



Vishay Intertechnology Introduces New Commercial and Automotive Grade Power Inductors in the Compact 0806 and 1210 Case Sizes

February 4, 2026

Space-Saving Devices Offer High Temperature Operation to +165 °C, Increase Efficiency With Inductance Values Up to 4.70 µH and DCR Down to 6.6 mΩ

MALVERN, Pa., Feb. 04, 2026 (GLOBE NEWSWIRE) -- Vishay Intertechnology, Inc. (NYSE: VSH) today introduced four new power inductors in the 2.0 mm by 1.6 mm by 1.2 mm 0806 and 3.2 mm by 2.5 mm by 1.2 mm 1210 case sizes. The commercial [IHLL-0806AZ-1Z](#) and [IHLL-1210AB-1Z](#) and Automotive Grade [IHLP-0806AB-5A](#) and [IHLP-1210ABEZ-5A](#) achieve the same performance as the next-smallest competing inductor in 11 % (1210) and 64 % (0806) smaller footprints, while offering higher operating temperatures, wider range of inductance values, and lower DCR for increased efficiency.

Offering inductance values from 0.24 µH to 4.70 µH and typical DCR down to 6.6 mΩ, the terminals of the IHLL-0806AZ-1Z and IHLL-1210AB-1Z are plated on the bottom only, enabling a smaller land pattern for more compact board spacing. The terminals of the IHLP-0806AB-5A and IHLP-1210ABEZ-5A are plated on the bottom and sides, allowing for the formation of a solder fillet that adds mounting strength against high mechanical shock, while simplifying solder joint inspection. The AEC-Q200 qualified devices provide reliable performance up to +165 °C, which is 10 °C higher than the closest competing composite inductor, and typical DCR down to 15.0 mΩ.

Delivering improved performance over ferrite-based technologies, all four devices feature a robust powdered iron body that completely encapsulates their windings — eliminating air gaps and magnetically shielding against crosstalk to nearby components — while their soft saturation curve provides stability across the entire operating temperature and rated current ranges. Packaged in a 100 % lead (Pb)-free shielded, composite construction that reduces buzz to ultra low levels, the inductors offer high resistance to thermal shock, moisture, and mechanical shock, and handle high transient current spikes without saturation.

RoHS-compliant, halogen-free, and [Vishay Green](#), the Vishay Dale devices released today are designed for DC/DC converters, noise suppression, and filtering in a wide range of applications. The IHLP-0806AB-5A and IHLP-1210ABEZ-5A are ideal for automotive infotainment, navigation, and braking systems; ADAS, LiDAR, and sensors; and engine control units. The IHLL-0806AZ-1Z and IHLL-1210AB-1Z are intended for CPUs, SSD modules, and data networking and storage systems; industrial and home automation systems; TVs, soundbars, and audio and gaming systems; battery-powered consumer healthcare devices; medical devices; and telecom equipment; and precision instrumentation.

Device Specification Table:

Series	IHLL-0806AZ-1Z	IHLP-0806AB-5A	IHLL-1210AB-1Z	IHLP-1210ABEZ-5A
Inductance @ 100 kHz (µH)	0.24 to 4.70	0.22 to 0.47	0.24 to 4.70	0.47 to 4.70
DCR typ. @ 25 °C (mΩ)	16.0 to 240.0	15.0 to 21.0	6.6 to 115.0	18.0 to 150.0
DCR max. @ 25 °C (mΩ)	20.0 to 288.0	18.0 to 25.0	10.0 to 135.0	22.0 to 180.0
Heat rating current typ. (A) ⁽¹⁾	1.3 to 6.3	4.6 to 5.8	2.3 to 9.2	1.8 to 5.1
Saturation current typ. (A) ⁽²⁾	1.5 to 6.5	4.5 to 5.1	2.5 to 9.0	2.0 to 6.5
Saturation current typ. (A) ⁽³⁾	1.8 to 7.2	5.4 to 7.5	2.9 to 11.5	2.5 to 8.2
Case size	0806	0806	1210	1210
Temperature range (°C)	-55 to +125	-55 to +165	-55 to +125	-55 to +165
AEC-Q200	No	Yes	No	Yes

⁽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 %

Samples and production quantities of the IHLL-0806AZ-1Z, IHLL-1210AB-1Z, IHLP-0806AB-5A, and IHLP-1210ABEZ-5A series inductors are available now, with lead times of 10 weeks.

Vishay manufactures one of the world's largest portfolios of discrete semiconductors and passive electronic components that are essential to innovative designs in the automotive, industrial, computing, consumer, telecommunications, military, aerospace, and medical markets. Serving customers worldwide, Vishay is **The DNA of tech.**® Vishay Intertechnology, Inc. is a Fortune 1000 Company listed on the NYSE (VSH). More on Vishay at www.vishay.com.

The DNA of tech® is a registered trademark of Vishay Intertechnology, Inc. IHLP is a registered trademark of Vishay Intertechnology, Inc.

Vishay on Facebook: <http://www.facebook.com/VishayIntertechnology>

Vishay Twitter feed: <http://twitter.com/vishayindust>

Links to product datasheets:

<http://www.vishay.com/ppg?34649> (IHLL-0806AZ-1Z)

<http://www.vishay.com/ppg?34613> (IHLL1210AB-1Z)
<http://www.vishay.com/ppg?34618> (IHLP-0806AB-5A)
<http://www.vishay.com/ppg?34614> (IHLP1210ABEZ-5A)

Link to product photo:

<https://www.flickr.com/photos/vishay/albums/72177720331696400>

For more information please contact:

Vishay Intertechnology

Peter Henrici, +1 408 567-8400

peter.henrici@vishay.com

or

Redpines

Bob Decker, +1 415 409-0233

bob.decker@redpinesgroup.com