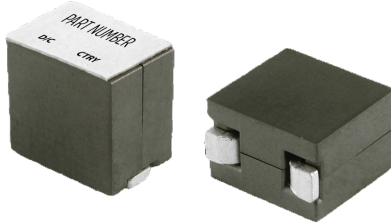






SMT Power Inductors

Power Beads - PA5161.XXXHLT Series




-  **Current Rating:** Over 125Apk
-  **Inductance Range:** 70nH to 150nH
-  **Height:** 10.4mm Max
-  **Footprint:** 9.6mm x 6.4mm Max

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

Part Number	Inductance ¹ @ 0A _{DC} (nH +/- 15%)	Inductance ² @ I _{rated} (nH TYP)	I _{rated} ³ (ADC)	DCR ⁴ (mΩ nominal)	Saturation Current ⁵ (A TYP)			Heating Current ⁶ (A TYP)
					25°C	100°C	125°C	
PA5161.700HLT	70	70	78	0.145+/-5%	125+	125+	125+	78
PA5161.800HLT	80	80	78		125+	125+	120	
PA5161.101HLT	100	100	78		113	96	89	
PA5161.121HLT	120	120	78		102	86	81	
PA5161.151HLT	150	120	64		76	64	60	

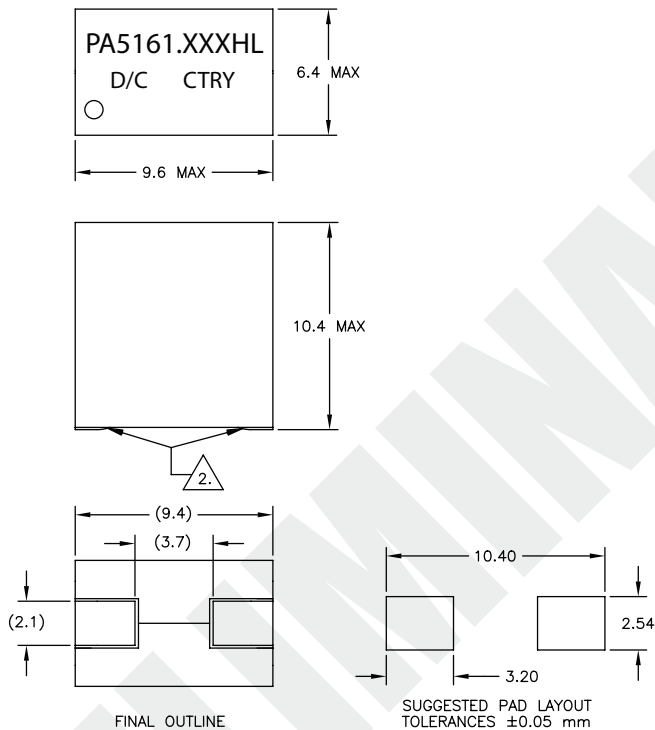
NOTES:

- 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 100°C) or the heating current depending on which value is lower.
- The nominal DCR is measured at point  as shown below on the mechanical drawing.
- The saturation current is the typical current which causes the inductance to drop by 20% at the stated ambient temperatures (25°C, 100°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.
- In high volt*time applications, additional heating in the component can occur due to core losses in the inductor which may necessitate derating the current in order to limit the temperature rise of the component. To determine the approximate total losses (or temperature rise) for a given application, the coreloss and temperature rise curves can be used.
- Parts with the HLT suffix are sold in tape and reel packaging. Pulse complies to industry standard tape and reel specification EIA-481. The tape and reel for this product has a width (W=24mm), pitch (Po=16mm) and depth (Ko=10.5mm). Samples of these parts can be ordered by removing the HLT suffix and replacing with HL.
- The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.

