

IHLP® Automotive Inductors, High Saturation Series



LINKS TO ADDITIONAL RESOURCES


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) ⁽²⁾
0.22	0.63	0.75	80	129
0.33	0.71	0.82	65	126
0.47	0.90	1.03	62	123
0.56	0.91	1.05	56	88
0.82	1.17	1.29	50	73
1.0	1.28	1.38	48	73
1.5	1.78	1.88	42	65
1.8	1.96	2.10	38	65
2.2	2.40	2.53	35	62
3.3	3.68	3.88	28	54
4.7	4.84	5.11	25	41
5.6	6.68	7.05	21	40
6.8	8.37	8.83	19	32
8.2	10.10	10.66	18	25
10.0	11.6	12.0	16.5	25
15.0	18.8	19.9	12.5	25
22.0	25.1	26.5	11	23

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 L₀ to drop approximately 20 %

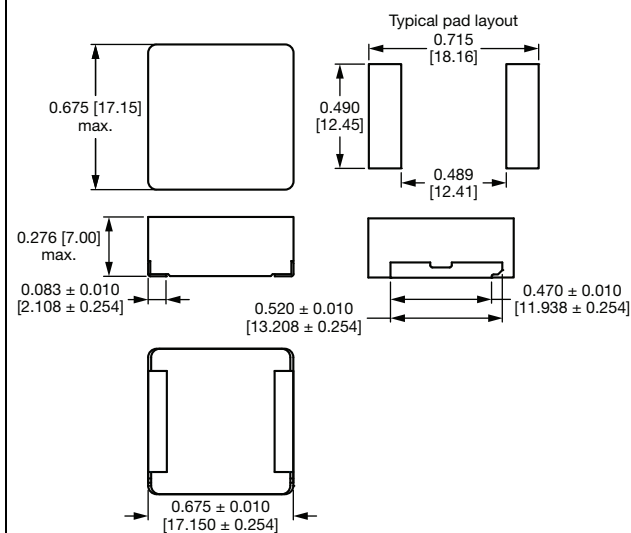
FEATURES

- Shielded construction
- Frequency range up to 2.0 MHz
- Lowest DCR/μH, in this package size
- Handles high transient current spikes without saturation
- Saturation and inductance extremely stable over temperature
- Ultra low buzz noise, due to composite construction
- AEC-Q200 qualified
- IHLP design;
- PATENT(S): www.vishay.com/patents
- 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 blowers
 - HID lighting
- LED drivers

DIMENSIONS in inches [millimeters]



