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## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





# IHLP® Commercial Inductors, High Saturation Series



**DESIGN SUPPORT TOOLS** click logo to get started



## 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	0.75	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
- <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
- Saturation and inductance extremely stable over temperature
- Ultra low buzz noise, due to composite construction
- IHLP design. PATENT(S): [www.vishay.com/patents](http://www.vishay.com/patents)
- Material categorization: for definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)

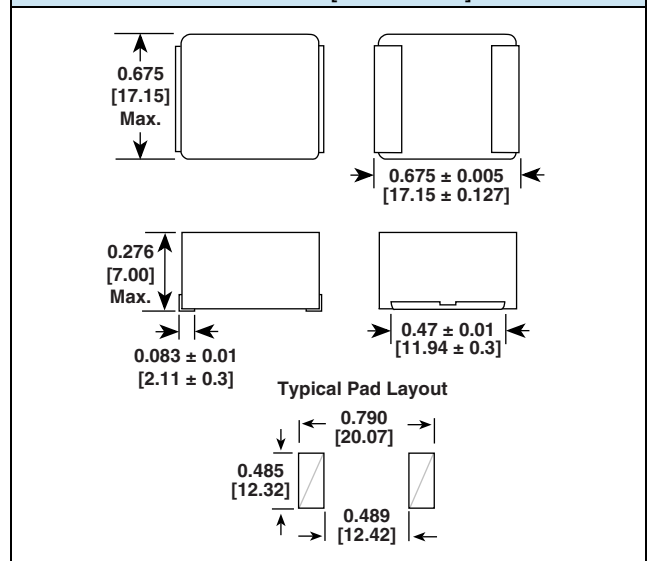


**RoHS**  
COMPLIANT  
HALOGEN  
**FREE**  
**GREEN**  
(5-2008)

## 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

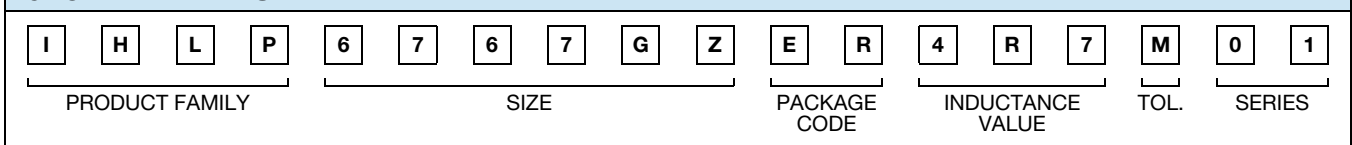
## DIMENSIONS in inches [millimeters]



## DESCRIPTION

IHLP-6767GZ-01	4.7 µH	± 20 %	ER	e3
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD

## GLOBAL PART NUMBER

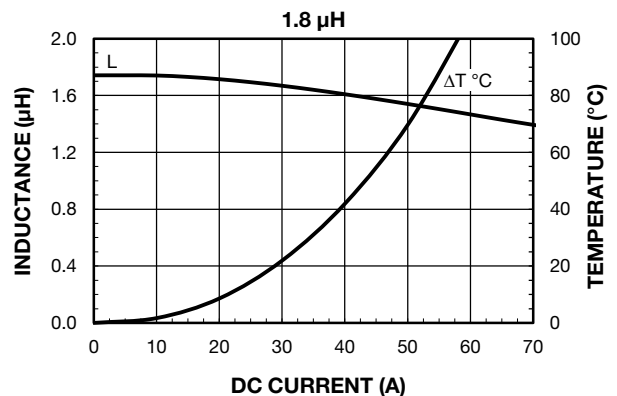
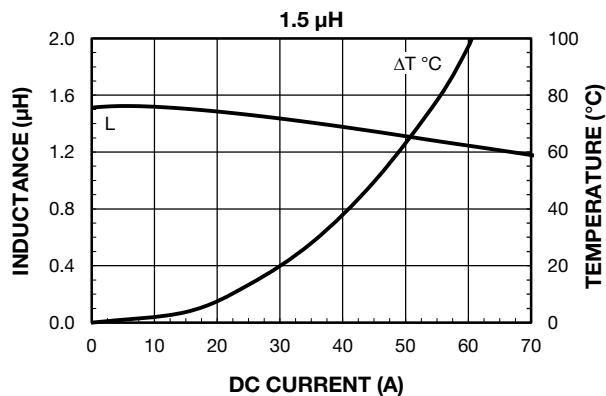
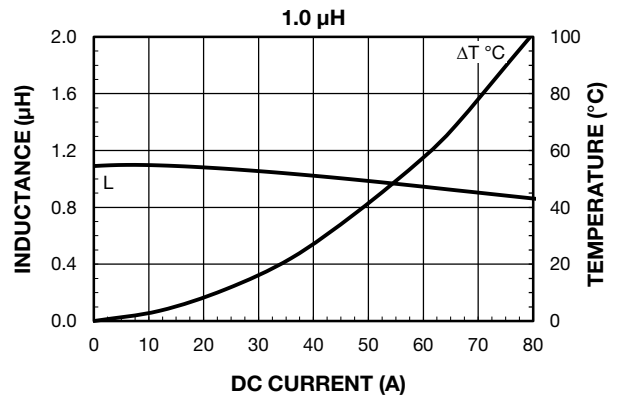
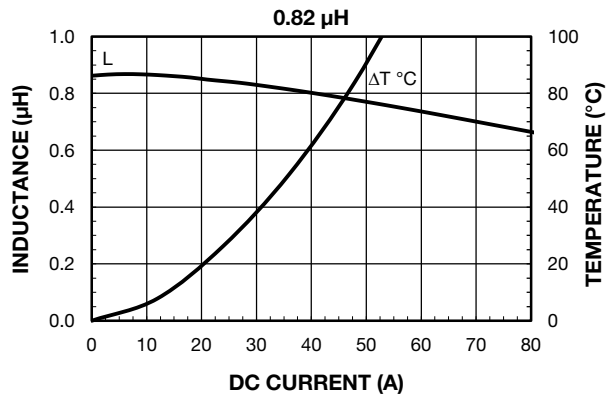
