IHLP® Commercial Inductors, High Saturation Series





FEATURES

- Size: 5.49 mm x 5.18 mm x 1.2 mm
- Shielded construction
- Handles high transient current spikes without saturation
- Excellent temperature stability for inductance and saturation
- 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 | 3D Models | Calculators

APPLICATIONS

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

STANDARD ELECTRICAL SPECIFICATIONS

PART NUMBER	L_0 INDUCTANCE ± 20 % AT 100 kHz, 0.25 V, 0 A (µH)	DCR 25 °C (mΩ)		HEAT RATING CURRENT DC TYP. (A) (1)	SATURATION CURRENT DC TYP. (A) (2)		SRF TYP. (MHz)
		TYP.	MAX.		20 % DROP	30 % DROP	
IHLP2020AB**R10M01	0.1	4.32	4.6	13.5	35.0	45.0	256
IHLP2020AB**R47M01	0.47	18.2	19.2	6.5	13.0	16.0	108
IHLP2020AB**1R0M01	1	44.3	46.5	4.4	6.5	10.0	64
IHLP2020AB**2R2M01	2.2	73.6	77.3	3.4	4.7	6.5	47
IHLP2020AB**3R3M01	3.3	98.4	103	2.8	5	7.0	33
IHLP2020AB**4R7M01	4.7	159	168	2.2	3	4.5	30

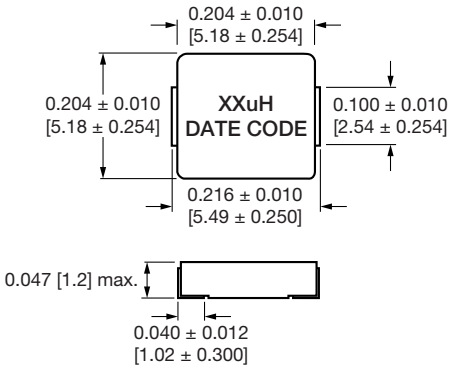
Notes

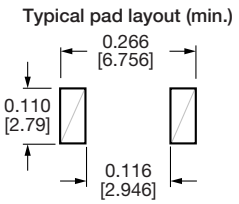
- All test data is referenced to 25 °C ambient
- Operating temperature range -55 °C to +125 °C
- The part temperature (ambient + temp. rise) should not exceed 125 °C under worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provisions 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 % and 30 %

DIMENSIONS in inches [millimeters]





For technical questions, contact: magnetics@vishay.com

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DESCRIPTION

IHLP2020AB-01	4.7 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 A B	E K	4 R 7	M	0 1
PRODUCT FAMILY	SIZE	PACKAGE CODE **EK** = tape and reel	INDUCTANCE VALUE **4R7** = 4.7 µH	INDUCTANCE TOLERANCE **M** = ± 20 % **N** = ± 30 %	SERIES

PACKAGE CODE OPTIONS

EK = tape and reel packaging (4800 pcs on 13-inch reel)

ER = tape and reel packaging (4000 pcs on 13-inch reel)

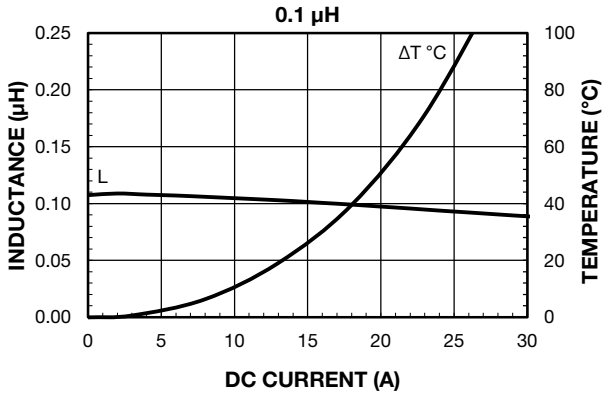
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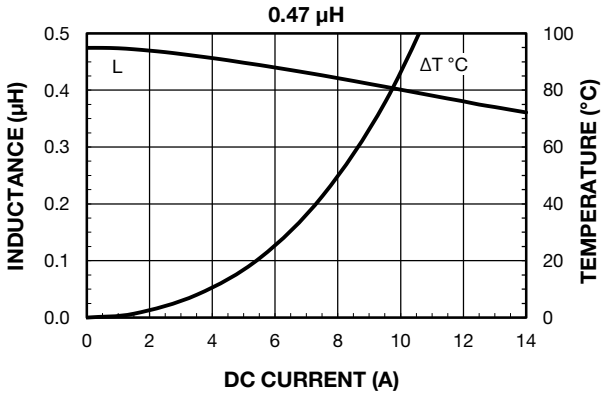
- For additional packaging details see "Packaging Methods"

