

SMT Power Inductor

High Current Molded Power Inductor - PA4340.XXXANLT Series



- Ⓟ **Height:** 3.0mm Max
- Ⓟ **Footprint:** 6.0mm x 5.4mm Max
- Ⓟ **Current Rating:** up to 18.0A
- Ⓟ **Inductance Range:** 0.20uH to 22.0uH

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 -55°C to +155°C

Part Number ^{6,7}	 Inductance ^{5,8} 100KHz, 1V	Rated ³ Current	DC Resistance		Saturation ² Current	SRF	K Factor
			TYP.	MAX.			
	uH±20%	A	mΩ	mΩ	A	MHz	
PA4340.201ANLT	0.20	18.0	2.5	2.8	21	133	587.4
PA4340.331ANLT	0.33	16.0	4.5	5.4	10	100	655.0
PA4340.471ANLT	0.47	13.5	5.2	6.0	9.0	75	535.9
PA4340.681ANLT	0.68	12.5	7.4	8.5	8.0	65	343.0
PA4340.821ANLT	0.82	10.0	8.0	9.2	7.7	52	290.2
PA4340.102ANLT	1.00	9.0	10.5	12.0	7.5	50	225.9
PA4340.152ANLT	1.50	8.0	13.6	15.7	6.5	38	172.8
PA4340.222ANLT	2.20	7.0	21.6	25.0	5.8	30	139.9
PA4340.332ANLT	3.30	6.3	28.0	33.0	5.3	24	92.3
PA4340.472ANLT	4.70	5.5	38.0	44.0	4.6	20	78.6
PA4340.562ANLT	5.60	5.0	50.0	58.0	4.0	18	68.5
PA4340.682ANLT	6.80	4.3	57.0	66.0	3.1	17	76.0
PA4340.103ANLT	10.0	3.8	88.0	103	2.1	14	79.2
PA4340.153ANLT	15.0	2.9	140	170	1.7	12	51.1
PA4340.223ANLT	22.0	2.4	190	228	1.7	10	39.1

SMT Power Inductor

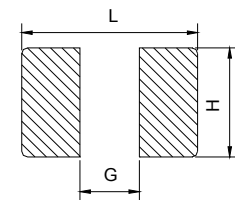
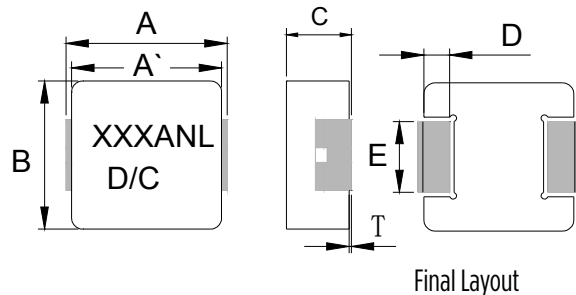
High Current Molded Power Inductor - PA4340.XXXANLT Series

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 by approximately 30% at the stated ambient temperature. The maximum allowable drop at this stated current is 40% of the initial inductance. 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' performance 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 maximum operating temperature 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 of all parts are $\pm 20\%$, except those indicated by an * which are $\pm 30\%$.
6. Parts shown in bold are standard catalog parts and are available through sample stock and distribution. Parts in lighter font are available but are not necessarily held in sample stock or distribution and lead times may be longer. Please contact Pulse for availability.
7. The PM prefix parts are AEC-Q200 qualified and has full automotive IATF16949 certification. The mechanical dimensions are 100% tested in production but do not necessarily meet a product capability index (Cpk) 1.33 and therefore may not strictly conform to PPAP.
8. Special Characteristics

