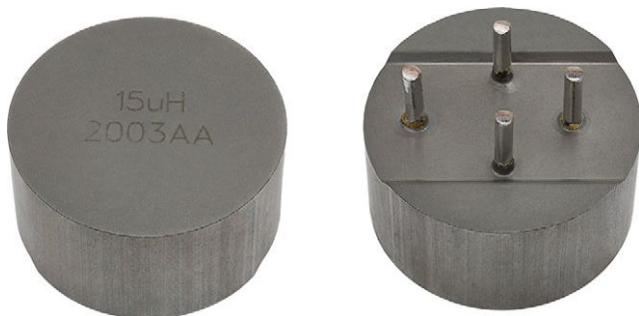


High Current Through-Hole Inductor, High Temperature



FEATURES

- Shielded construction
- High temperature, up to +155 °C
- Excellent DC/DC energy storage up to 2 MHz
- Filter inductor applications up to SRF (see "Standard Electrical Specifications" table)
- Handles high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction
- 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 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)		SRF TYP. (MHz)
				(2)	(3)	
0.47	0.19	0.20	134.8	109.4	156.2	54.1
2.2	0.51	0.54	81.7	78.9	111.4	14.7
4.7	1.13	1.19	60.6	60.0	90.1	9.2

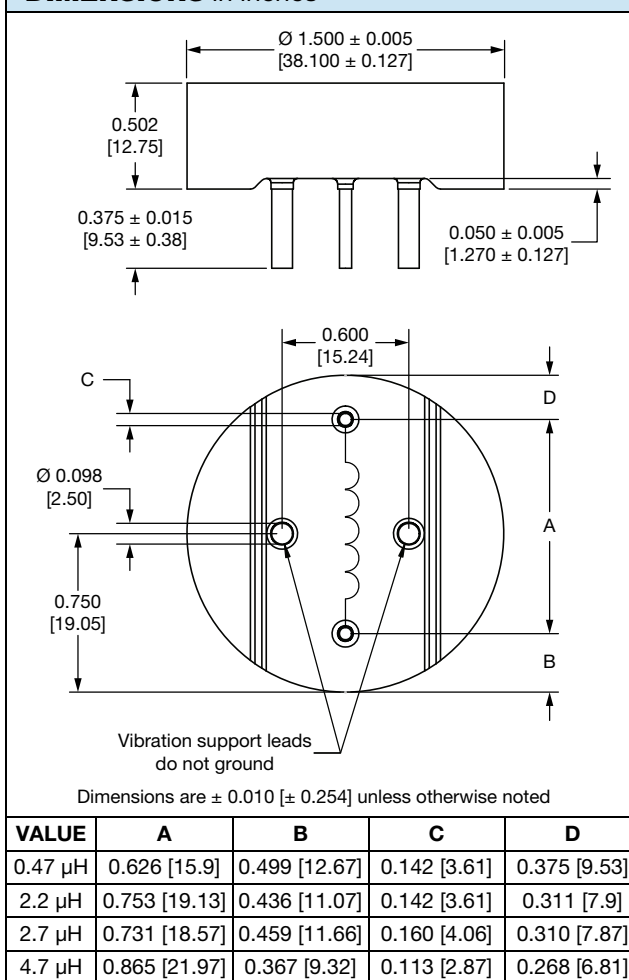
Notes

- All test data is referenced to 25 °C ambient
- Operating temperature range -55 °C to +155 °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 %

APPLICATIONS

- 48 V to 12 V input / output filters
- Diesel injection drivers
- Noise suppression for motors

