



Wistron NeWeb Corp.

## APPROVAL SHEET

Customer Name:

Date: 2025/12/18

Doc. Version: A01

|              |                                         |
|--------------|-----------------------------------------|
| Customer P/N |                                         |
| WNC P/N      | 48XRAKA1.SGA (FPC Part)                 |
| Description  | NFC antenna of certification (DFIN-H11) |
| Version      | A01                                     |

| Provided By<br>Wistron NeWeb Corp | Reviewed By<br>Wistron NeWeb Corp | Approved By<br>Customer |
|-----------------------------------|-----------------------------------|-------------------------|
|                                   |                                   |                         |

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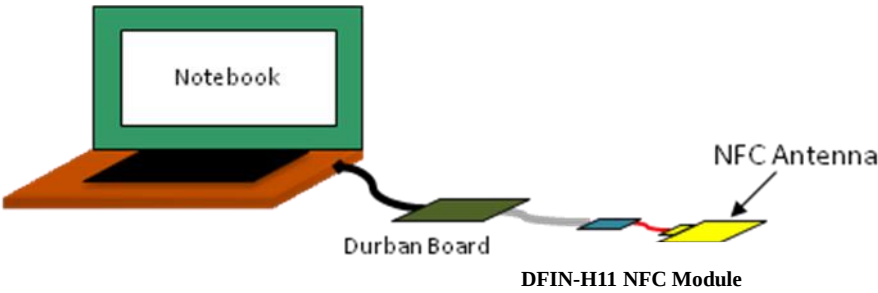
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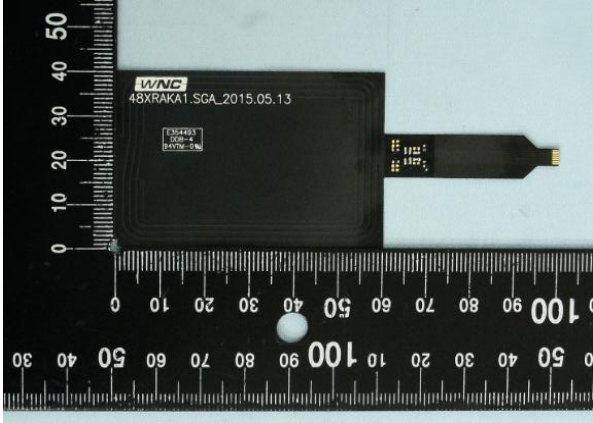
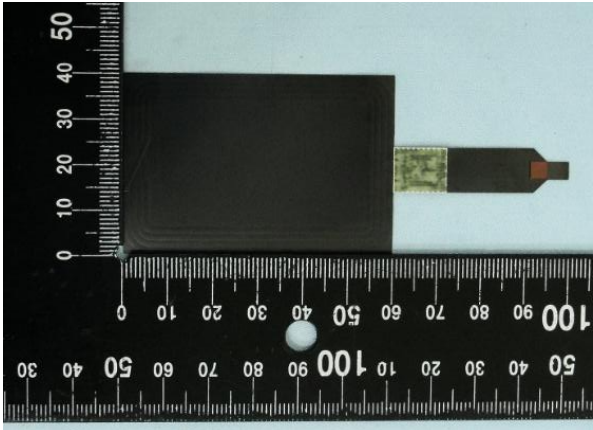
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# 1. Introduction

## NFC Antenna for DFIN-H11

1. Location: Free space



|              | NFC Antenna                                                                                                                                                                                                 |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Position     | Free space                                                                                                                                                                                                  |
| Antenna Type | Loop                                                                                                                                                                                                        |
| Photos       | <p>Top side</p>  <p>Bottom side</p>  |



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## 2. Revision History

| Date       | Version | Revision History |
|------------|---------|------------------|
| 07/13/2016 | A01     | New Release      |
|            |         |                  |

