	3.3	93.0	81.0	5.5
PA4341.223NLT	22.0	2.0	190.0	165.0	3.5
PA4341.473NLT	47.0	1.75	363.0	302.0	2.0

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.
5. Please note that the inductance tolerance is ±20% for all parts except PA4341.101NLT, PA4341.151NLT, PA4341.161NLT, and PA4341.201NLT 's tolerance is ±30%.
6. Automotive grade products are available with the addition of the *ANLT* suffix (ie. PA4341.222ANLT)

PA4341.XXXNLT

Mechanical



FINAL LAYOUT

SUGGESTED PAD LAYOUT

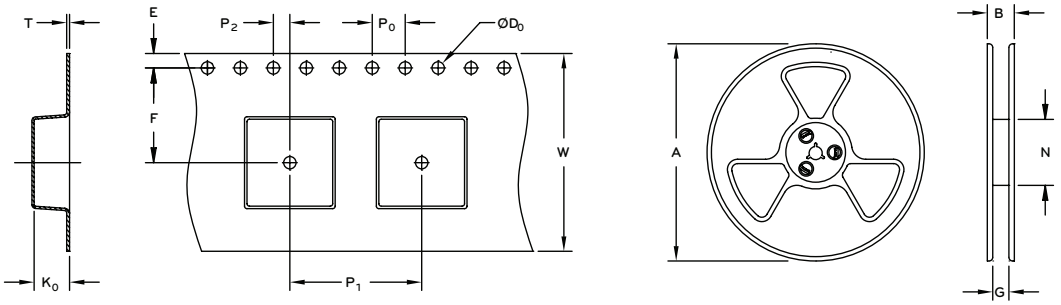
SMT Power Inductor

High Current Molded Power Inductor - PA4341.XXXNLT Series

Series	A	B	C	D	E	F	G	H	K
PA4341.XXXNLT	7.6 MAX	6.9 MAX	3.0 MAX	(3.0)	(3.7)	(3.5)	(2.95)	(2.5)	(0~0.22)

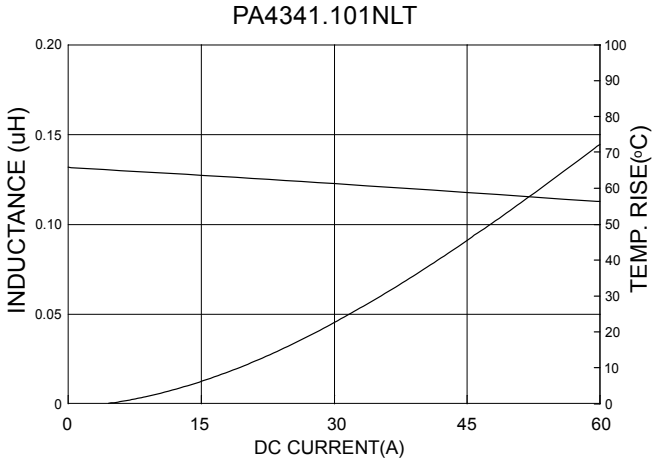
All Dimensions in mm.

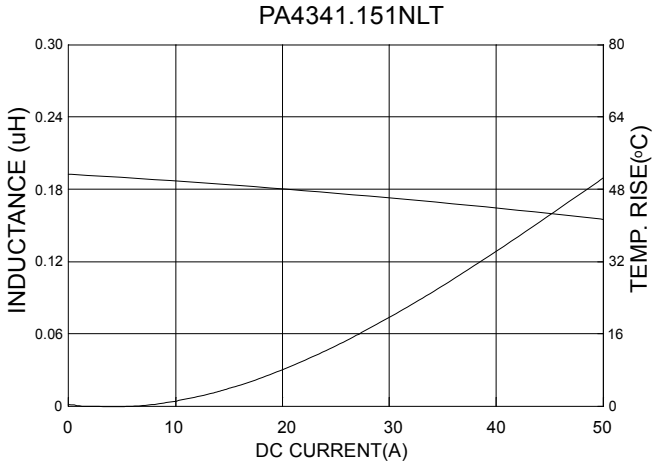
TAPE & REEL INFO



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
PA4341.XXXNLT	Ø330	N/A	16	100	1.75	7.5	1.5	12	4	2	16	0.35	3.3	1000

