



IHXL-1500VZ-5A Automotive Grade Through-Hole Inductor Delivers 420 A Saturation Current in Compact 1500 Case Size; AEC-Q200 Qualified Device Offers Continuous High Temp. Operation to +155 °C

Product Benefits:

- AEC-Q200 qualified
- Up to 235 A continuous rated current
- 420 A saturation current
- Compact 1500 case size
- Very low typical DCR down to 0.12 mΩ
- Continuous high temperature operation to +155 °C
- Through-hole leads can be configured upon request for other termination methods
- Handles high transient current spikes without hard saturation
- RoHS-compliant, halogen-free, and [Vishay Green](#)



Market Applications:

- High current input filters and 12 V / 24 V / 48 V DC/DC converters for switching regulators, differential mode and boost power factor correction chokes, and battery charging systems

The News:

Vishay Intertechnology introduces a new Automotive Grade through-hole inductor that delivers a 420 A saturation current for 30 % inductance reduction in a compact 1500 case size. For automotive applications, the Vishay Dale IHXL-1500VZ-5A offers very low typical DCR down to 0.12 mΩ and continuous high temperature operation to +155 °C.

- Shielded, composite construction of the IHXL-1500VZ-5A enables a compact size of 38.1 mm by 38.1 mm by 21.9 mm to support up to 235 A of continuous DC current
- The device can replace much larger and more expensive competing solutions
- High resistance to thermal shock, moisture, and mechanical shock
- Through-hole lead configuration can be modified at the customer's request to accommodate a bolt-on or weld termination



The Key Specifications:

| | |
|-------------------------------|------------------------------------------------------|
| Case size | 1500 |
| Dimensions (mm) | 38.1 x 38.1 x 21.9 |
| Inductance (μH) | 0.68 to 3.3 |
| DCR typ. ($\text{m}\Omega$) | 0.12 to 0.40 |
| DCR max. ($\text{m}\Omega$) | 0.13 to 0.42 |
| Heat rating current (A) | 96 to 154 ⁽¹⁾ / 150 to 235 ⁽²⁾ |
| Saturation current (A) | 87 to 301 ⁽³⁾ / 124 to 420 ⁽⁴⁾ |

⁽¹⁾ DC current (A) that will cause an approximate ΔT of 40 °C after one hour

⁽²⁾ DC current (A) that will cause an approximate ΔT of 100 °C after one hour

⁽³⁾ DC current (A) that will cause L_0 to drop approximately 20 %

⁽⁴⁾ DC current (A) that will cause L_0 to drop approximately 30 %

Availability:

Samples and production quantities of the IHXL-1500VZ-5A are available now, with lead times of eight to 10 weeks.

To access the product datasheet on the Vishay Website, go to <http://www.vishay.com/ppg?34568> (IHXL-1500VZ-5A)

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