High Current Through-Hole Inductor, High Temperature Series



FEATURES

- Shielded construction
- Excellent DC/DC energy storage up to 1 MHz to 2 MHz
- Filter inductor applications up to SRF (see "Standard Electrical Specifications" table)
- Handles high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction
- High temperature, up to 155 °C
- AEC-Q200 qualified
- PATENT(S): www.vishay.com/patents
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

AUTOMOTIVE GRADE

Pb-free

RoHS COMPLIANT

HALOGEN FREE

GREEN (5-2008)

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

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	0.26	0.30	125	112	57.25
1.0	0.43	0.50	90	65	29.30
2.2	0.70	0.77	72	64	17.25
3.3	1.40	1.50	57	62	15.8
4.7	1.70	1.82	50	52	11.36
6.8	1.84	1.97	44.5	44	9.35
8.2	2.82	3.00	34.5	32	9.24
10	3.20	3.64	33	30	7.76
15	4.45	4.76	26	20	6.17
22	6.39	6.83	21.0	23	5.61
33	10.6	11.3	15.9	18	4.20
47	13.2	14.6	14.0	16.2	2.99
68	25.6	27.4	10.5	9.6	2.95
100	30.7	32.2	8.8	6.0	2.04

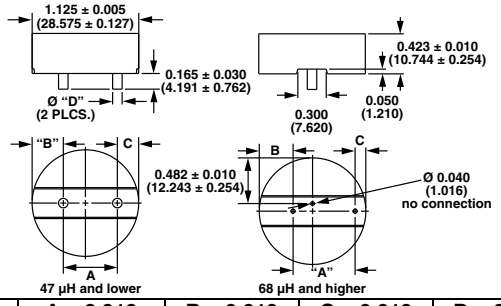
Notes

- All test data is referenced to 25 °C ambient
- Operating temperature range -55 °C to +155 °C
- The part temperature (ambient + temp. rise) should not exceed 155 °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

(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 %

DIMENSIONS in inches



VALUE	A ± 0.010 (± 0.254)	B ± 0.010 (± 0.254)	C ± 0.010 (± 0.254)	D ± 0.010 (± 0.254)
0.47 µH	0.579 (14.707)	0.273 (6.934)	0.273 (6.934)	0.130 (3.302)
1.0 µH	0.569 (14.453)	0.329 (8.357)	0.225 (5.715)	0.100 (2.540)
2.2 µH	0.679 (17.247)	0.273 (6.934)	0.169 (4.293)	0.100 (2.540)
3.3 µH	0.660 (16.764)	0.274 (6.960)	0.189 (4.801)	0.079 (2.007)
4.7 µH	0.660 (16.764)	0.274 (6.960)	0.189 (4.801)	0.079 (2.007)
6.8 µH	0.720 (18.288)	0.244 (6.198)	0.159 (4.039)	0.079 (2.007)
8.2 µH	0.702 (17.831)	0.248 (6.299)	0.172 (4.369)	0.071 (1.803)
10 µH	0.702 (17.831)	0.248 (6.299)	0.172 (4.369)	0.071 (1.803)
15 µH	0.649 (16.485)	0.351 (8.915)	0.124 (3.150)	0.071 (1.803)
22 µH	0.693 (17.602)	0.318 (8.077)	0.113 (2.870)	0.063 (1.600)
33 µH	0.702 (17.831)	0.292 (7.417)	0.128 (3.251)	0.050 (1.270)
47 µH	0.702 (17.831)	0.292 (7.417)	0.128 (3.251)	0.050 (1.270)
68 µH	0.653 (16.586)	0.357 (9.068)	0.113 (2.87)	0.044 (1.118)
100 µH	0.653 (16.586)	0.357 (9.068)	0.113 (2.87)	0.044 (1.118)

DESCRIPTION

IHTH-1125KZ-5A	4.7 µH	± 20 %
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE

GLOBAL PART NUMBER

I	H	T	H	1	1	2	5	K	Z	E	B	4	R	7	M	5	A
MODEL				SIZE						PACKAGE CODE		INDUCTANCE VALUE			INDUCT. TOL.	SERIES	

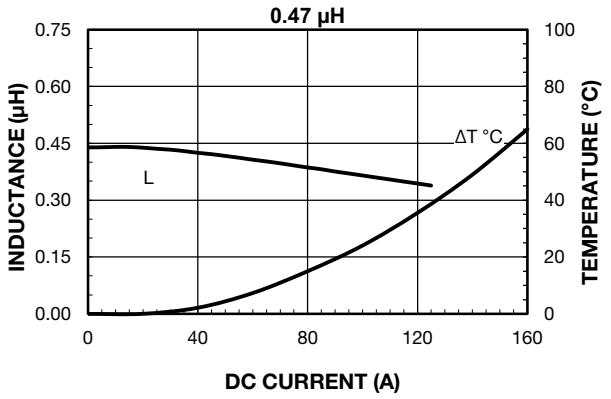
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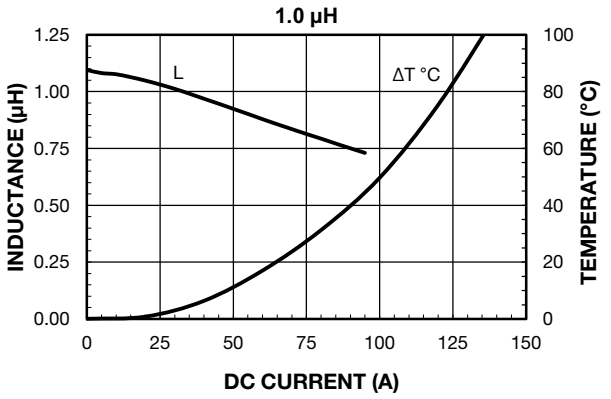
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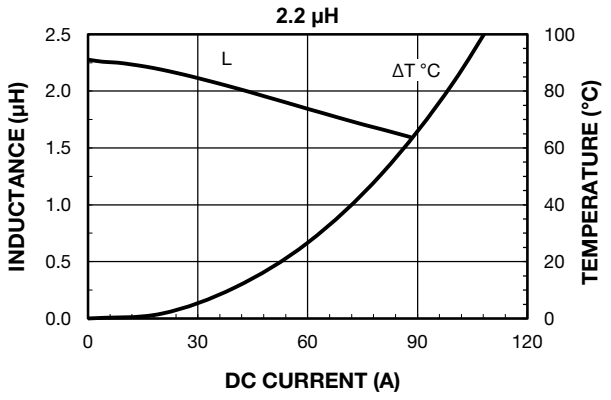
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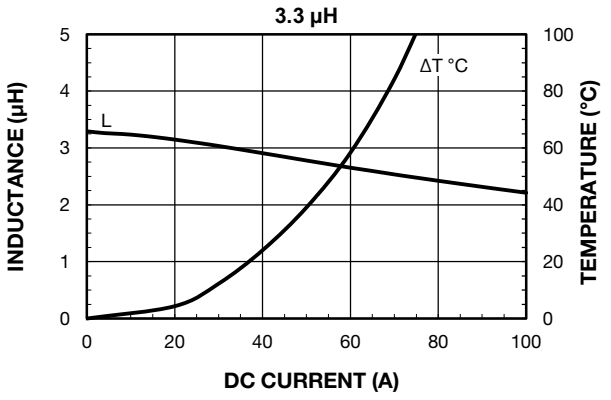
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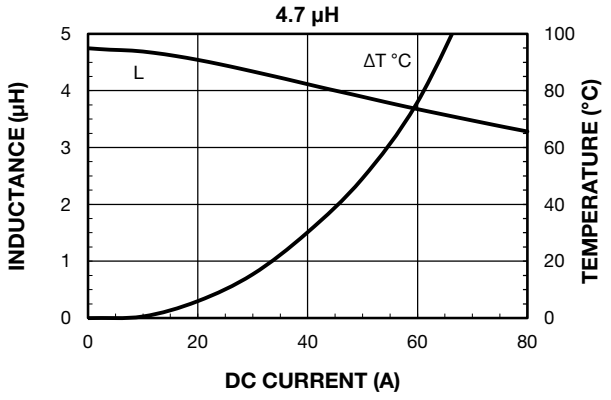
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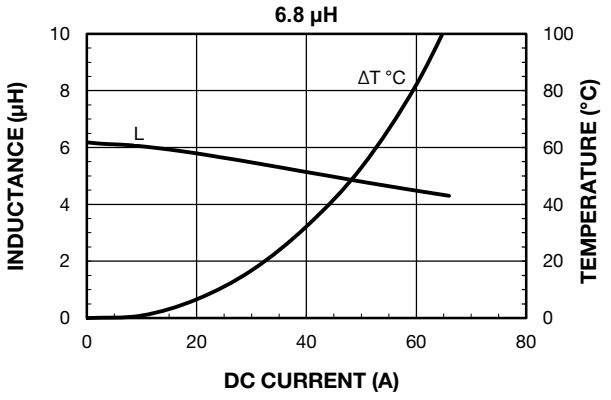


