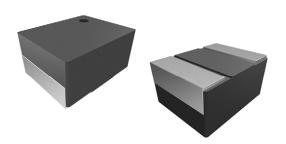


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Vishay Dale

RoHS COMPLIANT

# **Low Profile, High Current Inductors**



| STANDARD ELECTRICAL SPECIFICATIONS                         |                      |      |  |      |   |      |
|--|----------------------|------|--|------|---|------|
| L <sub>0</sub> INDUCTANCE ± 20 % AT 1 MHz, 1.0 V, 0 A (μH) | DCR<br>25 °C<br>(mΩ) |      | HEAT RATING<br>CURRENT<br>DC<br>(A) <sup>(3)</sup> |      | SATURATION<br>CURRENT<br>DC<br>(A) <sup>(4)</sup> |      |
|  | TYP.                 | MAX. | TYP.   | MAX. | TYP.  | MAX. |
| 0.47   | 26                   | 33   | 3.9  | 3.7  | 4.8   | 4.3  |
| 1.0  | 45                   | 55   | 3.5  | 3.2  | 3.8   | 3.3  |
| 2.2  | 90                   | 110  | 1.8  | 1.6  | 2.1   | 1.9  |

#### **Notes**

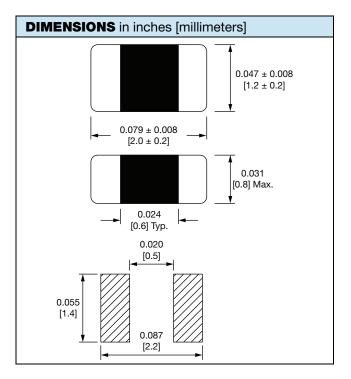
- (1) All test data is referenced to 25 °C ambient
- (2) Operating temperature range -55 °C to +125 °C
- $^{(3)}$  DC current (A) that will cause an approximate  $\Delta T$  of 40  $^{\circ}C$
- (4) DC current (A) that will cause L<sub>0</sub> to drop approximately 30 %
- (5) The part temperature (ambient + 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

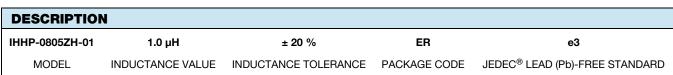
#### **FEATURES**

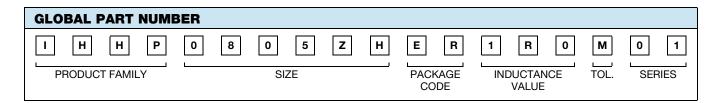
- Composite powdered iron construction
- Miniature size (2.0 x 1.2) and low profile
- · Magnetic shielded
- Low DCR and core loss for improved efficiency
- Material categorization: for definitions of compliance please see <a href="https://www.vishay.com/doc?99912"><u>www.vishay.com/doc?99912</u></a>

### **APPLICATIONS**

- Portable electronics
- Tablets and notebook computers
- POL DC/DC converters
- Battery powered devices
- Internet of things (IoT) devices

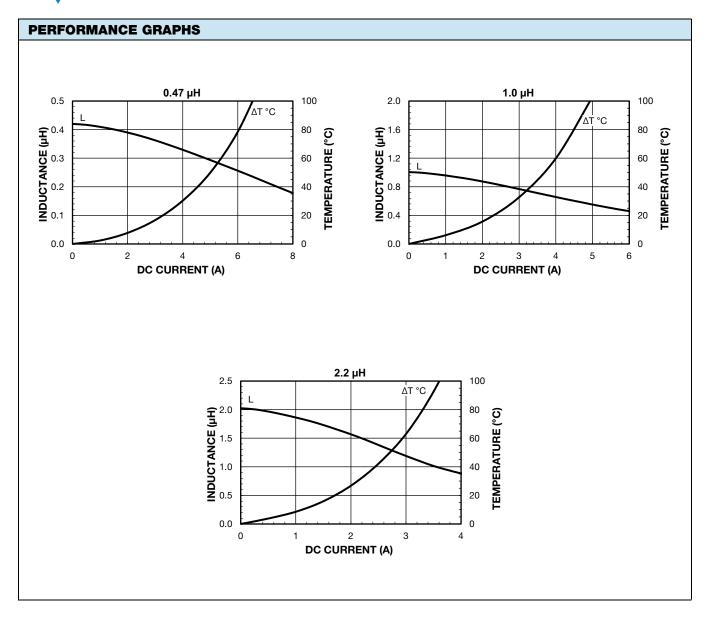






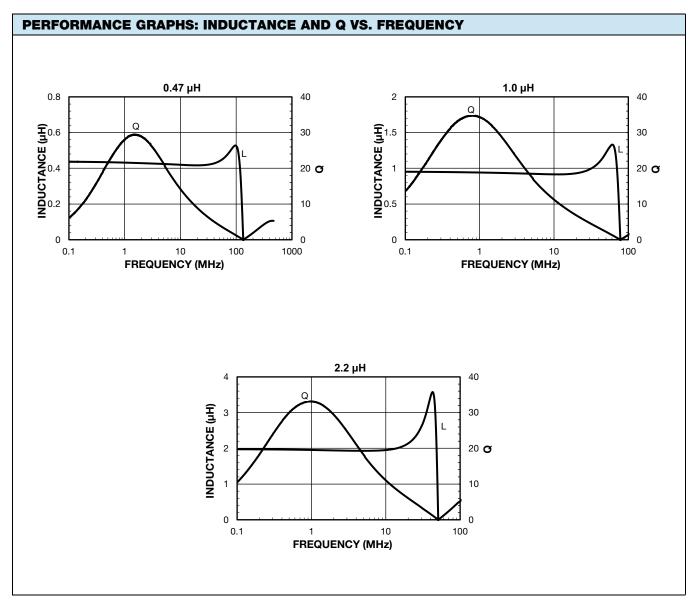


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## **Legal Disclaimer Notice**

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