



News

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A.K. STAMPING COMPANY, INC. ANNOUNCES
INDUSTRY'S THINNEST COILS FOR WIRELESS CHARGING

Introduces Low Cost WPC (Qi) A11 Transmit Coil

MOUNTAINSIDE, N.J., March 31, 2015 -- A.K. Stamping Company, Inc. is pleased to announce our new A2311 Transmit Coil designed to work within the A11 specification of the WPC (Qi) standard.

Based upon a true bifilar Tesla coil design, these stamped coils are significantly thinner (0.3mm for coil alone, 2mm for coil mounted to optional ferrite shield) than comparable Litz wire coils, giving designers the freedom to significantly reduce the overall thickness of their charging devices. Made from stamped aluminum, the A2311 coils are more resistant to damage from vibration and thermal shock than charging coils made by competing technologies, surpassing the automotive requirements for stress testing of passive components. In addition, AKS' patent-pending coil manufacturing technology dramatically reduces coil costs compared to other wireless charging coils on the market today.

“We are excited to have developed an innovative solution for the growing wireless charging market,” said Carlo Montesa, Product Manager of Wireless Charging at AK Stamping. “AKS is able to offer a dramatic reduction in coil thickness and cost. It's truly a groundbreaking technology that gives the wireless charging industry the manufacturing scalability and consistency it needs. Compared to competing technologies, our technology provides an extremely robust solution that is ideal for both inductive and resonant applications.”

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Ease of integration into WPC Qi transmitter devices was a key development goal for the A2311 charging coil. To that end, AKS worked extensively with leading wireless chipset manufacturer NXP Semiconductor to ensure that the coil assembly is verified for optimum functionality with NXP chipsets for WPC A11 applications. The benefit for systems designers is a shorter design and verification cycle when both the A2311 and NXP chipsets are used together.

The A2311 joins our growing portfolio of patent-pending wireless charging coils, which also includes the A2306 A6 style WPC Transmit coil. Available in copper or aluminum, the A2306 shares the substantial thickness, durability and cost benefits of the A2311 coil.

For wireless charging of smartphones, AKS also offers Qi receiver coils with outstanding performance at a thickness of just 0.14mm.

A.K. Stamping Company, Inc. designs and manufactures innovative wireless charging coil solutions for WPC, PMA, and Rezence (A4WP) at our New Jersey (USA) and Shanghai (China) facilities. Our unique blend of design, prototyping, and mass production capabilities enables us to consistently meet the needs of this fast growing market. More information on AKS wireless charging products can be found here: <http://www.akstamping.com/wireless-charging/>.