High Current Molded Power Inductor - PA4343.XXXANLT Series







e Height: 6.5mm Max

Footprint: 14.0mm x 12.8mm Max

- *Current Rating:* up to 53A
- Inductance Range: 0.22uH to 68uH
- Shielded construction and compact design
- Ø High current, low DCR, and high efficiency
- Ø Minimized acoustic noise and minimized leakage flux
- @ 200 Vdc Isolation between terminal and core

	Electr	rical Specificatior Rated ³ Current A	ns @ 25°C – Operating Temperatur DC Resistance		re -55°C to +155°C Saturation ² Current	SRF		
Part Number	100KHz, 1V uH±20%		TYP.	MAX.	TYP.	TYP. MHz	Mechanical	K Factor
			mΩ	mΩ	A			
PA4343.221ANLT	0.22	42	0.4	0.46	105	130	Footprint 1	93.5
PA4343.331ANLT	0.33	36	0.6	0.70	65	80	Footprint 1	106.1
PA4343.471ANLT	0.47	35	0.88	1.02	58	70	Footprint 1	60.4
PA4343.561ANLT	0.56	33.5	1.1	1.3	50	62	Footprint 1	60.4
PA4343.681ANLT	0.68	33	1.25	1.5	46	58	Footprint 1	75.8
PA4343.821ANLT	0.82	31	1.3	1.65	39	56	Footprint 1	68.7
PA4343.102ANLT	1.0	29	1.5	1.8	36	43	Footprint 1	53.5
PA4343.152ANLT	1.5	25	2.2	2.53	30	33	Footprint 1	38.1
PA4343.222ANLT	2.2	21	3.7	4.2	24	25	Footprint 2	32.2
PA4343.242ANLT	2.4	20.5	3.9	4.5	23.5	23	Footprint 2	
PA4343.332ANLT	3.3	19	5.3	6.2	22.5	17	Footprint 2	22.6
PA4343.472ANLT	4.7	17	6.8	8.0	21	15	Footprint 2	16.5
PA4343.562ANLT	5.6	15	8.3	9.8	19.5	14	Footprint 2	16.5
PA4343.682ANLT	6.8	14	9.8	11.3	18	12	Footprint 2	12.0
PA4343.822ANLT	8.2	12.5	12	13.8	17	10	Footprint 2	11.0
PA4343.103ANLT	10	11	13	15.8	15	10	Footprint 2	10.1
PA4343.223ANLT	22	8	31	35	9	6	Footprint 2	8.6
PA4343.333ANLT	33	6.5	46	55	8	4	Footprint 2	5.1
PA4343.473ANLT	47	5.7	58	67	6.8	4	Footprint 2	6.2
PA4343.683ANLT	68	4.8	82	100	5.0	3	Footprint 2	4.7

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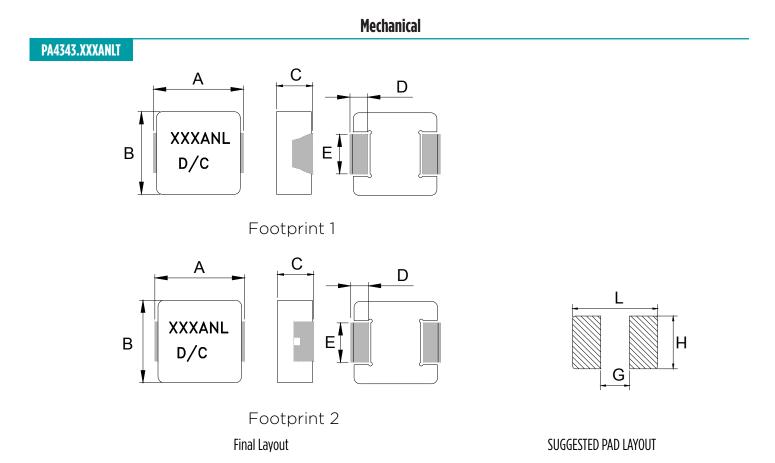
Pulse

Notes:

- 1. Actual temperature of the component during system operation (ambient plus temperature rise) must be within the standard operating range.
- 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' 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 maximum operating 8. 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.