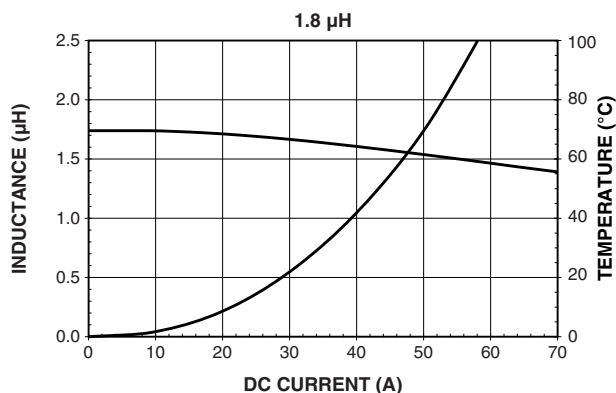
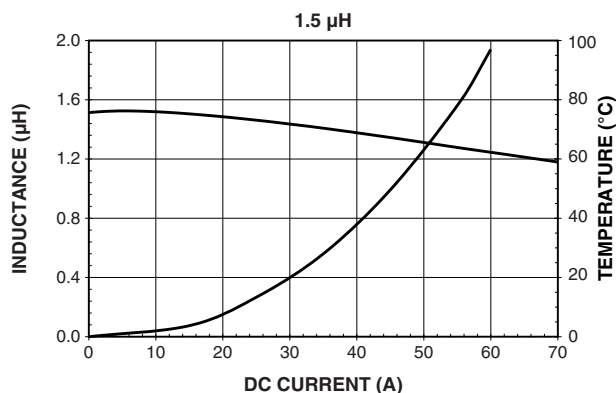
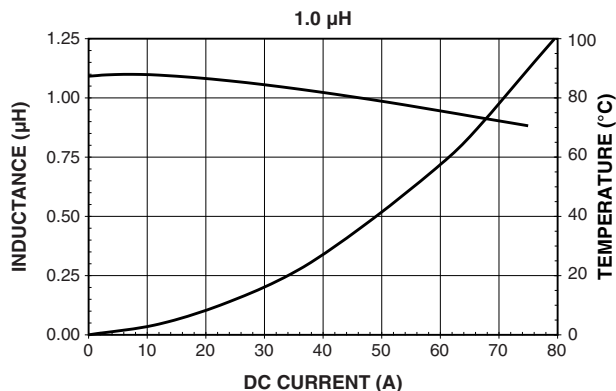
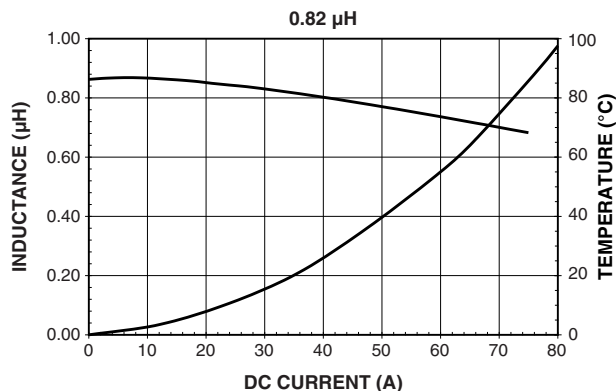
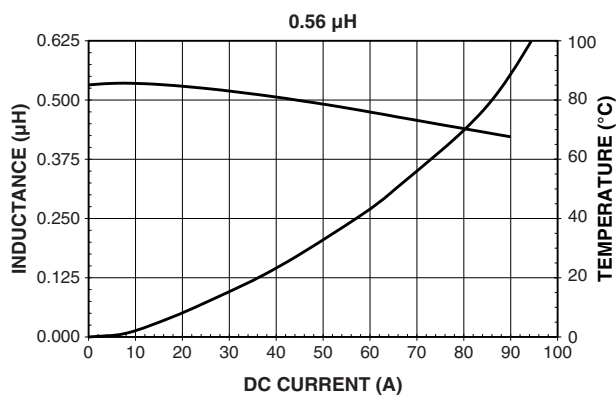
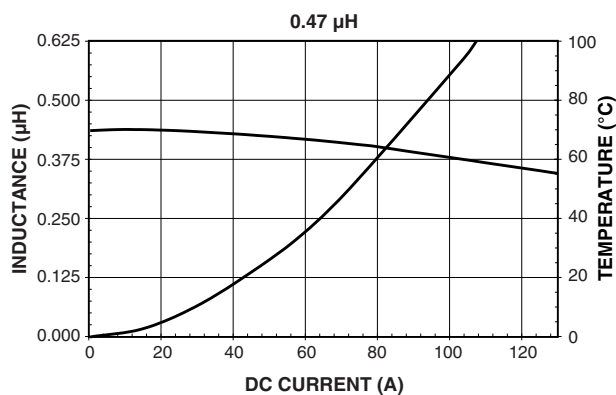
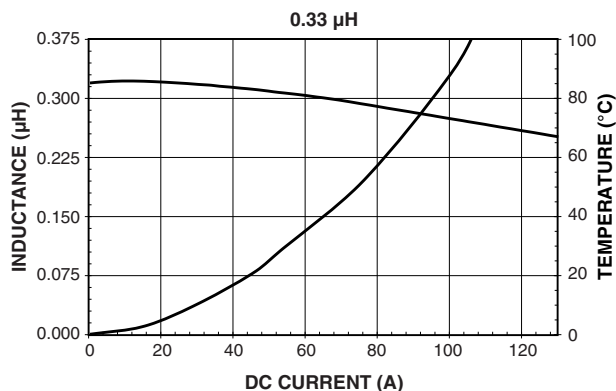
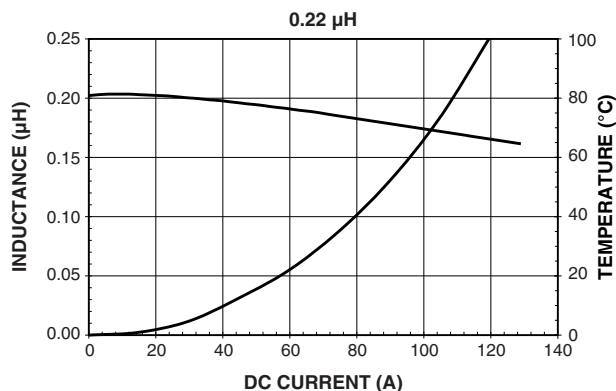
DESCRIPTION																	
IHLP-6767GZ-A1		4.7 μH		± 20 %		ER		e3									
MODEL		INDUCTANCE VALUE		INDUCTANCE TOLERANCE		PACKAGE CODE		JEDEC® LEAD (Pb)-FREE STANDARD									
GLOBAL PART NUMBER																	
I	H	L	P	6	7	6	7	G	Z	E	R	4	R	7	M	A	1
PRODUCT FAMILY				SIZE					PACKAGE CODE		INDUCTANCE VALUE		TOL.	SERIES			