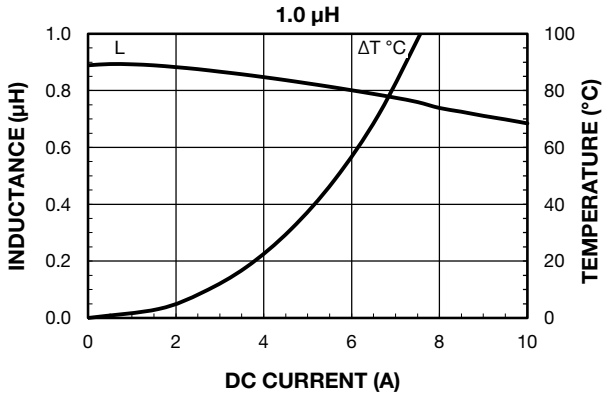
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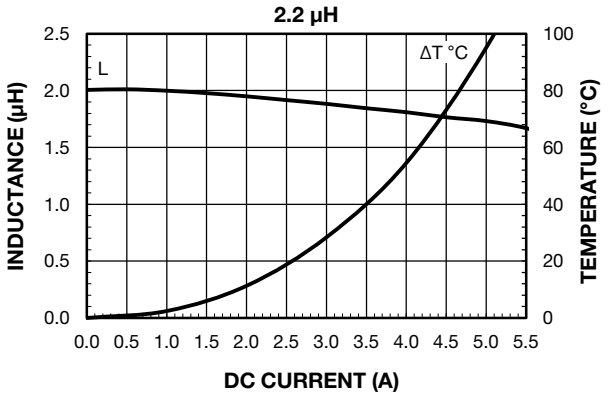
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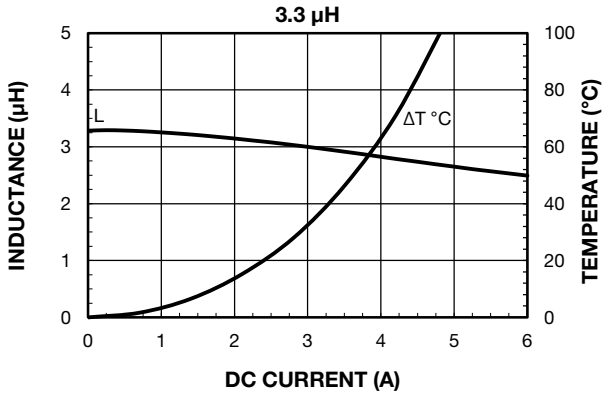
PERFORMANCE GRAPHS

