

SMT Power Inductors

Power Beads - PA5119.XXXNLT & PA5120.XXXNLT Series



Compatible with Picor® Cool-Power®

Current Rating: Over 42A_{pk}

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

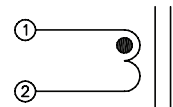
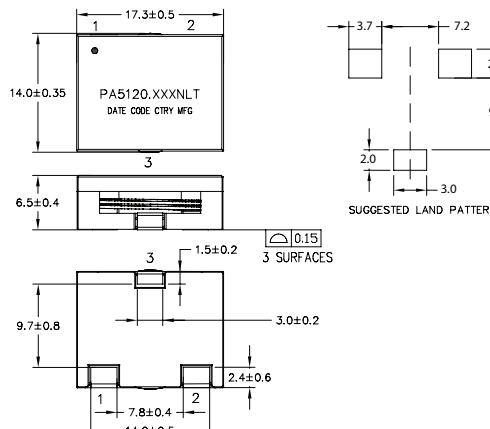
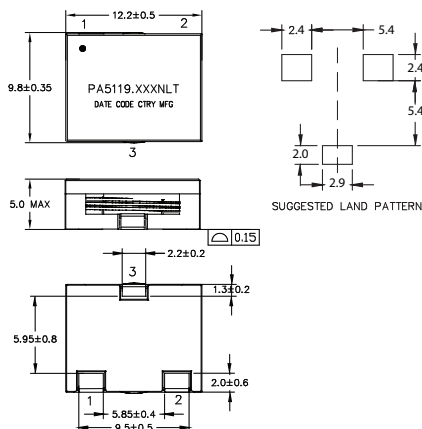
NOTES:

- 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

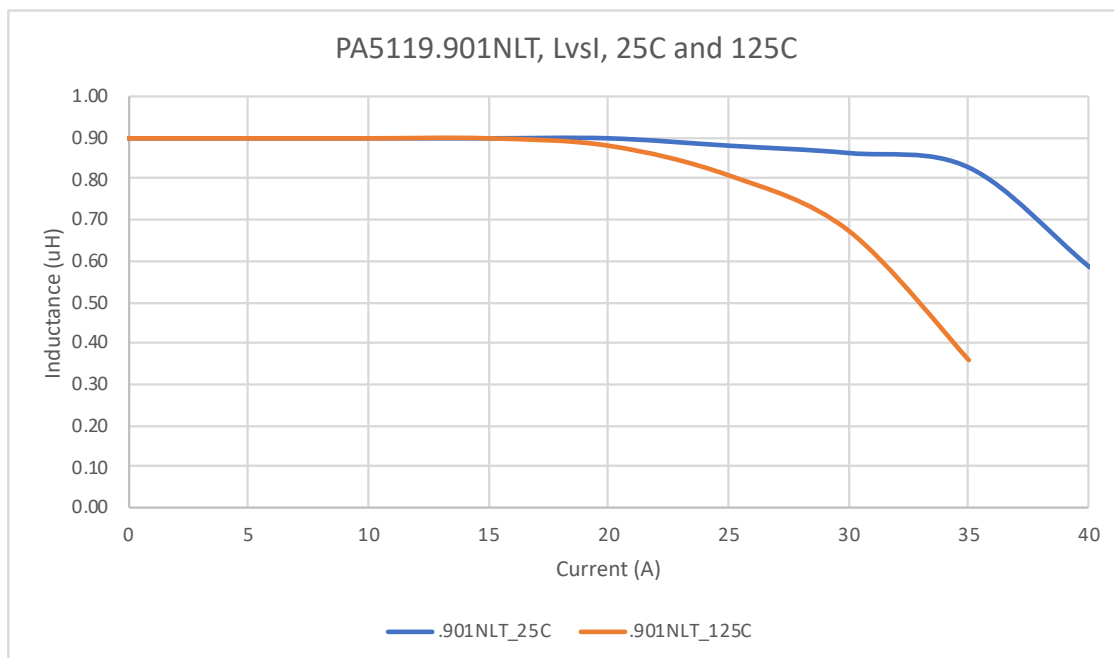
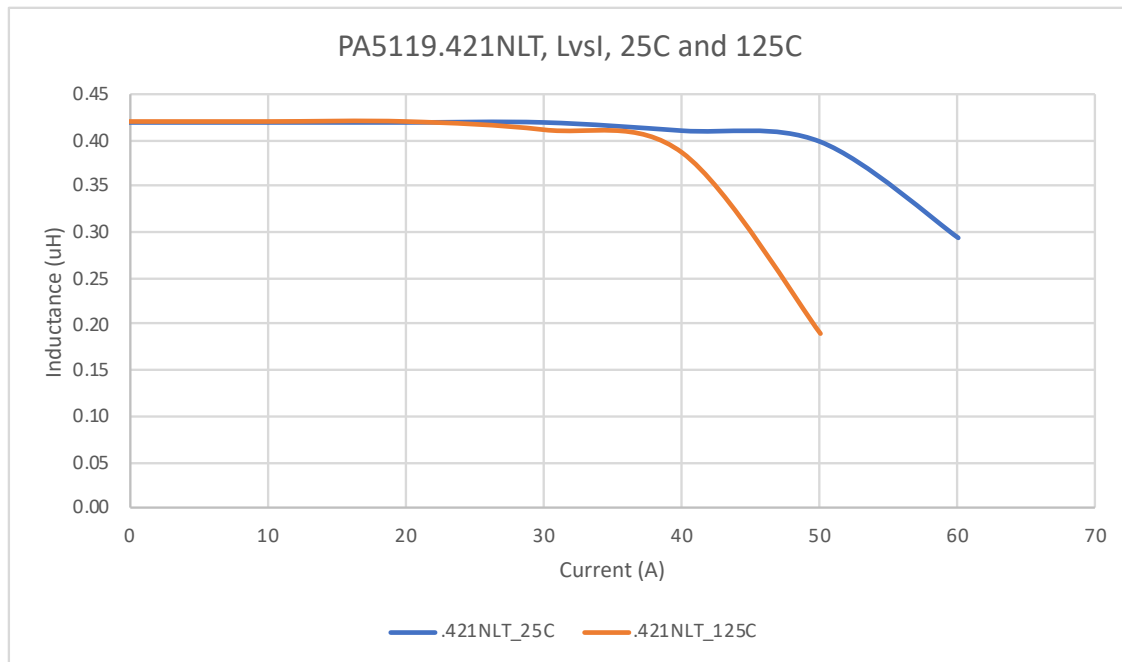


