High Current Molded Power Inductor - PA4344.XXXNLT & PM4344.XXXNLT Series





PA4344.104NLT

PM4344.104NLT

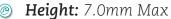


@Pulse









Footprint: 17.7mm x 17.2mm Max

@ Current Rating: up to 52.0A

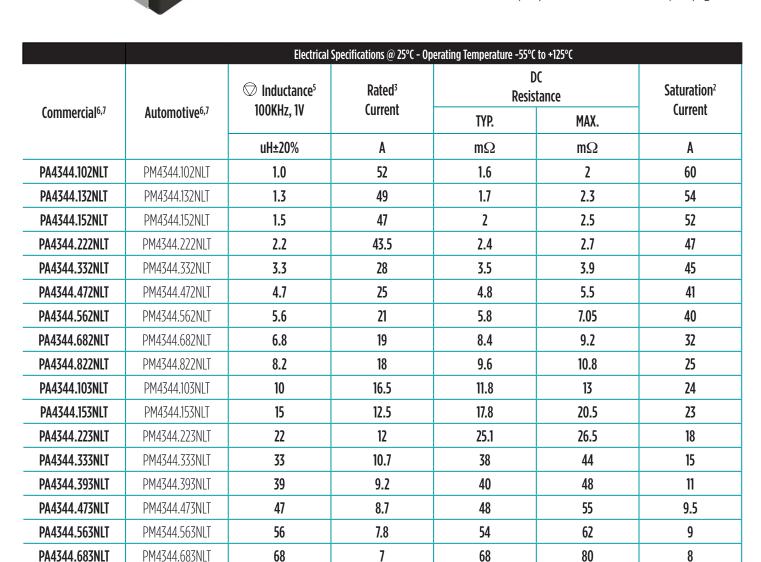
Inductance Range: 1.0uH to 100uH

Shielded construction and compact design High current, low DCR, and high efficiency

Minimized acoustic noise and minimized leakage flux

② 200Vdc Isolation between terminal and core

Available in Commercial (PA) and Automotive (PM) grades



Power.PulseElectronics.com

100

5.3

102

118

6.5

P771.N (08/20)

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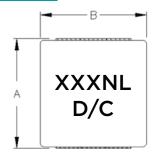
Notes:

- 1. Actual temperature of the component during system operation (ambient plus temperature rise) must be within the standard operating range.
- 2. The saturation current 1 is the current at which the initial inductance drops approximately 30% at the stated ambient temperature. This current is determined by placingthe 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 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.

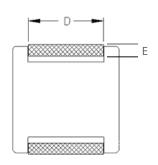
- 5. Please note that the inductance tolerance of all parts are +/-20% except those indicated with a * which are +/-30%.
- Parts shown in bold are standard catalog parts and are available through sample stock and distribution. Parts in lighter font are available but are not necessarily held in sample stock or distribution and lead times may be longer. Please contact Pulse for availablity.
- 7. 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.
- 8. Special characteristics 🛇

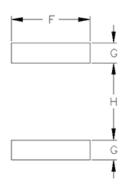
Mechanical

PA4344/PM4344









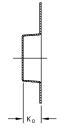
Final Layout

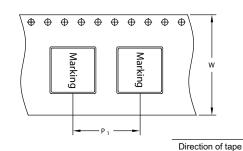
SUGGESTED PAD LAYOUT

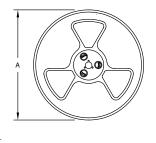
Series	A	В	С	D	E	F	G	Н
PA4344/PM4344	17.7 Max	17.2 Max	7.0 Max	11.9 +/- 0.3	2.1 +/- 0.3	(12.5)	(3.15)	(12.2)

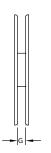
All Dimensions in mm.

TAPE & REEL INFO









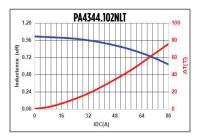
SURFACE MOUNTING TYPE, REEL/TAPE LIST											
	REEL SIZE (mm)		TA	QTY							
	A	G	P ₁	W	K ₀	PCS/REEL					
PA4344/PM4344	Ø330	32	24	32	7.5	200					

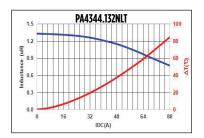
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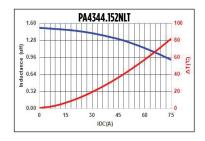


Typical Performance Curves

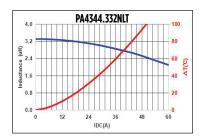
PA4344.XXXNLT and PM4344.XXXNLT

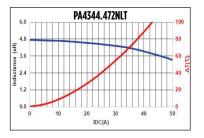


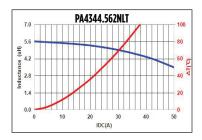


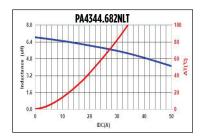


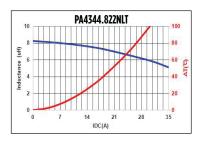


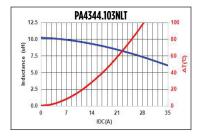


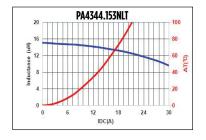






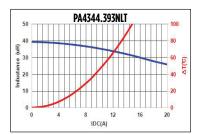


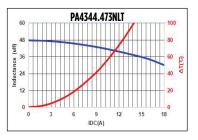




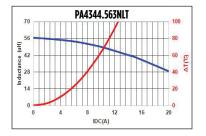


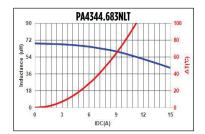


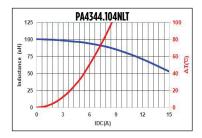




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For More Information:

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

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