

IHLP® Tin / Lead Inductors, Low DCR Series



FEATURES

- 3.56 mm x 3.3 mm x 1.2mm SMD package
- Magnetically shielded, metal composite construction
- Optimized for low DCR
- Termination: matte 60Sn/40Pb plating
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

APPLICATIONS

- DC/DC converters
- Telecommunications equipment
- Noise suppression and filtering

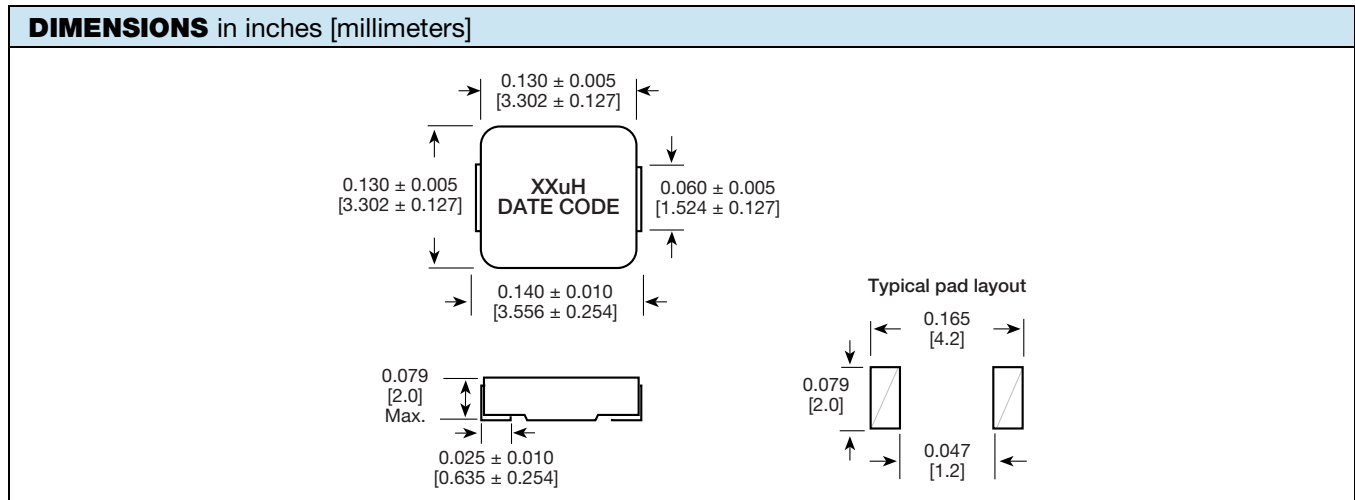
LINKS TO ADDITIONAL RESOURCES


[Product Page](#)

| 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) | | SRF TYP. (MHz) |
| | | | | | 20 % DROP ⁽²⁾ | 30 % DROP ⁽³⁾ | |
| IHLP1212BZRZ22M1L | 0.22 | 10.1 | 10.9 | 9.7 | 5.4 | 8.1 | 211 |
| IHLP1212BZRZ56M1L | 0.56 | 17.2 | 18.4 | 7.5 | 3.6 | 5.3 | 140 |
| IHLP1212BZRZ1R0M1L | 1.0 | 33.7 | 36.0 | 5.3 | 3.4 | 5.0 | 75 |
| IHLP1212BZRZ2R2M1L | 2.2 | 56 | 59.9 | 4.6 | 2.3 | 3.4 | 54 |

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) = 40 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 %
 (3) DC current (A) that will cause L₀ to drop approximately 30 %

