

IHLP® Commercial Inductors, High Saturation Series



DESIGN SUPPORT TOOLS AVAILABLE



STANDARD ELECTRICAL SPECIFICATIONS					
INDUCTANCE L_0 $\pm 20\%$ AT 100 kHz, 0.25 V, 0 A (μH)	DCR TYP. 25 °C (m Ω)	DCR MAX. 25 °C (m Ω)	HEAT RATING CURRENT DC TYP. (A) ⁽¹⁾	SATURATION CURRENT DC TYP. (A) ⁽²⁾	SRF TYP. (MHz)
0.22	1.57	1.68	30.7	45.0	126
0.33	2.00	2.14	29.5	36.0	97
0.47	2.45	2.62	25.0	31.5	74
0.68	3.43	3.67	21.0	24.5	59
0.82	4.13	4.42	19.0	24.2	53
1.0	5.40	5.78	18.0	24.0	42
2.2	12.80	13.70	10.5	23.0	33
3.3	16.50	17.70	9.2	20.0	25
4.7	29.90	32.00	7.25	15.0	20
5.6	33.20	35.50	6.8	16.7	18
6.8	44.60	47.70	5.7	15.2	15
8.2	47.50	50.80	5.5	10.0	17
10.0	56.00	59.90	5.2	9.0	15

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) = 75 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
- Excellent DC/DC energy storage up to 5 MHz. Filter inductor applications up to SRF (see "Standard Electrical Specifications" table)
- Operating temperature up to 125 °C
- Lowest DCR/ μH , in this package size
- Handles high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction
- IHLP design. PATENT(S): www.vishay.com/patents
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

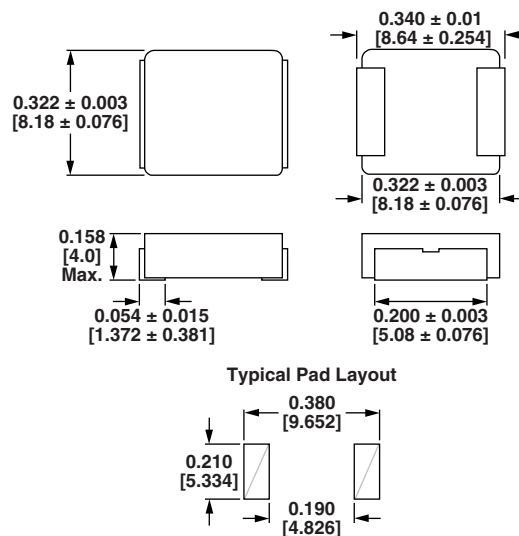


RoHS
COMPLIANT
HALOGEN
FREE
GREEN
(5-2008)

APPLICATIONS

- PDA / notebook / desktop / server applications
- High current POL converters
- Low profile, high current power supplies
- Battery powered device
- DC/DC converters in distributed power systems
- DC/DC converter for Field Programmable Gate Array (FPGA)

DIMENSIONS in inches [millimeters]



DESCRIPTION

IHLP-3232DZ-01	4.7 μH	$\pm 20\%$	ER	e3
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER

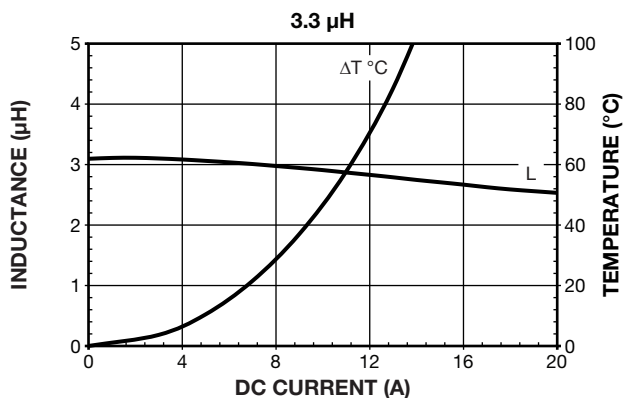
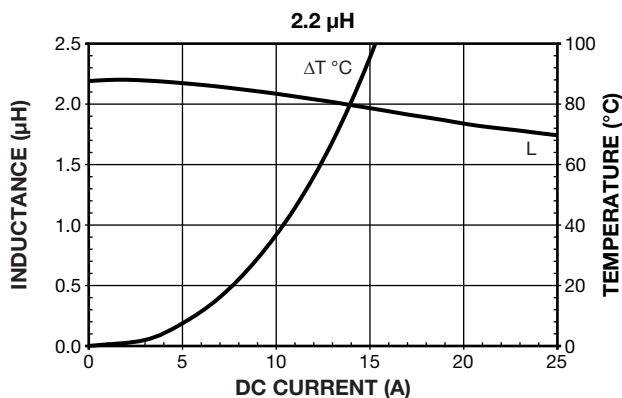
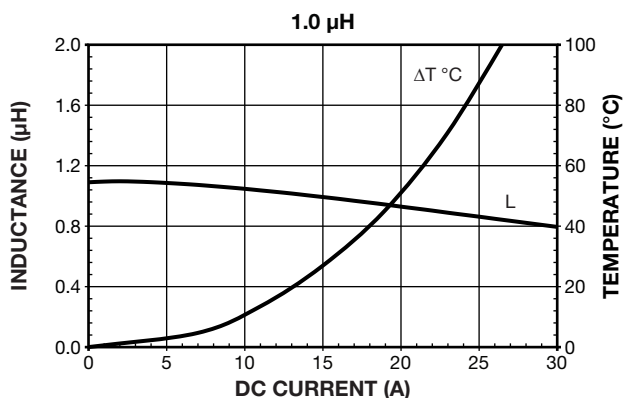
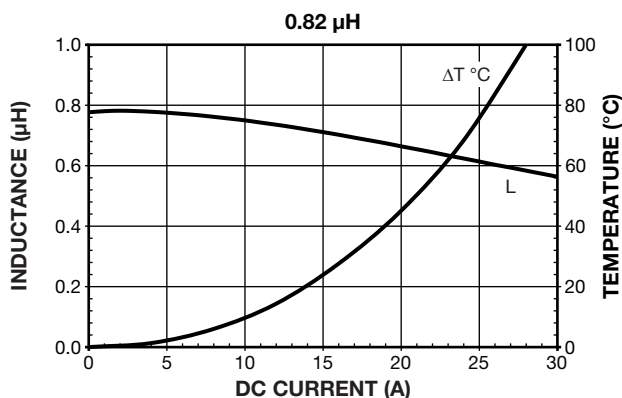
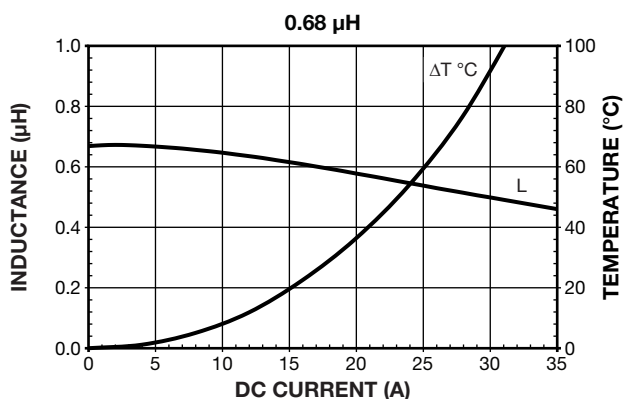
