



IHLP® Automotive Inductors, High Temperature (180 °C) Series



DESIGN SUPPORT TOOLS click logo to get started



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⁾	SRF TYP. (MHz)
0.47	3.87	4.14	20.0	14.0	79.6
0.68	5.38	5.76	16.5	17.0	62.8
0.82	6.75	7.22	13.8	16.8	72.9
1.0	7.90	8.45	12.0	13.0	59.1
1.5	12.3	13.2	10.6	11.6	45.9
2.2	17.10	18.30	8.1	10.8	34.3
3.3	26.50	28.40	6.8	8.3	28.3
4.7	35.90	38.40	5.6	5.6	25.5
5.6	42.60	45.60	5.3	4.8	23.0
6.8	53.80	57.60	4.4	4.4	16.0
10	71.90	76.90	4.0	2.9	13.9
15	118.0	127.0	2.9	2.8	11.0
22	163.0	174.0	2.8	2.2	8.76

Notes

- All test data is referenced to 25 °C ambient
- Operating temperature range -55 °C to +180 °C
- The part temperature (ambient + temp. rise) should not exceed 180 °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

- High temperature, up to 180 °C
- Shielded construction
- Excellent DC/DC energy storage up to 1 MHz to 2 MHz. Filter inductor applications up the SRF (see Standard Electrical Specifications table).
- Handles high transient current spikes without saturation
- 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

AUTOMOTIVE GRADE

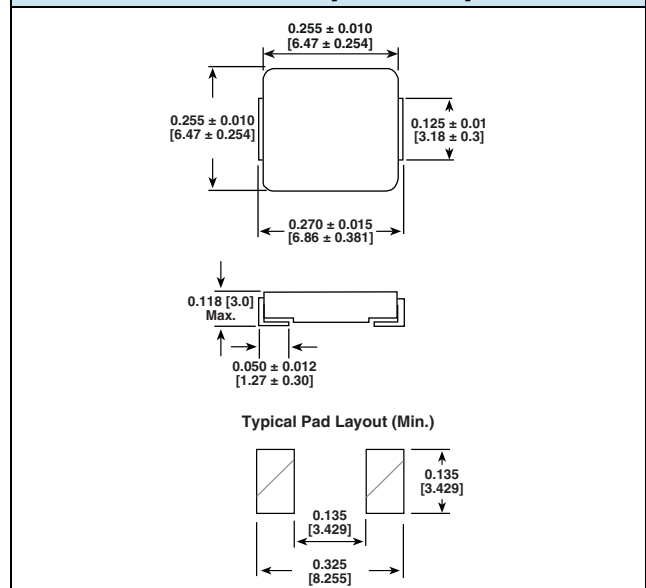


RoHS COMPLIANT
HALOGEN FREE
GREEN (5-2008)

APPLICATIONS

- Engine and transmission control units
- Diesel injection drivers
- Noise suppression for motors: windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- LED drivers

DIMENSIONS in inches [millimeters]



