IHLP® Commercial Inductors, High Temperature (155 °C) Series



LINKS TO ADDITIONAL RESOURCES

Product Page | 3D Models | Models | Calculators

FEATURES

- High temperature, up to 155 °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
- IHLP design; PATENT(S): www.vishay.com/patents
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

Pb-free

RoHS COMPLIANT

HALOGEN FREE GREEN (5-2008)

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)

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)
0.33	3.25	3.48	22.0	16.0	112
0.47	3.87	4.14	20.0	14.0	82.4
0.68	5.38	5.76	16.5	17.0	56.1
0.82	6.75	7.22	13.8	16.8	68.6
1.0	7.90	8.45	12.0	13.0	53.2
1.5	12.3	13.2	10.6	11.6	45.9
2.2	17.10	18.30	8.1	10.8	31.2
3.3	26.50	28.40	6.8	8.3	28.6
4.7	35.90	38.40	5.6	5.6	25.5
5.6	42.60	45.60	5.3	4.8	22.8
6.8	53.80	57.60	4.4	4.4	19.6
10	71.90	76.90	4.0	2.9	14.0
15	98.9	105.9	3.7	2.8	10.4
22	163.0	174.0	2.8	2.2	8.3

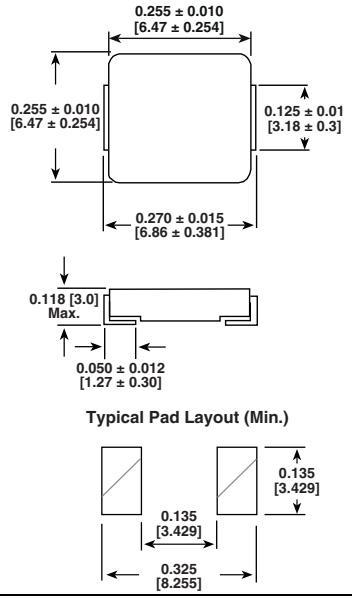
Notes

- 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
- 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 %

DIMENSIONS in inches [millimeters]



DESCRIPTION

IHLP-2525CZ-51	22 µH	± 20 %	EK	e3
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER

I	H	L	P	2	5	2	5	C	Z	E	K	2	2	0	M	5	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.

For technical questions, contact: magnetics@vishay.com

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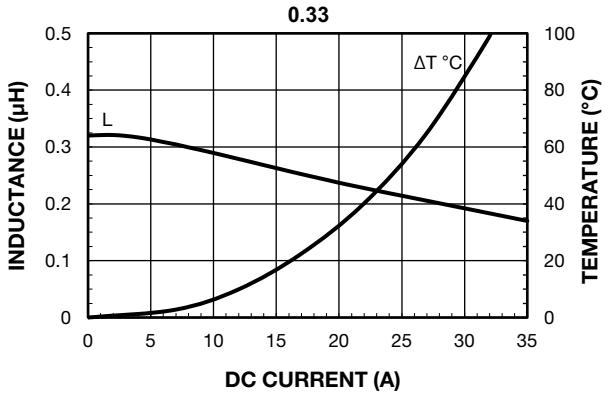
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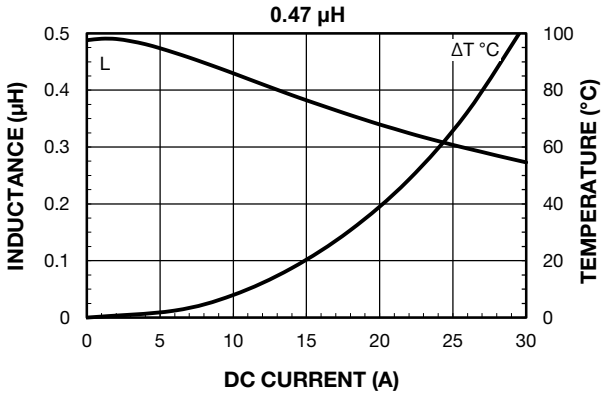
PACKAGE CODE OPTIONS