Mechanical

PA4340.XXXANLT

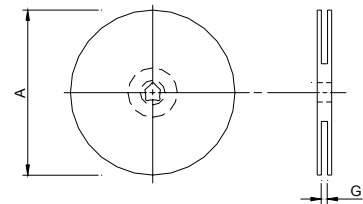
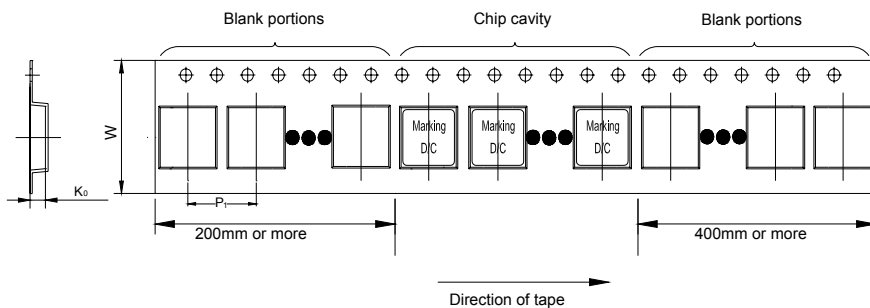


SUGGESTED PAD LAYOUT

Series	A	A'	B	C	D	E	T	L	G	H
PA4340.XXXANLT	5.7 $\pm$ 0.3	5.2 $\pm$ 0.3	5.2 $\pm$ 0.2	2.8 $\pm$ 0.2	1.0 $\pm$ 0.3	2.0 $\pm$ 0.2	0-0.15	6.0	2.8	2.5