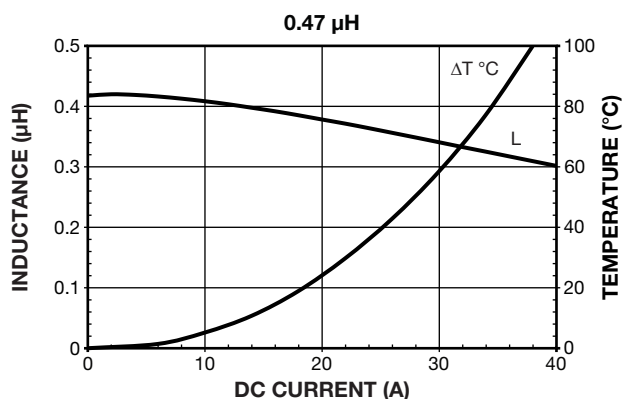
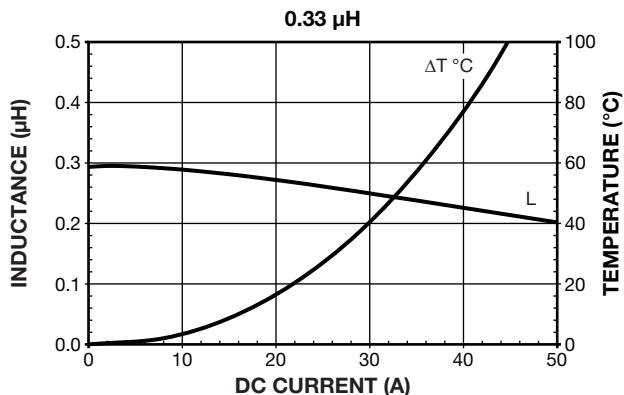
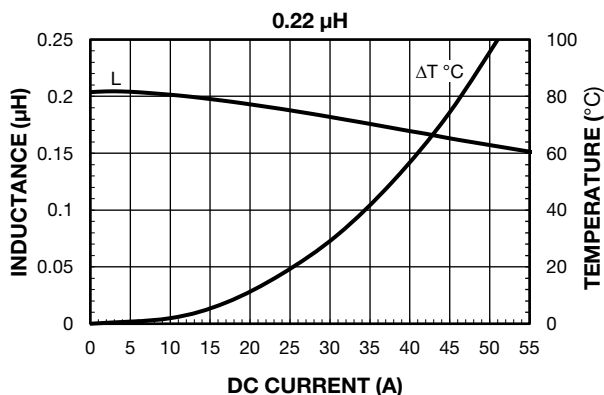
I	H	L	P	3	2	3	2	D	Z	E	R	4	R	7	M	0	1
PRODUCT FAMILY				SIZE						PACKAGE CODE		INDUCTANCE VALUE		TOL.	SERIES		