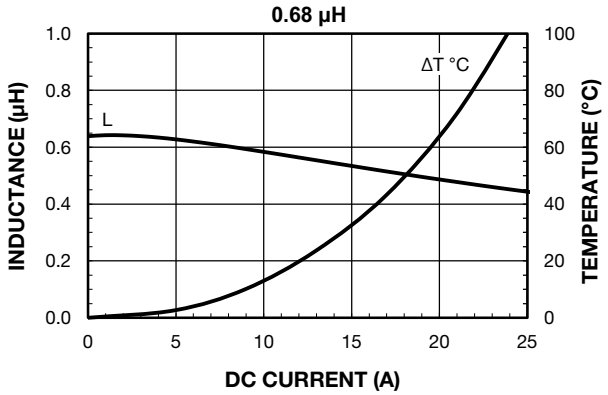
EK = tape and reel packaging (2500 pcs on 13-inch reel)

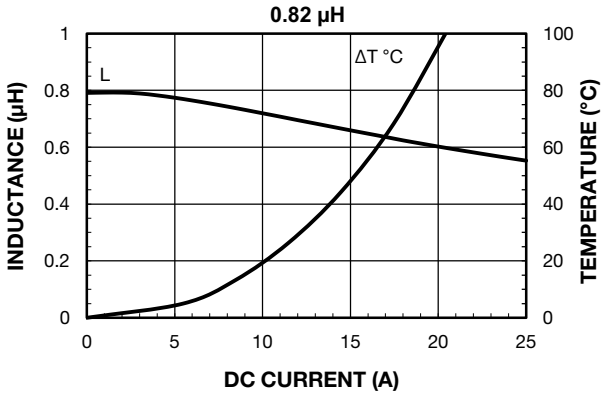
ER = tape and reel packaging (2000 pcs on 13-inch reel)

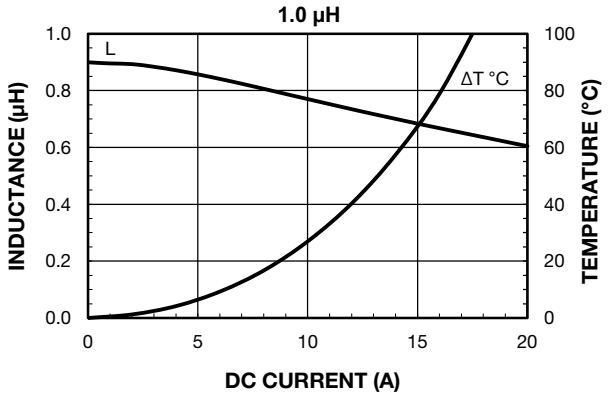
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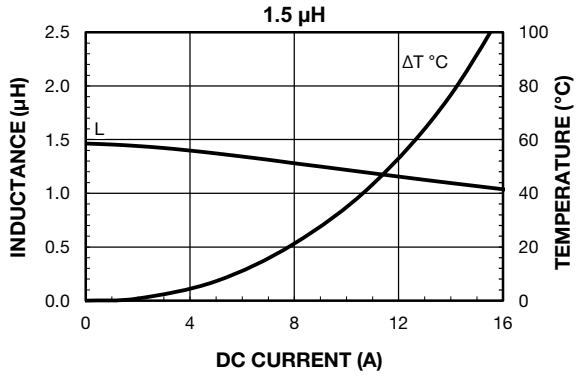










