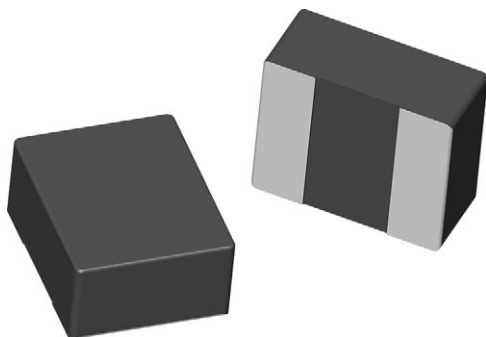


## Commercial Power Inductor, Low DCR



### FEATURES

- 2.5 mm x 2.0 mm x 1.2 mm SMD package
- Handles high transient current spikes without saturation
- Magnetically shielded composite construction
- Bottom plated terminals allow for a smaller pad layout for compact board spacing
- Packaging information: [SMD packaging](#)
- Material categorization: for definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)



**RoHS**  
COMPLIANT  
HALOGEN  
**FREE**  
**GREEN**  
[5-2008]

### LINKS TO ADDITIONAL RESOURCES



Product Page

### APPLICATIONS

- SSD modules
- DC/DC converter for CPU
- Noise suppression and filtering
- Data networking and storage systems

### STANDARD ELECTRICAL SPECIFICATIONS

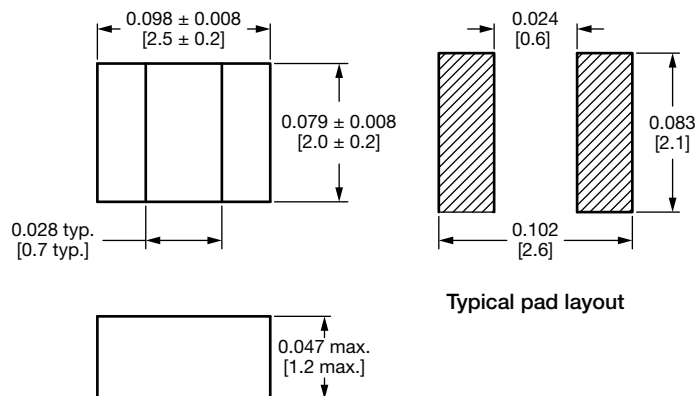
PART NUMBER	L <sub>0</sub> INDUCTANCE ± 20 % AT 0 A (μH)	DCR TYP. 25 °C (mΩ)	DCR MAX. 25 °C (mΩ)	HEAT RATING CURRENT DC TYP. (A) <sup>(1)</sup>	SATURATION CURRENT DC TYP. (A)	
					20 % DROP <sup>(2)</sup>	30 % DROP <sup>(3)</sup>
IHLL1008ABEZR33M1Z	0.33	14.0	19.0	6.0	7.3	8.5
IHLL1008ABEZR47M1Z	0.47	17.0	21.0	6.1	6.0	7.3
IHLL1008ABEZR68M1Z	0.68	25.0	30.0	5.5	5.6	6.3
IHLL1008ABEZ1R0M1Z	1.0	35.0	42.0	4.2	3.7	5.0
IHLL1008ABEZ1R5M1Z	1.5	53.0	61.0	3.6	3.0	3.6
IHLL1008ABEZ2R2M1Z	2.2	68.0	82.0	3.0	3.0	3.3
IHLL1008ABEZ3R3M1Z	3.3	110.0	135.0	2.1	2.0	2.8
IHLL1008ABEZ4R7M1Z	4.7	160.0	190.0	1.8	1.8	2.4

#### Notes

- All test data is referenced to 25 °C ambient
  - Test condition: 1 MHz, 1 V
  - Operating temperature range -55 °C to +125 °C
  - The part temperature (ambient + temp. rise) should not exceed 155 °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
- (1) DC current (A) that will cause an approximate ΔT of 40 °C  
(2) DC current (A) that will cause L<sub>0</sub> to drop approximately 20 %  
(3) DC current (A) that will cause L<sub>0</sub> to drop approximately 30 %

**PATENT(S):** [www.vishay.com/patents](http://www.vishay.com/patents)

This Vishay product is protected by one or more United States and international patents.

