

IHLP® Tin / Lead Inductors, High Saturation Series



LINKS TO ADDITIONAL RESOURCES



FEATURES

- Shielded construction
- Handles high transient current spikes without saturation
- Tin / lead 60Sn / 40Pb **plated** (not dipped) terminals
- IHLP design; PATENT(S): www.vishay.com/patents

APPLICATIONS

- 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

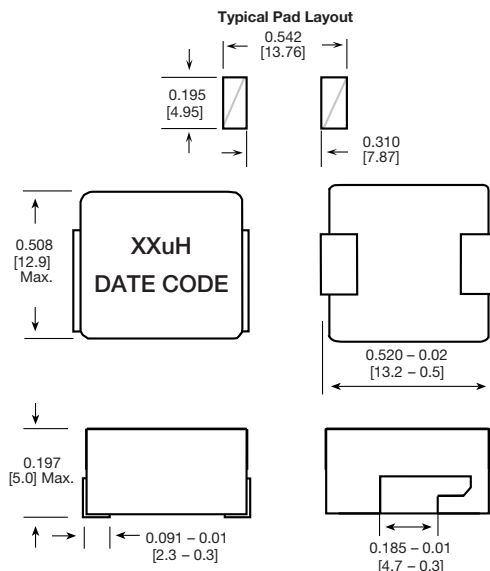
PART NUMBER	L_0 INDUCTANCE $\pm 20\%$ AT 100 kHz, 0.25 V, 0 A (μ H)	DCR TYP. 25 °C (m Ω)	DCR MAX. 25 °C (m Ω)	HEAT RATING CURRENT DC TYP. (A) ⁽¹⁾	SATURATION CURRENT DC TYP. (A) ⁽²⁾
IHLP5050EZRZ10ML1	0.10	0.52	0.60	55	118
IHLP5050EZRZ22ML1	0.22	0.64	0.80	51	110
IHLP5050EZRZ33ML1	0.33	0.85	1.1	42	80
IHLP5050EZRZ47ML1	0.47	1.1	1.3	38	65
IHLP5050EZRZ56ML1	0.56	1.3	1.5	36	55
IHLP5050EZRZ82ML1	0.82	2.0	2.3	31	53
IHLP5050EZRZ1R0ML1	1.0	2.1	2.5	29	50
IHLP5050EZRZ1R5ML1	1.5	3.4	4.1	23	48
IHLP5050EZRZ2R2ML1	2.2	4.6	5.5	20	32
IHLP5050EZRZ3R3ML1	3.3	7.7	9.2	15	32
IHLP5050EZRZ4R7ML1	4.7	12.8	15.0	12	27
IHLP5050EZRZ5R6ML1	5.6	14.0	16.5	11.5	22
IHLP5050EZRZ6R8ML1	6.8	15.4	18.5	11	21
IHLP5050EZRZ7R8ML1	7.8	17.2	20.5	10	18
IHLP5050EZRZ8R2ML1	8.2	18.9	22.5	9.5	18
IHLP5050EZRZ100ML1	10	21.4	25.5	9.0	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 %

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

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

DIMENSIONS in inches [millimeters]

