<sup>®</sup>pulse

High Current Molded Power Inductor - PA4343.XXXANLT Series







- *Height:* 6.5mm Max
- 🥐 🛛 Footprint: 14.0mm x 12.8mm Max
- 🙋 Current Rating: up to 42.0A
- Inductance Range: 0.22uH to 68.0uH
- Obielded construction and compact design
- Migh current, low DCR, and high efficiency
- Minimized acoustic noise and minimized leakage flux

Electrical Specifications @ 25°C - Operating Temperature -55°C to +155°C								
Part Number	Inductance 100KHz, 1V uH±20%	Rated Current A	-	)C stance	Saturation Current Max. A	Mechanical		
			MAX.	TYP.				
			mΩ	mΩ				
PA4343.221ANLT	0.22	42.0	0.46	0.4	105	Footprint 1		
PA4343.681ANLT	0.68	33.0	1.5	1.25	46.0	Footprint 1		
PA4343.102ANLT	1.00	29.0	1.8	1.5	36.0	Footprint 1		
PA4343.152ANLT	1.50	25.0	2.53	2.2	30.0	Footprint 1		
PA4343.222ANLT	2.20	21.0	4.2	3.7	24.0	Footprint 2		
PA4343.332ANLT	3.30	19.0	6.2	5.3	22.5	Footprint 2		
PA4343.472ANLT	4.70	17.0	8.0	6.8	21.0	Footprint 2		
PA4343.562ANLT	5.60	15.0	9.8	8.3	19.5	Footprint 2		
PA4343.682ANLT	6.80	14.0	11.3	9.8	18.0	Footprint 2		
PA4343.822ANLT	8.20	12.5	13.8	12.0	17.0	Footprint 2		
PA4343.103ANLT	10.0	11.0	15.8	13.0	15.0	Footprint 2		
PA4343.223ANLT	22.0	8.0	35.0	31.0	9.0	Footprint 2		
PA4343.333ANLT	33.0	6.5	55.0	46.0	8.0	Footprint 2		
PA4343.683ANLT	68.0	4.8	100	82.0	5.0	Footprint 2		

#### Notes:

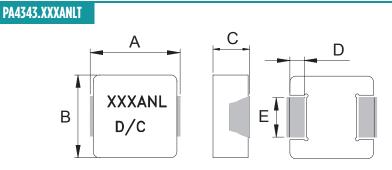
- 1. Actual temperature of the component during system operation (ambient plus temperature rise) must be within the standard operating range. 3. The rated current is the DC current required to raise the component temperature by approximately 40 °C. Take note that the components' performanc varies depending
- 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.
  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.
  The part temperature (ambient+temp rise) should not exceed 155 °C under worst case operating conditions. Circuit design, PCB trace size and thickness, airflow and other component.
- 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 155 °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.

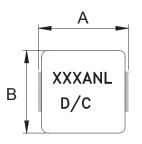
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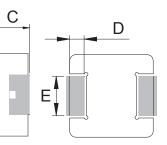


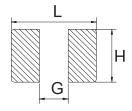
Mechanical



### Footprint 1







Footprint 2

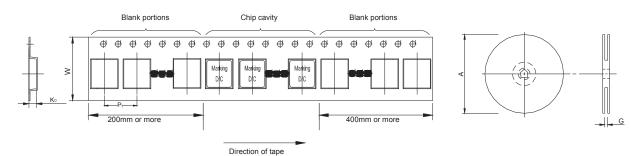
Final Layout

SUGGESTED PAD LAYOUT

Series	Mechanical	A	В	C	D	E	L	G	H
PA4343.XXXANLT	Footprint 1	13.5±0.5	12.6±0.2	6.2±0.3	2.3±0.3	4.0±0.3	14.5	8.0	5.0
PA4343.XXXANLT	Footprint 2	13.5±0.5	12.6±0.2	6.2±0.3	2.3±0.3	4.7±0.3	14.5	8.0	5.0

All Dimensions in mm.

