**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
- e Height: 5.0mm Max (PA5119) and 6.9mm Max (PA5120)
- *<sup>®</sup>* **Footprint:** 12.7mm x 10.2mm Max (PA5119)

17.8mm x 14.4mm Max (PA5120)

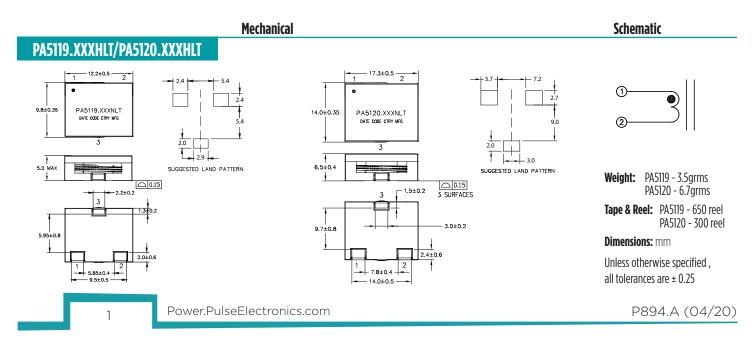
Electrical Specifications @ 25°C — Operating Temperature -40°C to +130°C <sup>7</sup>							
Part Number	Inductance <sup>1</sup> @ 0Aoc (uH ±10%)	Inductance <sup>2</sup> @Irated (uH TYP)	Irated <sup>3</sup> (ADC)	$DCR^4$ (m $\Omega$ ±10%)	Saturation Current <sup>5</sup> (A TYP)		Heating Current <sup>6</sup>
					25°C	125°C	(ATYP)
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:

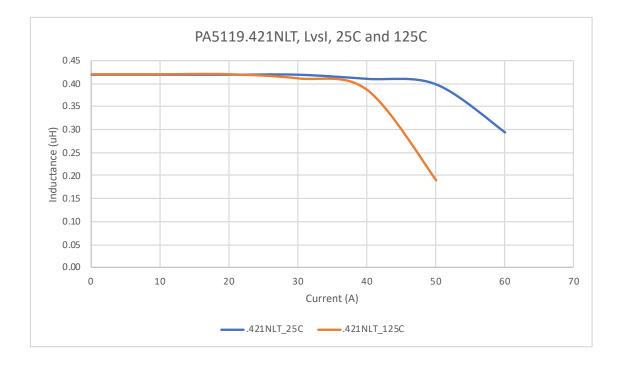
- 1. Inductance measured at 100kHz, 100mVrms.
- 2. Inductance at Irated is the value of the inductance at 25°C at the listed rated current.
- 3. The rated current as listed is either the saturation current (25°C or 125°C) or the heating current depending on which value is lower.
- 4. The nominal DCR 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

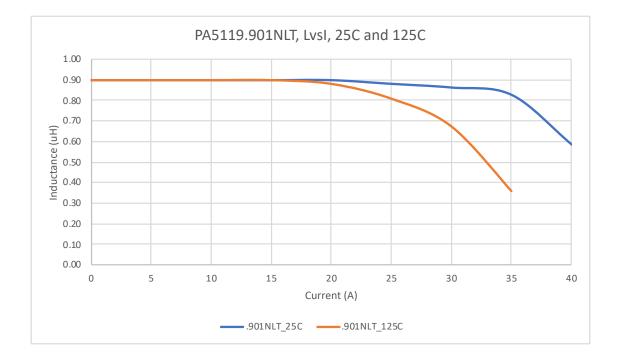
environment and applying a short duration pulse current (to eliminate self-heating effects) to the component.

- 6. The heating current is the DC current which causes the part temperature to increase by approximately  $40^{\circ}$ C when used in a typical application.
- 7. Parts with the HLT suffix are sold in tape and reel packaging. Pulse complies to industry standard tape and reel specification EIA-481.
- 8. The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.

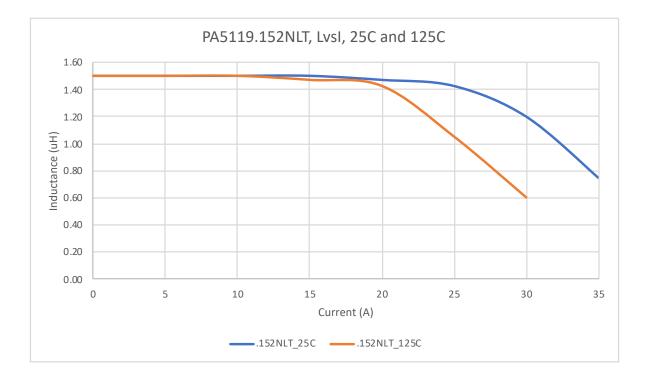


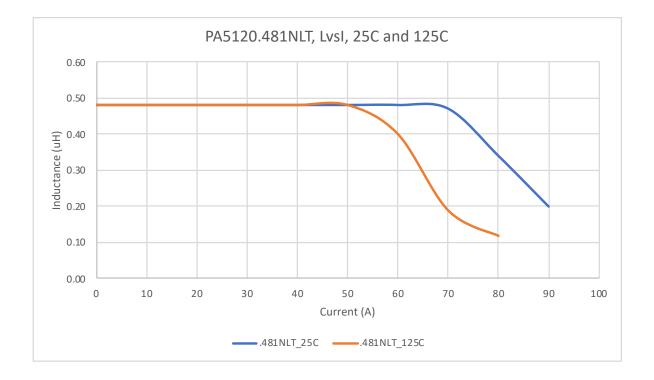










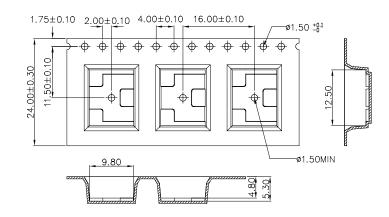


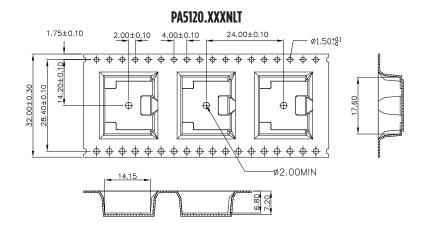
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## **TAPE & REEL INFO**

PA5119.XXXNLT





## For More Information:

Americas - prodinfo\_power@pulseelectronics.com | Europe - power-apps-europe@pulseelectronics.com | Asia - power-apps-asia@pulseelectronics.com

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