

IHLP® Tin / Lead Inductors, Low DCR Series



LINKS TO ADDITIONAL RESOURCES



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⁾
0.19	0.70	0.80	40	46
0.22	0.85	0.95	33	44
0.24	0.85	0.95	33	44
0.36	1.05	1.15	32	30
0.47	1.53	1.68	30	30
0.56	1.61	1.80	32	22
0.78	1.80	1.90	27	22
1.0	2.30	2.50	25	20
1.8	4.50	5.00	17	16
2.0	5.20	5.80	16	14
4.7	12.90	14.20	9.5	7.6
6.8	17.50	19.30	9.0	7.5
10	27.80	30.50	7.5	7.1
15	40.90	45.00	6.25	6.0
22	60.40	66.00	5.0	4.5
33	87.50	94.50	4.4	4.0
47	132.0	145.0	3.3	3.0
100	249.0	270.0	2.5	2.25

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) = 50 V
- ⁽¹⁾ DC current (A) that will cause an approximate ΔT of 40 °C
- ⁽²⁾ DC current (A) that will cause L₀ to drop approximately 20 %

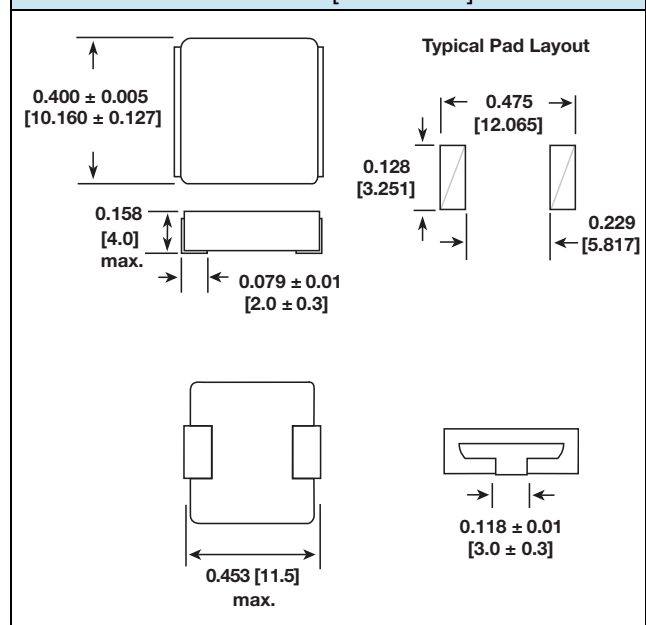
FEATURES

- Shielded construction
- Frequency range up to 1.0 MHz
- Lowest DCR/μH, in this package size
- Handles high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction
- Tin / lead Sn / Pb plated (not dipped) terminals
- IHLP design; PATENT(S): www.vishay.com/patents

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)

DIMENSIONS in inches [millimeters]



DESCRIPTION

IHLP-4040DZ-1L	2.0 μH	± 20 %	RZ
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE

