High Current Molded Power Inductor - PA5403 & PM5403 Series

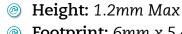












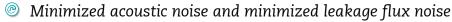
© Footprint: 6mm x 5.4mm Max

@ Current Rating: up to 14A

Inductance Range: 0.1 to 10иН

High current, low DCR, and high efficiency

Shielded construction and compact design



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	Rated³ Current	DC Resistance		Saturation ² Current			
		100KHz, 1.0V	TYP.	TYP.	MAX.	TYP.			
		uH±20%	A	mΩ	$\mathbf{m}\Omega$	A			
PA5403.101NLT	PM5403.101NLT	0.10*	14	4.3	5.2	14.5			
PA5403.221NLT	PM5403.221NLT	0.22*	10.7	5.5	6.7	14			
PA5403.331NLT	PM5403.331NLT	0.33	8.5	7.8	9.4	13.5			
PA5403.361NLT	PM5403.361NLT	0.36	8	10	11.5	13			
PA5403.471NLT	PM5403.471NLT	0.47	7	13.6	15.8	11			
PA5403.681NLT	PM5403.681NLT	0.68	6	21.5	24.5	9			
PA5403.102NLT	PM5403.102NLT	1.0	5	26	30	6			
PA5403.122NLT	PM5403.122NLT	1.2	4.5	33	40	5.5			
PA5403.152NLT	PM5403.152NLT	1.5	4	38	44	5			
PA5403.222NLT	PM5403.222NLT	2.2	3.5	65	75	4			
PA5403.332NLT	PM5403.332NLT	3.3	3	75	86	3.8			
PA5403.472NLT	PM5403.472NLT	4.7	2.5	100	115	3.2			
PA5403.562NLT	PM5403.562NLT	5.6	2.4	175	201	3.2			
PA5403.682NLT	PM5403.682NLT	6.8	2	193	222	3			
PA5403.822NLT	PM5403.822NLT	8.2	1.7	327	378	2.8			
PA5403.103NLT	PM5403.103NLT	10	1.5	335	385	1.8			

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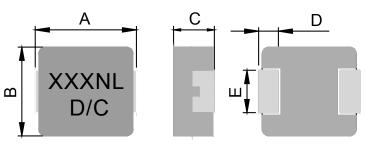
Notes:

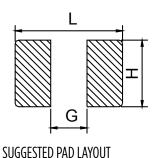
- 1. Actual temperature of the component during system operation (ambient plus temperature rise) must be within the standard operating range.
- 2. The saturation current is the current at which the initial inductance drops approximately 30% at the stated ambient temperature. This current is determined by placing the component in the specified ambient environment and applying a short duration pulse current (to eliminate self-heating effect) to the component.
- 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 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.

- 5. 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 availablity.
- 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

PA5403/PM5403





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Series	A	В	C	D	E	L	G	Н
PA5403/PM5403	5.7+/-0.3	5.2+/-0.2	1.0+/-0.2	1.1+/-0.3	2.5+/-0.3	6.2	2.2	2.8

All Dimensions in mm.

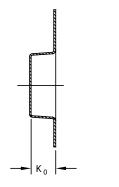
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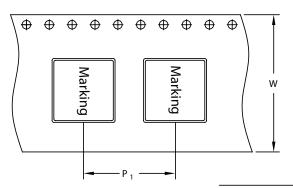
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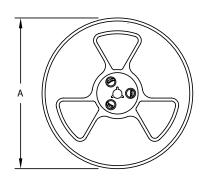
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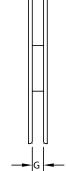










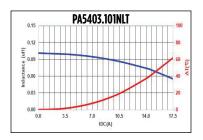


Direction of tape

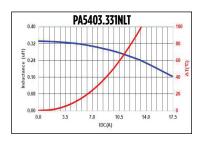
SURFACE MOUNTING TYPE, REEL/TAPE LIST							
	REEL SIZ	<u>/</u> E (mm)	TA	QTY			
	A	G	P ₁	W	K _o	PCS/REEL	
PA5403/PM5403	Ø330	12.4	8	12	1.5	4000	

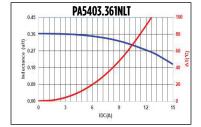
Typical Performance Curves

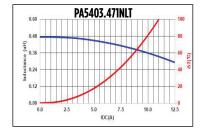
PA5403/PM5403

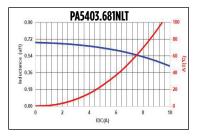






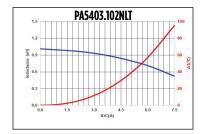




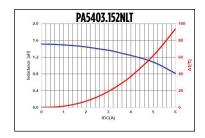


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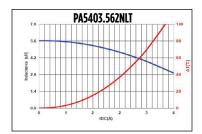




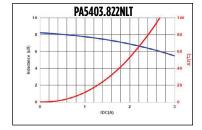












For More Information:

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

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