



New IHLP-7575GZ-5A Automotive Grade Inductor Offers High Temperature Operation to +155 °C in 19 mm by 19 mm by 7 mm 7575 Case Size; Delivers Improved Performance Over 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
- AEC-Q200 qualified
- 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 engine and transmission control units, diesel injection drivers, and entertainment / navigation systems, in addition to noise suppression for high current BLDC motors, windshield wipers, power mirrors and seats, power steering, HID and LED lighting, and heating and ventilation blowers

The News:

Vishay Intertechnology introduces the industry's first Automotive Grade IHLP® low profile, high current 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 size
- 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. ($\text{m}\Omega$)	1.02 to 25.2
DCR max. ($\text{m}\Omega$)	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 L_0 to drop approximately 20 %

⁽³⁾ DC current (A) that will cause L_0 to drop approximately 30 %

Availability:

Samples and production quantities of the IHLP-7575GZ-5A 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?34573> (IHLP-7575GZ-5A)

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