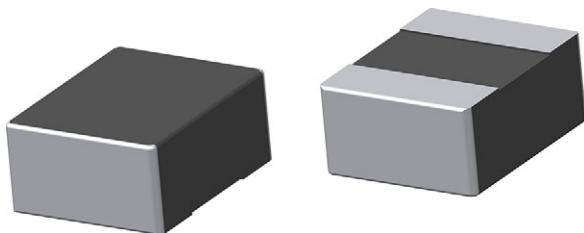




IHLP® Commercial Inductors, High Temperature (165 °C) Series



LINKS TO ADDITIONAL RESOURCES



Product Page

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
- Side and bottom plated terminals for improved shock and vibration performance and solder inspection
- Excellent stability of inductance versus temperature up to 165 °C
- Packaging information: [SMD packaging](#)
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



RoHS
COMPLIANT
HALOGEN
FREE
GREEN
(5-2008)

APPLICATIONS

- PDA / notebook / server applications
- High current POL converters
- Low profile, high current power supplies
- Battery powered devices
- DC/DC converters in distributed power systems

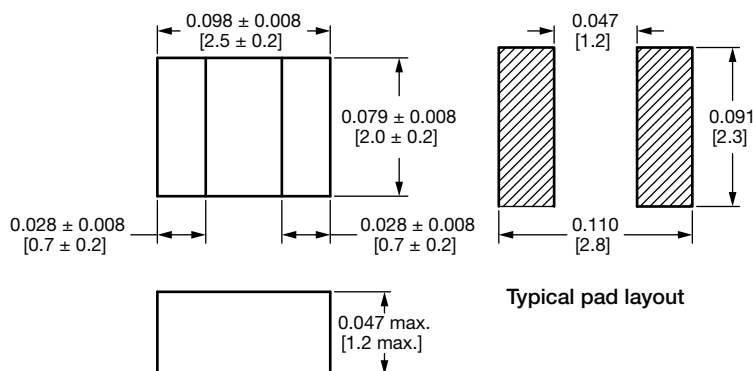
STANDARD ELECTRICAL SPECIFICATIONS

PART NUMBER	L ₀ INDUCTANCE ± 20 % AT 0 A (μH)	DCR TYP. 25 °C (mΩ)	DCR MAX. 25 °C (mΩ)	HEAT RATING CURRENT DC TYP. (A) ⁽¹⁾	SATURATION CURRENT DC TYP. (A)	
					20 % DROP ⁽²⁾	30 % DROP ⁽³⁾
IHLP1008ABEZR15M5Z	0.15	12.0	15.0	6.5	8.5	10.2
IHLP1008ABEZR47M5Z	0.47	21.0	26.0	4.7	5.3	6.5
IHLP1008ABEZ1R0M5Z	1.0	35.0	42.0	3.8	3.9	4.8
IHLP1008ABEZ2R2M5Z	2.2	70.0	84.0	2.6	2.8	3.5

Notes

- All test data is referenced to 25 °C ambient
 - Operating temperature range -55 °C to +165 °C
 - Rated operating voltage (across inductor) = 30 V
 - Test condition: 1 MHz, 1 V
 - The part temperature (ambient + temp. rise) should not exceed the maximum rating under worst case operating conditions. Circuit design, component placement, PCB 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 L₀ to drop approximately 20 %
 (3) DC current (A) that will cause L₀ to drop approximately 30 %

DIMENSIONS in inches [millimeters]



No part marking



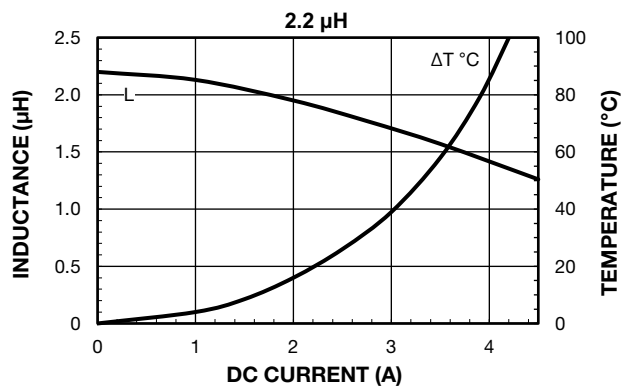
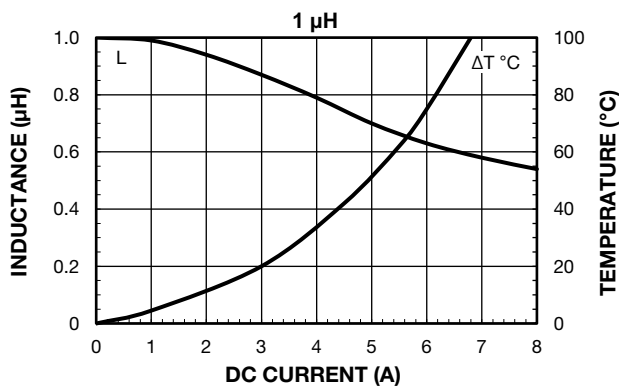
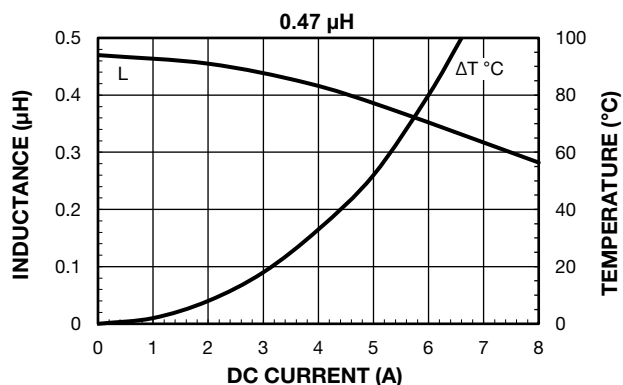
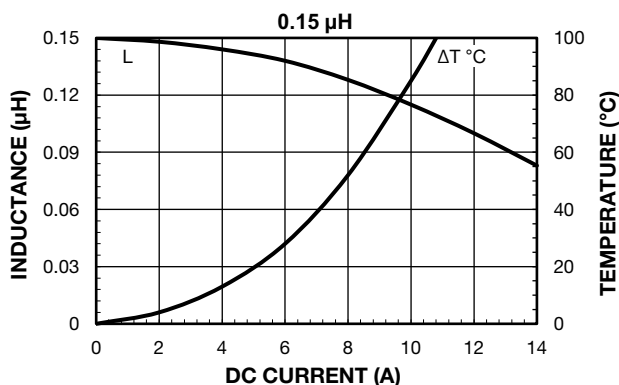
DESCRIPTION

IHLP1008ABEZ-5Z	2.2 μH	$\pm 20\%$	EZ	e3
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER

I H L P	1 0 0 8 A B	E Z	2 R 2	M	5 Z
PRODUCT FAMILY	SIZE	PACKAGE CODE	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	SERIES
EZ = tape and reel 2R2 = 2.2 μ H M = $\pm 20\%$					

PERFORMANCE GRAPHS





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