

SMT Power Inductors

Power Beads - PA5119.XXXNLT & PA5120.XXXNLT Series



- Ⓢ Compatible with Picor® Cool-Power®
- Current Rating:** Over 42Apk
- Ⓢ **Inductance Range:** 0.42uH to 1.5uH
- Ⓢ **Height:** 5.0mm Max (PA5119) and 6.9mm Max (PA5120)
- Ⓢ **Footprint:** 12.7mm x 10.2mm Max (PA5119)
17.8mm x 14.4mm Max (PA5120)

Electrical Specifications @ 25°C — Operating Temperature -40°C to +130°C⁷

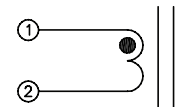
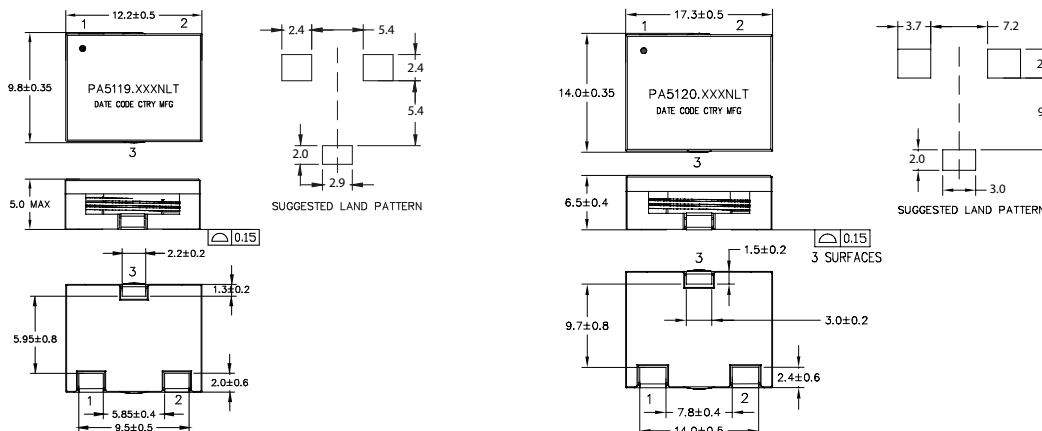
| Part Number | Inductance ¹ @ 0A _{DC} (uH ±10%) | Inductance ² @ I _{rated} (uH TYP) | I _{rated} ³ (ADC) | DCR ⁴ (mΩ ±10%) | Saturation Current ⁵ (A TYP) | | Heating Current ⁶ (A TYP) |
|---|--|---|--|-------------------------------|--|-------|---|
| | | | | | 25°C | 125°C | |
| PA5119 Series (12.7 x 10.2 x 5.0mm Max) | | | | | | | |
| PA5119.421NLT | 0.42 | 0.42 | 16 | 3.15 | 42 | 38 | 16 |
| PA5119.901NLT | 0.90 | 0.90 | 14 | 4.60 | 28 | 25 | 14 |
| PA5119.152NLT | 1.50 | 1.50 | 12 | 6.00 | 21 | 20 | 12 |
| PA5120 Series (17.8 x 14.4 x 6.9 mm Max) | | | | | | | |
| PA5120.481NLT | 0.48 | 0.48 | 32 | 1.7 | 55 | 47 | 32 |

- NOTES:**
- Inductance measured at 100kHz, 100mVrms.
 - Inductance at I_{rated} is the value of the inductance at 25°C at the listed rated current.
 - The rated current as listed is either the saturation current (25°C or 125°C) or the heating current depending on which value is lower.
 - The nominal DCR is measured from point ① to point ②, as shown below on the mechanical drawing.
 - The saturation current is the typical current which causes the inductance to drop by 5% (for PA5119) and 2% (for PA5120) at the stated ambient temperatures (25°C, 125°C). This current is determined by placing the component in the specified ambient environment and applying a short duration pulse current (to eliminate self-heating effects) to the component.
 - The heating current is the DC current which causes the part temperature to increase by approximately 40°C when used in a typical application.
 - Parts with the HLT suffix are sold in tape and reel packaging. Pulse complies to industry standard tape and reel specification EIA-481.
 - The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.