### **TAPE & REEL INFO**



SURFACE MOUNTING TYPE, REEL/TAPE LIST								
FVDF	REEL SIZE (mm)		TA	QTY				
FYPE	A	G	<b>P</b> <sub>1</sub>	W	K	PCS/REEL		
PA4343.XXXANLT	<b>Ø</b> 330	24.4	16	24	7.0	500		

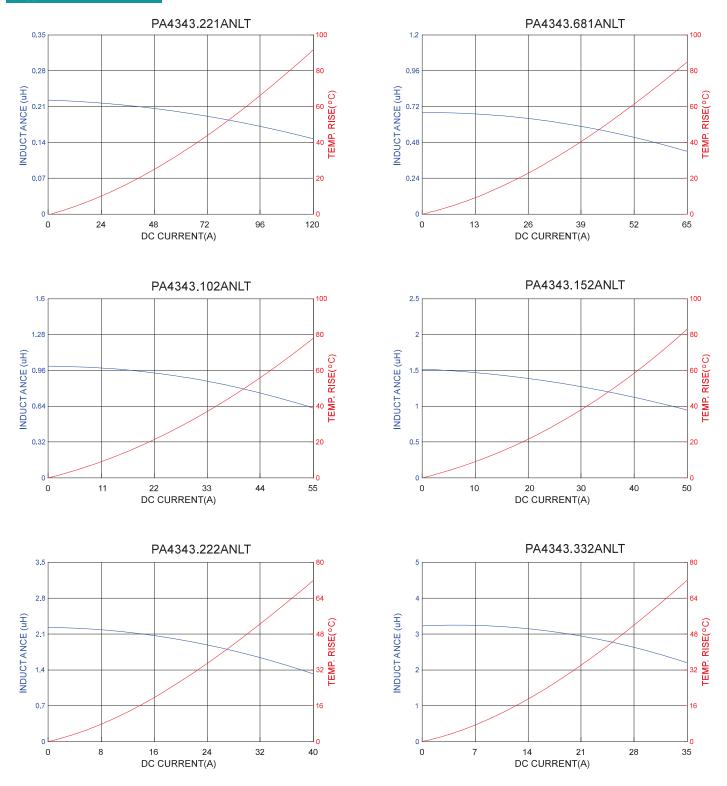
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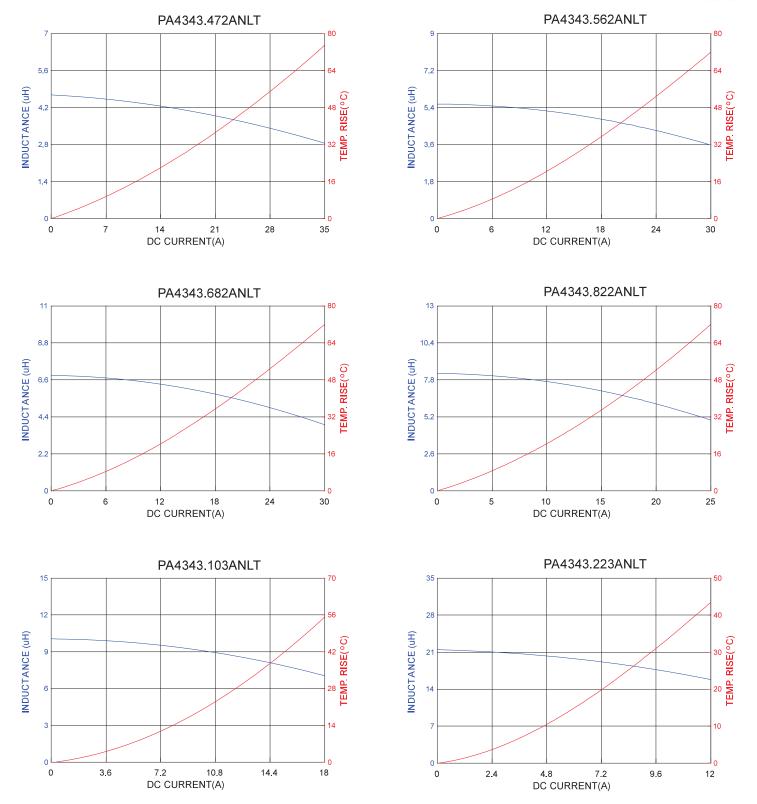
#### **Typical Performance Curves**

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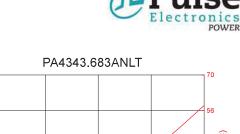
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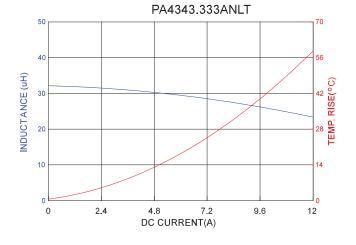


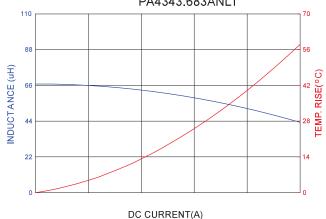


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