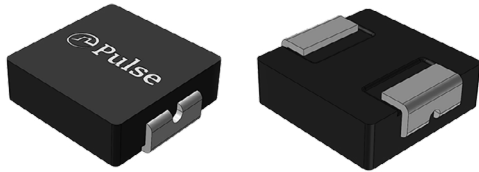


SMT Power Inductors

High Current Molded Power Inductor - PA5404 & PM5404 Series



- Ⓢ **Height:** 5.0mm Max
- Ⓢ **Footprint:** 7.6mm x 6.9mm Max
- Ⓢ **Current Rating:** up to 32A
- Ⓢ **Inductance Range:** 0.1 to 68uH
- Ⓢ High current, low DCR, and high efficiency
- Ⓢ Shielded construction and compact design
- Ⓢ 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 ^{6,7}	Automotive ^{6,7}	Inductance ⁵ 100KHz, 1.0V uH±20%	Rated ⁸ Current	DC Resistance		Saturation ² Current	SRF
			TYP.	TYP.	MAX.	TYP.	Typ
			A	mΩ	mΩ	A	MHz
PA5404.101NLT	PM5404.101NLT	0.10*	32	0.65	0.78	65	350
PA5404.111NLT	PM5404.111NLT	0.11*	32	0.65	0.78	65	350
PA5404.151NLT	PM5404.151NLT	0.15*	30	1.3	1.7	50	210
PA5404.221NLT	PM5404.221NLT	0.22	25	1.6	1.9	35	150
PA5404.331NLT	PM5404.331NLT	0.33	25	2.5	3	32	100
PA5404.401NLT	PM5404.401NLT	0.4	23	3.1	3.7	31	100
PA5404.471NLT	PM5404.471NLT	0.47	22	3.5	3.9	30	95
PA5404.561NLT	PM5404.561NLT	0.56	20	3.6	4.2	27	80
PA5404.601NLT	PM5404.601NLT	0.6	19	3.8	4.3	25	80
PA5404.681NLT	PM5404.681NLT	0.68	18	4	4.5	24	75
PA5404.821NLT	PM5404.821NLT	0.82	16.5	4.6	4.9	22	70
PA5404.102NLT	PM5404.102NLT	1.0	15	6.1	6.5	20	50
PA5404.122NLT	PM5404.122NLT	1.2	14	6.7	7.5	18	45
PA5404.152NLT	PM5404.152NLT	1.5	12	8.6	9	16.5	43
PA5404.182NLT	PM5404.182NLT	1.8	12	9.5	11	15	38
PA5404.222NLT	PM5404.222NLT	2.2	10	11.2	12	14	30
PA5404.332NLT	PM5404.332NLT	3.3	8	19	20.9	12	26
PA5404.472NLT	PM5404.472NLT	4.7	6.5	28	30.8	10	22
PA5404.492NLT	PM5404.492NLT	4.9	6.3	32	38	9.5	21
PA5404.562NLT	PM5404.562NLT	5.6	6	43.5	49	9	20
PA5404.682NLT	PM5404.682NLT	6.8	5.5	46	51.5	8.5	18

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

Commercial ^{6,7}	Automotive ^{6,7}	Inductance ⁵ 100KHz, 1.0V uH±20%	Rated ³ Current	DC Resistance		Saturation ² Current	SRF
			TYP.	TYP.	MAX.	TYP.	TYP.
			A	mΩ	mΩ	A	MHz
PA5404.822NLT	PM5404.822NLT	8.2	5	56	63	8	16
PA5404.103NLT	PM5404.103NLT	10.0	3.8	60	69	7.5	15
PA5404.123NLT	PA5404.123NLT	12	3.5	68	80	6.7	13
PA5404.153NLT	PM5404.153NLT	15	3.5	81	92	6	12
PA5404.223NLT	PM5404.223NLT	22	2.5	140	170	5.5	9
PA5404.333NLT	PM5404.333NLT	33	2	173	200	3.5	8
PA5404.423NLT	PM5404.423NLT	42	2	212	245	2.8	8
PA5404.473NLT	PM5404.473NLT	47	1.9	290	330	2.7	8
PA5404.563NLT	PM5404.563NLT	56	1.6	342	396	2.1	7
PA5404.683NLT	PM5404.683NLT	68	1.2	386	445	2	6

