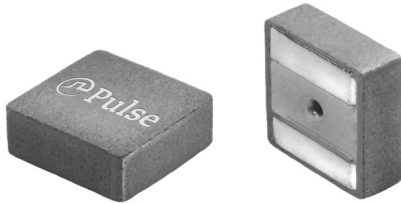


SMT Power Inductors

High Current Composite Inductor - PA5001.XXXNLT and PM2201.XXXNLT



- Ⓟ **Height:** 2.1mm Max
- Ⓟ **Footprint:** 4.3mm x 4.3mm Max
- Ⓟ **Current Rating:** up to 38Apk
- Ⓟ **Inductance Range:** 0.10uH to 2.20uH
- Ⓟ High current, low DCR, and high efficiency
- Ⓟ Rated Voltage between Terminals: 60V
- Ⓟ Minimized acoustic noise and minimized leakage flux noise
- Ⓟ Available in Commercial (PA5001) and Automotive (PM2201) grades

Electrical Specifications @ 25°C, Operating Temperature Range -55°C to +155°C

Part Number		Inductance 100KHz, 0.1V uH±20%	Rated ³ Current A	DC Resistance		Saturation ² Current A	K Factor for Core Loss
Commerical	Automotive ⁶			TYP. mΩ	MAX. mΩ		
PA5001.101NLT	PM2201.101NLT	0.10	18	2.2	2.42	33	947.4
PA5001.221NLT	PM2201.221NLT	0.22	16.8	4.1	4.6	18.8	602.9
PA5001.361NLT	PM2201.361NLT	0.36	14.5	5.6	6.3	15.0	442.1
PA5001.401NLT	PM2201.401NLT	0.40	14	6.9	7.73	13.5	442.1
PA5001.471NLT	PM2201.471NLT	0.47	12.5	7.8	8.58	13.0	-
PA5001.561NLT	PM2201.561NLT	0.56	12	8.4	9.3	12.6	349
PA5001.601NLT	PM2201.601NLT	0.60	11.7	8.6	9.52	12.3	-
PA5001.721NLT	PM2201.721NLT	0.72	10.5	10.4	11.6	10.6	288.3
PA5001.102NLT	PM2201.102NLT	1.00	9.6	13.3	14.6	8.8	245.6
PA5001.122NLT	PM2201.122NLT	1.20	9	16.2	17.9	7.8	213.9
PA5001.152NLT	PM2201.152NLT	1.50	7.6	21.0	23.5	7.4	189.5
PA5001.182NLT	PM2201.182NLT	1.80	7	25.0	28	7.0	170
PA5001.222NLT	PM2201.222NLT	2.20	5.6	35.2	38.7	6.0	-

Notes:

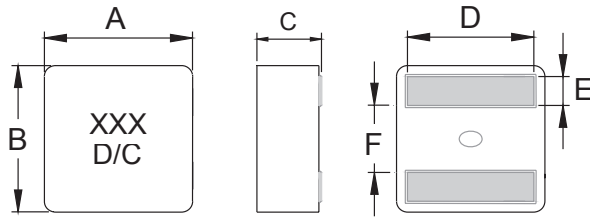
- Actual temperature of the component during system operation (ambient plus temperature rise) must be within the standard operating range.
- The saturation current is the current at which the initial inductance is guaranteed to drop by no more than 40%. The typical inductance at a specified current can be found on the typical performance curves.
- 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.
- 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 availability.
- The PM2201.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.
- Special Characteristics Ⓟ

SMT Power Inductors

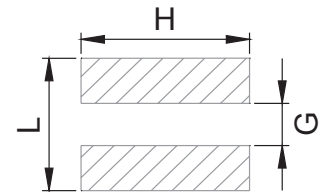
High Current Composite Inductor - PA5001.XXXNLT and PM2201.XXXNLT

