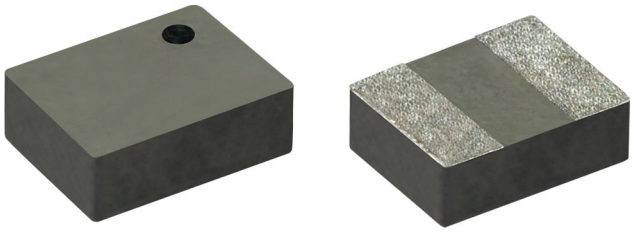
Ultra Small Footprint, High Current Inductors



FEATURES

- Magnetic alloy power choke coil
- Miniature 2.0 mm x 1.6 mm x 1.0 mm size
- Magnetic shielded
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

Pb-free

RoHS COMPLIANT

HALOGEN FREE GREEN (5-2008)

LINKS TO ADDITIONAL RESOURCES

Product Page

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)

STANDARD ELECTRICAL SPECIFICATIONS

PART NUMBER	L_0 INDUCTANCE ± 20 % AT 1 MHz, 1.0 V, 0 A (µH)	DCR TYP. 25 °C (mΩ)	DCR MAX. 25 °C (mΩ)	HEAT RATING CURRENT DC TYP. (A) (3)	SATURATION CURRENT DC TYP. (A) (4)
IHHP0806AZERR22M01	0.22	15	19	5.2	6.1
IHHP0806AZERR24M01	0.24	16	20.5	4.7	6
IHHP0806AZERR47M01	0.47	31	39	3.8	4.4
IHHP0806AZER1R0M01	1	49	65	3.1	3.5
IHHP0806AZER1R5M01	1.5	116	140	2.1	2.5
IHHP0806AZER2R2M01	2.2	132	158	2	2.1

Notes

(1) 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 ΔT of 40 °C

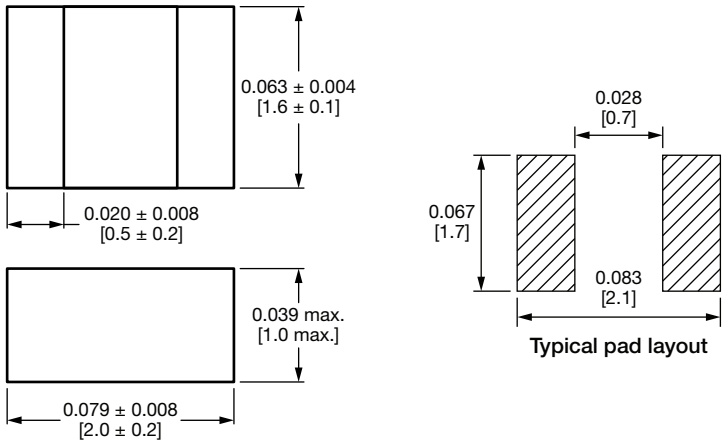
(4) DC current (A) that will cause L_0 to drop approximately 30 %

(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

For technical questions, contact: magnetics@vishay.com

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DIMENSIONS in inches [millimeters]



Typical pad layout

DESCRIPTION

IHHP-0806AZ-01	1.0 µH	± 20 %	ER	e3
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD

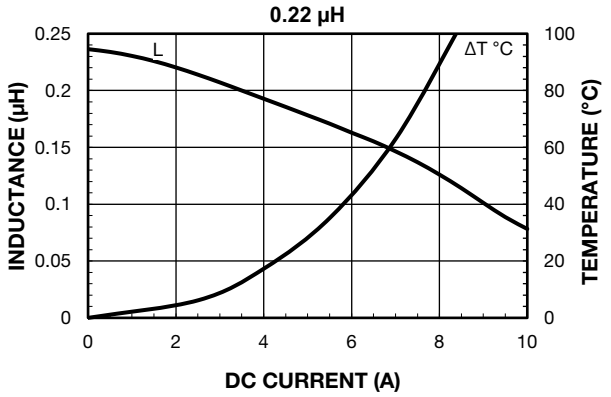
GLOBAL PART NUMBER

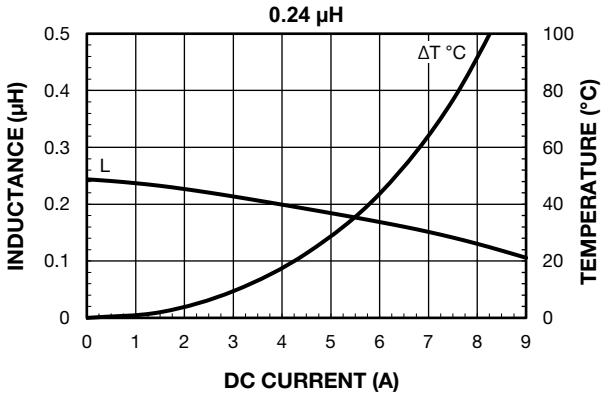
I H H P	0 8 0 6 A Z	E R	1 R 0	M	0 1
PRODUCT FAMILY	SIZE	PACKAGE CODE **ER** = tape and reel	INDUCTANCE VALUE **1R0** = 1.0 µH	INDUCTANCE TOLERANCE **M** = ± 20 % **N** = ± 30 %	SERIES

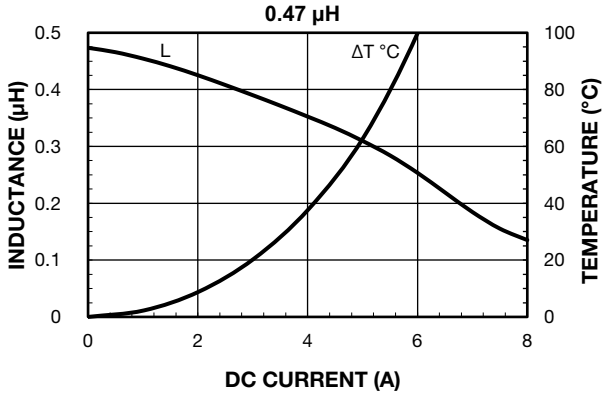
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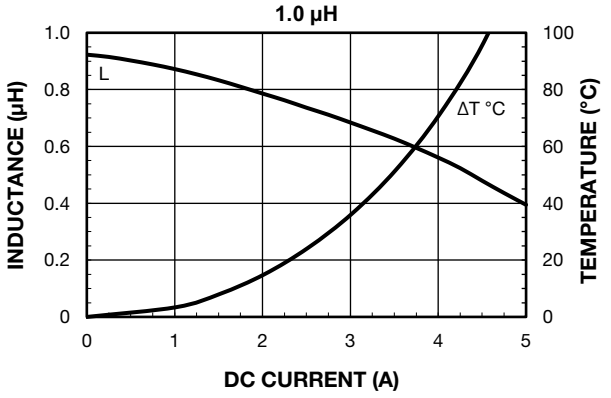
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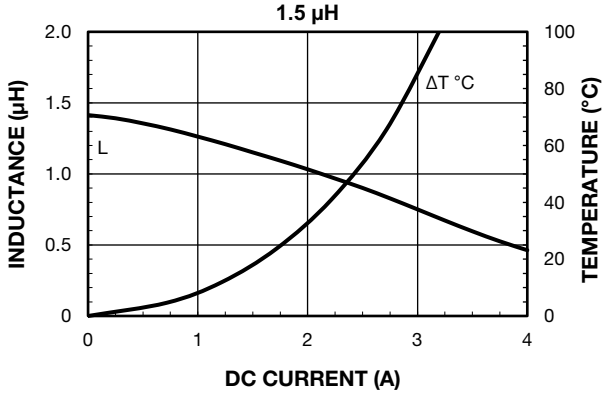
PERFORMANCE GRAPHS

