IHLP® Tin / Lead Inductors, Low DCR Series



FEATURES

- Magnetically shielded construction
- 11.5 mm x 10.2 mm x 4.0 mm SMD package
- Low DCR
- Termination: tin / lead (60Sn40Pb) plated (not dipped) terminals
- IHLP design; PATENT(S): www.vishay.com/patents

LINKS TO ADDITIONAL RESOURCES

Calculators

APPLICATIONS

- DC/DC power supplies
- Smart grid and solar
- Telecommunications equipment
- Noise suppression and filtering

STANDARD ELECTRICAL SPECIFICATIONS

PART NUMBER	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)
IHLP4040DZRZR19M1L	0.19	0.70	0.80	40	46
IHLP4040DZRZR22M1L	0.22	0.85	0.95	33	44
IHLP4040DZRZR24M1L	0.24	0.85	0.95	33	44
IHLP4040DZRZR36M1L	0.36	1.05	1.35	32	30
IHLP4040DZRZR47M1L	0.47	1.53	1.68	30	30
IHLP4040DZRZR56M1L	0.56	1.61	1.80	32	22
IHLP4040DZRZR78M1L	0.78	1.80	1.90	27	22
IHLP4040DZRZ1R0M1L	1.0	2.30	2.50	25	20
IHLP4040DZRZ1R8M1L	1.8	4.50	5.00	17	16
IHLP4040DZRZ2R0M1L	2.0	5.20	5.80	16	14
IHLP4040DZRZ4R7M1L	4.7	12.90	14.20	9.5	7.6
IHLP4040DZRZ6R8M1L	6.8	17.50	19.30	9.0	7.5
IHLP4040DZRZ100M1L	10	27.80	30.50	7.5	7.1
IHLP4040DZRZ150M1L	15	40.90	45.00	6.25	6.0
IHLP4040DZRZ180M1L	18	46.40	51.90	5.6	4.6
IHLP4040DZRZ220M1L	22	60.40	66.00	5.0	4.5
IHLP4040DZRZ330M1L	33	87.50	94.50	4.4	4.0
IHLP4040DZRZ470M1L	47	132.0	145.0	3.3	3.0
IHLP4040DZRZ101M1L	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 L_0 to drop approximately 20 %

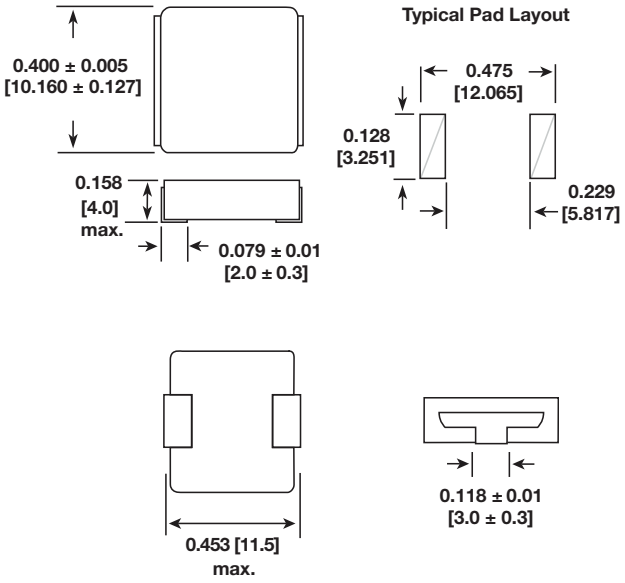
PATENT(S): www.vishay.com/patents

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

For technical questions, contact: magnetics@vishay.com

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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	TOLERANCE	SERIES