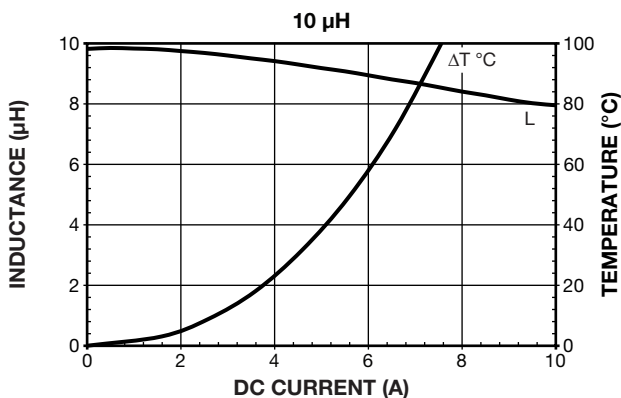
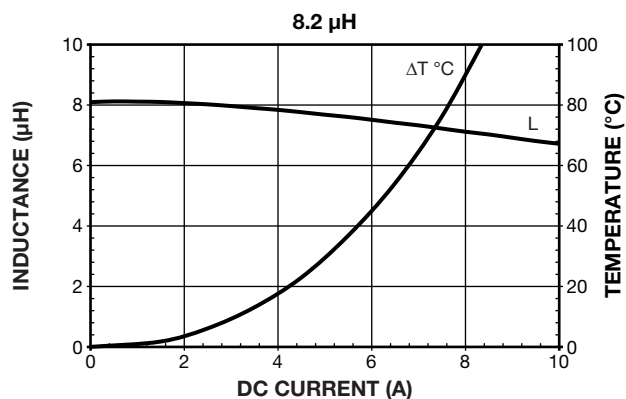
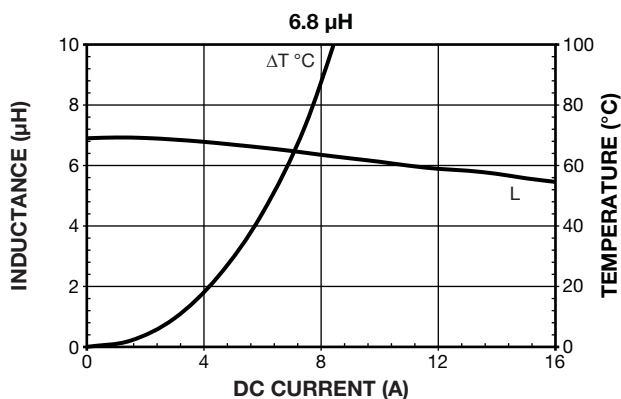
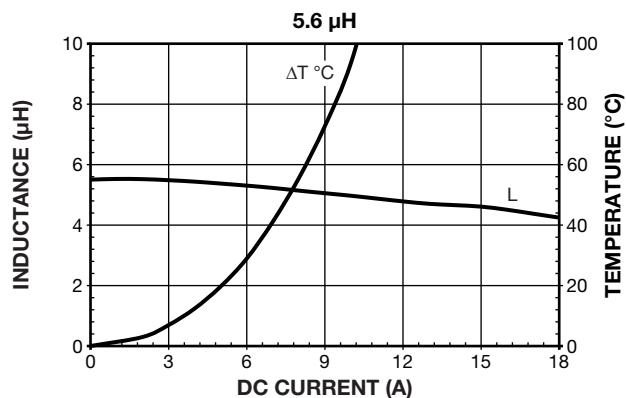
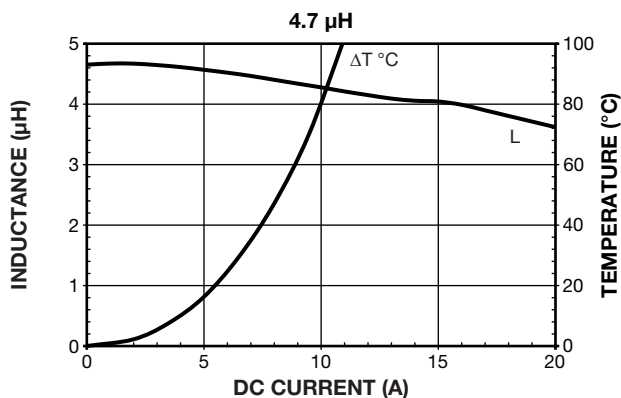
PATENT(S): www.vishay.com/patents

