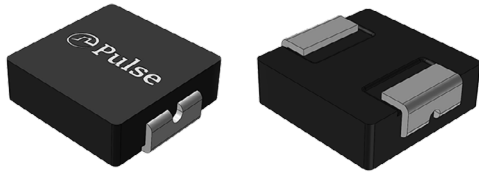


# SMT Power Inductor

High Current Molded Power Inductor - PA4346 & PM4346 Series



- Ⓢ **Height:** 5mm Max
- Ⓢ **Footprint:** 14mm x 12.8mm Max
- Ⓢ **Current Rating:** up to 24A
- Ⓢ **Inductance Range:** 1uH to 47uH
- Ⓢ High current, low DCR, and high efficiency
- Ⓢ High reliability
- Ⓢ Minimized acoustic noise and minimized leakage flux noise
- Ⓢ 200 Vdc Isolation Between Terminal and Core
- Ⓢ Available in Commercial (PA) and Automotive (PM) grades

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

Commercial <sup>6,7</sup>	Automotive <sup>6,7</sup>	Inductance <sup>5</sup> 100KHz, 1.0V  uH±20%	DC Resistance			Saturation <sup>2</sup> Current
			Rated <sup>3</sup> Current	DC Resistance		TYP.
			TYP. A	TYP. mΩ	MAX. mΩ	A
PA4346.101NLT	PA4346.101NLT	0.10	55	.35	.45	120
<b>PA4346.201NLT</b>	PM4346.201NLT	0.2	52	0.45	0.55	110
<b>PA4346.221NLT</b>	PM4346.221NLT	0.22	52	0.5	0.7	110
<b>PA4346.331NLT</b>	PM4346.331NLT	0.33	42	0.7	0.9	80
<b>PA4346.361NLT</b>	PM4346.361NLT	0.36	42	0.75	0.95	75
<b>PA4346.391NLT</b>	PM4346.391NLT	0.39	42	0.78	0.95	70
<b>PA4346.471NLT</b>	PM4346.471NLT	0.47	38	0.86	1.1	65
<b>PA4346.501NLT</b>	PM4346.501NLT	0.5	37	0.9	1.3	60
<b>PA4346.561NLT</b>	PM4346.561NLT	0.56	36	1	1.5	55
<b>PA4346.681NLT</b>	PM4346.681NLT	0.68	34	1.4	1.7	54
<b>PA4346.821NLT</b>	PM4346.821NLT	0.82	31	1.7	2.1	52
PA4346.103NLT	PA4346.103NLT	10.0	9.0	21.4	25.5	16
PA4346.183NLT	PA4346.183NLT	18.0	7.5	40	45	11
<b>PA4346.102NLT</b>	PM4346.102NLT	1	29	1.85	2.5	50
<b>PA4346.122NLT</b>	PM4346.122NLT	1.2	28	2.5	3	49
<b>PA4346.152NLT</b>	PM4346.152NLT	1.5	27	2.8	3.3	48
<b>PA4346.182NLT</b>	PM4346.182NLT	1.8	21	4	4.9	40
<b>PA4346.222NLT</b>	PM4346.222NLT	2.2	20	4.2	5.5	32
<b>PA4346.332NLT</b>	PM4346.332NLT	3.3	15	6.8	9.2	32
<b>PA4346.472NLT</b>	PM4346.472NLT	4.7	12	11.4	15	27
<b>PA4346.562NLT</b>	PM4346.562NLT	5.6	11.5	12.3	16.5	22
<b>PA4346.602NLT</b>	PM4346.602NLT	6	11.5	13	16.5	21.5

# SMT Power Inductor

High Current Molded Power Inductor - PA4346 & PM4346 Series



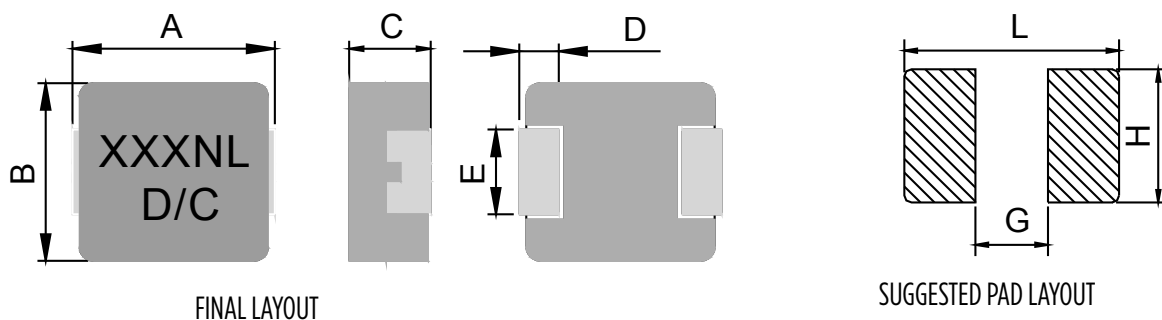
Commercial <sup>6,7</sup>	Automotive <sup>6,7</sup>	Inductance <sup>5</sup> 100KHz, 1.0V  uH±20%	Rated Current	DC Resistance		Saturation Current
			TYP.	TYP.	MAX.	TYP.
			A	mΩ	mΩ	A
<b>PA4346.682NLT</b>	PM4346.682NLT	6.8	11	14.5	18.5	21
<b>PA4346.822NLT</b>	PM4346.822NLT	8.2	9.5	16.8	22.5	18
<b>PA4346.223NLT</b>	PM4346.223NLT	22	6.5	50	58	10
<b>PA4346.333NLT</b>	PM4346.333NLT	33	5	73	88	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 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 availability.
- 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.
- Special characteristics ☹