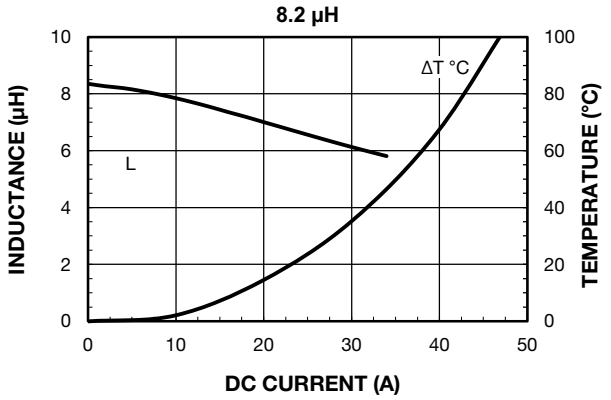


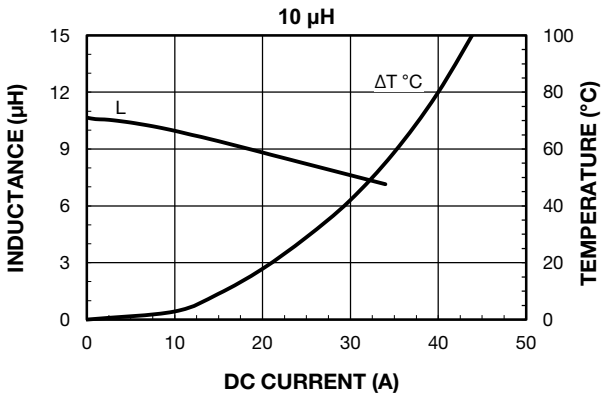






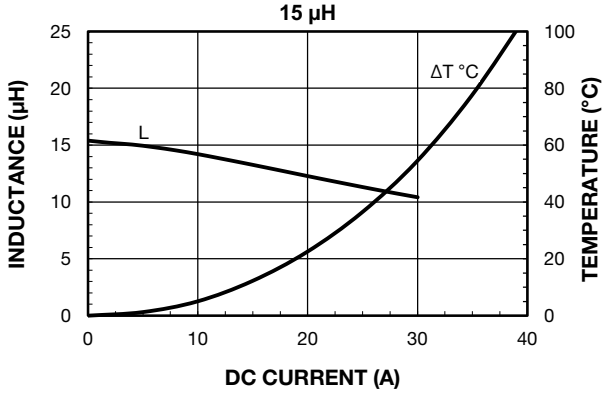


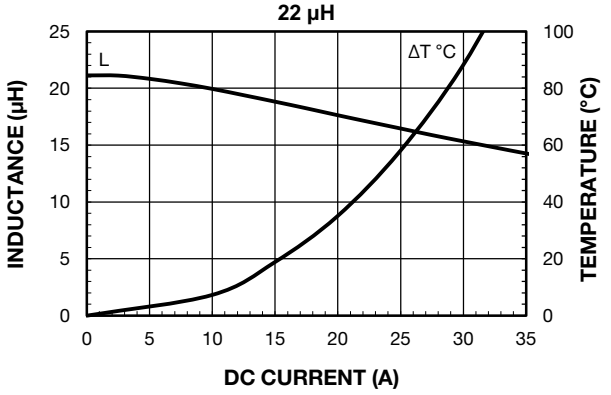


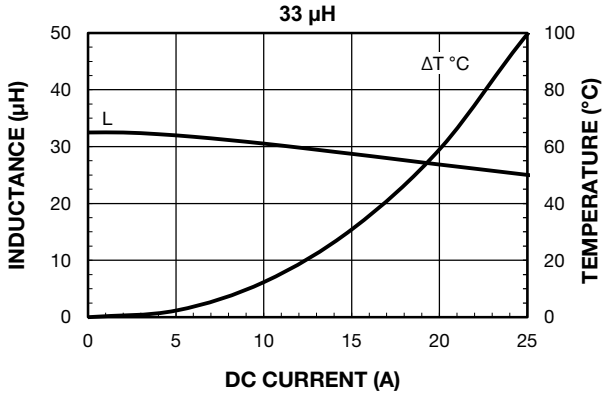