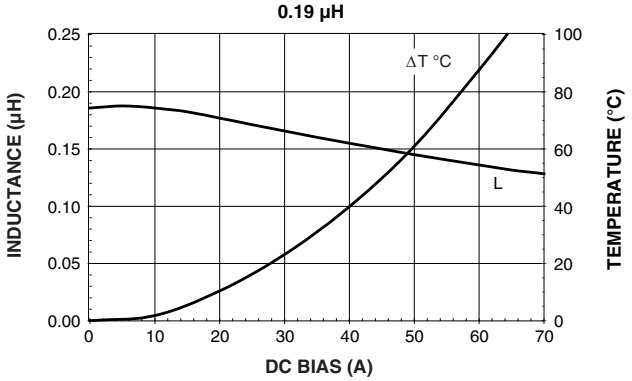
RZ = tape and reel + SnPb
SL = tape and reel + SnPb + single lot date code

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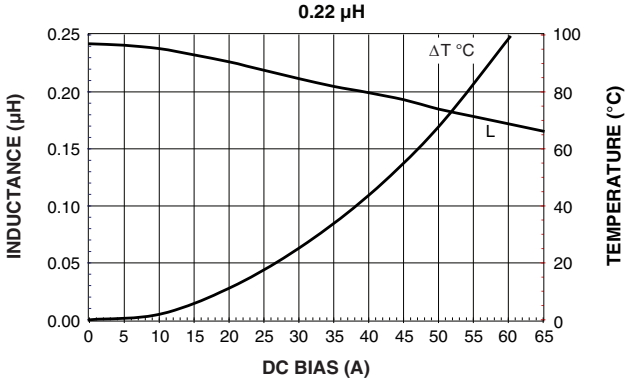
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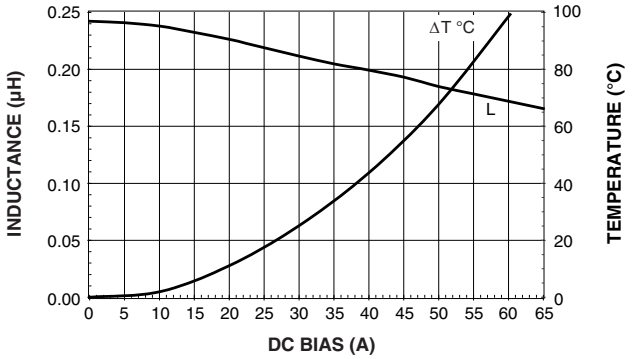
0.19 µH