## Mechanical

### PA4346/PM4346



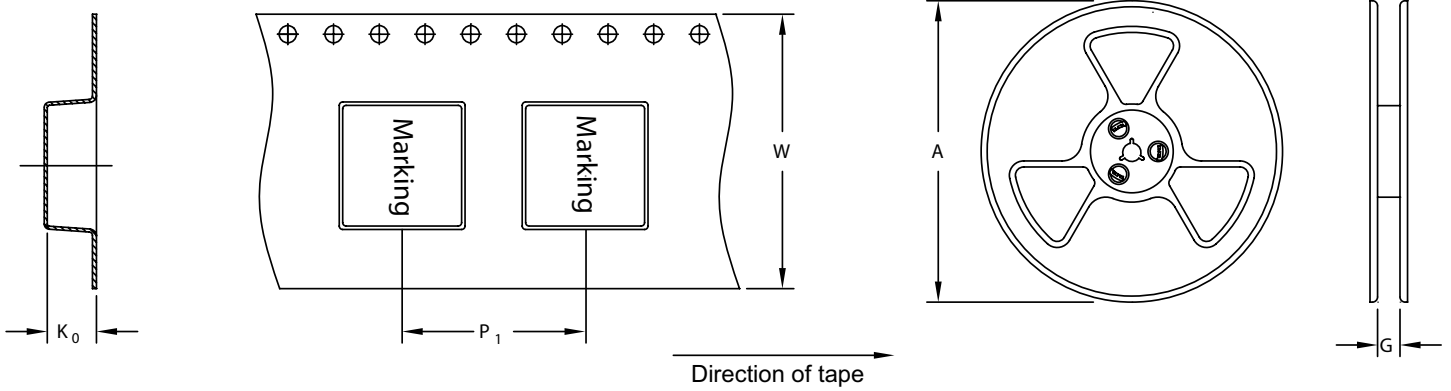
Series	A	B	C	D	E	L	G	H
PA4346/PM4346	13.5+/-0.5	12.5+/-0.3	4.8+/-0.2	2.3+/-0.3	4.7+/-0.3	14.2	8	5

All Dimensions in mm.

# SMT Power Inductor

High Current Molded Power Inductor - PA4346 & PM4346 Series

## TAPE & REEL INFO



### SURFACE MOUNTING TYPE, REEL/TAPE LIST

	REEL SIZE (mm)		TAPE SIZE (mm)			QTY
	A	G	P <sub>1</sub>	W	K <sub>0</sub>	PCS/REEL
PA4346/PM4346	Ø330	24.4	16	24	4	500