Typical Performance Curves

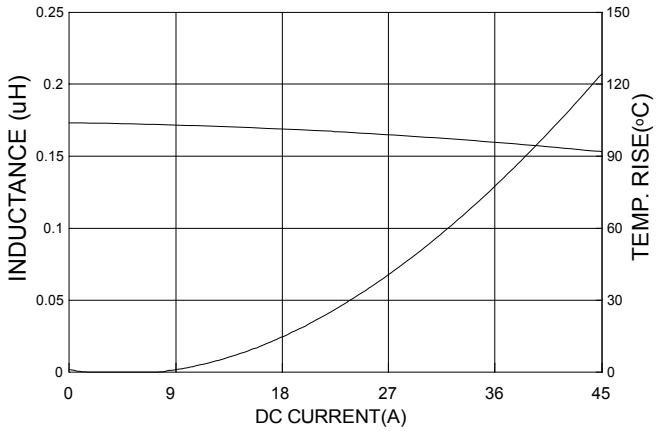




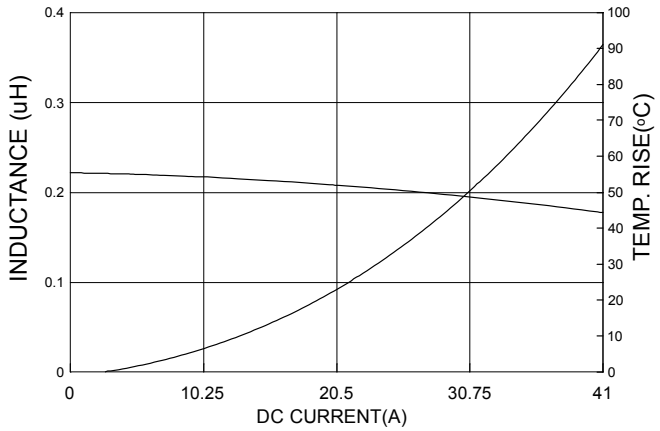
SMT Power Inductor

High Current Molded Power Inductor - PA4341.XXXNLT Series

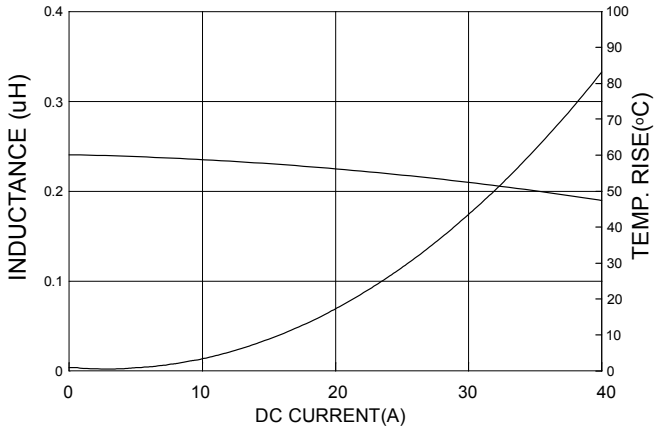
PA4341.161NLT



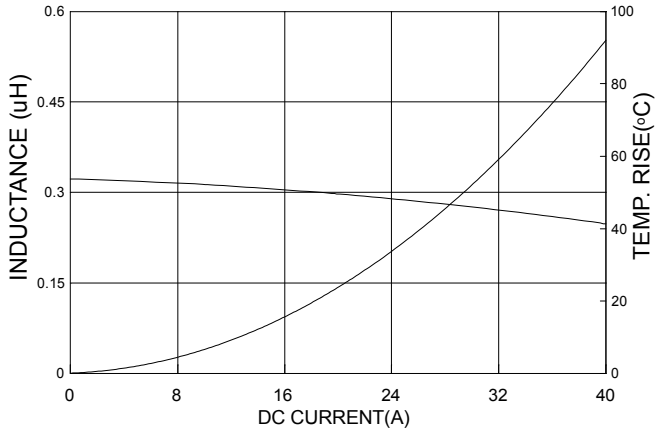
PA4341.201NLT



