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IHLP® Tin / Lead Inductors, Low DCR Series



LINKS TO ADDITIONAL RESOURCES



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 <u>www.vishay.com/doc?99912</u>

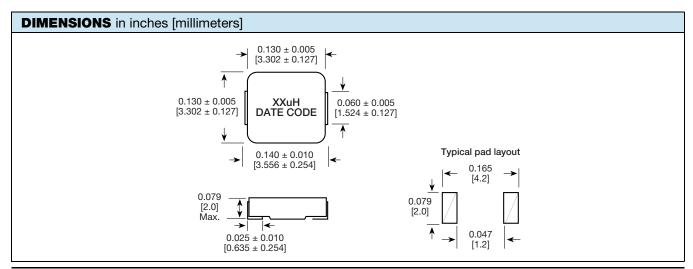
APPLICATIONS

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

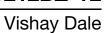
STANDARD ELECTRICAL SPECIFICATIONS									
	L ₀ INDUCTANCE ± 20 % AT 100 kHz,	DCR TYP.	DCR MAX.	HEAT RATING CURRENT	SATURATION CURRENT DC TYP. (A)				
PART NUMBER	0.25 V, 0 A (μH)	25 °C (mΩ)	25 °C (mΩ)	DC TYP. (A) ⁽¹⁾	20 % DROP (2)	30 % DROP (3)	SRF TYP. (MHz)		
IHLP1212BZRZR22M1L	0.22	10.1	10.9	9.7	5.4	8.1	211		
IHLP1212BZRZR56M1L	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 $^{\circ}C$
- $^{(2)}\,$ DC current (A) that will cause L_0 to drop approximately 20 %
- (3) DC current (A) that will cause L₀ to drop approximately 30 %

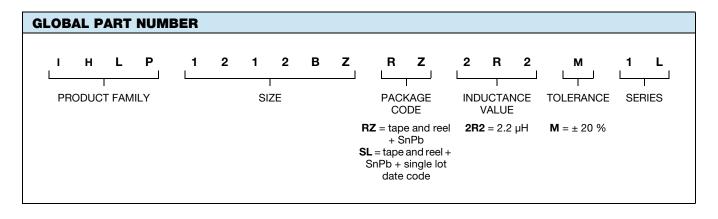


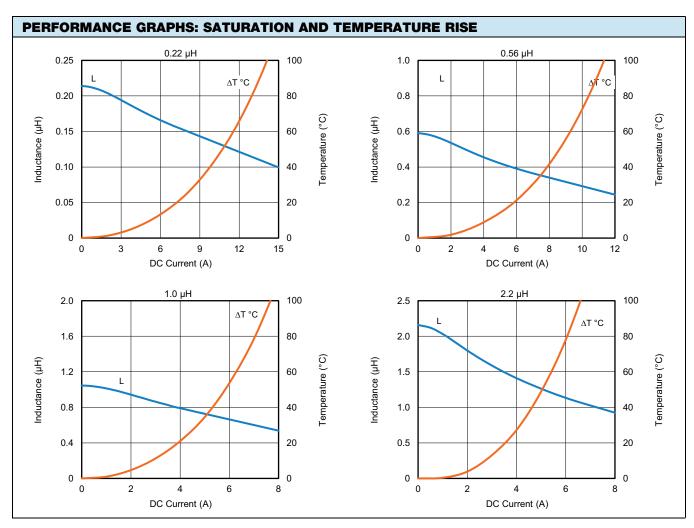
Revision: 03-May-2024 1 Document Number: 34628



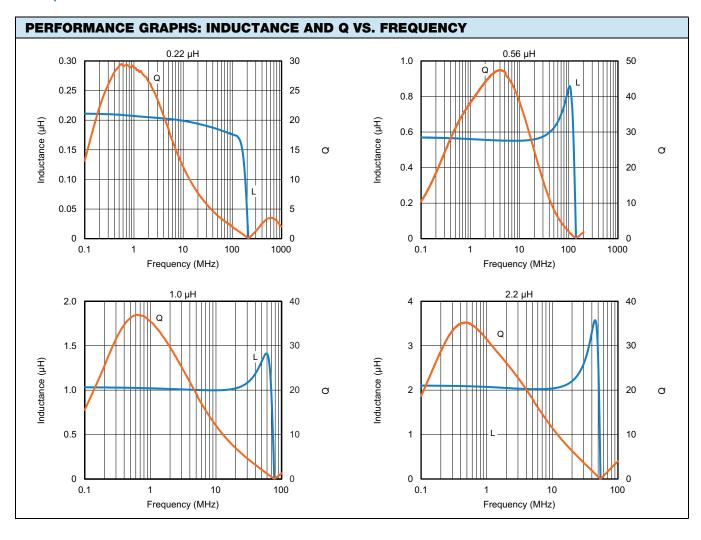


DESCRIPTION			
IHLP-1212BZ-1L	2.2 μΗ	± 20 %	RZ
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE











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