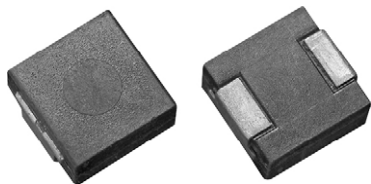


Tin/Lead, Molded, Low Profile, Power Inductors



ADDITIONAL RESOURCES



STANDARD ELECTRICAL SPECIFICATIONS

L_0 INDUCTANCE $\pm 20\%$ 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⁾	SRF TYP. (MHz)
0.10	1.5	1.7	32.5	60	400
0.15	1.9	2.5	26	52	180
0.20	2.4	3.0	24	41	150
0.22	2.5	2.8	23	40	126
0.33	3.5	3.9	20	30	100
0.47	4	4.2	17.5	26	75
0.68	5	5.5	15.5	25	62
0.82	6.7	8	13	24	60
1.0	9	10	11	22	55
1.5	14	15	9	18	40
2.2	18	20	8	14	38
3.3	28	30	6	13.5	30
4.7	37	40	5.5	10	25
6.8	54	60	4.5	8	21
8.2	64	68	4	7.5	17
10	102	105	3	7.0	16

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 %

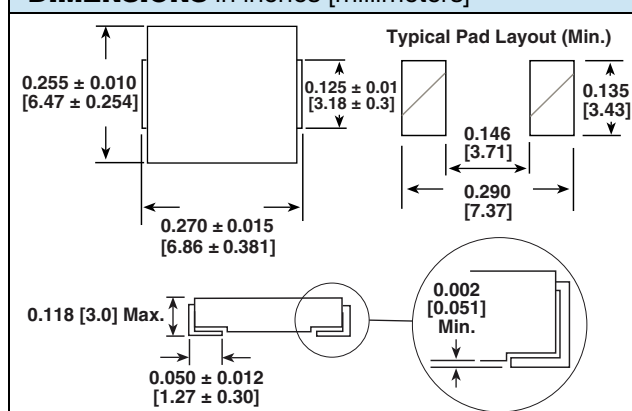
FEATURES

- Lowest molded height (3.0 mm) in this package footprint
- Shielded construction
- Excellent DC/DC energy storage up to 5 MHz. Filter inductor applications up to SRF (see "Standard Electrical Specifications" table)
- Lowest DCR/ μ H, 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
- Encapsulated body offers improved environmental protection and moisture resistance
- Higher dielectric withstanding voltage vs IHLP
- Flame retardant encapsulant (UL 94V-0)
- Corrosion resistant package
- IHLP design. PATENT(S): www.vishay.com/patents

APPLICATIONS

- PDA / notebook / desktop / server applications
- High current POL converters
- Low profile, high current power supplies
- Battery powered devices
- DC/DC converters in distributed power systems
- DC/DC converter for field programmable gate array (FPGA)
- Harsh environments including moisture, chemicals and salt spray

DIMENSIONS in inches [millimeters]



DESCRIPTION

IHLM-2525CZ-L1	1.0 μH	$\pm 20\%$	RZ
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE

