

IHLP® Automotive Inductors, High Saturation Series



LINKS TO ADDITIONAL RESOURCES



FEATURES

- Shielded construction
- Frequency range up to 2.0 MHz
- Lowest DCR/ μ H, 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


RoHS

COMPLIANT

HALOGEN

FREE

GREEN

(5-2008)

STANDARD ELECTRICAL SPECIFICATIONS				
INDUCTANCE ± 20 % AT 100 kHz, 0.25 V, 0 A (μ H)	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⁾
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

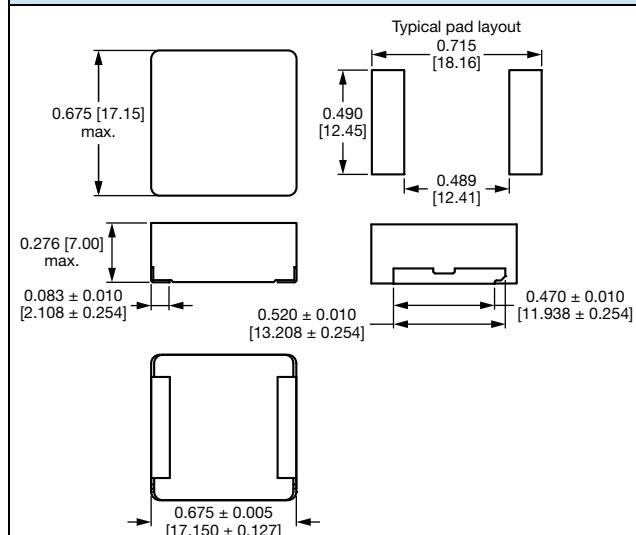
Notes

- 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 L_0 to drop approximately 20 %