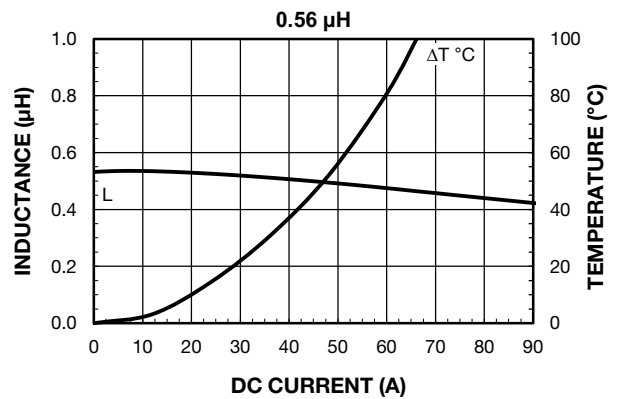
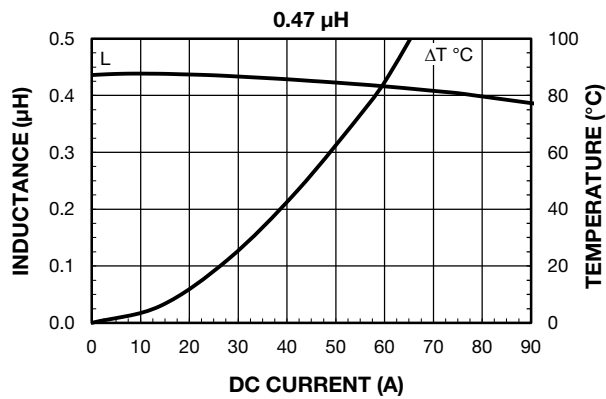
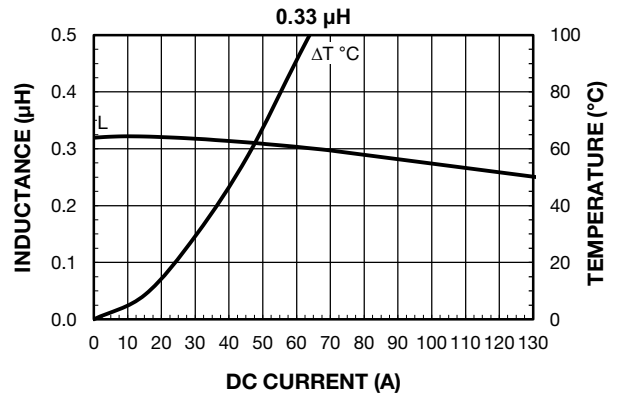
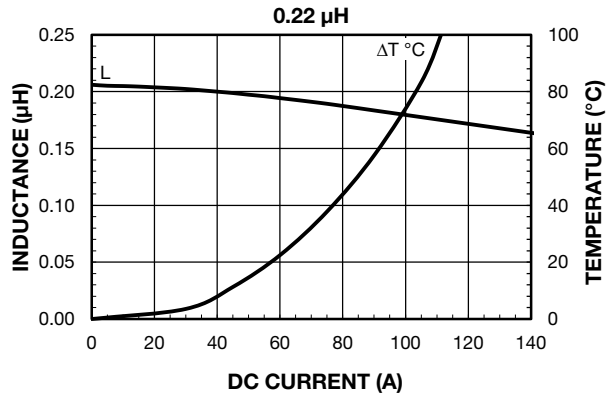