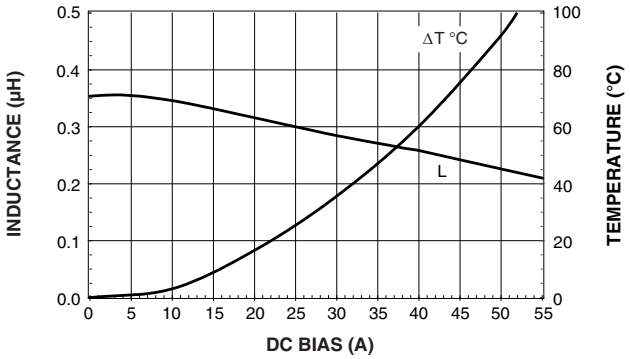
0.22 µH



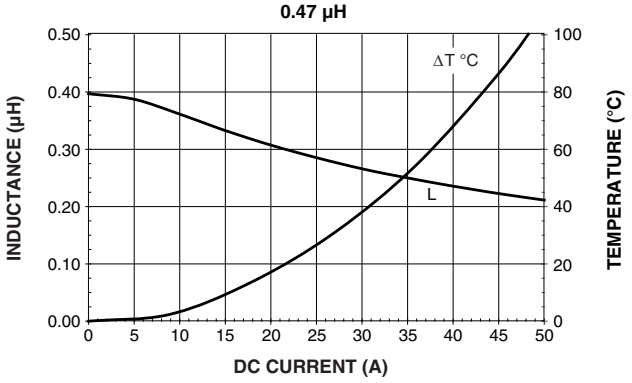
0.24 µH



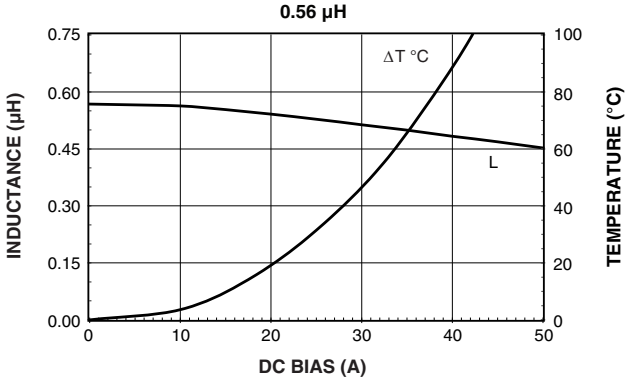
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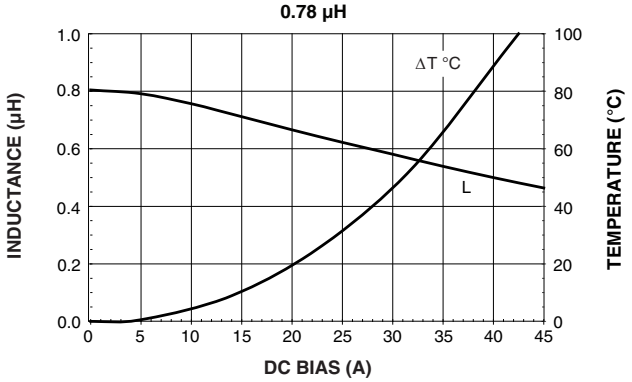
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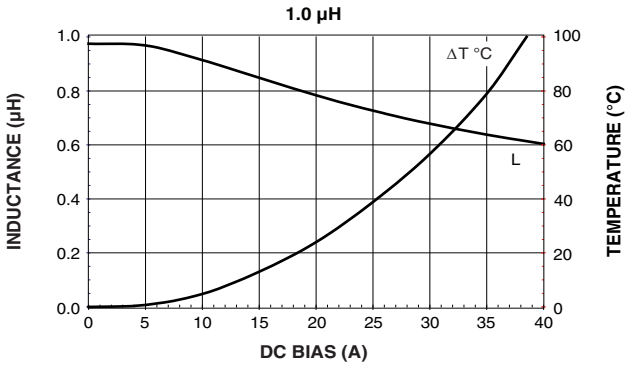
0.56 µH



0.78 µH



1.0 µH

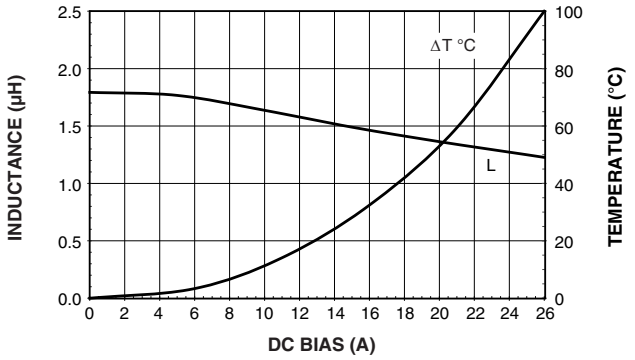


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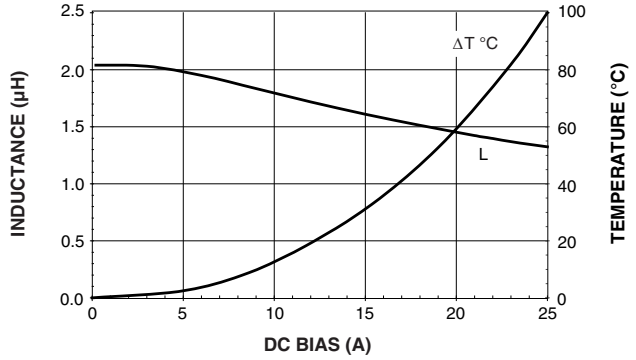
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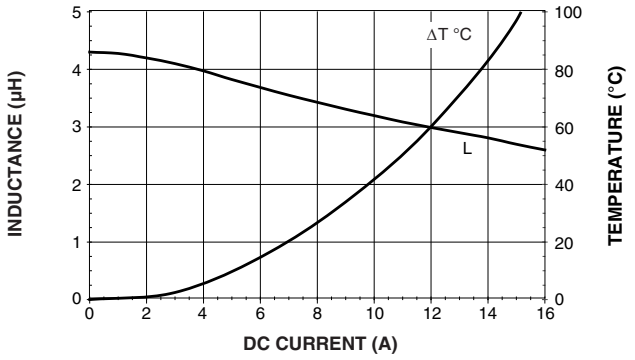
1.8 µH



