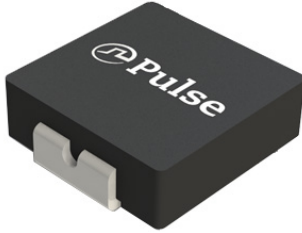


SMT Power Inductor

High Current Molded Power Inductor - PA4345.XXXNLT & PM4345.XXXNLT Series



- Ⓢ **Height:** 2.0mm Max
- Ⓢ **Footprint:** 6mm x 5.4mm Max
- Ⓢ **Current Rating:** up to 43.0A
- Ⓢ **Inductance Range:** 0.15uH to 68.0uH
- Ⓢ 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 -55°C to +125°C

Commercial ^{6,7}	Automotive ^{6,7}	Inductance ⁵ 100KHz, 1V uH±20%	Rated ⁵ Current A	DC Resistance		Saturation ² Current A
				TYP.	MAX.	
				mΩ	mΩ	
PA4345.101NLT	PM4345.101NLT	0.10*	18.0	3.6	4.0	45.0
PA4345.121NLT	PM4345.121NLT	0.12*	17.0	3.7	4.3	35.0
PA4345.151NLT	PM4345.151NLT	0.15*	16.0	3.8	4.6	27.0
PA4345.221NLT	PM4345.221NLT	0.22	15.0	4.0	5.5	25.0
PA4345.241NLT	PM4345.241NLT	0.24	13.0	6.0	7.0	23.0
PA4345.331NLT	PM4345.331NLT	0.33	12.0	6.3	7.3	21.3
PA4345.361NLT	PM4345.361NLT	0.36	11.8	6.8	7.8	20.0
PA4345.471NLT	PM4345.471NLT	0.47	11.5	7.3	8.6	18.0
PA4345.561NLT	PM4345.561NLT	0.56	10.7	9.3	11.2	15.0
PA4345.681NLT	PM4345.681NLT	0.68	10.0	11.0	12.4	12.8
PA4345.821NLT	PM4345.821NLT	0.82	8.5	15.0	18.0	14.0
PA4345.102NLT	PM4345.102NLT	1.0	7.0	17.5	20.0	13.7
PA4345.122NLT	PM4345.122NLT	1.2	6.2	23.0	28.0	11.0
PA4345.152NLT	PM4345.152NLT	1.5	5.5	26.5	30.5	9.8
PA4345.222NLT	PM4345.222NLT	2.2	4.2	42.0	50.0	9.0
PA4345.272NLT	PM4345.272NLT	2.7	4.0	50.0	58.0	8.2
PA4345.332NLT	PM4345.332NLT	3.3	3.3	66.0	76.0	7.3
PA4345.472NLT	PM4345.472NLT	4.7	2.8	103	116	5.0
PA4345.562NLT	PM4345.562NLT	5.6	2.5	112	122	4
PA4345.682NLT	PM4345.682NLT	6.8	2.4	130	150	3.8


SMT Power Inductor

High Current Molded Power Inductor - PA4345.XXXNLT & PM4345.XXXNLT Series

Electrical Specifications @ 25°C - Operating Temperature -55°C to +125°C

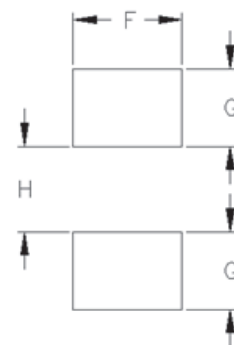
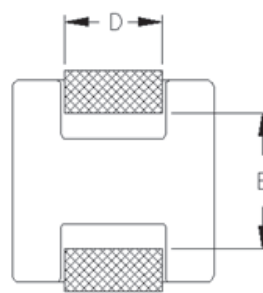
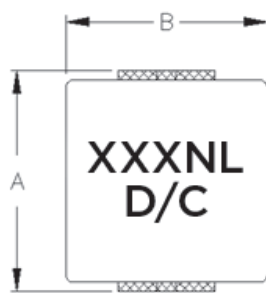
Commercial ^{6,7}	Automotive ^{6,7}	Inductance ⁵ 100KHz, 1V ($\mu\text{H} \pm 20\%$)	Rated ³ Current A	DC Resistance		Saturation ² Current A
				TYP.	MAX.	
				m Ω	m Ω	
PA4345.822NLT	PM4345.822NLT	8.2	2.3	148	171	3.5
PA4345.103NLT	PM4345.103NLT	10	2.3	180	199	3.4
PA4345.153NLT	PM4345.153NLT	15	1.9	240	270	2.8
PA4345.223NLT	PM4345.223NLT	22	1.5	350	390	1.8

Notes:

- 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 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.
- 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.
- 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.
- Please note that the inductance tolerance of all parts are +/-20% except those indicated with a * 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 availability.
- Both the PA and PM part numbers are AEC-Q200 qualified parts. The PM part numbers have full automotive IATF16949 certification. The PM part number 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 

Mechanical

PA4345/PM4345



Final Layout

SUGGESTED PAD LAYOUT

Series	A	B	C	D	E	F	G	H
PA4345/PM4345	6.0 Max	5.4 Max	2.0 Max	(2.5)	(3.5)	(2.8)	(2.0)	(2.2)

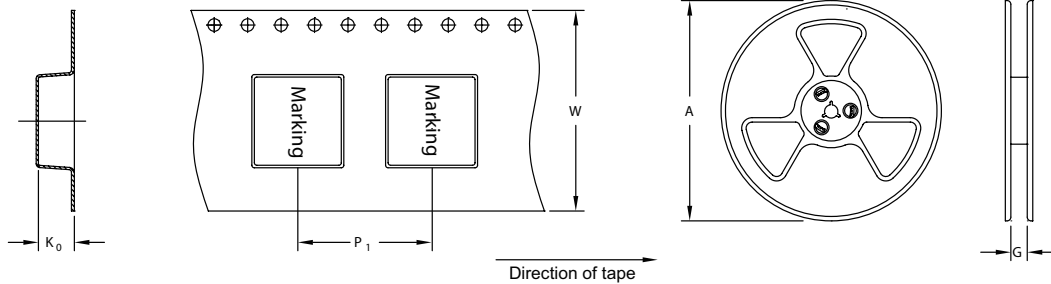
All Dimensions in mm.

SMT Power Inductor

High Current Molded Power Inductor - PA4345.XXXNLT & PM4345.XXXNLT Series



TAPE & REEL INFO

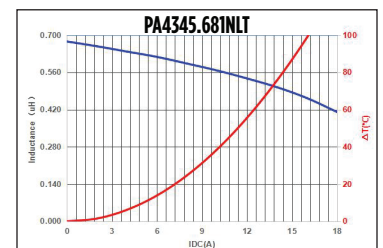
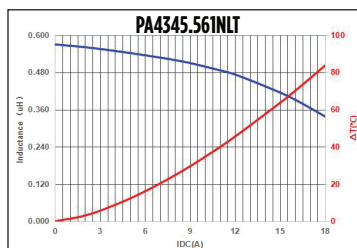
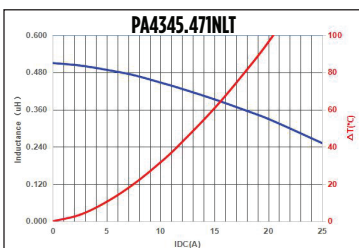
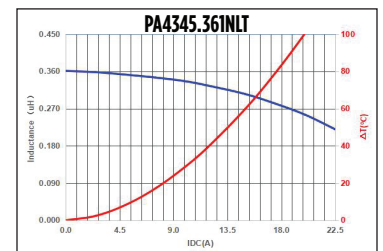
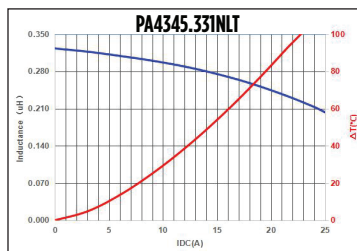
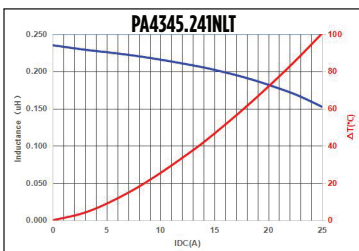
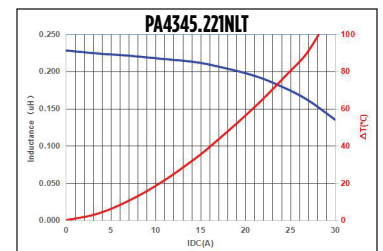
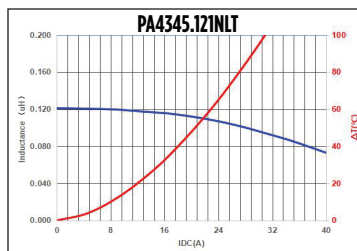
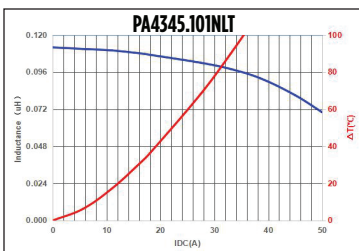


