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New IHLP-2020AB-01 Low-Profile, High-Current Inductor

The Key Benefits:

- Features 2020 case size
 - Compact 5.18 mm by 5.49 mm footprint with ultra-low 1.2 mm profile
- Offers a frequency range up to 5 MHz
- Wide inductance range from 0.10 μH to 47 μH
- Low typical DCR from 4.32 m Ω to 159.0 m Ω , and maximum DCR from 4.6 m Ω to 168.0 m Ω
- Provides a saturation current range from 4.4 A up to 35 A
- Handles high transient current spikes without hard saturation



The Key Applications:

- Voltage regulator module (VRM) and DC/DC converter applications in end products including next-generation mobile devices; notebooks, desktop computers, servers, graphic cards, portable gaming devices, personal navigation systems, personal multimedia devices, and automotive systems; low-profile, high-current power supplies and point of load (POL) converters; distributed power systems; and field-programmable gate arrays (FPGAs)

The News:

Vishay Extends IHLP® Family of Low-Profile, High-Current Inductors With New Device in the 2020 Case Size Featuring Maximum Frequency to 5 MHz, and Low DCR Down to 4.32 m Ω Typical

Vishay Intertechnology, Inc. (NYSE: VSH) announces a new IHLP® low-profile, high-current inductor in the 2020 case size. The compact IHLP-2020AB-01 offers a 5.18 mm by 5.49 mm footprint and ultra-low 1.2-mm profile, with a high maximum frequency and standard inductance values from 0.10 μH through 4.7 μH .

- Packaged in an RoHS-compliant, 100 % lead (Pb)-free shielded, composite construction that reduces buzz noise to ultra-low levels
- High resistance to thermal shock, moisture, mechanical shock, and vibration



Key Device Specifications:

- 2020 case size
- 5.18 mm by 5.49 mm footprint with 1.2 mm profile
- Maximum frequency to 5 MHz
- Inductance range from 0.10 μ H to 4.7 μ H
- Saturation current range from 4.4 A up to 35 A
- Typical DCR from 4.32 m Ω to 159.0 m Ω
- Maximum DCR from 4.6 m Ω to 168.0 m Ω
- Operating temperature range of - 55 $^{\circ}$ C to + 125 $^{\circ}$ C

The Perspective: Vishay's new IHLP® low-profile, high-current inductor in the 2020 case size offers an ultra-low 1.2 mm profile and maximum frequency to 5 MHz. With a wide inductance range from 0.10 μ H to 4.7 μ H and low DCR down to 4.32 m Ω , the IHLP-2020AB-01 serves as a high-performing, space- and power-saving solution for voltage regulator module (VRM) and DC/DC converter applications in a broad range of electronic products.

Availability: Samples and production quantities of the new inductor are available now, with lead times of 10 to 12 weeks for large orders.

To access the product datasheet on the Vishay Web site, go to <http://www.vishay.com/doc?34283> (IHLP-2020AB-01)

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