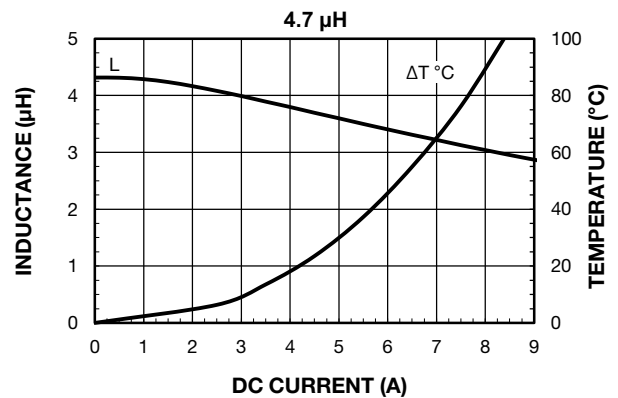
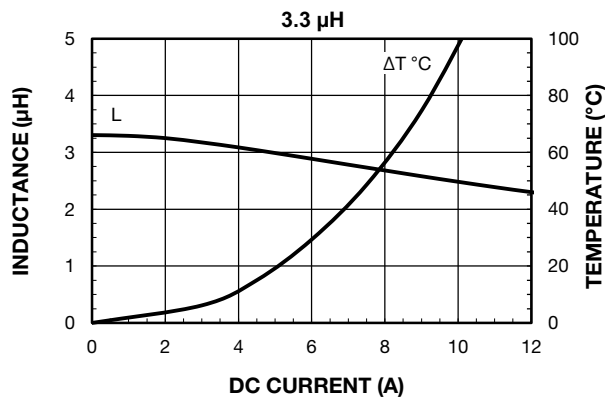
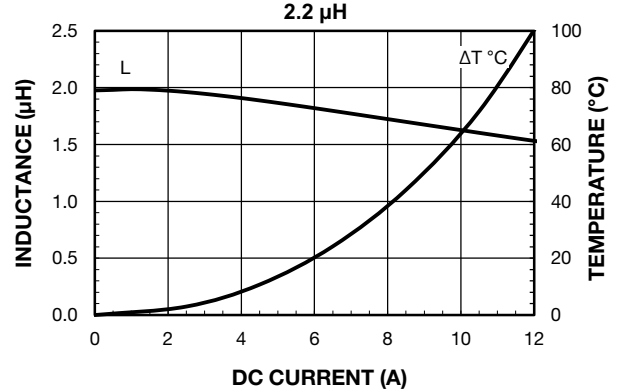
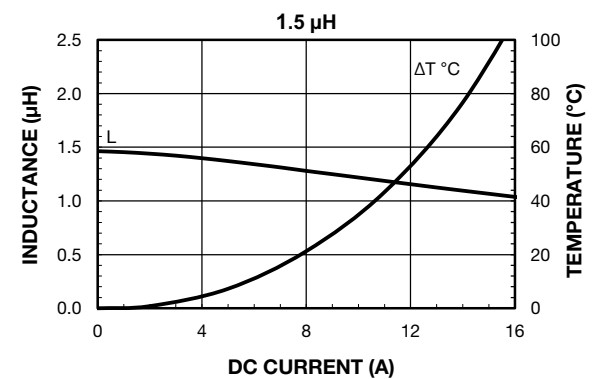
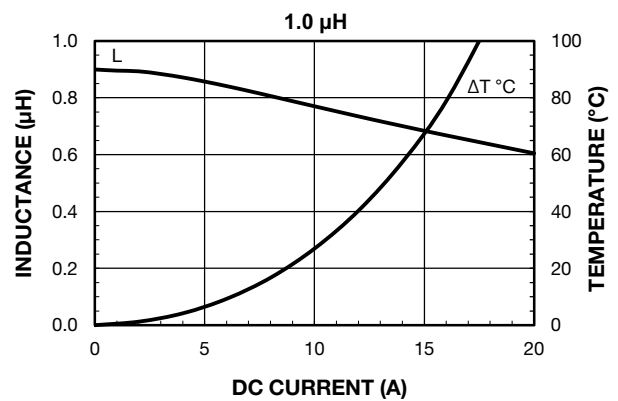
