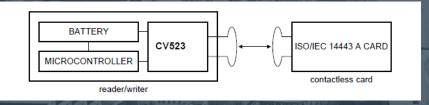


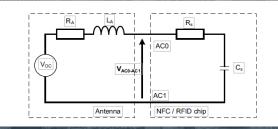
ZHENGZHOU MINIMUMIOT MICROMODULES CO,LTD

Completion Date:September 9, 2022

The module is designed according to ISO / IEC 14443 . The design starts with the simplified model shown in Figure 1.For a given antenna, Rant, Cant and Lant are constants but the resulting impedance Zant(Rant // Cant // Lant) is frequency dependent. At self-resonance frequency (fself_res) the imaginary part of the antenna impedance is null and the antenna is purely resistive. Belowthe self-resonance frequency, the imaginary part of the antenna impedance is positive and the antenna behavior is inductive.



Module design principle



Equivalent model of an NFC / RFID tag in presence of a magnetic field

ANTENNA DESIGN

PROCEDURE

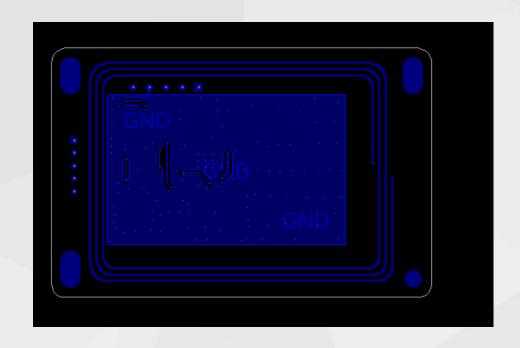






Antenna Detail

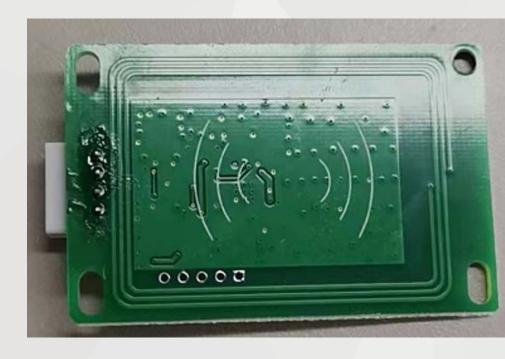
The antenna is a board antenna, which is square in shape and made of copper.





ANTENNA LENGTH: 48 MM ANTENNA WIDTH: 34MM WIDTH OF TRACKS:0.5mm

SPACING BETWEEN TURNS: 1MM

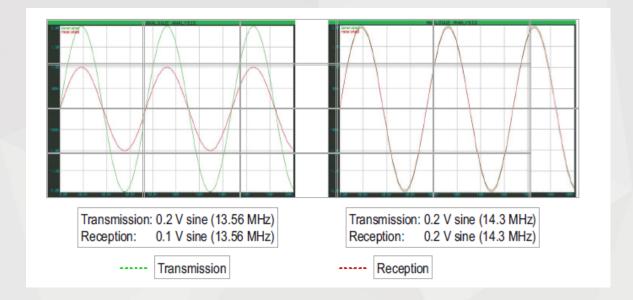


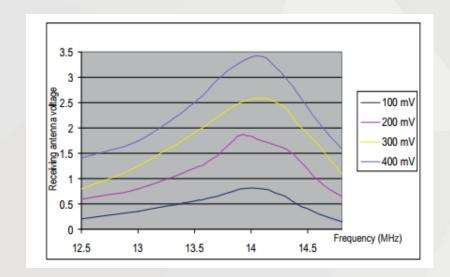


MEASUREMENT WITH STANDARD EQUIPMENT









OSCILLOSCOPE VIEWS

SYNTHESIS OF RESONANCE TRACES FOR DIFFERENT VOLTAGES