GLOBAL PART NUMBER

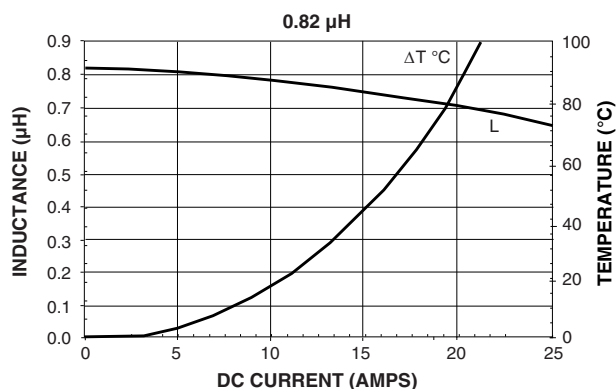
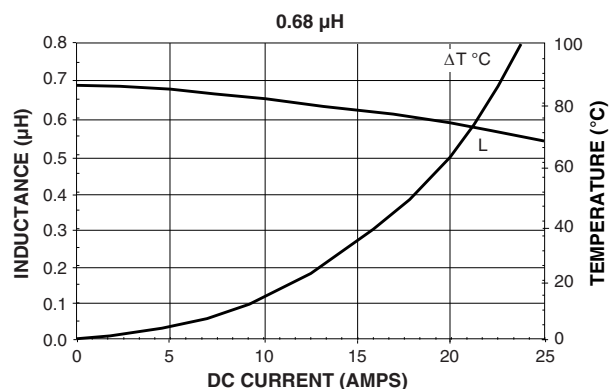
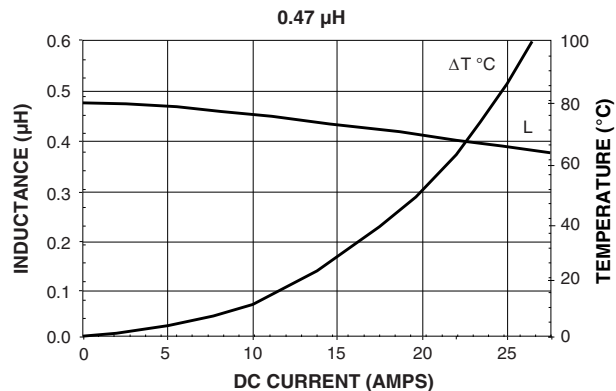
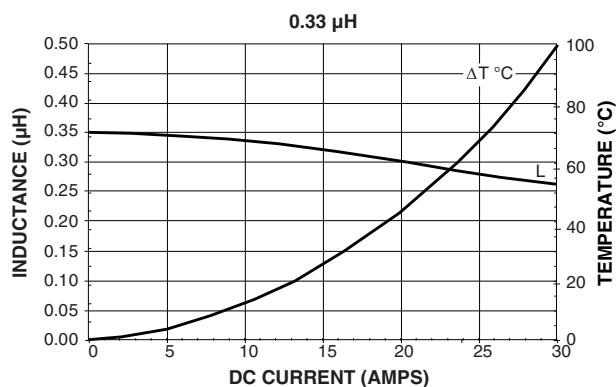
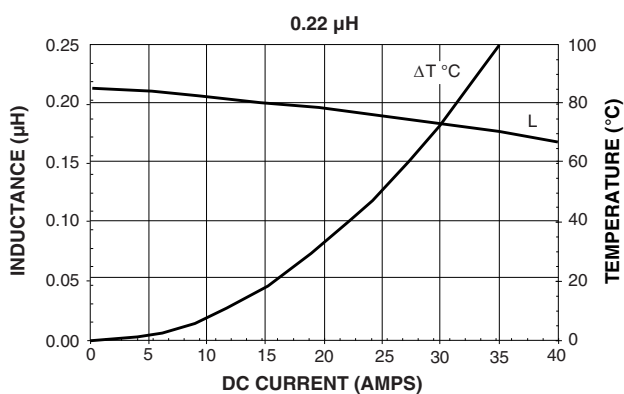
