

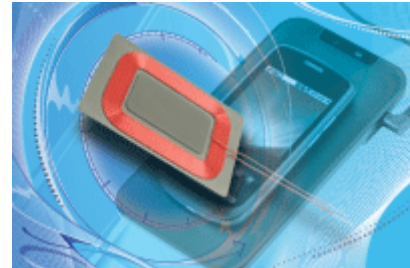


**Author:** Doug Lillie  
**Tel:** 1 605-668-4131  
**E-mail:** doug.lillie@vishay.com

## New IWAS-4832EC-50 Wireless Charging Receiving Coil

### Product Benefits:

- Powdered iron based
  - Not affected by permanent locating magnets
- WPC compliant
- Works with or without an alignment magnet
- Durable construction and high permeability shielding
- Provides high efficiency greater than 75 %
- Blocks charging flux from sensitive components or batteries
- Magnetic saturation of 50 % of inductance at 4000 gauss
- RoHS compliant



### Market Applications:

- Wireless charging of 7 V portable electronics

### The News:

## Vishay Intertechnology Introduces New Powdered-Iron-Based, WPC-Compliant Rx Coil for 7 V Charging Circuitry

Vishay Intertechnology, Inc. (NYSE: VSH) announces a new powdered-iron-based, WPC-compliant (Wireless Power Consortium) wireless charging receiving coil for 7 V portable electronics that is optimized for use with or without an alignment magnet and offers high efficiency > 75 %.

- Designed into a leading wireless power development kit
- Provides an alternative to Ferrite-based solutions, which can saturate in the presence of a strong magnetic field

### Key Device Specifications:

- Efficiency > 75 %
- 50 % magnetic saturation of inductance at 4000 gauss
- 16.2  $\mu$ H inductance at 200 kHz
- $\pm$  5 % inductance tolerance
- 366 m $\Omega$  DCR at + 25 °C
- Q of 30 min. at 200 kHz



# New Product Info



**Product Group:** Vishay Dale, Inductors / **October 2013**

- 50 mm lead length
- 10 mm tinned length

**The Perspective:** Optimized for use with or without an alignment magnet, the IWAS-4832EC-50 provides a durable construction, high permeability shielding, and high efficiency greater than 75 % for the wireless charging of 7 V portable electronics. The Rx coil has been designed into a leading wireless power development kit. For higher voltage wireless power base stations and receivers, the IWAS-4832EC-50's high-saturation powdered iron is not affected by permanent locating magnets, and the device blocks charging flux from sensitive components or batteries. As an alternative to Ferrite-based solutions – which can saturate in the presence of a strong magnetic field – the IWAS-4832EC-50 has magnetic saturation of 50 % of inductance at 4000 gauss.

**Availability:** Samples and production quantities of the IWAS-4832EC-50 Rx coil are available now, with lead times of stock to six weeks.

To access the product datasheet on the Vishay Web site, go to <http://www.vishay.com/doc?34329> (IWAS-4832EC-50)

## Contacts:

### THE AMERICAS

Doug Lillie  
Vishay Intertechnology, Inc.  
doug.lillie@vishay.com

### EUROPE

Jens Walther  
Vishay Electronic GmbH  
jens.walther@vishay.com

### ASIA/PACIFIC

Victor Goh  
Vishay Asia Pte Ltd.  
victor.goh@vishay.com