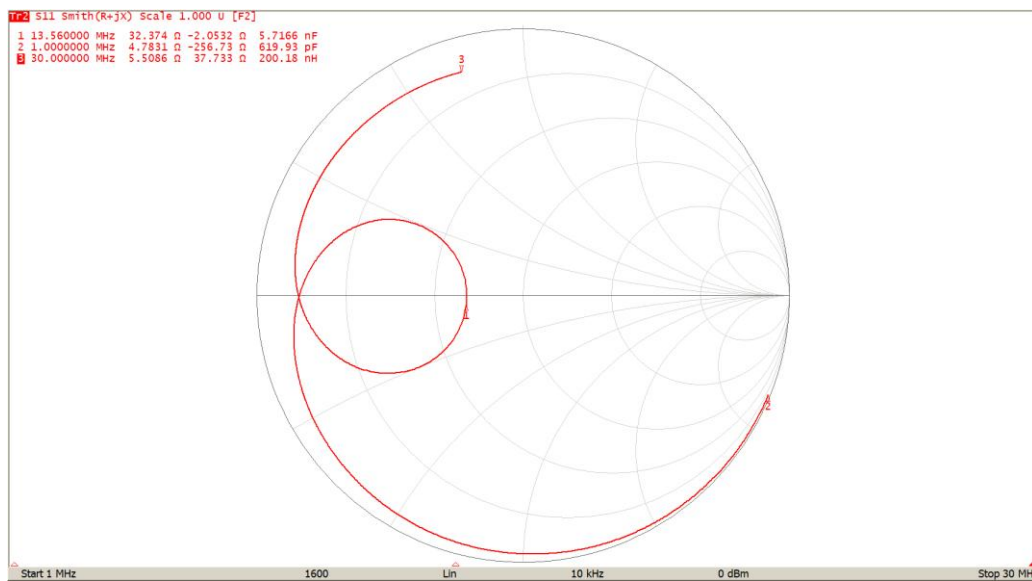
### 3. Product Specifications

#### 3.1 Antenna Design Specifications

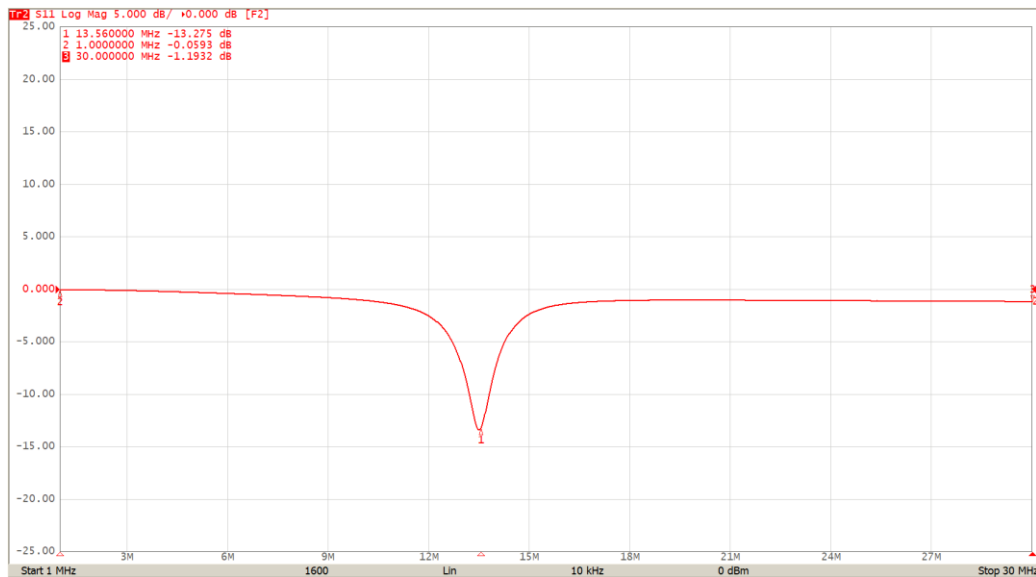
Measurement condition:

- Step 1. Connected with NFC module, DFIN-H11 of WNC
- Step 2. DFIN-H1 connected with Network Analyzer (ZVH4, Rohde & Schwarz)

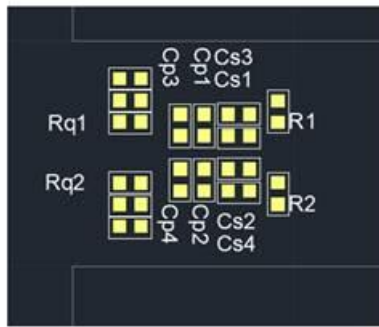
##### 3.1.1 S11 Characteristic of 13.56 MHz: Smith Chart (unit: ohm)



##### 3.1.2 S11 Characteristic of 13.56 MHz: Return Loss (unit: dB)

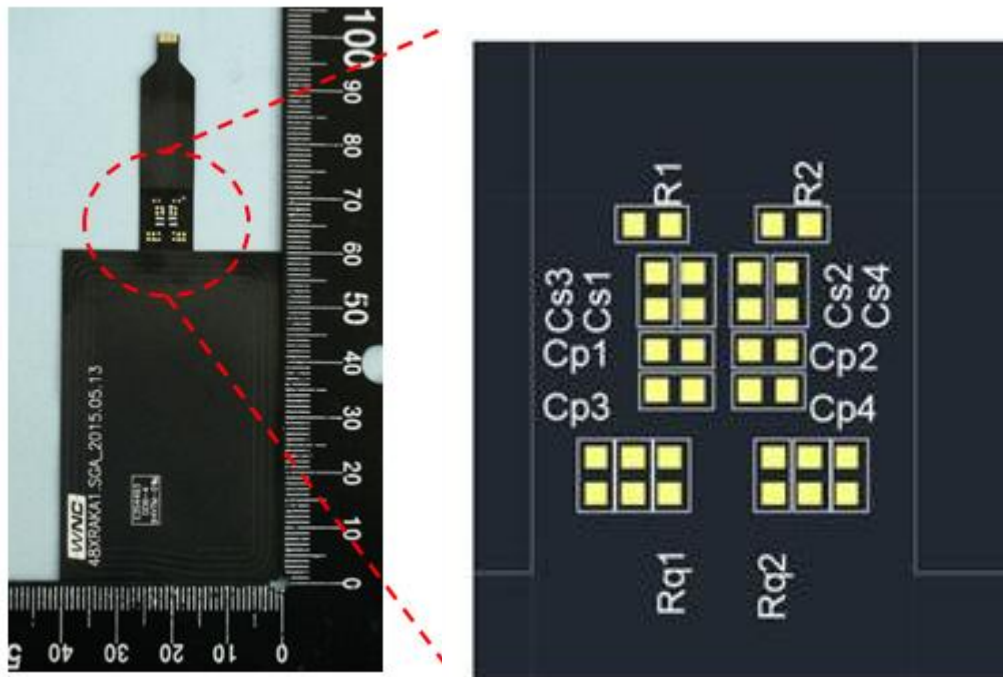


#### 3.2 NFC Antenna Structure and BOM



| Location | Value | WNC P/N (Main)                        | WNC P/N (Second)                      |
|----------|-------|---------------------------------------|---------------------------------------|
| R1,R2    | 0Ω    | <a href="#">63.R0004.L01</a> (WALSIN) | <a href="#">63.R0034.L05</a> (WALSIN) |
| CS1,CS2  | 180pF | <a href="#">78.18134.L03</a> (DARFON) | <a href="#">78.18134.L09</a> (YAGEO)  |
| CP1,CP2  | 18pF  | <a href="#">78.18044.L03</a> (DARFON) | <a href="#">78.18054.1F1</a> (DARFON) |
| Rq1,Rq2  | 6.2Ω  | <a href="#">64.6R205.6D1</a> (TA-I)   |                                       |

### 3.3 Antenna Drawing and matching component location



All measurements were performed radiated and therefore additional antenna gain documentation is not required.