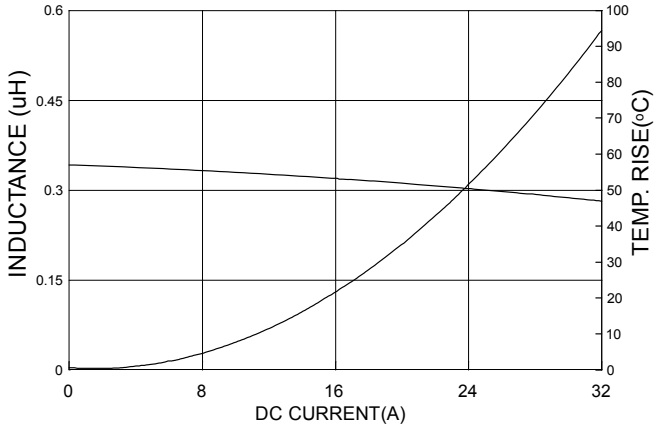
PA4341.221NLT



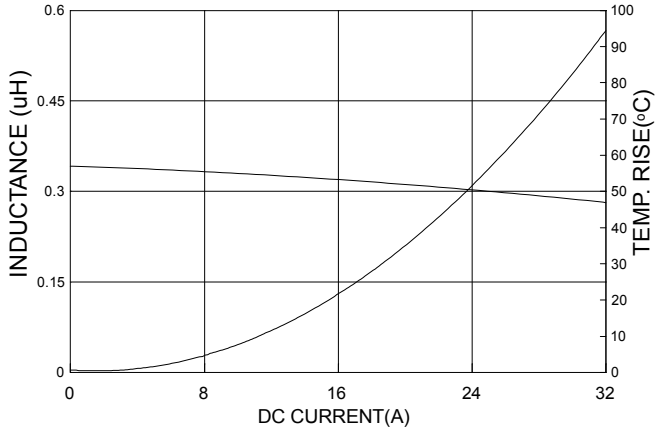
PA4341.301NLT



PA4341.331NLT



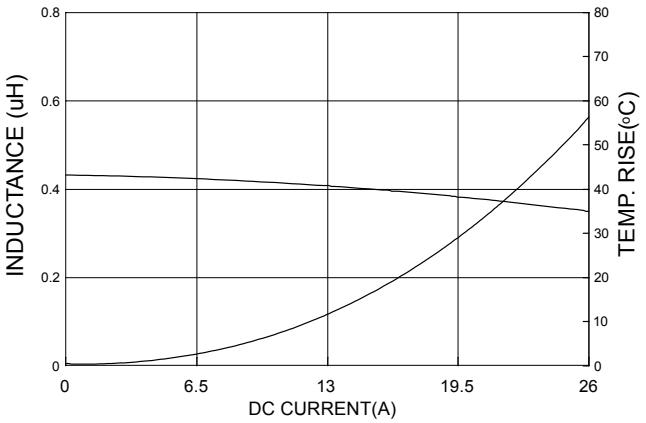
PA4341.361NLT



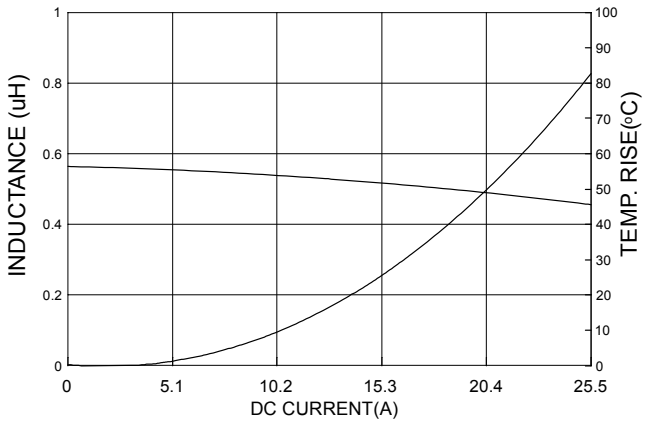
SMT Power Inductor

High Current Molded Power Inductor - PA4341.XXXNLT Series

