## IHLP-1212BZ-11



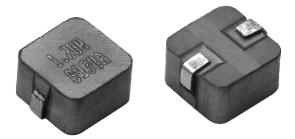
Vishay Dale

RoHS

COMPLIANT HALOGEN

FREE

### Low Profile, High Current IHLP<sup>®</sup> Inductors



Manufactured under one or more of the following: US Patents; 6,198,375/6,204,744/6,449,829/6,460,244. Several foreign patents, and other patents pending.

STANDARD ELECTRICAL SPECIFICATIONS								
L <sub>0</sub> 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) <sup>(3)</sup>	SATURATION CURRENT DC TYP. (A) <sup>(4)</sup>	SFR TYP. (MHz)			
0.22	9.5	11.4	6.5	7.5	245			
0.36	11.5	13.8	6.3	6.5	170			
0.56	16.2	19.4	5.5	5.5	110			
0.68	17.0	20.4	5.5	5.0	105			
0.88	18.5	22.0	5.5	4.5	85			
1.0	20.0	24.0	5.0	4.5	75			
1.2	23.0	27.0	5.0	4.0	65			
1.5	28.5	32.0	3.8	4.0	70			
2.2	42.9	46.0	3.0	3.3	55			
3.3	56.0	61.0	2.7	3.3	45			

#### Notes

(1) All test data is referenced to 25 °C ambient

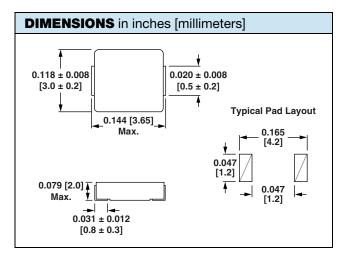
- <sup>(2)</sup> Operating temperature range 55 °C to + 125 °C
- <sup>(3)</sup> DC current (A) that will cause an approximate  $\Delta T$  of 40 °C
- $^{(4)}\,$  DC current (A) that will cause  $L_0$  to drop approximately 20 %
- (5) The part temperature (ambient + temp. rise) should not exceed 125 °C 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.

### **FEATURES**

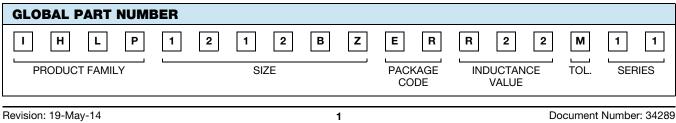
- Shielded construction
- Excellent DC/DC energy storage up to 1 MHz to 2 MHz. Filter inductor applications up to SFR (see table below)
- Lowest DCR/µH, in this package size
- Handles high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

#### **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)
- Currently not recommended for automotive applications



DESCRIPTION							
IHLP-1212BZ-11	0.22 μH	± 20 %	ER	e3			
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD			



For technical questions, contact: magnetics@vishay.com

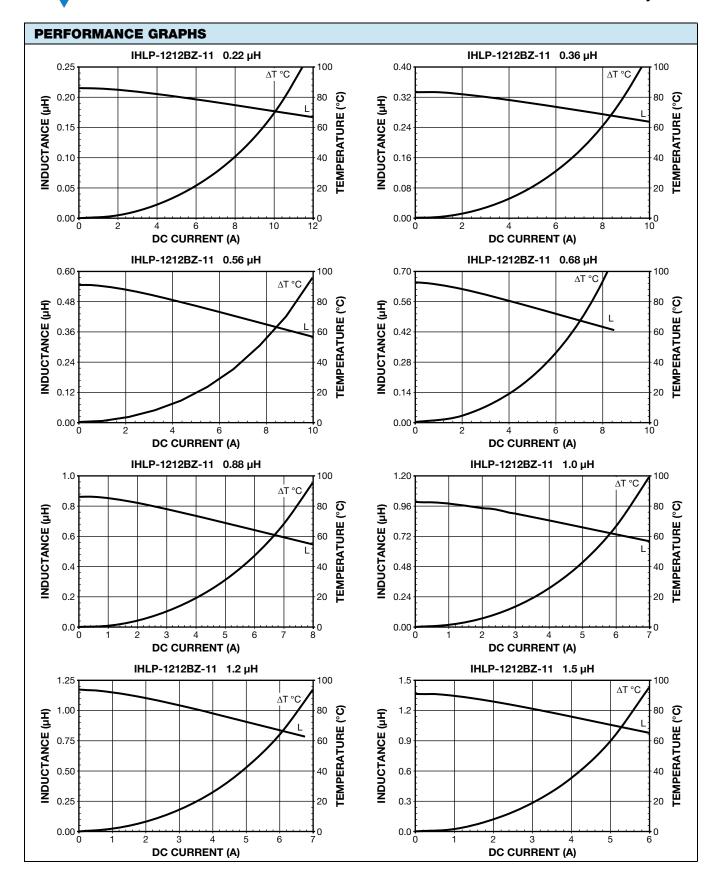
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Revision: 19-May-14

