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



FEATURES

- High temperature, up to 155 °C
- 5.18 mm x 5.18 mm x 2.0 mm size
- Magnetically shielded iron alloy encapsulation
- Handles high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

Pb-free
RoHS COMPLIANT
HALOGEN FREE GREEN (5-2008)

LINKS TO ADDITIONAL RESOURCES

Product Page Design Tools

APPLICATIONS

- DC/DC converters
- Power line noise suppression and filtering
- SSD modules, USB chargers

STANDARD ELECTRICAL SPECIFICATIONS

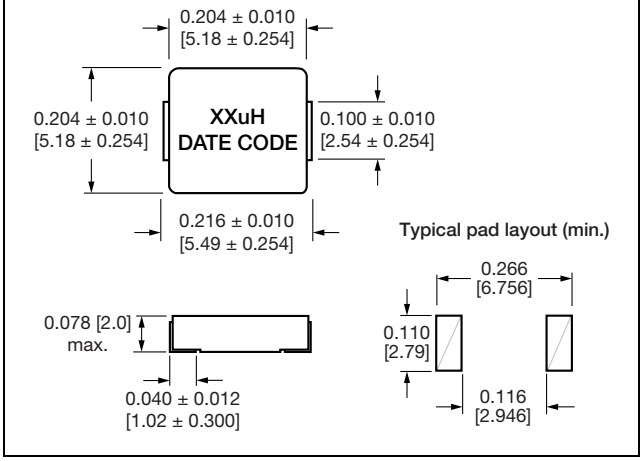
L_0 INDUCTANCE ± 20 % AT 100 kHz, 0.25 V, 0 A (µH)	DCR TYP. 25 °C (mΩ)	DCR MAX. 25 °C (mΩ)	HEAT RATING CURRENT DC TYP. (A) (1)	SATURATION CURRENT DC TYP. (A) (2)	SRF TYP. (MHz)
0.10	2.8	3	25.3	23.4	360
0.47	7.3	7.8	13.43	9.35	101.6
0.68	13.3	14.2	9.44	8.01	92.3
1.0	19.5	20.9	7.40	7.25	55.7
2.2	44.5	47.6	5.10	6.40	43.1
3.3	70.0	74.9	4.00	5.10	33.7
4.7	89.1	95.3	3.20	2.80	30.5
6.8	126.9	135.8	2.80	2.60	24.8
10	181.0	193.7	2.50	2.13	17.5
15	289.0	303.0	1.72	1.72	16.8
22	413.0	433.0	1.62	1.50	12.0

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, PCB 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) = 50 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]



For technical questions, contact: magnetics@vishay.com
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DESCRIPTION

IHLP-2020BZ-51	3.3 µH	± 20 %	EK	e3
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER

I H L P	2 0 2 0 B Z	E K	3 R 3	M	5 1
PRODUCT FAMILY	SIZE	PACKAGE CODE	INDUCTANCE VALUE	TOLERANCE	SERIES
		EK = tape and reel	**3R3** = 3.3 µH	**M** = 20 %	

PACKAGE CODE OPTIONS

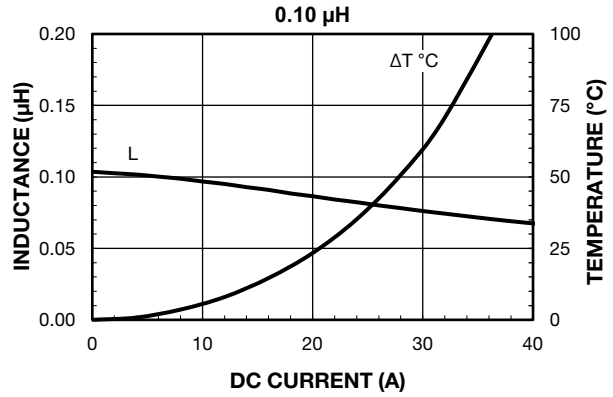
EK = tape and reel packaging (3500 pcs on 13-inch reel)

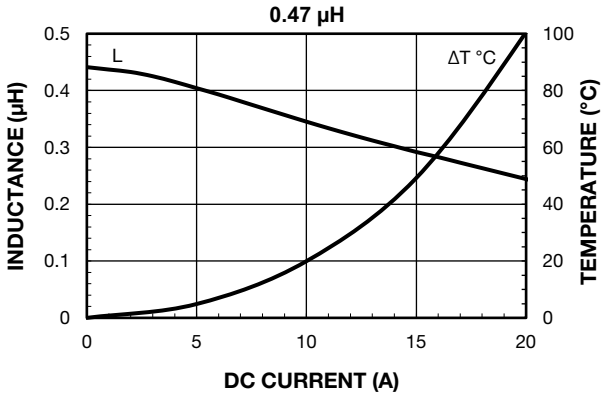
ER = tape and reel packaging (2000 pcs on 13-inch reel)

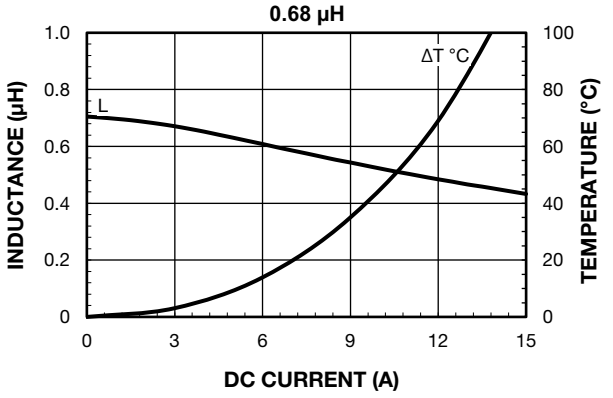
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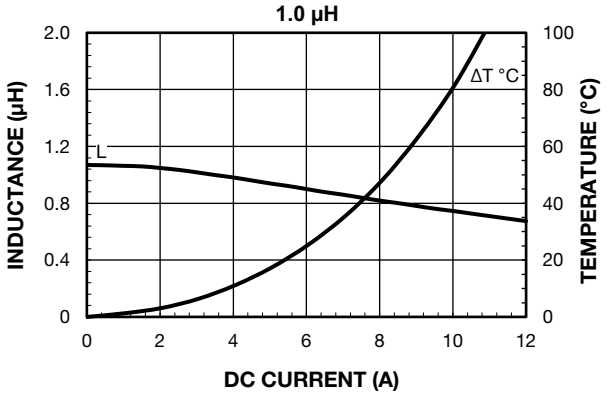
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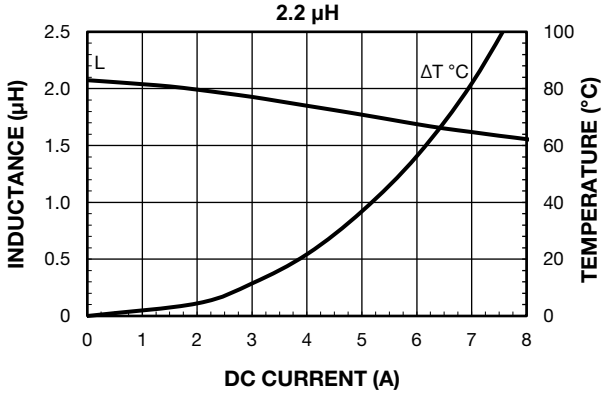
PERFORMANCE GRAPHS