Mechanical

PA5001.XXXNLT and PM2201.XXXNLT



FINAL LAYOUT

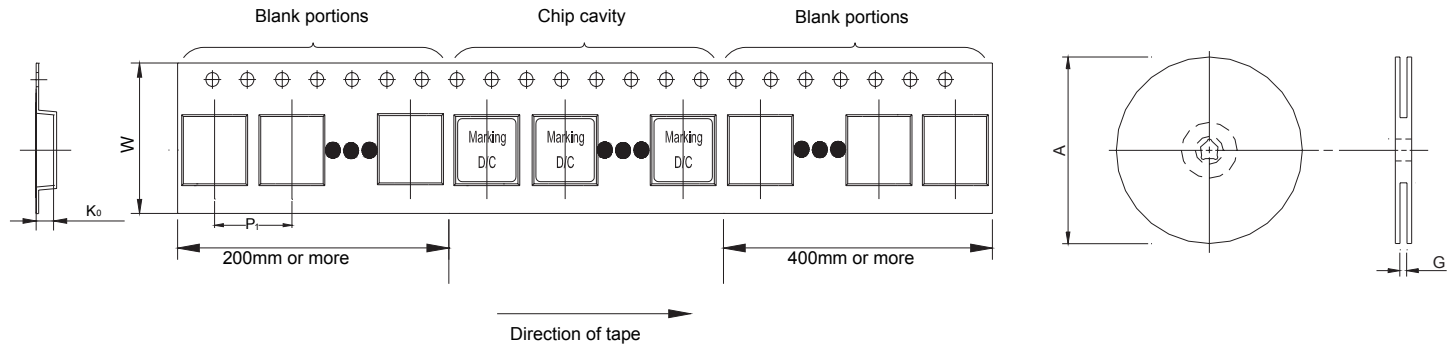


SUGGESTED PAD LAYOUT

Series	Mechanical	A	B	C	D	E	F	L	G	H
PA5001/PM2201	N/A	4.1±0.2	4.1±0.2	1.9±0.2	3.4±0.3	0.88±0.2	1.6±0.25	3.4 (REF)	1.4 (REF)	3.8 (REF)

All Dimensions in mm.

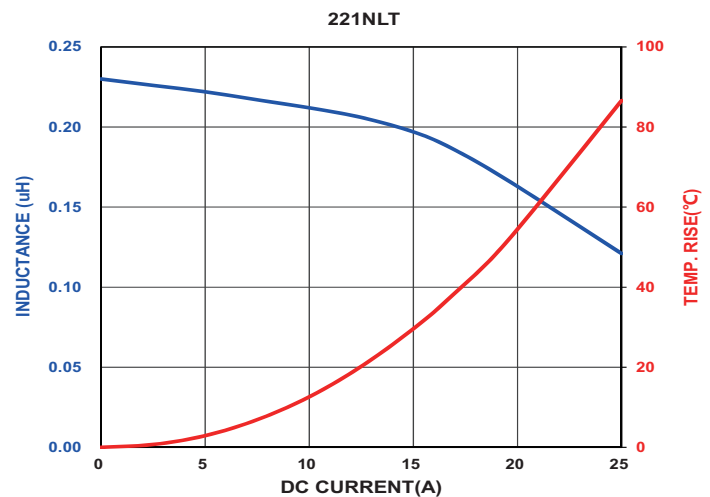
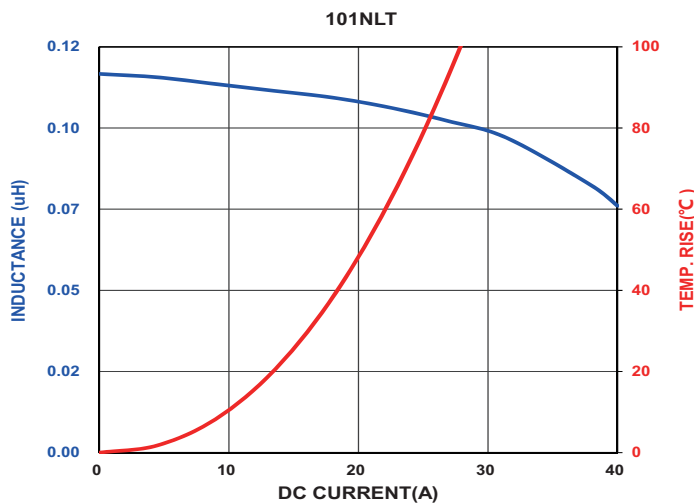
TAPE & REEL INFO