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

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

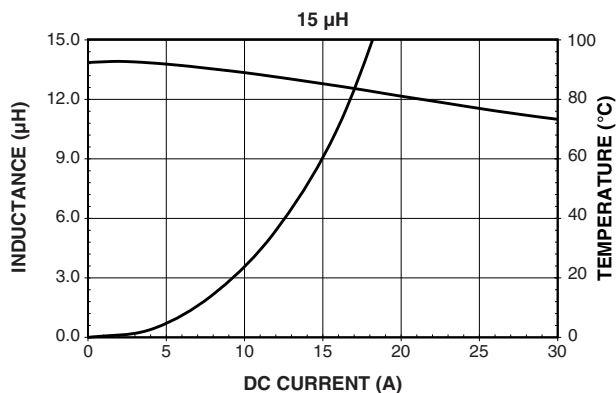
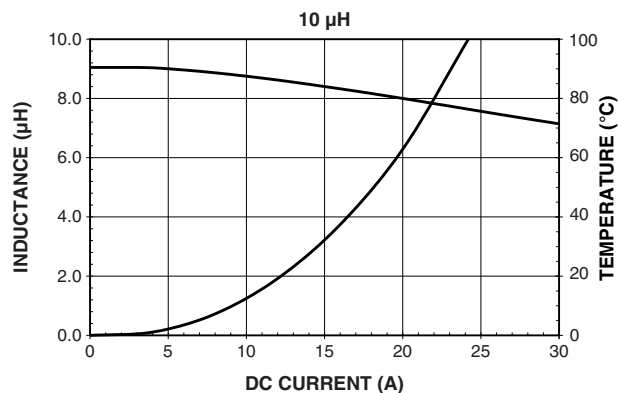
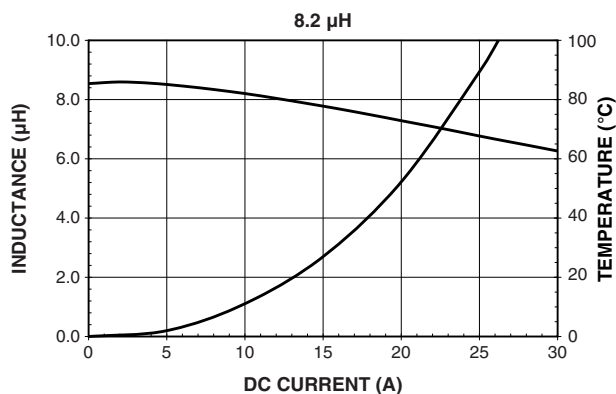
