SMT Power Inductors

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















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

Electrical Specifications @ 25°C, Operating Temperature -55°C to +155°C										
Part Number		□Inductance Rated⁴ 100KHz, 0.1V Current		DC Resistance		Saturation Current ² (25°C)	Heating Current	SRF	K Factor for	
Commerical ⁷	Automotive ⁷			TYP.	MAX.	TYP.	Δ T $pprox$ 40°C	TYP.	Core Loss	
		uH±20%	A	mΩ	$ m m\Omega$	A	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:

- 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.
- 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 💮

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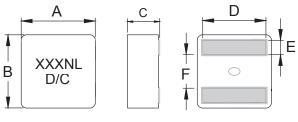
SMT Power Inductors

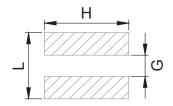
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Mechanical

PA5432.XXXNLT and PM5432.XXXNLT





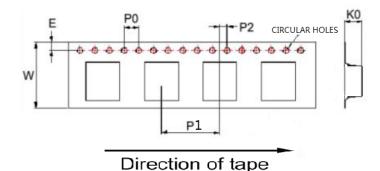
FINAL LAYOUT

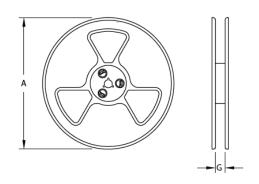
SUGGESTED PAD LAYOUT

Series	A	В	C	D	E	F	L	G	Н
PA5432/PM5432	6.8	6.6	6.0	5.6	1.7	2.9	5.6(REF)	2.5 (REF)	5.6 (REF)

All Dimensions in mm.

TAPE & REEL INFO





SURFACE MOUNTING TYPE, REEL/TAPE LIST									
	REEL SIZ	ZE (mm)	T.A	QTY					
	A	G	P ₁	W	$K_{_{0}}$	PCS/REEL			
PA5432/PM5432	Ø330	16.4	12	16	6.3	750			

For More Information:

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