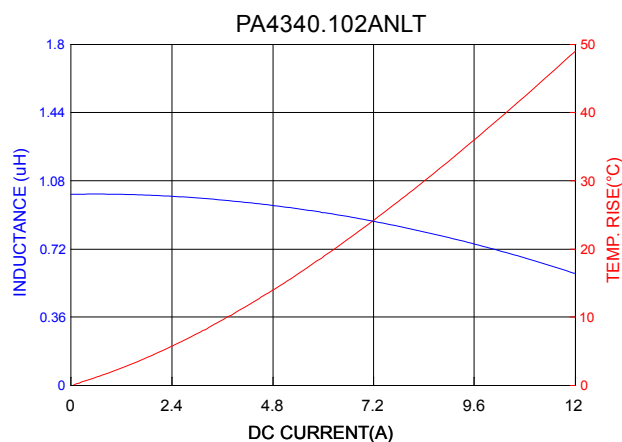
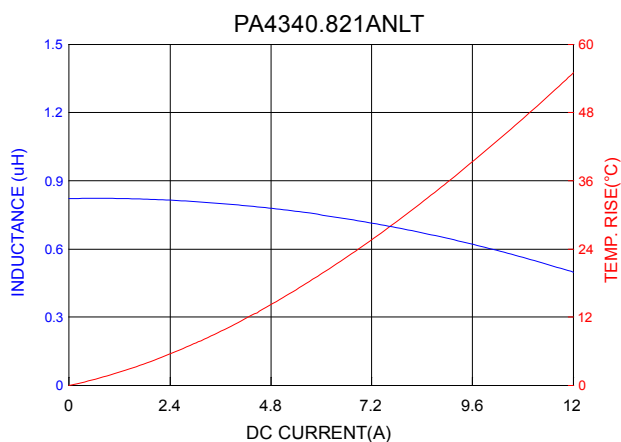
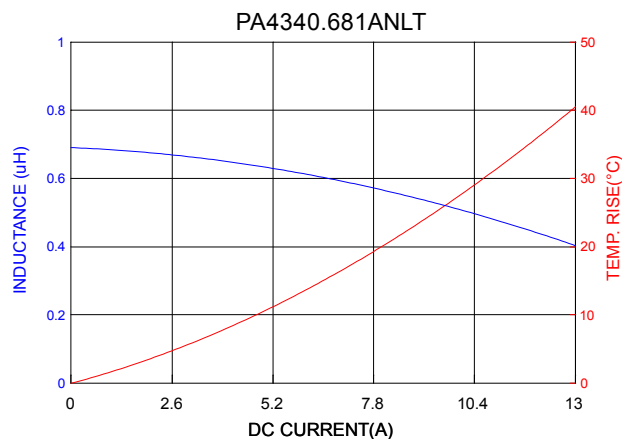
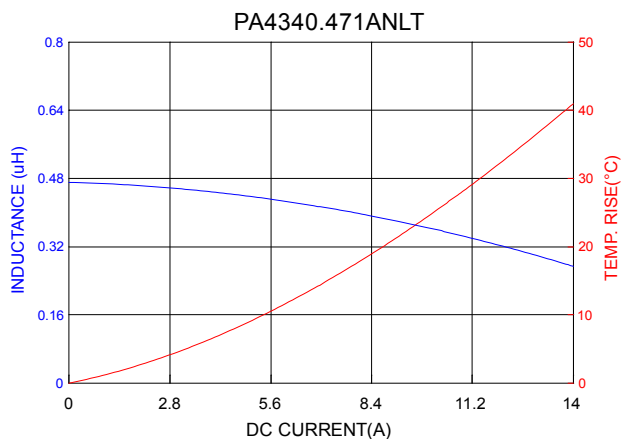
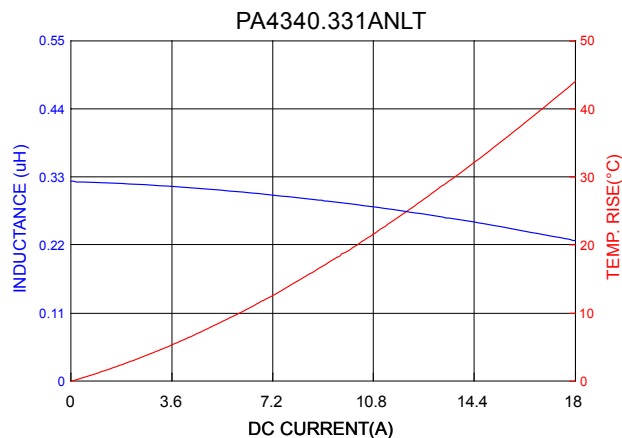
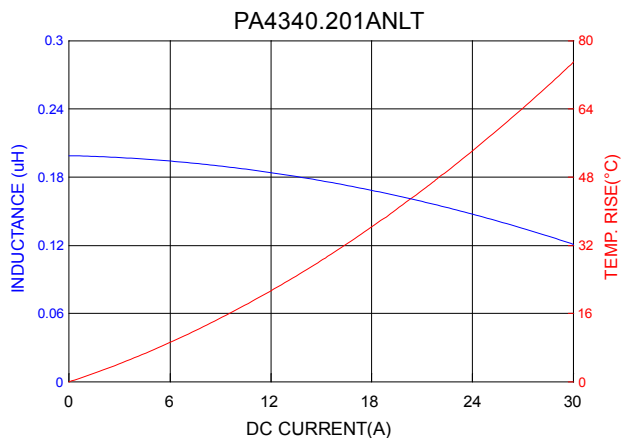
All Dimensions in mm.