PATENT(S): [www.vishay.com/patents](http://www.vishay.com/patents)

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

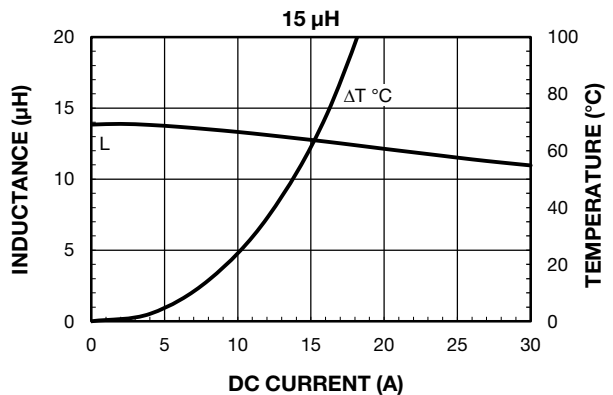
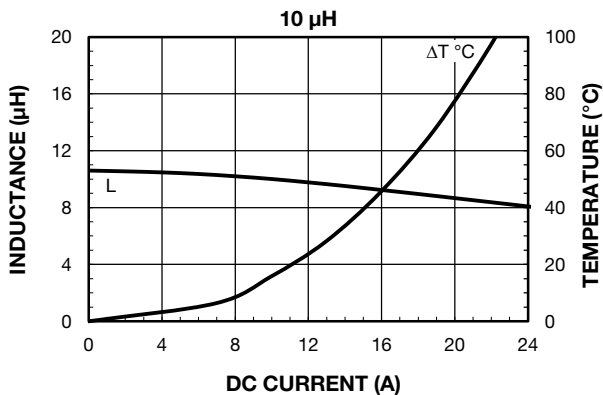
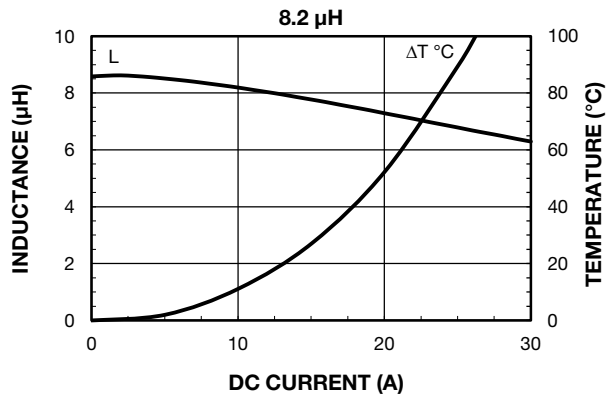
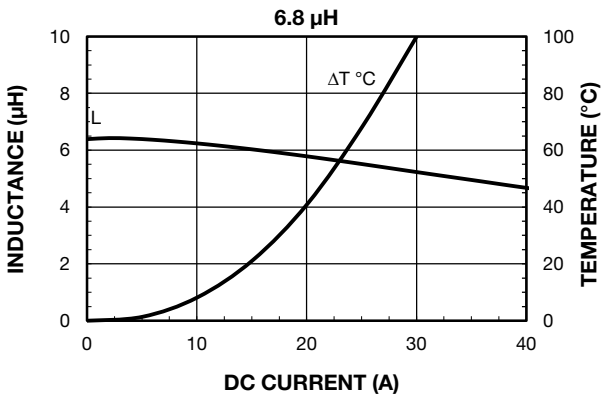
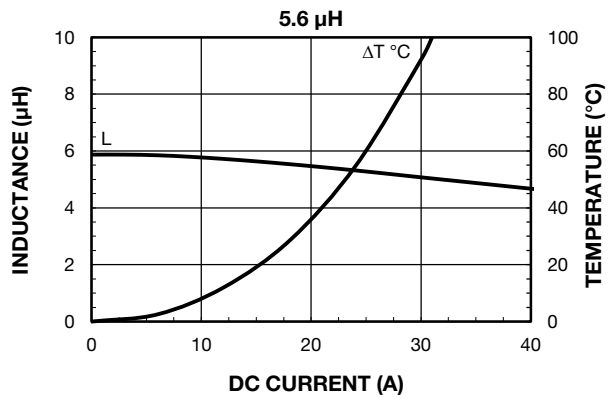
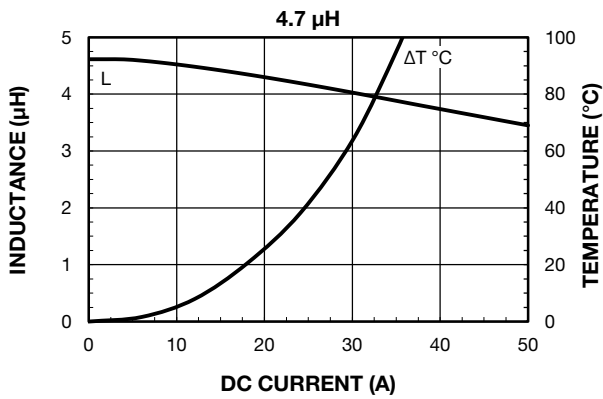
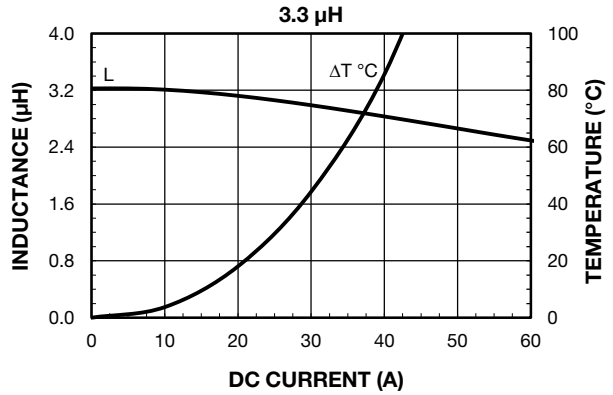
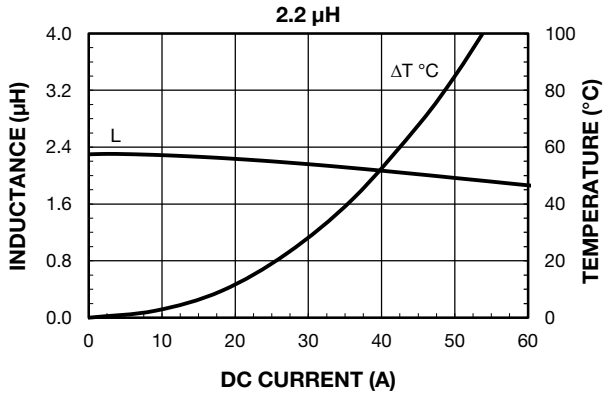


