SMT Power Inductors

Power Beads - PA3784.XXXHL Series







- 🤗 Current Rating: Over 94 Apk
- @ Inductance Range: 120nH to 180nH
- 🥐 Height: 8.0 mm Max
- *P* **Footprint:** 10.0mm x 8.0mm Max

Electrical Specifications @ 25°C — Operating Temperature -40°C to +130°C7										
Part Number	Inductance ¹ @ 0ADC (nH +/- 10%)	Inductance ² @Irated (nH TYP)	Irated ³ (ADC)	DCR^4 (m Ω nominal)	Saturation Current ⁵ (A TYP)		Heating Current ⁶			
Commerical					25°C	100°C	(A TYP)			
PA3784.121HL	120	120	84	0.18 +/- 5%	94	84	70			
PA3784.151HL	150	150	67		83	67				
PA3784.181HL	180	165	55		67	55				

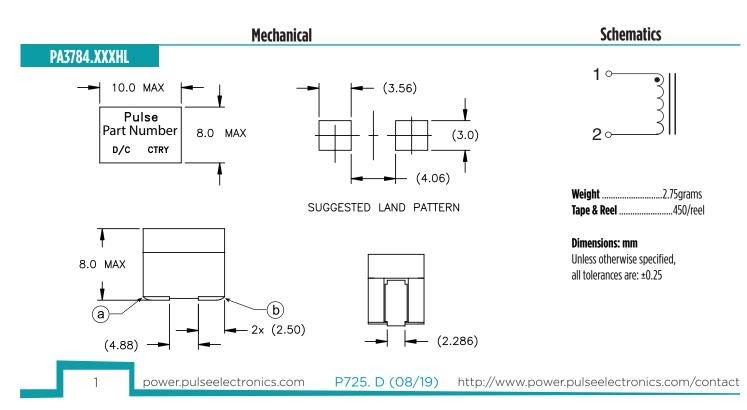
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NOTES:

- 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 100°C) or the heating current depending on which value is lower.
- 4. The nominal DCR is measured from point (1) to point (1), as shown below on the mechanical drawing.
- 5. The saturation current is the typical current which causes the inductance to drop by 20% at the stated ambient temperatures (25°C, 100°C and 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 9. 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 neccessitate 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.
- Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (i.e. PA3784.121HL becomes PA3784.121HLT).

Pulse complies to industry standard tape and reel specification EIA481. The tape and reel for this product has a width (W=24mm), pitch (Po=16.0mm) and depth (Ko=8.2mm).

The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.

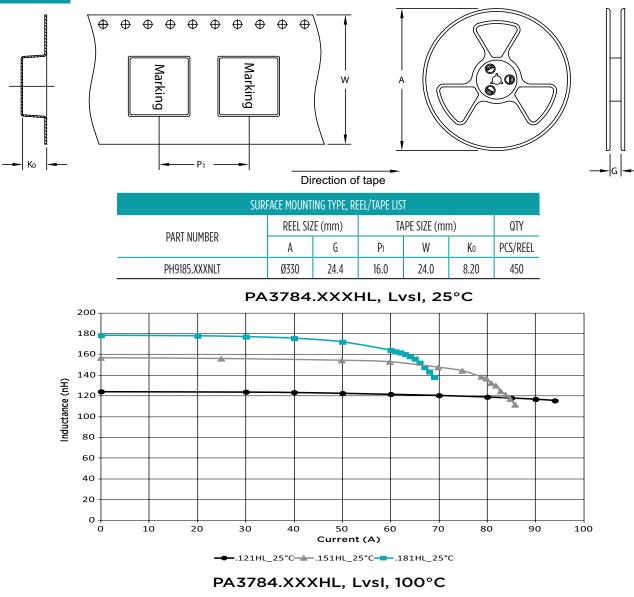


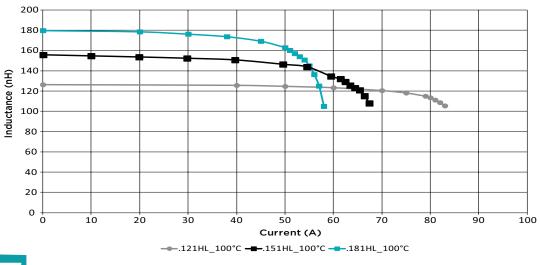
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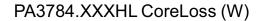
TAPE & REEL INFO

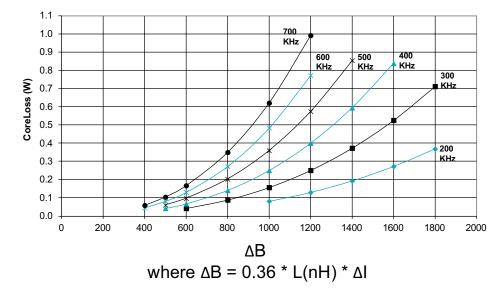


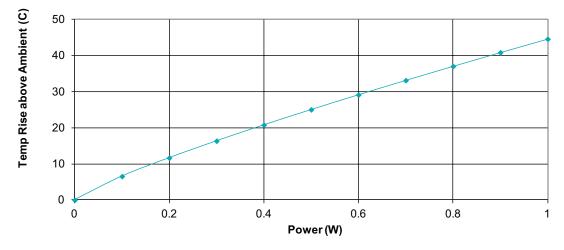


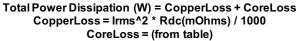
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