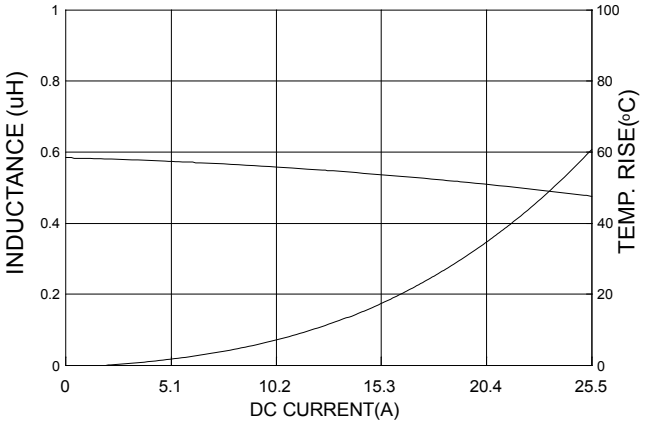
PA4341.471NLT



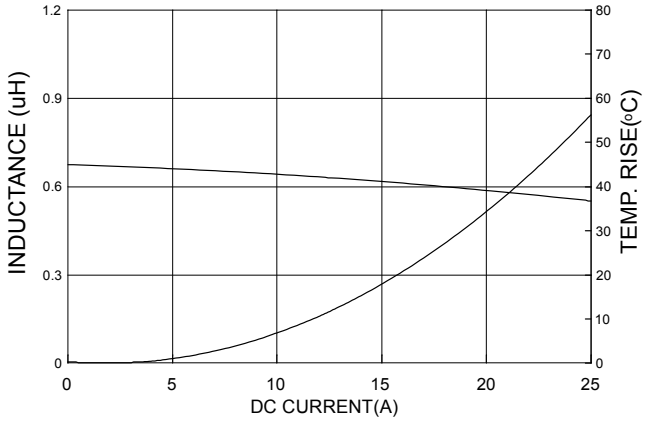
PA4341.561NLT



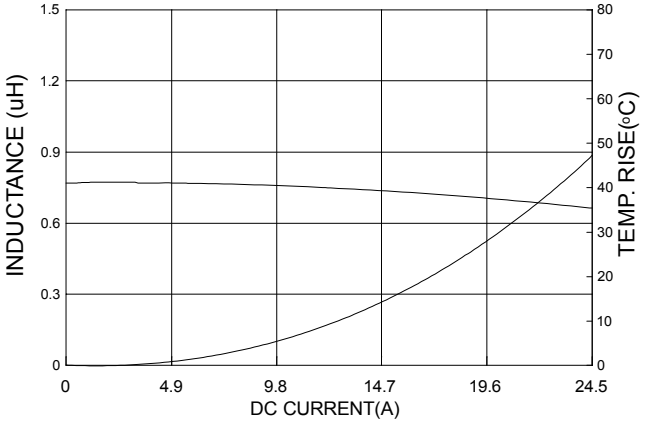
PA4341.601NLT



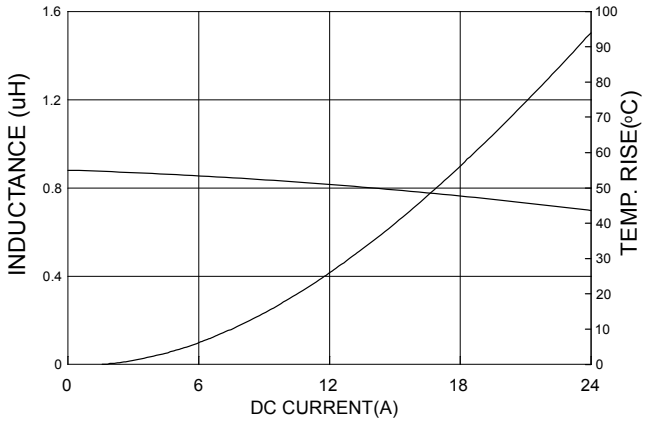
PA4341.681NLT



PA4341.751NLT



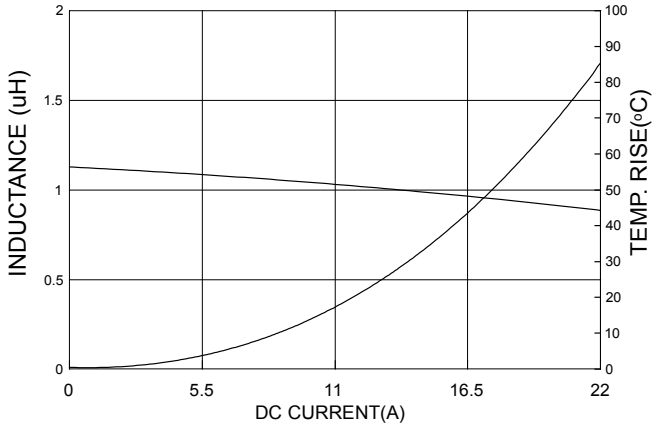