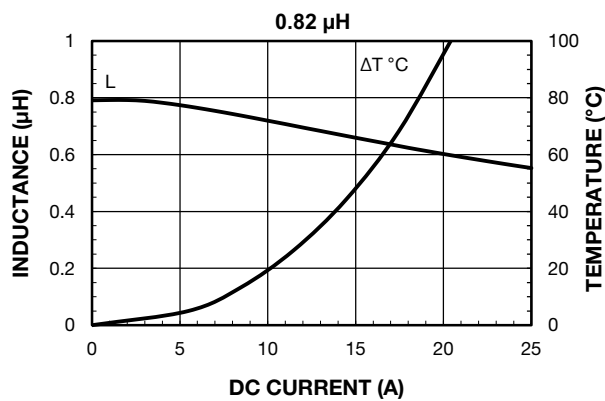
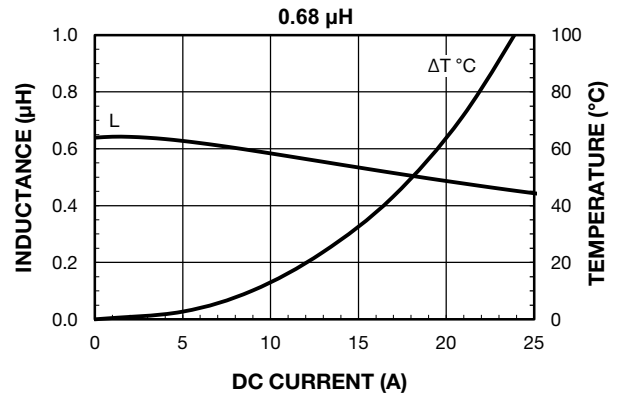
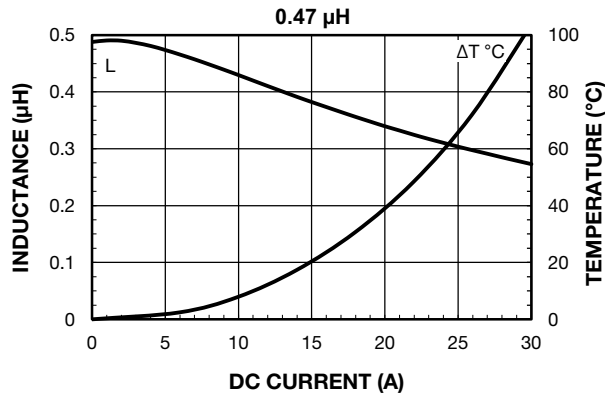
DESCRIPTION				
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD
IHLP-2525CZ-8A	22 µH	± 20 %	ER	e3

