



# IHLP® Tin / Lead Inductors, High Saturation Series



## LINKS TO ADDITIONAL RESOURCES



STANDARD ELECTRICAL SPECIFICATIONS				
L <sub>0</sub> 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) <sup>(1)</sup>	SATURATION CURRENT DC TYP. (A) <sup>(2)</sup>
0.22	0.63	0.70	80	129
0.33	0.71	0.79	65	126
0.47	0.90	1.03	62	123
0.56	0.91	1.00	56	88
0.82	1.17	1.29	50	73
1.0	1.28	1.35	48	73
1.5	1.78	1.88	42	65
1.8	1.96	2.07	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
- <sup>(1)</sup> DC current (A) that will cause an approximate ΔT of 40 °C
- <sup>(2)</sup> DC current (A) that will cause L<sub>0</sub> to drop approximately 20 %

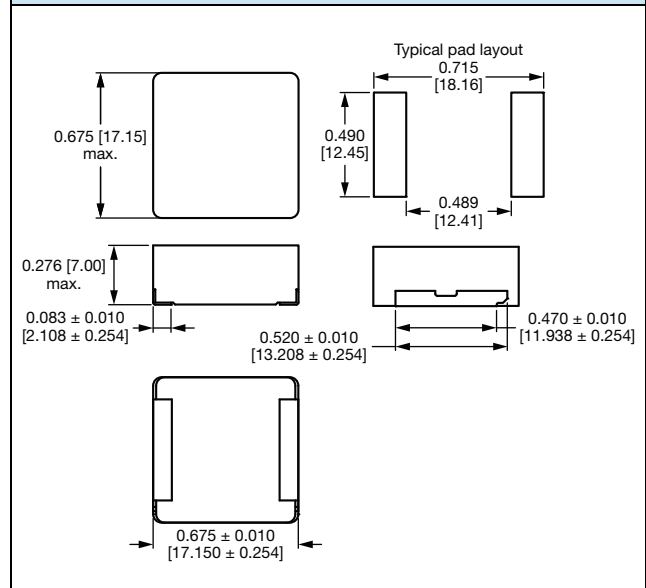
## FEATURES

- Shielded construction
- Frequency range up to 2.0 MHz
- Lowest DCR/μH, in this package size
- Handles high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction
- Tin / lead Sn / Pb **plated** (not dipped) terminals
- IHLP design; PATENT(S): [www.vishay.com/patents](http://www.vishay.com/patents)

## APPLICATIONS

- Desktop / server applications
- High current buck and boost converters
- Low profile, high current power supplies
- DC/DC converters in distributed power systems
- High current noise filter

## DIMENSIONS in inches [millimeters]



DESCRIPTION			
IHLP-6767GZ-L1	4.7 μH	± 20 %	RZ
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE

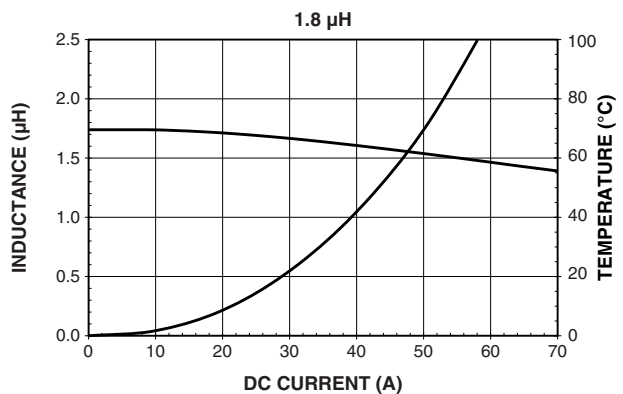
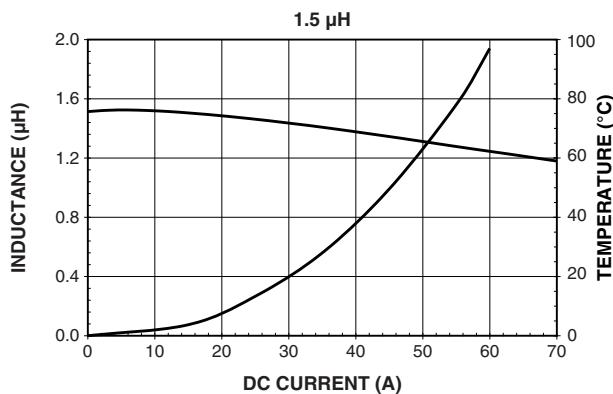
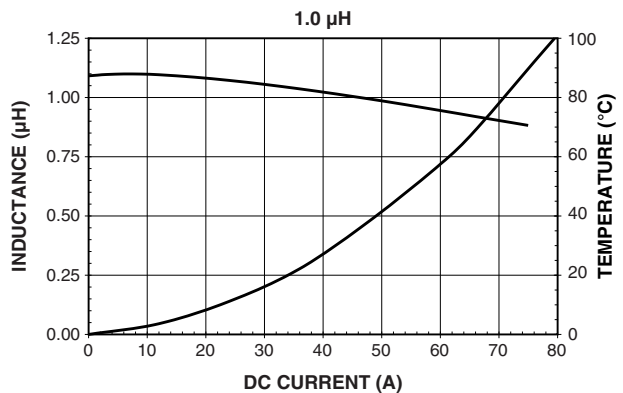
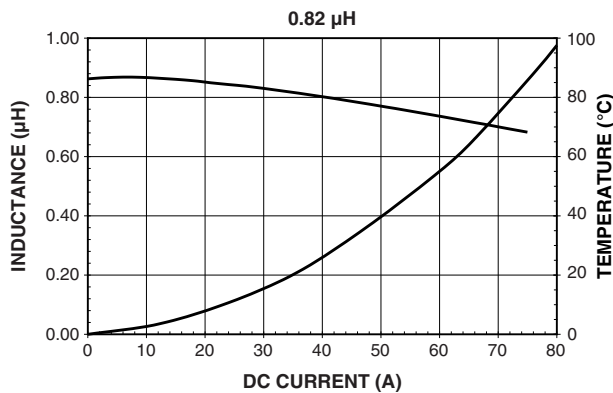
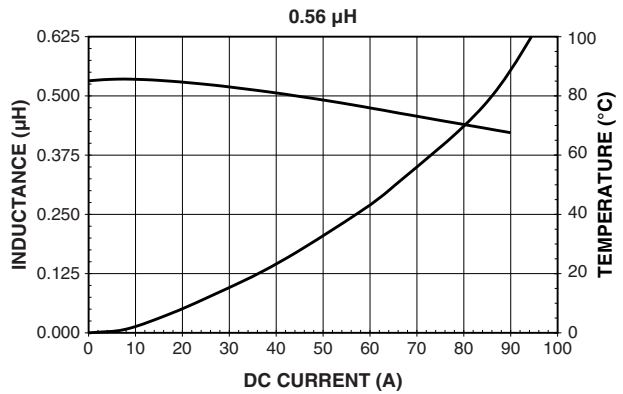
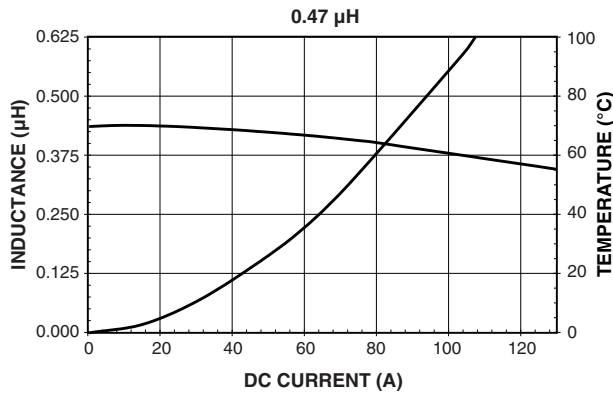