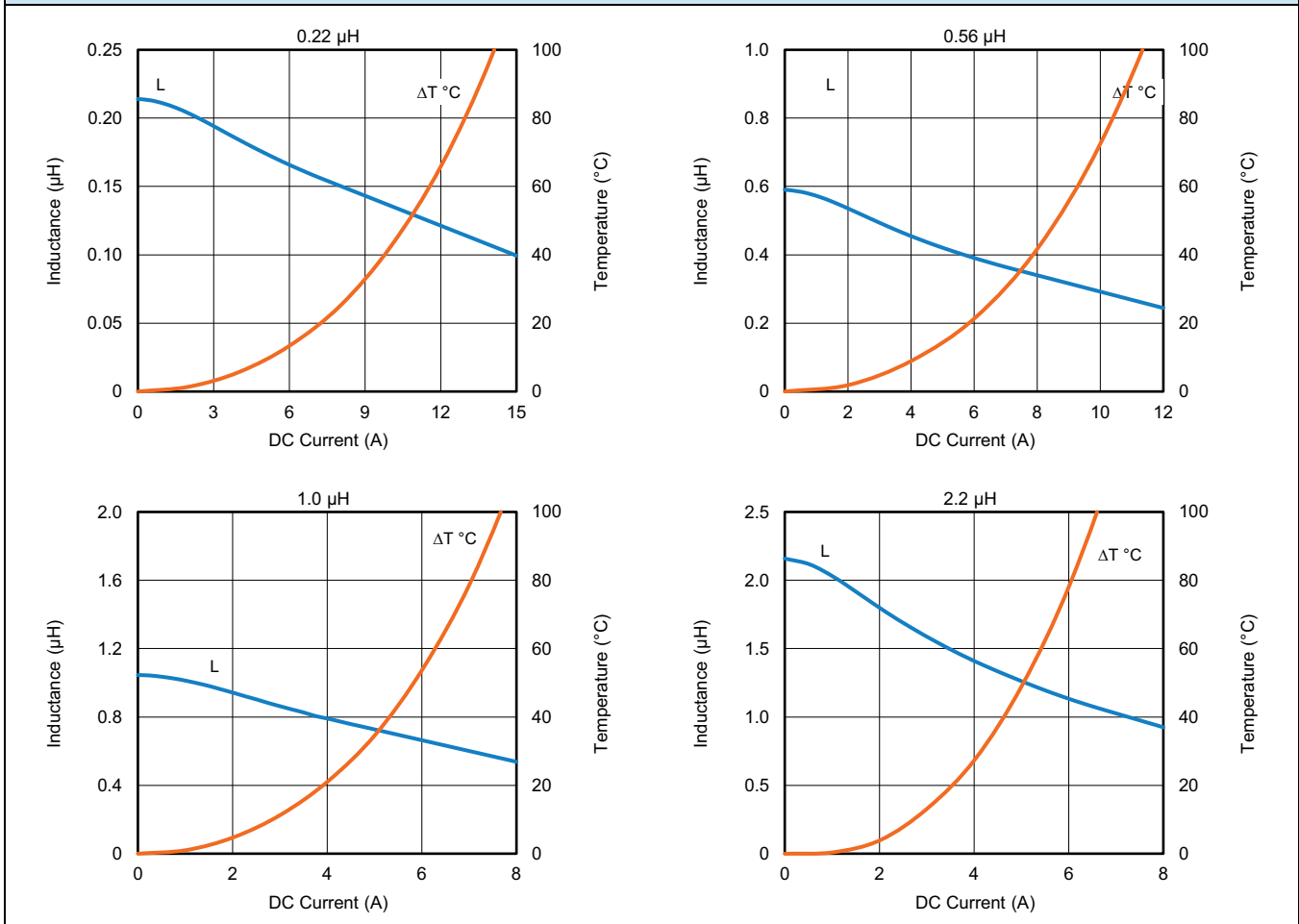




| DESCRIPTION | | | |
|-------------------------|---------------------------------|------------------------------------|--------------------|
| IHLP-1212BZ-1L MODEL | 2.2 μ H INDUCTANCE VALUE | ± 20 % INDUCTANCE TOLERANCE | RZ PACKAGE CODE |