PERFORMANCE GRAPHS

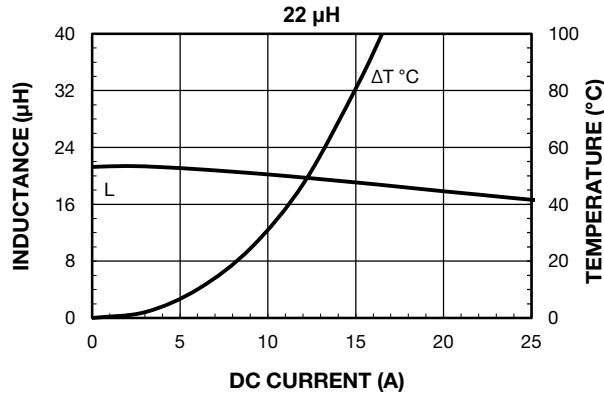




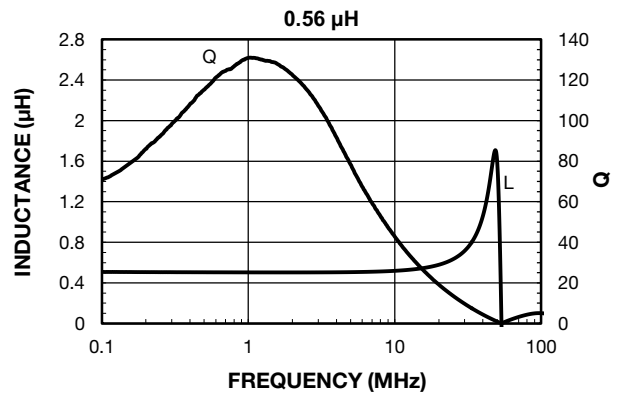
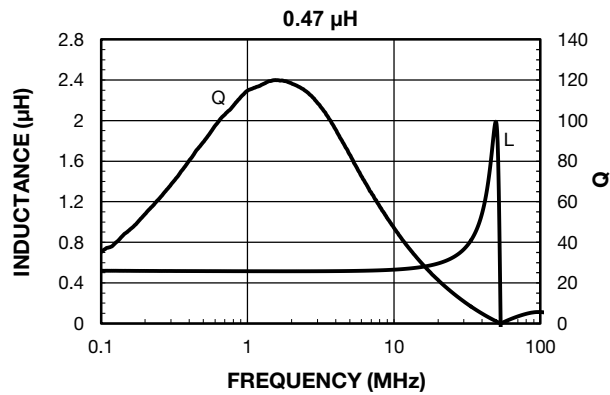
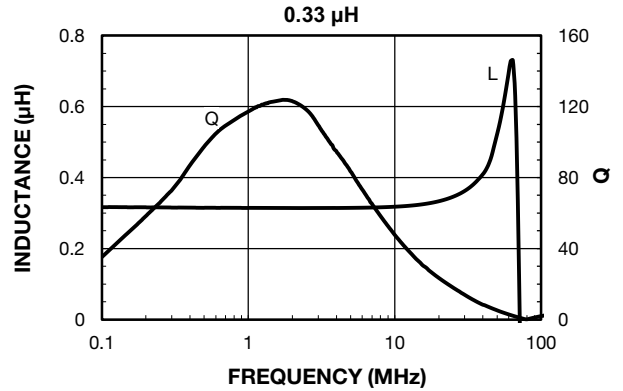
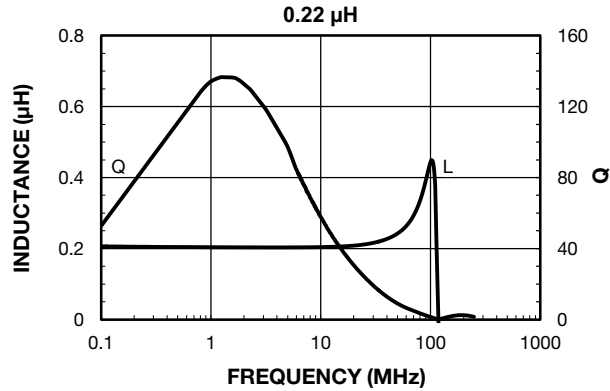
PERFORMANCE GRAPHS