**DIMENSIONS** in inches [millimeters]


No part marking

**DESCRIPTION**

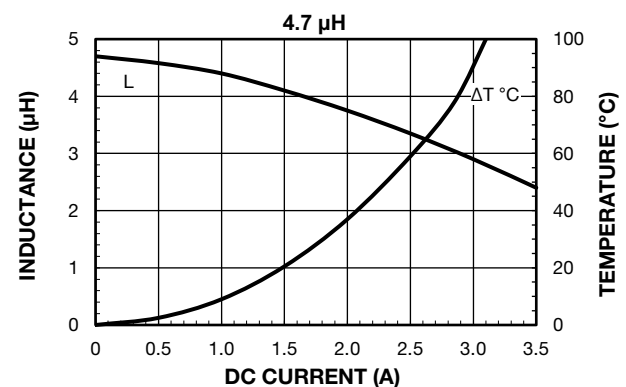
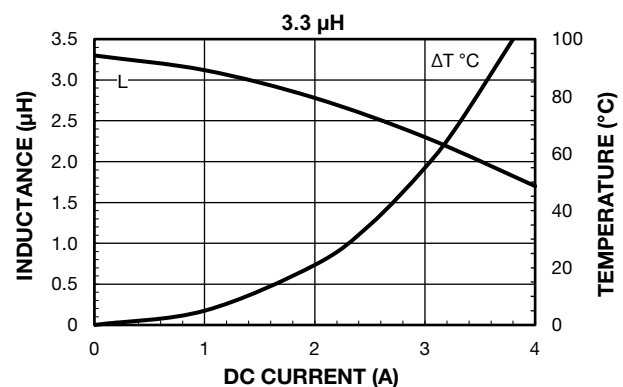
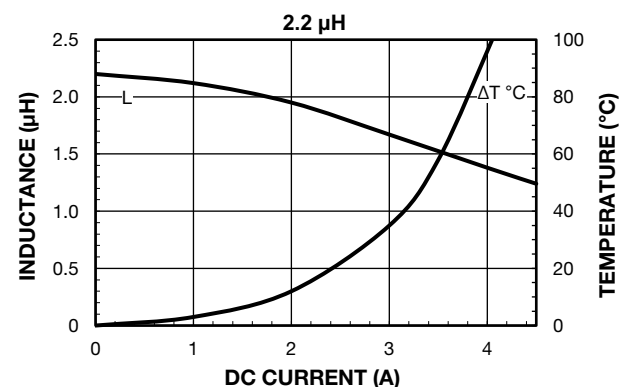
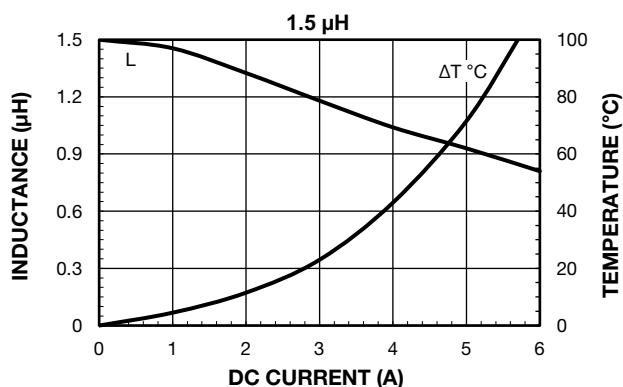
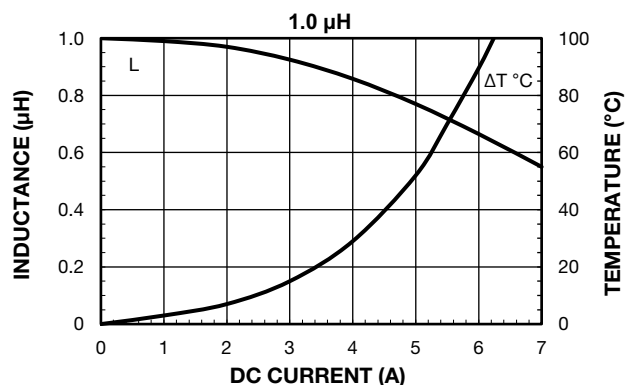
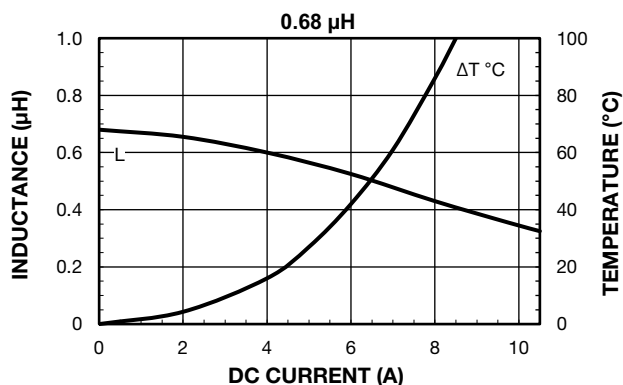
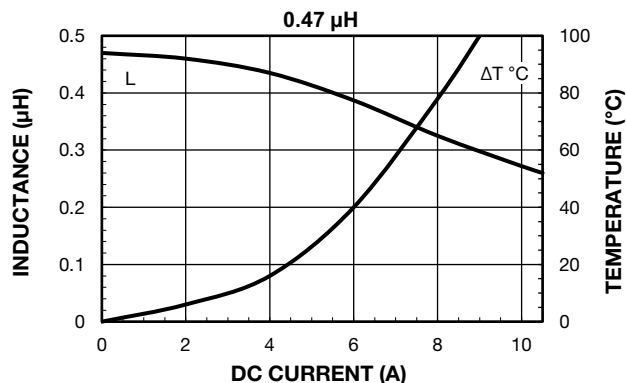
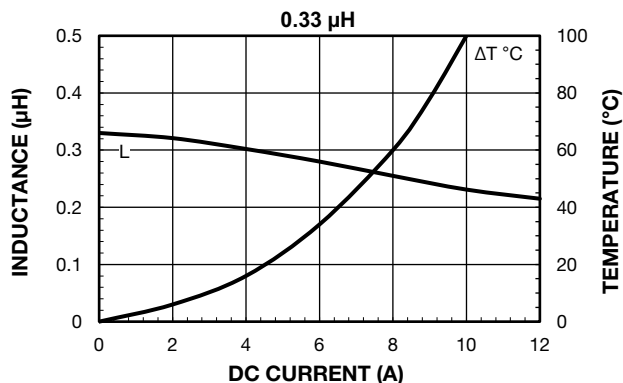
<b>IHLL-1008AB-1Z</b>	<b>2.2 <math>\mu</math>H</b>	<b><math>\pm 20</math> %</b>	<b>EZ</b>	<b>e3</b>
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD

**GLOBAL PART NUMBER**

<b>I H L L</b>	<b>1 0 0 8 A B</b>	<b>E Z</b>	<b>2 R 2</b>	<b>M</b>	<b>1 Z</b>
PRODUCT FAMILY	SIZE	PACKAGE CODE	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	SERIES
		<b>EZ</b> = tape and reel	<b>2R2</b> = 2.2 $\mu$ H	<b>M</b> = $\pm 20$ %	



PERFORMANCE GRAPHS





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