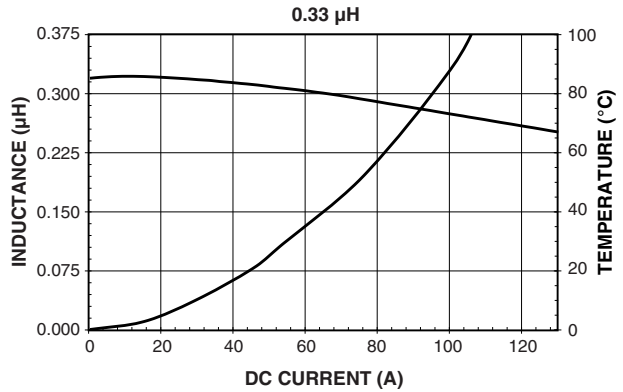
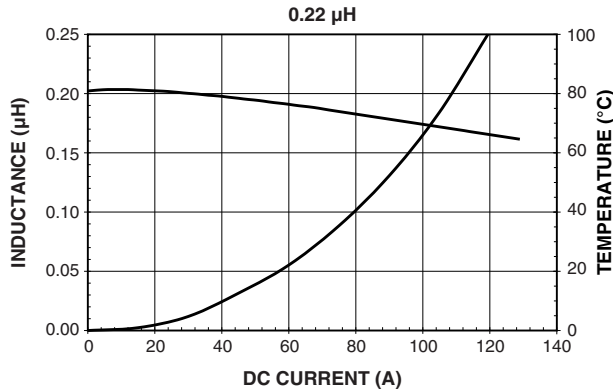
GLOBAL PART NUMBER																	
I	H	L	P	6	7	6	7	G	Z	R	Z	4	R	7	M	L	1
PRODUCT FAMILY				SIZE				PACKAGE CODE		INDUCTANCE VALUE		TOL.	SERIES				

