# **SMT** Power Inductors

Power Beads - PA2891.XXXHL Series





- Current Rating: Over 72 Apk
- Inductance Range: 210nH to 440nH
- 🗣 Height: 8.0 mm Max
- 🗣 Footprint: 13.7mm x 12.95mm Max
- 🗢 Halogen Free

Electrical Specifications @ 25°C — Operating Temperature – 40°C to +130°C <sup>7</sup>							
Part Number	Inductance <sup>1</sup> @ OA <sub>DC</sub> (nH +/- 10%)	<b>Inductance<sup>2</sup></b> @ <b>Irated</b> (nH TYP)	Irated <sup>3</sup> (ADC)	<b>DCR <sup>4</sup></b> (mΩ nominal)	Saturation Current <sup>5</sup> (A TYP)		Heating Current <sup>6</sup>
					25°C	100°C	(A TYP)
PA2891.211HL	210	210	71	0.22 +/- 10%	85	71	72
PA2891.261HL	260	260	56		67	56	
PA2891.321HL	320	315	45		56	45	
PA2891.441HL	440	440	30		38	30	

#### 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 (a) to point (b), 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.

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.

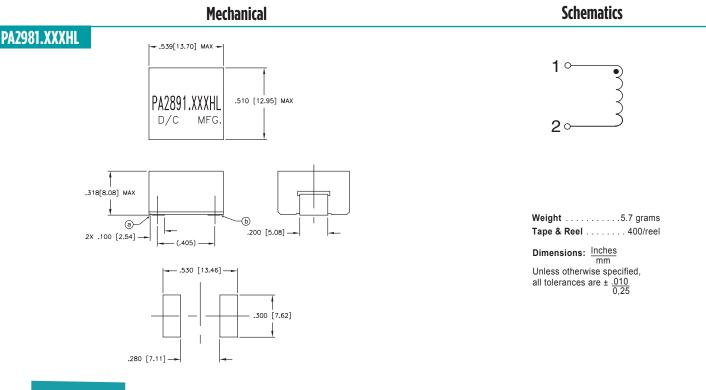
rise curves can be used.
8. Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (i.e. PA2891.211HL becomes PA2891.211HL).

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=9.8mm).

 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 deter-

mine the approximate total losses (or temperature rise) for a given application, the coreloss and temperature

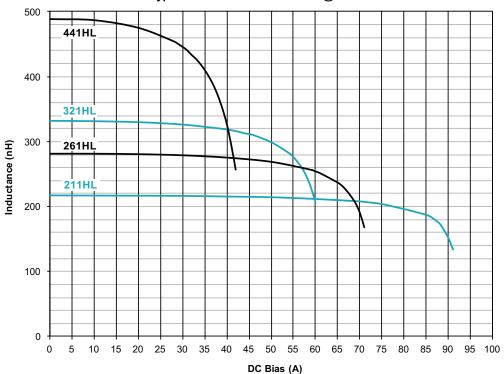
The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.



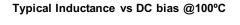
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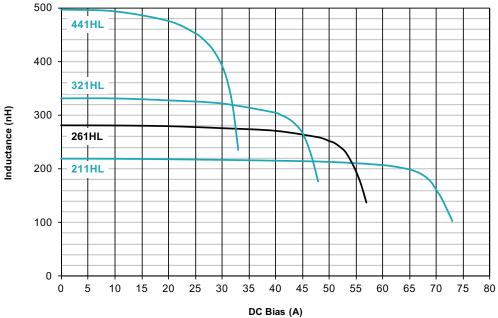
P711.B (5/14)





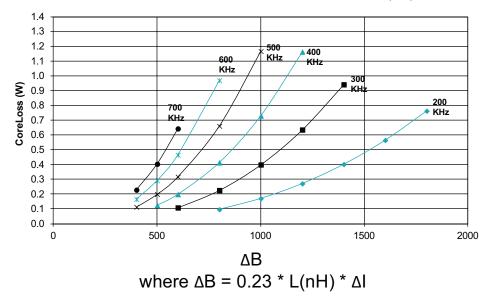
Typical Inductance vs DC bias @25°C



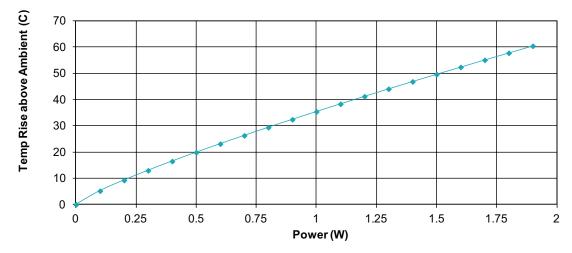


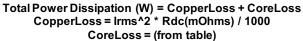


### PA2891.XXXHL CoreLoss (W)



## PA2891.XXXHL Temp Rise vs Power Dissipation





#### For More Information **Pulse Worldwide Pulse Europe Pulse China Headquarters Pulse North China Pulse South Asia Pulse North Asia** Einsteinstrasse 1 B402, Shenzhen Academy of Room 2704/2705 135 Joo Seng Road 3F, No. 198 Headquarters 12220 World Trade Drive Super Ocean Finance Ctr. Zhongyuan Road D-71083 Herrenberg Aerospace Technology Bldg. #03-02 10th Kejinan Road Zhongli City 2067 Yan An Road West PM Industrial Bldg. San Diego, CA 92128 Germany U.S.A. High-Tech Zone Shanghai 200336 Singapore 368363 Taoyuan County 320 Nanshan District China Taiwan R. O. C. Shenzhen, PR China 518057 Tel: 886 3 4356768 Tel: 858 674 8100 Tel: 49 7032 7806 0 Tel: 86 755 33966678 Tel: 86 21 62787060 Tel: 65 6287 8998 Fax: 886 3 4356823 (Pulse) Fax: 858 674 8262 Fax: 49 7032 7806 135 Fax: 86 755 33966700 Fax: 86 2162786973 Fax: 65 6287 8998 Fax: 886 3 4356820 (FRE) Performance warranty of products offered on this data sheet is limited to the parameters specified. Data is subject to change without notice. Other brand and product names mentioned herein may be

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3

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