Mechanical

Schematic

PA5119.XXXHLT/PA5120.XXXHLT

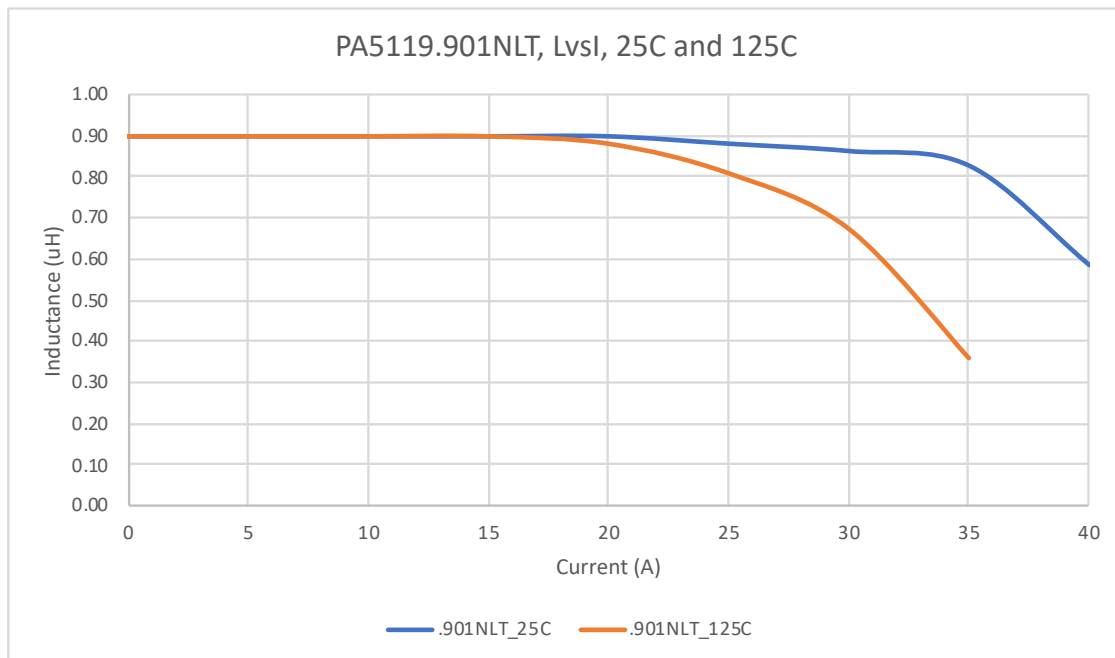
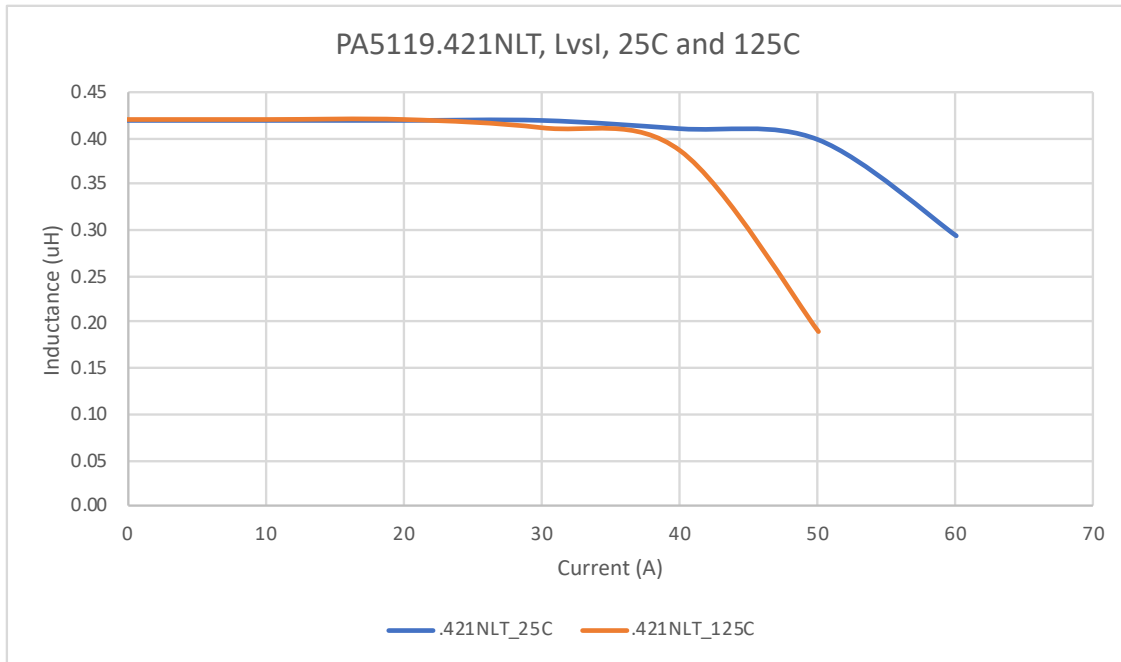