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 

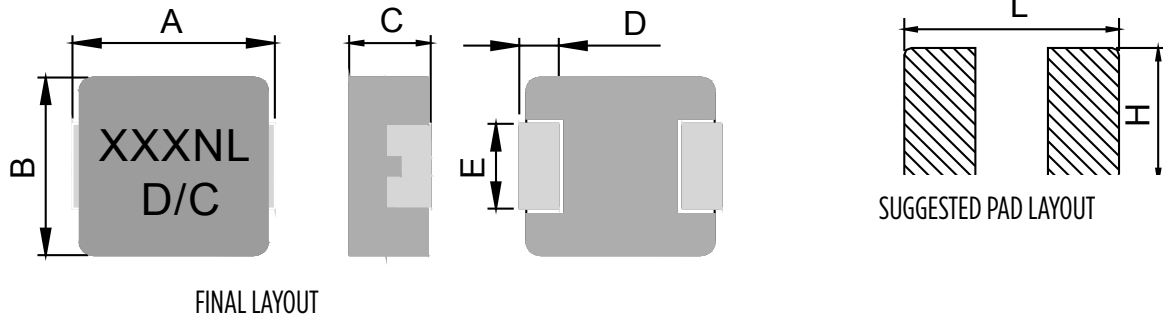
SMT Power Inductors

High Current Molded Power Inductor - PA5404 & PM5404 Series



Mechanical

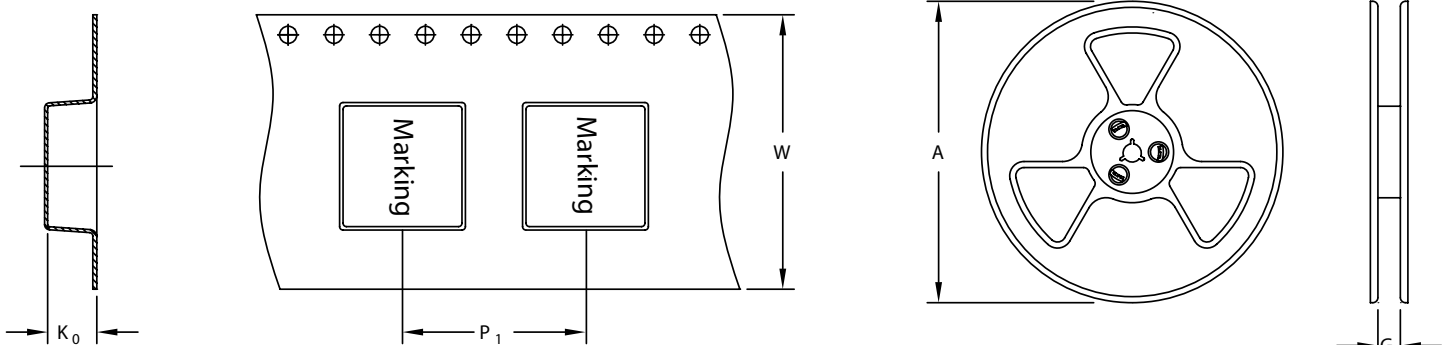
PA5404/PM5404



Series	A	B	C	D	E	L	G	H
PA5404/PM5404	7.3+/-0.3	6.6+/-0.3	4.8+/-0.2	1.8+/-0.2	3.0+/-0.3	8.4	2.5	3.5

All Dimensions in mm.

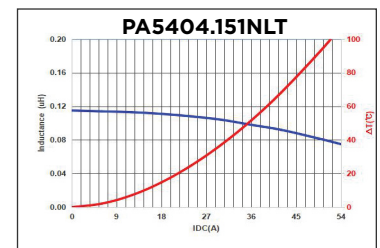
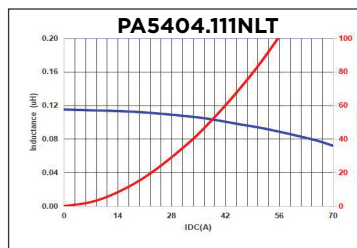
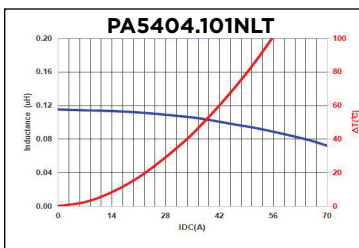
TAPE & REEL INFO



	SURFACE MOUNTING TYPE, REEL/TAPE LIST					QTY PCS/REEL
	REEL SIZE (mm)		TAPE SIZE (mm)			
	A	G	P ₁	W	K ₀	
PA5404/PM5404	Ø330	16.4	12	16	5.3	800