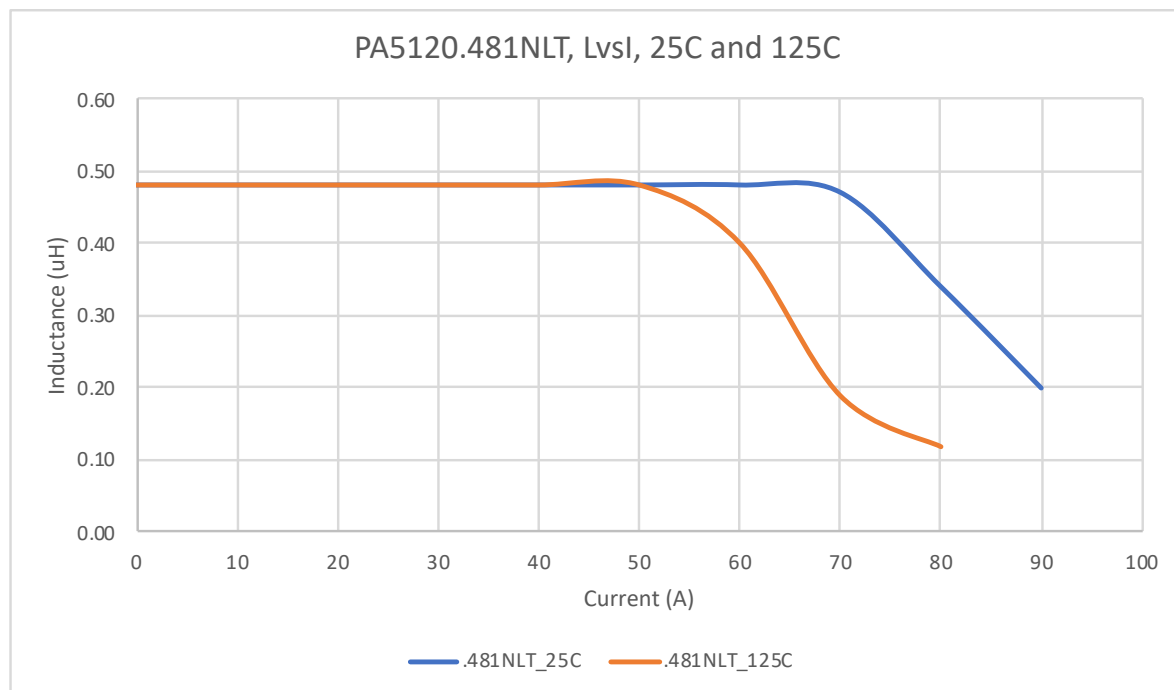
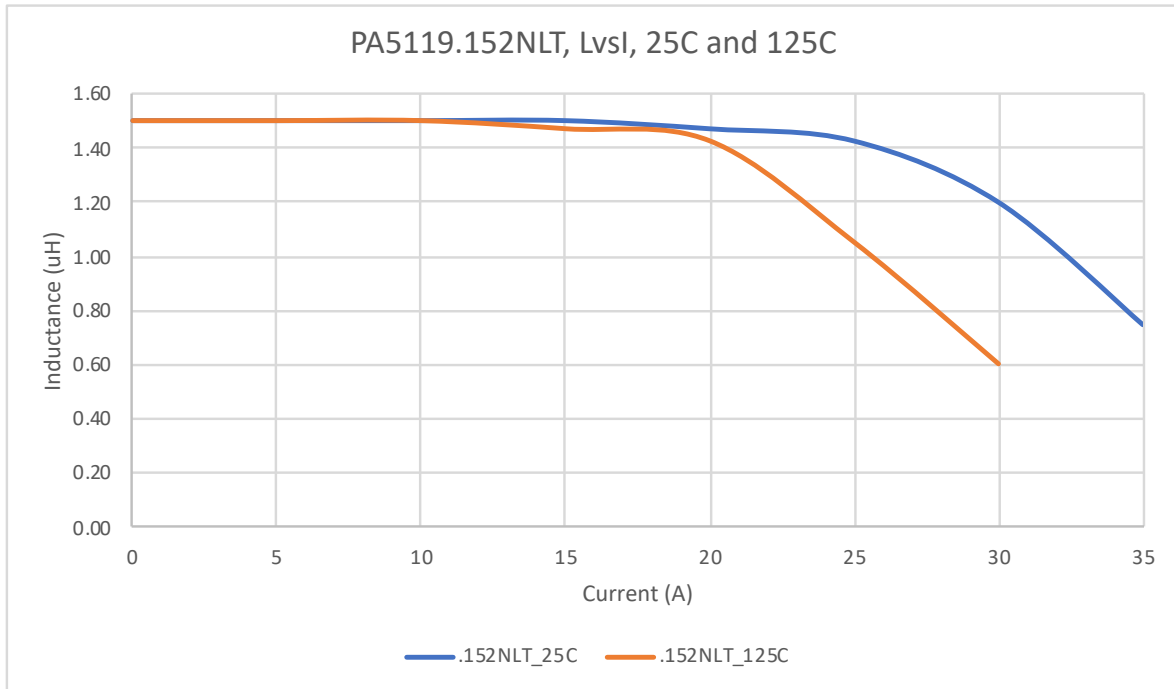
Weight: PA5119 - 3.5grms
PA5120 - 6.7grms