TAPE & REEL INFO



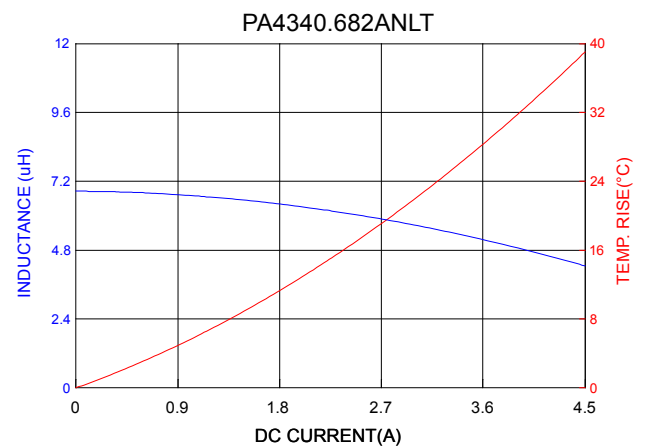
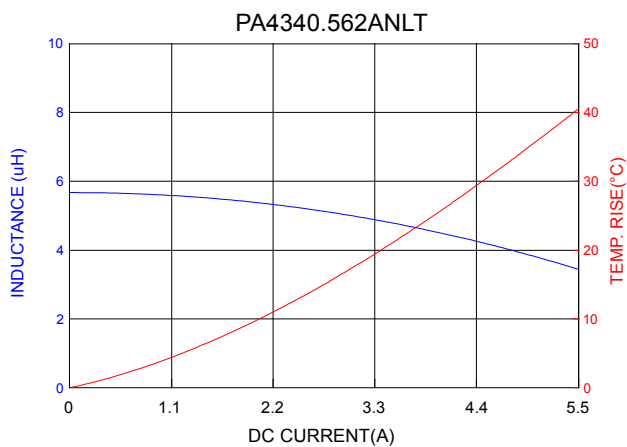
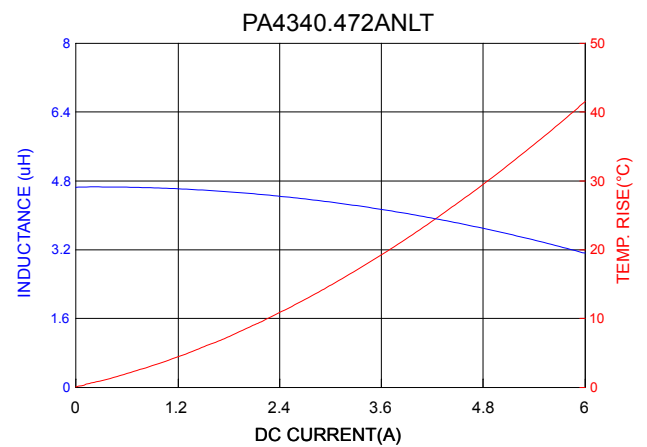
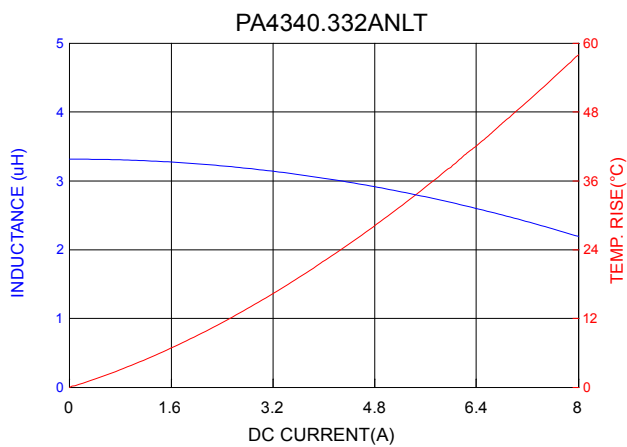
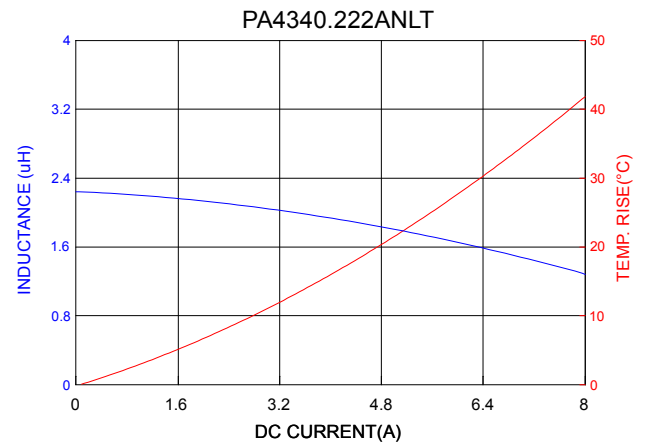
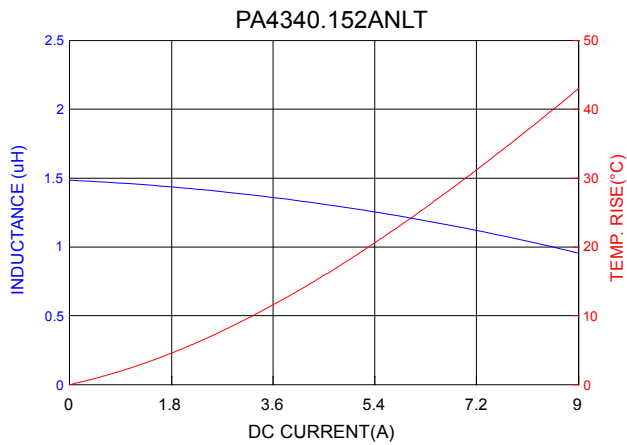
SURFACE MOUNTING TYPE, REEL/TAPE LIST						
	REEL SIZE (mm)		TAPE SIZE (mm)			QTY
	A	G	P ₁	W	K ₀	PCS/REEL
PA4340.XXXANLT	Ø330	12.4 $\pm$ 2/-0	8.0 $\pm$ 0.1	12.0 $\pm$ 0.3	3.3 $\pm$ 0.1	2000