- Please note that the inductance tolerance of all parts are $\pm 20\%$, except those indicated by an * which are +/- 30%.
- 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 availablity.
- 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.
 - Special Characteristics 💭



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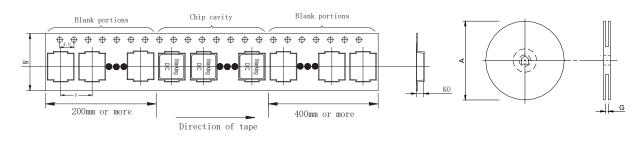
Series	Mechanical	A	В	C	D	E	L	G	Н
PA4343.XXXANLT	Footprint 1	13.5±0.5	12.6±0.2	6.2±0.3	1.1±0.3	4.0±0.3	14.5	8.0	5.0
PA4343.XXXANLT	Footprint 2	13.5±0.5	12.6±0.2	6.2±0.3	1.1±0.3	4.7±0.3	14.5	8.0	5.0

All Dimensions in mm.

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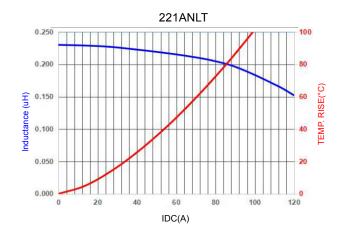


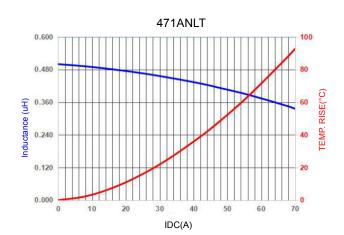
TAPE & REEL INFO

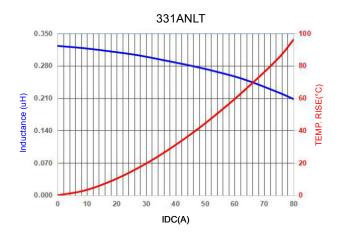


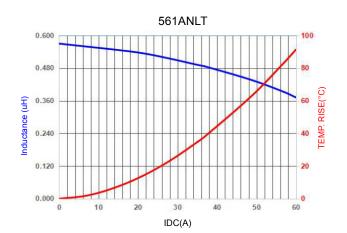
SURFACE MOUNTING TYPE, REEL/TAPE LIST										
	REEL SIZ	'E (mm)	TA	QTY						
	А	G	P ₁	W	K _o	PCS/REEL				
PA4343.XXXANLT	Ø330	24.4	16	24	7.0	500				

Typical Performance Curves



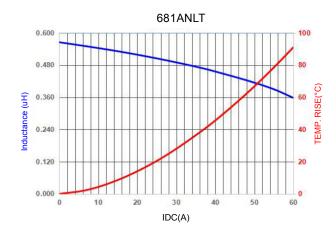


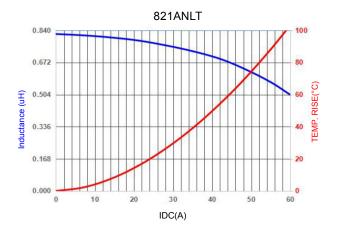


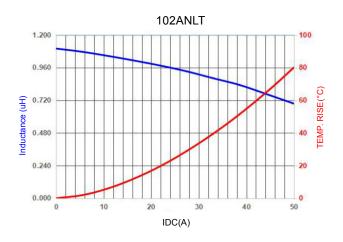


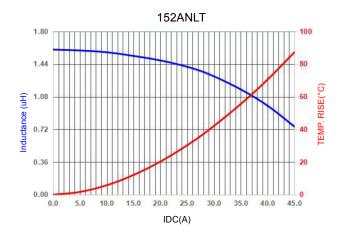
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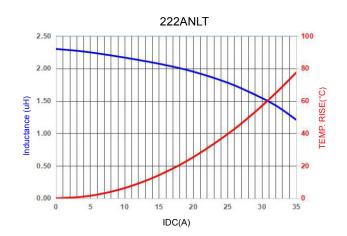