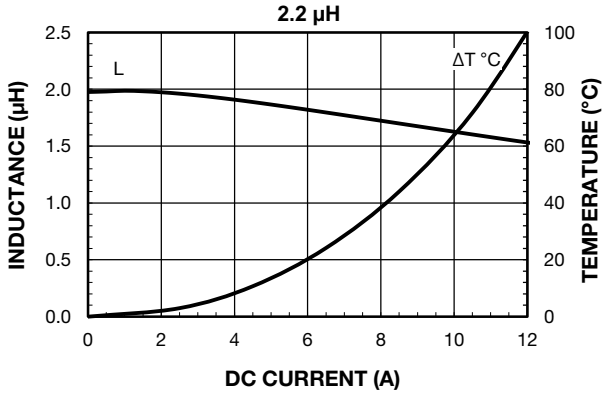


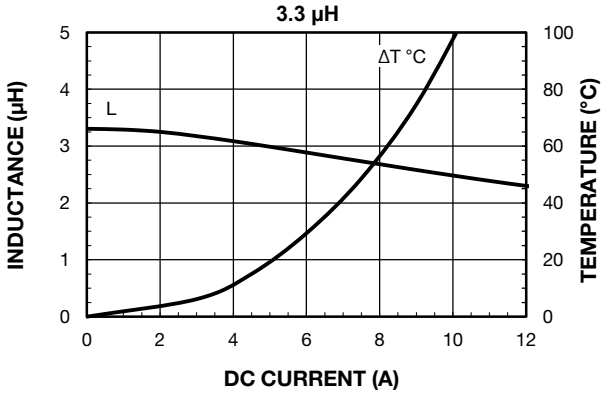
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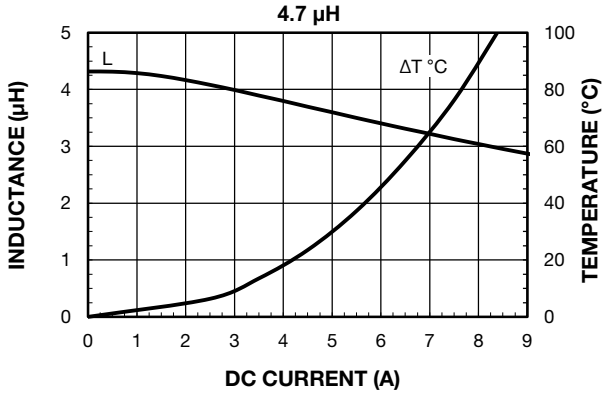
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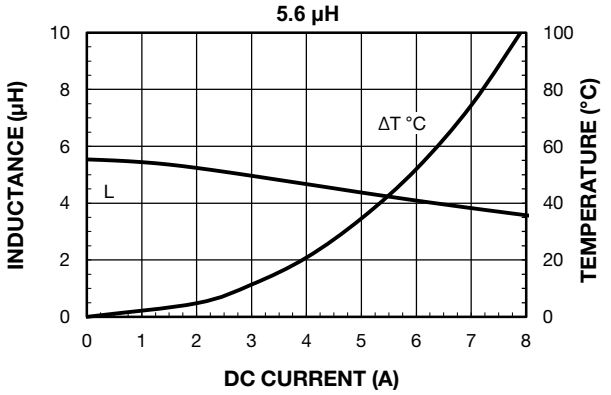
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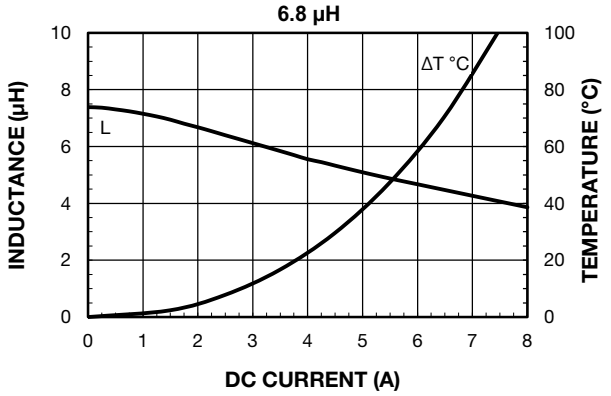
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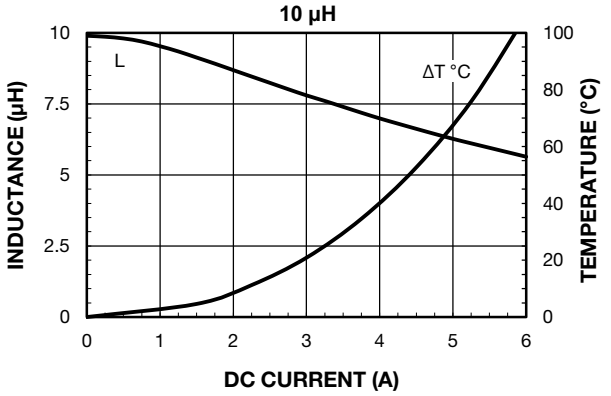


