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							
	Inductance	Inductance			Saturation Current ³ (A TYP)		
Part Number	@ ОА вс (nH ±15%)	@ Irated (nH TYP)	Irated ¹ (A _{DC})	extstyle ext	25°C	100°C	Heating Current (A TYP)
PA3146.121HL	115	115	30		94	78	
PA3146.151HL	150	150	30		72	60	
PA3146.181HL	175	175	30		62	52	
PA3146.211HL	215	215	30	$0.29 \pm 10\%$	48	43	30A/phase
PA3146.231HL	230	230	30	(per phase)	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.

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

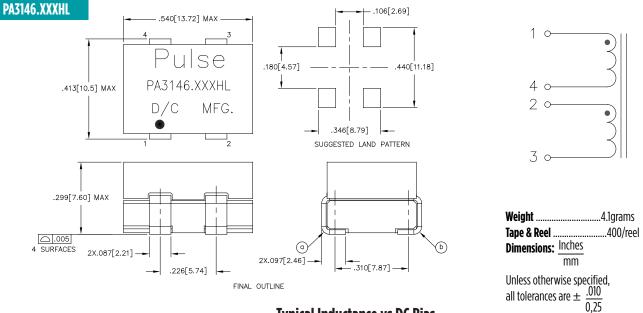
pulseelectronics.com P709.B (02/16)

SMT Power Inductors

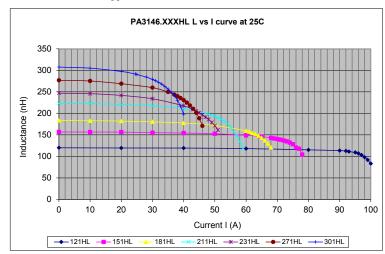
Power Beads - PA3146.XXXHL Series

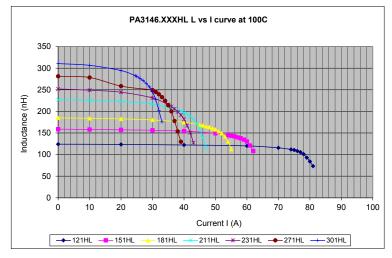


Mechanical Schematics



Typical Inductance vs DC Bias

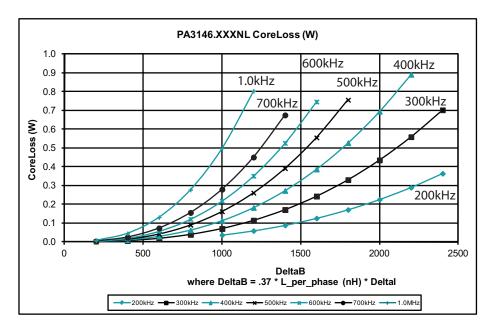


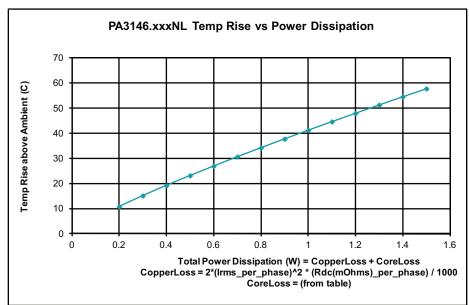


pulseelectronics.com P709.B (02/16)

SMT Power Inductors

Power Beads - PA3146.XXXHL Series





For More Information

3

Pulse Worldwide Headquarters

12220 World Trade Drive San Diego, CA 92128 U.S.A.

Tel: 858 674 8100

Fax: 858 674 8262

Pulse Europe Einsteinstrasse 1 D-71083 Herrenberg

Germany

Pulse China Headquarters B402. Shenzhen Academy of Aerospace Technology Bldg. 10th Kejinan Road High-Tech Zone Nanshan District

Shenzhen, PR China 518057 Tel: 86 755 33966678 Fax: 86 755 33966700

Pulse North China Room 2704/2705 Super Ocean Finance Ctr. 2067 Yan An Road West

Shanghai 200336 China

Tel: 86 21 62787060 Tel: 65 6287 8998 Fax: 86 2162786973 Fax: 65 6287 8998 **Pulse North Asia**

3F. No. 198 Zhongyuan Road Zhongli City Taoyuan County 320 Taiwan R. O. C. Tel: 886 3 4356768 Fax: 886 3 4356823 (Pulse) 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 trademarks or registered trademarks of their respective owners. © Copyright, 2016. Pulse Electronics, Inc. All rights reserved.



Tel: 49 7032 7806 0

Fax: 49 7032 7806 135

pulseelectronics.com

P709.B (02/16)

Pulse South Asia

135 Joo Seng Road

PM Industrial Bldg.

Singapore 368363

#03-02

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Fixed Inductors category:

Click to view products by Pulse manufacturer:

Other Similar products are found below:

CR43NP-680KC CR54NP-820KC CR54NP-8R5MC CTX32CT-100 70F224AI MGDQ4-00004-P MHL1ECTTP18NJ MHL1JCTTD12NJ PE-51506NL PE-53601NL PE-53602NL PE-53630NL PE-53824SNLT PE-62892NL PE-92100NL PG0434.801NLT PG0936.113NLT 9310-16 PM06-2N7 PM06-39NJ A01TK 1206CS-471XJ HC2-2R2TR HC2LP-R47-R HC3-2R2-R 1206CS-151XG RCH664NP-140L RCH664NP-4R7M RCH8011NP-221L RCP1317NP-332L RCP1317NP-391L RCR1010NP-470M RCR110DNP-331L DH2280-4R7M DS1608C-106 ASPI-4020HI-R10M-T B10TJ B82477P4333M B82498B3101J000 B82498B3680J000 ELJ-RE27NJF2 1812CS-153XJ 1812CS-183XJ 1812CS-223XJ 1812LS-104XJ 1812LS-105XJ 1812LS-124XJ 1812LS-154XJ 1812LS-223XJ 1812LS-224XJ