SURFACE MOUNTING TYPE, REEL/TAPE LIST

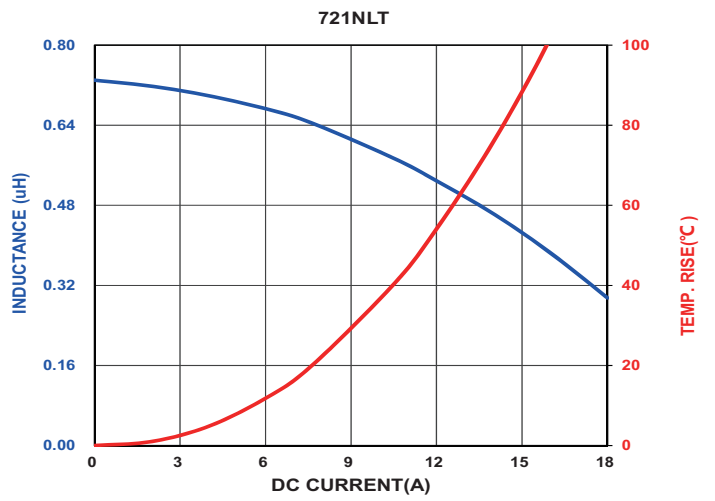
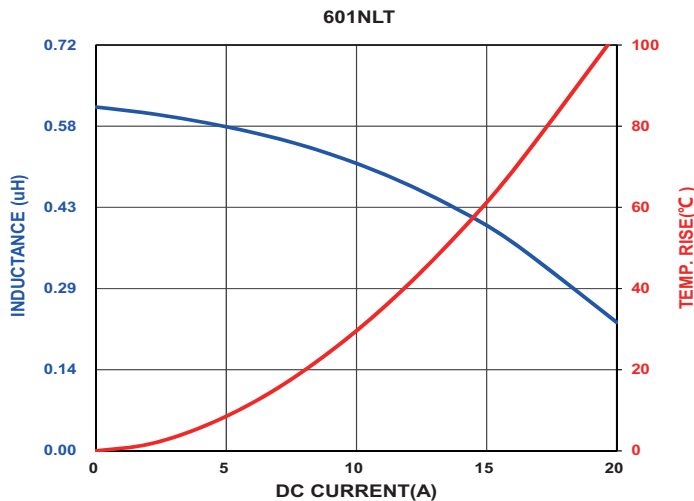
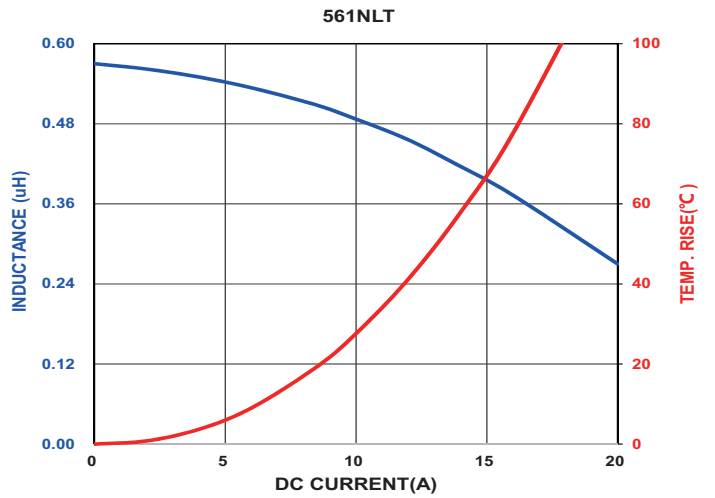
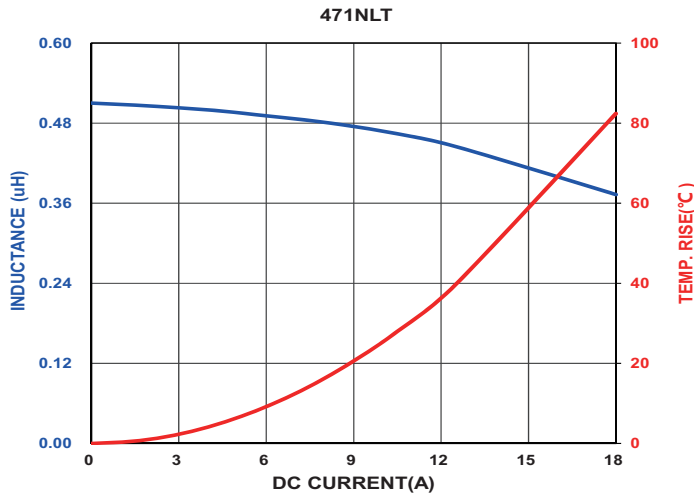
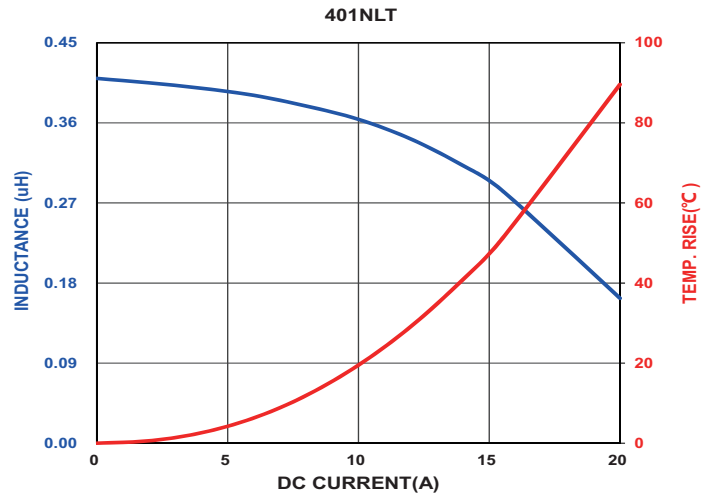
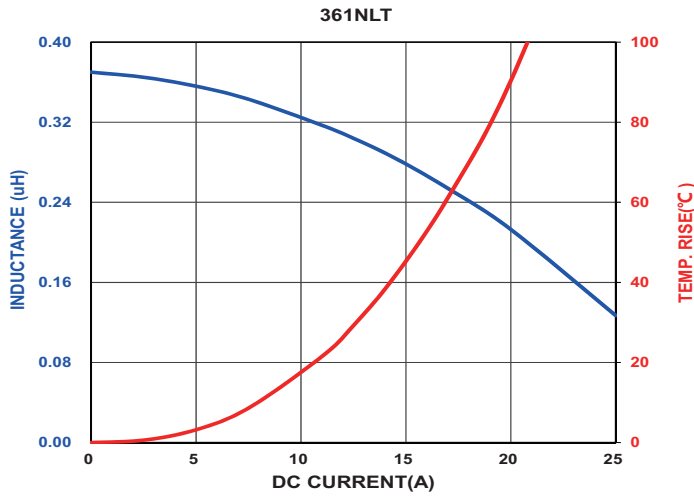
	REEL SIZE (mm)		TAPE SIZE (mm)			QTY
	A	G	P ₁	W	K ₀	PCS/REEL
PA5001/PM2201	Ø330	12.4	8	12	2.3	3000

Typical Performance Curves



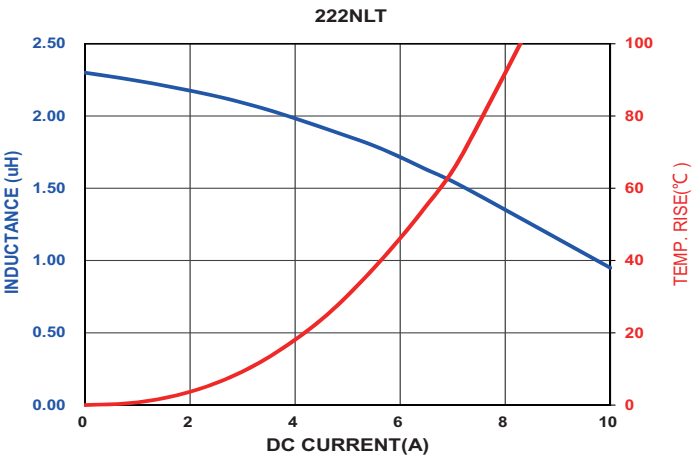
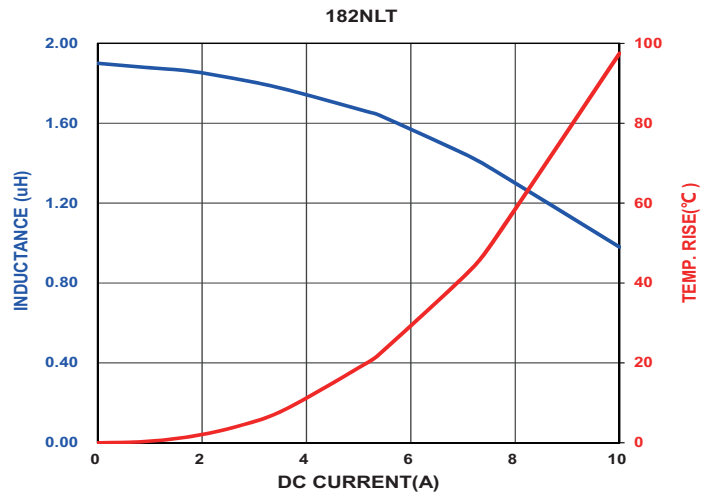
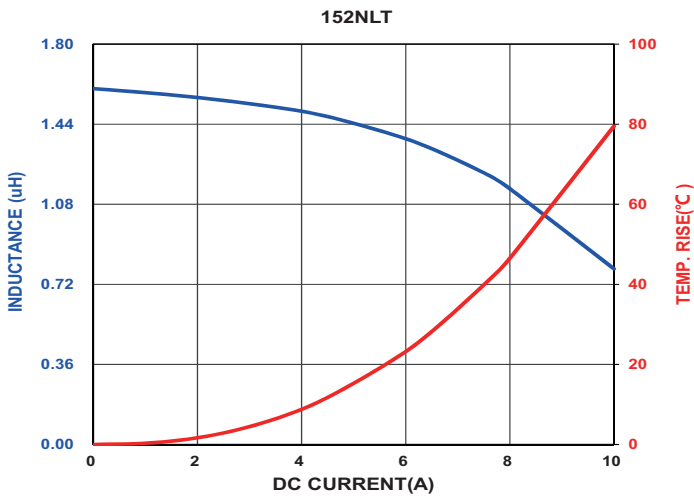
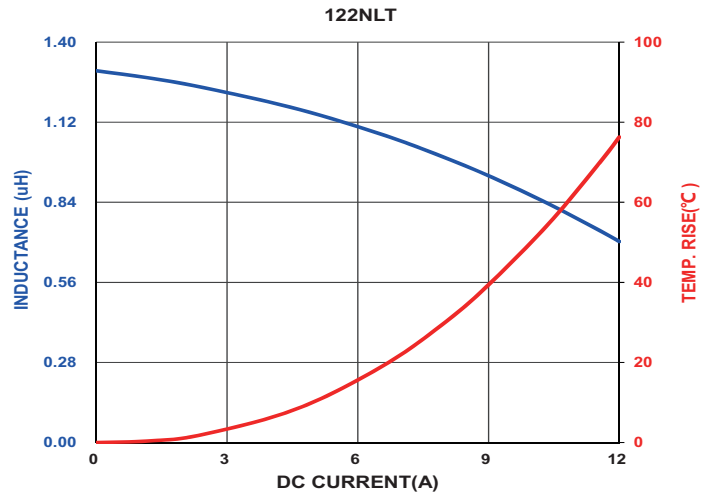
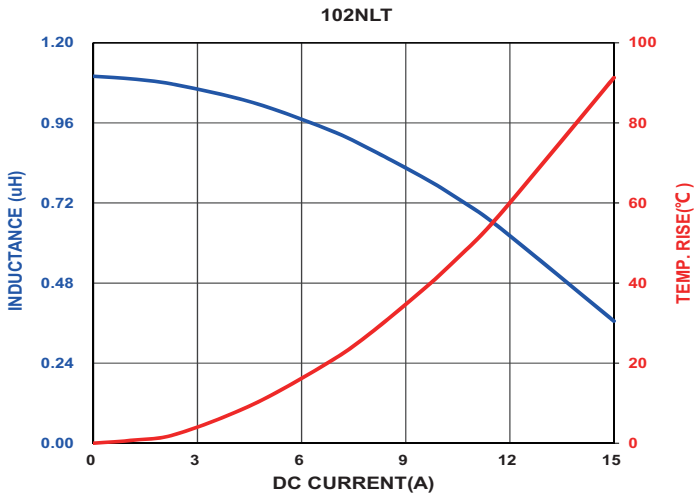
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SMT Power Inductors