GLOBAL PART NUMBER

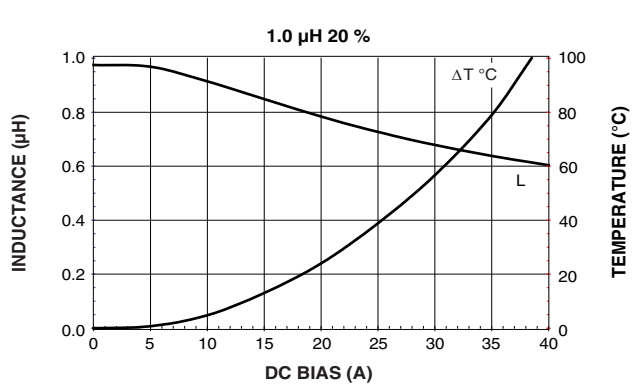
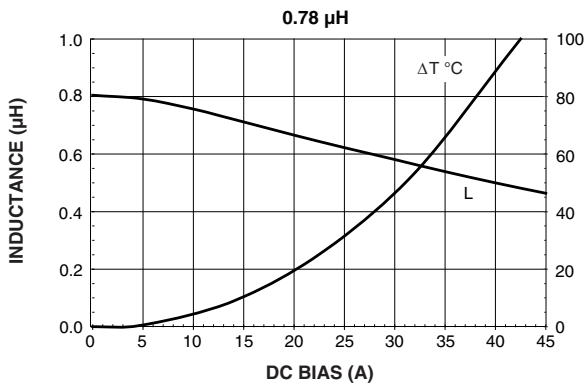
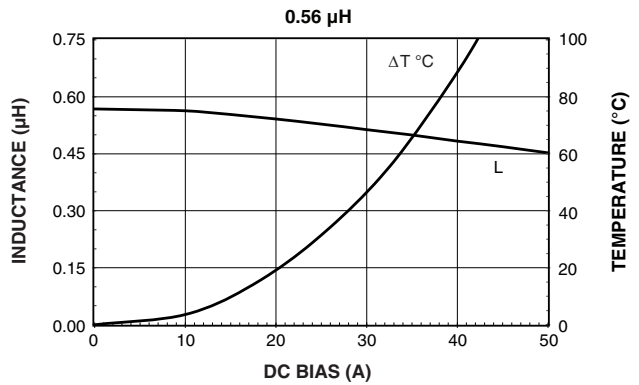
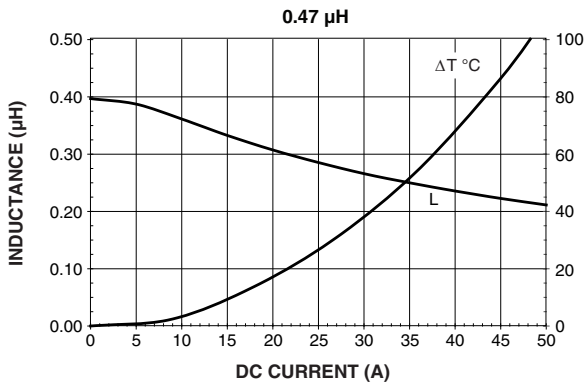
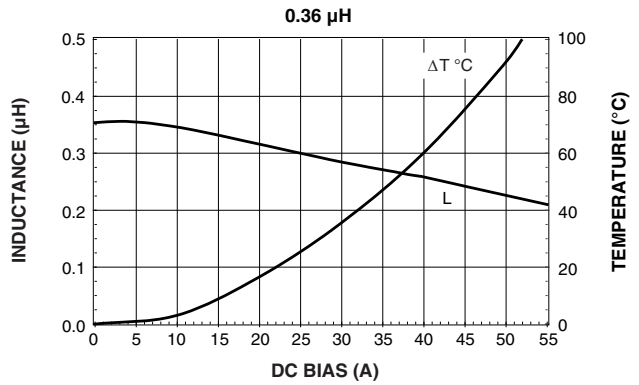
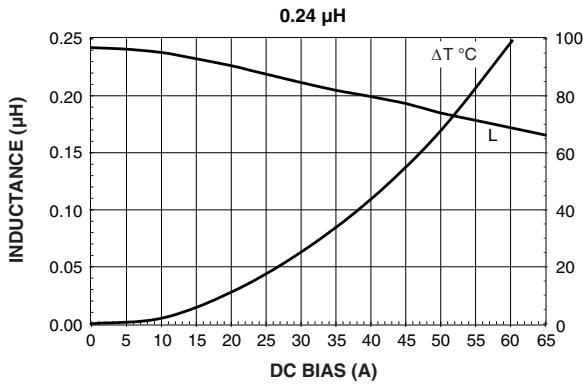
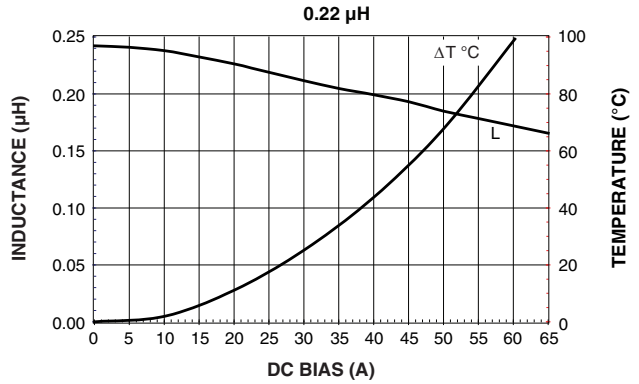
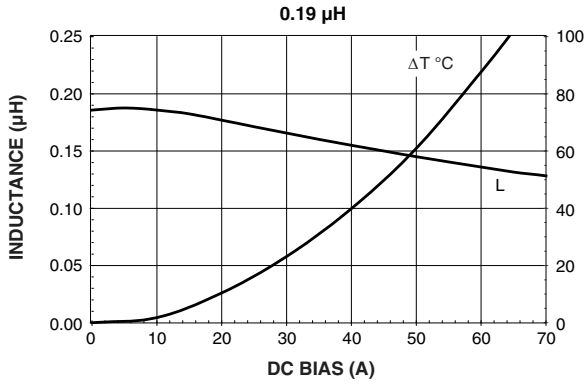
I	H	L	P	4	0	4	0	D	Z	R	Z	2	R	0	M	1	L
PRODUCT FAMILY				SIZE				PACKAGE CODE		INDUCTANCE VALUE			TOL.	SERIES			