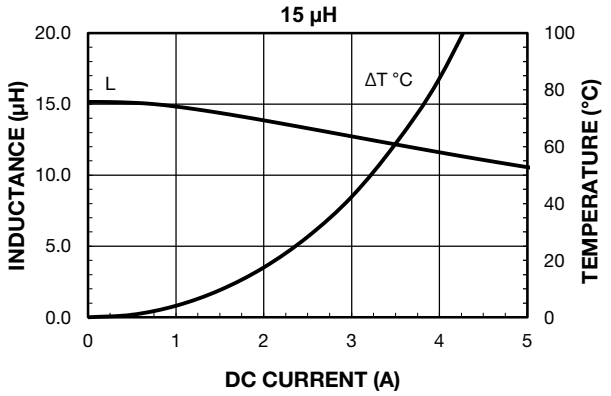


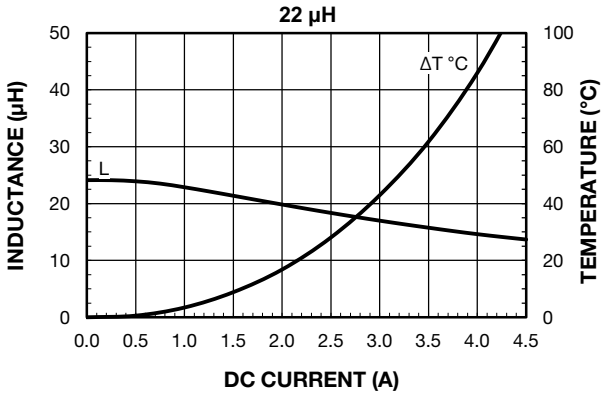






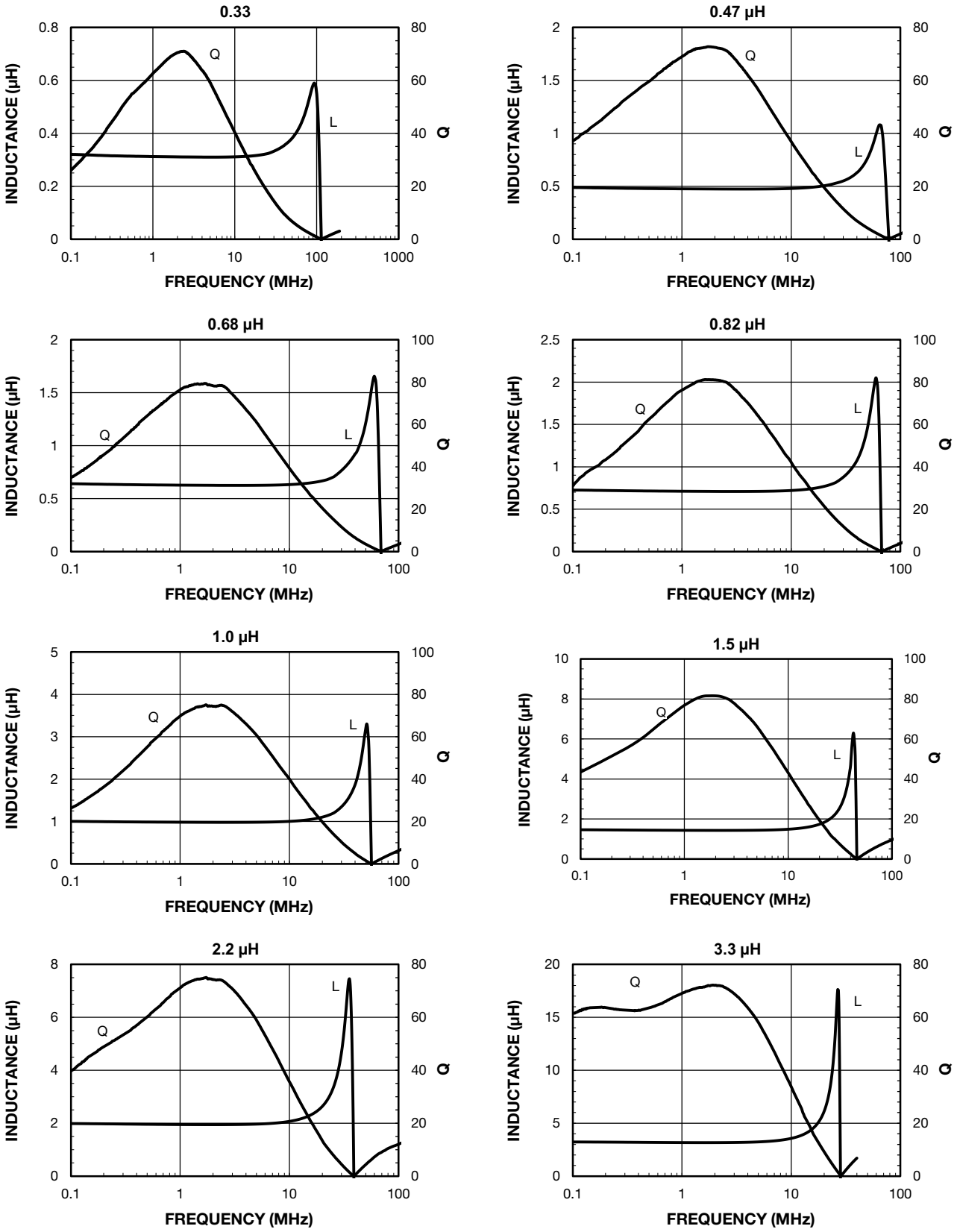