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

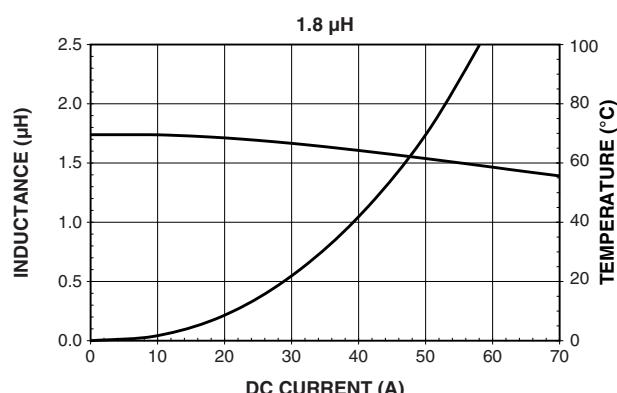
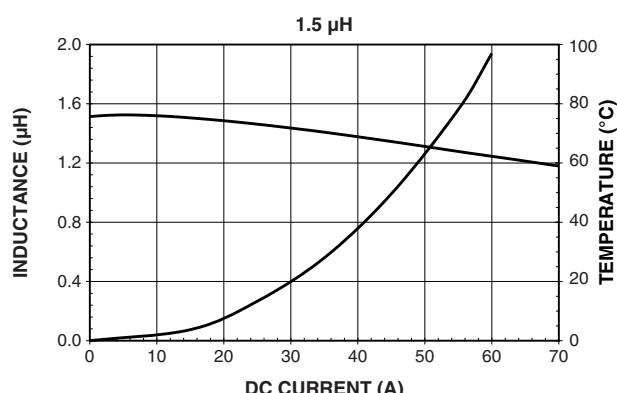
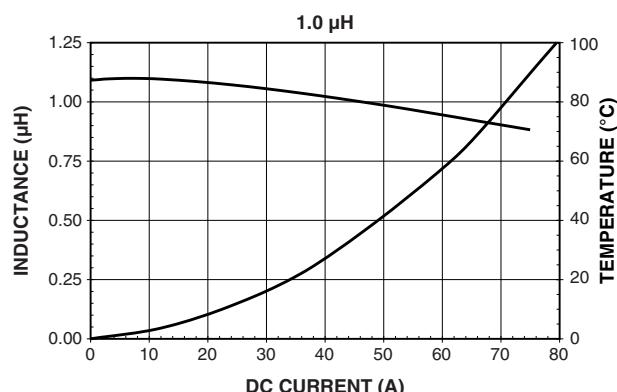
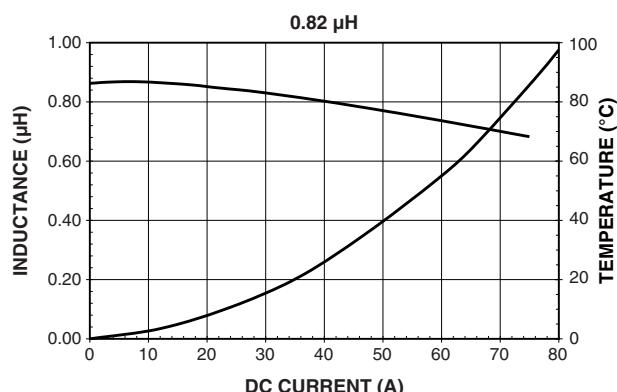
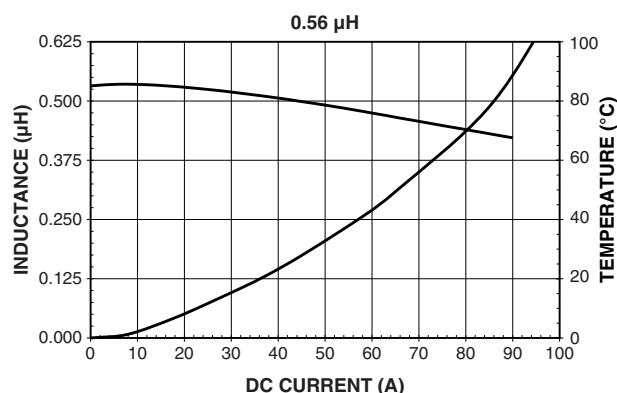
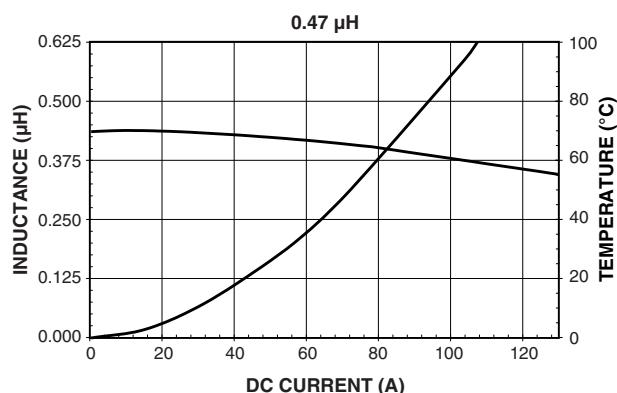
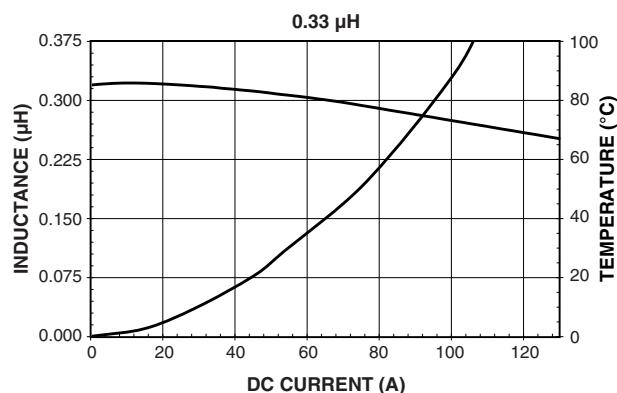
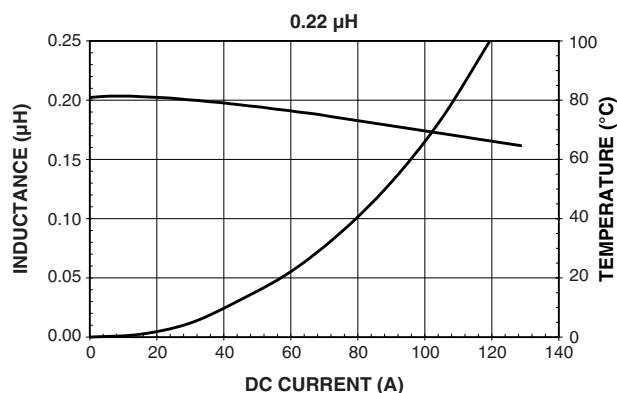
DIMENSIONS in inches [millimeters]