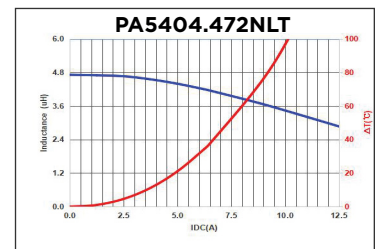
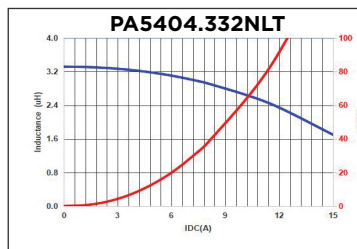
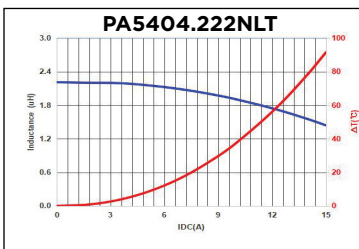
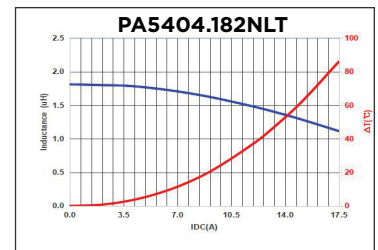
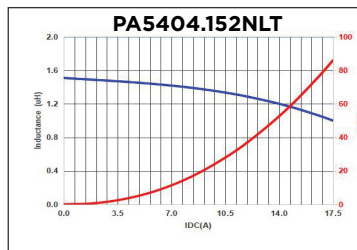
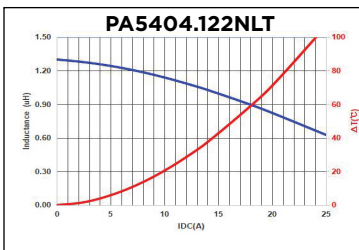
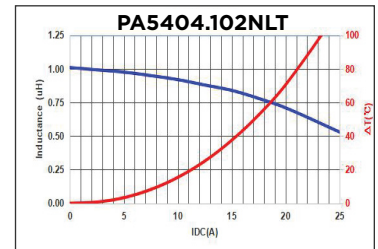
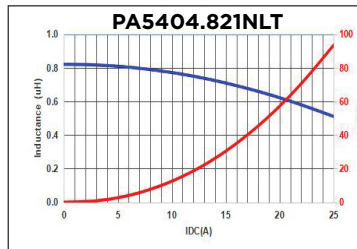
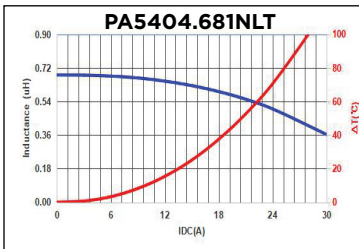
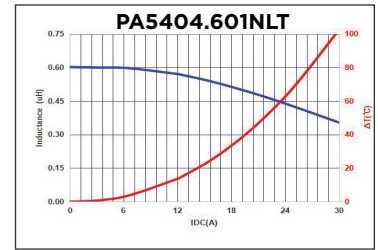
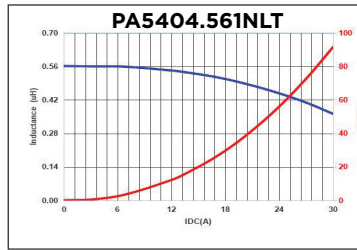
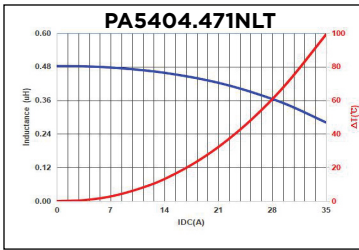
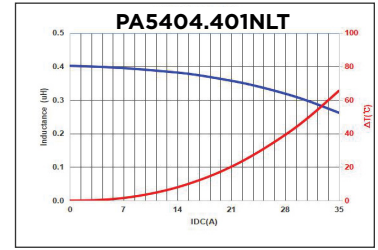
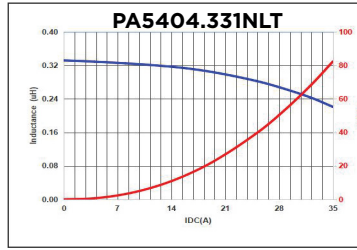
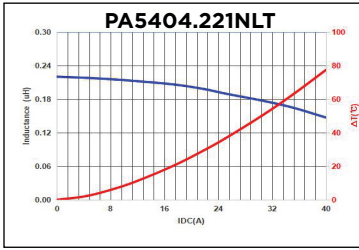
Typical Performance Curves