PATENT(S): [www.vishay.com/patents](http://www.vishay.com/patents)

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

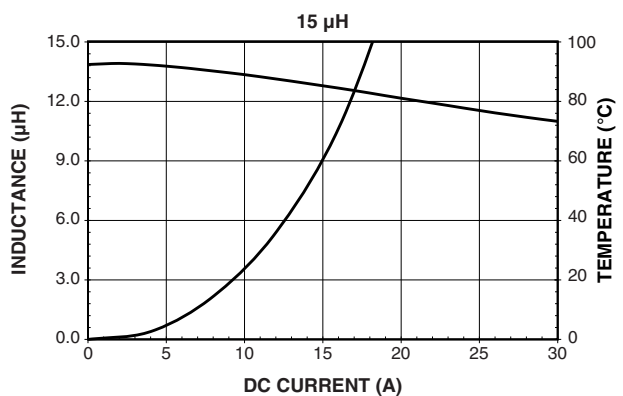
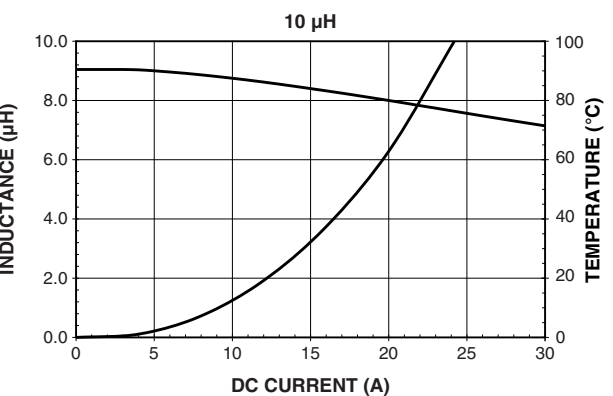
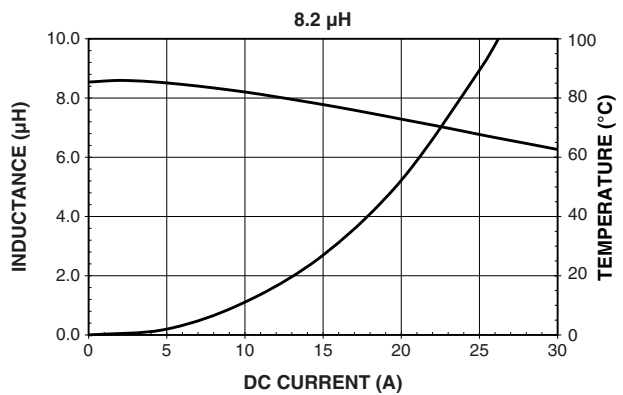
