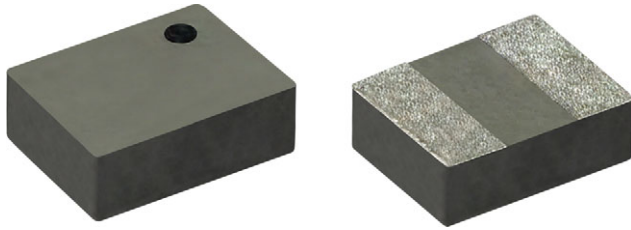


## Ultra Small Footprint, High Current Inductors



### 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](http://www.vishay.com/doc?99912)



### LINKS TO ADDITIONAL RESOURCES


[Product Page](#)

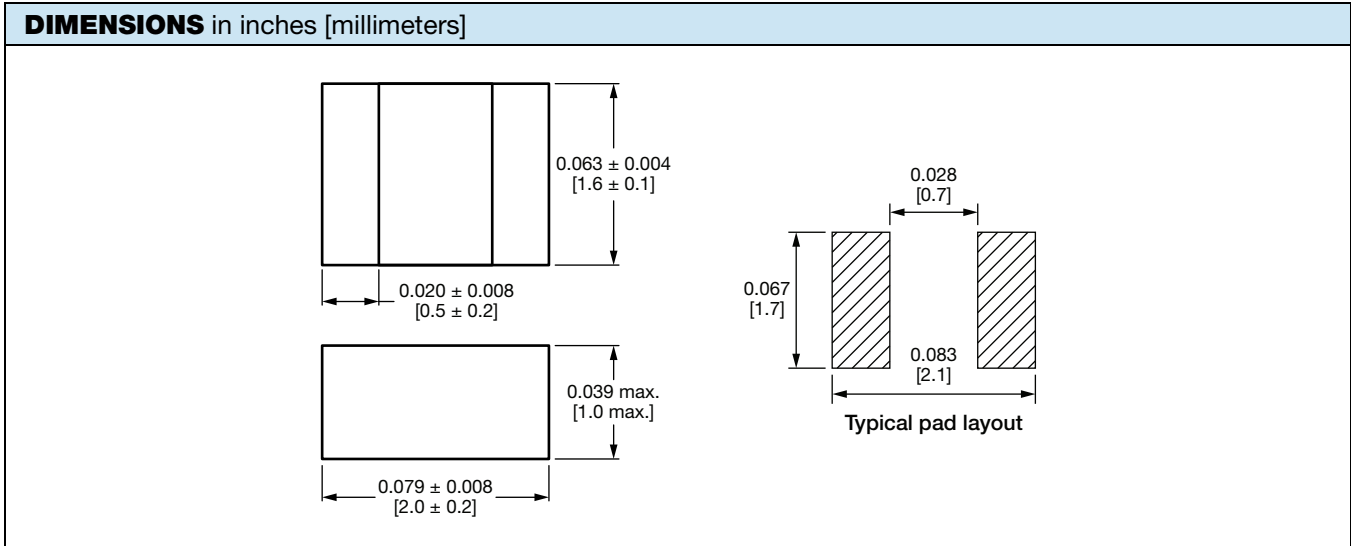
### APPLICATIONS

- 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 <sub>0</sub> 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) <sup>(3)</sup>	SATURATION CURRENT DC TYP. (A) <sup>(4)</sup>
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<sub>0</sub> 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