**PERFORMANCE GRAPHS**

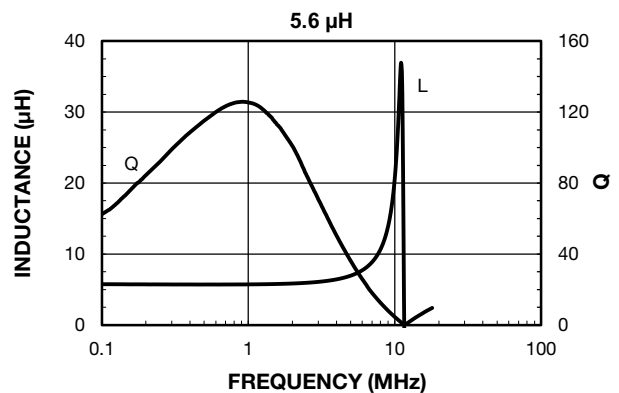
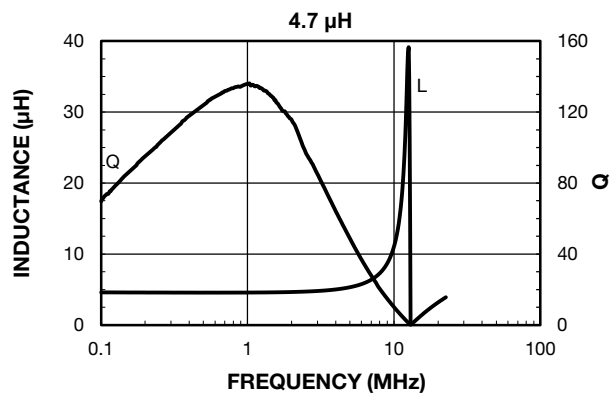
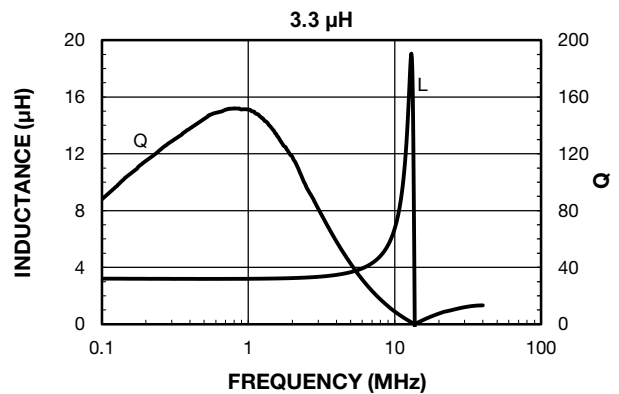
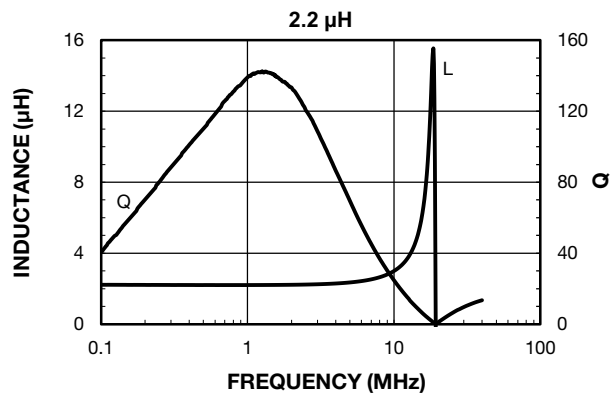