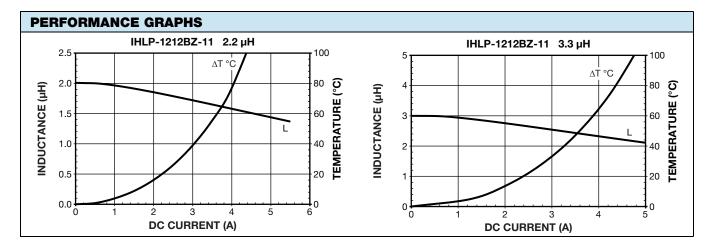
2 For technical questions, contact: <u>magnetics@vishay.com</u> Document Number: 34289

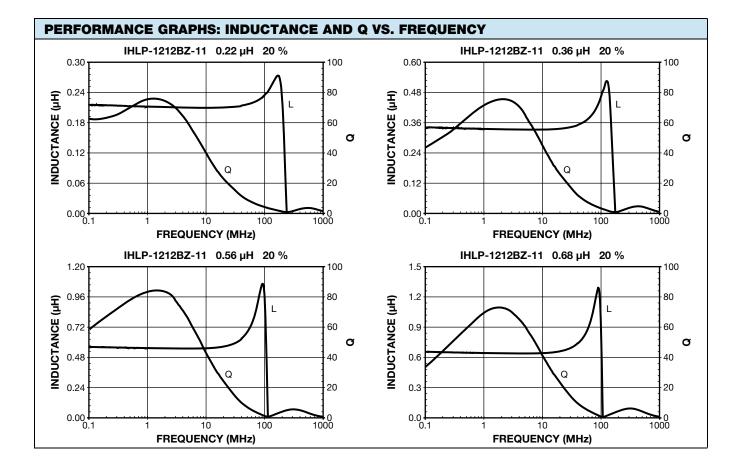
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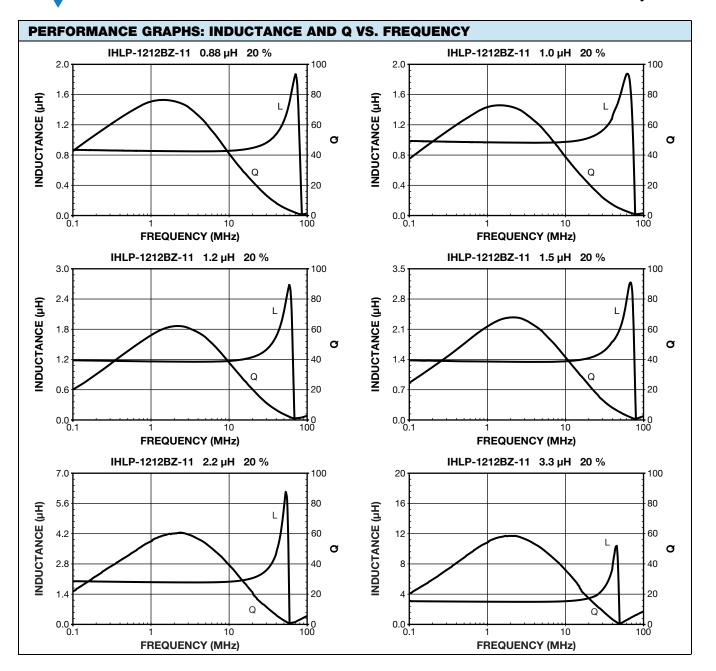
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