SMT Power Inductors

High Current Composite Inductor - PA5432.XXXNLT and PM5432.XXXNLT





- e Height: 6.0mm Max
- Ø Footprint: 6.8mm x 6.6mm Max
- Current Rating: up to 10.5Arms
- Inductance Range: 4.7uH to 22uH
- Ø High current, low DCR, and high efficiency
- e High reliability
- Ø Minimized acoustic noise and minimized leakage flux noise
- Ø Available in Commercial (PA5432) and Automotive (PM5432) grades

Electrical Specifications @ 25°C, Operating Temperature -55°C to +155°C												
Part Number		♡Inductance 100KHz, 0.1V	Rated⁴ Current	DC Resistance		Saturation Current² (25°C)	Heating Current	SRF	K Factor for			
Commerical ⁷	Automotive ⁷			TYP.	MAX.	TYP.	Δ T \approx 40 °C	TYP.	Core Loss			
		uH±20%	Α	$m\Omega$	$m\Omega$	Α	Α	MHz				
PA5432.472NLT	PM5432.472NLT	4.7	10.5	13.10	14.4	10.5	11	21	-			
PA5432.562NLT	PM5432.562NLT	5.6	9.9	14.46	15.9	9.9	10	20	-			
PA5432.682NLT	PM5432.682NLT	6.8	9	18.90	20.8	9.2	9	18	-			
PA5432.822NLT	PM5432.822NLT	8.2	8	24.00	26.4	8.4	8	16	-			
PA5432.103NLT	PM5432.103NLT	10	7	27.00	29.82	7.6	7	14	-			
PA5432.153NLT	PM5432.153NLT	15	6	39.77	43.75	5.8	6	11	-			
PA5432.223NLT	PM5432.223NLT	22	5	55.12	60.63	5.6	5	9	-			

Notes:

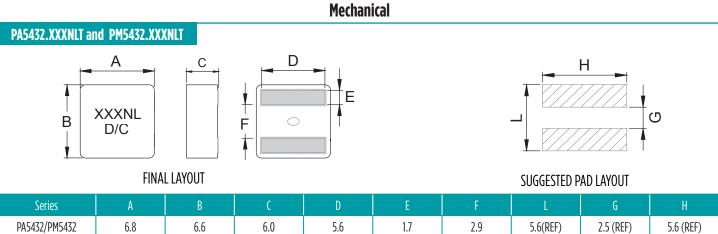
- 1. Actual temperature of the component during system operation (ambient plus temperature rise) must be within the standard operating range.
- 2. The saturation current is the current at which the initial inductance drops by approximately 30% at the stated ambient temperature. The maximum allowable drop at this stated current is 40% of the initial inductance. 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 Heating 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 rated current as listed is either the saturation current or the heating current (Δ T \approx 40°C) depending on which value is lower.

- 5. The part temperature (ambient+temp rise) should not exceed 155 °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.
- 6. 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.
- The PM5432.XXXNLT part numbers are also IATF16949 certified. The mechanical dimensions are100% tested in production but do not necessarily meet a product capability index (Cpk) 1.33 and therefore the PM5432.XXXNLT may not strictly conform to PPAP.
- 8. Special Characteristics \bigcirc

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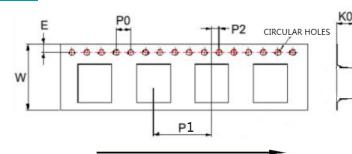
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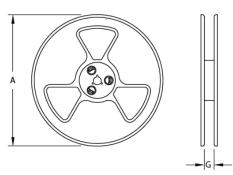




All Dimensions in mm.

TAPE & REEL INFO





Direction of tape

SURFACE MOUNTING TYPE, REEL/TAPE LIST												
	REEL SIZE			TAPE SIZE (mm)								
	А	G	P ₁	W	K ₀	PCS/REEL						
PA5432/PM5432	Ø330	16.4	12	16	6.3	750						

For More Information:

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

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P890.A (04/20)



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Pulse:

 PA5432.103NLT
 PA5432.153NLT
 PA5432.223NLT
 PA5432.472NLT
 PA5432.562NLT
 PA5432.682NLT

 PM5432.682NLT
 PM5432.822NLT
 PA5432.822NLT
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 PM5432.153NLT
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