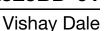
### IHLP-2525BD-01



## Low Profile, High Current IHLP® 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>				
0.1	1.5	1.7	30	50				
0.22	2.9	3.2	21	34				
0.33	3.7	4.1	18	22				
0.47	6.0	6.5	13.5	21				
0.68	8.7	9.4	11	18				
0.82	10.6	11.8	10	17				
1.0	13.1	14.2	9.0	16				
1.5	18.5	21.2	7.5	15				
2.2	28.0	34.0	6.5	14				
3.3	36.5	51.6	5.0	13				
4.7	45.2	63.0	4.5	10				
6.8	72.5	95.0	3.5	9				
8.2	84.2	106	3.0	8				
10	115.6	129	2.5	7				

### Notes

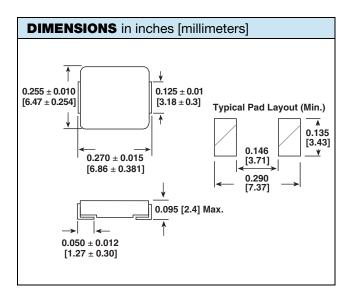
- <sup>(1)</sup> All test data is referenced to 25 °C ambient
- <sup>(2)</sup> Operating temperature range 55 °C to + 125 °C
- $^{(3)}$  DC current (A) that will cause an approximate  $\Delta T$  of 40 °C
- $^{(4)}$  DC current (A) that will cause L<sub>0</sub> to drop approximately 20 %
- <sup>(5)</sup> 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

- · Lowest height (2.4 mm) in this package footprint
- Shielded construction
- Frequency range up to 5.0 MHz
- Lowest DCR/µH, in this package size
- Handles high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction
- Compliant to RoHS Directive 2002/95/EC

#### **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)



DESCRIPTION							
IHLP-2525BD-01	1.0 µH	<b>± 20</b> %	ER	e3			
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FRE	(Pb)-FREE STANDARD		
GLOBAL PART NUMBER							
I H L	P 2 5	2 5 B D	E R 1	R 0 M	0 1		
PRODUCT FAMI	PRODUCT FAMILY SIZE		PACKAGE IN CODE	DUCTANCE TOL. VALUE	SERIES		

\*\* Please see document "Vishay Material Category Policy": www.vishay.com/doc?99902

DESCRIPTION

For technical questions, contact: magnetics@vishay.com



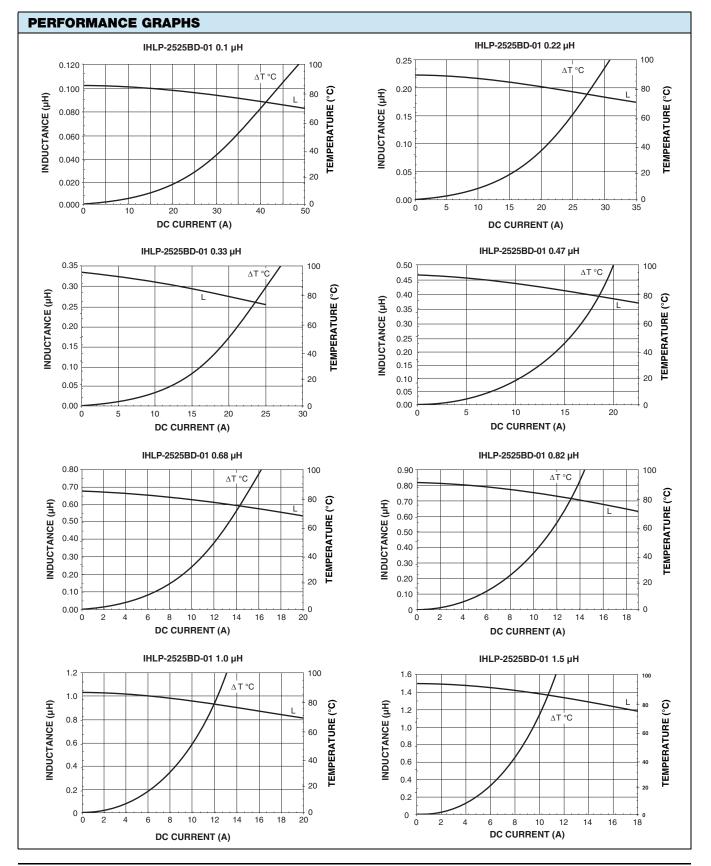
COMPLIANT

<u>GREEN</u> (5-2008)\*\*



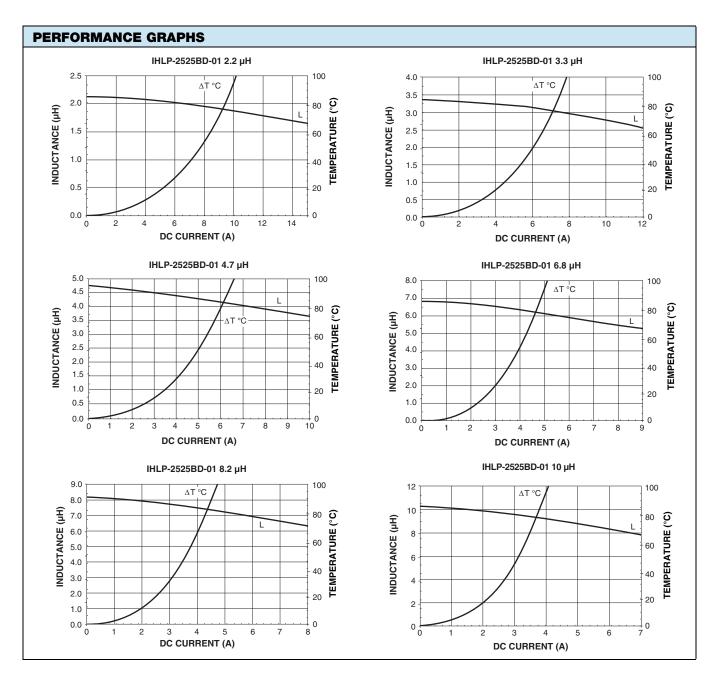
Vishay Dale







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