PA5404/PM5404



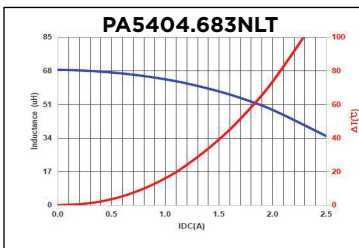
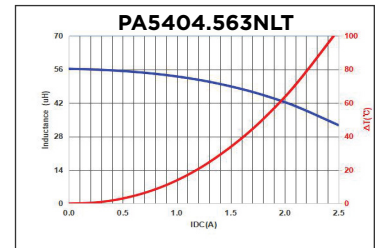
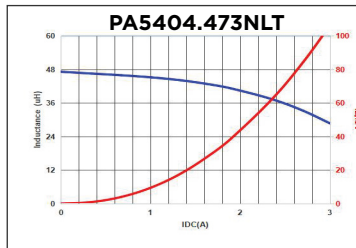
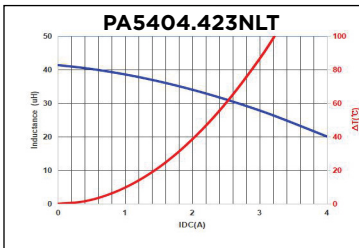
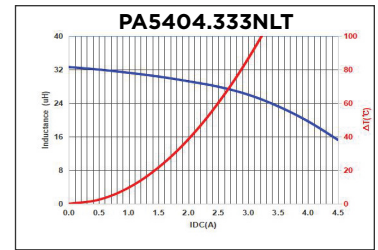
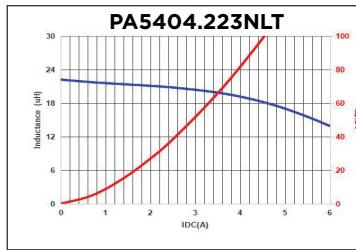
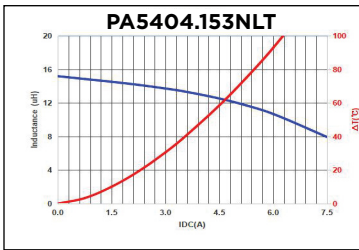
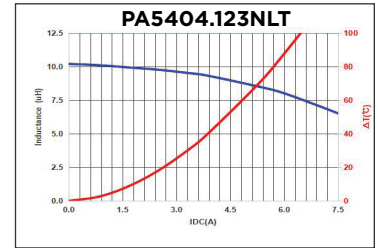
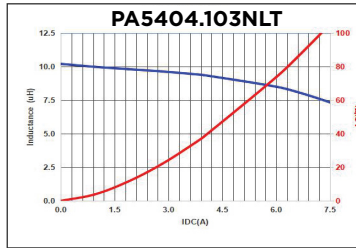
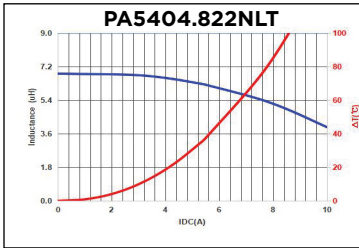
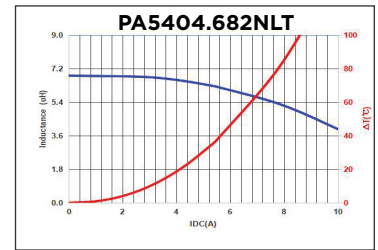
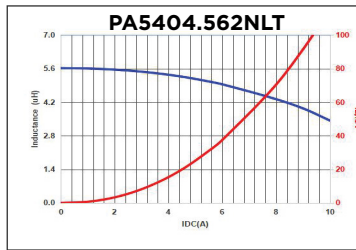
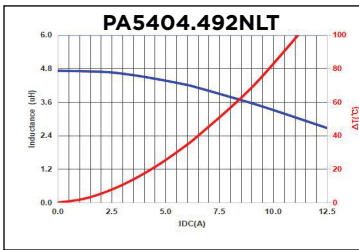
SMT Power Inductors

High Current Molded Power Inductor - PA5404 & PM5404 Series



SMT Power Inductor

Shielded Drum Core - PA4331.XXXNLT Series



For More Information:

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