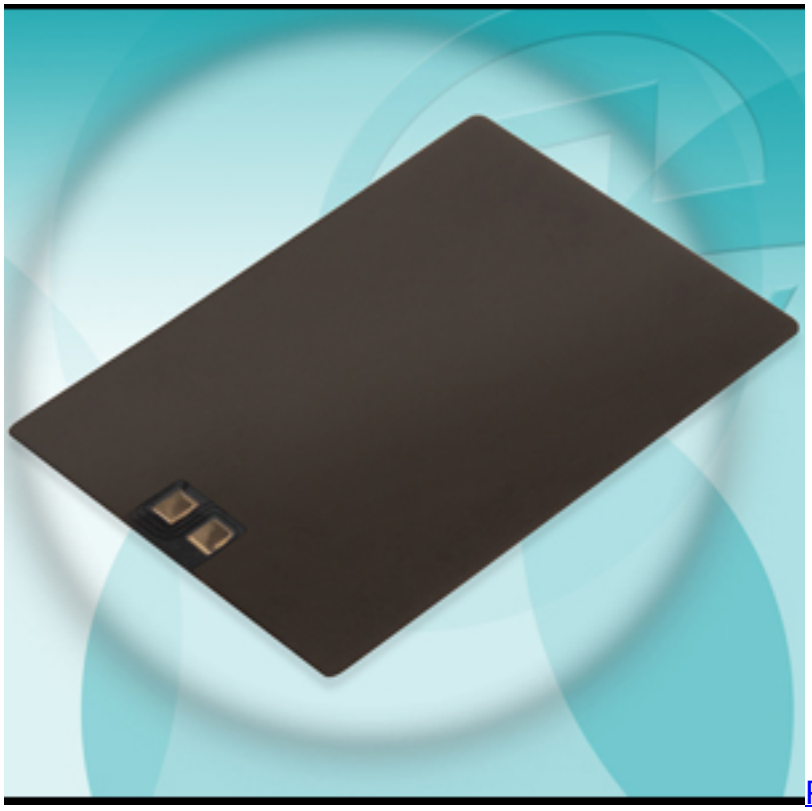
Near-field communications antenna is 40% thinner than competing solutions



Pulse Electronics Corporation [1] introduces a near-field communications (NFC) antenna [2] that is 40% thinner than similar NFC ferrite sheet antennas, while still complying with the EMVCo specification. The new ferrite sheet antenna enables mobile devices to read data from a distance of up to 40mm to enable them to communicate with other wireless devices for payments, access and control, credential storage and exchange, and content consumption. EMVCo specifications ensure global interoperability and compatibility of chip-based payment cards and acceptance devices.

Pulse's thinner NFC antenna sends and receives clear signals even when installed in a handset in close proximity to the battery or metal housing. It is 35x50mm in size with a minimum thickness of 0.185mm and a pad size of 2x2mm. The antenna is constructed of a thin ferrite with one-sided flex and a thinner adhesive. The contacts are in the antenna for easy implementation and a smaller area. To achieve the EMVCo target reading distance of 40mm the mechanics are optimized with the antenna. Pulse customizes its NFC antennas, matching the circuit values for the device, so tuning is all that is needed to integrate it into the mobile device.

The NFC ferrite sheet antennas are RoHS compliant, come packaged in trays, and are ready for volume production. They are available in a variety of sizes and can be configured to a customer's specifications. Pulse can optimize multi-antenna configurations with an NFC antenna for all-in-one solutions. In-house testing and measurement are done at Pulse Electronics' global facilities to ensure that the

antenna will perform optimally throughout its life cycle.

Pulse Electronics experts will be available at Mobile World Congress, Barcelona, Spain, February 25-28, 2013, to discuss these new antennas and other Pulse antenna products. To access the datasheet, click on http://www.pulseelectronics.com/download/3822/ultra-thin_nfc_ferrite_sheet_antenna [3]. For more information on NFC antennas visit the Pulse Electronics website at http://www.pulseelectronics.com/NFCFerriteAntenna [2]

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Links:
[1] http://www.pulseelectronics.com
[2] http://www.pulseelectronics.com/NFCFerriteAntenna
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