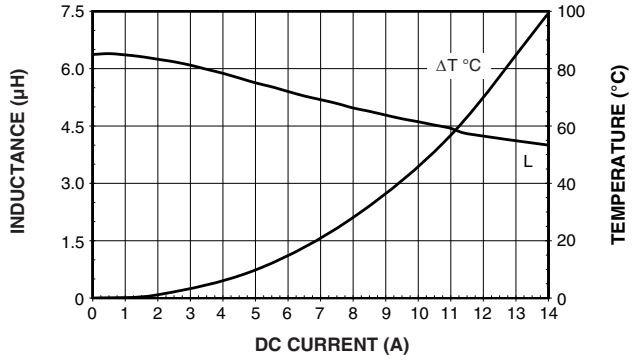
2.0 µH



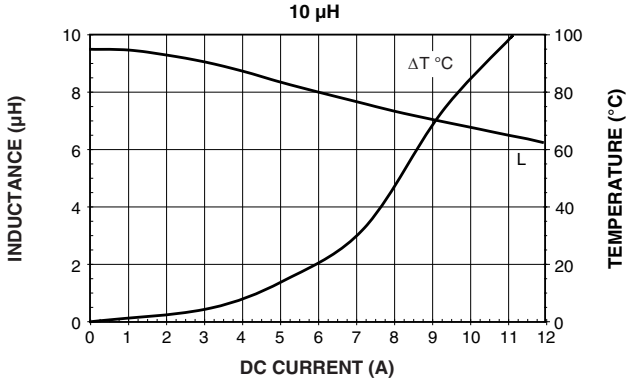
4.7 µH



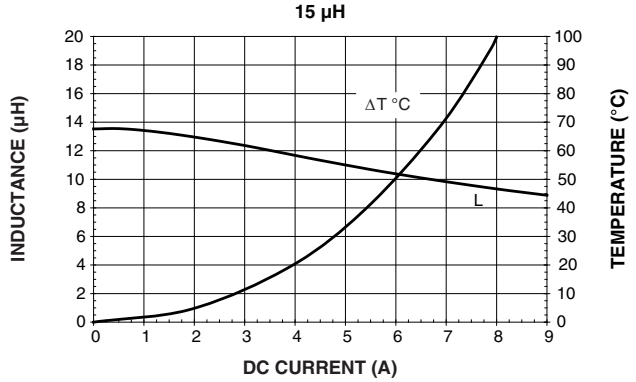
6.8 µH



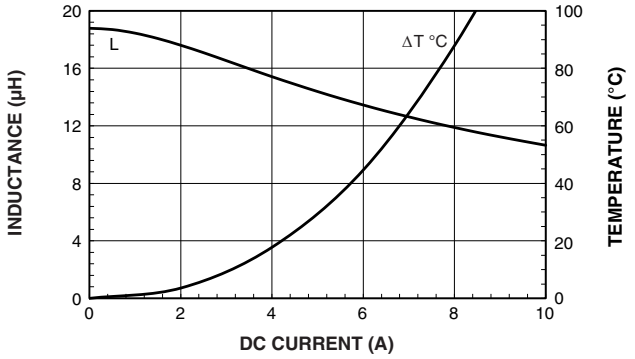
