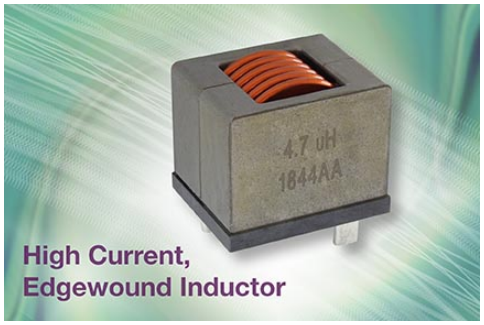
Featuring Powdered Iron Alloy Core Technology, New IHDM-1008BC-30 Edge-Wound, Through-Hole Inductor Delivers Stable Inductance and Saturation at Temps to +180 °C and Current to 150 A, Provides Low DCR to Reduce Power Losses and Increase Efficiency

Product Benefits:

- Rated current up to 150 A
- Features powdered iron alloy core technology
- Operating temperature range from -40 °C to +180 °C
- Case size 25 mm x 20 mm x 23 mm
- Edge-wound coil provides low DCR down to 0.25 mΩ
- Operating voltage up to 350 V
- Stripped and tinned terminals for through-hole mounting (standard)
- Hot-dipped tin plating reduces the risk of whisker growth
- RoHS-compliant, halogen-free, and Vishay Green



Market Applications:

- DC/DC converters, inverters, motor and switching noise suppression, and high power switchmode power supplies
- Industrial solar systems and charging stations for electric vehicles
- Military defense systems

Buy It Now:

Check distributor stock on the Vishay website

The News:

Vishay Intertechnology introduces a new IHDM edge-wound, through-hole inductor with rated current up to 150 A for industrial and military applications. Featuring a powdered iron alloy core technology, the Vishay Custom Magnetics IHDM-1008BC-30 provides stable inductance and saturation over a demanding operating temperature range from -40 °C to +180 °C with low power losses and excellent heat dissipation.

- Low DCR minimizes losses and improves rated current performance for increased efficiency
- 30 % higher rated current and 30 % higher saturation current levels at +125 °C compared to competing ferrite-based solutions
- Soft saturation provides a predictable inductance decrease with increasing current, independent of temperature
- Vishay can customize the device's mounting method, and performance, upon request
  - Options include bare copper, surface-mount, and press fit

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The Key Specifications:

Case size	1008
Dimensions (mm)	25 x 20 x 23
Inductance (µH)	1.2 to 10
DCR typ. (mΩ)	0.25 to 1.70
DCR max. (mΩ)	0.30 to 2.0
Heat rating current (A)	30 to 80
Saturation current (A)	30 to 110(1) / 45 to 150(2)
SRF typ. (MHz)	8 to 90

(1) DC current (A) that will cause L_0 to drop approximately 20 %
(2) DC current (A) that will cause L_0 to drop approximately 30 %

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

To access the product datasheet on the Vishay Website, go to
http://www.vishay.com/ppg?34522 (IHDM-1008BC-30)

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