

SMT Power Inductors

Power Beads - PA2892.XXXHL Series



- Current Rating:** Over 81A_{pk}
- Inductance Range:** 200nH to 470nH
- Height:** 9.14mm Max
- Footprint:** 11.4mm x 11.2mm Max
- Halogen Free**

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

Part Number	Inductance ¹ @ 0A _{DC} (nH +/- 10%)	Inductance ² @ I _{rated} (nH TYP)	I _{rated} ³ (A _{DC})	DCR ⁴ (mW nominal)	Saturation Current ⁵ (A TYP)		Heating Current ⁶ (A TYP)
					25°C	100°C	
PA2892.201HL	200	200	40	0.42 +/- 10%	80	63	40
PA2892.221HL	225	225	40		74	59	
PA2892.271HL	270	270	40		56	46	
PA2892.321HL	325	305	38.5		48	38.5	
PA2892.471HL	470	450	25.5		30	25.5	

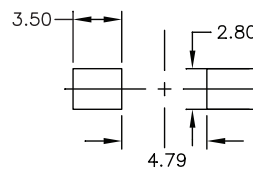
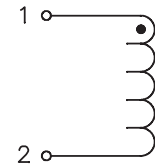
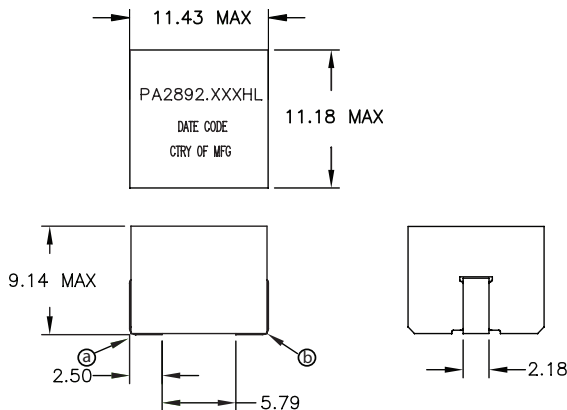
Notes:

- Inductance is 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 or the heating current depending on which value is lower.
- The nominal DCR is measured from point (a) to (b), 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.
- Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (i.e. PA2892.471HL becomes PA2892.471HLT). Pulse complies to the industry standard type and reel specification EIA481. The tape and reel for this product has a width (W=24mm), pitch (Po=24mm) and depth (Ko=10.1mm).
- The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.