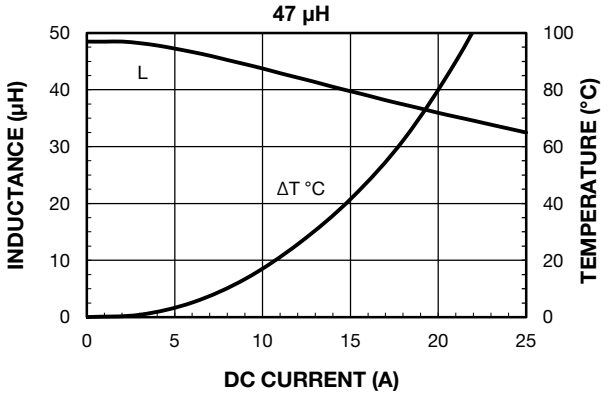
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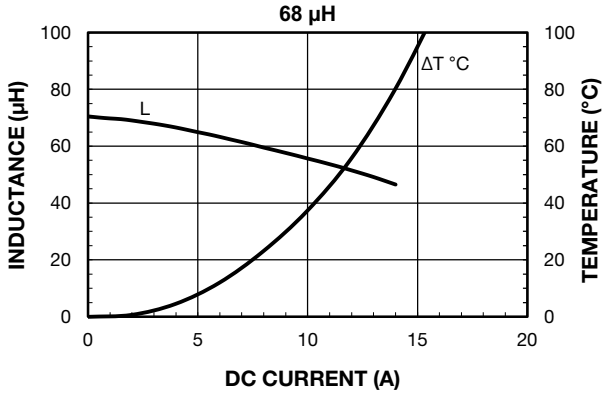
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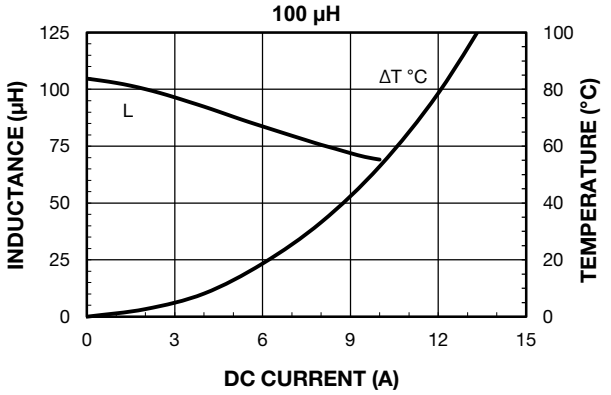