Mechanical

Schematic

PA5161.XXXHLT



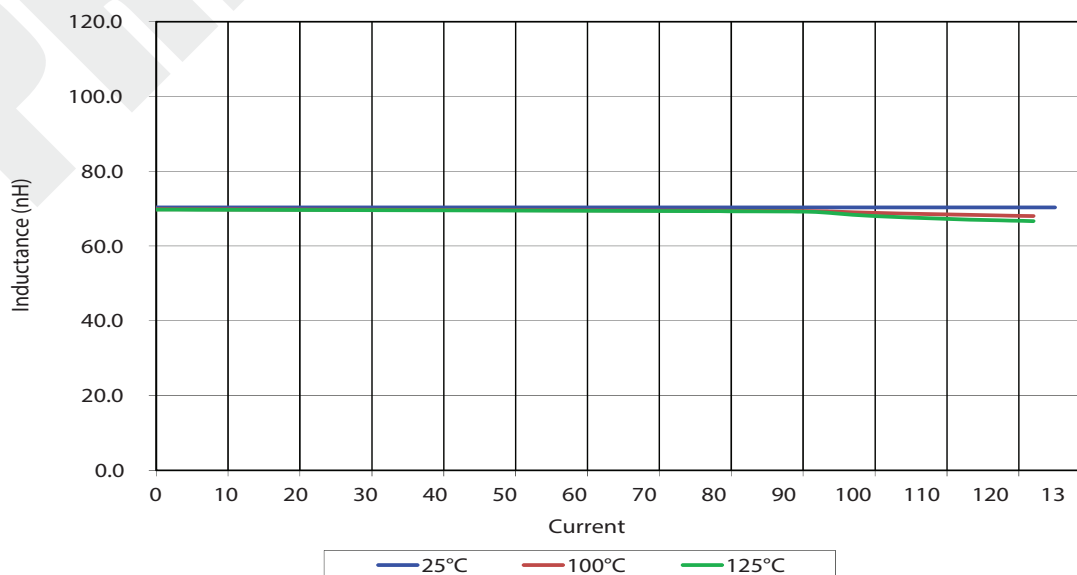
Weight: 2.65grms

Tape & Reel: 300/ Reel

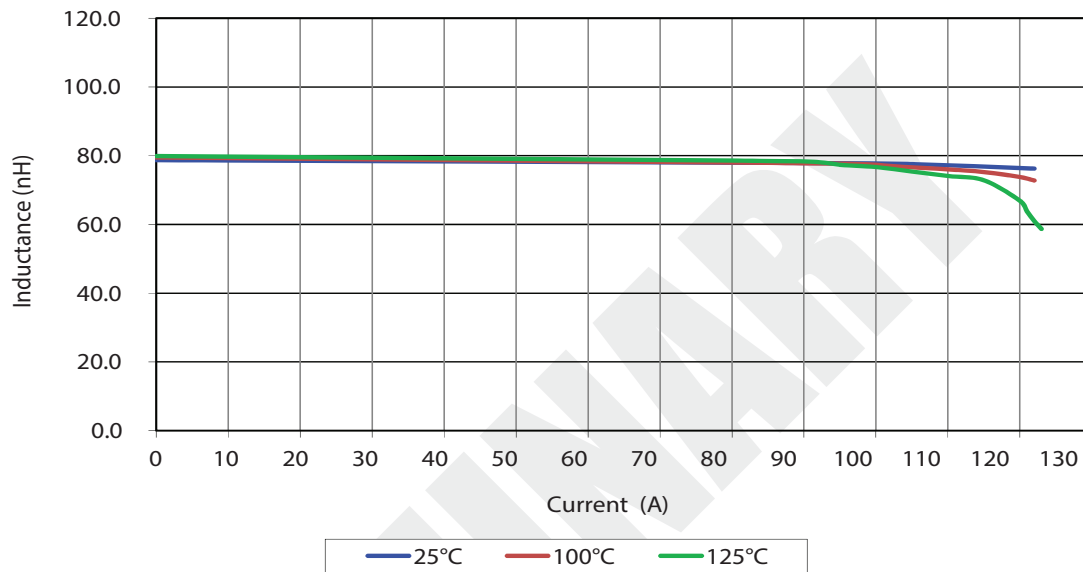
Dimensions: mm

Unless otherwise specified,
