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The application note is intended to give a practical guide to choose the matching topology, to design antennas

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And Pn53x and calculate the matching components for the MFRC52x/PN51x/PN53x RF part. It gives a guideline starting with the recommended RF matching circuitry description as well as a dedicated description of the transmitter

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Antenna design guide for MFRC52x,  
PN51x and PN53x Antennas are  
everywhere these days, most of the  
mainstream technologies like  
smartphones, security, and IoT  
devices use antennas to communicate  
between them and that's why RF  
becomes one of the most fascinating  
and robust corners of engineering and  
design. So, my goal today is to give  
readers

## Antenna Design And Rf Layout Guidelines

Antenna design guide for MFRC52x,  
PN51x and PN53x Hi All, I have some

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question regarding RF Layouts , I have worked extensively on analog layout for baseband signal , Page 3/10. Read PDF Antenna Design And Rf Layout Guidelines can someone suggest how RF layout are different, I do have idea about coupling

## Antenna Design And Rf Layout Guidelines

The MFRC52x it self is described in the corresponding data sheet: [Product Data Sheet - MFRC522 Contactless Reader IC](#). [Product Data Sheet - MFRC523 Contactless Reader IC](#). Antenna design and tuning is described in following application notes: [Application Note - Micore Reader IC family Directly Matched Antenna Design](#)

MFRD52x Mifare® Contactless Smart

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Card Reader Reference Design

AN11019: CLRC663, MFRC630,  
MFRC631, SLRC610 Antenna design7

AN1445: Antenna design guide for  
MFRC52x, PN51x, PN53x 17 1 2 3 5

Define target impedance To optimize  
RF output power or battery life EMC

filter design Filtering of unwanted  
harmonics Measure antenna coil

Determine LCR values of the antenna  
coil Calculate matching components

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Antenna Design Guide

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001-91445 Rev. \*\* 2 Therefore, an  
optimal antenna design is important for  
low-energy applications. It is generally  
believed that antenna design is difficult  
because the antenna is sensitive to  
PCB size, nearby plastic casing, and  
other factors, that can detune it.



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Guidelines

Antenna Design Guide for the

TRF79xxA 1 Introduction When

beginning a new antenna design, the

targeted application and which

NFC/HF RFID technologies will be

used for the application has an

influence on the decisions made when

designing and tuning the antenna. 1.1

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Antenna Design Guide for the TRF79xxA (Rev. C) Micore Reader IC Family; Directly Matched Antenna Design 3. Basic parameter design for 106kbit/s A complete Micore reader antenna design can be done in steps based on the certain number of given parameters given below (see section 3.1). Every step is described in one of the following sections . The best way to design antenna is to follow the steps

AN - chinaidcard.com

Keywords Antenna tuning, Measurement, PN512, CLRC663, NFC and Reader IC, MiniVNA Abstract This application note gives a guideline how to measure and tune/match a NFC and Reader IC antenna with the

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MiniVNA network analyzer tool. The MiniVNA allows a cost efficient antenna design.

AN11535 Measurement and tuning of a NFC and Reader IC ...

This application note describes different design concepts using multiple antennas on a single reader IC. 2. Basic concepts 2.1 Introduction to multiple antennas A contactless reader/NFC design might require multiple tap points for credentials and/or phones. In order to keep the system cost as low as possible, this functionality can be

AN11314 Multiple Antennas on Single Reader IC

AN1445 Antenna design guide for MFRC52x, PN51x, PN53x; AN1444 RF Design Guide including Excel

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Calculation sheet (REV 1.3 ) This application notes provides guidance on antenna and RF design for NFC devices MFRC522, MFRC523, PN511, PN512, PN531, PN532

PEGODA Contactless Smart Card Reader | NXP

□PN7462 family Antenna design guide

□CLRC663, MFRC630, MFRC631, SLRC610 Antenna Design Guide

□PN7150 Antenna Design and Matching Guide □PN7120 Antenna Design and Matching Guide. NXP

Semiconductors UM11232 NFC

Antenna Design Tool User Guide

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November 2002 13.56 MHz RFID  
Proximity Antennas mifare® (14443A)  
3 PUBLIC 1 INTRODUCTION 1.1  
Purpose and Scope This application  
note is intended to support RF-related  
design of Micore reader ICs.

mifare® (14443A) 13.56 MHz RFID  
Proximity Antennas  
Quad Antenna Design is one more  
free antenna design and analysis  
software for Windows. Quad antenna  
is a type of directional wire radio  
antenna mainly used on the VHF and  
UHF bands. This type of antenna is  
quite similar to Yagi-Uda antenna but  
instead of using a straight element,  
this antenna uses a square , round, or  
some other shaped closed looped  
elements .

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