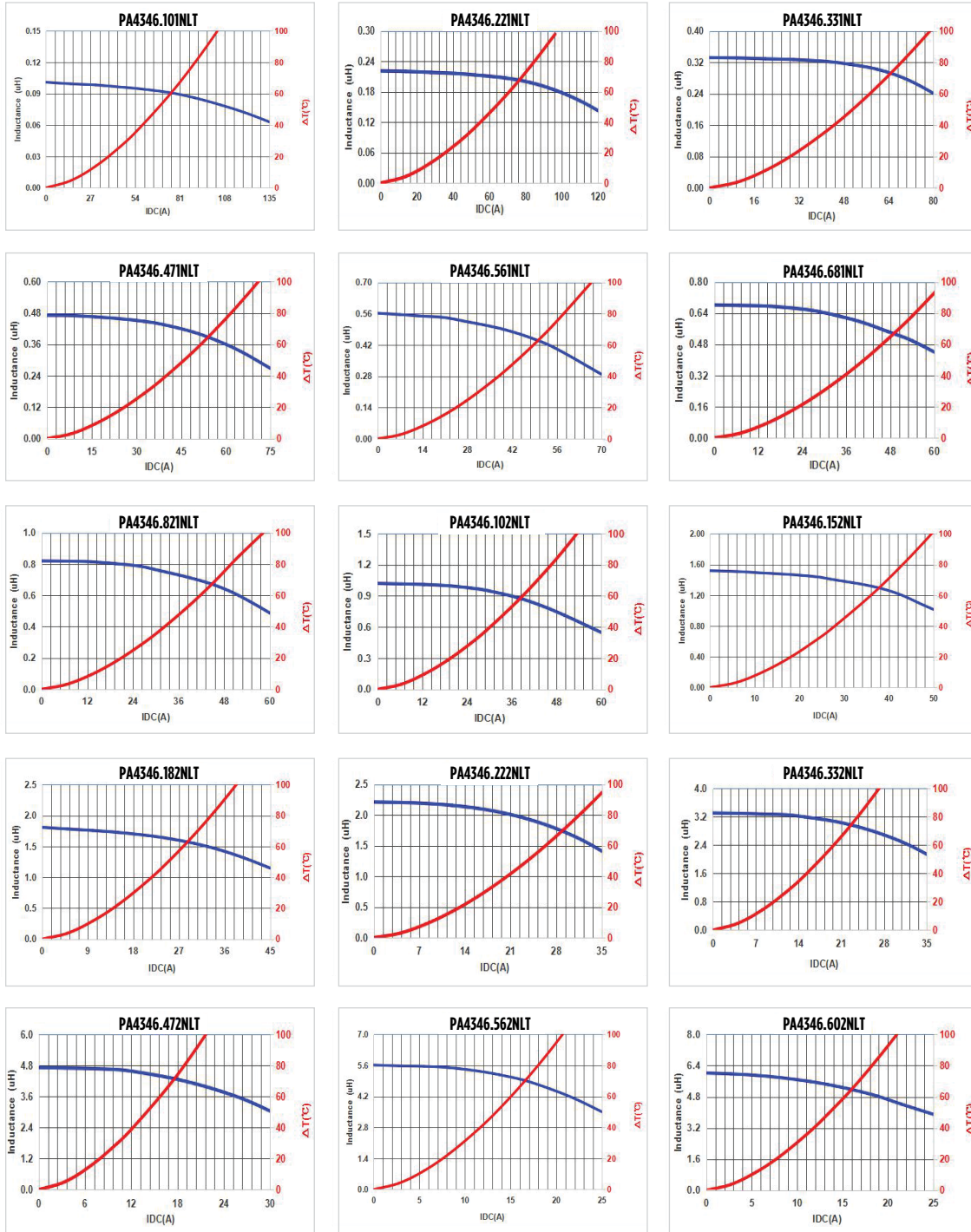
# SMT Power Inductor

High Current Molded Power Inductor - PA4346 & PM4346 Series



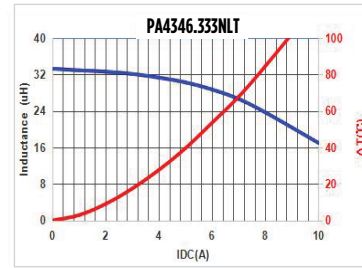
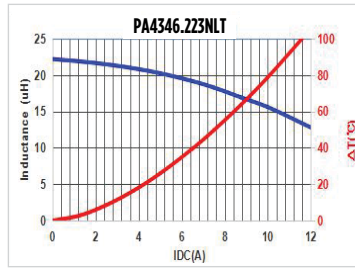
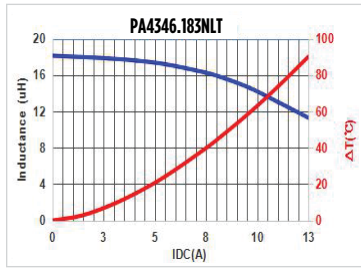
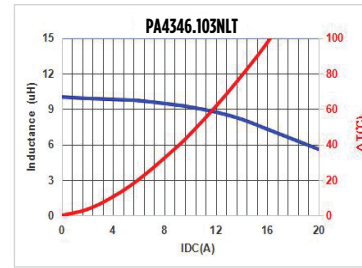
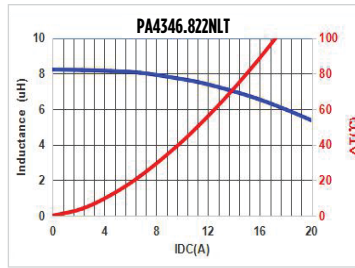
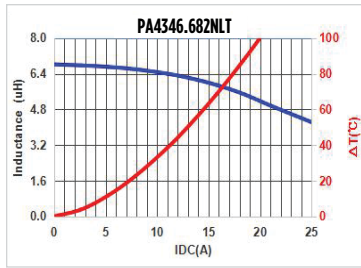
## Typical Performance Curves

PA/PM4346.XXXNLT



# SMT Power Inductor

High Current Molded Power Inductor - PA4346 & PM4346 Series



## For More Information:

Americas - [prodinfo\\_power@pulseelectronics.com](mailto:prodinfo_power@pulseelectronics.com) | Europe - [power-apps-europe@pulseelectronics.com](mailto:power-apps-europe@pulseelectronics.com) | Asia - [power-apps-asia@pulseelectronics.com](mailto: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.

单击下面可查看定价，库存，交付和生命周期等信息

[>>Pulse\(普思\)](#)