

NFC - RF PCB antenna specifications

**SD & I DEPARTMENT
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CONTROL SHEET

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NFC PCB Antenna specifications

A small NFC PCB antenna is a compact printed circuit board with a copper coil. It's used MSDI021 product PCB RF antenna.

PCB antenna:

Part Number: MSDI021_ANT_A_V1.0

PCB material: FR4

PCB thickness: 1mm

RF connector Part No: U.FL-R-SMT(10)

Electrical specifications

Frequency: 13.56MHz

Gain: -41dbi

Impedance: 50 ohm

Inductance [uH]: 0.79

Resistance [Ω]: 1.2

Q-Factor: 30

Environmental Specifications:

Operating Temperature: -40°C to +85°C

Mechanical Specifications

Color: Green

Dimensions [mm]: 35 x 81.50

Standards:

- ISO/IEC 14443 A / B (MIFARE)
- ISO/IEC 18092

Features:

- Easily assembles to device covers
- Well-known antenna concept, reliable technology
- RoHS compliant product

PCB Antenna Specifications:

Fig (A): PCB Dimension (2D)

Fig (B): 3D file

VNA Reading:

