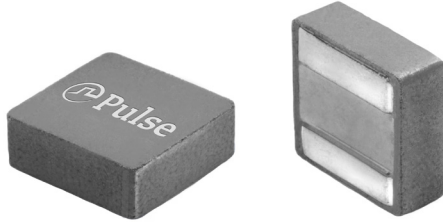


SMT Power Inductors

High Current Composite Inductor - PA2240XXXNLT and PM2240.XXXNLT



- Ⓢ **Height:** 7.0mm Max
- Ⓢ **Footprint:** 8.05mm x 7.85mm Max
- Ⓢ **Current Rating:** up to 15Apk
- Ⓢ **Inductance Range:** 3.3uH to 6.8uH
- Ⓢ High current, low DCR, and high efficiency
- Ⓢ Rated Voltage between Terminals: 60V
- Ⓢ Minimized acoustic noise and minimized leakage flux noise
- Ⓢ Available in Commercial (PA2240) and Automotive (PM2240) grades

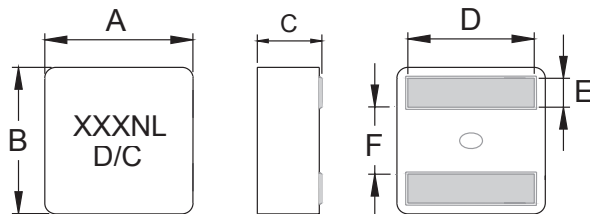
Electrical Specifications @ 25°C, Operating Temperature Range per Below^{4,5}

Part Number		Inductance 100KHz, 0.1V uH±20%	Rated ³ Current A	DC Resistance		Saturation Current ² (25°C)		K Factor for Core Loss	Mechanical D ±0.3
Commerical (-55°C to 125°C)	Automotive ⁶ (-55°C to 155°C)			TYP. mΩ	MAX. mΩ	TYP. A	MAX. A		
PA2240.332NLT	PM2240.332NLT	3.3	15.1	8.56	9.42	19.4	15.1	40.0	6.7
PA2240.472NLT	PM2240.472NLT	4.7	13.6	12.2	13.5	15.5	14.0	36.3	6.7
PA2240.682NLT	PM2240.682NLT	6.8	9.5	17.8	19.6	12.8	11.0	26.4	6.5

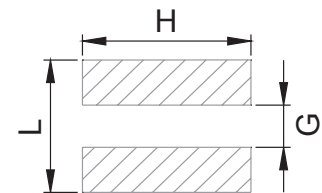
- Notes:**
- Actual temperature of the component during system operation (ambient plus temperature rise) must be within the standard operating range.
 - The saturation current is the current at which the initial inductance drops approximately 30% at the stated ambient temperature. This current is determined by placing the component in the specified ambient environment and applying a short duration pulse current (to eliminate self-heating effect) to the component.
 - 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 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.
 - The PMxxxx.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 Ⓢ

Mechanical

PA2240.XXXNLT and PM2240.XXXNLT



FINAL LAYOUT



SUGGESTED PAD LAYOUT

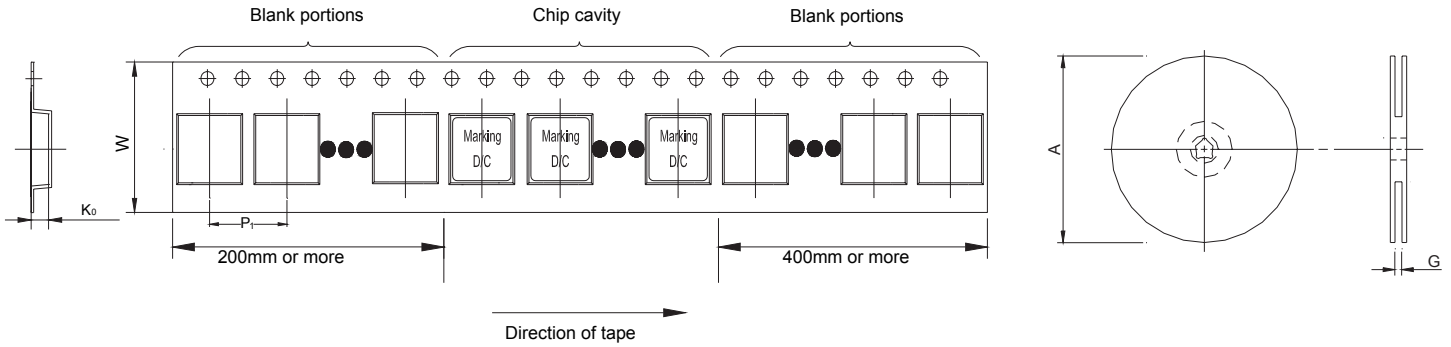
Series	A	B	C	D	E	F	L	G	H
PA2240/PM2240	7.8±0.25	7.6±0.25	6.7±0.3	SEE SPEC TABLE	1.75±0.2	3.15±0.25	7.8 (REF)	2.8 (REF)	6.7 (REF)

All Dimensions in mm.

SMT Power Inductors

High Current Composite Inductor - PA2240XXXNLT and PM2240.XXXNLT

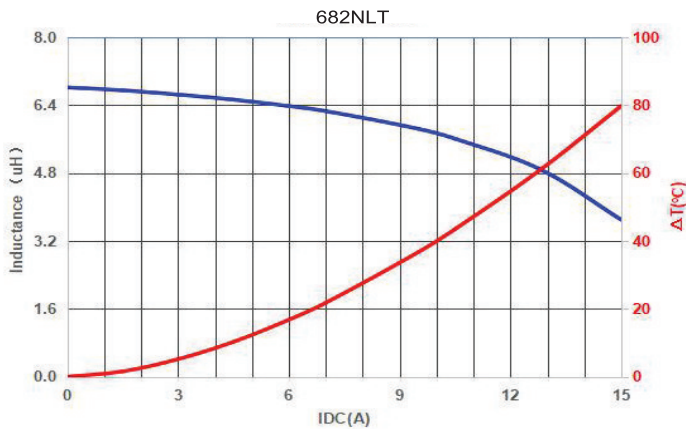
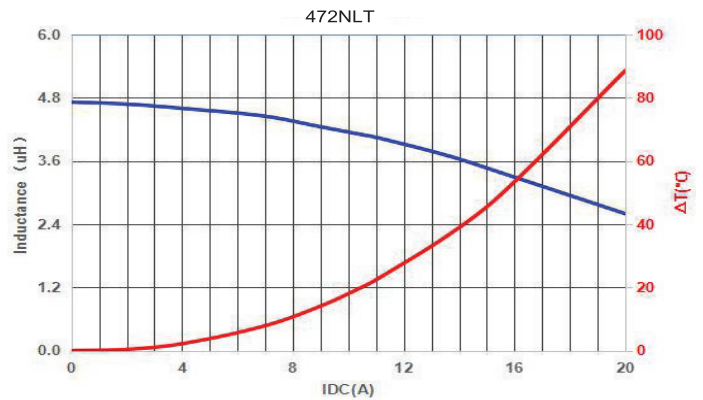
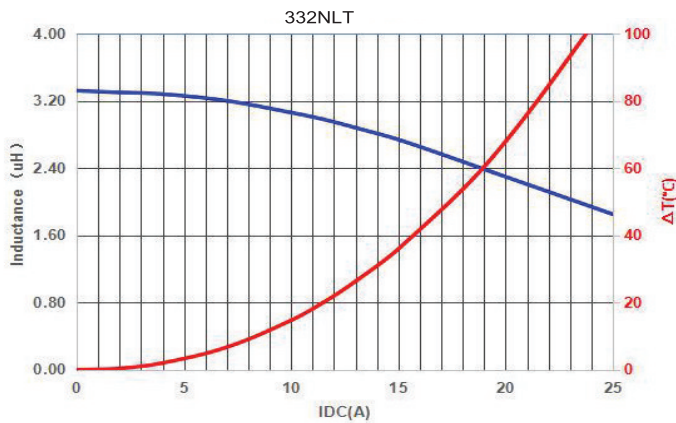
TAPE & REEL INFO



SURFACE MOUNTING TYPE, REEL/TAPE LIST

	REEL SIZE (mm)		TAPE SIZE (mm)			QTY
	A	G	P ₁	W	K ₀	PCS/REEL
PA2240/PM2240	Ø330	16.4	12	16	7.3	700

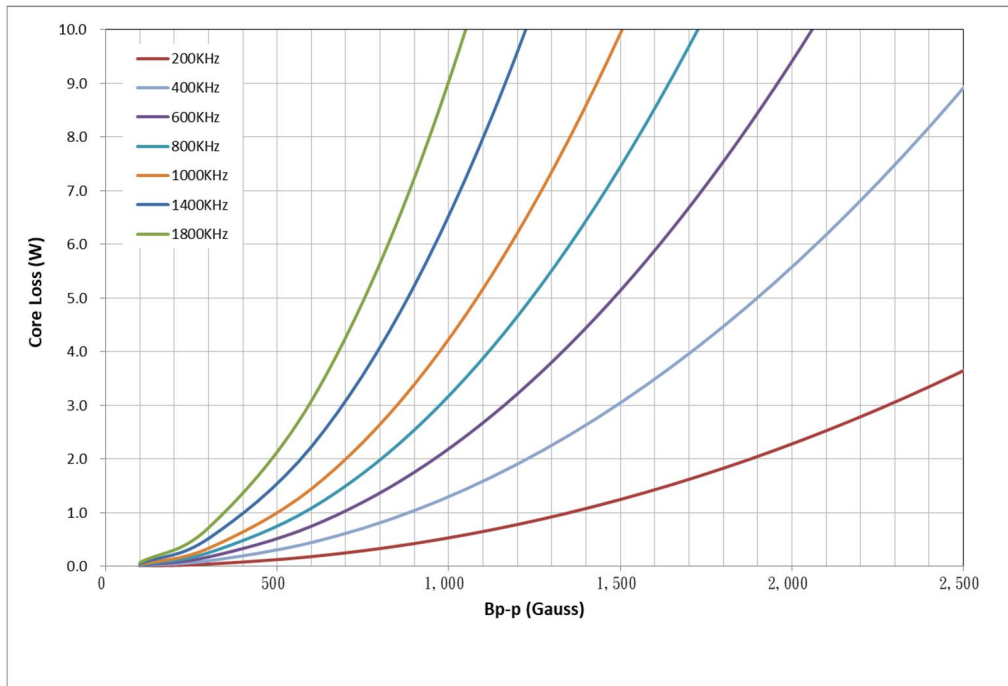
Typical Performance Curves



SMT Power Inductors

High Current Composite Inductor - PA2240XXXNLT and PM2240.XXXNLT

CORE LOSS vs FLUX DENSITY



$$B_{p-p} = K * L(\mu H) * \Delta I(A)$$

For More Information:

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