PA4341.821NLT



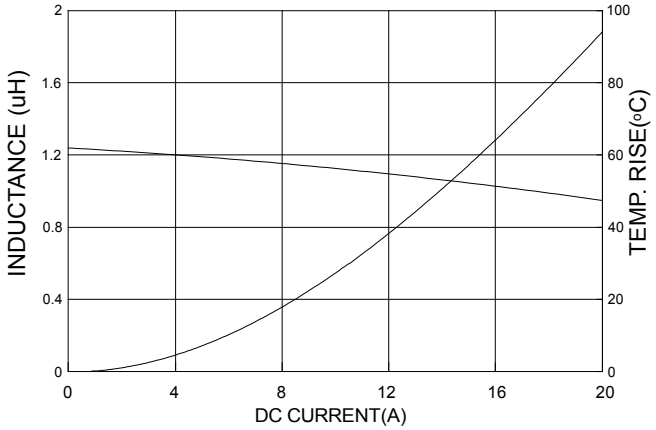
SMT Power Inductor

High Current Molded Power Inductor - PA4341.XXXNLT Series

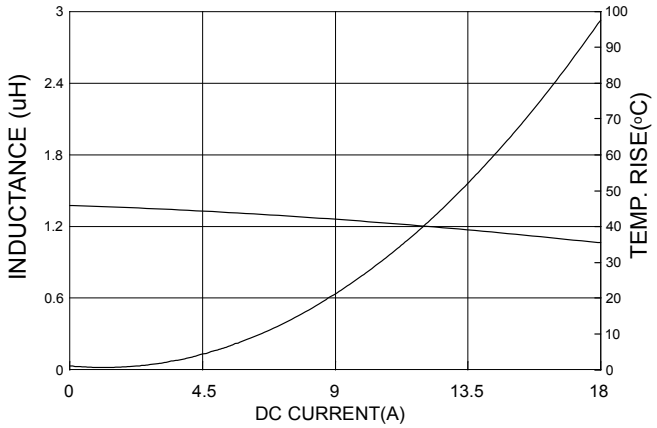
PA4341.102NLT



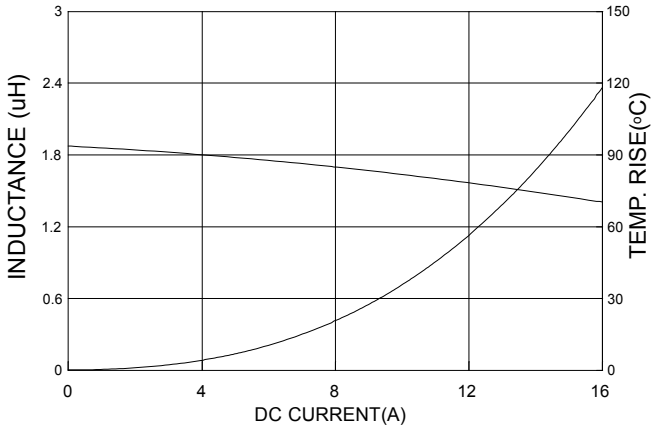
PA4341.122NLT



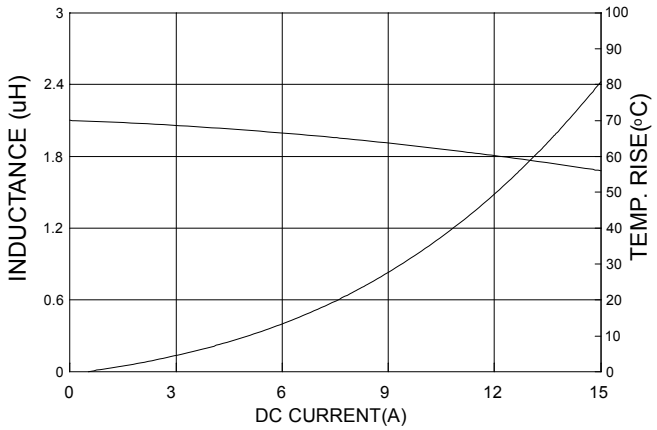
