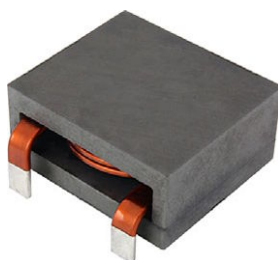


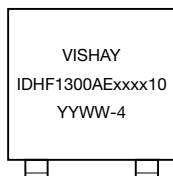
Low Profile, Through-Hole, High Current Inductors, Edge-Wound Series



LINKS TO ADDITIONAL RESOURCES



MARKINGS



STANDARD ELECTRICAL SPECIFICATIONS

L_0 INDUCTANCE $\pm 10\%$ AT 100 kHz, 0.25 V, 0 A (μH)	DCR MAX. 25 °C (m Ω)	HEAT RATING CURRENT DC TYP. (1) (A)	SATURATION CURRENT DC TYP. AT 100 °C (2) (A)	SRF TYP. (MHz)	HIPOT CORE TO WIRE, 500 V _{DC} , 2 s (mA)
1.0	0.79	72	230	39	< 2
2.2	1.11	59	148	23	< 2
3.3	1.11	59	112	18	< 2
4.7	1.11	59	82	16	< 2
5.0	1.11	59	78	15	< 2
5.6	1.11	59	63	14	< 2
6.8	1.11	59	52	12	< 2
8.2	1.11	59	43	10	< 2
10	1.11	59	35	9	< 2

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
- (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

- Low loss ferrite core for high performance designs with minimal ac power losses
- Low DCR losses that provides high rated current performance
- Low profile package - better for mechanical shock and vibration
- Hot dipped Sn plating provides low risk of whisker growth
- Custom options are available
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

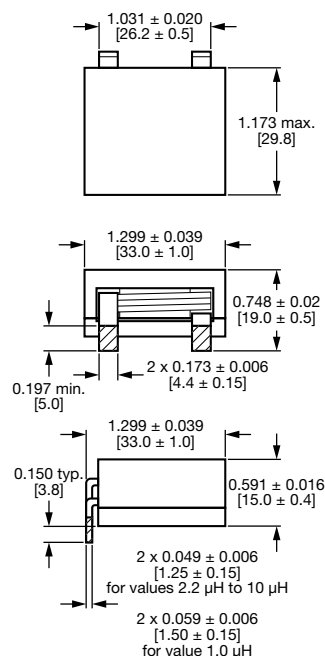


RoHS
COMPLIANT
HALOGEN
FREE
GREEN
(5-2008)

APPLICATIONS

- High current and high temperature applications
- DC/DC converters
- Motor noise suppression
- Commercial

DIMENSIONS in inches [millimeters]



