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## New IFSC Low-Profile, High-Current Inductors

### Product Benefits:

- Offered in the 0806, 1008, 1111, and 1515 case sizes
- Ultra-low profiles down to 1.0 mm
- High maximum frequency range up to 5.0 MHz
- Inductance range from 0.47  $\mu$ H to 47.0  $\mu$ H
- Saturation current range from 0.235 A up to 5.5 A
- Typical DCR from 17 m $\Omega$  to 2367 m $\Omega$
- Maximum DCR from 22 m $\Omega$  to 2840 m $\Omega$
- Operating temperature range of – 55 °C to + 125 °C



### Market Applications:

- DC/DC converter applications in end products including LCD displays, hard disk drives, digital video cameras, smart phones, tablets, and PDAs; low-profile, high-current power supplies; and point of load (POL) converters

### The News:

## Vishay Releases New IFSC Family of Low-Profile, High-Current Inductors in 0806, 1008, 1111, and 1515 Case Sizes

Vishay Intertechnology, Inc. (NYSE: VSH) announces a new family of low-profile, high-current inductors in the 0806, 1008, 1111, and 1515 case sizes. The IFSC devices combine ultra-low profiles down to 1.0 mm with a high maximum frequency and a wide range of standard inductance values from 0.47  $\mu$ H to 47.0  $\mu$ H.

- High resistance to thermal shock, moisture, mechanical shock, and vibration
- Shielded devices
- RoHS-compliant and 100 % lead (Pb)-free

### Key Device Specifications:

Part number	IFSC-0806AZ-01	IFSC-1008AB-01	IFSC-1111AB-01	IFSC-1111AZ-01	IFSC-1515AH-01
Footprint (mm)	1.6 x 2.0	2.0 x 2.5	2.9 x 2.9	2.9 x 2.9	3.8 x 3.8
Profile (mm)	1.0	1.2	1.2	1.0	1.8
Frequency	Up to 5.0 MHz	Up to 5.0 MHz	Up to 5.0 MHz	Up to 5.0 MHz	Up to 5.0 MHz
Inductance ( $\mu$ H)	1.0 to 22.0	0.47 to 22.0	2.2 to 22.0	1.0 to 47.0	0.56 to 47.0
Saturation current (A)	0.43 to 1.88	0.56 to 3.9	0.55 to 1.7	0.235 to 1.5 A	0.56 to 5.50
Typ. DCR (m $\Omega$ )	96 to 2367	25 to 910	82 to 630	55 to 1800	17 to 495
Max. DCR (m $\Omega$ )	115 to 2840	29 to 1050	98 to 756	68 to 2050	22 to 594



# New Product Info



**Product Group:** Vishay Dale, Inductors / **April 2011**

**The Perspective:** Featuring 0806, 1008, 1111, and 1515 case sizes and ultra-low profiles down to 1.0 mm, Vishay's new IFSC family of low-profile, high-current inductors offers a high maximum frequency range up to 5.0 MHz, saturation currents from 0.235 A up to 5.5 A, typical DCR from 17 m $\Omega$  to 2367 m $\Omega$ , and a wide range of standard inductance values from 0.47  $\mu$ H to 47.0  $\mu$ H. These values make the five new IFSC devices ideal as high-performing, space- and power-saving solutions for DC/DC converter applications in a broad range of electronic products.

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

To access the product datasheets on the Vishay website, go to:

<http://www.vishay.com/doc?34291> (IFSC-0806AZ-01)

<http://www.vishay.com/doc?34294> (IFSC-1008AB-01)

<http://www.vishay.com/doc?34292> (IFSC-1111AB-01)

<http://www.vishay.com/doc?34293> (IFSC-1111AZ-01)

<http://www.vishay.com/doc?34295> (IFSC-1515AH-01)

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