PA4341.152NLT



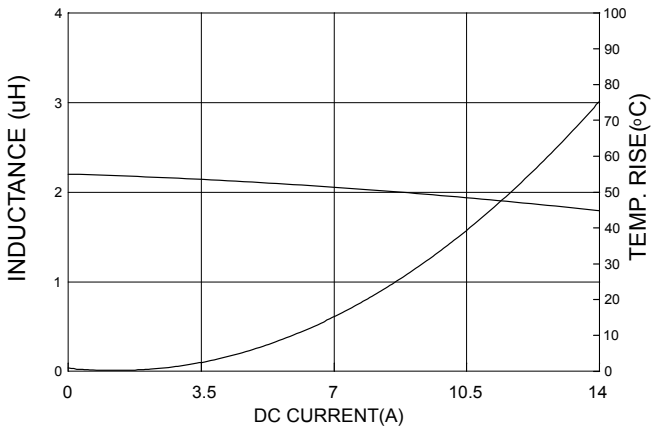
PA4341.182NLT



PA4341.202NLT



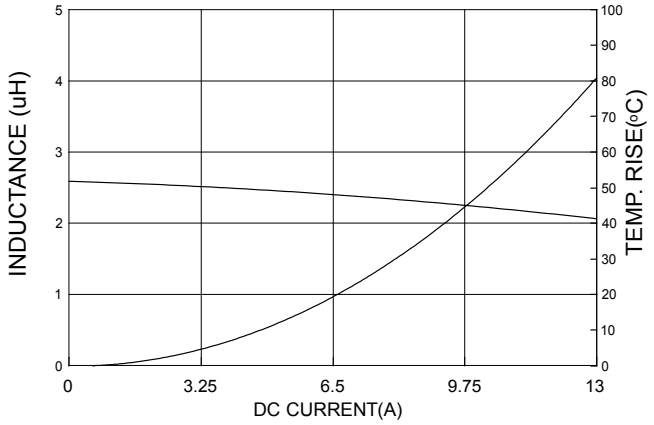
PA4341.222NLT



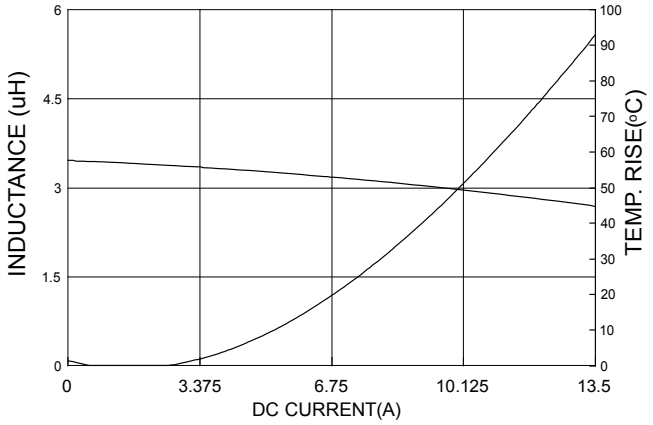
SMT Power Inductor

High Current Molded Power Inductor - PA4341.XXXNLT Series

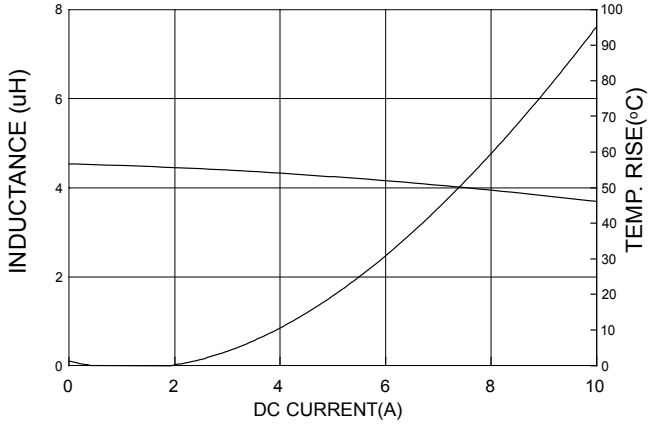