DESCRIPTION

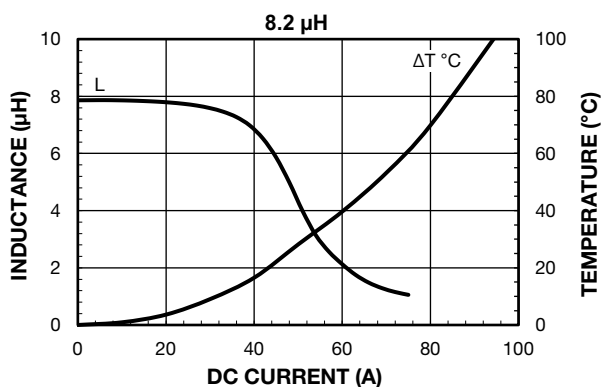
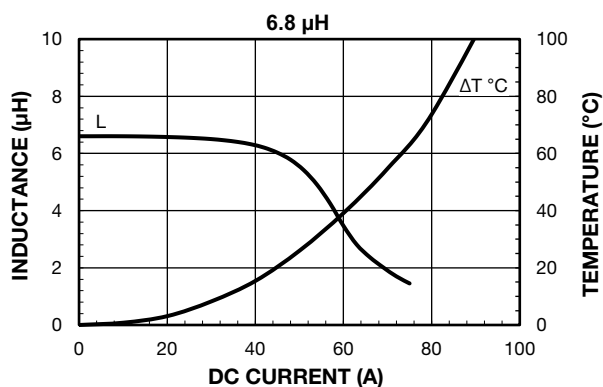
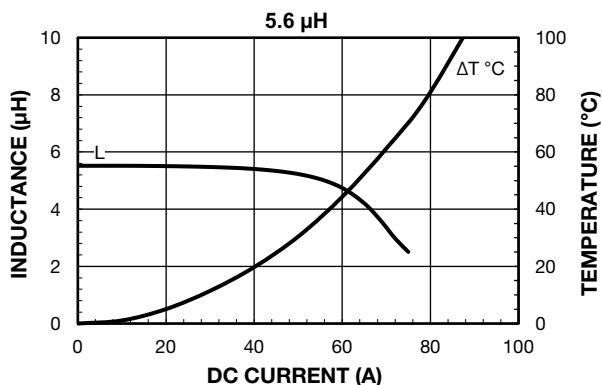
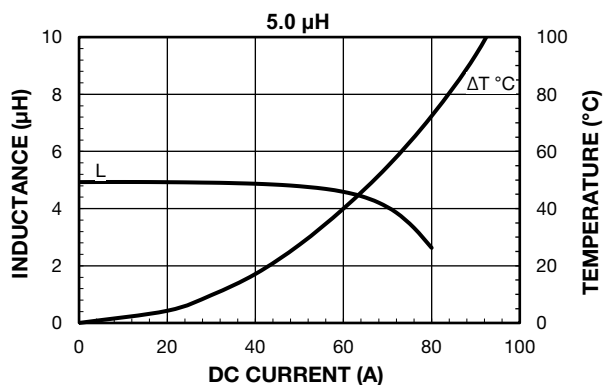
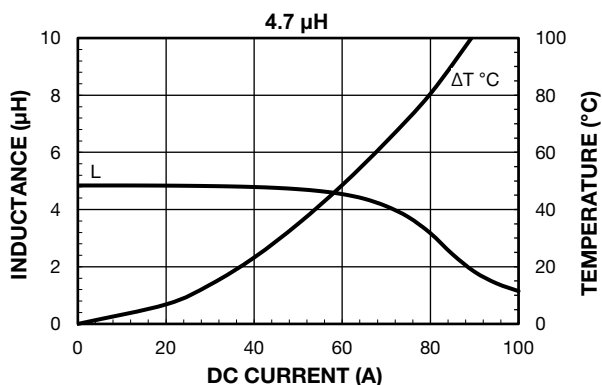
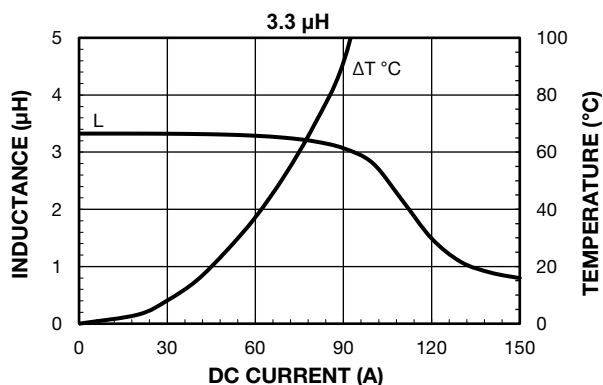
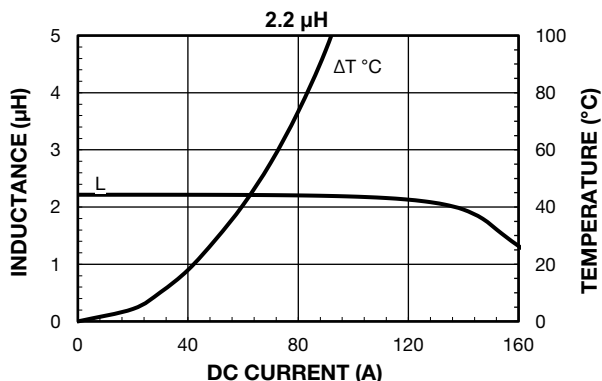
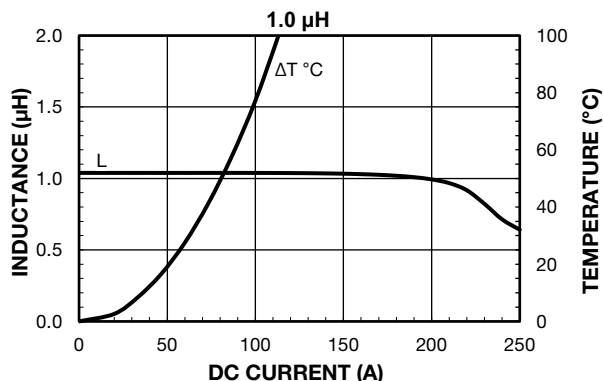
IHDF-1300AE-10	4.7 μH	$\pm 10\%$	EH	e3
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD