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



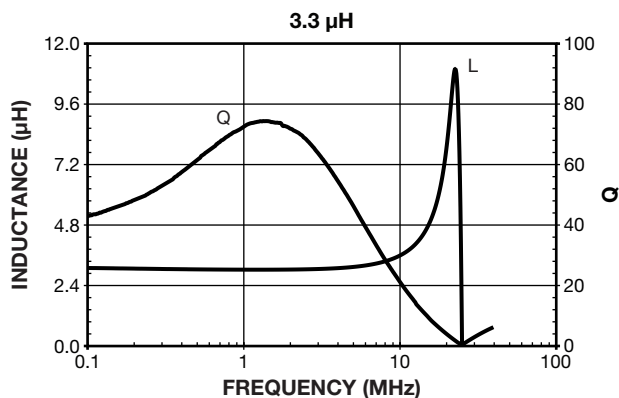
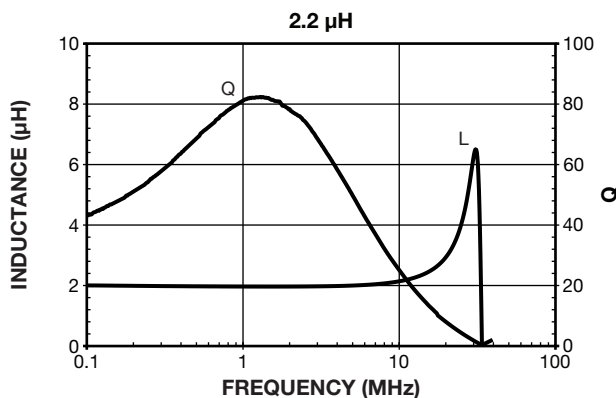
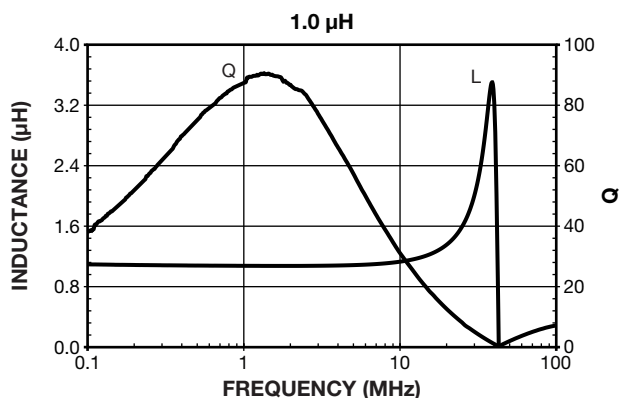
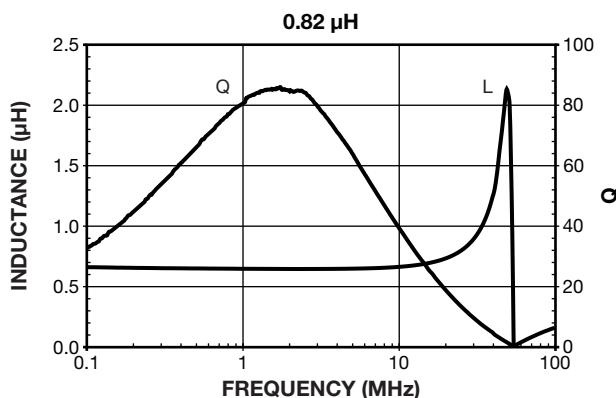
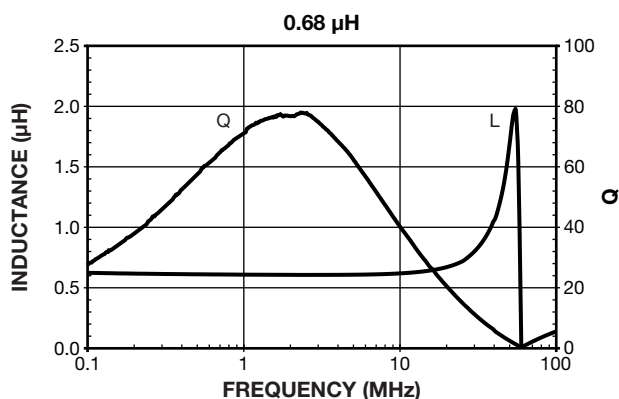
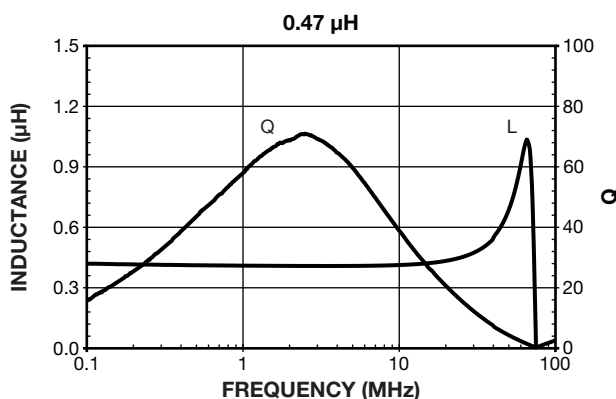
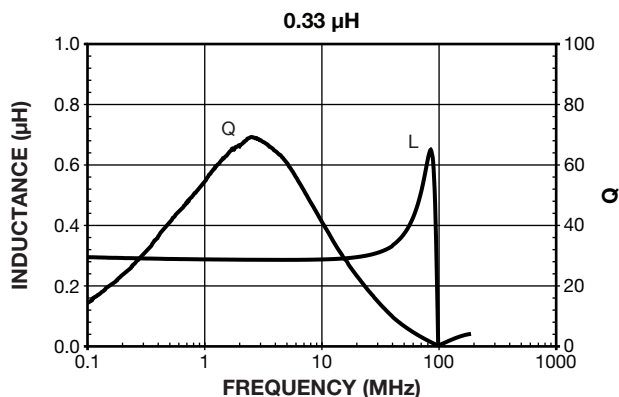
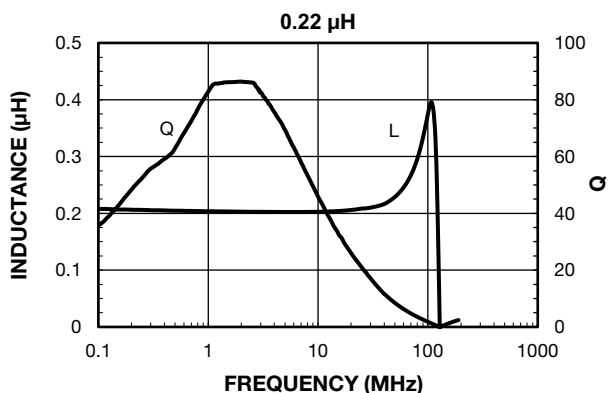
PERFORMANCE GRAPHS

