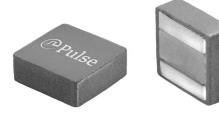
High Current Composite Inductor - PA5002.XXXNLT and PM2202.XXXNLT







- 🥟 Height: 2.0mm Max
- *•* **Footprint:** 5.7mm x 5.5mm Max
- *Current Rating:* up to 30Apk
- *P* Inductance Range: 0.15uH to 1.5uH
- 🕐 High current, low DCR, and high efficiency
- 🕐 High reliability
- 🕐 Minimized acoustic noise and minimized leakage flux noise
- Available in Commercial (PA5002) and Automotive (PM2202) grades

	Elect	rical Specifications @	© 25°C, Operating	Temperature Range	-55°C to +155°C		
Part Number		☑ Inductance	Rated ³	DC Resistance		Saturation ²	K Factor
Commerical	Automotive ⁶	100KHz, 0.1V	Current A	TYP.	MAX.	Current	for Core Loss
		uH±20%		mΩ	mΩ	A	
PA5002.151NLT	PM2202.151NLT	0.15	18.8	4	4.6	27	458.5
PA5002.161NLT	PM2202.161NLT	0.16	18.8	4	4.6	27	-
PA5002.331NLT	PM2202.331NLT	0.33	14.4	6.1	7	24	291.7
PA5002.471NLT	PM2202.471NLT	0.47	14.1	1	8.05	20	213.9
PA5002.561NLT	PM2202.561NLT	0.56	13.9	8.7	9.54	16	213.9
PA5002.681NLT	PM2202.681NLT	0.68	13.4	8.9	10.2	14	168.9
PA5002.801NLT	PM2202.801NLT	0.8	13	10.3	11.8	13.5	168.9
PA5002.821NLT	PM2202.821NLT	0.82	12	11	12.7	13	168.9
PA5002.102NLT	PM2202.102NLT	1	10.5	12	13.8	12.8	139.5
PA5002.122NLT	PM2202.122NLT	1.2	9.4	14.2	16.3	12.2	118.9
PA5002.152NLT	PM2202.152NLT	1.5	8.8	16.2	18.7	11.7	118.9

Notes:

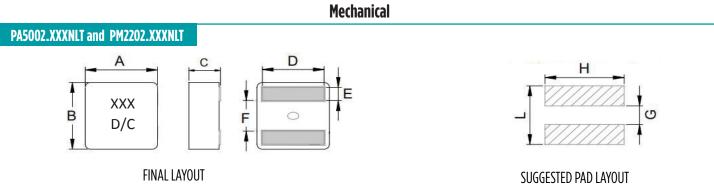
- 1. Actual temperature of the component during system operation (ambient plus temperature rise) must be within the standard operating range.
- 2. The saturation current is the current at which the initial inductance is guaranteed to drop by no more than 40%. The typical inductance at a specified current can be found on the typical performance curves.
- 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 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 PM2202.XXXNLT part numbers are AEC-Q200 and IATF16949 certified. 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.
- 7. Special Characteristics \heartsuit

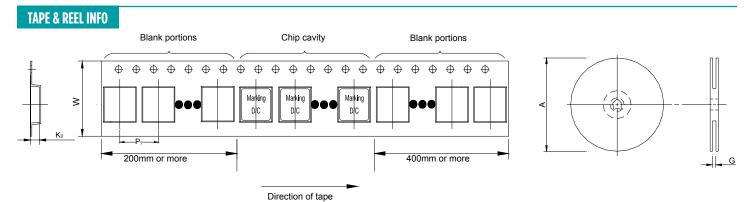
High Current Composite Inductor - PA5002.XXXNLT and PM2202.XXXNLT





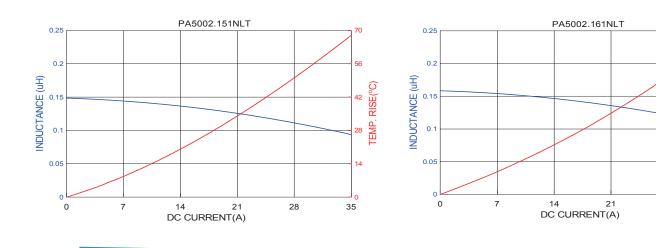
Series	А	В	C	D	E	F	L	G	Н
PA5002/PM2202	5.5±0.2	5.3±0.2	1.8±0.2	4.3±0.3	1.1±0.2	2.3±0.25	4.5 (REF)	2.0 (REF)	4.7 (REF)

All Dimensions in mm.