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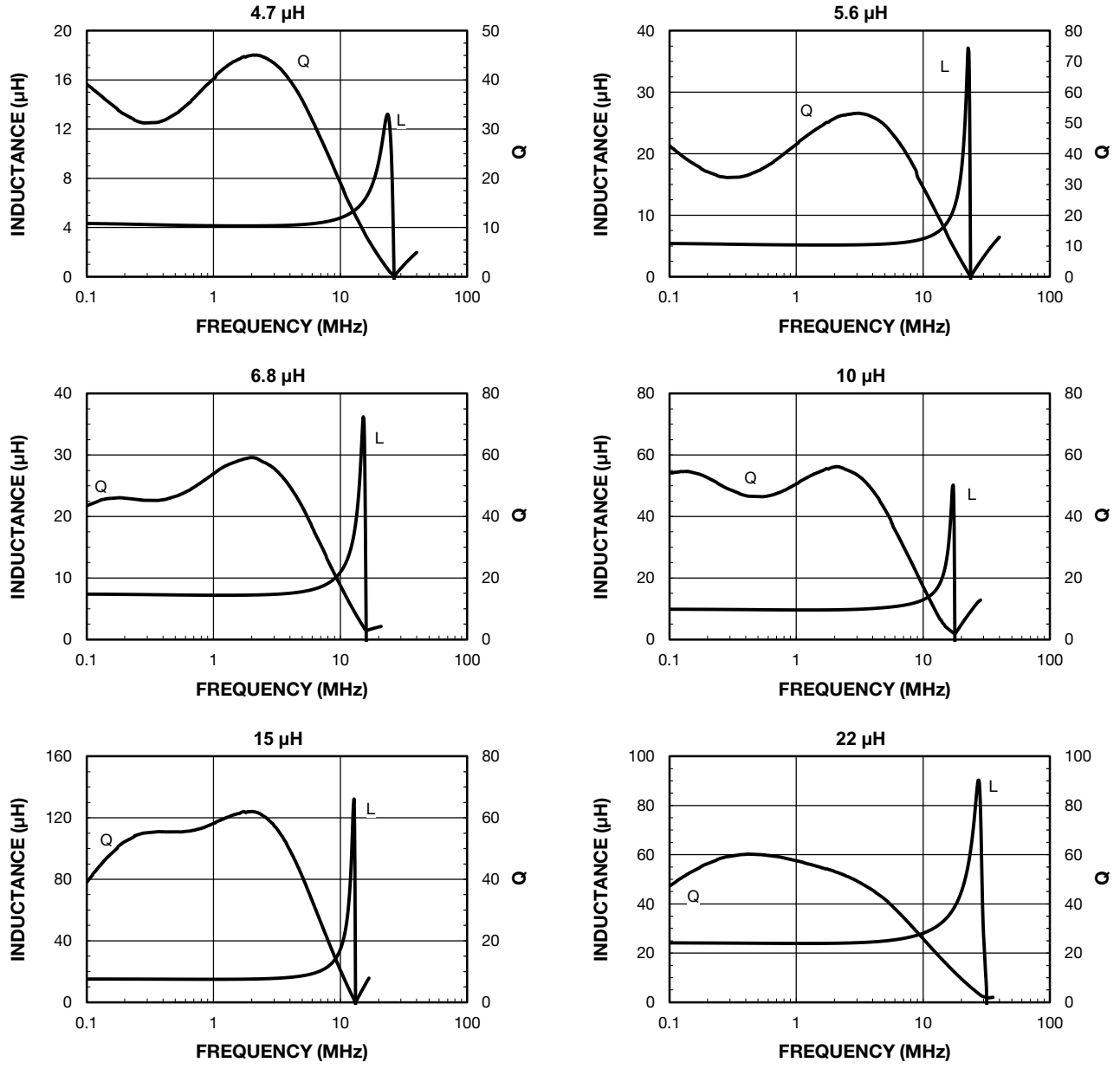


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