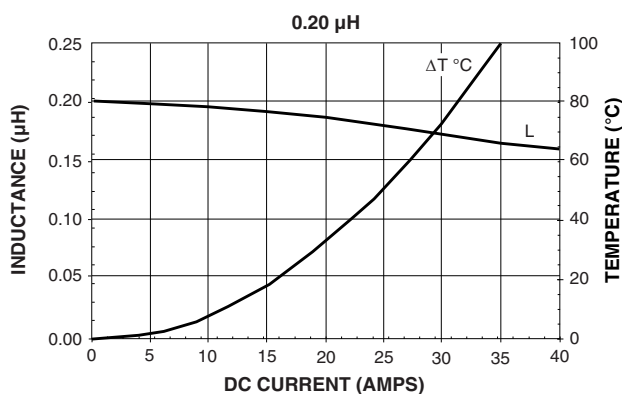
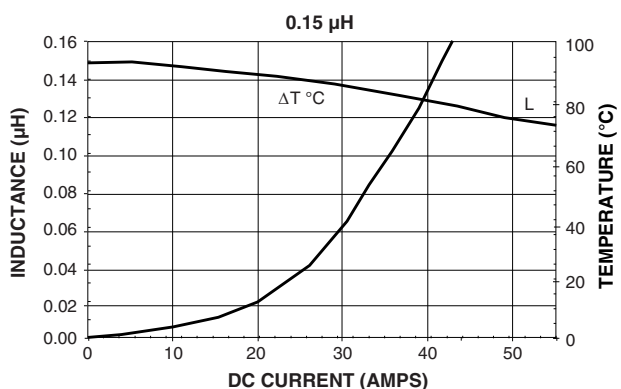
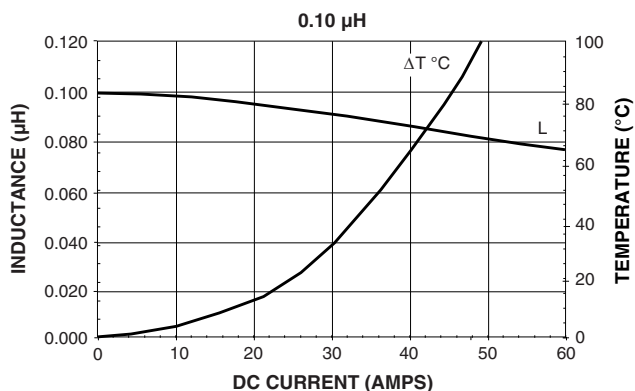
I	H	L	M	2	5	2	5	C	Z	R	Z	1	R	0	M	L	1
MODEL				SIZE						PACKAGE CODE		INDUCTANCE VALUE			TOL.	SERIES	

