# IHHP-0603ZH-01

www.vishay.com

Vishay Dale

## Low Profile, High Current Inductors



STANDARD ELECTRICAL SPECIFICATIONS								
L <sub>0</sub> INDUCTANCE ± 20 % AT 1 MHz,	DCR 25 °C (mΩ)		HEAT RATING CURRENT DC (A) <sup>(3)</sup>		SATURATION CURRENT DC (A) <sup>(4)</sup>			
1.0 V, 0 A (μH)	TYP.	MAX.	TYP.	MAX.	TYP.	MAX.		
0.47	36	43	3.3	3.0	3.4	3.1		
1.0	95	110	2.0	1.8	2.3	2.1		

#### Notes

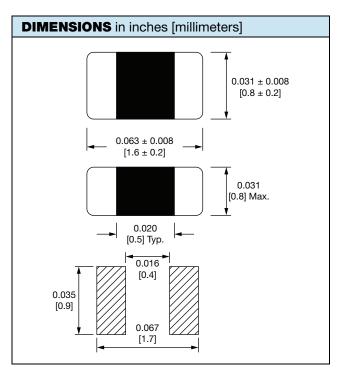
- <sup>(1)</sup> All test data is referenced to 25 °C ambient
- (2) Operating temperature range -55 °C to +125 °C
- $^{(3)}$  DC current (A) that will cause an approximate  $\Delta T$  of 40 °C
- $^{(4)}\,$  DC current (A) that will cause  $L_0$  to drop approximately 30 %
- <sup>(5)</sup> The part temperature (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**

- · Composite powdered iron construction
- Miniature size (1.6 x 0.8) and low profile
- Magnetic shielded
- Low DCR and core loss for improved efficiency
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

#### **APPLICATIONS**

- Portable electronics
- Tablets and notebook computers
- POL DC/DC converters
- Battery powered devices
- Internet of things (IoT) devices



	DESCRIPTION						
	e3	ER	± 20 %	1.0 μH	IHHP-0603ZH-01		
ANDARD	JEDEC <sup>®</sup> LEAD (Pb)-FREE STAND	PACKAGE CODE	INDUCTANCE TOLERANCE	INDUCTANCE VALUE	MODEL		
	JEDEC <sup>®</sup> LEAD (Pb)-FREE STA	PACKAGE CODE	INDUCTANCE TOLERANCE	INDUCTANCE VALUE	MODEL		

I H H P 0 6 0 3 Z H E R 1 R 0 M 0 1   PRODUCT FAMILY SIZE SIZE PACKAGE CODE INDUCTANCE VALUE TOL. SERIES	GLOBAL PART NUMBER						
	PRODUCT FAMILY	SIZE					

Revision: 10-May-2022

1 For technical questions, contact: magnetics@vishay.com THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE. THE PRODUCTS DESCRIBED HEREIN AND THIS DOCUMENT

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Document Number: 34589

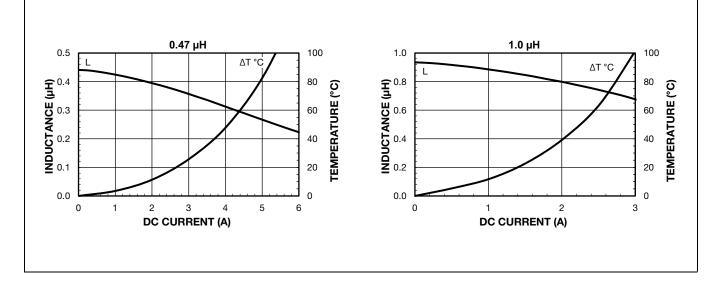
RoHS COMPLIANT

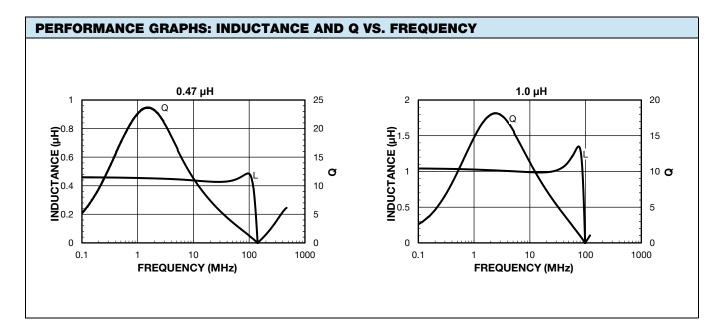


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### **PERFORMANCE GRAPHS**







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