GLOBAL PART NUMBER											
I	H	L	P	2	5	2	5	C	Z	E R 2 2 0 M 8 A	
MODEL				SIZE				PACKAGE CODE	INDUCTANCE VALUE	TOL.	SERIES

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

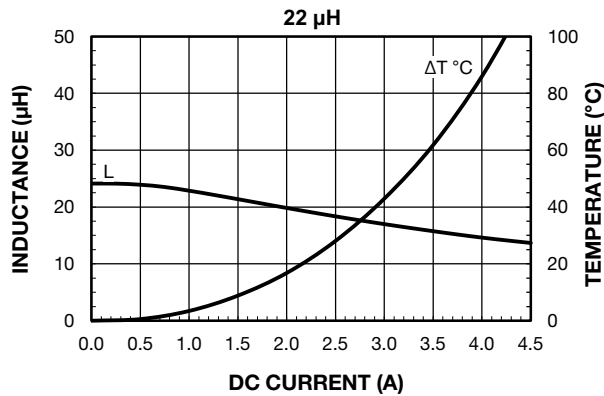
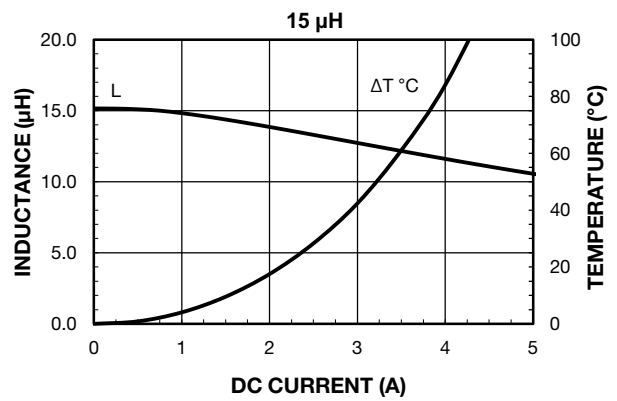
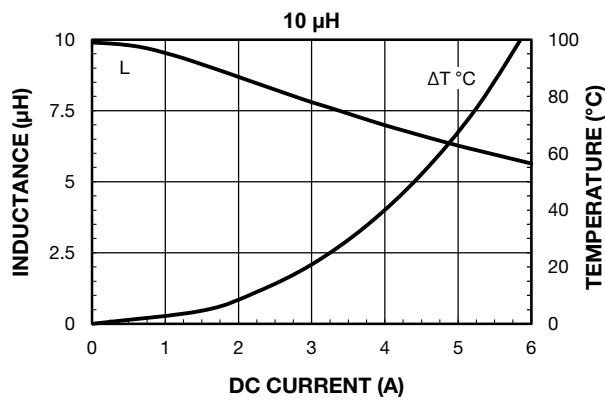
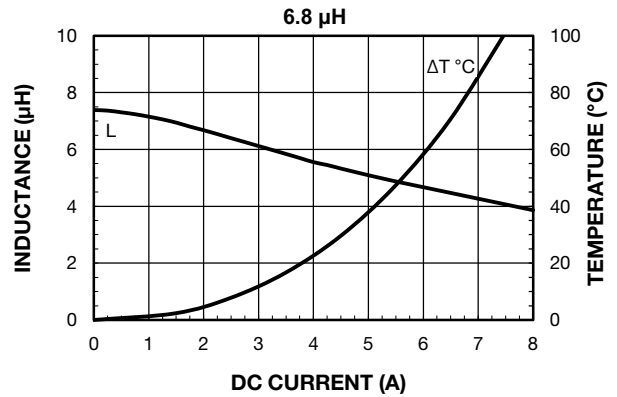
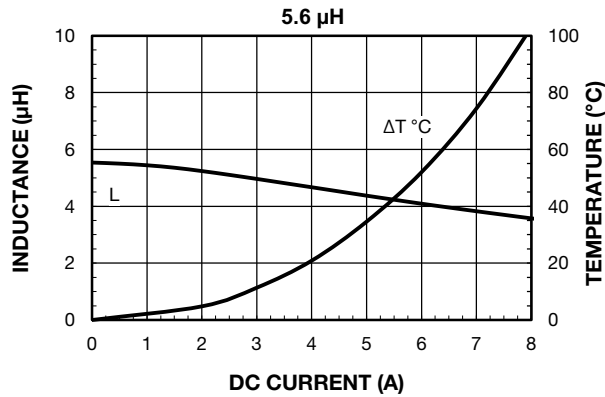
This Vishay product is protected by one or more United States and international patents.