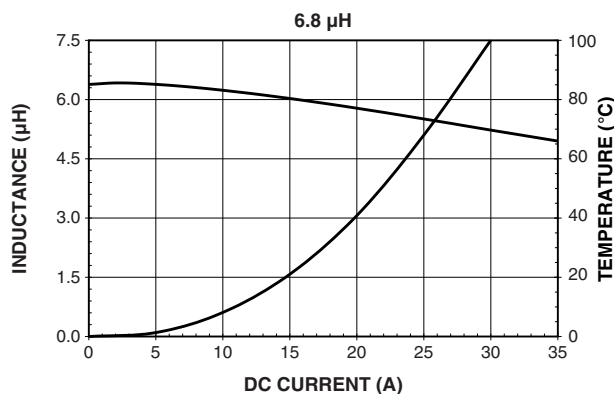
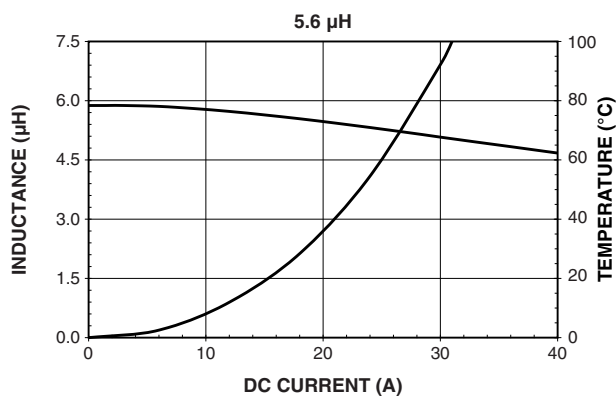
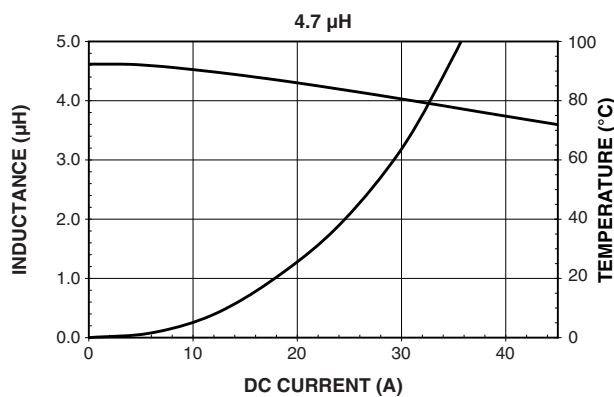
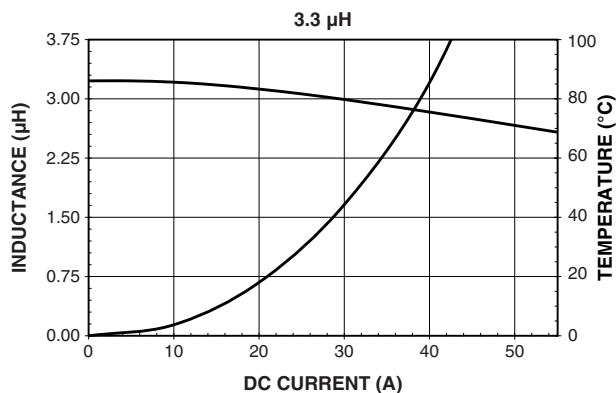
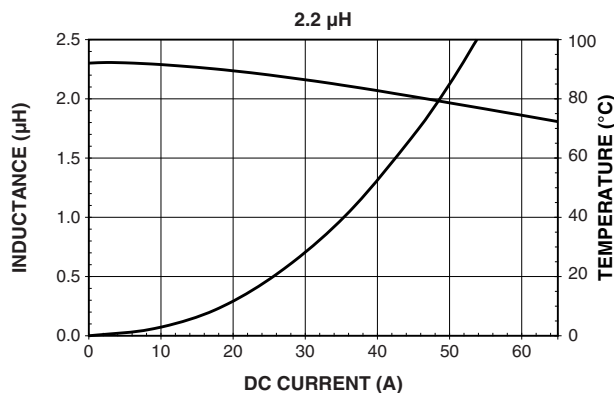