all tolerances are ± 0.25

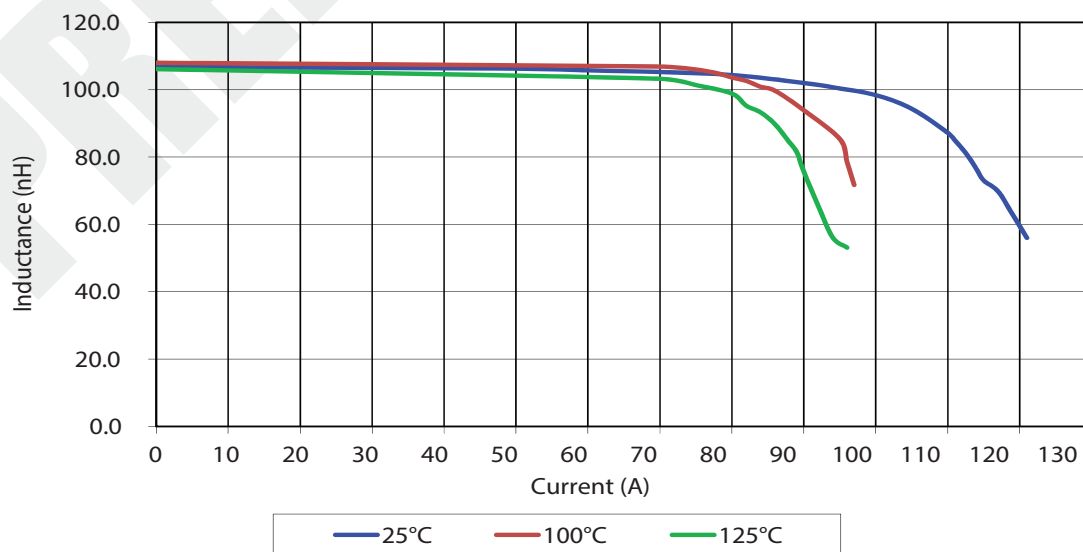
PA5161.700HL, LvsI, 25°C/100°C/125°C

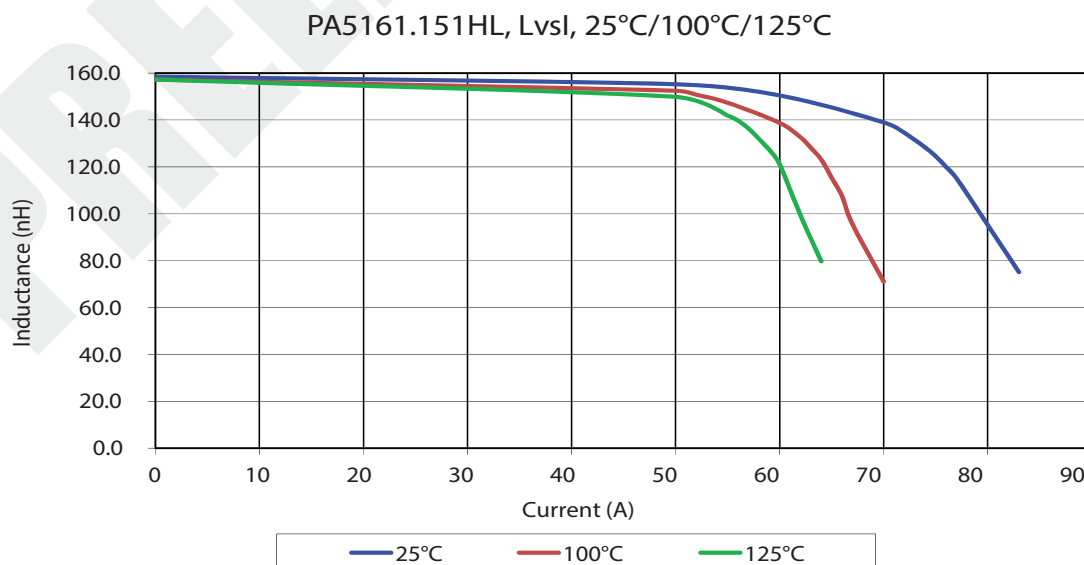
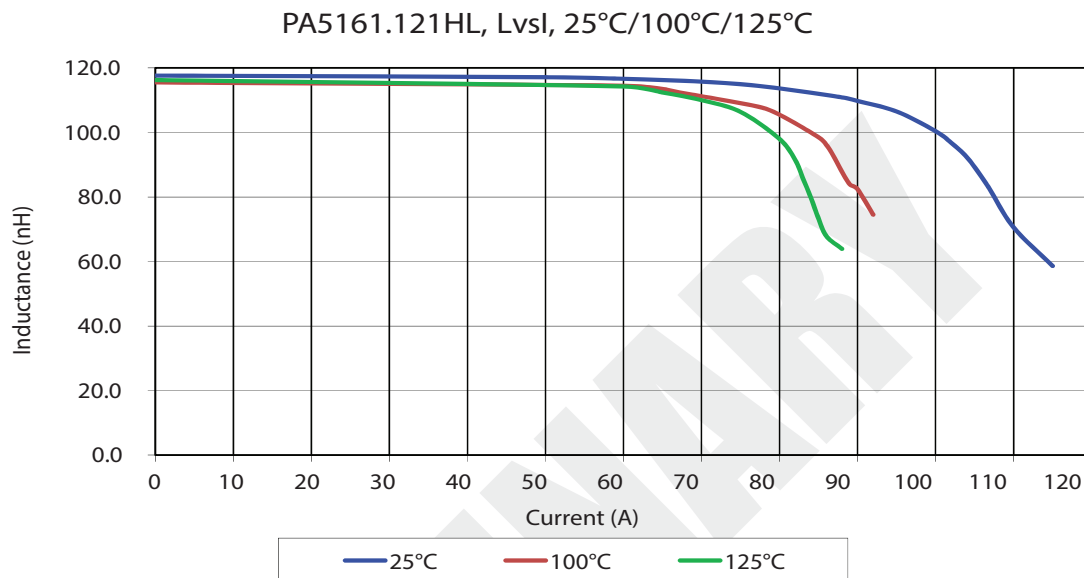