PERFORMANCE GRAPHS



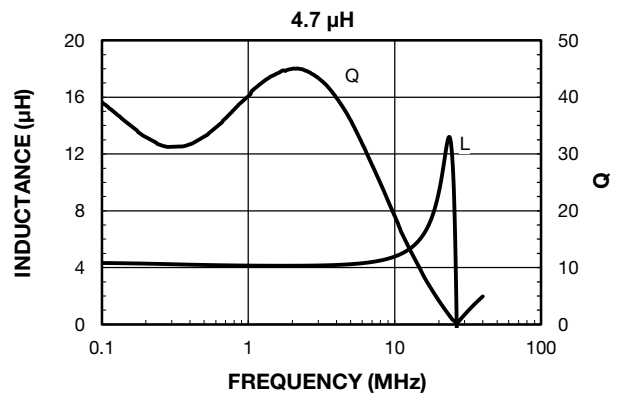
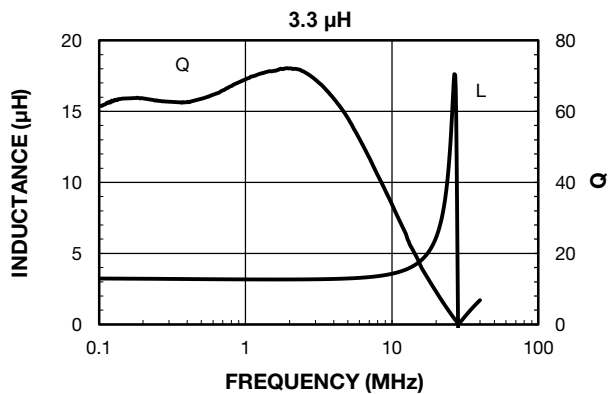
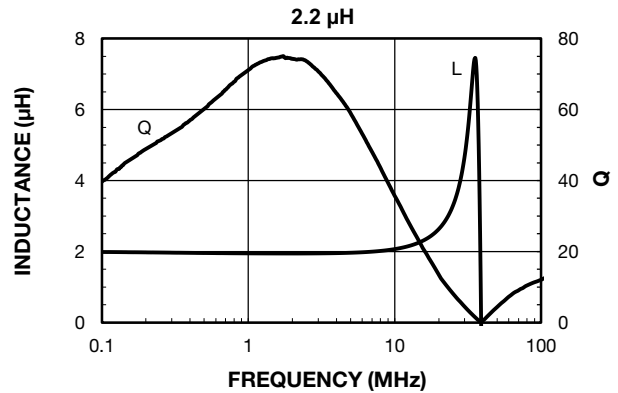
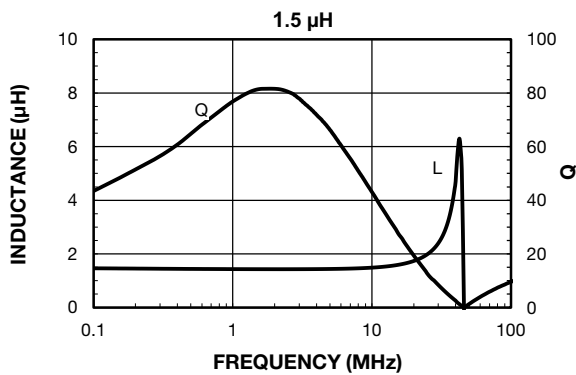
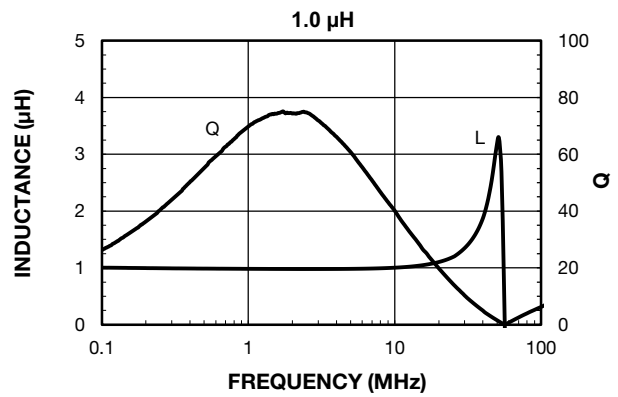
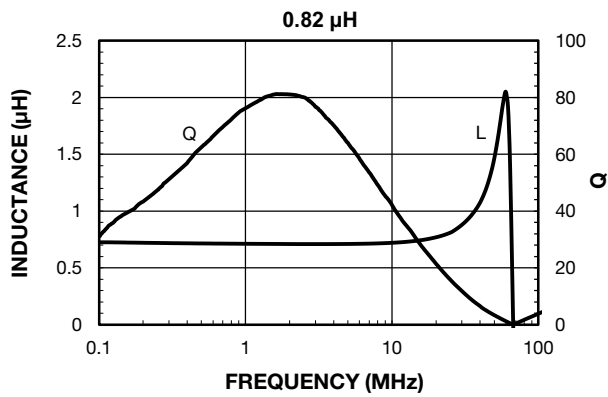
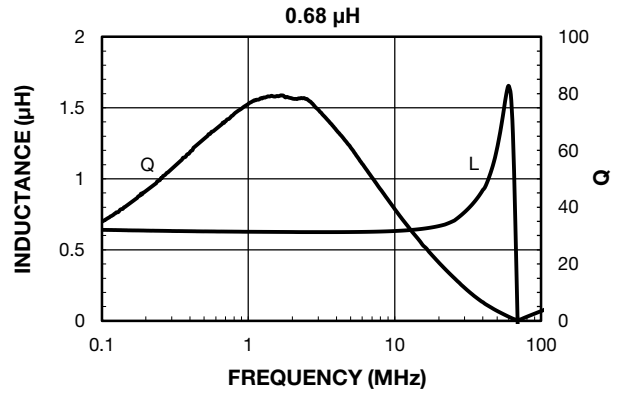
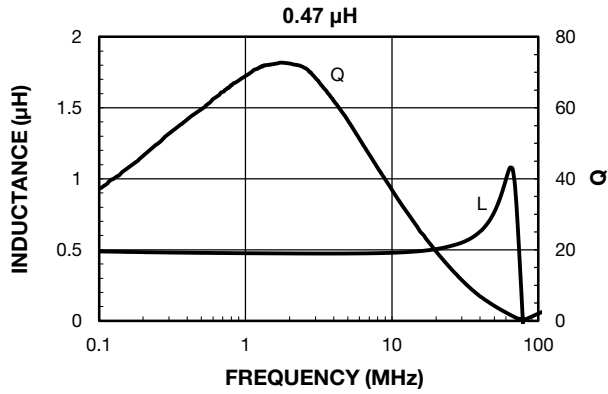