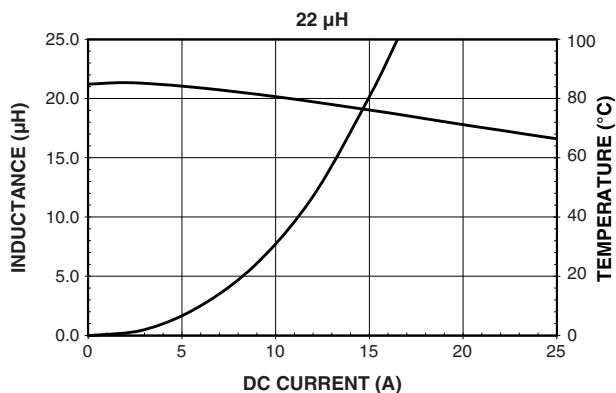
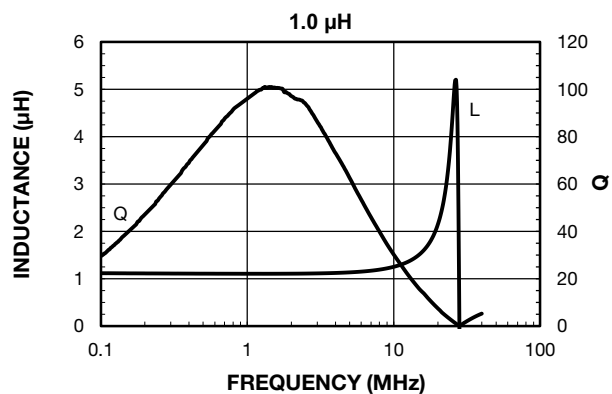
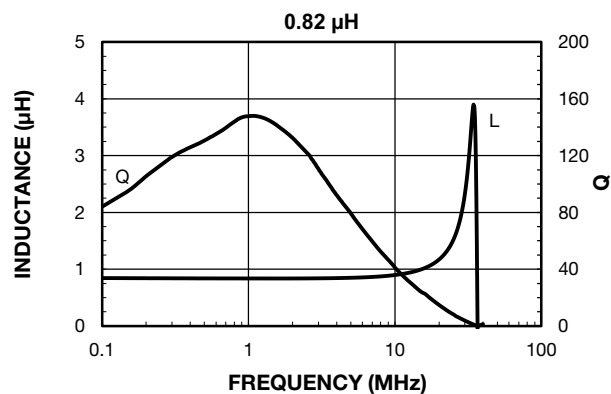
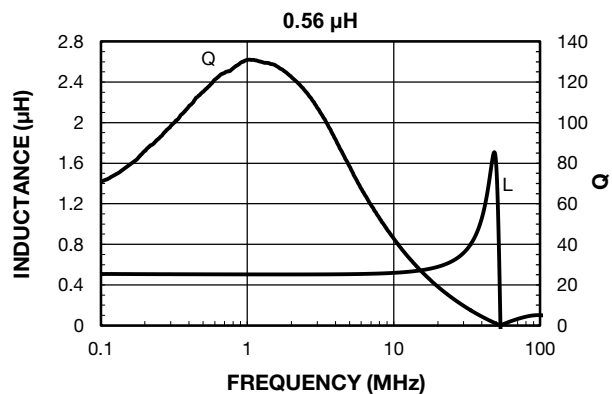
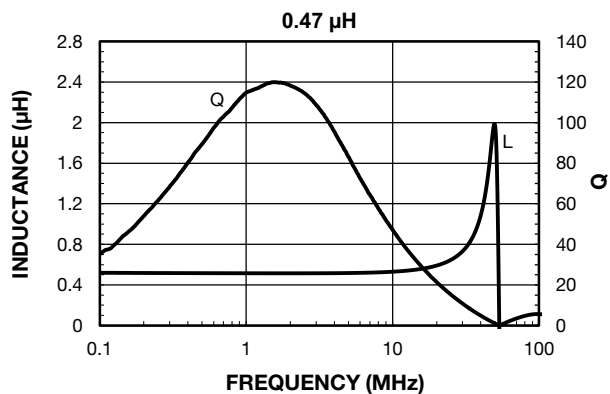
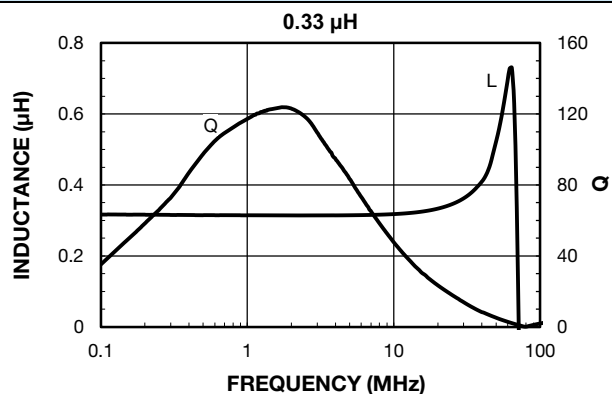
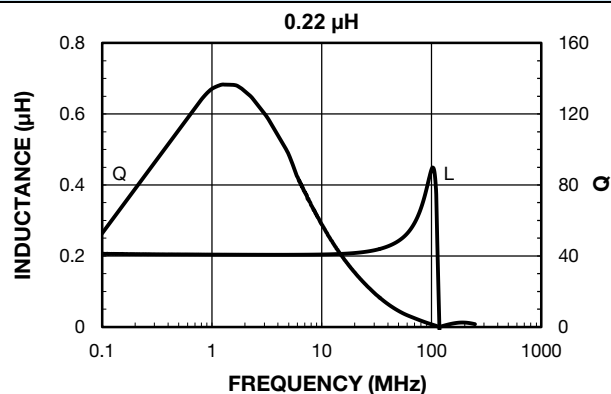
PERFORMANCE GRAPHS