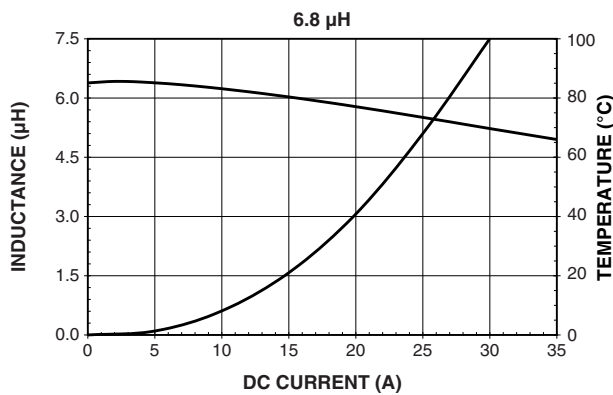
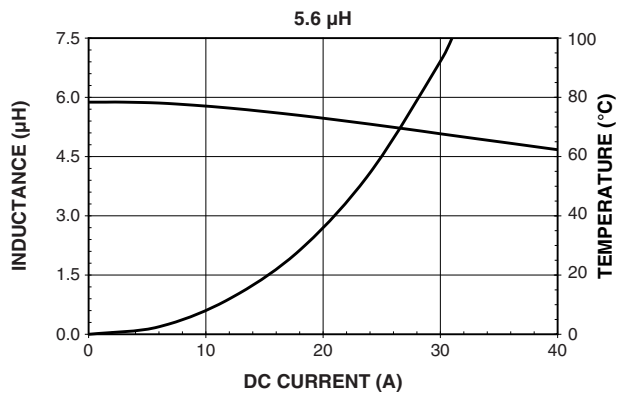
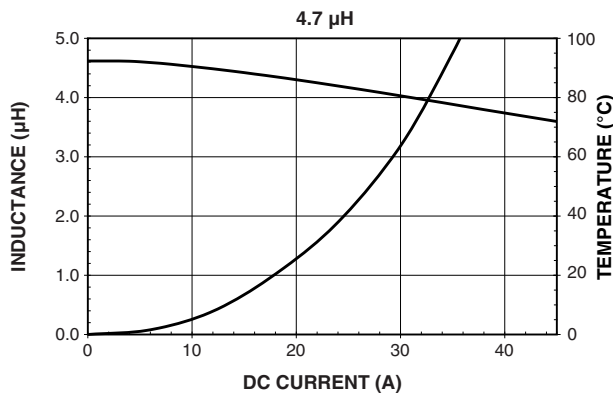
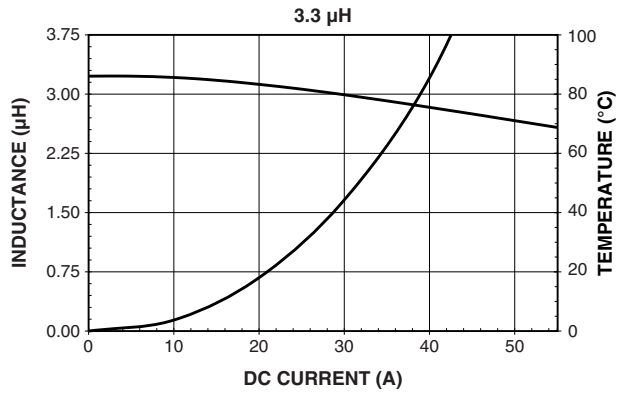
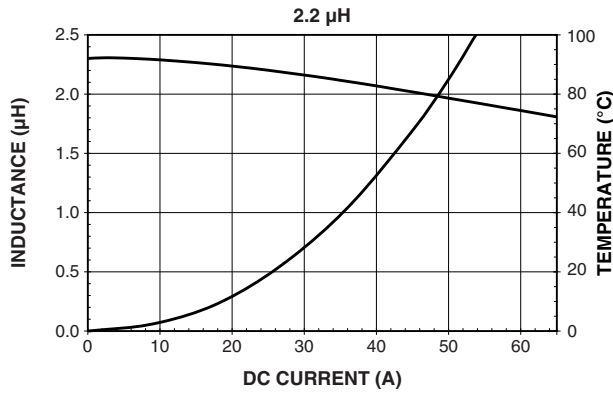


