SMT Power Inductors

Power Beads - PA3146.XXXHL Series

- *Two non-coupled inductors integrated into a single package*
- *Less board space and lower cost than two separate inductors*
- ***Current Rating:*** *Over 94Apk*
- ***Inductance Range:*** *115µH to 300µH*
- ***Height:*** *7.6mm Max*
- ***Footprint:*** *13.7mm x 10.5mm*
- *Halogen Free*

Electrical Specifications @ 25°C – Operating Temperature -40°C to +130°C[7]

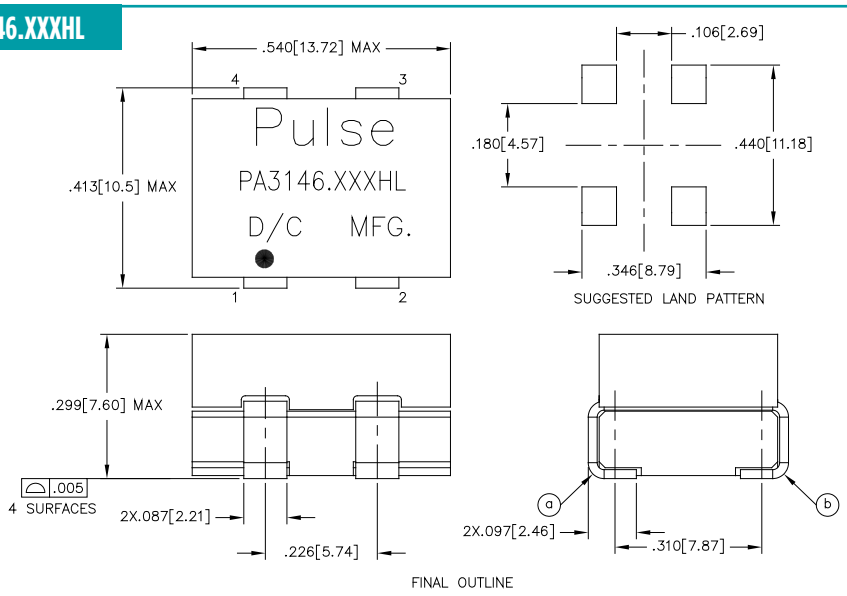
Part Number	Inductance @ 0A$_{DC}$ (nH ±15%)	Inductance @ Irated (nH TYP)	Irated[1] (A_{DC})	DCR[2] (mΩ nominal)	Saturation Current[3] (A TYP) 25°C	Saturation Current[3] (A TYP) 100°C	Heating Current (A TYP)
PA3146.121HL	115	115	30	0.29 ± 10% (per phase)	94	78	30A/phase
PA3146.151HL	150	150	30		72	60	
PA3146.181HL	175	175	30		62	52	
PA3146.211HL	215	215	30		48	43	
PA3146.231HL	230	230	30		43	39	
PA3146.271HL	270	270	30		37	33	
PA3146.301HL	300	240	28		32	28	

Notes:

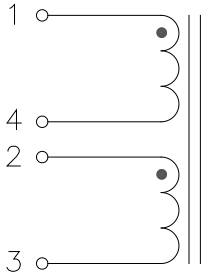
1. The rated current as listed is either the saturation current or the heating current depending on which value is lower.
2. The nominal DCR is measured from point a to point b , as shown below on the mechanical drawing.
3. The saturation current is the typical current which causes the inductance to drop by 20% at the stated ambient temperatures (25°C and 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.
4. The heating current is the DC current which causes the part temperature to increase by approximately 40°C.
5. 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 core loss and temperature rise curves can be used.
6. Optional Tape & Reel package can be ordered by adding a "T" suffix to the part number (i.e. PA3146.211HL becomes PA3146.211HLT). 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=7.8mm).
7. The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.