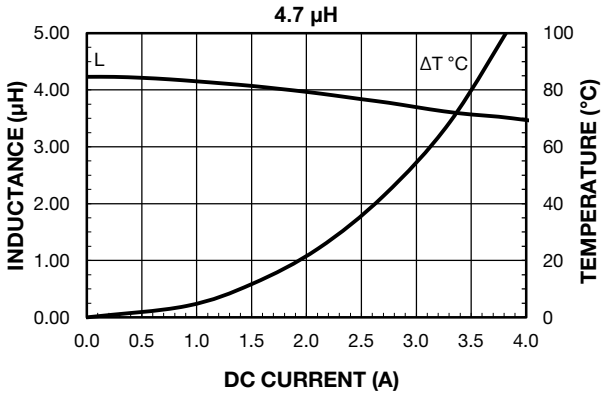








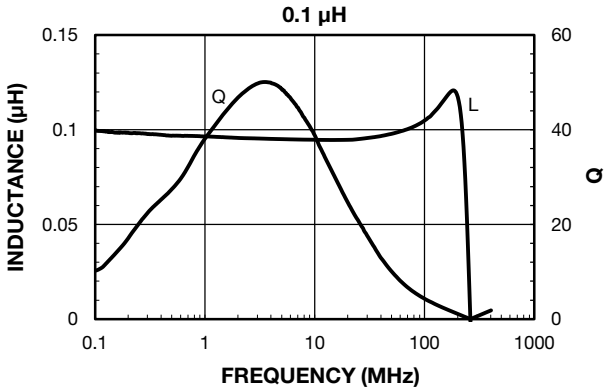


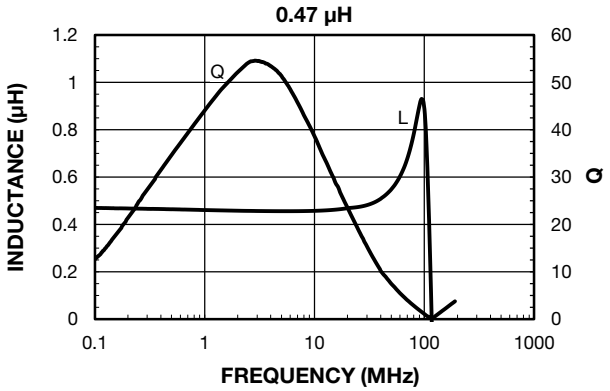


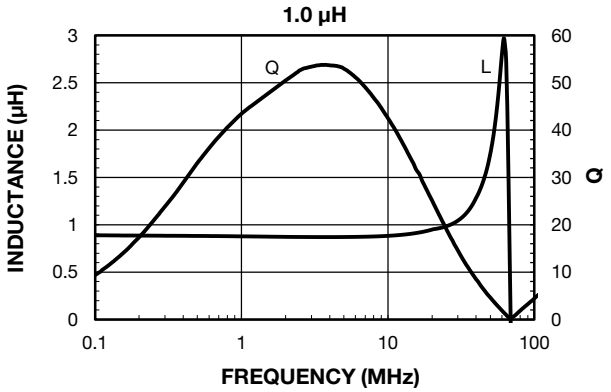
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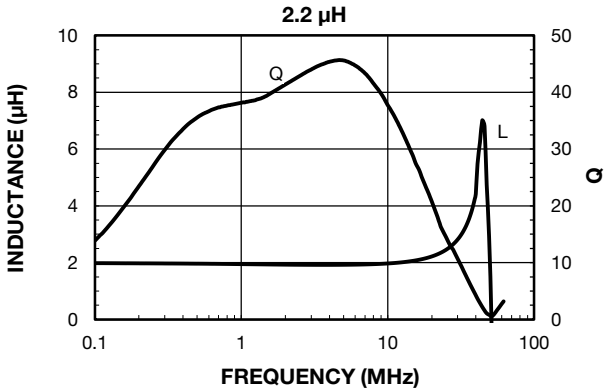
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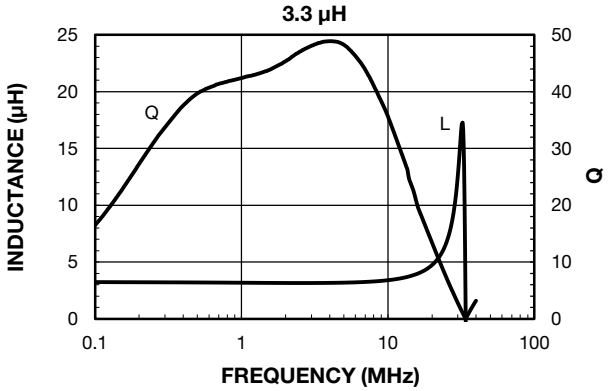
PERFORMANCE GRAPHS: INDUCTANCE AND Q VS. FREQUENCY

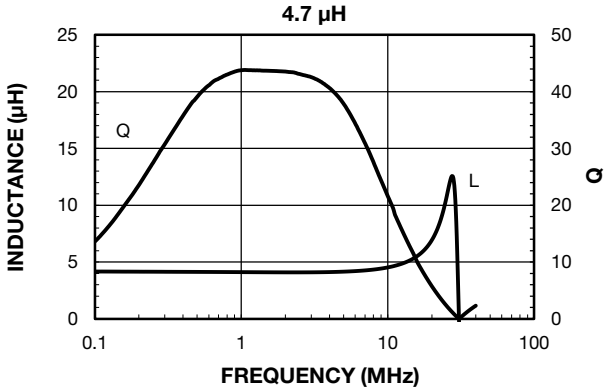












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