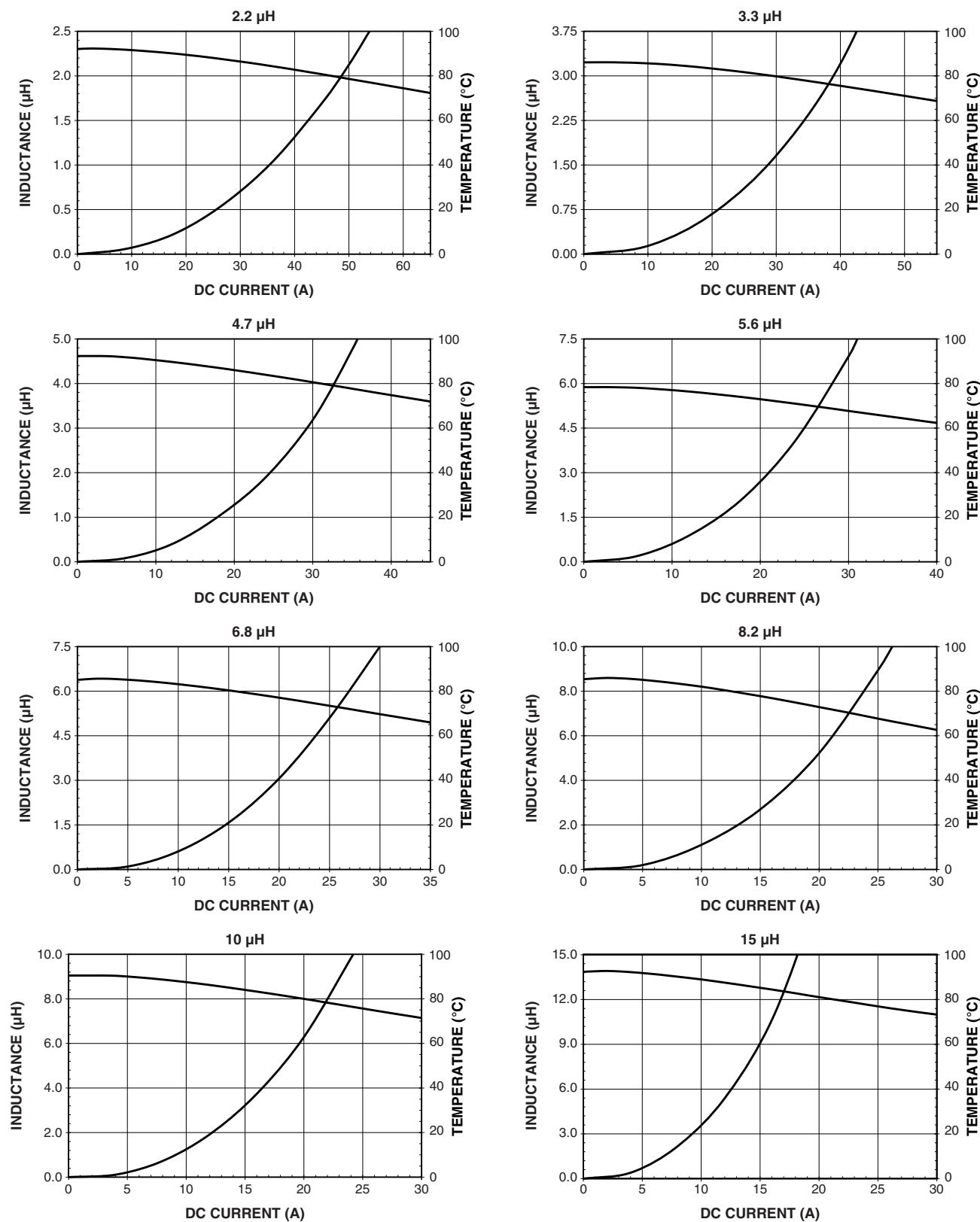


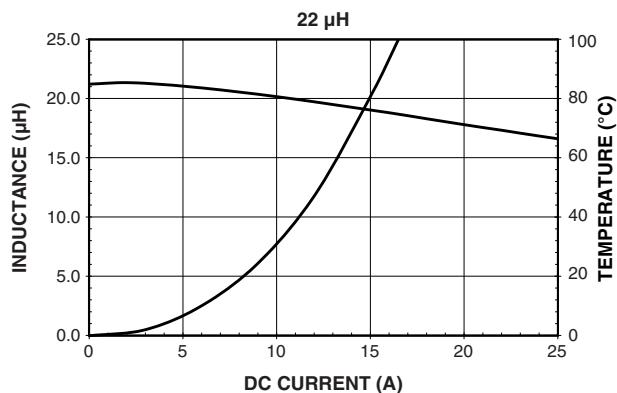
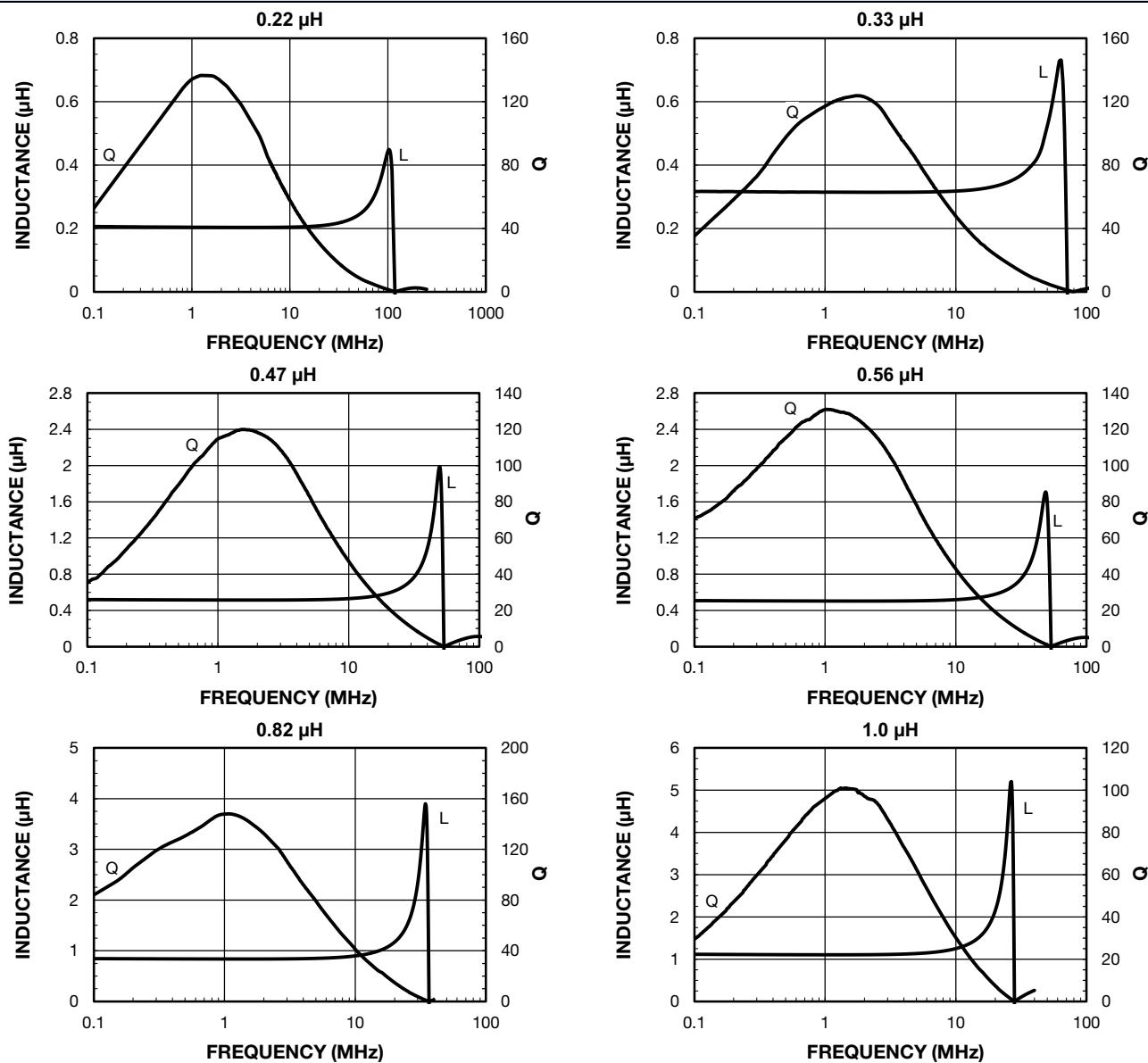
DESCRIPTION				
IHLP-6767GZ-A1	4.7 μ H	± 20 %	ER	e3
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD
GLOBAL PART NUMBER				
I	H	L	P	6 7 6 7 G Z E R 4 R 7 M A 1
PRODUCT FAMILY	SIZE	PACKAGE CODE	INDUCTANCE VALUE	TOL. SERIES