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

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

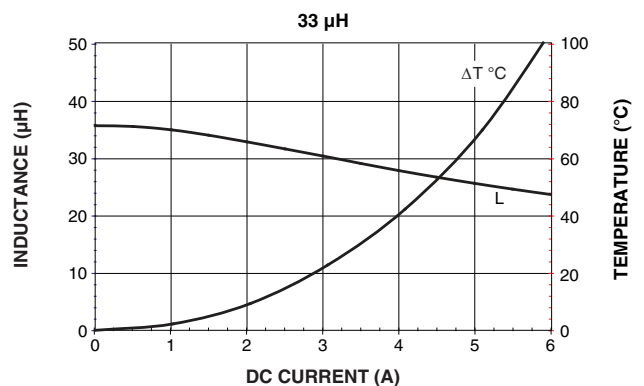
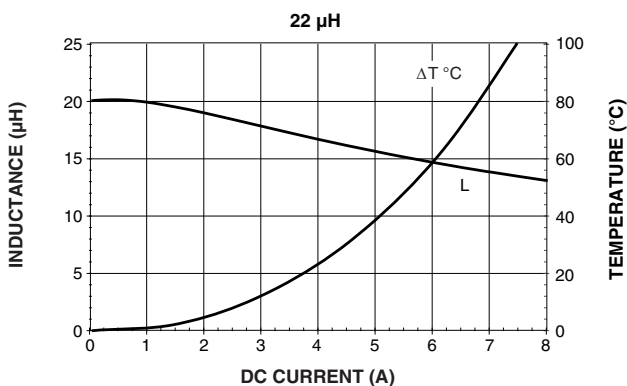
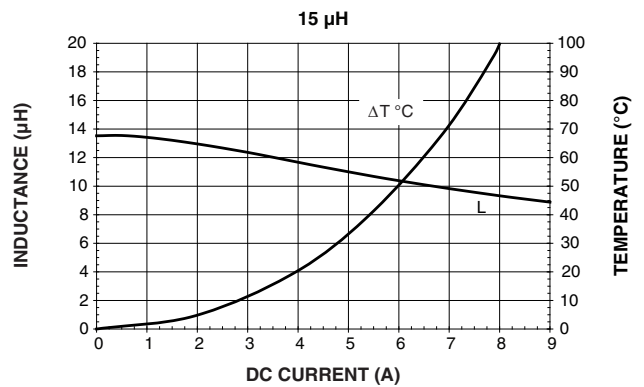
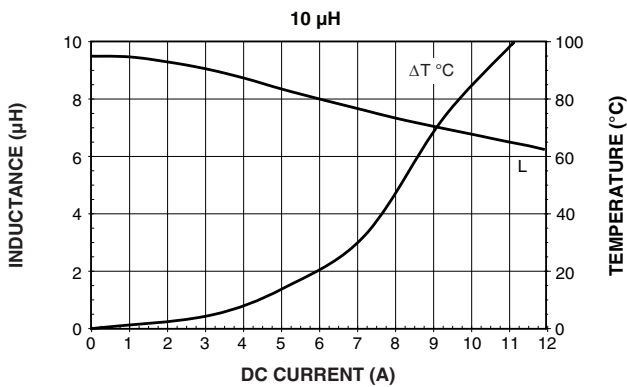
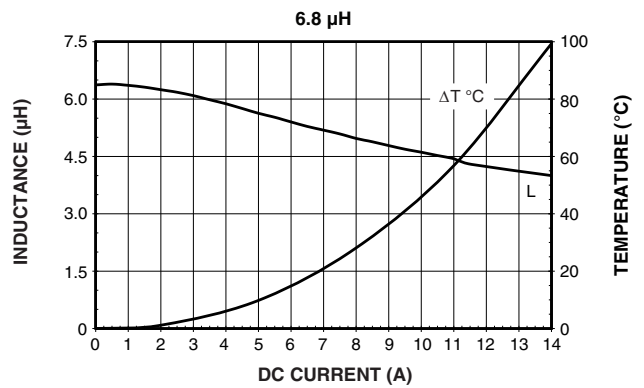
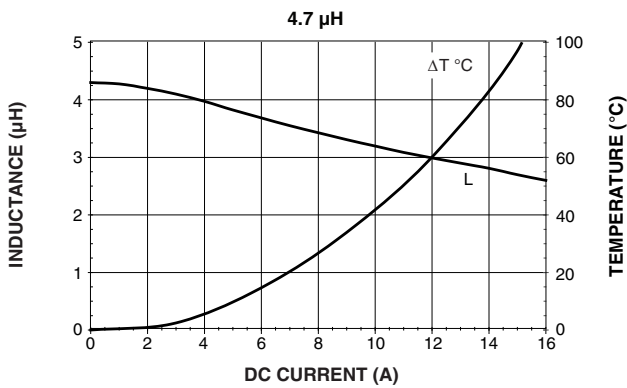
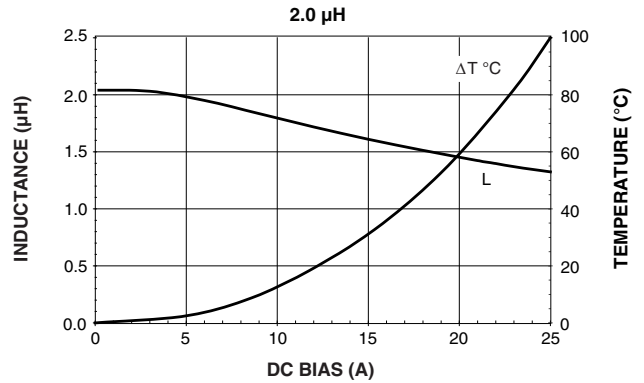
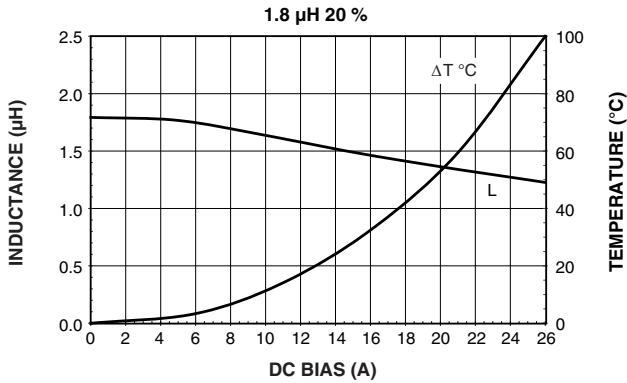


