High Current Composite Inductor - PA5433.XXXNLT and PM5433.XXXNLT





- *Height:* 8.0mm Max
- *Footprint:* 16.8mm x 15.8mm Max
- Current Rating: up to 40Arms
- Inductance Range: 2.0uH to 22uH
- Ø High current, low DCR, and high efficiency
- Rated Voltage between Terminals: 100V
- Minimized acoustic noise and minimized leakage flux noise
- Available in Commercial (PA5433) and Automotive (PM5433) grades

| | Electrical 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 | TYP. | MAX. | Current (25°C) | for Core Loss | | | | |
| | | uH±20% | A | $m\Omega$ | $m\Omega$ | Α | | | | | |
| PA5433.202NLT | PM5433.202NLT | 2.00 | 40.0 | 1.92 | 2.21 | 52.0 | 17.7 | | | | |
| PA5433.222NLT | PM5433.222NLT | 2.20 | 37.0 | 2.15 | 2.48 | 49.0 | 17.7 | | | | |
| PA5433.302NLT | PM5433.302NLT | 3.00 | 34.5 | 2.50 | 3.00 | 41.0 | 14.6 | | | | |
| PA5433.422NLT | PM5433.422NLT | 4.20 | 27.0 | 3.90 | 4.68 | 33.0 | 12.5 | | | | |
| PA5433.532NLT | PM5433.532NLT | 5.30 | 26.0 | 4.45 | 5.34 | 31.0 | 10.9 | | | | |
| PA5433.622NLT | PM5433.622NLT | 6.20 | 23.0 | 5.40 | 6.50 | 31.0 | 9.6 | | | | |
| PA5433.722NLT | PM5433.722NLT | 7.20 | 21.0 | 6.00 | 7.20 | 29.0 | 8.6 | | | | |
| PA5433.822NLT | PM5433.822NLT | 8.20 | 19.0 | 6.60 | 7.92 | 25.0 | 8.6 | | | | |
| PA5433.103NLT | PM5433.103NLT | 10.0 | 16.0 | 8.00 | 9.60 | 21.0 | 7.8 | | | | |
| PA5433.153NLT | PM5433.153NLT | 15.0 | 13.0 | 12.50 | 15.00 | 18.0 | 6.1 | | | | |
| PA5433.223NLT | PM5433.223NLT | 22.0 | 12.0 | 19.30 | 23.20 | 16.0 | 4.7 | | | | |

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 the upper operating temperature range 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 inductance and 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.
- 6. Special Characteristics \heartsuit .

16.5±0.3

15.5±0.3

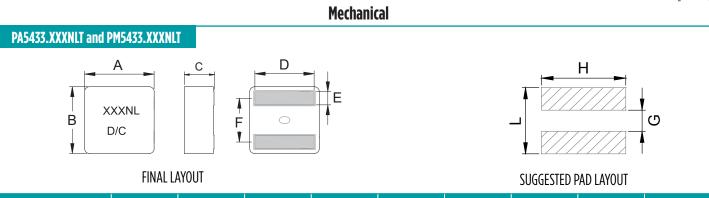
7.7±0.3

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6.0(REF)

15.0(REF)



13.2±0.5

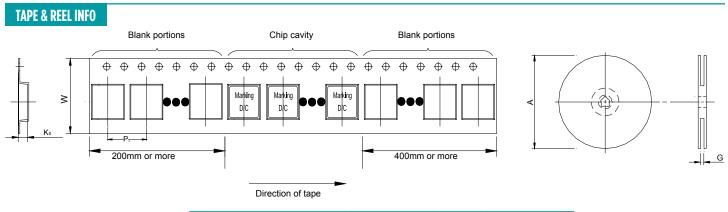
3.2±0.2

10.4±0.3

15.0 (REF)

All Dimensions in mm.

Series PA5433/PM5433

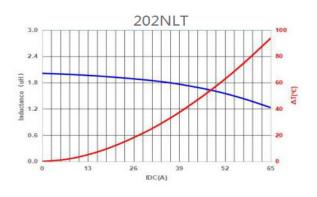


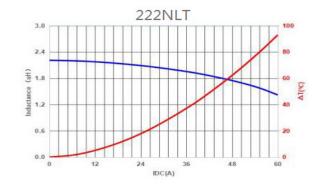
| SURFACE MOUNTING TYPE, REEL/TAPE LIST | | | | | | | | | | |
|---------------------------------------|----------------|------|----------------|----|----------------|----------|--|--|--|--|
| | REEL SIZE (mm) | | TAPE SIZE (mm) | | | QTY | | | | |
| | А | G | P ₁ | W | K _o | PCS/REEL | | | | |
| PA5433/PM5433 | Ø330 | 32.4 | 24 | 32 | 8.5 | 200 | | | | |

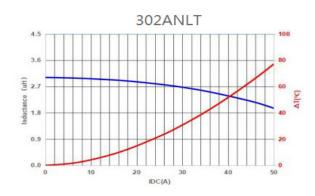
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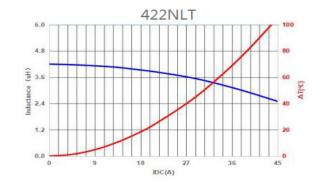


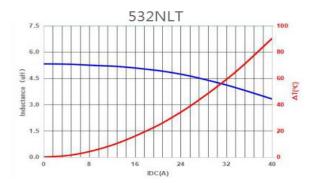
Typical Performance Curves

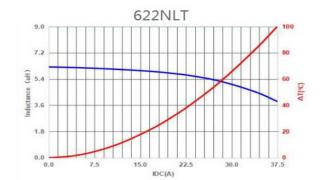










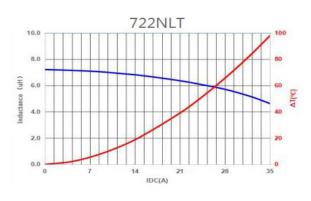


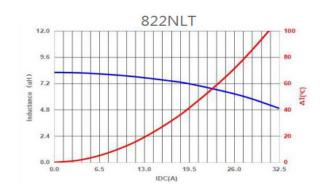
3

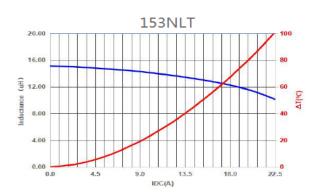
PulseElectronics.com

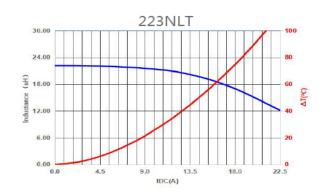
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Pulse

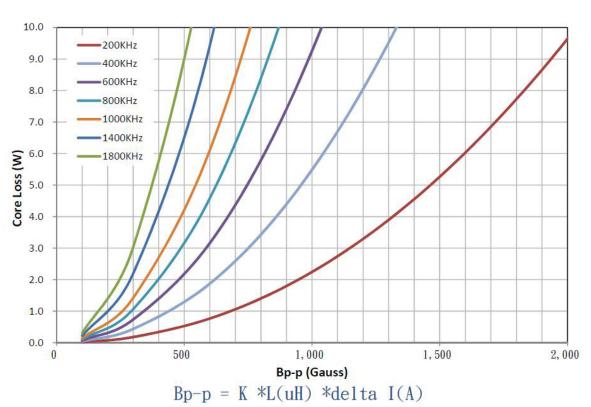








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CORE LOSS vs FLUX DENSITY

For More Information:

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

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>>Pulse(普思)