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

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

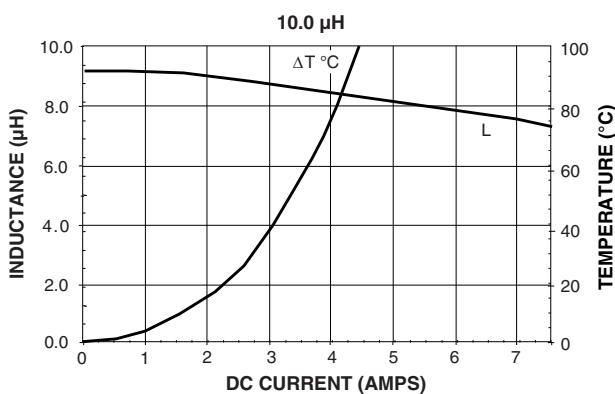
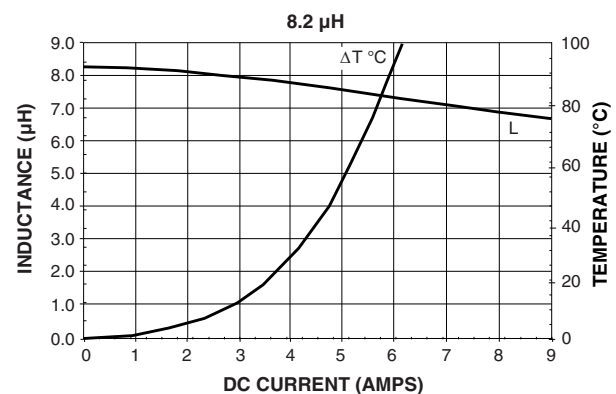
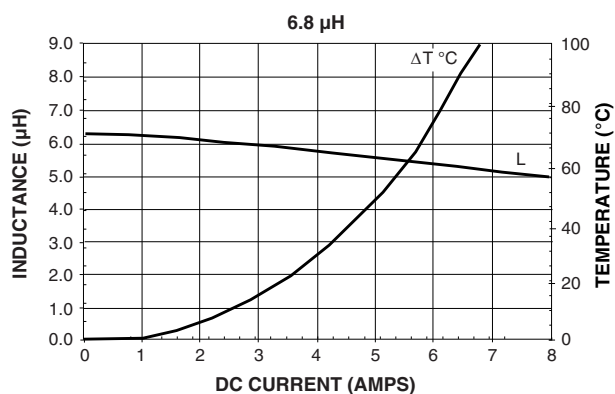
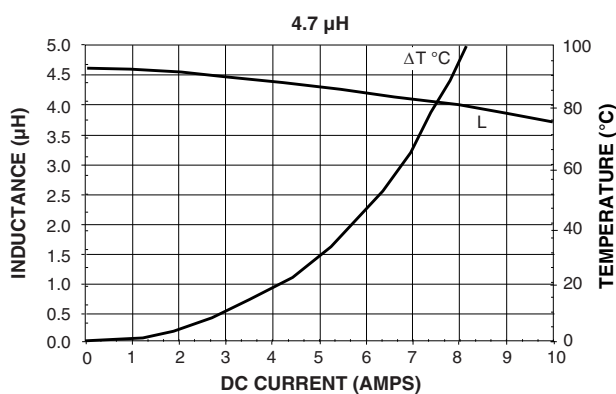
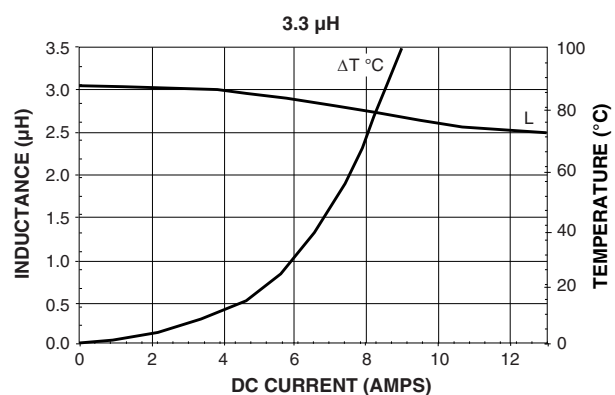
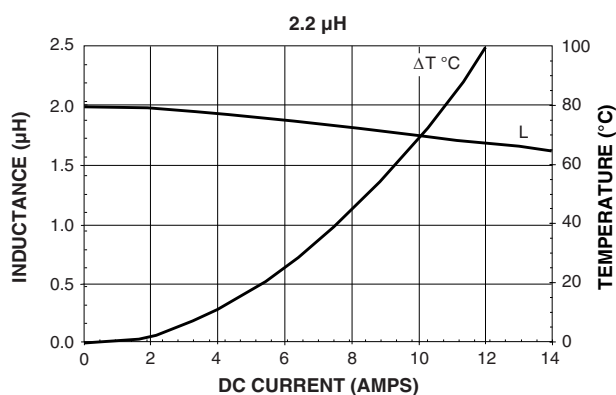
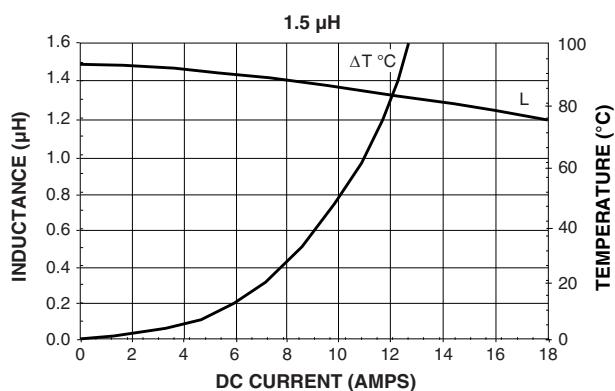
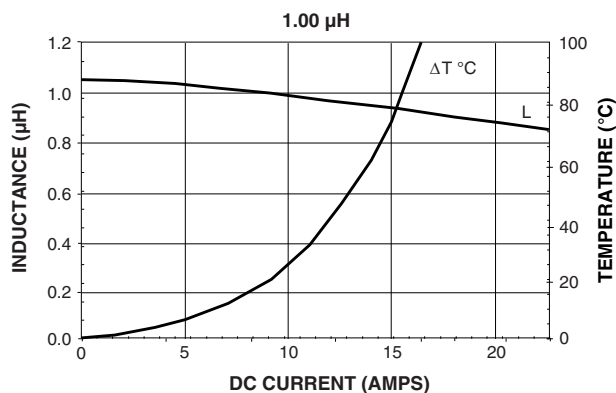