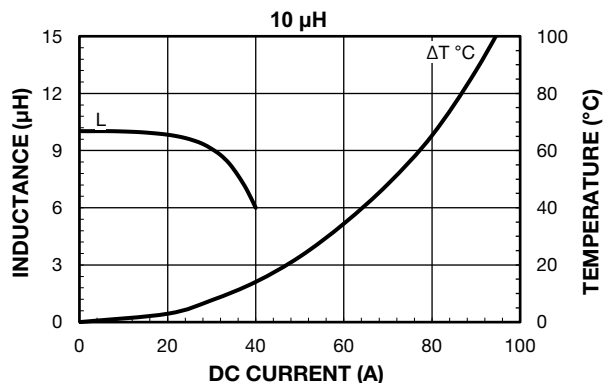
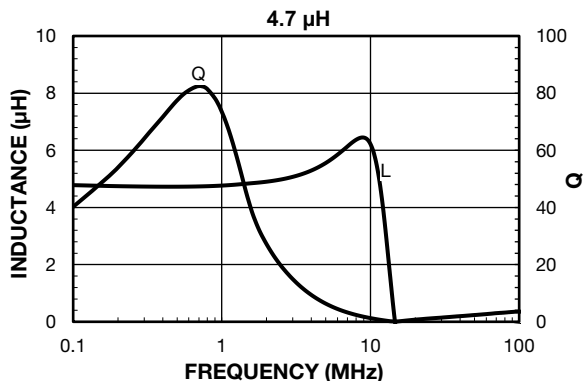
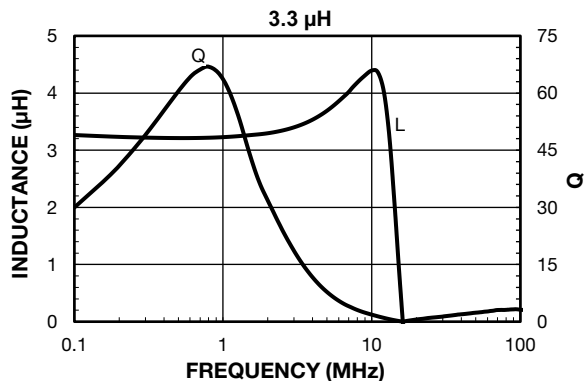
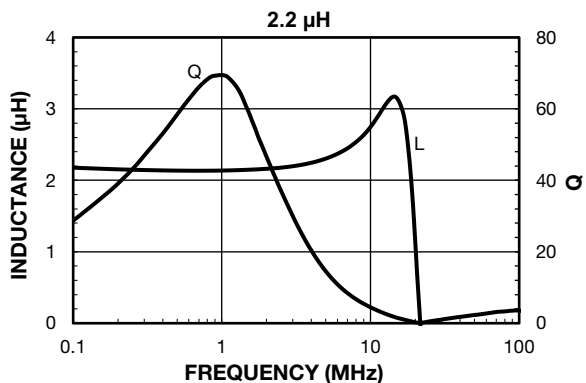
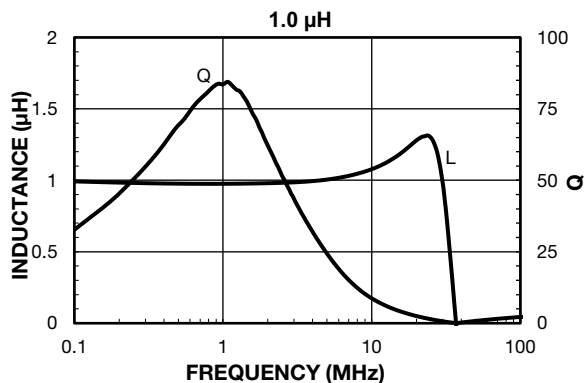
GLOBAL PART NUMBER