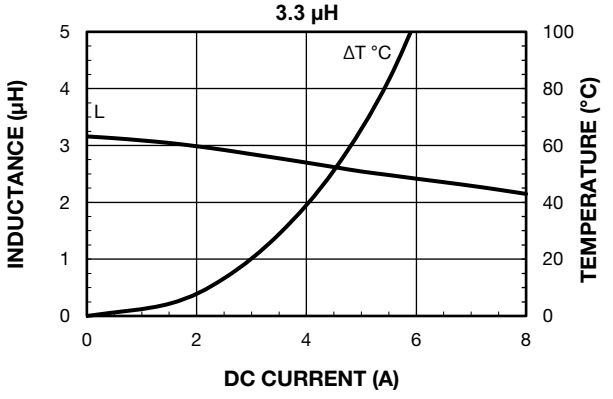






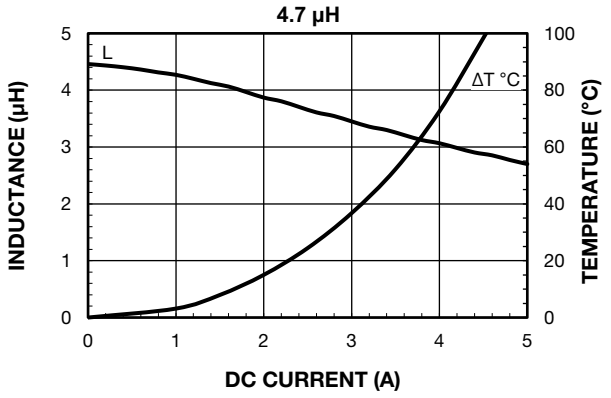


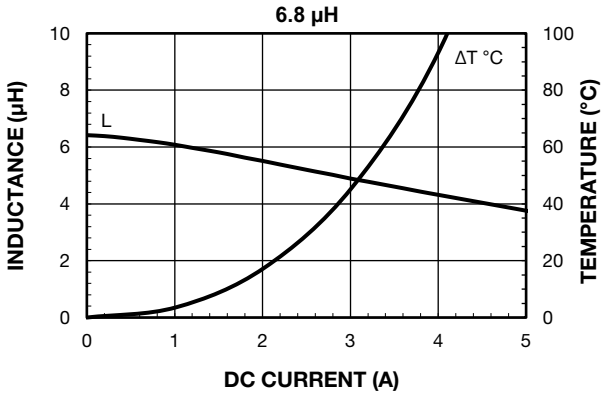


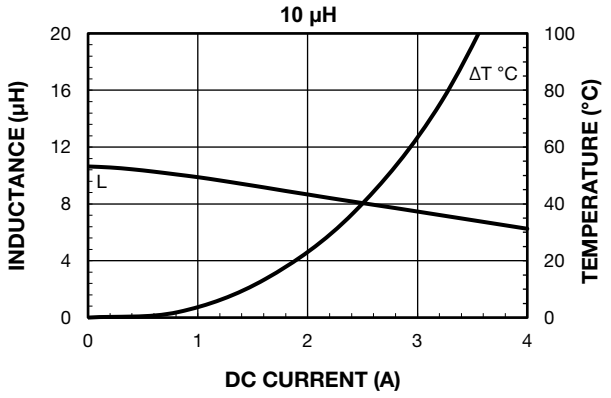


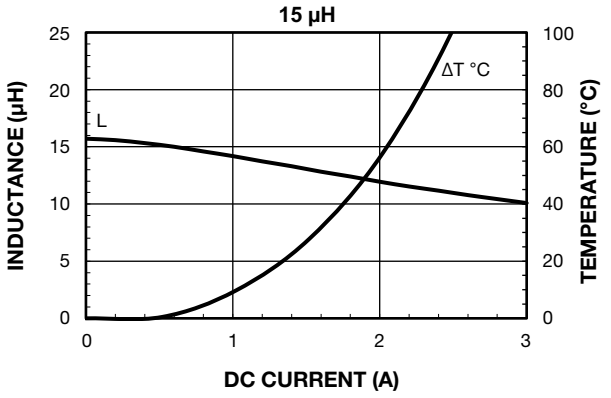
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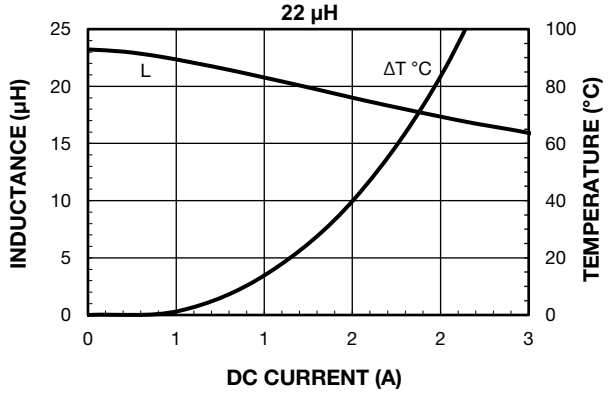
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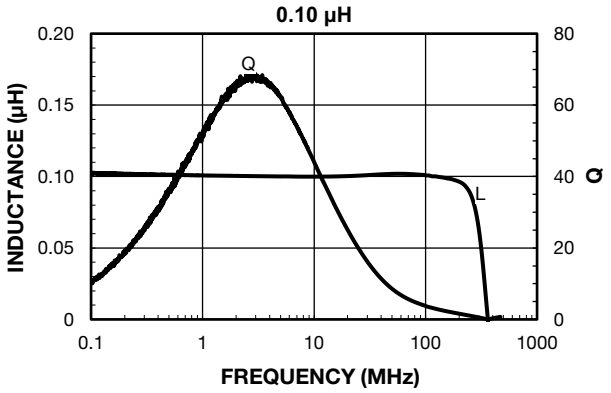


