# SMT Antennas Serve HF/NFC Applications

In the last few years, Communication technology by Near Field Communications (NFC) has experienced a lot of improvements. New Iphone5 has been announced with this NFC functionality for E-Wallet application.

PREMO enlarges its SDTR1103 family with the new SDTR1103-HF series. This new SMT antenna is suitable for signal´s reception at 2MHz and/or 13,56MHz Tx/Rx for NFC applications.

The antenna has a high surface resistance NiZn ferrite core material (>10Mohm/mm) and low initial permeability to work at high frequency. This provide a very stable performance in a wide range of temperature (-40ºC to +85ºC). The series has the same format as 125kHz transponders, SDTR1103 family.

SDTR1103-HF is offered with 290uH/2MHz, 400uH/2MHz and 20uH/13,56MHz inductance values.

Its Surface Mounting Device (SMD) configuration allows an easy integration in an automatic printed circuit board assembly process, avoiding handling of the piece that could damage winding wire of the piece.

This Super Drop Test Resistance coil is especially suitable for applications which require high (drop-tests) requirements, like mobiles and key-fobs, etc. SDTR1103-HF2-0020K, is specially tuned at 13,56MHz and suitable for RFID applications with ISO15693 (vicinity: I-CODE) and ISO 14443 (proximity: MIFARE) interface.

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