SURFACE MOUNTING TYPE, REEL/TAPE LIST

	REEL SIZE (mm)		TAPE SIZE (mm)			QTY
	A	G	P ₁	W	K ₀	PCS/REEL
PA4345/PM4345	Ø330	12	8	12	2.3	3000

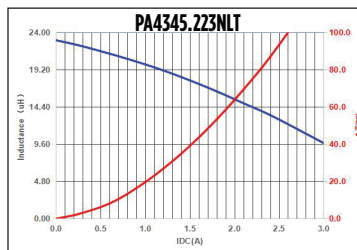
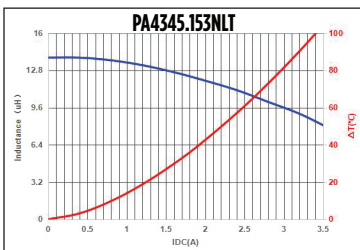
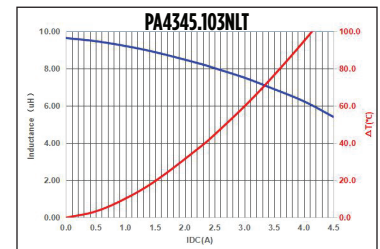
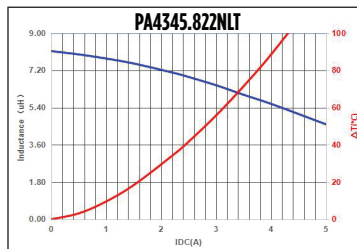
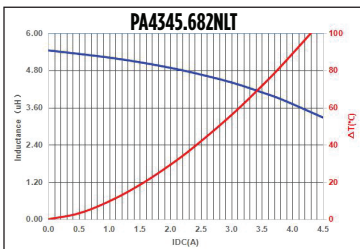
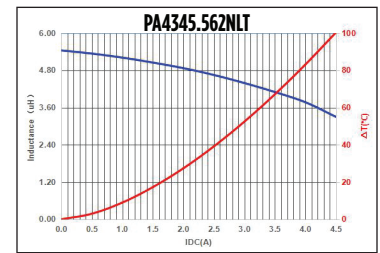
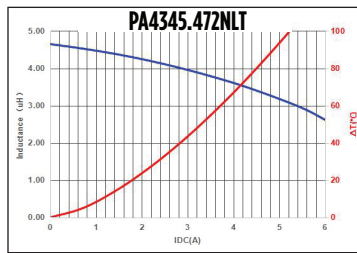
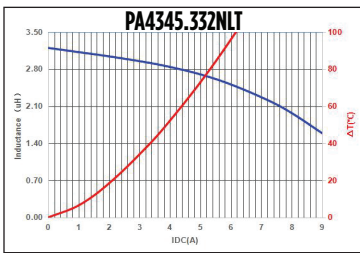
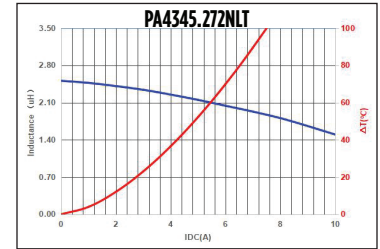
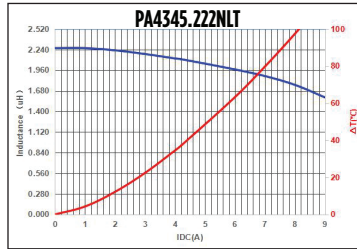
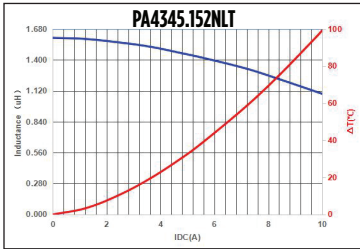
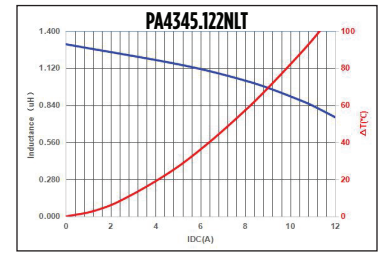
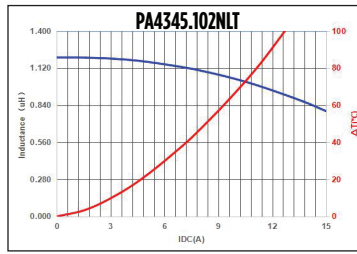
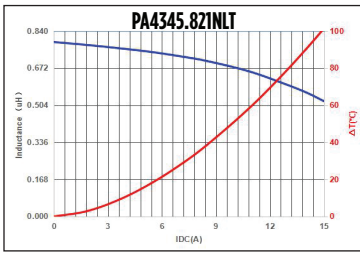
Typical Performance Curves

PA4345.XXXNLT and PM4345.XXXNLT



SMT Power Inductor

High Current Molded Power Inductor - PA4345.XXXNLT & PM4345.XXXNLT Series



For More Information:

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