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RoHS

COMPLIANT

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# IHLP® Commercial Inductors, High Saturation Series





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





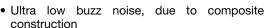
STANDARD ELECTRICAL SPECIFICATIONS					
L <sub>0</sub> INDUCTANCE ± 20 % AT 100 kHz, 0.25 V, 0 A (μH)	DCR TYP. 25 °C (mΩ)	DCR MAX. 25 °C (mΩ)	HEAT RATING CURRENT DC TYP. (A) <sup>(1)</sup>	SATURATION CURRENT DC TYP. (A) (2)	SRF TYP. (MHz)
0.10	4.32	4.60	13.5	35	256
0.47	18.2	19.2	6.5	18	108
1.0	44.3	46.5	4.4	10.2	64
2.2	73.6	77.3	3.4	6	47
3.3	98.4	103	2.8	5	33
4.7	159	168	2.2	4.4	30

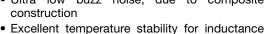
#### Notes

- 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) = 50 V
- <sup>(1)</sup> DC current (A) that will cause an approximate  $\Delta T$  of 40 °C
- $^{(2)}\,$  DC current (A) that will cause  $L_0$  to drop approximately 20 %

#### **FEATURES**

- Shielded construction
- Lowest DCR/µH, in this package size
- · Handles high transient current spikes without saturation



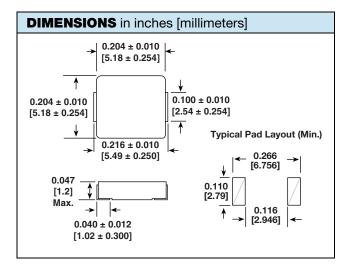


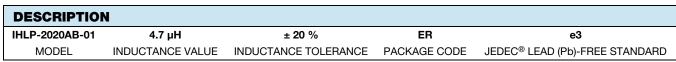
(5-2008)and saturation Excellent DC/DC energy storage up to 5 MHz. Filter

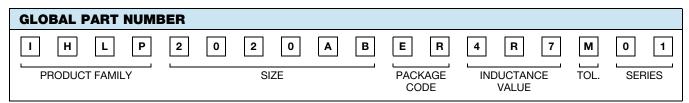
- inductor applications up to SRF (see "Standard Electrical Specifications" table)
- IHLP design. PATENT(S): www.vishay.com/patents
- · Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

#### **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)



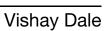




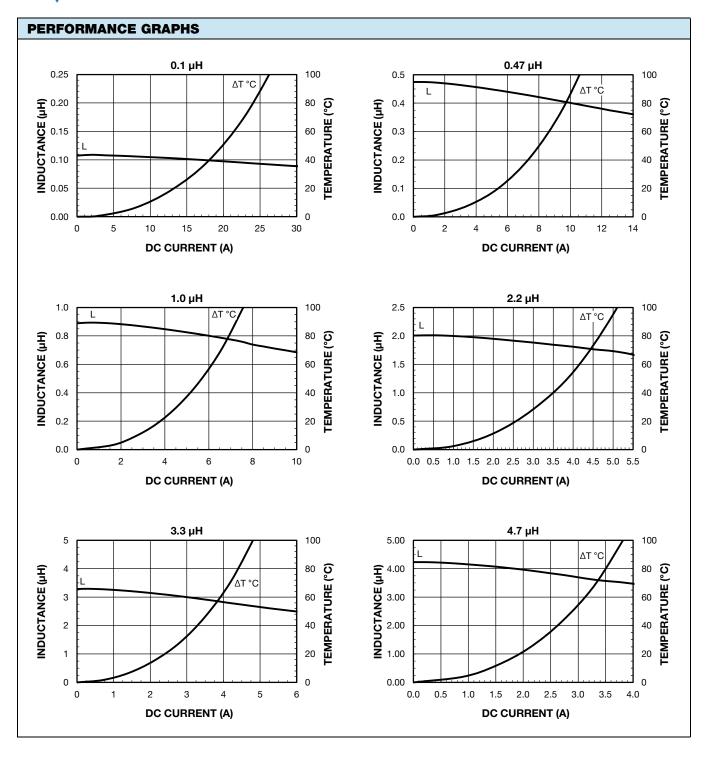
PATENT(S): www.vishay.com/patents

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

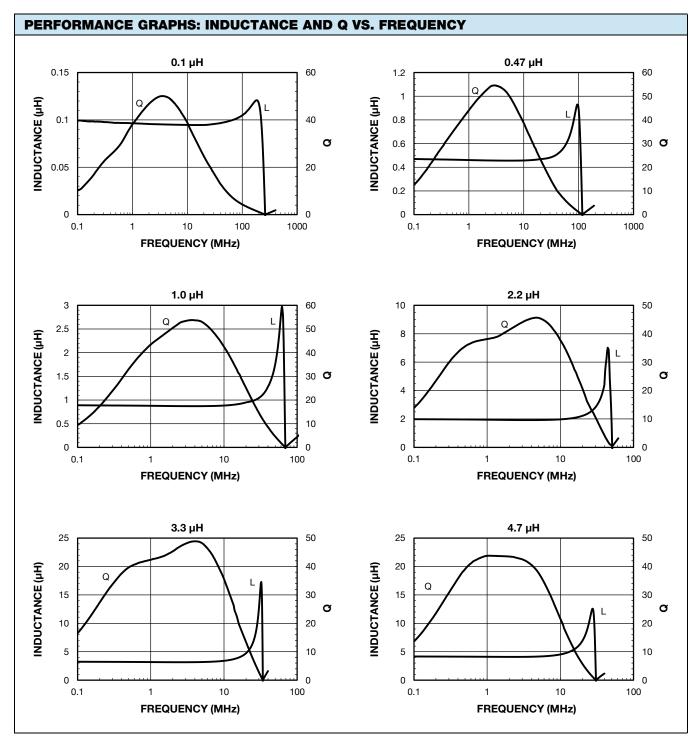
Revision: 07-Jun-17











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