DESCRIPTION
IHLP-5050EZ-L1
MODEL

1.0 μ H
INDUCTANCE VALUE

 $\pm 20 \%$
INDUCTANCE TOLERANCE

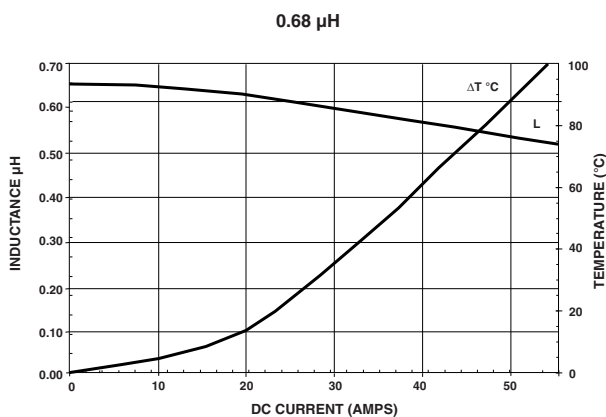
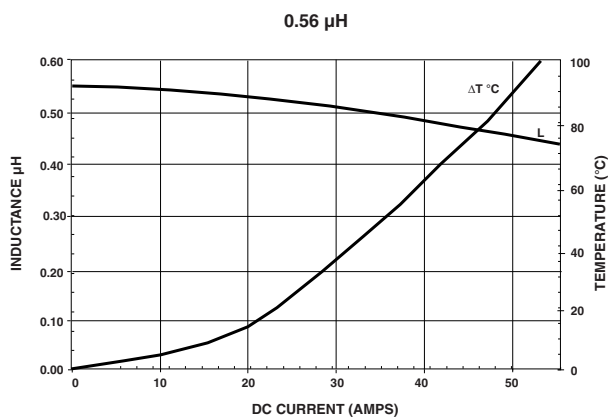
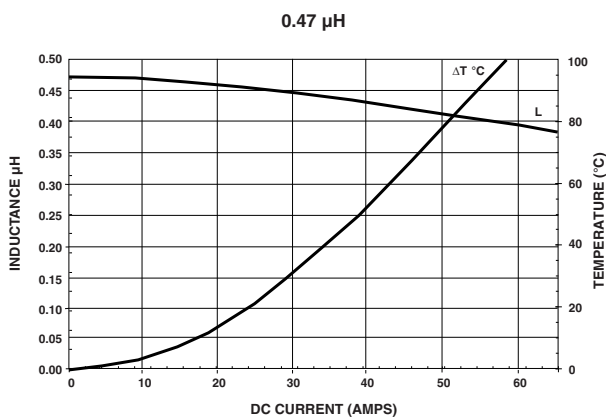
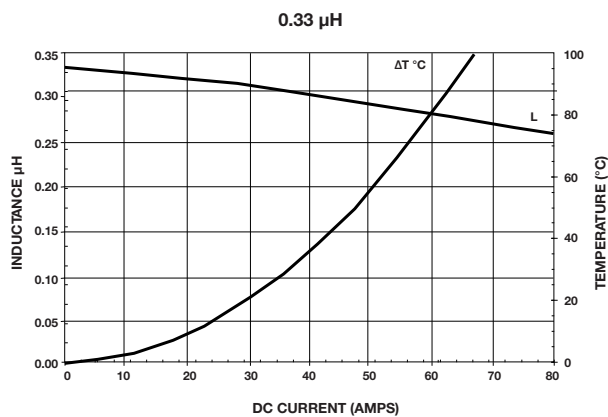
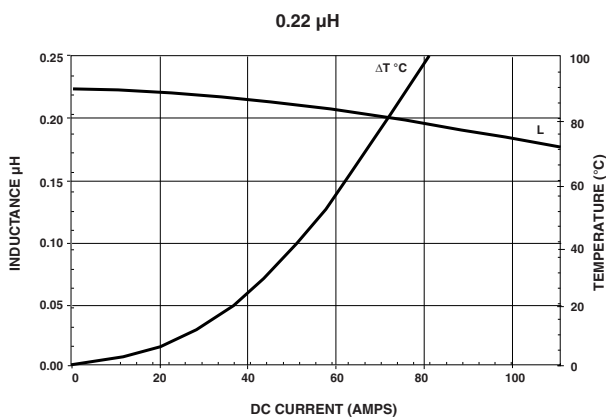
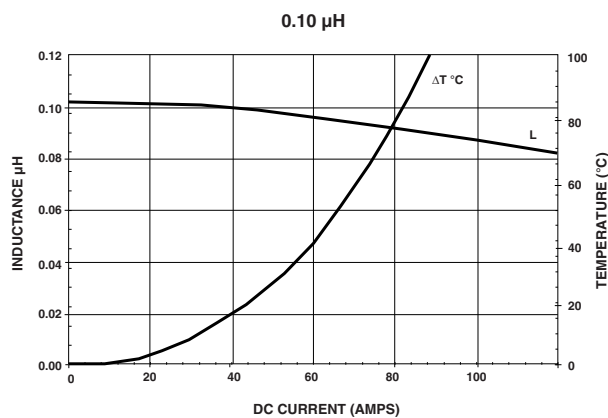
RZ
PACKAGE CODE

GLOBAL PART NUMBER

I	H	L	P	5	0	5	0	E	Z	R	Z	1	R	7	M	L	1
PRODUCT FAMILY				SIZE						PACKAGE CODE		INDUCTANCE VALUE			TOL.	SERIES	
RZ = tape and reel + SnPb SL = tape and reel + SnPb + single lot date code																	