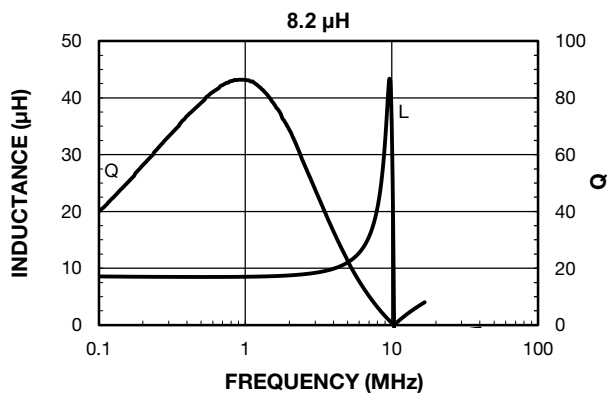
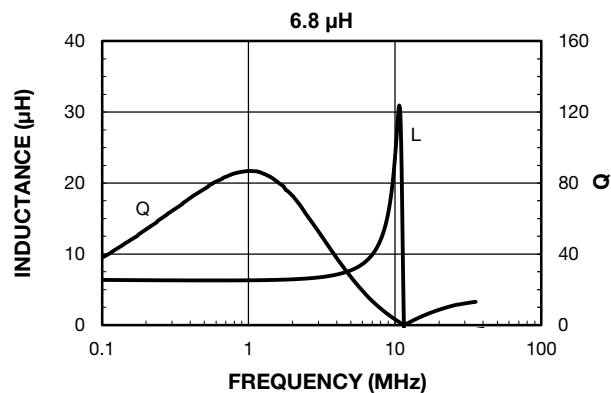
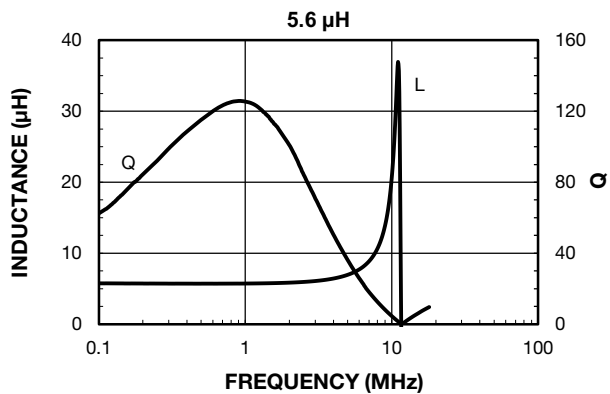
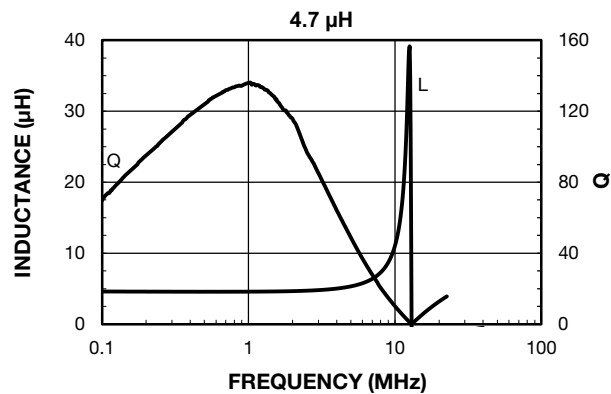
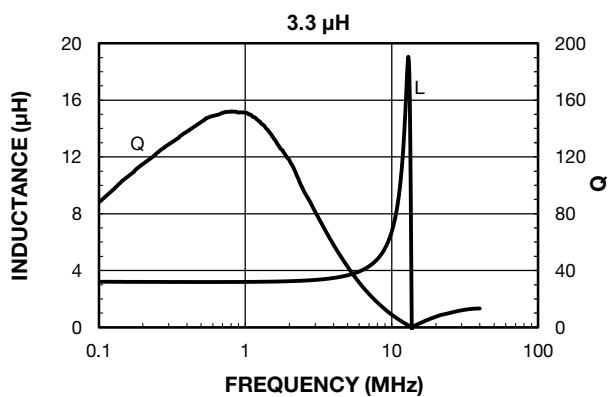
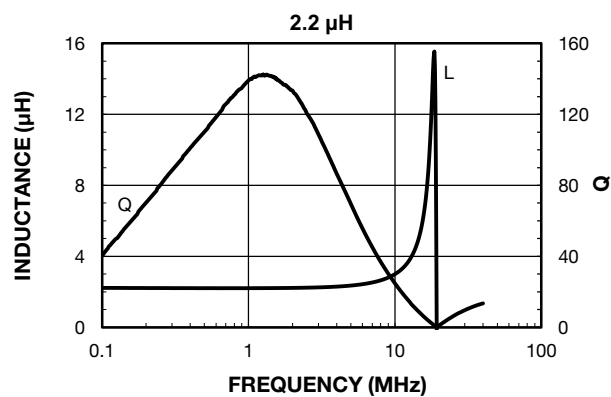
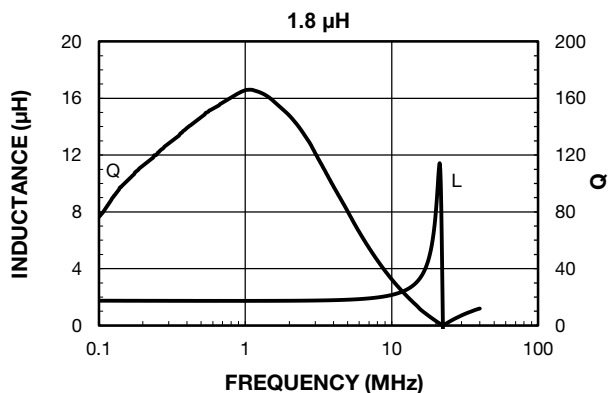
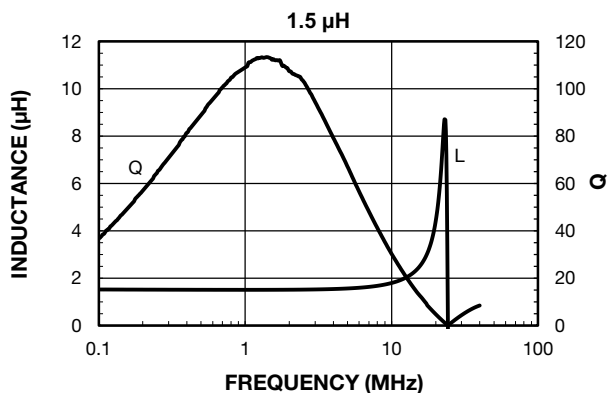
PERFORMANCE GRAPHS

