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Vishay Dale

COMPLIANT

HALOGEN FREE

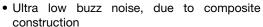
GREEN

High Current Through-Hole Inductor, High Temperature



FEATURES

- High temperature, up to 155 °C
- Shielded construction
- Frequency range up to 5.0 MHz
- Handles high transient current spikes without saturation





APPLICATIONS

- Industrial high current filters
- · Switching regulators
- In-line noise filters
- · Differential mode choke
- Boost power factor correction choke
- Solar power / wind power applications

| STANDARD ELECTRICAL SPECIFICATIONS | | | | | | | | | | |
|---|------------------------------|------------------------------|---|---|--|--|--|--|--|--|
| L ₀ INDUCTANCE ± 20 % AT 500 kHz, 2 V, 0 A (μH) | DCR TYP. 25 °C (mΩ) | DCR MAX. 25 °C (mΩ) | HEAT RATING CURRENT DC TYP. (A) ⁽³⁾ | HEAT RATING CURRENT DC TYP. (A) ⁽⁴⁾ | SATURATION CURRENT DC TYP. (A) ⁽⁵⁾ | SATURATION CURRENT DC TYP. (A) ⁽⁶⁾ | | | | |
| 0.68 | 0.12 | 0.13 | 154 | 235 | 301 | 420 | | | | |
| 0.82 | 0.17 | 0.18 | 132 | 196 | 235 | 332 | | | | |
| 1.5 | 0.25 | 0.26 | 120 | 178 | 138 | 193 | | | | |
| 2.2 | 0.32 | 0.34 | 115 | 168 | 104 | 150 | | | | |
| 3.3 | 0.40 | 0.42 | 96 | 150 | 87 | 124 | | | | |

Notes

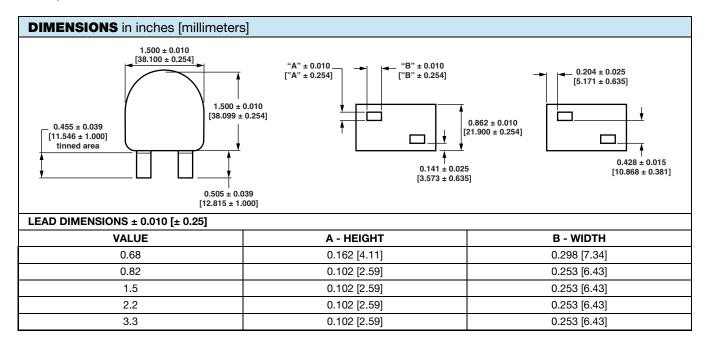
- (1) All test data is referenced to 25 °C ambient
- $^{(2)}$ Operating temperature range -55 °C to +155 °C
- $^{(3)}$ DC current (A) that will cause an approximate ΔT of 40 $^{\circ}$ C after one hour
- $^{(4)}\,$ DC current (A) that will cause an approximate ΔT of 100 °C after one hour
- $^{(5)}$ DC current (A) that will cause L₀ to drop approximately 20 %
- $^{(6)}$ DC current (A) that will cause L_0 to drop approximately 30 %
- (7) The part temperature (ambient + temp. rise) should not exceed 155 °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

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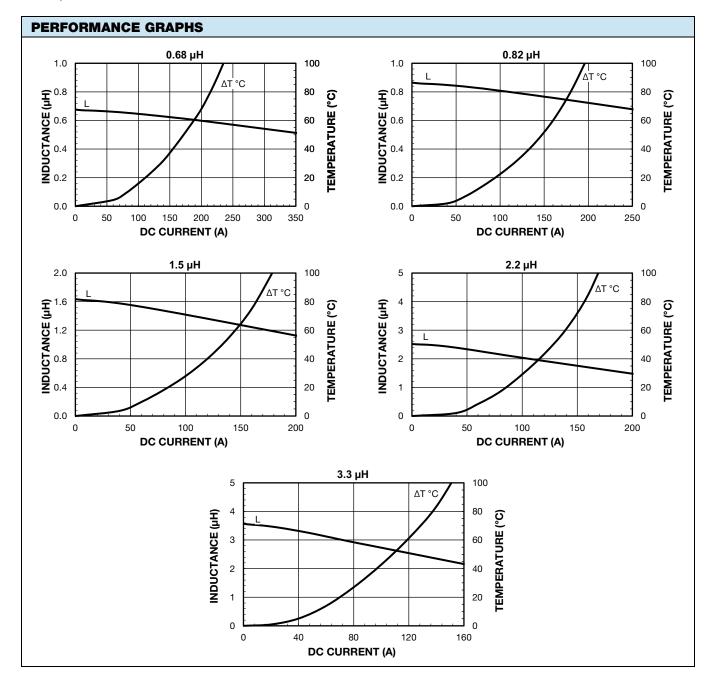
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| DESCRIPTION | | | | | | | | | |
|----------------|------------------|----------------------|--------------|--------------------------------|--|--|--|--|--|
| IHXL-1500VZ-51 | 2.2 μΗ | ± 20 % | EB | e3 | | | | | |
| MODEL | INDUCTANCE VALUE | INDUCTANCE TOLERANCE | PACKAGE CODE | JEDEC® LEAD (Pb)-FREE STANDARD | | | | | |

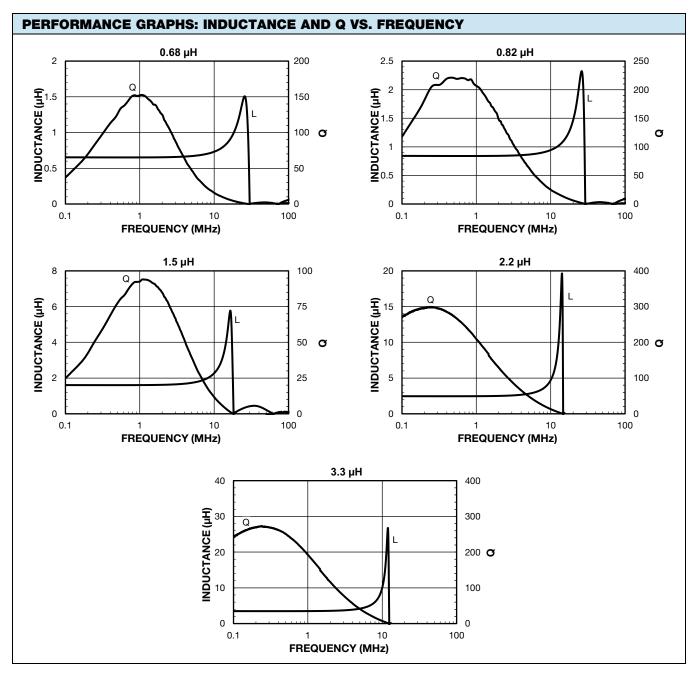
| GLOBAL PART NUMBER | | | | | | | | | |
|--------------------|---------|--------------|-------------------------|----------------------|--|--|--|--|--|
| PRODUCT FAMILY | 0 0 V Z | PACKAGE CODE | 2 R 2 INDUCTANCE VALUE | M 5 1 TOL. SERIES | | | | | |







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