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

Dimensions: mm

Unless otherwise specified,
all tolerances are ± 0.25



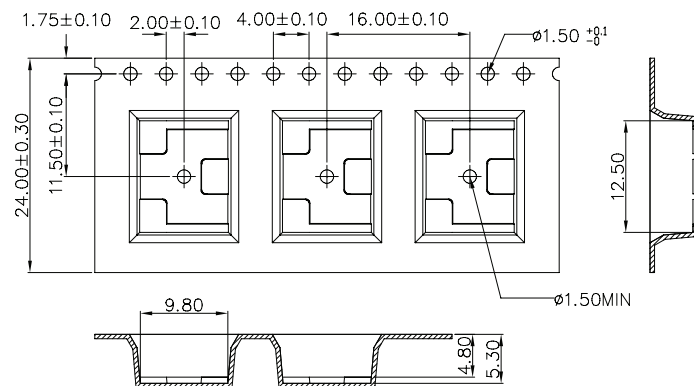


SMT Power Inductors

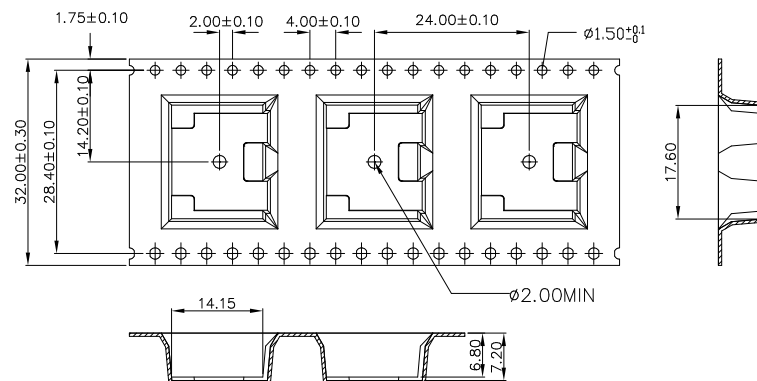
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TAPE & REEL INFO

PA5119.XXXNLT



PA5120.XXXNLT



For More Information:

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Pulse:

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