

New IHLP-7575GZ-51 Commercial Inductor Offers High Temperature Operation to +155 °C in 19 mm by 19 mm by 7 mm 7575 Case Size; Delivers Lower DCR and Higher Current Than 6767 Devices, at a Lower Cost Than Inductors in the 8787

Product Benefits:

- Offered in the 19 mm by 19 mm by 7 mm 7575 case size
- High temperature operation to +155 °C
- High efficiency:
 - Typical DCR from 1.02 mΩ to 25.2 mΩ
 - Wide range of inductance values from 0.56 μH to 33 μH
- Rated current to 61 A
- Handles high transient current spikes without saturation
- RoHS-compliant, halogen-free, and [Vishay Green](#)



Market Applications:

- Filtering and DC/DC conversion in notebooks, desktops, and servers; low profile, high current power supplies; POL converters; battery-powered devices; and distributed power systems and FPGAs

The News:

Vishay Intertechnology introduces a new commercial IHLP® low profile, high current inductor that is the industry's first composite inductor in the 19 mm by 19 mm by 7 mm 7575 case size.

- Offers up to 30 % lower DCR and up to 35 % higher current ratings than devices in the 6767 case size, at a 50 % lower cost than devices in the 8787 case
- Optimized for energy storage in DC/DC converters up to 2 MHz and high current filtering applications up to the SRF of the inductor
- Packaged in a 100 % lead (Pb)-free shielded, composite construction that reduces buzz noise to ultra low levels
- High resistance to thermal shock, moisture, and mechanical shock

The Key Specifications:

Case size	7575
Inductance (μH)	0.56 to 33
DCR typ. (mΩ)	1.02 to 25.2
DCR max. (mΩ)	1.09 to 27.0
Heat rating current (A)	10.2 to 61 ⁽¹⁾
Saturation current (A)	9.9 to 70 ⁽²⁾ / 14.3 to 101 ⁽³⁾
SRF (MHz)	4.4 to 50.0

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

⁽²⁾ DC current (A) that will cause L₀ to drop approximately 20 %

⁽³⁾ DC current (A) that will cause L₀ to drop approximately 30 %



NEW PRODUCT INFORMATION



Product Group: Vishay Dale, Inductors / August 2021

Availability:

Samples and production quantities of the IHLP-7575GZ-51 are available now, with lead times of 10 weeks.

To access the product datasheet on the Vishay Website, go to <http://www.vishay.com/ppg?34572> (IHLP-7575GZ-51)

Contact Information:

THE AMERICAS

Doug Lillie
doug.lillie@vishay.com

EUROPE

Jens Walther
Jens.Walther@vishay.com

ASIA/PACIFIC

Victor Goh
Victor.Goh@vishay.com