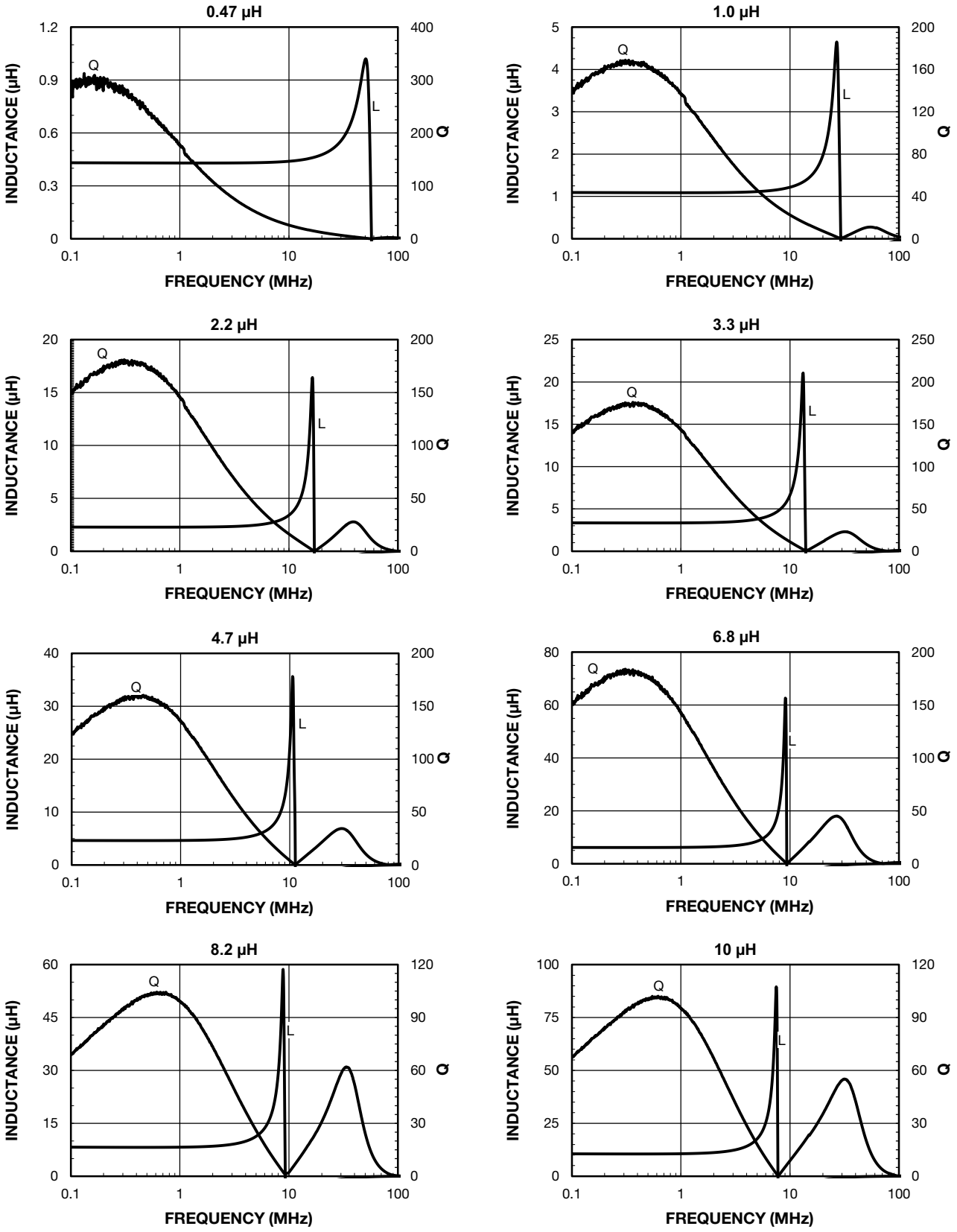




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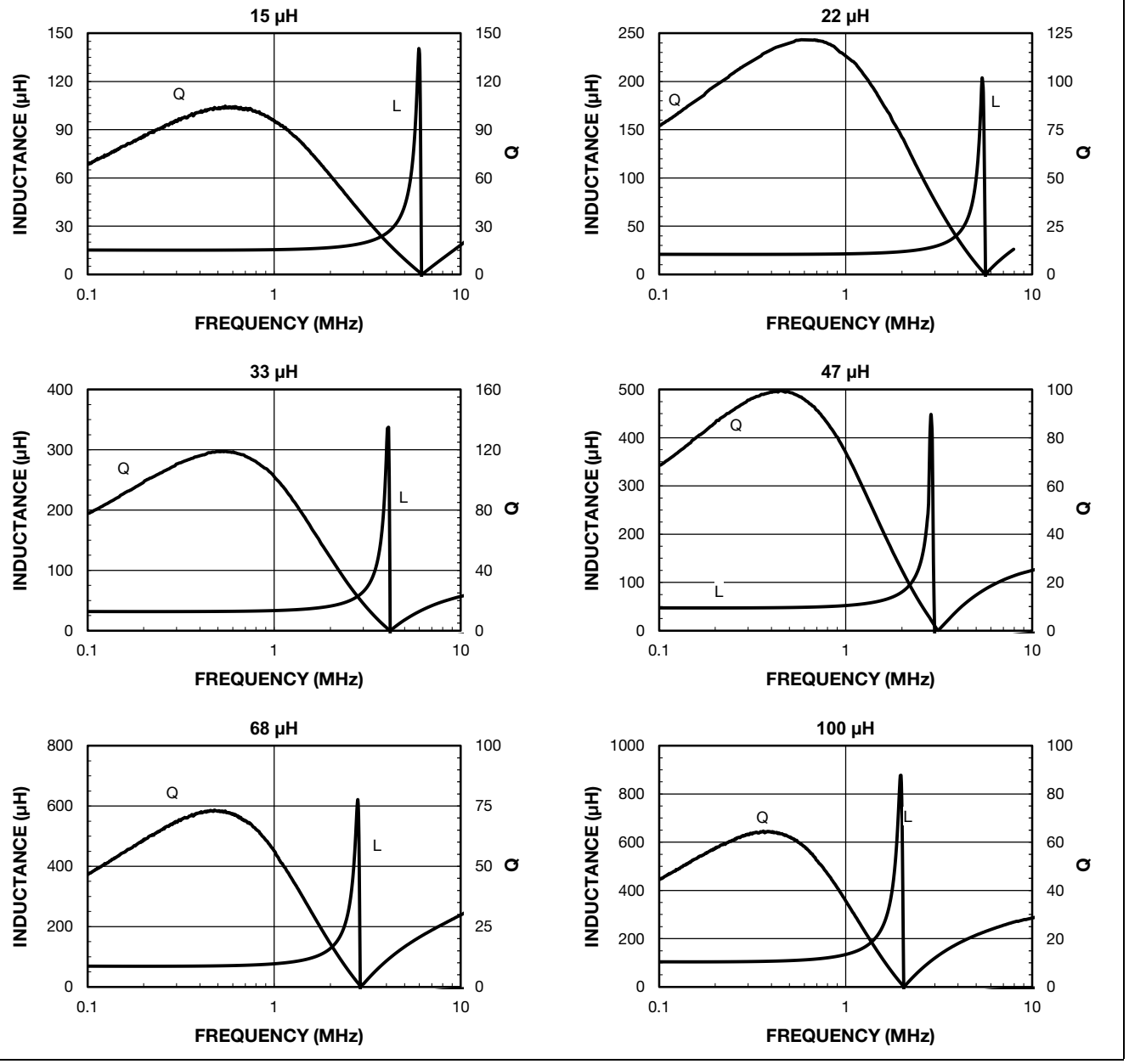
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INTERACTIVE 3D MODEL (1.0 µH)

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INTERACTIVE 3D MODEL (2.2 µH)

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INTERACTIVE 3D MODEL (3.3 µH)

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INTERACTIVE 3D MODEL (4.7 µH)

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INTERACTIVE 3D MODEL (6.8 µH)

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INTERACTIVE 3D MODEL (8.2 µH)

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INTERACTIVE 3D MODEL (10 µH)

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INTERACTIVE 3D MODEL (15 µH)

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INTERACTIVE 3D MODEL (22 µH)

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INTERACTIVE 3D MODEL (33 µH)

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INTERACTIVE 3D MODEL (47 µH)

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