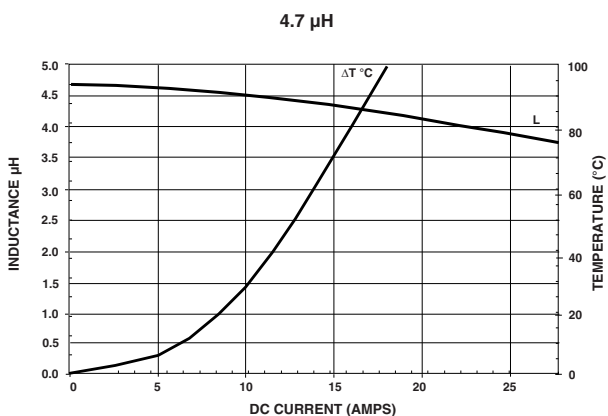
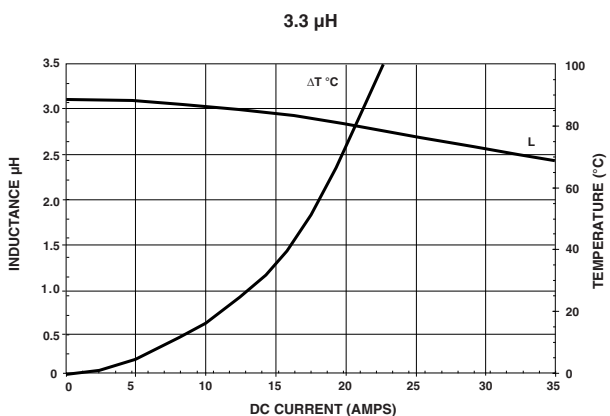
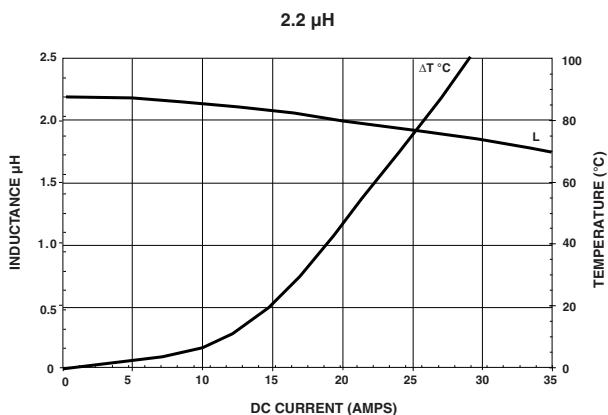
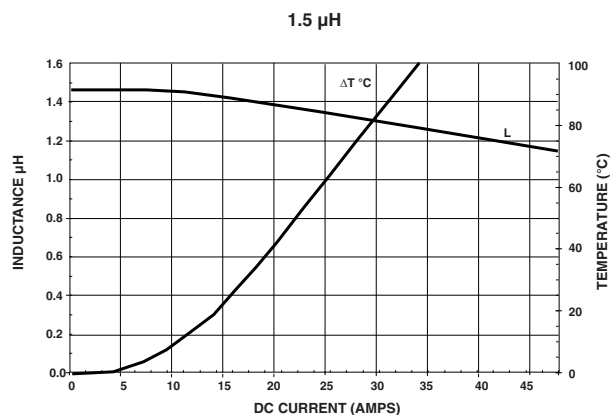
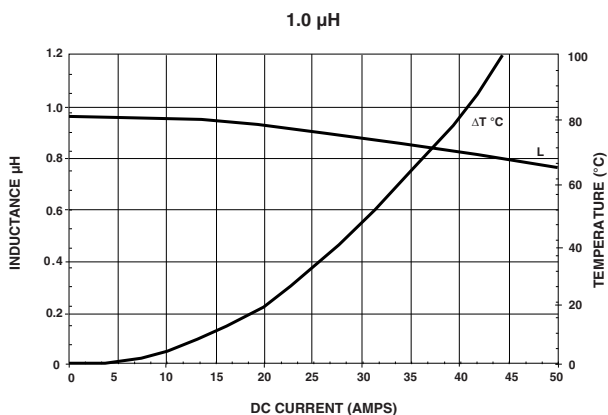
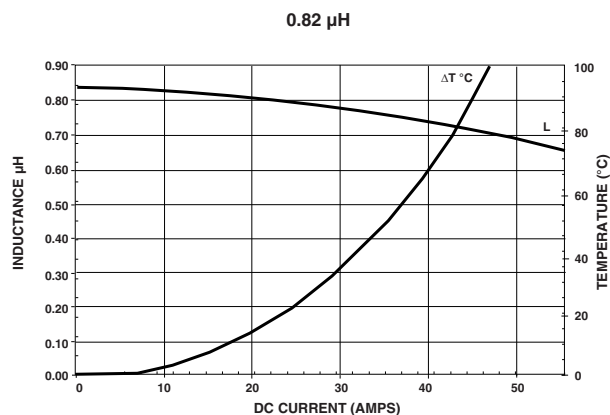


