Designing a Qi-compliant receiver coil for wireless power systems, Part 1

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Overview

The implementation of the Wireless Power Consortium's (WPC's) Qi standardi brings wireless power to many different end applications. The receiver (Rx) coil for each application may have different geometries and/or power requirements. Since the Rx coil is a key component in a successful and efficient design of a Qi-compliant Rx and there are many design options and trade-offs to consider. the designer must take a careful and methodical approach. when realizing a solution. This article provides the technical insight needed to realize a successful Rx-coil design. It covers the Qi-compliant system model as a basic transformer: Rx-coil measurements and system-level influences; and methods of qualifying a design for successful operation. It is assumed that the reader has a general understanding of the Qi-compliant inductive power system. Background information can be found in Reference 2.

Qi-compliant system as a transformer

For many near-field wireless power systems such as the one specified by the WPC, the behavior of the magnetic power transfer can be modeled by a simple transformer. A traditional transformer usually has a single physical structure with two windings around a core material that is highly permeable compared to air (Figure 1). Since the traditional transformer uses a highly permeable material to carry the magnetic flux, most (not all) of the flux produced by one coil couples to the second coil. This coupling, which can be measured through a parameter known as the coupling coefficient, is denoted as k (a measure that can have a value between 0 and 1).

Three parameters define a two-coil transformer:

 L_{11} is the self-inductance of coil 1.

 L_{22} is the self-inductance of coil 2.

 L_{TF} is the mutual inductance of coils 1 and 2.

The coefficient for coupling between the two coils can be formulated as

$$k = \frac{L_{12}}{\sqrt{L_{11}L_{22}}}.$$
 (1)

The ideal transformer then can be modeled by using a coupled inductor as shown in Figure 2.

Using the voltage and current relationship of an inductor can provide the nodal equations of this two-coil transformer:

$$V_1 = L_{11} \frac{di_1}{dt} + L_{12} \frac{di_2}{dt}$$
 (2a)

Figure 1. Traditional transformer with one physical structure

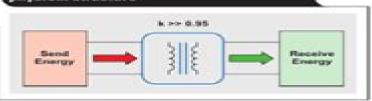


Figure 2. Ideal model of a traditional transformer

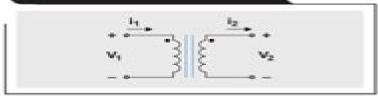
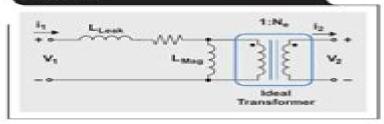


Figure 3. Cantilever model of a traditional transformer



$$V_3 = L_{22} \frac{di_2}{dt} + L_{12} \frac{di_1}{dt}$$
 (2b)

For circuit analysis, the model in Figure 2 can be represented by what traditionally is referred to as a cantilever model, shown in Figure 3. Here the magnetic coupling and mutual inductance are simplified to leakage and magnetizing inductances. This allows the physical nature of the

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