IHXL-1500VZ-51 Through-Hole Inductor Packs 420 A Saturation Current Into Compact 1500 Case Size, Offers Continuous Operation to +155 °C for Renewable Energy, Industrial, and Telecom Applications

Product Benefits:

- 420 A saturation current
- Compact 1500 case size
- Very low typical DCR down to 0.12 mΩ
- Continuous high temperature operation to +155 °C
- Handles high transient current spikes without hard saturation
- Offers soft saturation of 20 % at 195 % of rated current
- RoHS-compliant, halogen-free, and Vishay Green

Market Applications:

- High current input filters and DC/DC converters for high temperature industrial and solar and wind power applications; switching regulators; differential mode and boost power factor correction chokes; and telecom base station power supplies

The News:

Vishay Intertechnology introduces a new through-hole inductor that delivers a 420 A saturation current for 30 % inductance reduction in a compact 1500 case size. For renewable energy, industrial, and telecom applications, the Vishay Dale IHXL-1500VZ-51 offers very low typical DCR down to 0.12 mΩ and continuous high temperature operation to +155 °C.

- The shielded, composite construction of the IHXL-1500VZ-51 enables a compact size of 38.1 mm by 38.1 mm by 21.9 mm
- The device can replace much larger competing solutions
- High resistance to thermal shock, moisture, and mechanical shock
- Termination configuration can be modified upon request

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. (mΩ)	0.12 to 0.40
DCR max. (mΩ)	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-51 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?34561 (IHXL-1500VZ-51)

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