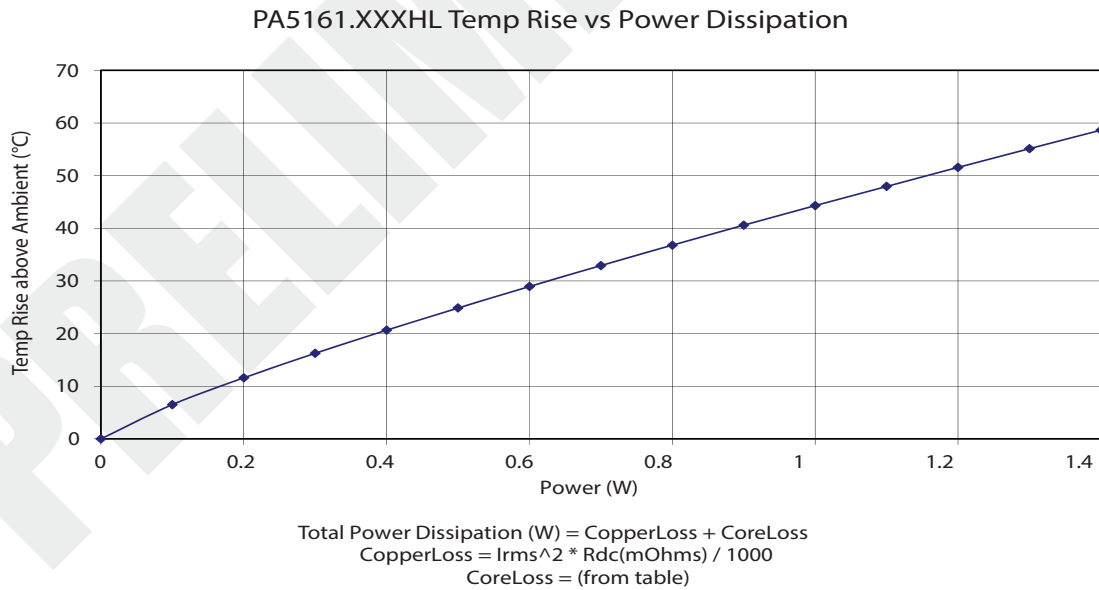
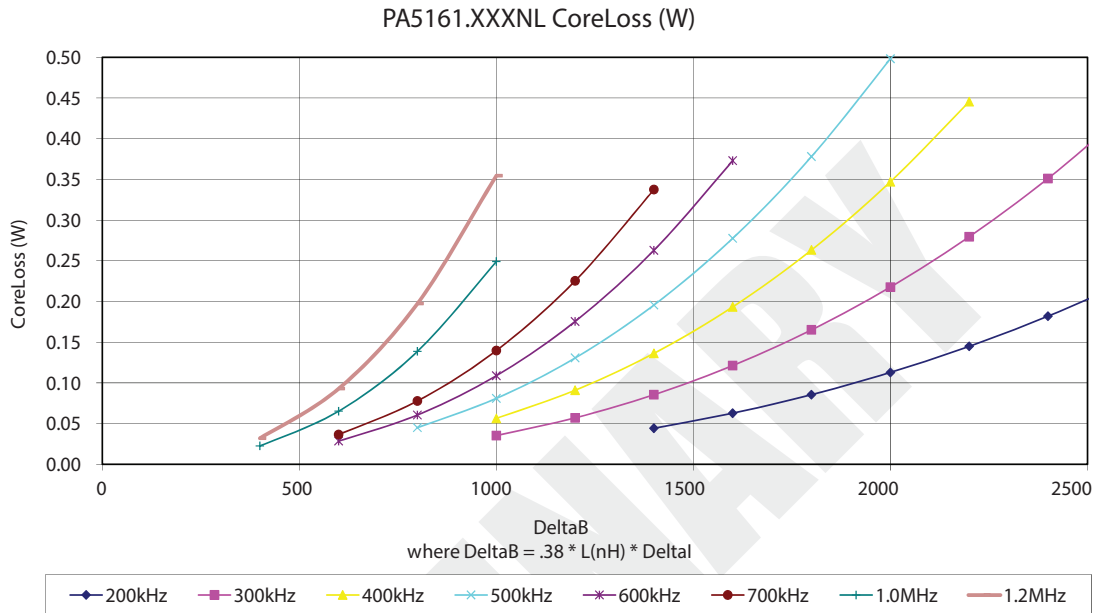
PA5161.800HL, LvsI, 25°C/100°C/125°C



PA5161.101HL, LvsI, 25°C/100°C/125°C







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