# IHHP-0806AB-01

www.vishay.com

Vishay Dale

# Low Profile, High Current Inductors



STANDARD ELECTRICAL SPECIFICATIONS								
L <sub>0</sub> INDUCTANCE ± 20 % AT 100 kHz, 0.25 V, 0 A	DCR 25 °C (mΩ)		HEAT RATING CURRENT DC (A) <sup>(3)</sup>		SATURATION CURRENT DC (A) <sup>(4)</sup>			
0.23 <b>ν</b> , 0 Α (μΗ)	TYP.	MAX.	TYP.	MAX.	TYP.	MAX.		
0.22	13	16	5.30	4.77	5.80	5.20		
0.24	16	20	4.70	4.20	5.40	4.90		
0.47	29	35	4.20	3.80	4.40	3.60		
1.0	48	58	2.70	2.35	3.34	3.00		
1.5	89	104	2.20	2.00	2.60	2.20		
2.2	133	155	1.8	1.6	1.9	1.65		

#### Notes

<sup>(1)</sup> All test data is referenced to 25 °C ambient.

<sup>(2)</sup> Operating temperature range -55 °C to +125 °C.

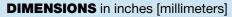
- <sup>(3)</sup> DC current (A) that will cause an approximate  $\Delta T$  of 40 °C.
- <sup>(4)</sup> DC current (A) that will cause  $L_0$  to drop approximately 30 %.
- (5) The part temperature (ambient + temp. rise) should not exceed 125 °C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

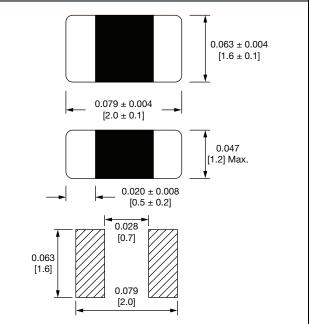
### **FEATURES**

- · Magnetic alloy power choke coil
- Miniature size (2.0 x 1.6) and low profile
- Magnetic shielded
- Low acoustic noise and high efficiency
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

### **APPLICATIONS**

- PDA / notebook / desktop / server applications
- High current POL converters
- · Low profile, high current power supplies
- Battery powered devices
- DC/DC converters in distributed power systems
- DC/DC converter for Field Programmable Gate Array (FPGA)





DESCRIPTION	1						
IHHP-0806AB-01	1.0 µH	± 20 %	ER	e3			
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC <sup>®</sup> LEAD (Pb)-FREE STANDARD			
GLOBAL PART NUMBER							
ІНН	P 0 8	0 6 A B	E R 1	R 0 M 0 1			
PRODUCT FAN	/ILY	SIZE	PACKAGE CODE	INDUCTANCE TOL. SERIES VALUE			
Revision: 30-Aug-16		1		Document Number: 343			
For tooknight quartiena, contact; magnetica@vickey.com							



RoHS COMPLIANT HALOGEN FREE

For technical questions, contact: <u>magnetics@vishay.com</u>

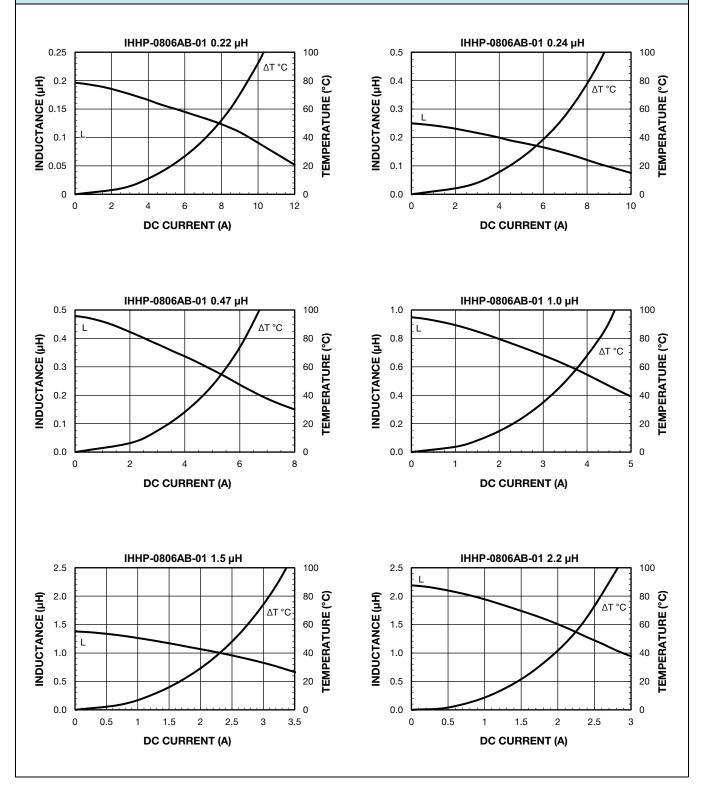
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#### **PERFORMANCE GRAPHS**



Revision: 30-Aug-16

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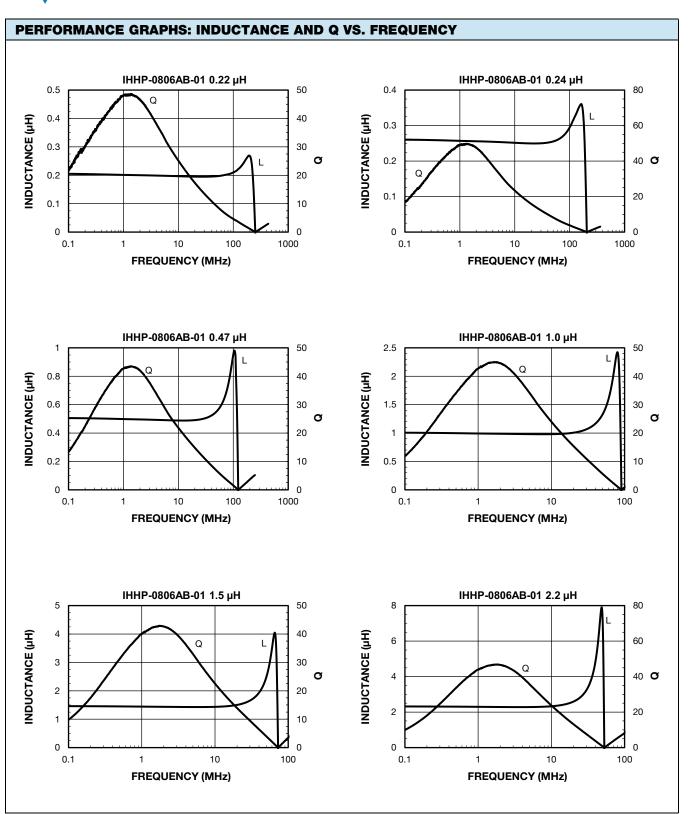
Document Number: 34389

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