

## Designing A Qi Compliant Receiver Coil For Wireless Power

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Designing a Qi-compliant receiver coil for wireless power systems, Part 1. Overview. The implementation of the Wireless Power Consortium 's (WPC 's) Qi standard brings wireless power to many dif-ferent end applications. The receiver (Rx) coil for each application may have different geometries and/or power requirements.

~~Designing a Qi-compliant receiver coil for wireless power...~~

The transformer in a Qi-compliant system consists of two separate physical devices, the transmitter (Tx) and the receiver (Rx), each with an isolated coil. When a Tx and Rx are placed near one another, they form a coupled- inductor relationship, simply modeled as a two-coil trans- former with an air core (Figure 4).

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Qi @ Wireless Power Micro-Receiver Reference Design. Qi @. Wireless Power Micro-Receiver Reference Design. Our Qi @ Wireless Power Micro-Receiver reference design allows you to quickly add wireless charging functionality to your projects without having to deal with complex specific protocols or state machines. This receiver is implemented using a general purpose 8-bit microcontroller (MCU) and is a flexible, low-cost alternative to common wireless charging solutions based on ASICs.

~~Qi Wireless Power Micro Receiver Reference Design...~~

Designing a Qi-compliant receiver coil for wireless power systems, Part 1 By Bill Johns, Tony Antonacci, and Kalyan Siddabattula, Texas Instruments 08.11.2012 0 The implementation of the Wireless Power Consortium 's (WPC 's) Qi standard1 brings wireless power to many different end applications.

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Designing A Qi Compliant Receiver Coil For Wireless Power Products that carry the Qi logo on their packaging are interoperable, allowing consumers the freedom to charge any Qi-compliant device, given any Qi charger. The Qi system consists of a flat charging pad, and a mobile device equipped with a compatible receiver.

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bq51003 Highly Integrated Wireless Receiver Qi (WPC v1.2) Compliant Power Supply 1 1 Features 1• Integrated Wireless Power Supply Receiver Solution - Optimized for 2.5-W Applications – 93% Overall Peak AC-DC Efficiency – Full Synchronous Rectifier – WPC v1.2 Compliant Communication Control – Output Voltage Conditioning

~~bq51003 Highly Integrated Wireless Receiver Qi (WPC v1.2)...~~

An available Qi-compliant receiver and transmitter can be optimized for a low-power wireless system by carefully tailoring the coil sizes and external component values to match the smaller application. Coils for both the trans- mitter and receiver can be reduced in size to fit the smaller form factor.

~~Adapting Qi-compliant wireless-power solutions to low...~~

design? - What type of receiver coils can I use in my design? Choosing the right wireless charging coil technology The wireless charging market was until recently split into two standard bodies Wireless Power Consortium (WPC) and Power Matters Alliance (PMA), but this has now seen convergence into one company. CES 2018 showed a tidal wave of Qi(\*)

~~WHITE PAPER - Abracon~~

Description. The Qi medium power FOD receiver is a 15W receiver that can be used to test the operation and FOD performance of Qi wireless transmitter. DIP switches on top of the FOD receiver are used to program received power offsets and to change internal loads. The FOD receiver accurately measures received power (PPR) and sends the WPC specified received power packets to the transmitter.

~~Qi FOD Receiver v1.2 - Avnet AVID~~

Renesas Electronics selected Würth Elektronik as the wireless power coil partner for its 5W, Qi-compliant wireless power reference kits. Renesas Electronics turnkey wireless power kits make integrating wireless charging easy, affordable and practical for a broad range of consumer electronics. The new Qi-compliant transmitter and receiver reference kits deliver plug-and-play ease of integration, enabling engineers to incorporate wireless charging capabilities into their designs in a matter ...

~~Wireless Power Reference Designs | Würth Elektronik...~~

Qi @ Wireless 15W Receiver Reference Design This advanced wireless receiver is compatible with Qi 1.2 base stations and is able to draw up to 15W of power that can be used to run portable devices or charge batteries. You can quickly incorporate this receiver into your designs without dealing with the Qi protocol state machine and communication.

~~Qi Wireless Charging | High Power Wireless | Microchip...~~

15W Qi, 5W PMA Production Proposal Planning Execution WPR1516 15W Qi WCT-200WTX 20W - 150W WPRxxxx 20W – 150W 150 Watt Laptops E-Tools 5Watt Phone Wearable 15 Watt Phone Tablet WCT-5WTXAUTO 5W Qi A13, 5W PMA WCT-15W1COILTX 15W Qi, 5W PMA Transmitter WPR1500-LDO WPR1500-BUCK Receiver

~~NXP WIRELESS POWER SOLUTIONS~~

The Qi wireless power system consists of a charging pad housing a power transmitter, and a mobile device with a power receiver. When the mobile device rests on the charging pad, the receiver communicates to the transmitter, requesting the appropriate amount of power desired.

~~Wireless Charging Technology | Mouser Electronics~~

Back to top. Renesas is a leader in wireless power receiver IC solutions for wireless charger applications, addressing all major standards and technologies with an extensive portfolio of standards-certified products. Renesas offers Qi standard solutions to meet the needs of next-generation portable devices. The highly flexible, high-efficiency, and compact designs are ideal for use in a myriad of portable devices where time to market, battery life, and physical size are a primary concern.

~~Wireless Power Receiver ICs | Renesas~~

The transmitter and receiver reference kits deliver plug-and-play ease of integration, enabling engineers to incorporate wireless charging capabilities into their designs in a matter of minutes. 5 Watt, Qi-compliant Transmitter Prototype Kit

~~Wireless Power Reference Kits | Renesas~~

The P9221-R-EVK is a turnkey 15 Watt, Qi-compliant wireless power receiver reference kit for fast prototyping and design integration. The kit consists of an easy-to-use reference board and comprehensive support collateral that significantly eases design-in effort and minimizes time-to-market. An associated layout module enables direct instantiation on to a system board, while an optimized and fully-tested Bill-of-Materials (BOM) takes the guess-work out of component selection.

~~P9221-R-EVK - Wireless Power Receiver Reference Solution...~~

Qi Receiver Type A Wireless Charging Receiver Adapter Patch for Samsung Galaxy J7-S5-A9-Note 4/LG V10-Stylo 2-3-Plus/Google Nexus G4 Ultra-Thin 5w 1000mAh Compatible All Wireless Charger. 3.5 out of 5 stars 11. \$8.99 \$ 8. 99. Get it as soon as Thu, Oct 15. FREE Shipping on your first order shipped by Amazon.

~~Amazon.com: qi compatible receiver~~

The Qi power receiver hardware reference design 1, also from version 1.2.2 of the Qi specification, starts with a rectangular coil of wire 44 mm x 30 mm outside size, with 14 turns of wire, and with an above-coil magnetic shield.

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