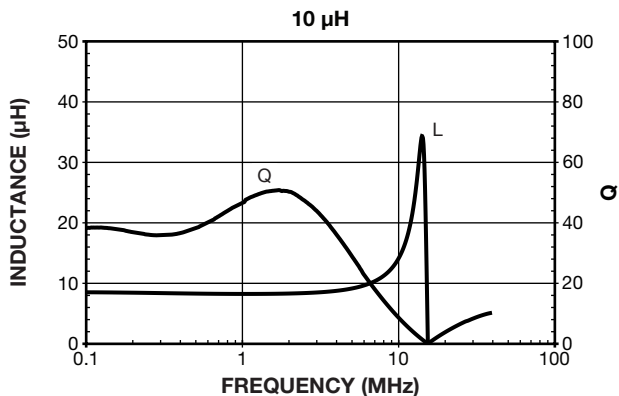
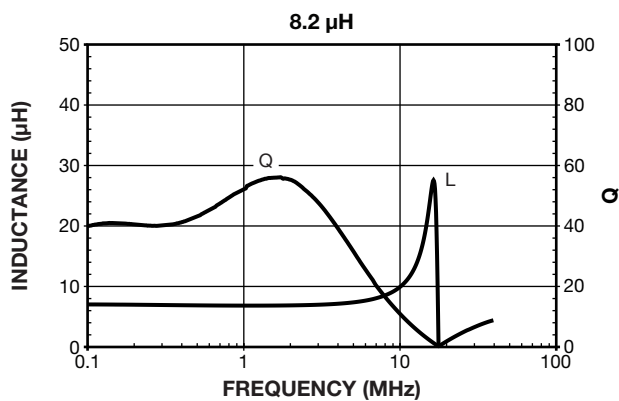
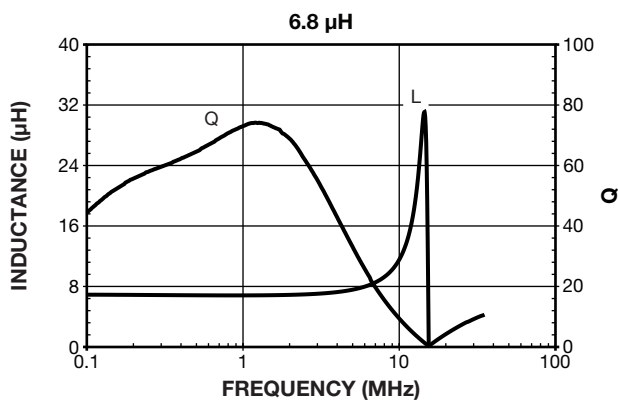
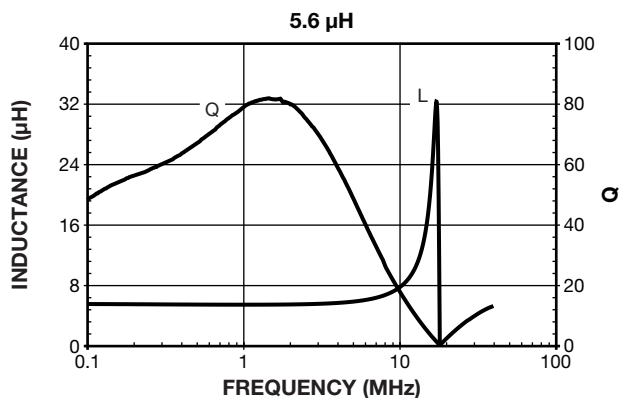
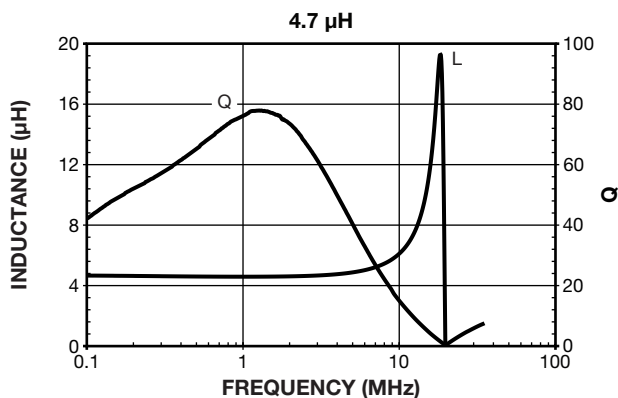


PERFORMANCE GRAPHS




PERFORMANCE GRAPHS: INDUCTANCE AND Q VS. FREQUENCY



PERFORMANCE GRAPHS: INDUCTANCE AND Q VS. FREQUENCY




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