PERFORMANCE GRAPHS



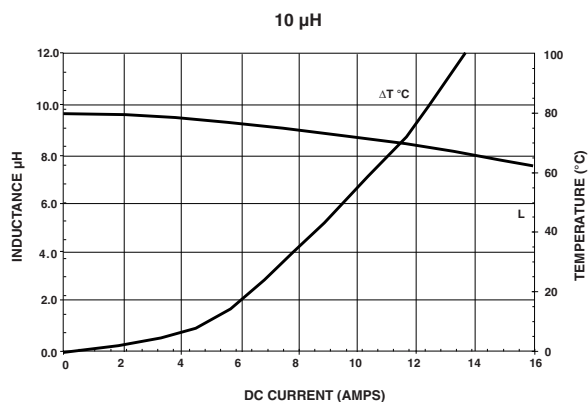
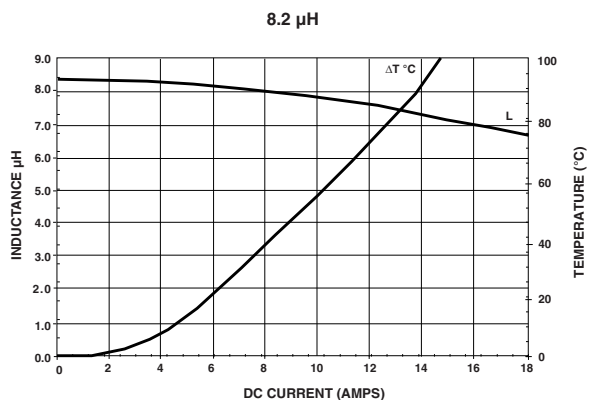
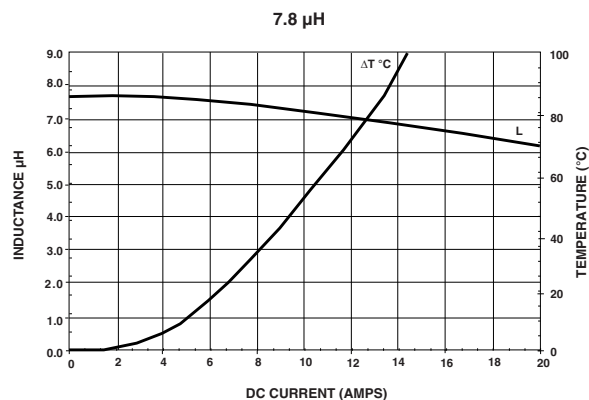
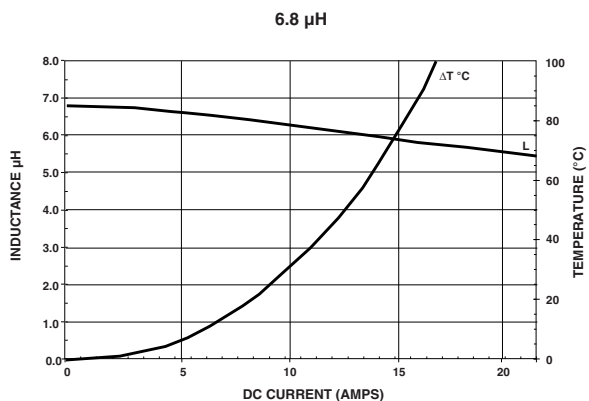
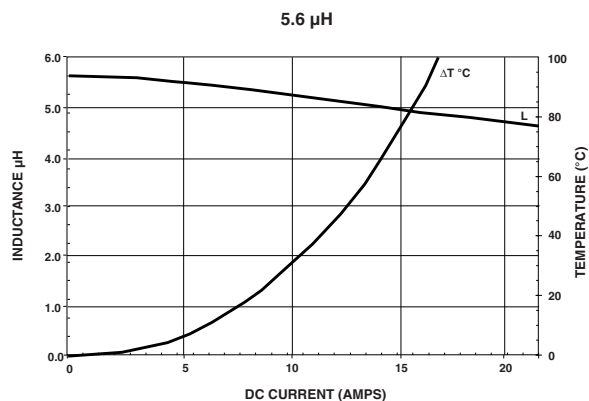


PERFORMANCE GRAPHS





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