Mechanical

Schematic

PA2892.XXXHL



Weight4.5 grams
Tape & Reel250/reel

Dimensions: mm

Unless otherwise specified, all tolerances are ± 0,25

USA 858 674 8100

Germany 49 7032 7806 0

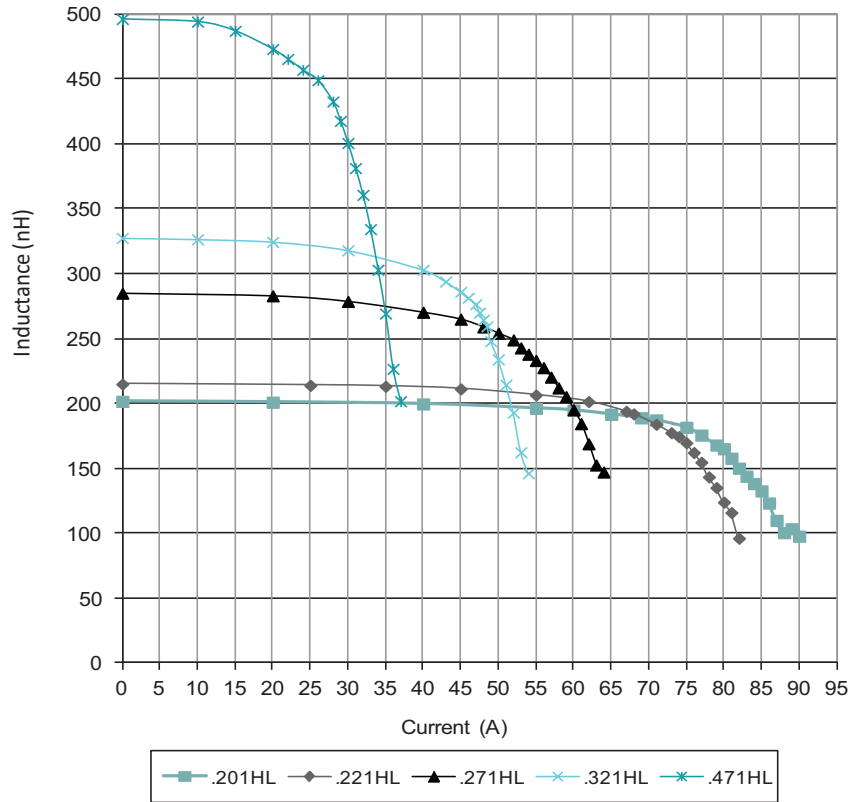
Singapore 65 6287 8998

Shanghai 86 21 62787060

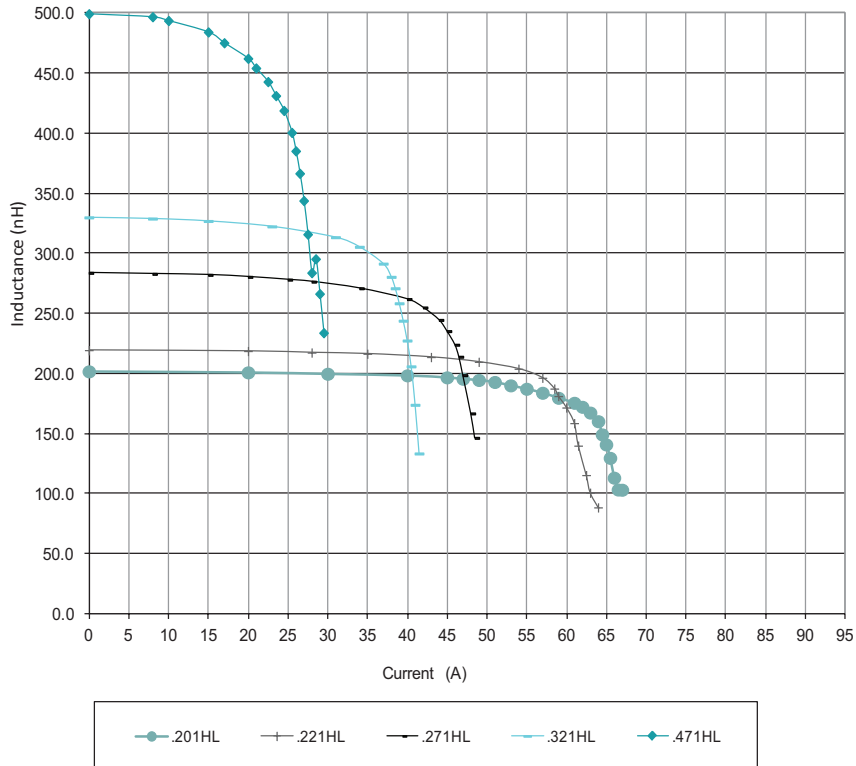
China 86 755 33966678