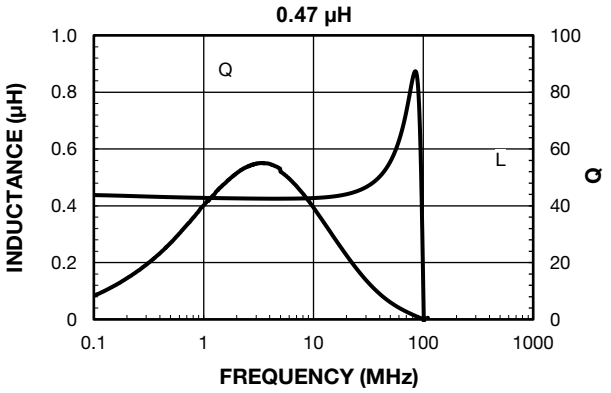


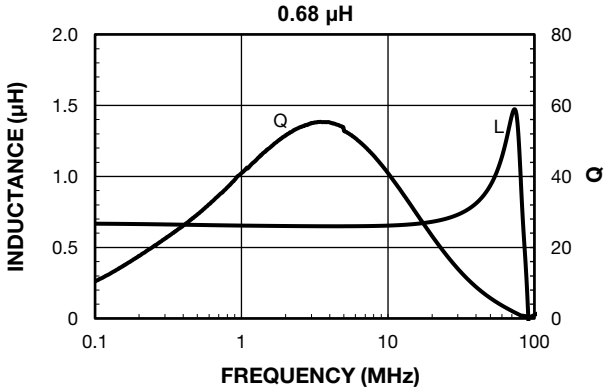
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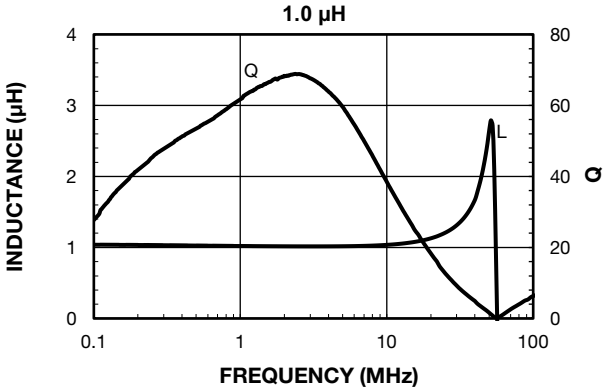
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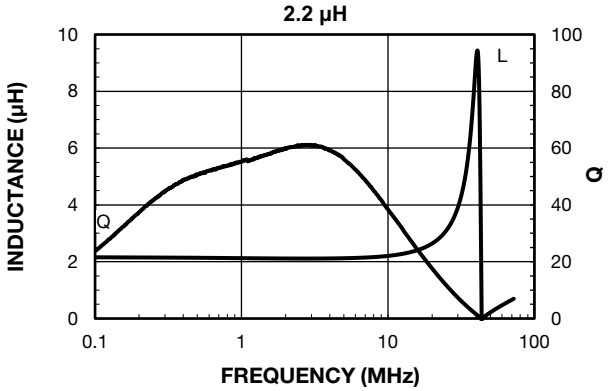
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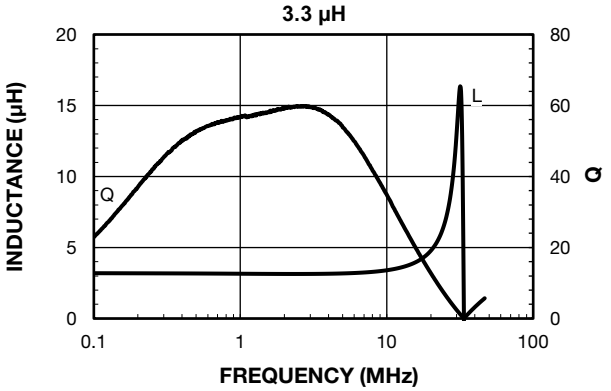