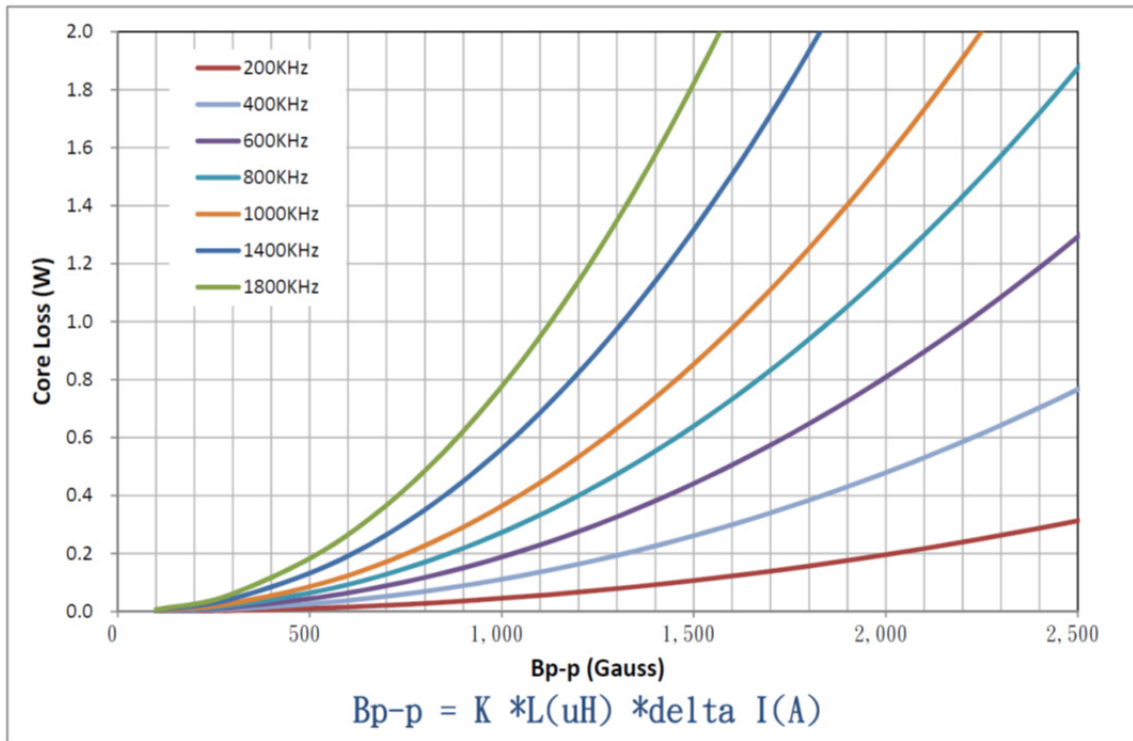
High Current Composite Inductor - PA5001.XXXNLT and PM2201.XXXNLT



SMT Power Inductors

High Current Composite Inductor - PA5001.XXXNLT and PM2201.XXXNLT

CORE LOSS vs FLUX DENSITY



For More Information:

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