Vishay Dale





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DESIGN SUPPORT TOOLS click logo to get started

3D	
Models Available	

Design Tools Available

STANDARD ELECTRICAL SPECIFICATIONS								
L ₀ INDUCTANCE ± 20 % AT 100 kHz, 0.25 V, 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⁾	SRF TYP. (MHz)			
0.10	5.0	5.5	12.0	12.0	288			
0.22	9.5	10.5	9.5	9.5	214			
0.47	19	21	6.0	6.0	117			
1.0	43	47	4.2	4.5	71			
2.2	79.4	83.5	2.75	3.00	49			

Notes

- All test data is referenced to 25 °C ambient
- Operating temperature range -55 °C to +125 °C
- The part temperature (ambient + temp. rise) should not exceed 125 °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
- Rated operating voltage (across inductor) = 40 V
- (1) DC current (A) that will cause an approximate ΔT of 40 °C
- $^{(2)}$ DC current (A) that will cause L_0 to drop approximately 20 %

FEATURES

- Shielded construction
- Lowest DCR/µH, in this package size
- Handles high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction

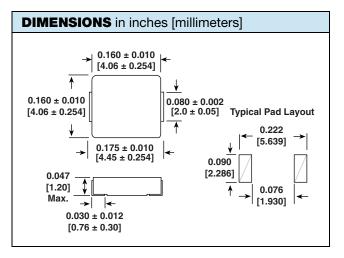


RoHS

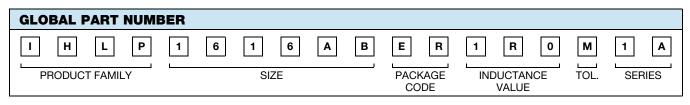
- COMPLIANT HALOGEN Excellent DC/DC energy storage up to 1.0 MHz FREE to 2.0 MHz. Filter inductor applications up to
- SRF (see "Standard Electrical Specifications" table) AEC-Q200 gualified
- IHLP design. PATENT(S): <u>www.vishav.com/patents</u>
- · Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

APPLICATIONS

- · Engine and transmission control units
- · Diesel injection drivers
- DC/DC converters for entertainment/navigation systems
- Noise suppression for motors: windshield wipers / power seats / power mirrors / heating and ventilation blower / **HID** lighting
- LED drivers



DESCRIPTION						
IHLP-1616AB-1A	1.0 µH	± 20 %	ER	e3		
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC [®] LEAD (Pb)-FREE STANDARD		



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

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

Revision: 12-Sep-17

1 For technical questions, contact: magnetics@vishay.com Document Number: 34236

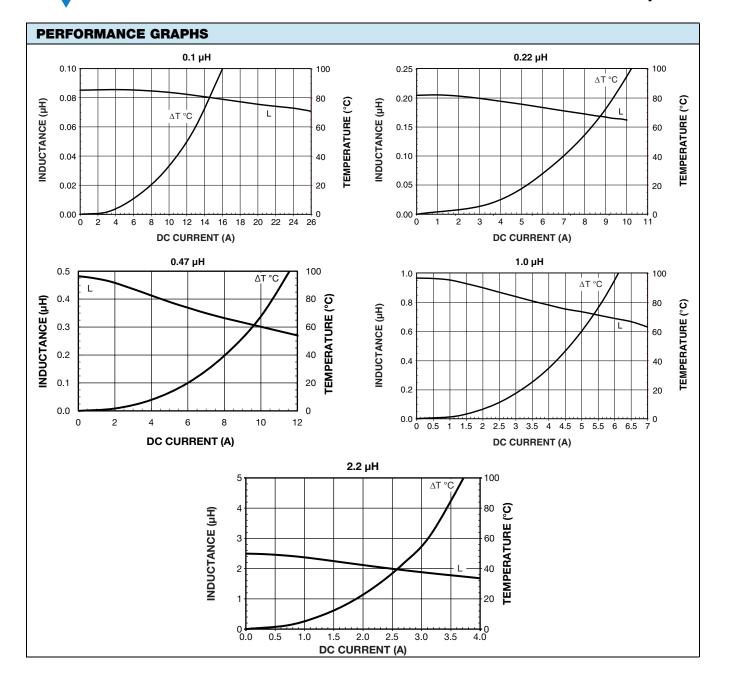
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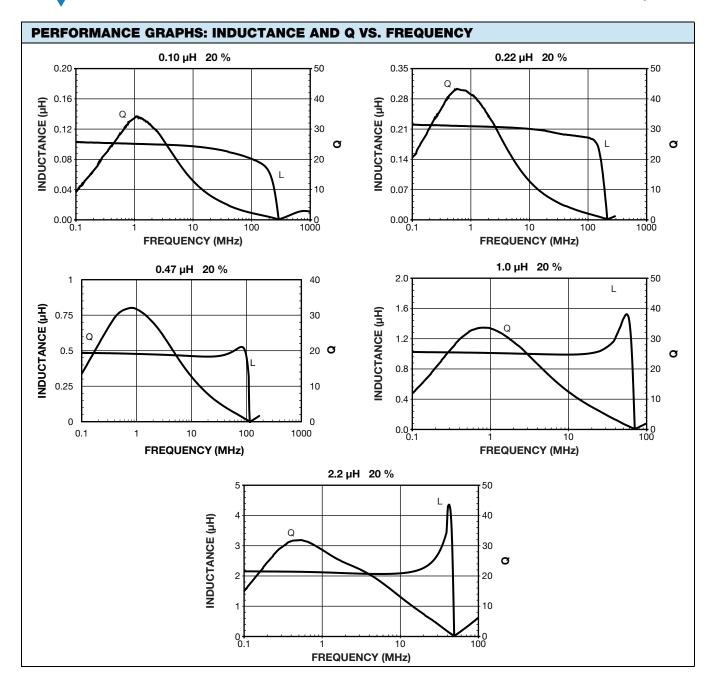
2 For technical questions, contact: <u>magnetics@vishav.com</u>

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IHLP-1616AB-1A



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