PERFORMANCE GRAPHS



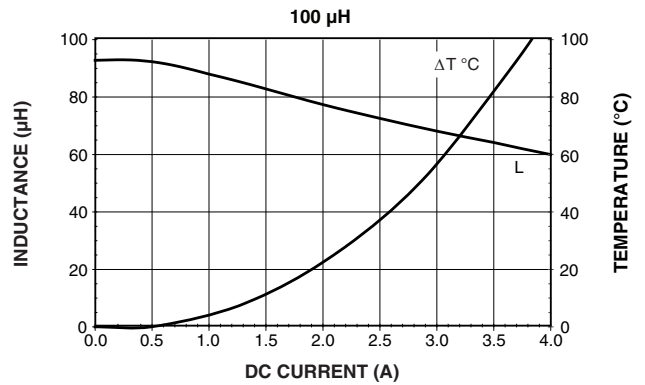
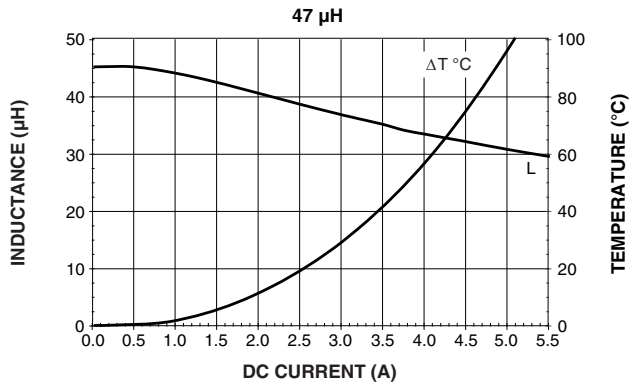


PERFORMANCE GRAPHS





PERFORMANCE GRAPHS





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