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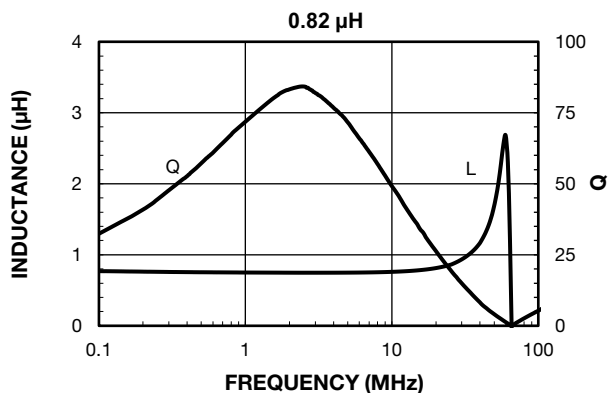
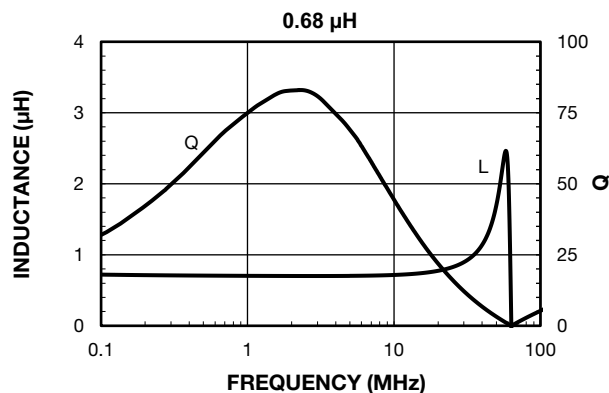
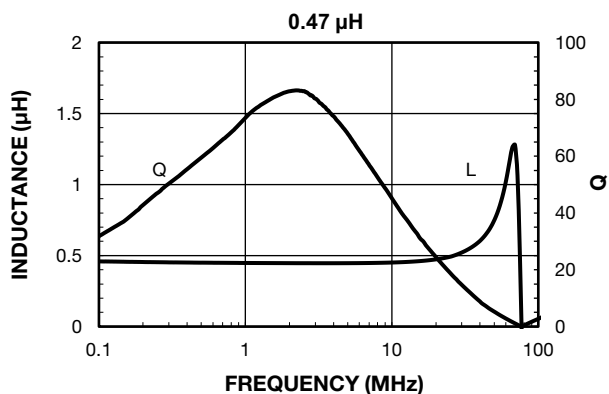
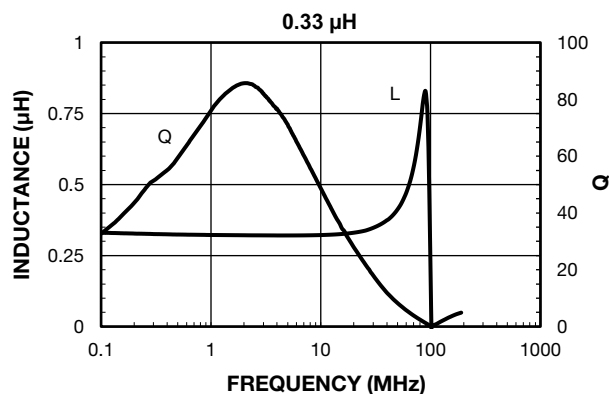
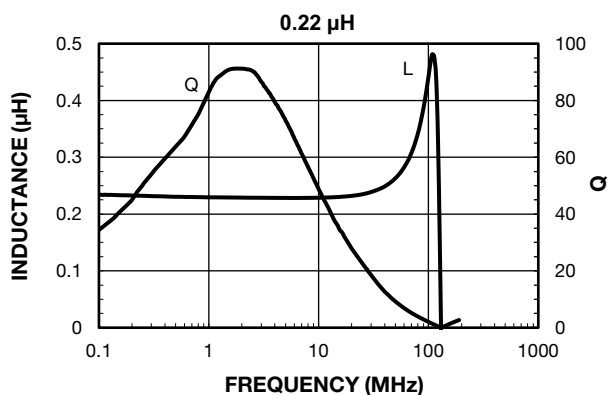
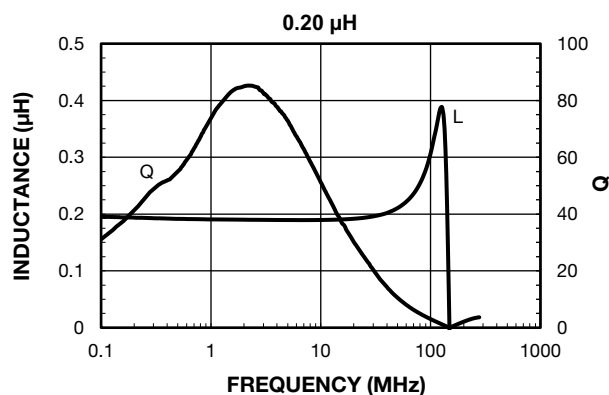
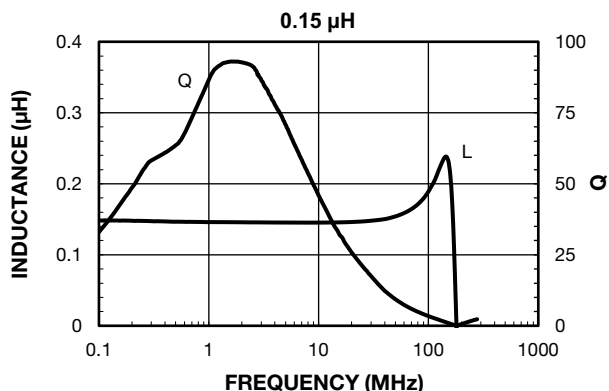
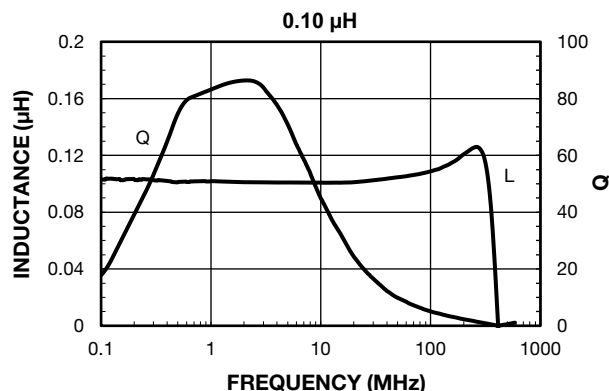