10 µH



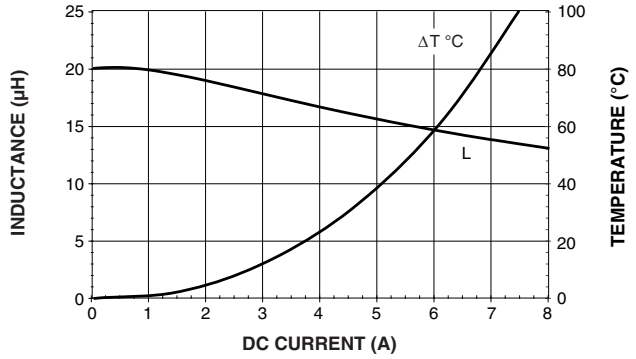
15 µH



18 µH



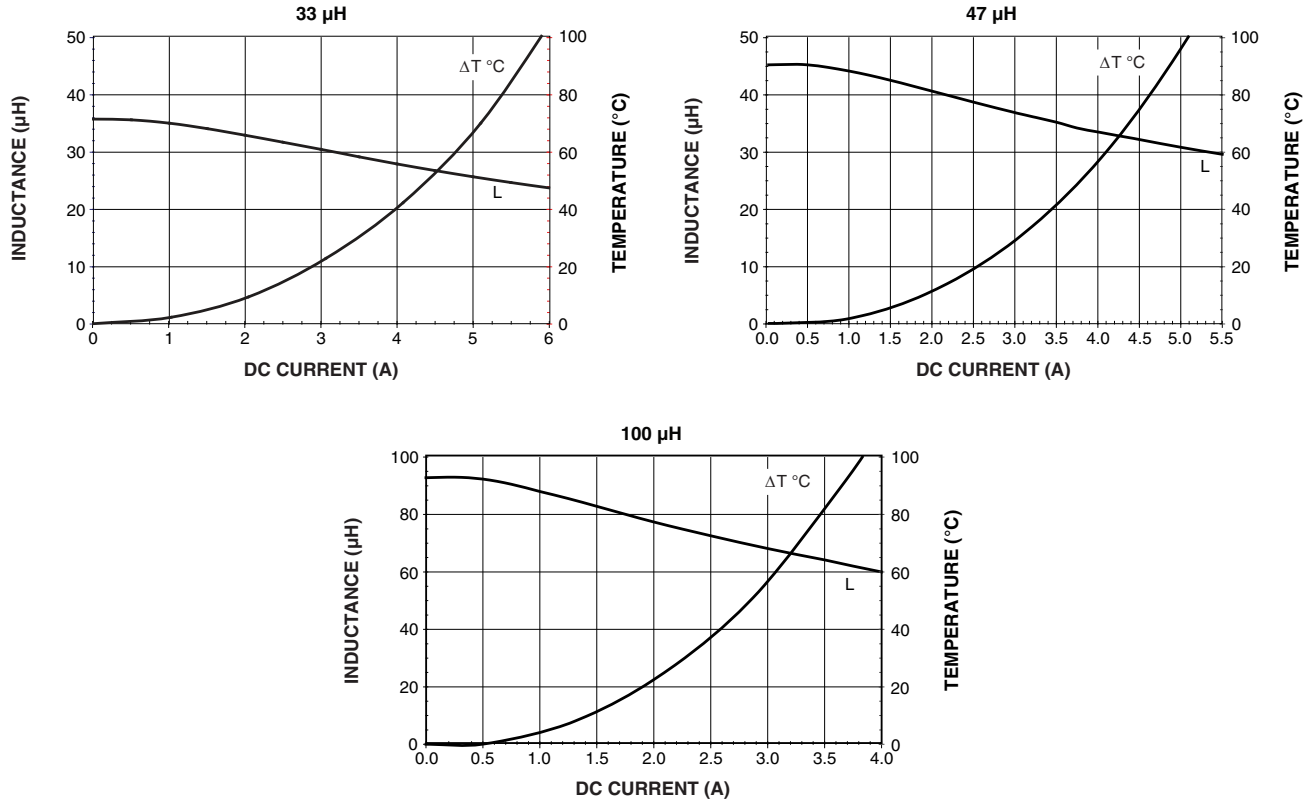
22 µH



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