Taiwan 886 3 4356768

PA2892.XXXHL, L vs I curve, 25C



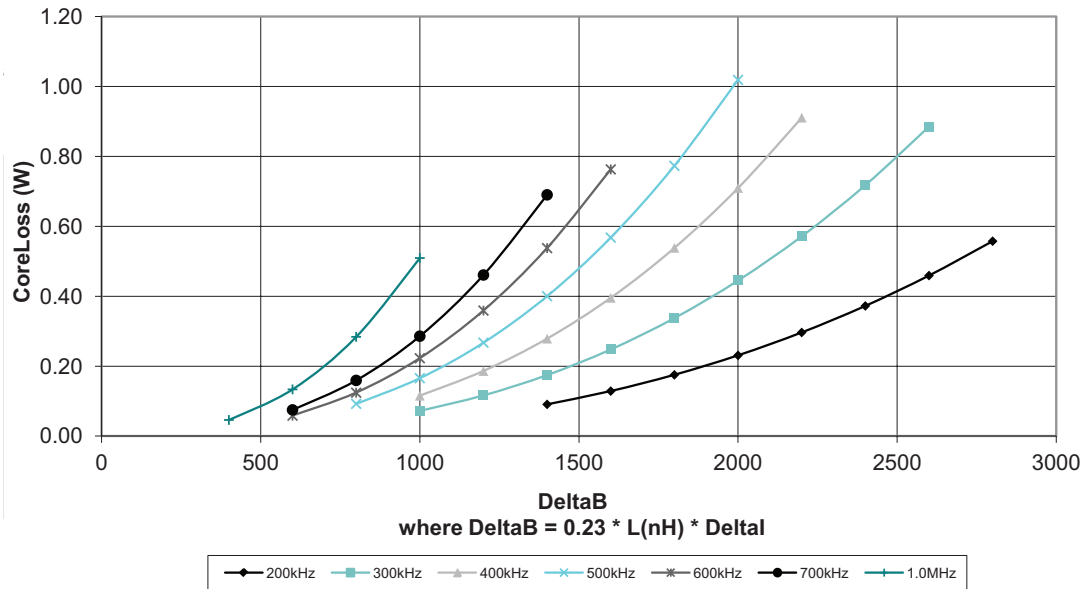
PA2892.XXXHL, L vs I, 100C



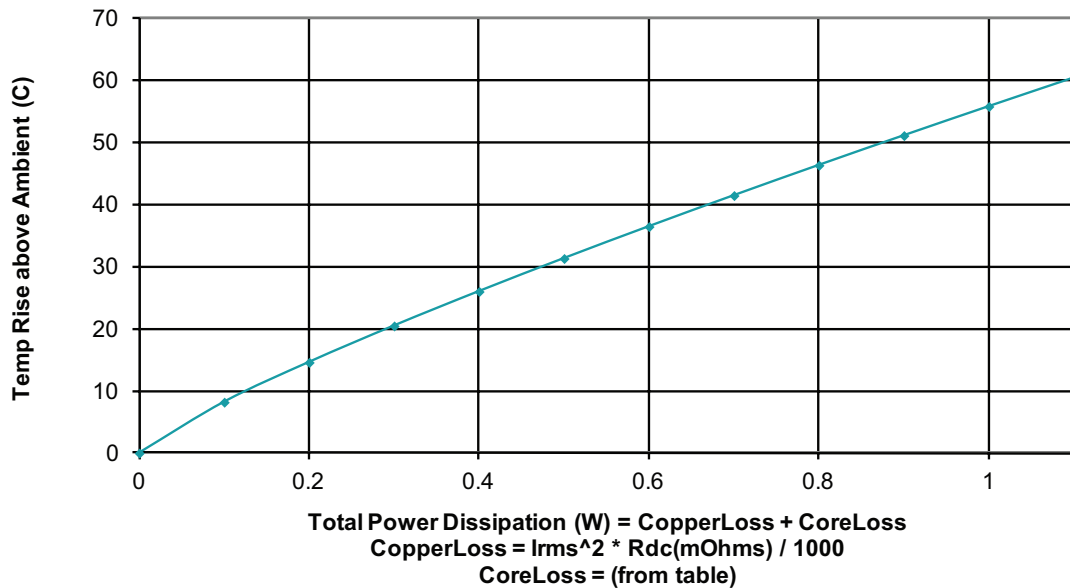
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PA2892.XXXNL CoreLoss (W)



PA2892.xxxNL Temp Rise vs Power Dissipation



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