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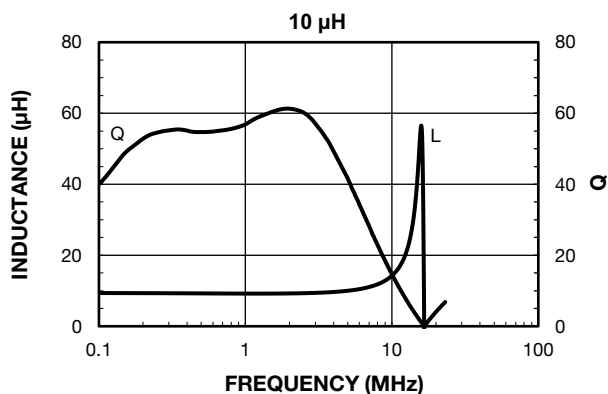
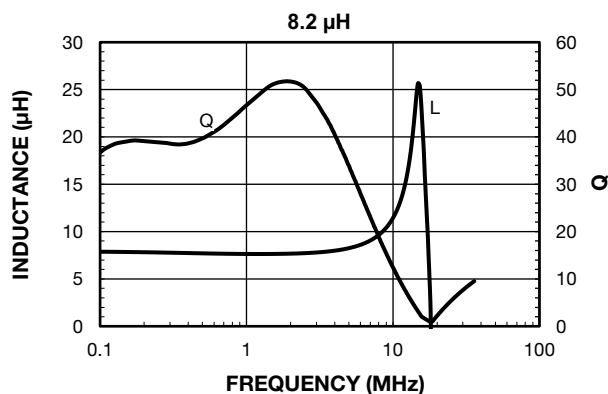
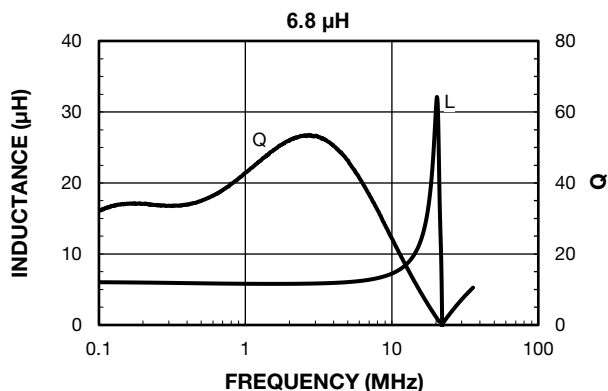
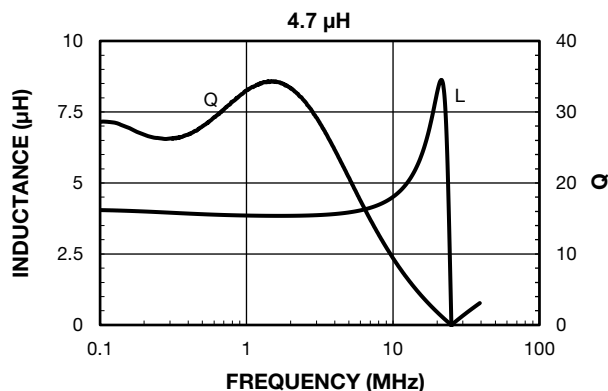
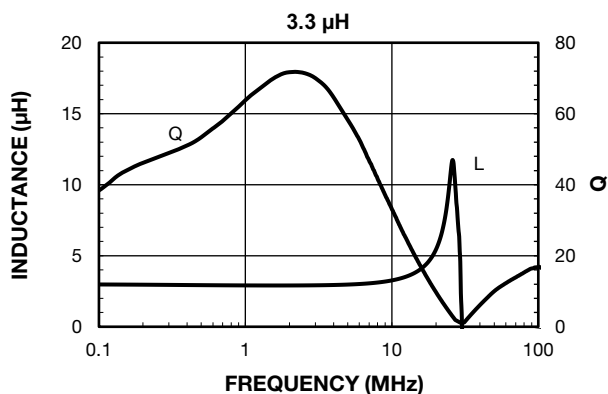