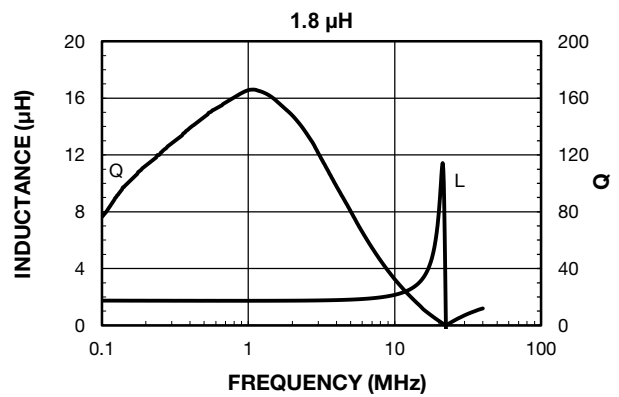
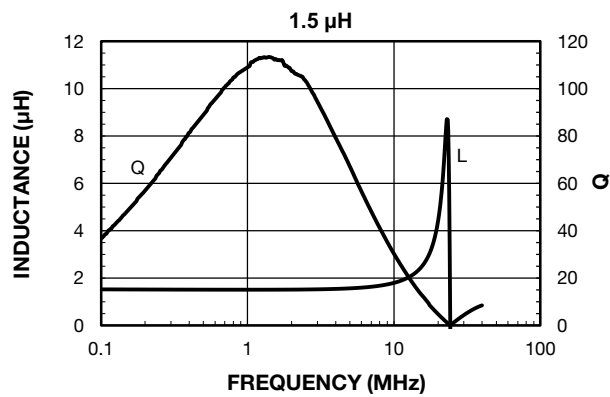
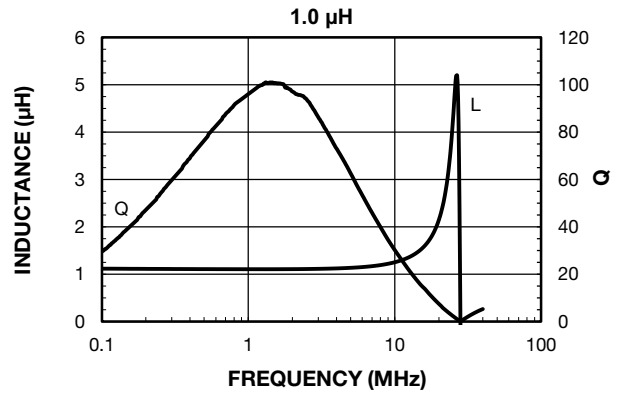
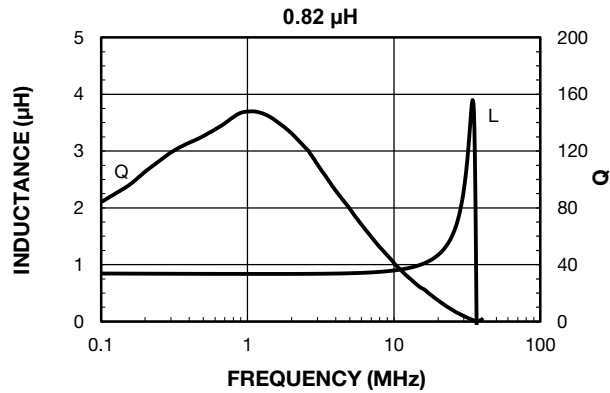