SURFACE MOUNTING TYPE, REEL/TAPE LIST							
	REEL SIZ	'E (mm)	TAPE SIZE (mm)			QTY	
	A	G	P ₁	W	K ₀	PCS/REEL	
PA5002/PM2202	Ø330	12.4	8	12	2.3	3000	

Typical Performance Curves





28

70

56

42

28

14

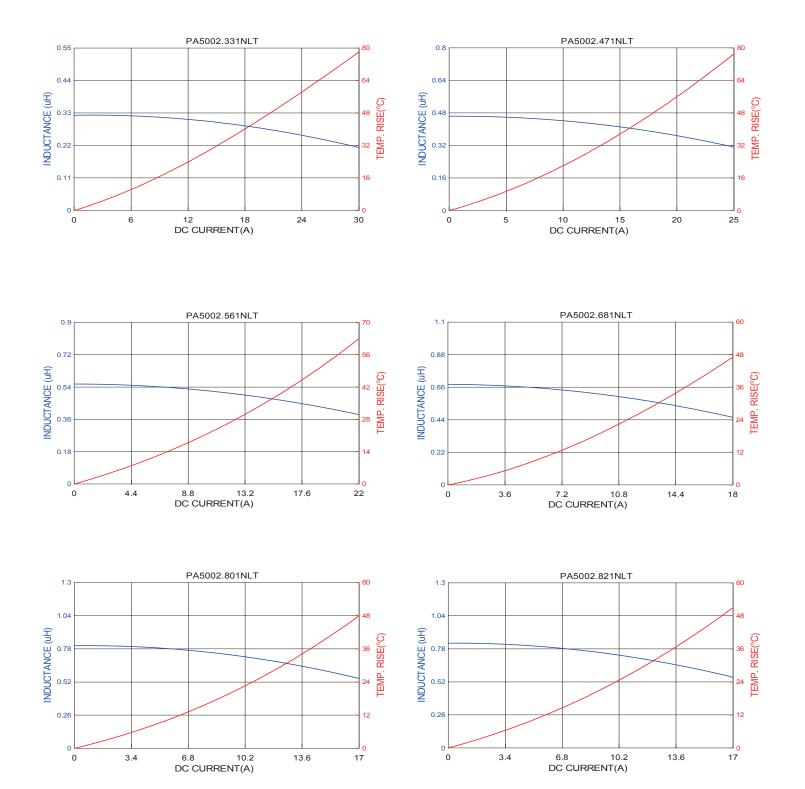
0

35

TEMP. RISE(°C)

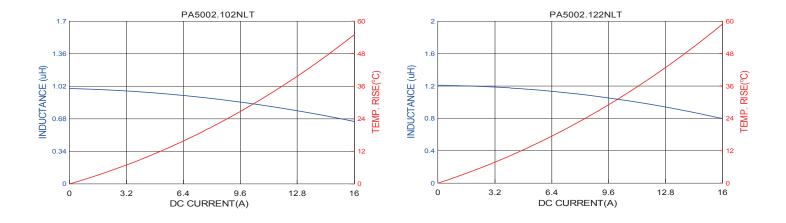
High Current Composite Inductor - PA5002.XXXNLT and PM2202.XXXNLT

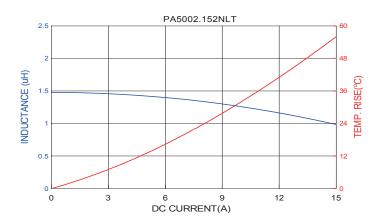




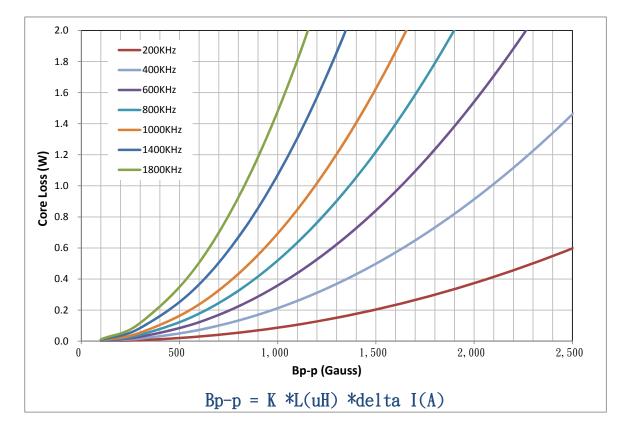
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High Current Composite Inductor - PA5002.XXXNLT and PM2202.XXXNLT



CORE LOSS vs FLUX DENSITY

For More Information:

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

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Mouser Electronics

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

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 PA5002.821NLT

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