I	H	D	F	1	3	0	0	A	E	E	H	4	R	7	K	1	0
MODEL									SIZE		LEAD (Pb)- FREE	STYLE H: horizontal	INDUCTANCE VALUE		TOL.	SERIES	



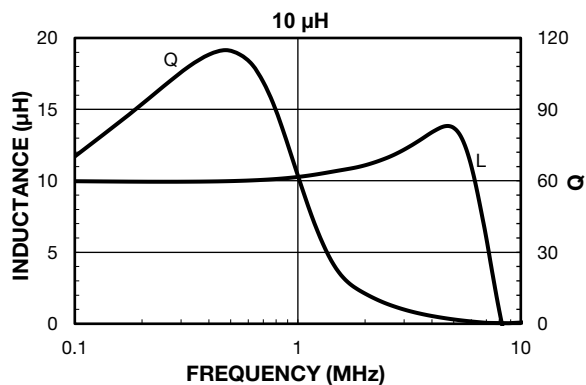
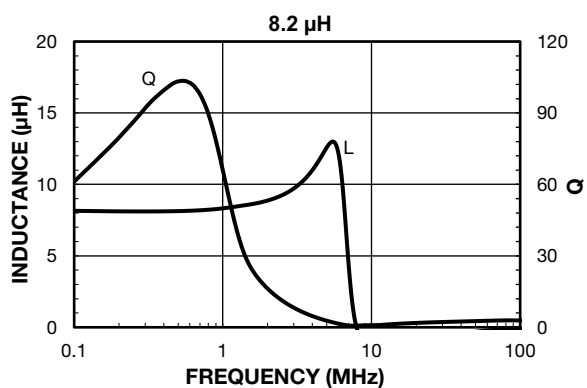
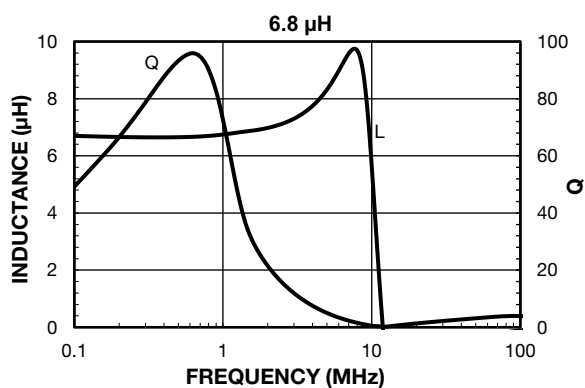
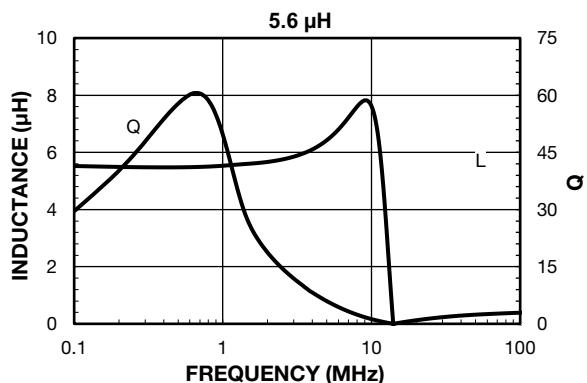
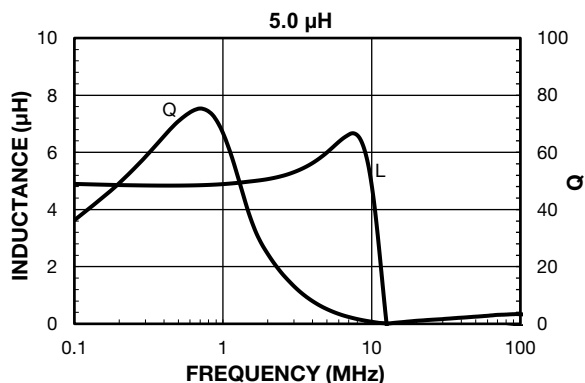
PERFORMANCE GRAPHS



PERFORMANCE GRAPHS

PERFORMANCE GRAPHS: INDUCTANCE AND Q VS. FREQUENCY




PERFORMANCE GRAPHS: INDUCTANCE AND Q VS. FREQUENCY





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