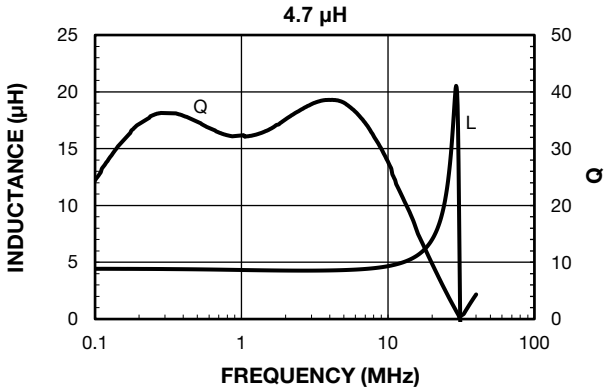


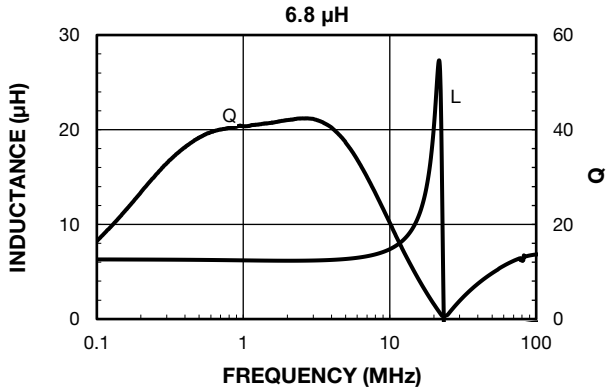


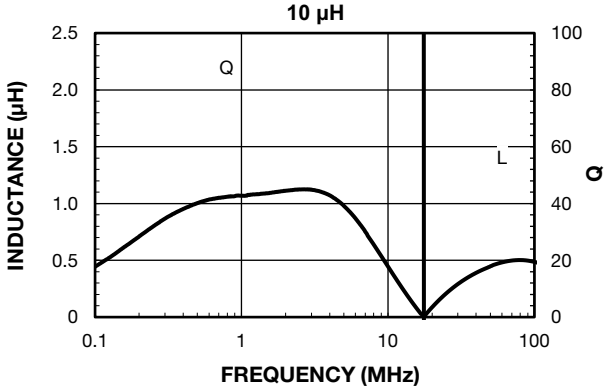
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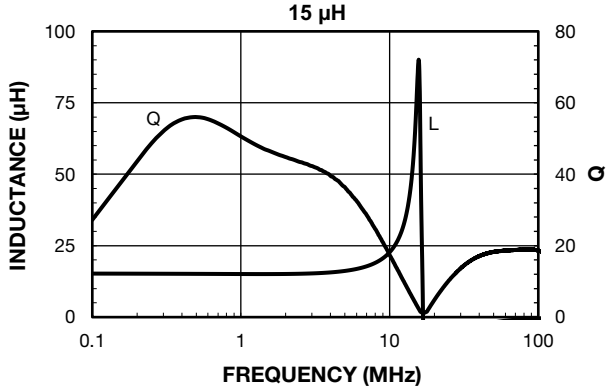
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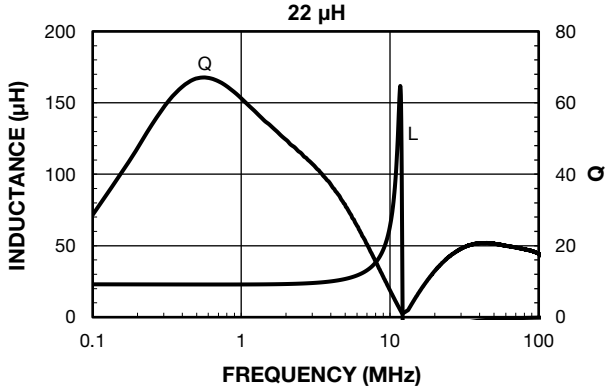
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