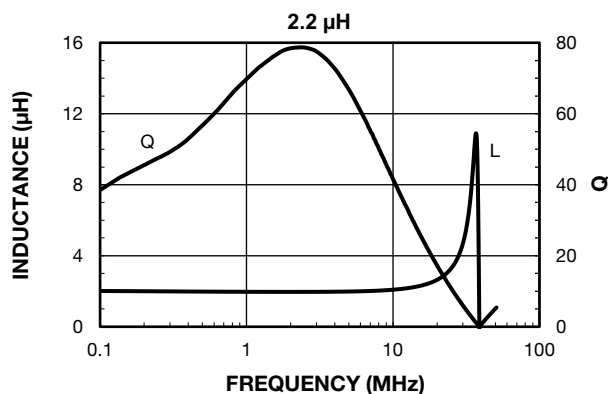
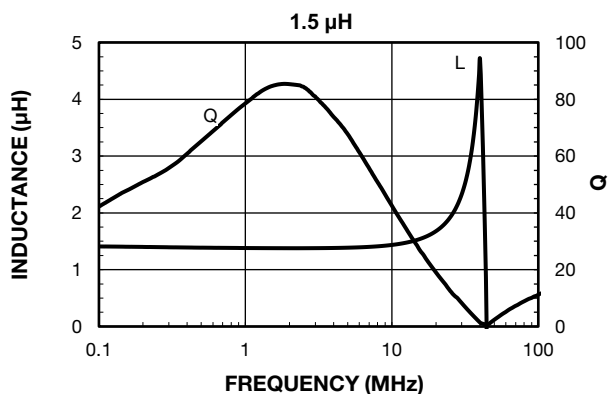
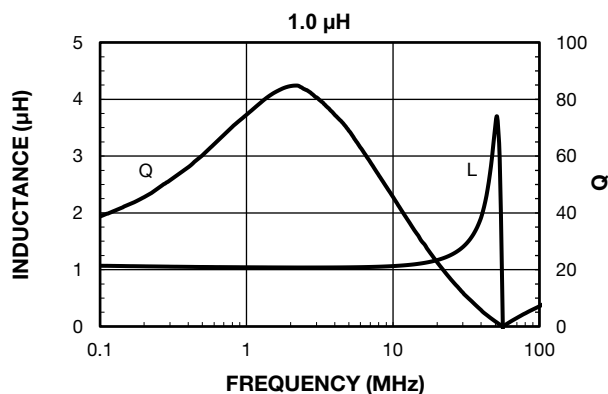


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PERFORMANCE GRAPHS: INDUCTANCE AND Q VS. FREQUENCY





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