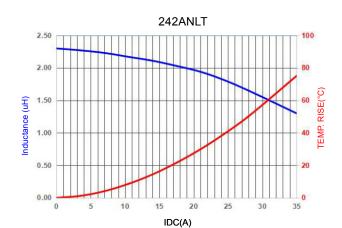








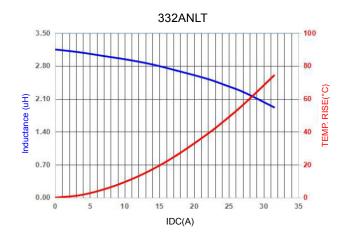


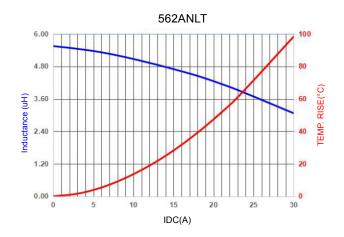


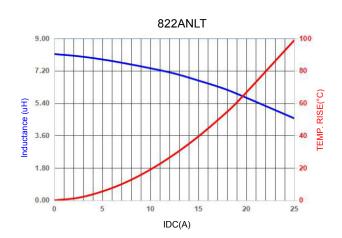
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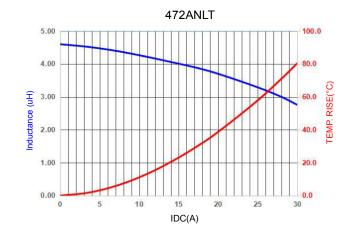
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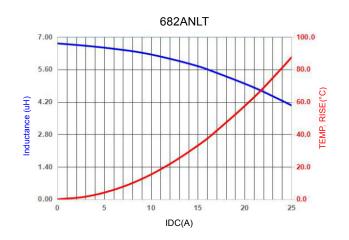


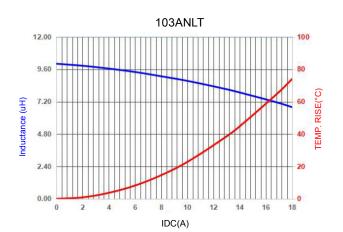






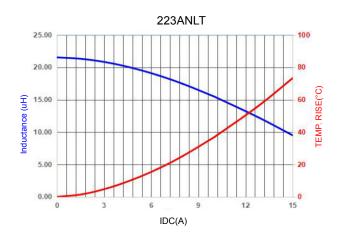


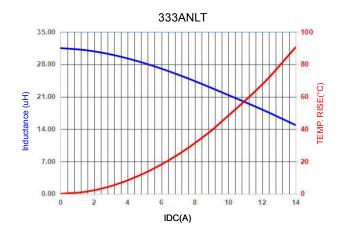


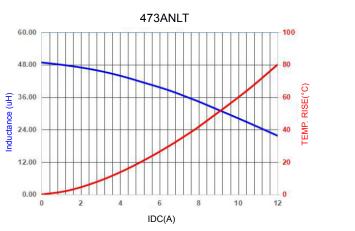


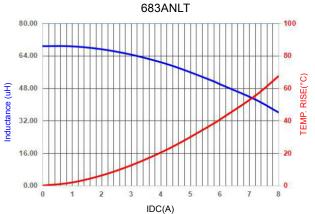
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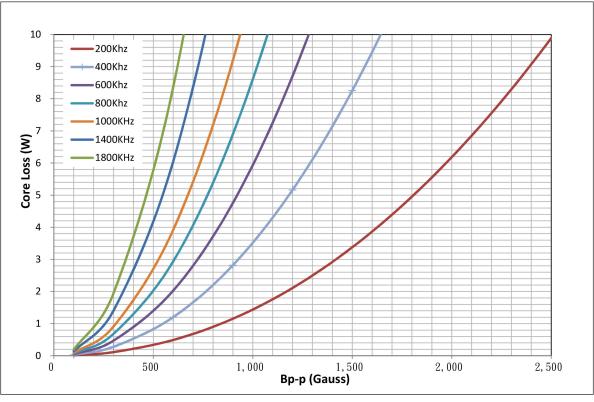






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Core Loss



Bp-p = K *L(uH) *delta I(A)

For More Information:

Americas - prodinfo_power_americas@yageo.com | Europe - prodinfo_power_emea@yageo.com | Asia - prodinfo_power_asia@yageo.com

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7

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