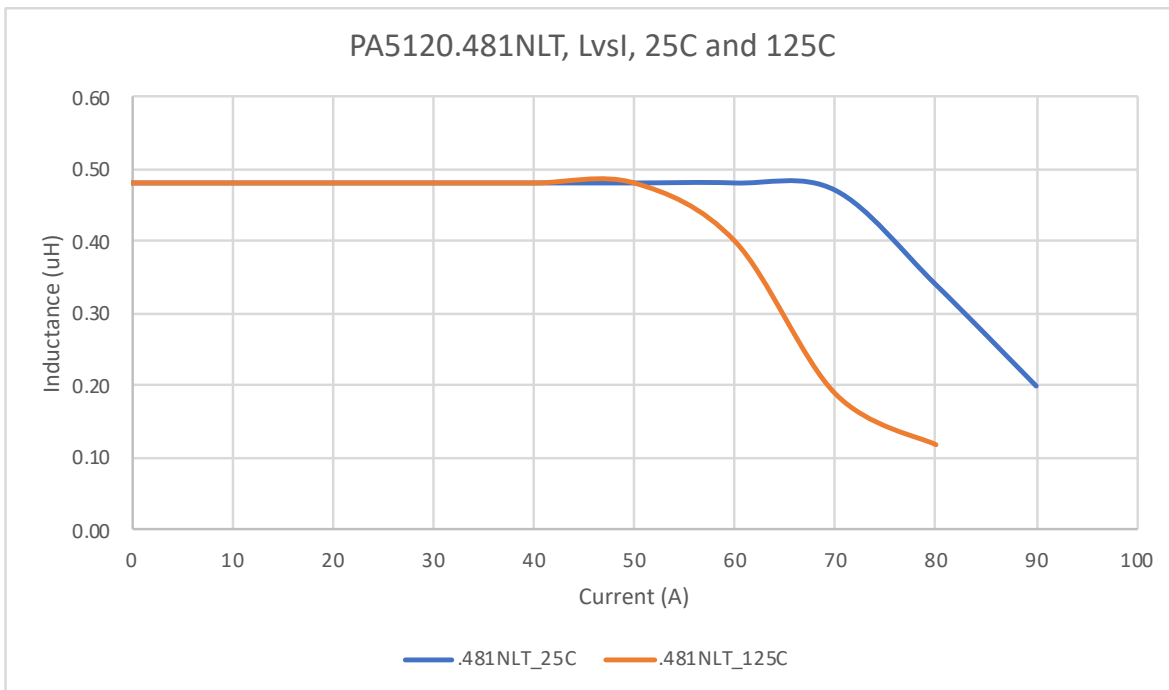
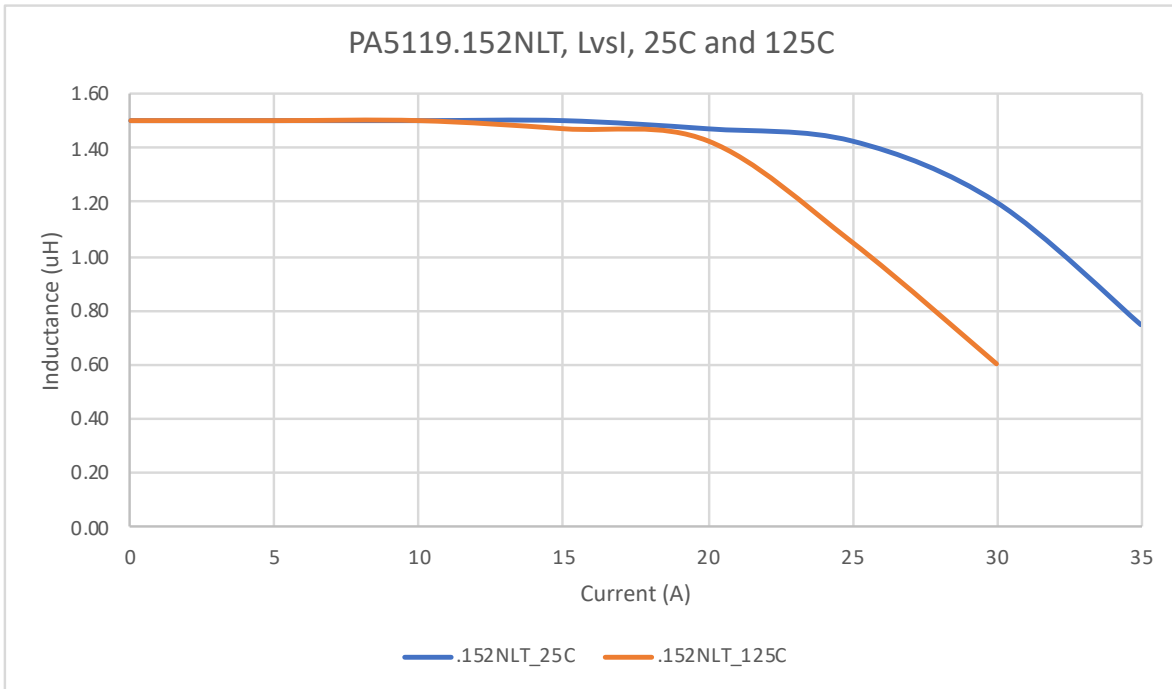
Weight: PA5119 - 3.5grms
PA5120 - 6.7grms

