

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



# Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









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RoHS

COMPLIANT

**HALOGEN** 

FREE

**GREEN** 

(5-2008)

# IHLP® Commercial Inductors, High Saturation Series



### **DESIGN SUPPORT TOOLS** click logo to get started





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) (1)	SATURATION CURRENT DC TYP. (A) (2)
0.10	0.53	0.60	55	118
0.22	0.64	0.80	51	110
0.33	0.85	1.1	42	80
0.47	1.1	1.3	38	65
0.56	1.3	1.5	36	55
0.68	1.5	1.7	34	54
0.82	2.0	2.3	31	53
1.0	2.1	2.5	29	50
1.5	3.4	4.1	23	48
1.8	4.2	4.9	19	40
2.2	4.6	5.5	20	32
3.3	7.7	9.2	15	32
4.7	12.8	15.0	12	27
5.6	14.0	16.5	11.5	22
6.8	15.4	18.5	11	21
7.8	17.2	20.5	10	18
8.2	18.9	22.5	9.5	18
10	21.4	25.5	9.0	16

### Notes

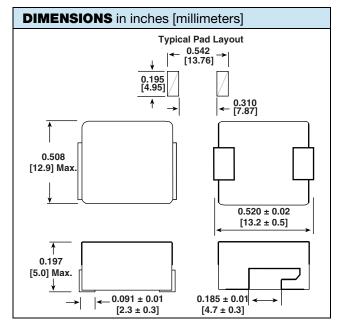
- · All test data is referenced to 25 °C ambient
- Operating temperature range -55 °C to +125 °C
- The part temperature (ambient + temp. rise) should not exceed 125 °C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
- Rated operating voltage (across inductor) = 75 V
- $^{(1)}$  DC current (A) that will cause an approximate  $\Delta T$  of 40  $^{\circ} C$
- (2) DC current (A) that will cause L<sub>0</sub> to drop approximately 20 %

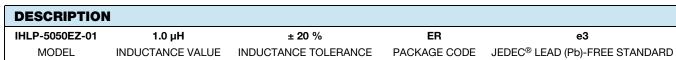
#### **FEATURES**

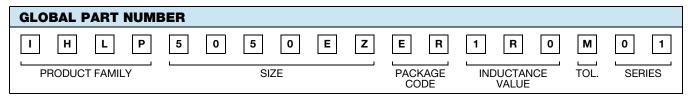
- Shielded construction
- Frequency range up to 5.0 MHz
- Lowest DCR/µH, in this package size
- Handles high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction
- IHLP design. PATENT(S): www.vishav.com/patents
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

#### **APPLICATIONS**

- 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)



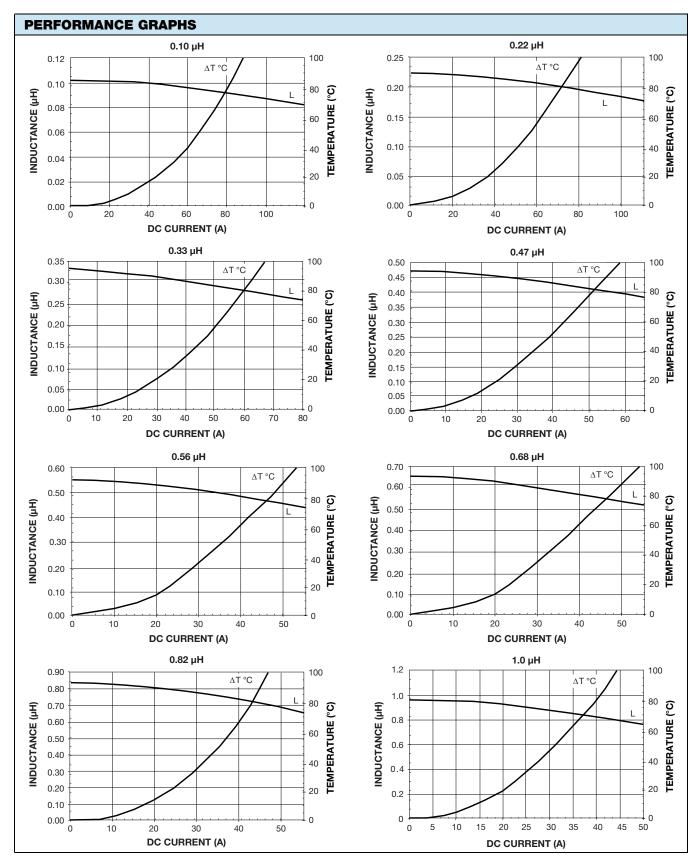




PATENT(S): www.vishay.com/patents

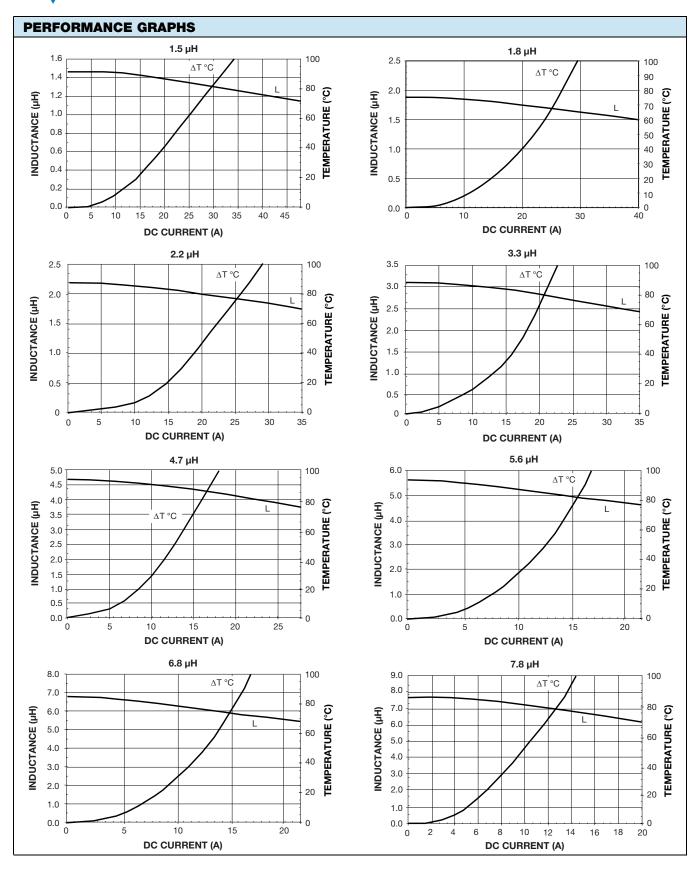
This Vishay product is protected by one or more United States and international patents.







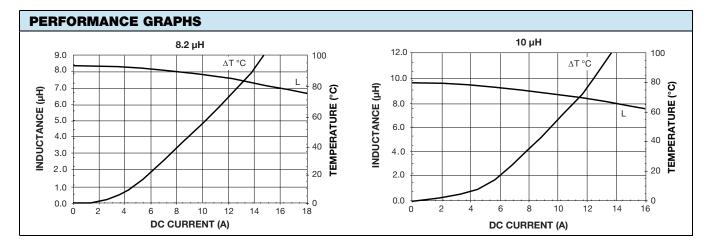






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