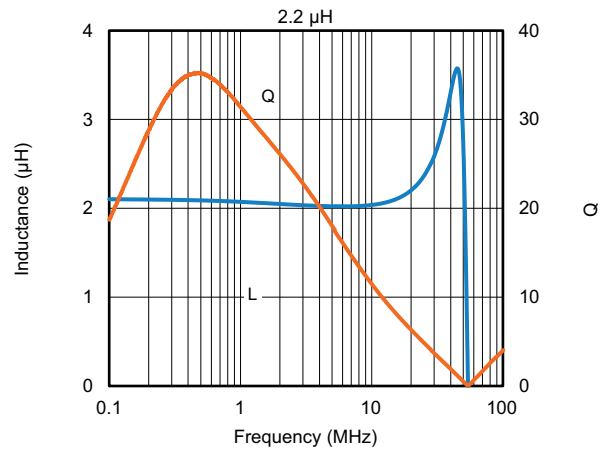
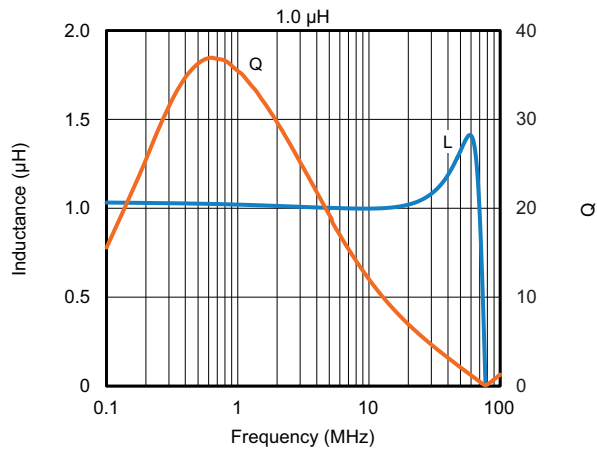
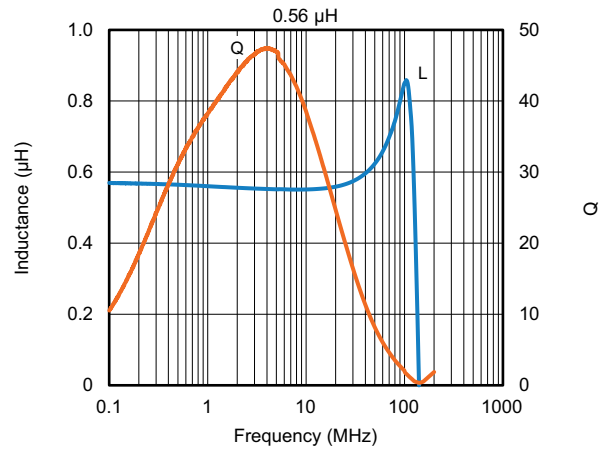
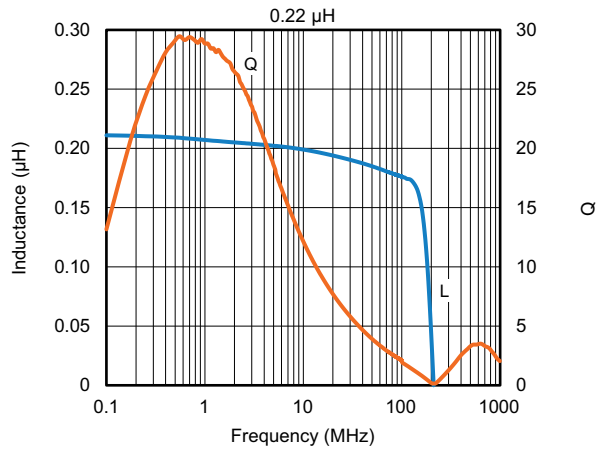
| GLOBAL PART NUMBER | | | | | |
|--------------------|-------------|--|-------------------|----------------|--------|
| I H L P | 1 2 1 2 B Z | R Z | 2 R 2 | M | 1 L |
| PRODUCT FAMILY | SIZE | PACKAGE CODE | INDUCTANCE VALUE | TOLERANCE | SERIES |
| | | RZ = tape and reel + SnPb | 2R2 = 2.2 μ H | M = ± 20 % | |
| | | SL = tape and reel + SnPb + single lot date code | | | |

PERFORMANCE GRAPHS: SATURATION AND TEMPERATURE RISE





PERFORMANCE GRAPHS: INDUCTANCE AND Q VS. FREQUENCY





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