Tape & Reel: PA5119 - 650 reel
PA5120 - 300 reel

Dimensions: mm

Unless otherwise specified, all tolerances are ± 0.25



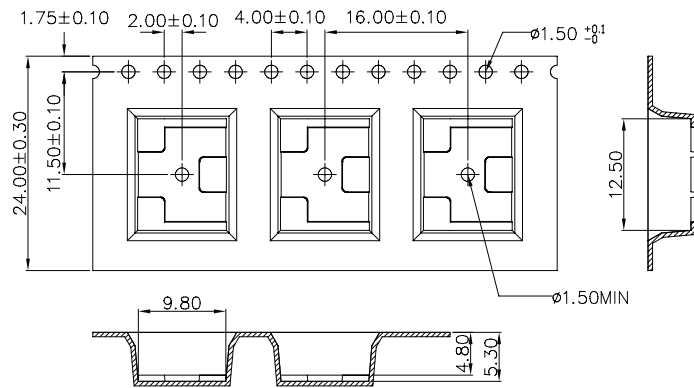


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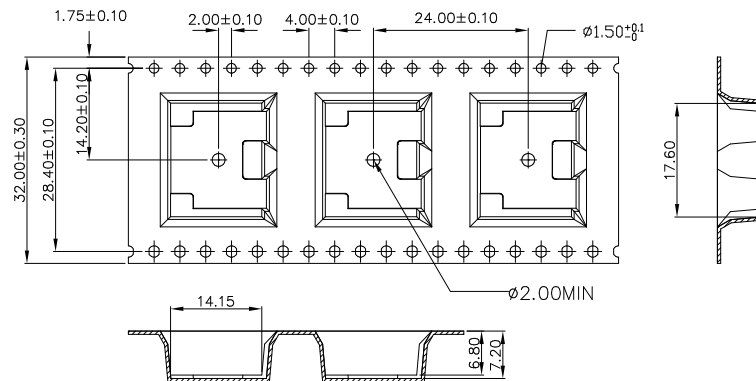
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TAPE & REEL INFO

PA5119.XXXNLT



PA5120.XXXNLT



For More Information:

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