PERFORMANCE GRAPHS



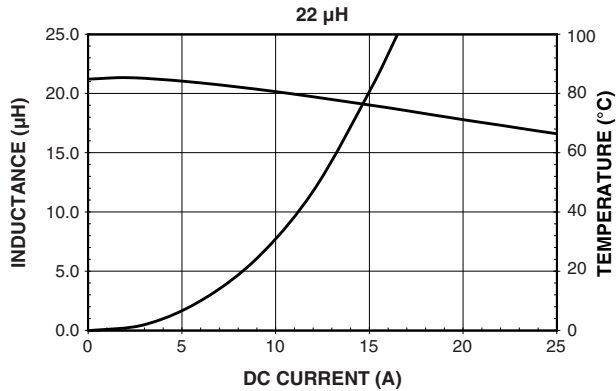


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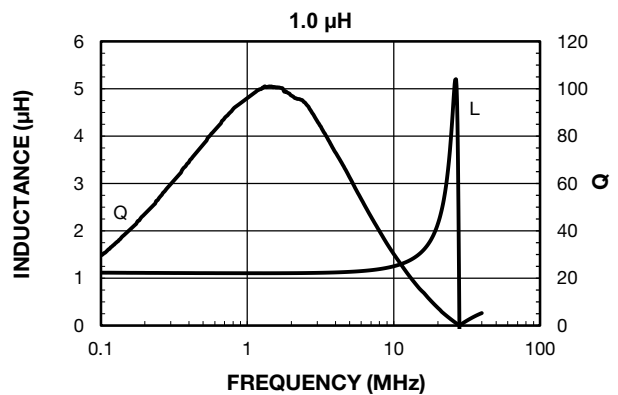
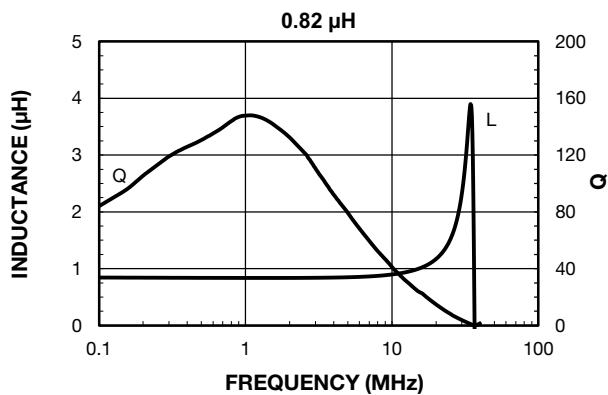
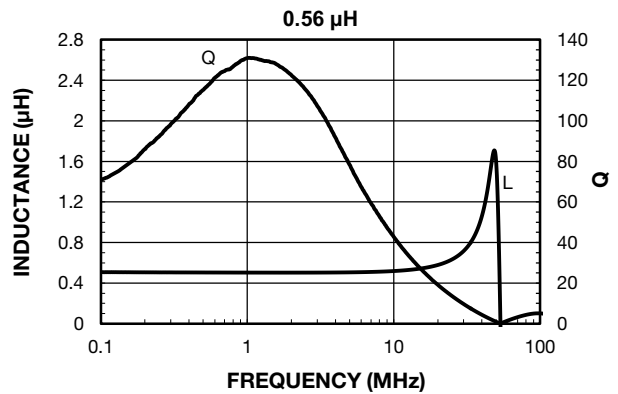
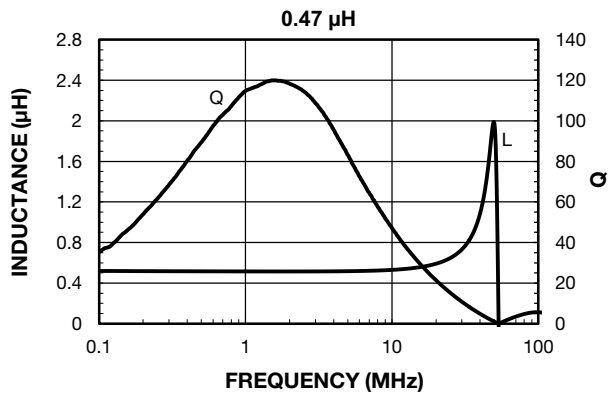
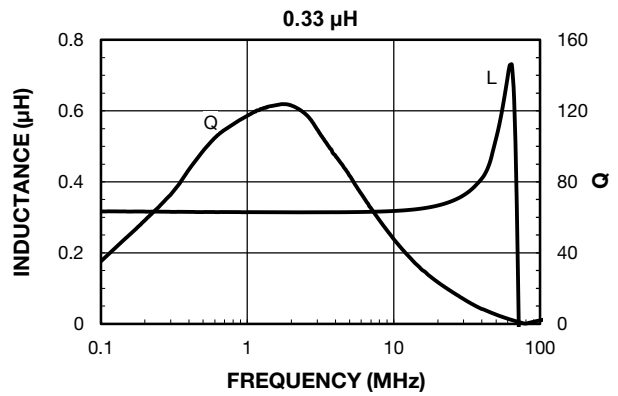
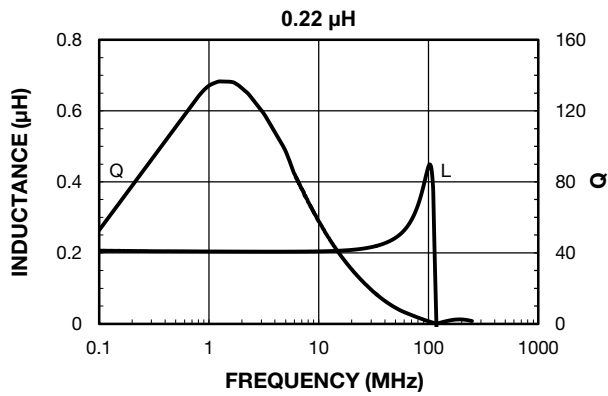




