

New IHSR-6767GZ-5A Automotive Grade IHSR High Temperature Inductor in 6767 Case Size Delivers High Current Ratings Up to 155 A, Ultra Low DCR of 0.24 mΩ, and Inductance of 0.22 μH

Product Benefits:

- AEC-Q200 qualified
- High current ratings to 155 A
- Offered in the 19.0 mm by 17.1 mm by 7.0 mm 6767 case size
- High operating temperature up to +155 °C
- Low typical DCR of 0.24 mΩ
- Inductance of 0.22 μH
- Handles high transient current spikes without saturation
- No hard saturation, with stable inductance and saturation over the operating temperature range
- RoHS-compliant, halogen-free, and [Vishay Green](#)



Market Applications:

- Filtering and DC/DC conversion in ADAS and LIDAR microprocessors, 12 V / 48 V vacuum-less braking systems, OBCs, and brushless DC electric motors up to 140 A

The News:

Vishay Intertechnology introduces the first AEC-Q200 qualified IHSR high temperature inductor with current ratings to 155 A in the 19.0 mm by 17.1 mm by 7.0 mm 6767 case size. Designed for multi-phase, high current power supplies and input / output filters in automotive under the hood and ADAS applications, the Vishay Dale IHSR-6767GZ-5A offers a 50 % reduction in DCR over typical power inductors and a smaller size than similar ferrite-based solutions.

- Optimized for energy storage in DC/DC converters up to 5 MHz and high current filtering applications
- Low typical DCR and inductance allow for higher current density than competing technologies
- Packaged in a 100 % lead (Pb)-free shielded, composite construction that reduces buzz noise to ultra low levels
- Offers high resistance to thermal shock, moisture, and mechanical shock
- No hard saturation, with more stable inductance and saturation over the operating temperature range than ferrite solutions

The Key Specifications:

Case size	6767
Inductance (μH)	0.22
DCR typ. (mΩ)	0.24
Heat rating current typ. (A)	100 ⁽¹⁾ / 141 ⁽²⁾
Saturation current typ. (A)	107 ⁽³⁾ / 155 ⁽⁴⁾

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



NEW PRODUCT INFORMATION



Product Group: Vishay Dale, Inductors / Aug 2022

- ⁽²⁾ DC current (A) that will cause an approximate ΔT of 80 °C
- ⁽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 IHSR-6767GZ-5A are available now, with lead times of 16 weeks.

To access the product datasheet on the Vishay Website, go to <http://www.vishay.com/ppg?34584> (IHSR-6767GZ-5A)

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