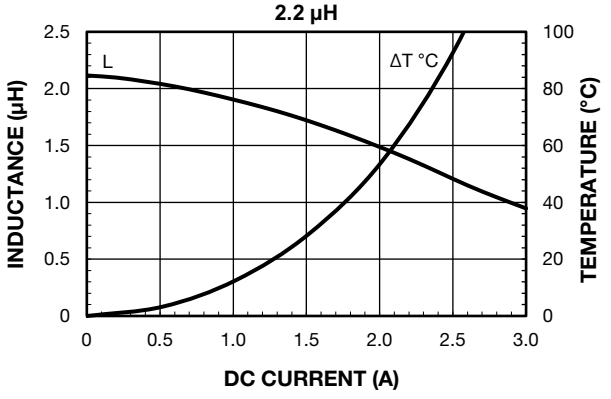






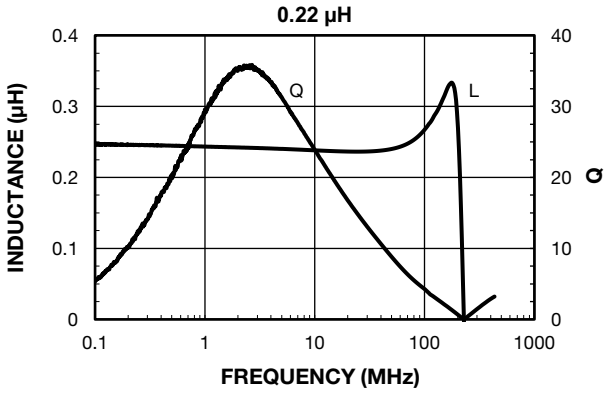


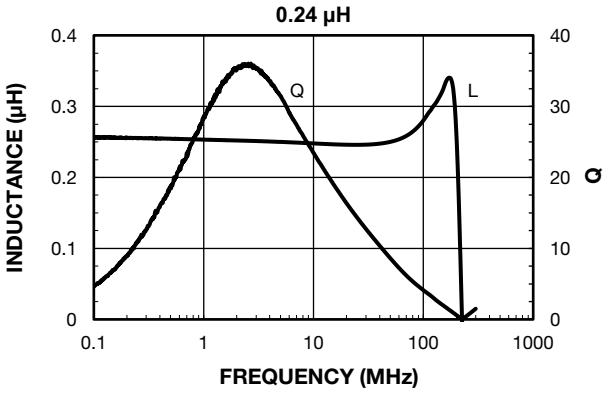


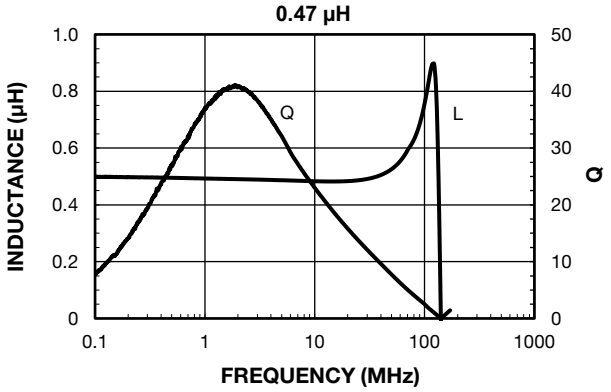


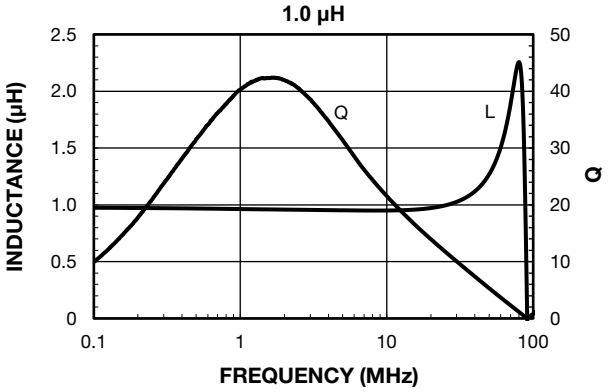
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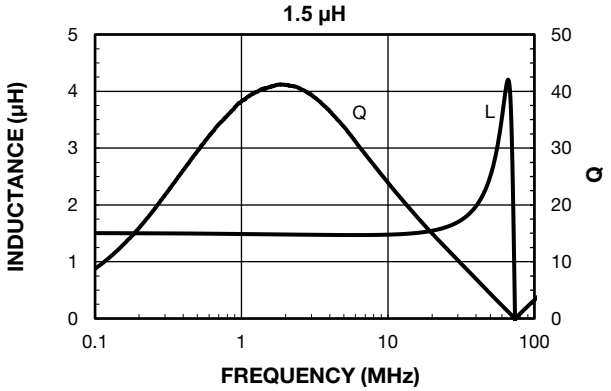
PERFORMANCE GRAPHS: INDUCTANCE AND Q VS. FREQUENCY

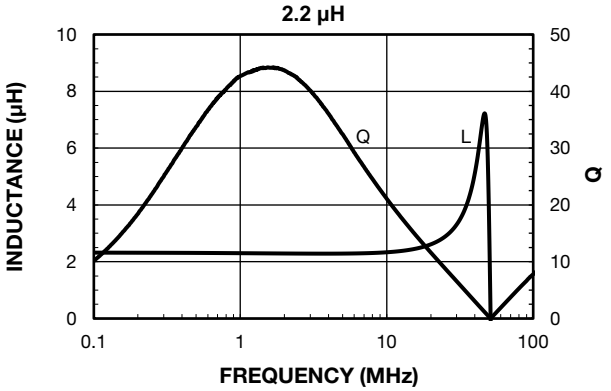












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