DIMENSIONS in inches





DESCRIPTION

IHTH-1500MZ-5A

MODEL

4.7 μ H

INDUCTANCE VALUE

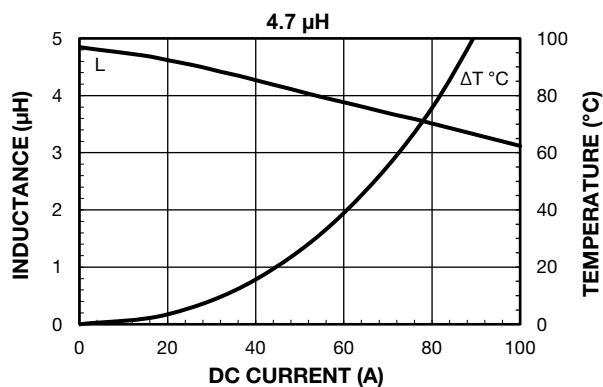
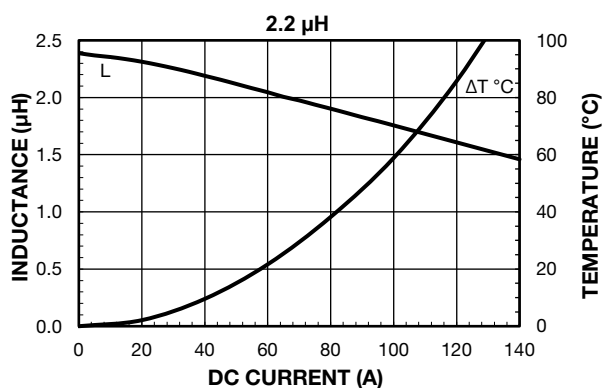
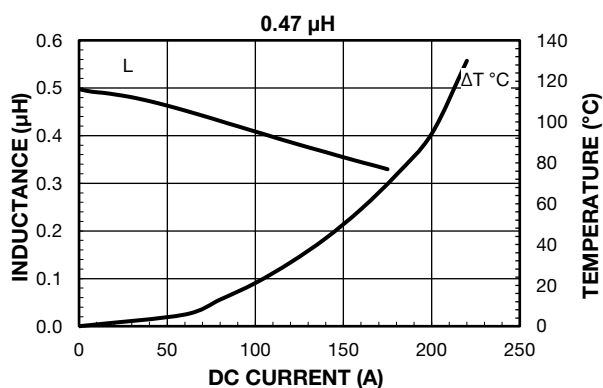
$\pm 20\%$

INDUCTANCE TOLERANCE

GLOBAL PART NUMBER

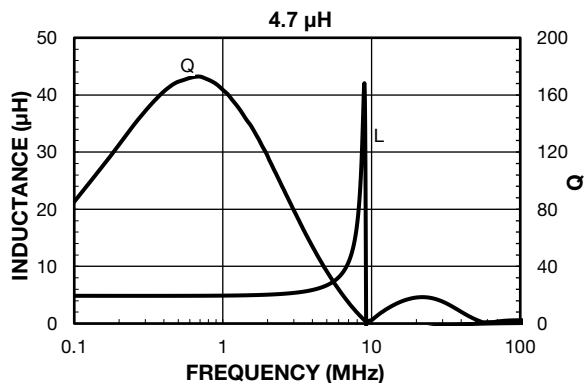
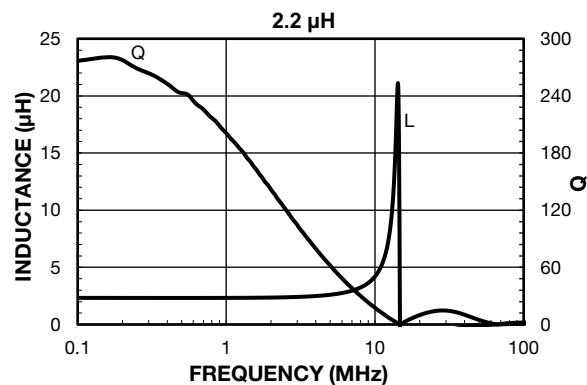
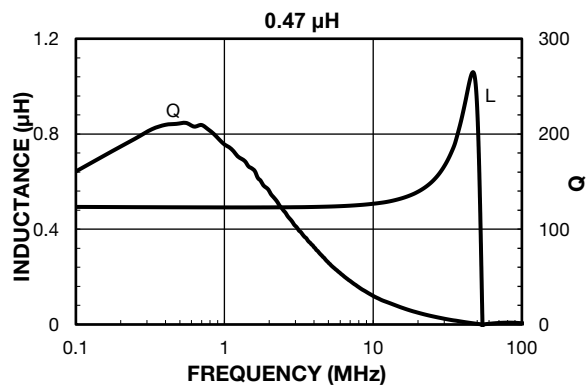
I	H	T	H	1	5	0	0	M	Z	E	B	4	R	7	M	5	A
MODEL				SIZE						PACKAGE CODE		INDUCTANCE VALUE			INDUCT. TOL.	SERIES	

PERFORMANCE GRAPHS





PERFORMANCE GRAPHS: INDUCTANCE AND Q VS. FREQUENCY





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