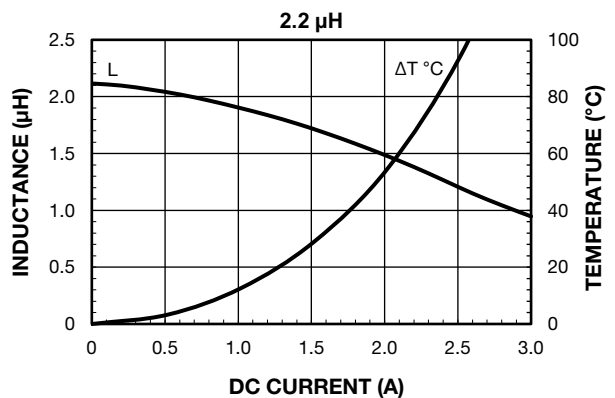
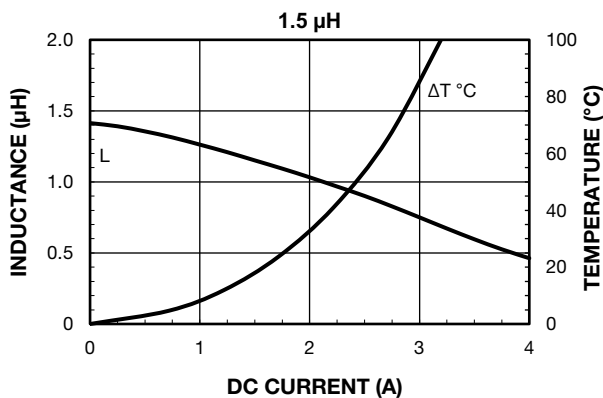
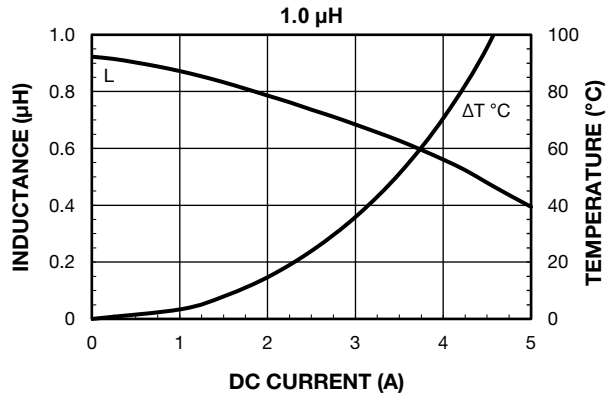
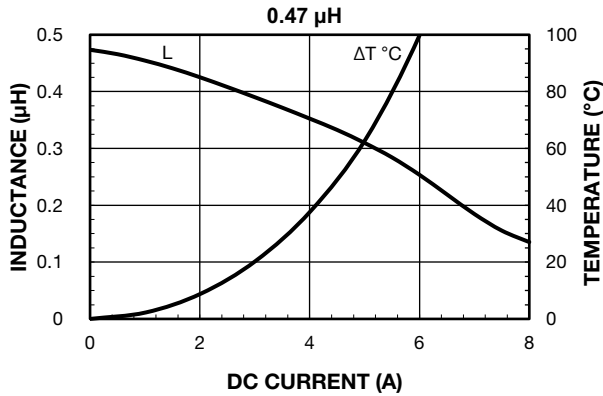
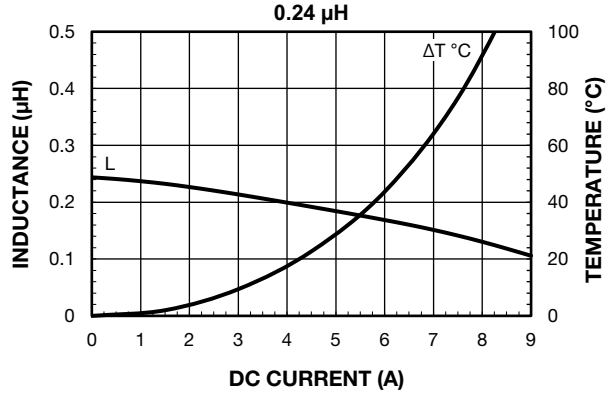
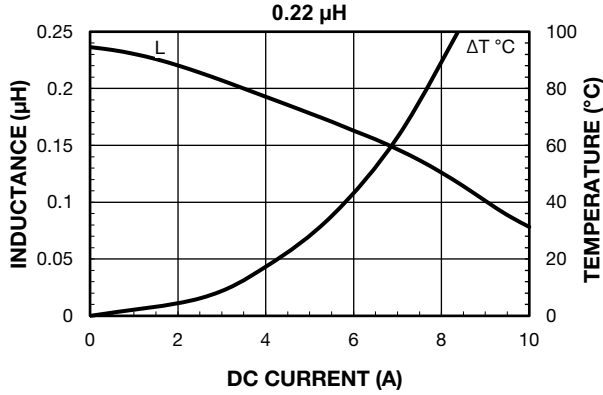


<b>DESCRIPTION</b>					
<b>IHHP-0806AZ-01</b>	<b>1.0 μH</b>	<b>± 20 %</b>	<b>ER</b>	<b>e3</b>	
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD	

