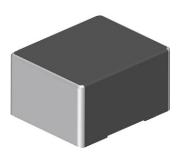


www.vishay.com

Vishay Dale

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



APPLICATIONS

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

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
- Packaging information: <u>SMD packaging</u>
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



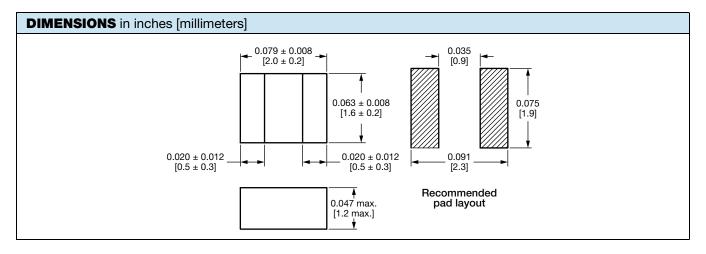


ROHS
COMPLIANT
HALOGEN
FREE
GREEN
(5-2008)

STANDARD ELECTRICAL SPECIFICATIONS								
	L ₀ INDUCTANCE ± 20 % AT 0 A	DCR TYP. 25 °C	DCR MAX. 25 °C	HEAT RATING CURRENT DC TYP.	SATURATION CURRENT DC TYP. (A) ⁽²⁾			
PART NUMBER	(μH)	$(m\Omega)$	$(m\Omega)$	(A) ⁽¹⁾	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		
IHI P0806ABEZB47M5A	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
- Rated operating voltage (across inductor) = 30 V
- 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 $^{\circ}$ C
- (2) DC current (A) that will cause L₀ to drop approximately 20 % and 30 %

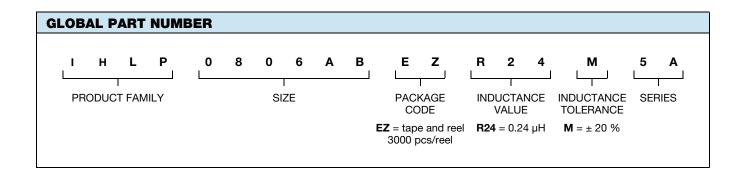


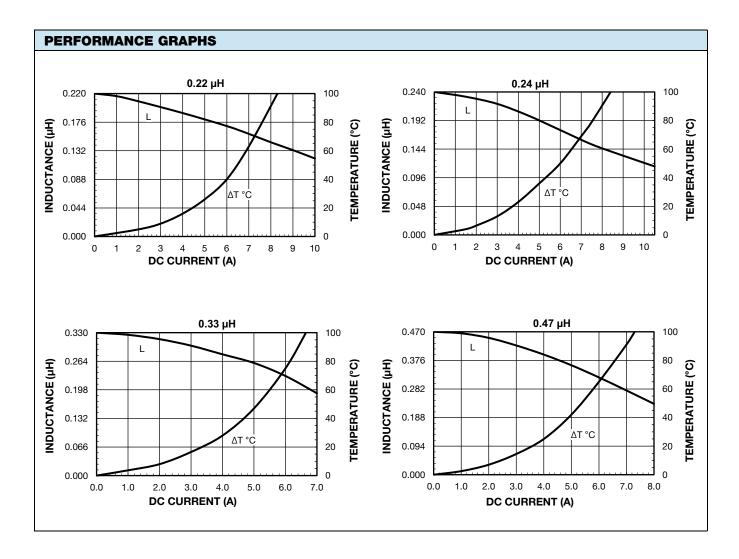
Revision: 06-Aug-2024 1 Document Number: 34618



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DESCRIPTION				
IHLP-0806AB-5A	0.24 μΗ	± 20 %	EZ	e3
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD







Legal Disclaimer Notice

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