Mechanical

PA3146.XXXHL



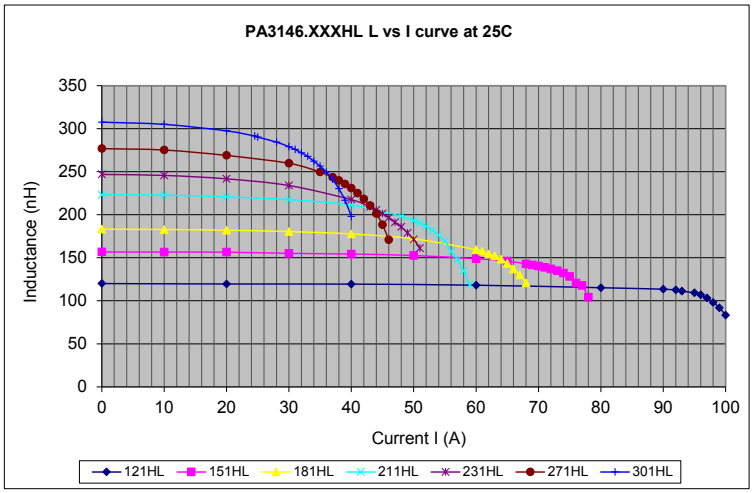
Schematics

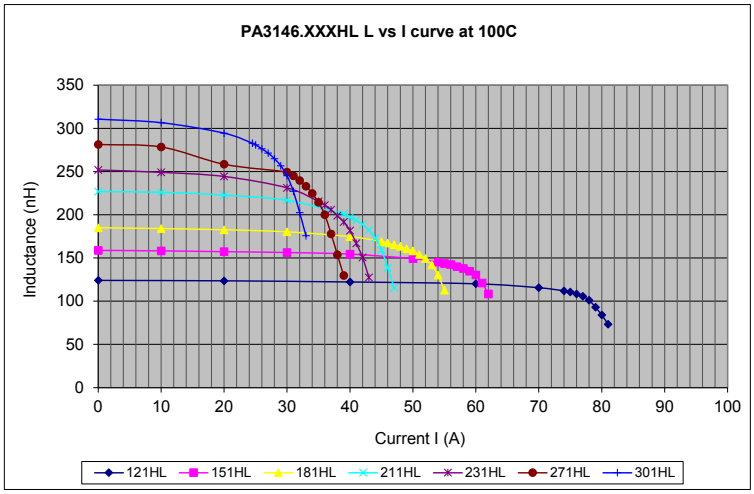


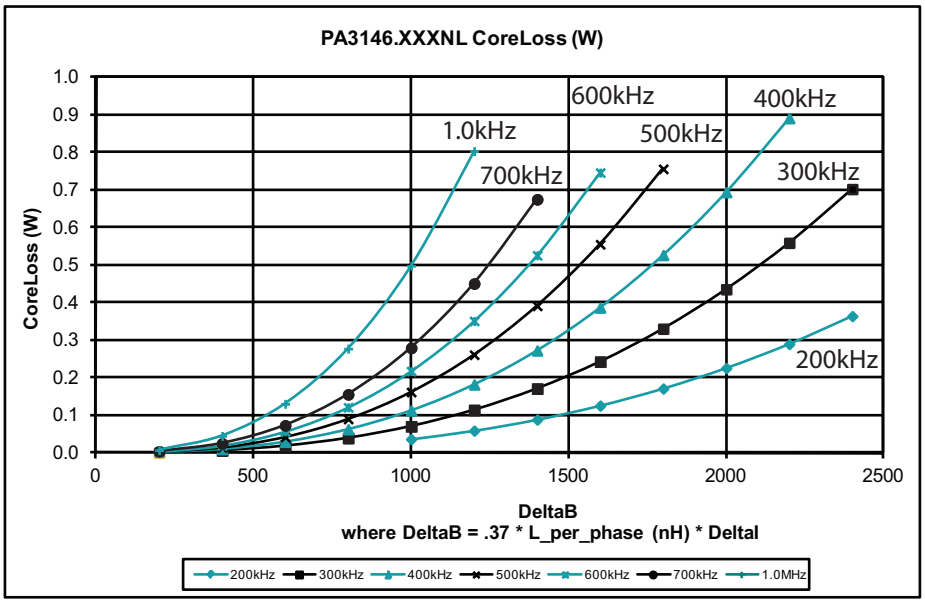
Weight 4.1grams
Tape & Reel 400/reel
Dimensions: Inches / mm

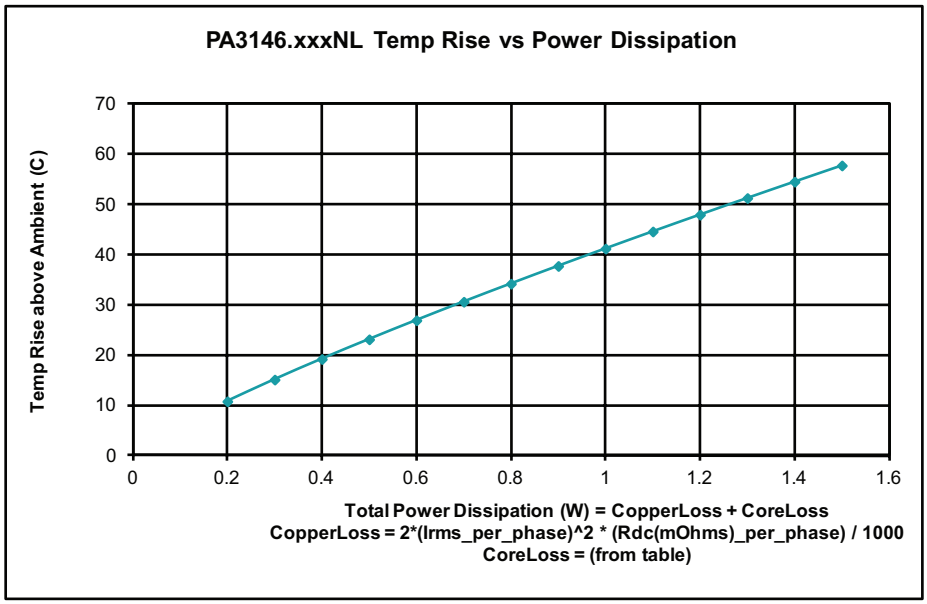
Unless otherwise specified, all tolerances are ± .010 / 0,25

Typical Inductance vs DC Bias









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单击下面可查看定价，库存，交付和生命周期等信息

>>Pulse(普思)