

New Vertical-Mount IHVR-4024KE-51 High Current Inductor in Compact 4024 Case Size Offers 50 % Lower DCR Than Typical Power Inductors for Improved Saturation and Temperature Stability, While Saving Board Space

Product Benefits:

- Low DCR of 0.24 mΩ
- Compact 10 mm by 6 mm by 10 mm 4024 case size
- Vertical-mount design
- High temperature operation to +155 °C
- Handle high transient current spikes without saturation
- RoHS-compliant



Market Applications:

- Energy storage in DC/DC converters and high current filtering in servers and desktop PCs; high current POL converters; multi-phase, high current power supplies; battery-powered devices; distributed power systems; and FPGAs

The News:

Vishay Intertechnology introduces a new high current inductor that provides 50 % lower DCR than typical power inductors for improved efficiency in high frequency DC/DC converters. Using materials and construction similar to the IHLP, the Vishay Dale IHVR-4024KE-51 also boasts excellent saturation and temperature stability. Available in the compact 10 mm by 6 mm by 10 mm 4024 case size, the device enables high current density, while its vertical-mount design saves on board space.

- Optimized for energy storage in DC/DC converters up to 5 MHz
- Provides excellent attenuation of noise in high current filtering applications up to the SRF of the inductor
- Packaged in a 100 % lead (Pb)-free shielded, composite construction that reduces buzz to ultra low levels
- High resistance to thermal shock, moisture, and mechanical shock

The Key Specifications:

Part number	IHVR-4024KE-51
Case size	4024
Inductance @ 100 kHz (μH)	0.12
DCR @ 25 °C (mΩ)	0.24
Saturation current typ. (A)	91 ¹ ; 130 ²
SRF typ. (MHz)	112

¹ DC current (A) that will cause L0 to drop approximately 20 %

² DC current (A) that will cause L0 to drop approximately 30 %



NEW PRODUCT INFORMATION



Product Group: Vishay Dale, Inductors / October 2020

Availability:

Samples and production quantities of the IHVR-4024KE-51 are available now, with lead times of 12 weeks for large orders.

To access the product datasheet on the Vishay Website, go to <http://www.vishay.com/ppg?34558> (IHVR-4024KE-51)

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