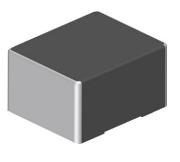


Vishay Dale

# IHLP<sup>®</sup> High Temperature (165 °C), Automotive Power Inductors



### APPLICATIONS

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

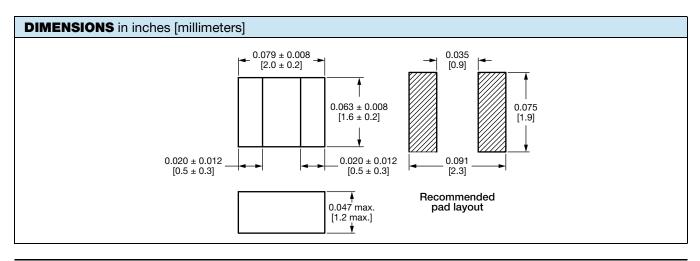
### FEATURES

- 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 <u>www.vishay.com/doc?99912</u>

STANDARD ELECTRICAL SPECIFICATIONS								
	L <sub>0</sub> INDUCTANCE ± 20 % AT 0 A	DCR TYP. 25 °C	DCR MAX. 25 °C	HEAT RATING CURRENT DC TYP.	SATURATION CURRENT DC TYP. (A) <sup>(2)</sup>			
PART NUMBER	(µH)	(mΩ)	<b>(m</b> Ω)	(A) <sup>(1)</sup>	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
- 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
- <sup>(1)</sup> DC current (A) that will cause an approximate  $\Delta T$  of 40 °C
- $^{(2)}\,$  DC current (A) that will cause  $L_0$  to drop approximately 20 % and 30 %



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AUTOMOTIVE GRADE

> RoHS COMPLIANT HALOGEN FREE GREEN (5-2008)

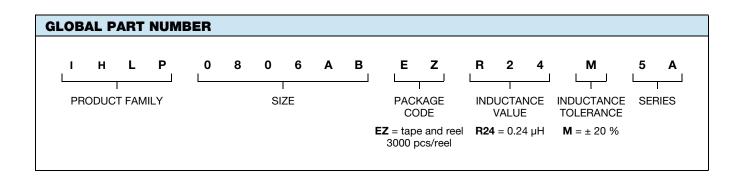
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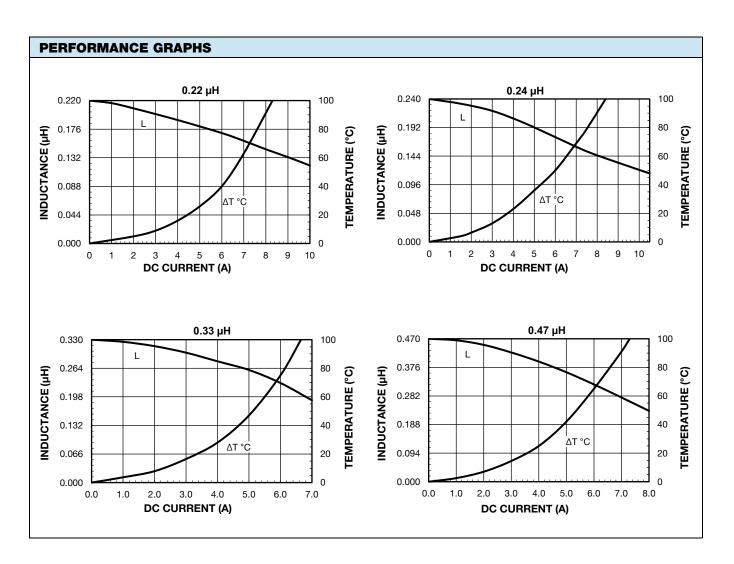
## IHLP-0806AB-5A

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|--|

IHLP-0806AB-5A	0.24 μH	<b>± 20</b> %	EZ	e3			
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC <sup>®</sup> LEAD (Pb)-FREE STANDARD			





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