PA4341.252NLT



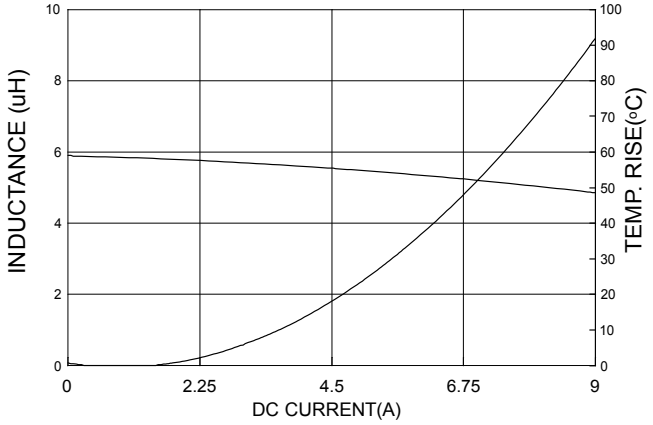
PA4341.332NLT



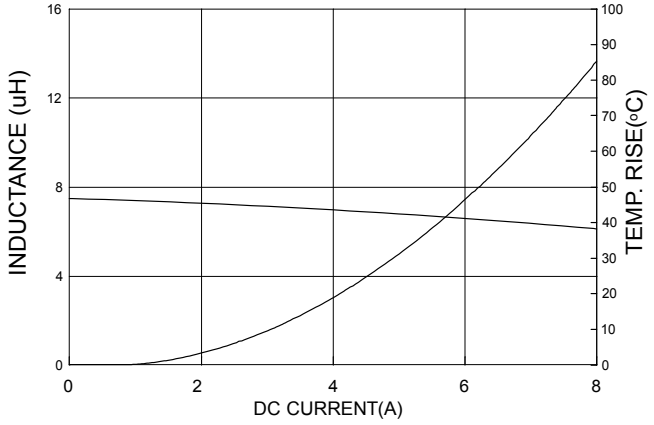
PA4341.472NLT



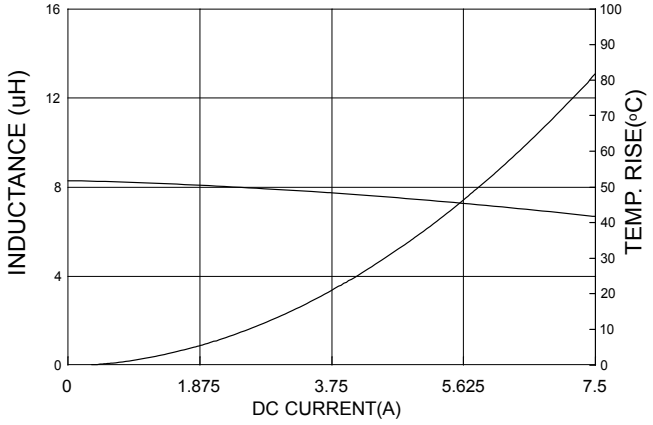
PA4341.562NLT



PA4341.682NLT



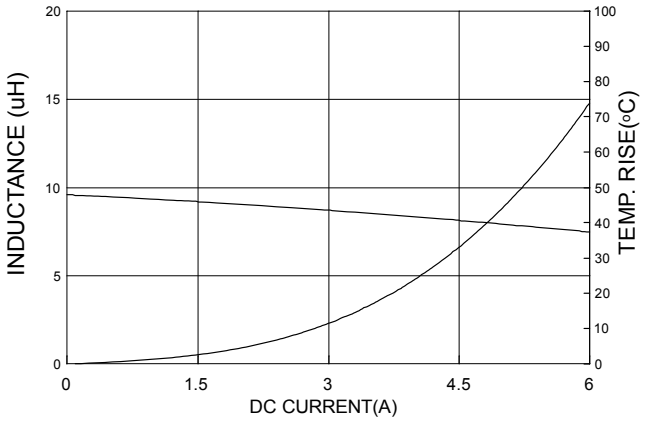
PA4341.822NLT



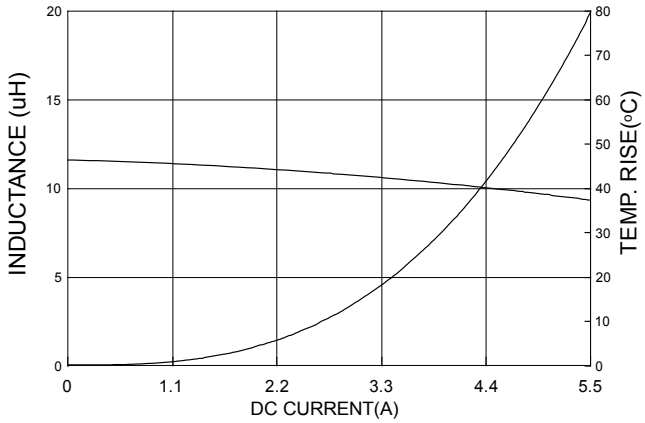