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

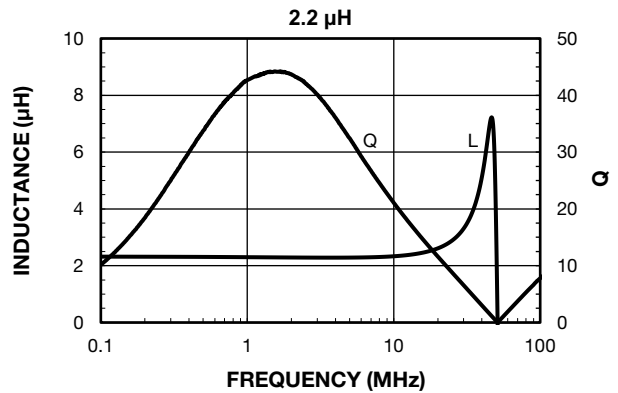
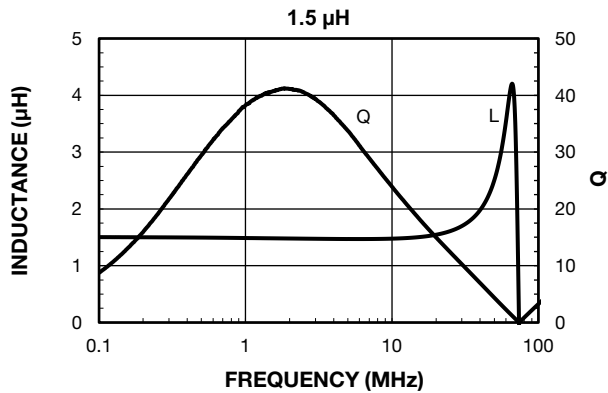
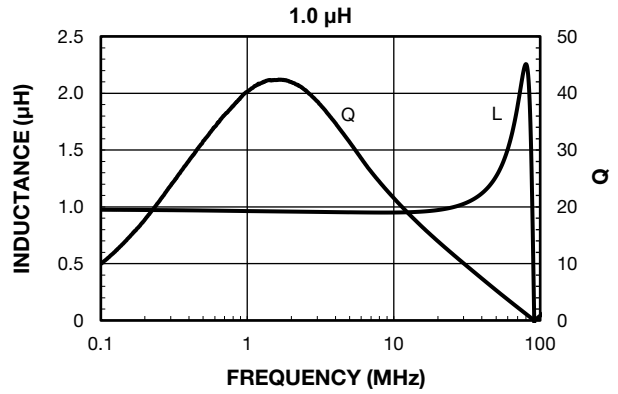
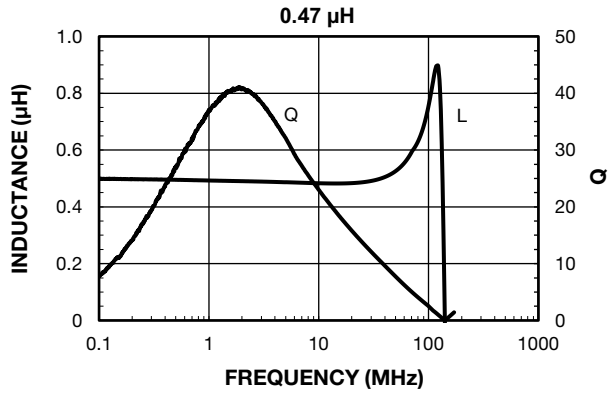
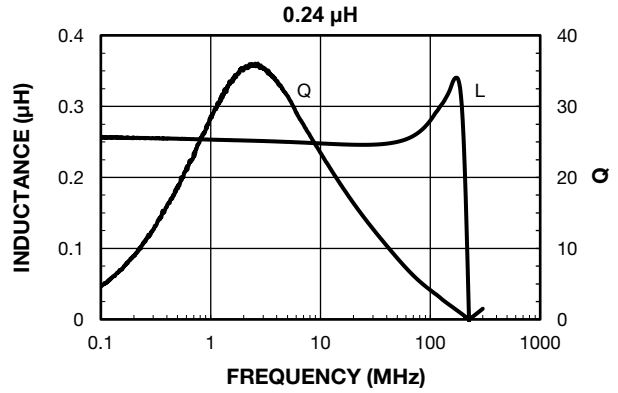
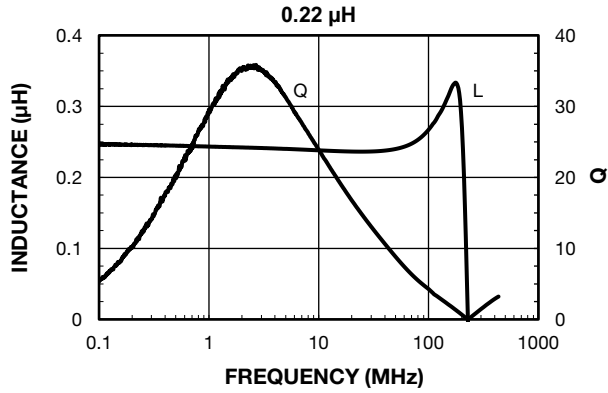


PERFORMANCE GRAPHS





PERFORMANCE GRAPHS: INDUCTANCE AND Q VS. FREQUENCY





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