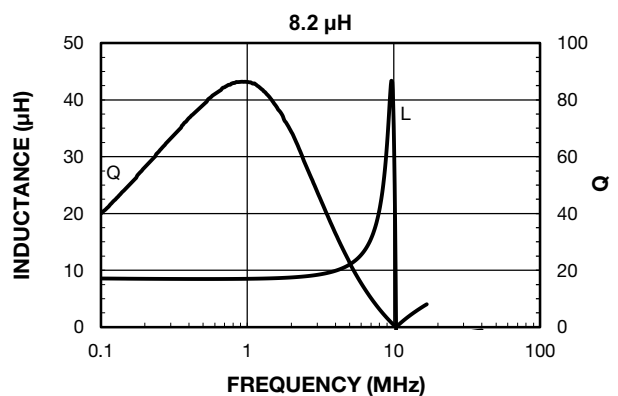
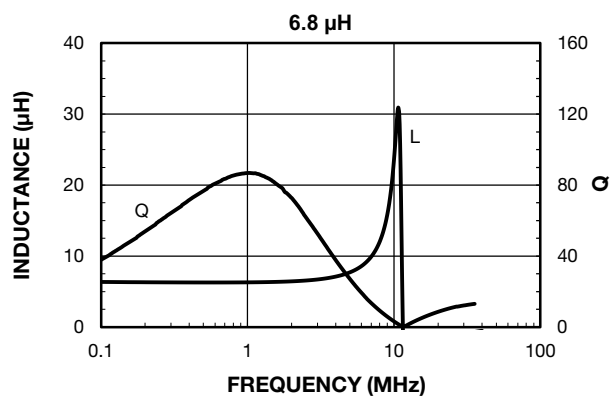
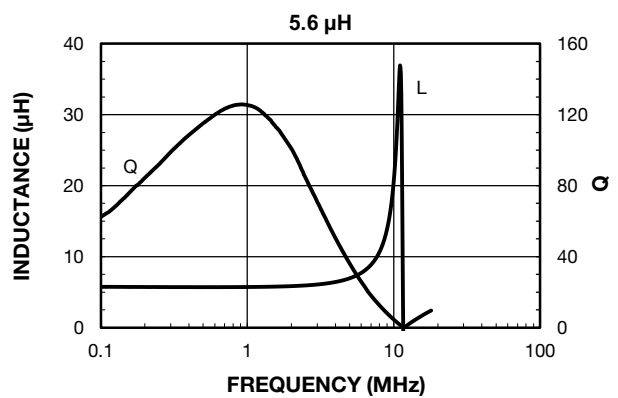
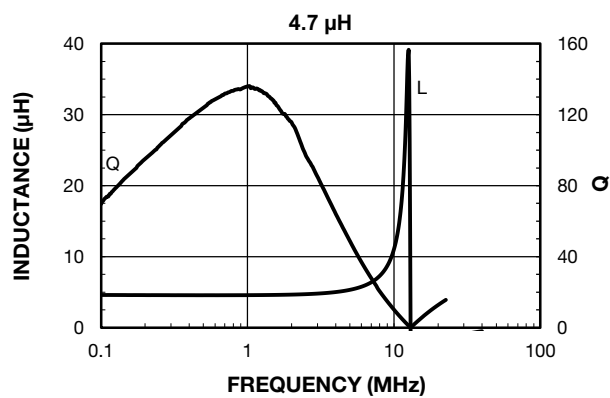
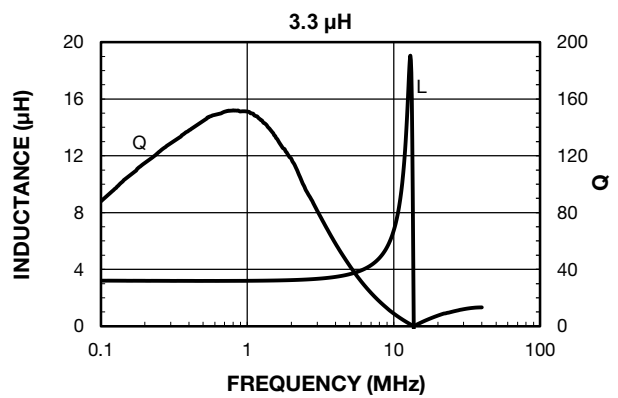
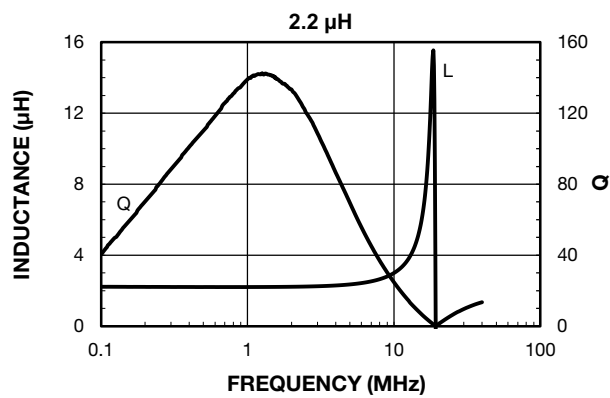
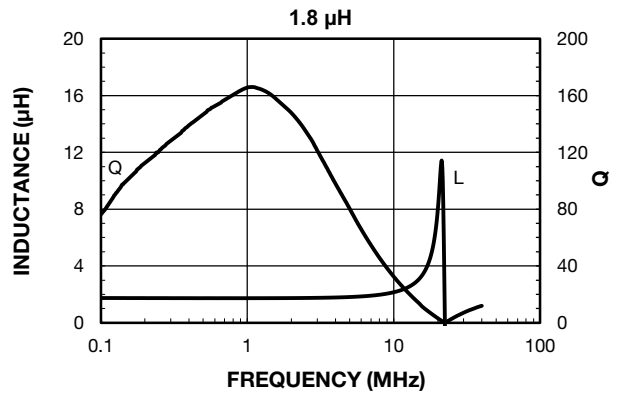
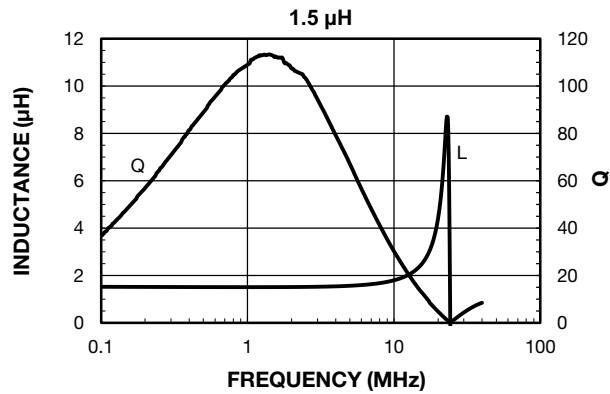
PERFORMANCE GRAPHS