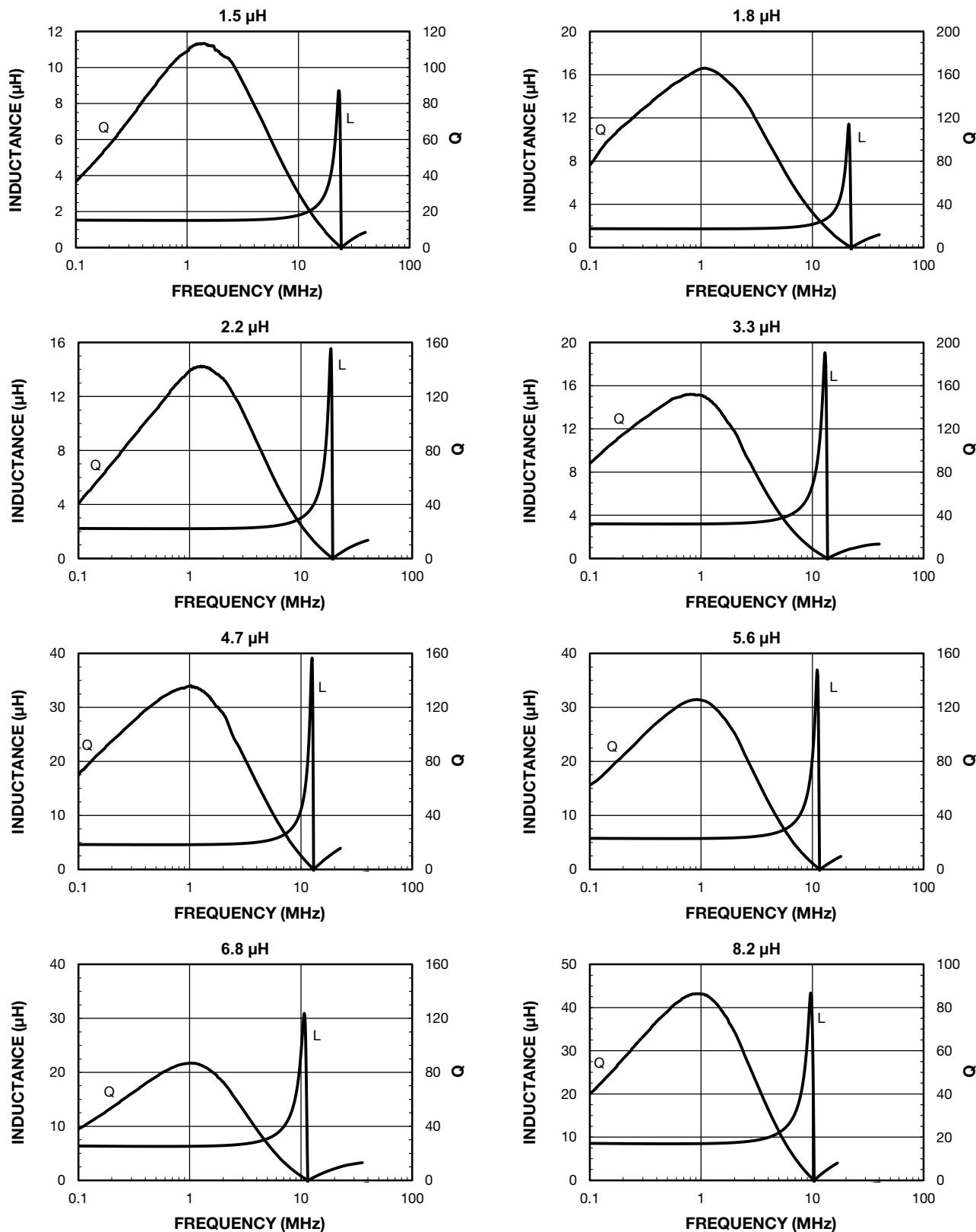
PATENT(S): www.vishay.com/patents

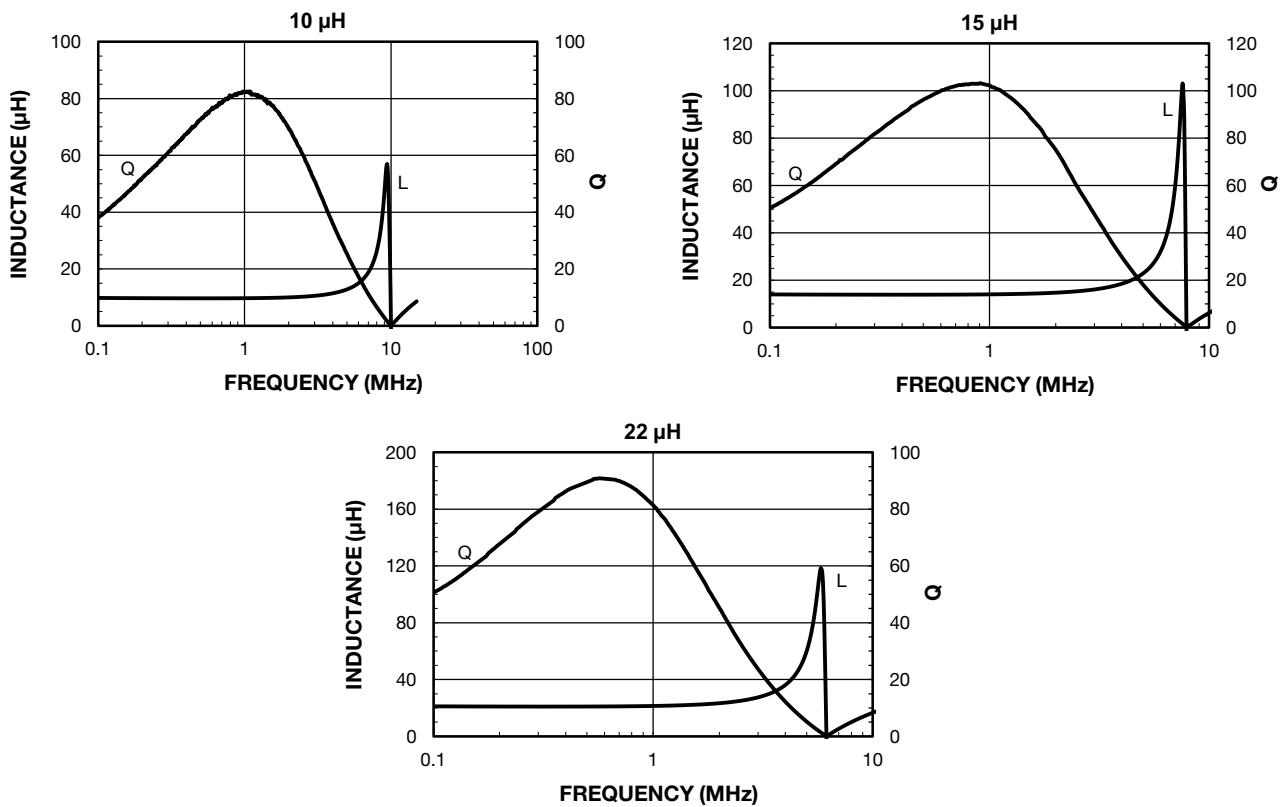
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PERFORMANCE GRAPHS


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PERFORMANCE GRAPHS: INDUCTANCE AND Q VS. FREQUENCY


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