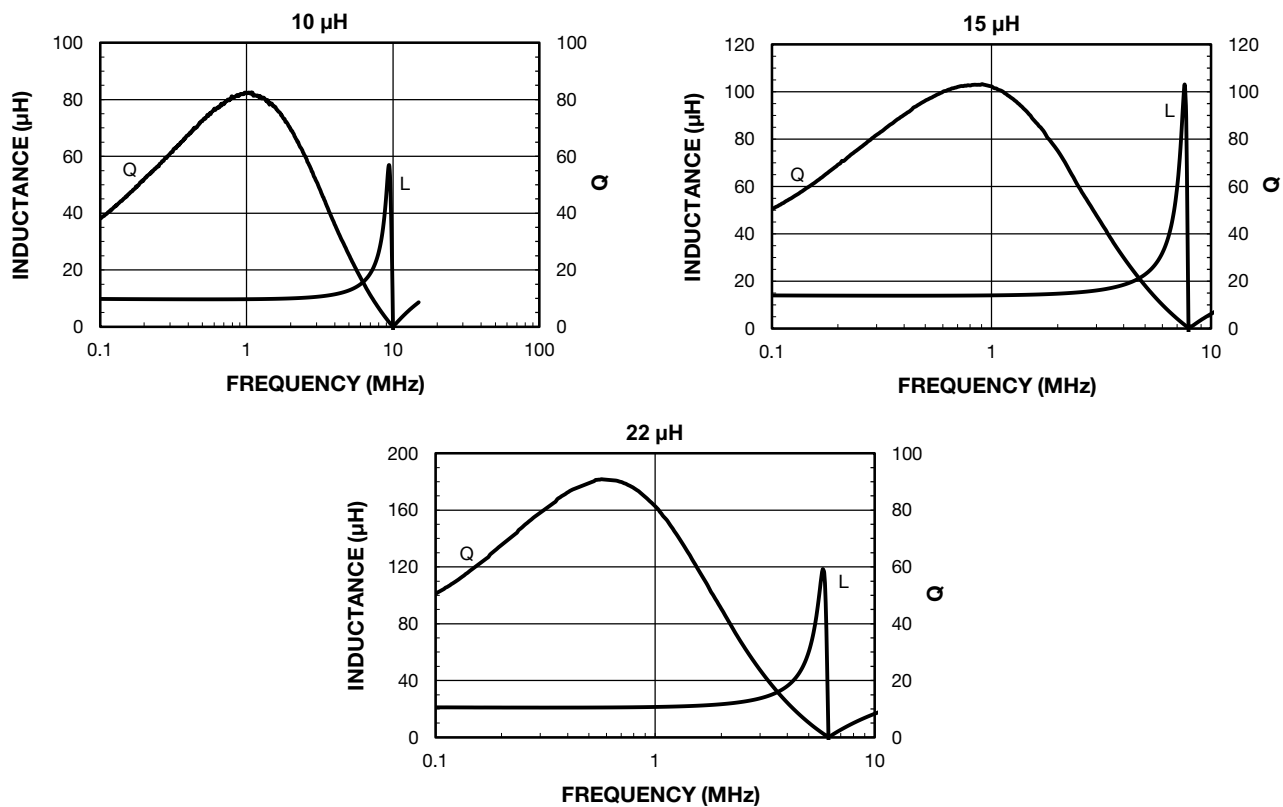


PERFORMANCE GRAPHS

PERFORMANCE GRAPHS: INDUCTANCE AND Q VS. FREQUENCY




PERFORMANCE GRAPHS: INDUCTANCE AND Q VS. FREQUENCY



PERFORMANCE GRAPHS: INDUCTANCE AND Q VS. FREQUENCY




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