SMT Power Inductor

High Current Molded Power Inductor - PA4341.XXXNLT Series

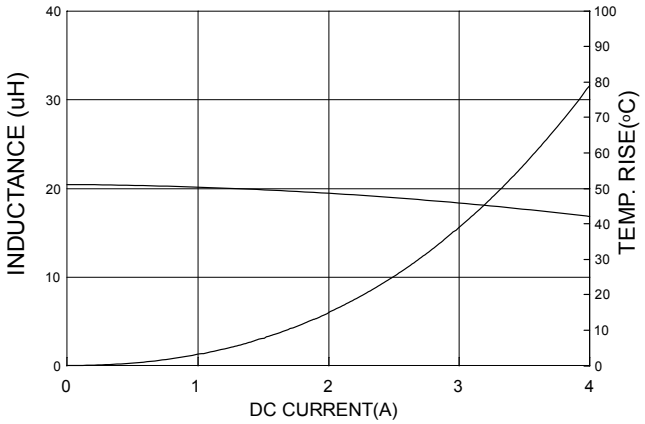
PA4341.103NLT



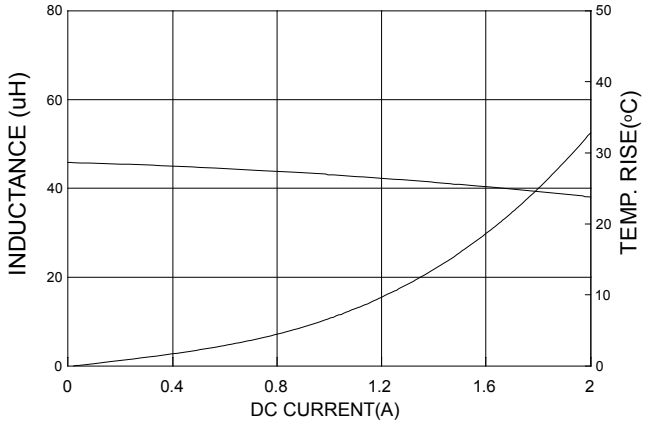
PA4341.123NLT



PA4341.223NLT



PA4341.473NLT



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