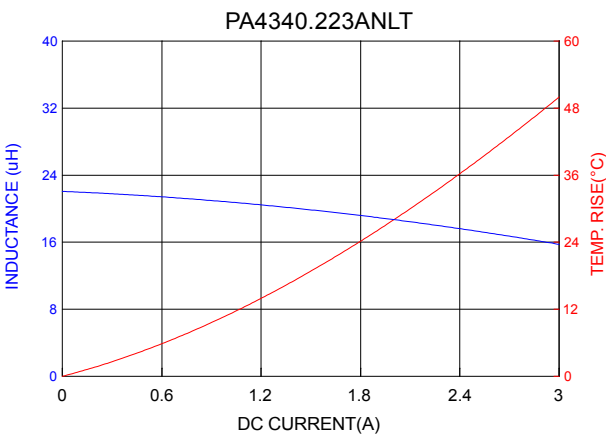
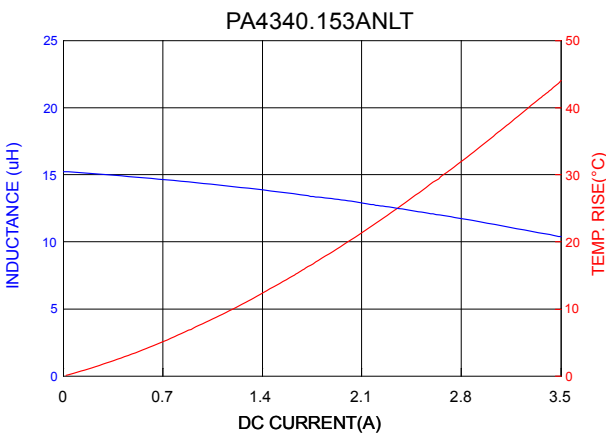
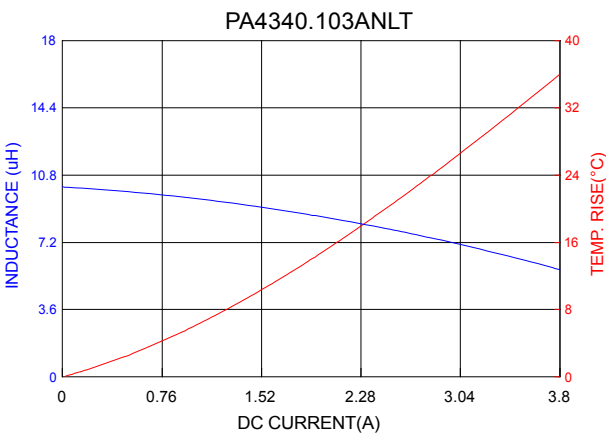
Typical Performance Curves