**PERFORMANCE GRAPHS: INDUCTANCE AND Q VS. FREQUENCY**



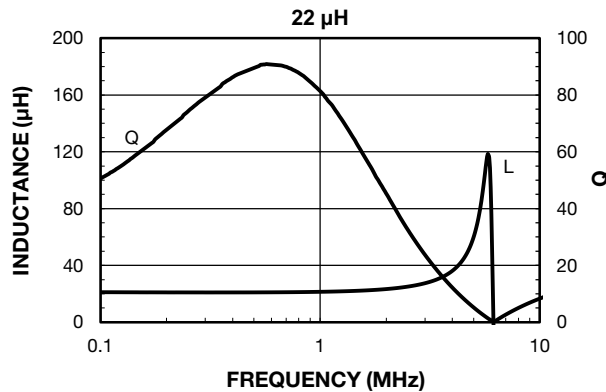
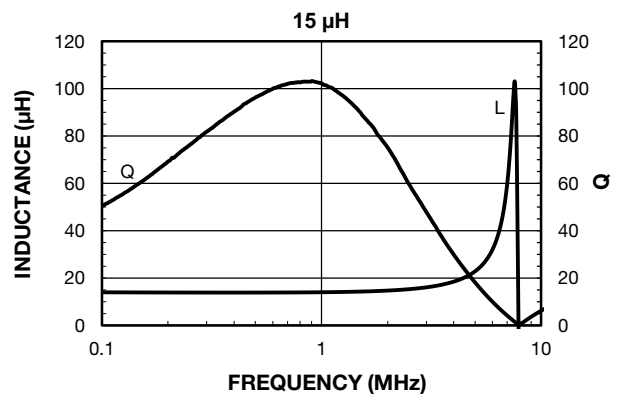
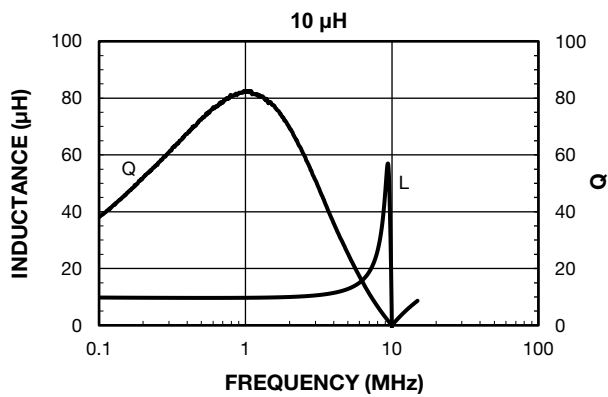
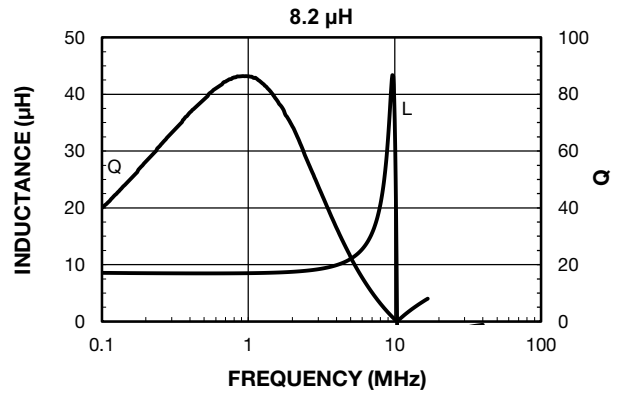
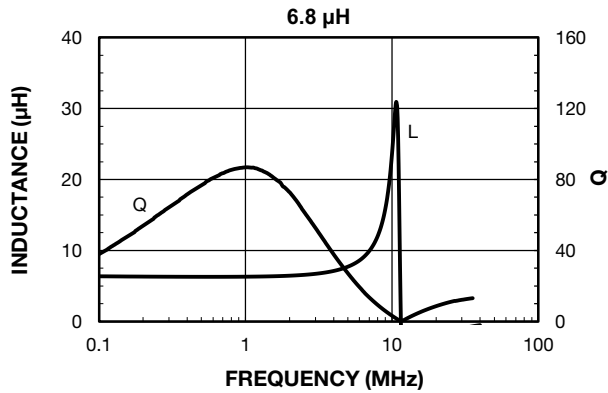


PERFORMANCE GRAPHS: INDUCTANCE AND Q VS. FREQUENCY





PERFORMANCE GRAPHS: INDUCTANCE AND Q VS. FREQUENCY





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