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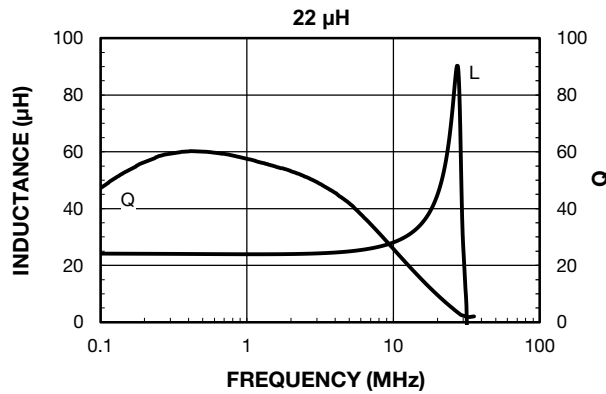
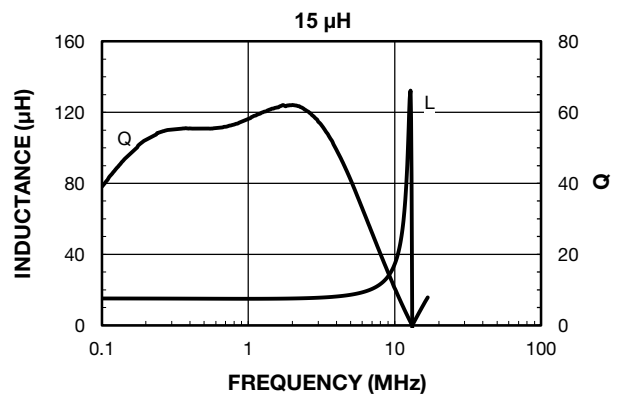
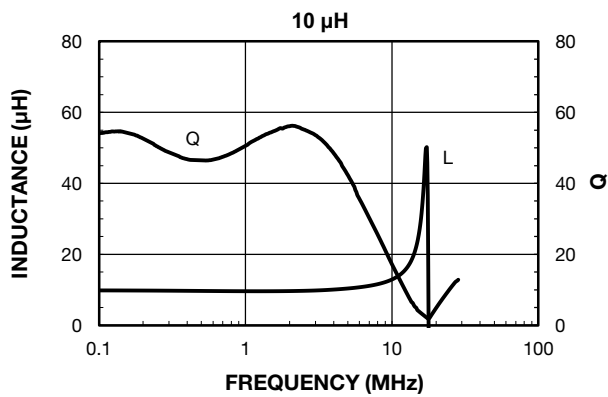
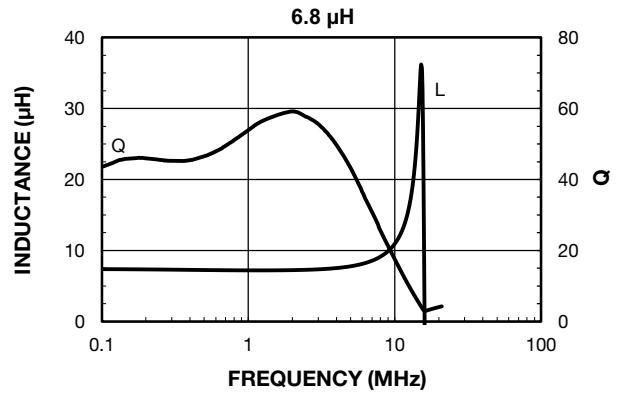
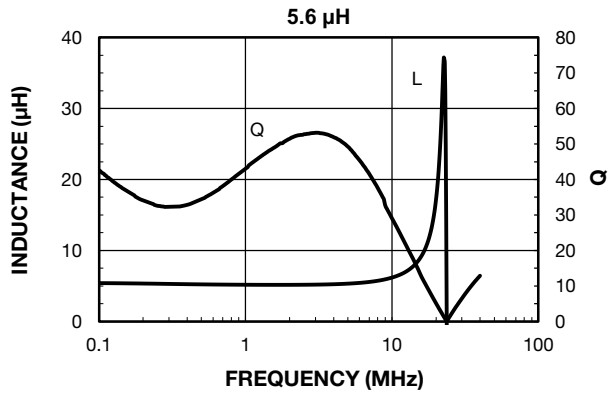




PERFORMANCE GRAPHS: INDUCTANCE AND Q VS. FREQUENCY



PERFORMANCE GRAPHS: INDUCTANCE AND Q VS. FREQUENCY





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