SMT Power Inductor

High Current Molded Power Inductor - PA4340.XXXANLT Series

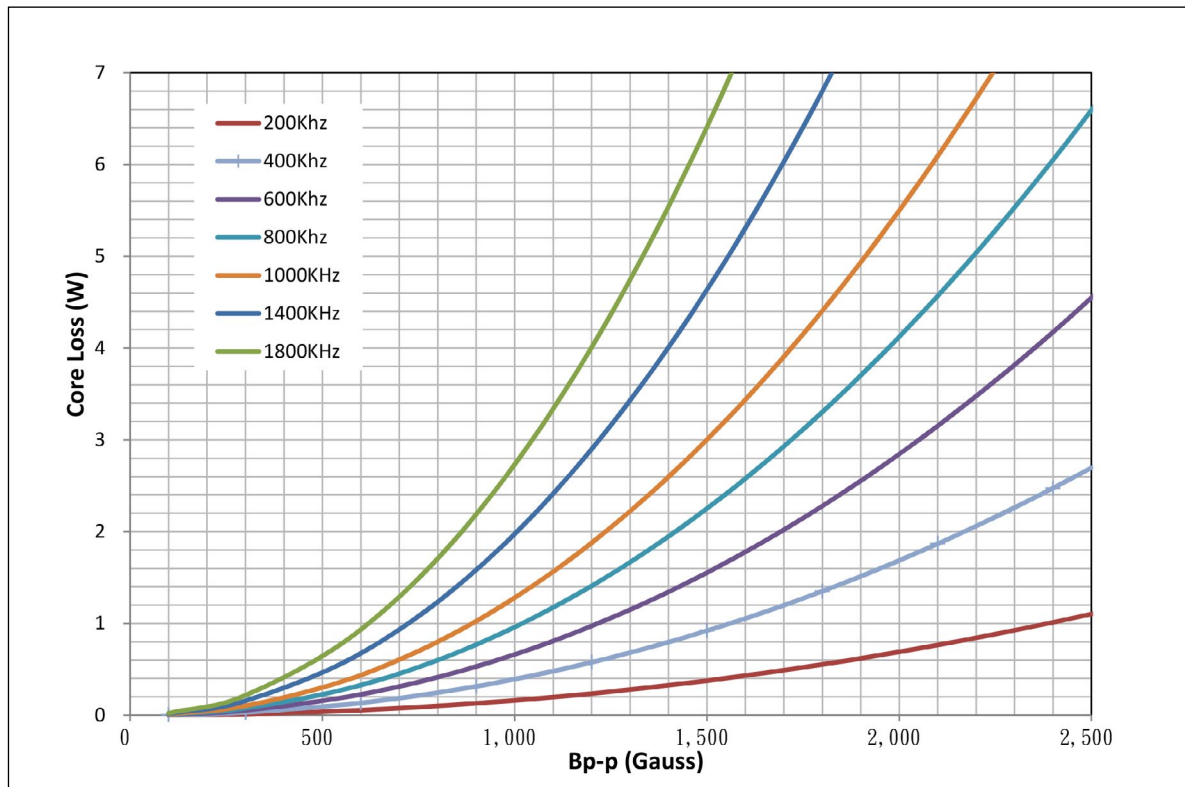




SMT Power Inductor

High Current Molded Power Inductor - PA4340.XXXANLT Series

Core Loss



$$Bp-p = K * L(uH) * \Delta I(A)$$

For More Information:

Americas - prodinfo_power@pulseelectronics.com | Europe - power-apps-europe@pulseelectronics.com | Asia - power-apps-asia@pulseelectronics.com

Performance warranty of products offered on this data sheet is limited to the parameters specified. Data is subject to change without notice. Other brand and product names mentioned herein may be trademarks or registered trademarks of their respective owners. © Copyright, 2020. Pulse Electronics, Inc. All rights reserved.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Pulse:

[PA4340.223ANLT](#)