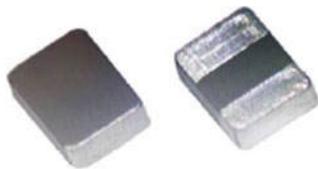


IHLP® Automotive Inductors, High Temperature (165 °C) Series



APPLICATIONS

- LED drivers
- Point-of-load modules
- Noise suppression and filtering
- Data networking and storage systems
- Engine and transmission control units

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
- AEC-Q200 qualified
- Side and bottom plated terminals for improved shock and vibration performance and solder inspection
- IHLP design;
PATENT(S): www.vishay.com/patents
- Packaging information: [SMD packaging](#)
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

AUTOMOTIVE GRADE

RoHS
COMPLIANT

HALOGEN FREE
GREEN
(5-2008)

STANDARD ELECTRICAL SPECIFICATIONS

PART NUMBER	L ₀ INDUCTANCE ± 20 % AT 100 kHz, 0.25 V, 0 A (μ H)	DCR TYP. 25 °C (m Ω)	DCR MAX. 25 °C (m Ω)	HEAT RATING CURRENT DC TYP. (A) ⁽¹⁾	SATURATION CURRENT DC TYP. (A)	
					20 % DROP ⁽²⁾	30 % DROP ⁽³⁾
IHLP1008ABEZR15M5A	0.15	12.0	15.0	6.5	8.5	10.2
IHLP1008ABEZR47M5A	0.47	21.0	26.0	4.7	5.3	6.5
IHLP1008ABEZ1R0M5A	1.0	35.0	42.0	3.8	3.9	4.8
IHLP1008ABEZ2R2M5A	2.2	70.0	84.0	2.6	2.8	3.5

Notes

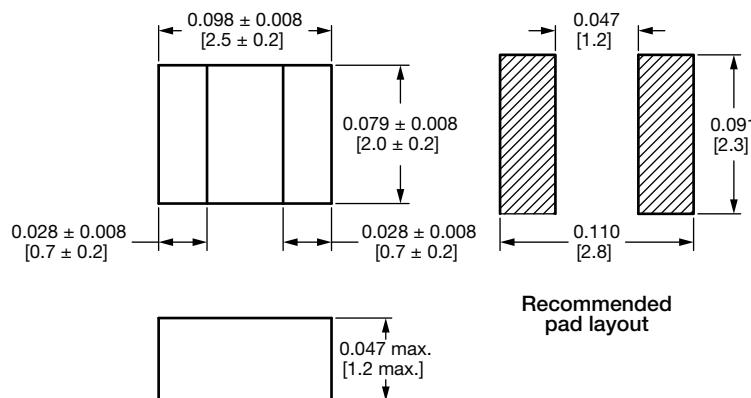
- All test data is referenced to 25 °C ambient
- Operating temperature range -55 °C to +165 °C
- The part temperature (ambient + temp. rise) should not exceed 155 °C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions 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 L₀ to drop approximately 20 %

⁽³⁾ DC current (A) that will cause L₀ to drop approximately 30 %

DIMENSIONS in inches [millimeters]


PATENT(S): www.vishay.com/patents

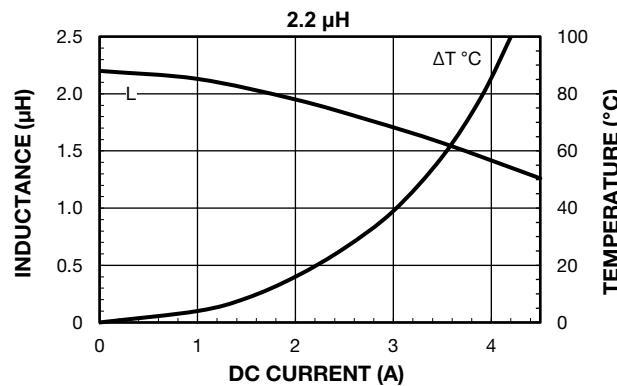
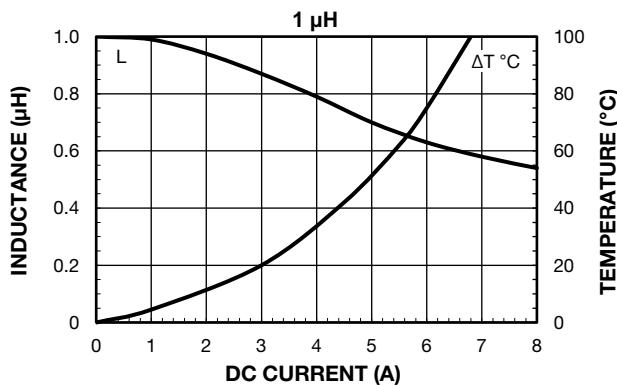
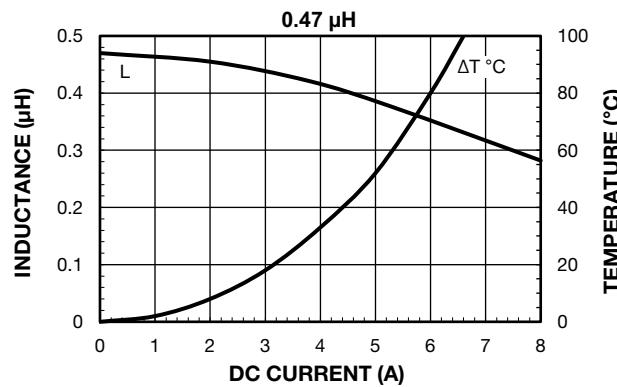
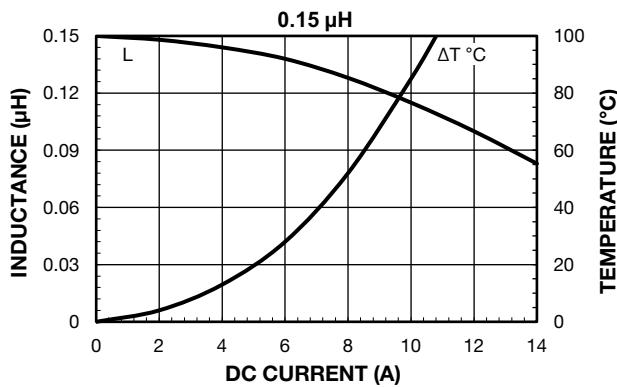
This Vishay product is protected by one or more United States and international patents.

DESCRIPTION

IHLP-1008ABEZ-5A	2.2 μ H	$\pm 20\%$	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	A
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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