



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



FEATURES

- 2.0 mm x 1.6 mm x 1.2 mm SMD package
- Handles high transient current spikes without saturation
- Magnetically shielded 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]

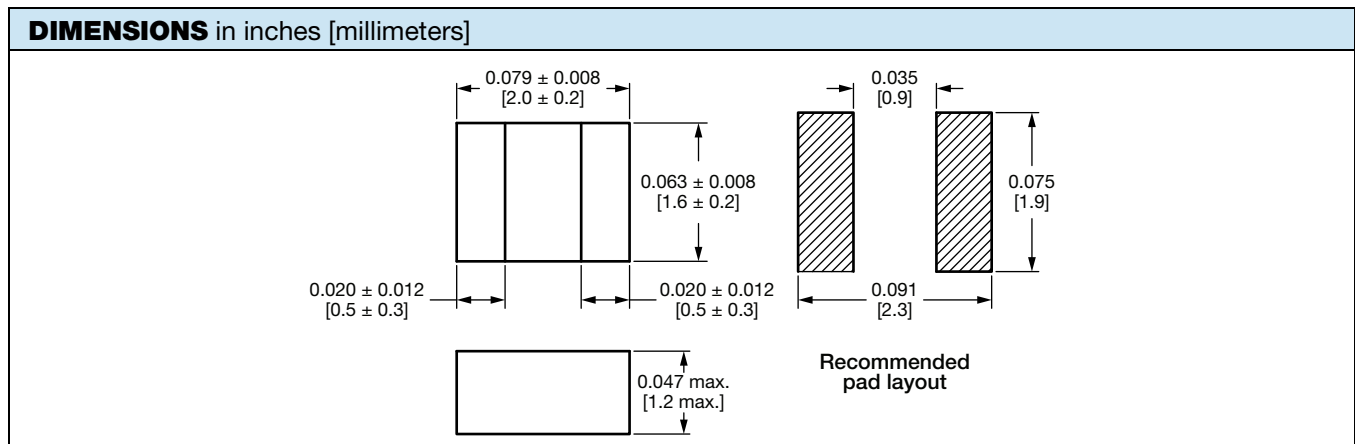
APPLICATIONS

- Automotive point of load modules (ADAS)
- Battery powered devices
- Data networking and storage systems
- DDR5 SDRAM

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) ⁽²⁾	
					20 % DROP	30 % DROP
IHLP0806ABEZR22M5A	0.22	15.0	18.0	5.8	5.1	7.5
IHLP0806ABEZR24M5A	0.24	17.0	20.0	5.1	5.0	6.5
IHLP0806ABEZR33M5A	0.33	19.0	23.0	4.7	4.8	5.9
IHLP0806ABEZR47M5A	0.47	21.0	25.0	4.6	4.5	5.4

Notes

- All test data is referenced to 25 °C ambient
 - Operating temperature range -55 °C to +165 °C
 - Test condition: 1 MHz, 1 V
 - The part temperature (ambient + temp. rise) should not exceed 155 °C 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 % and 30 %



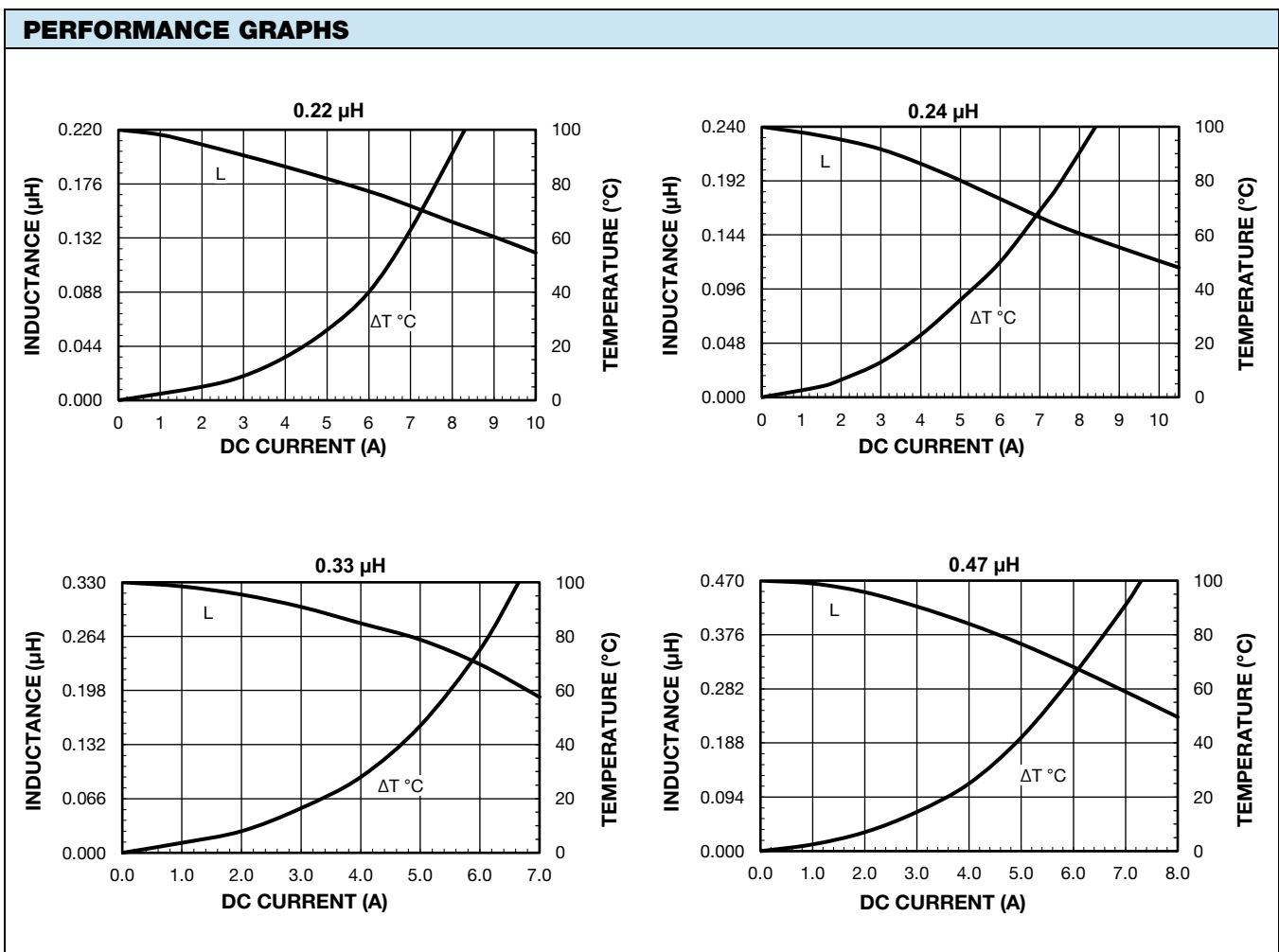
PATENT(S): www.vishay.com/patents

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



DESCRIPTION					
IHLP-0806AB-5A	0.24 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	0 8 0 6 A B	E Z	R 2 4	M	5 A
PRODUCT FAMILY		SIZE	PACKAGE CODE	INDUCTANCE VALUE	INDUCTANCE TOLERANCE
					SERIES
			EZ = tape and reel 3000 pcs/reel	R24 = 0.24 μ H	M = $\pm 20\%$





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