PERFORMANCE GRAPHS: INDUCTANCE AND Q VS. FREQUENCY

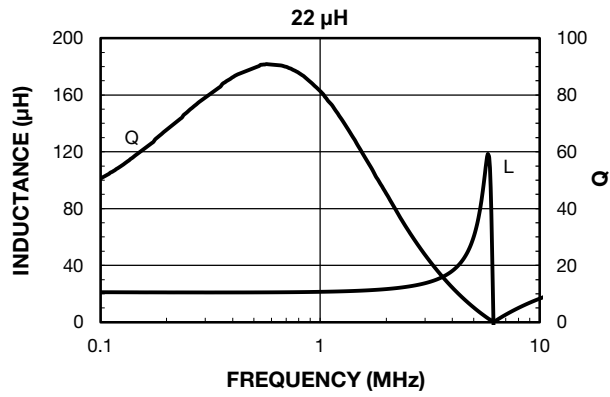
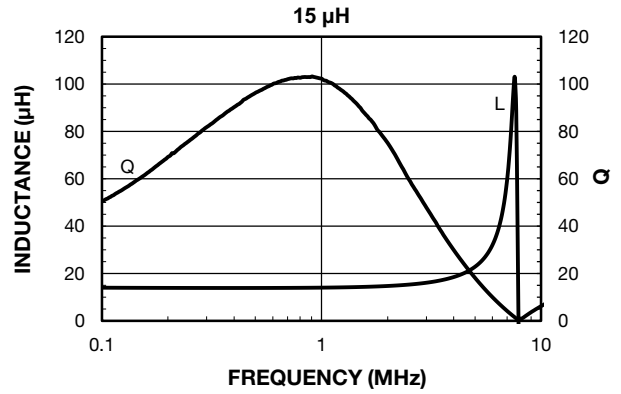
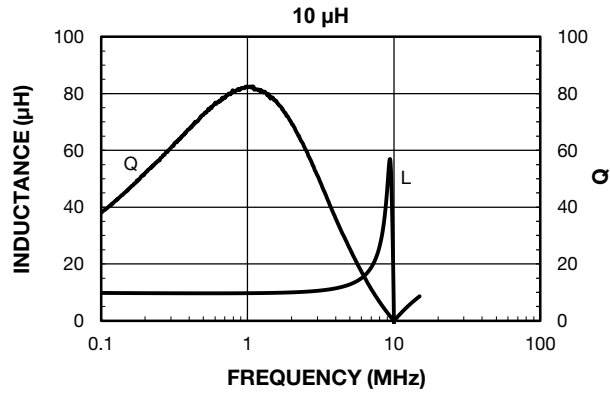


**PERFORMANCE GRAPHS: INDUCTANCE AND Q VS. FREQUENCY**





**PERFORMANCE GRAPHS: INDUCTANCE AND Q VS. FREQUENCY**





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