

Approval sheet					
ZoomSmart project		A1005 NFC			
ZoomSmart P/N		0101020360			
Supplier name		Suzhou Huimi Communication Technology Co., Ltd			
Supplier P/N		HM0237-NFC			
Sample signing date					
Function ☐	Drawing ☐	Measurement report ☐	Material report ☐	Reliability test report ☐	Packing ☐
Supplier	Producer	ME	RF	BD	QC
ZoomSmart	ME	RF	PD	PM	QC

Note: heads of departments must manually sign for confirmation

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1. Summary

This is the NFC antenna approval sheet

Working band is 13.56MHz.

2. Antenna Structure

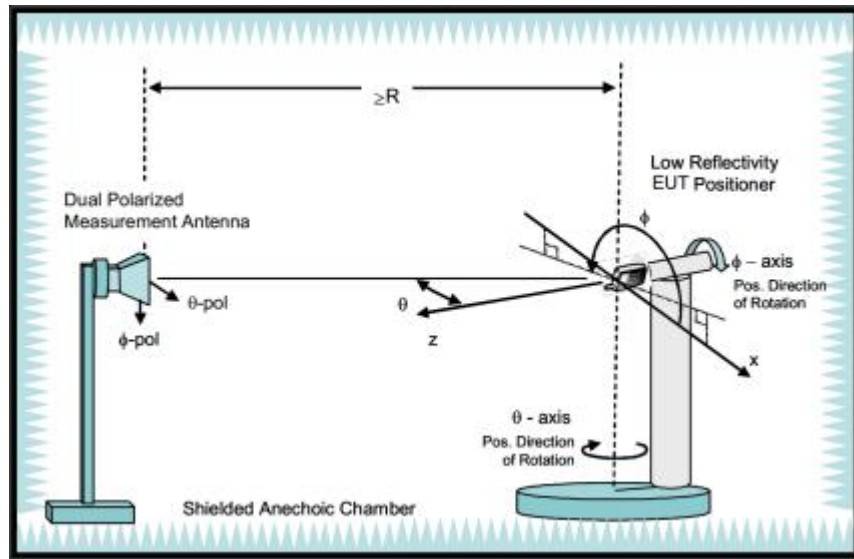
FPC+ferrite

3. Device Conditions



Picture 1 A1005 mobile phone photograph

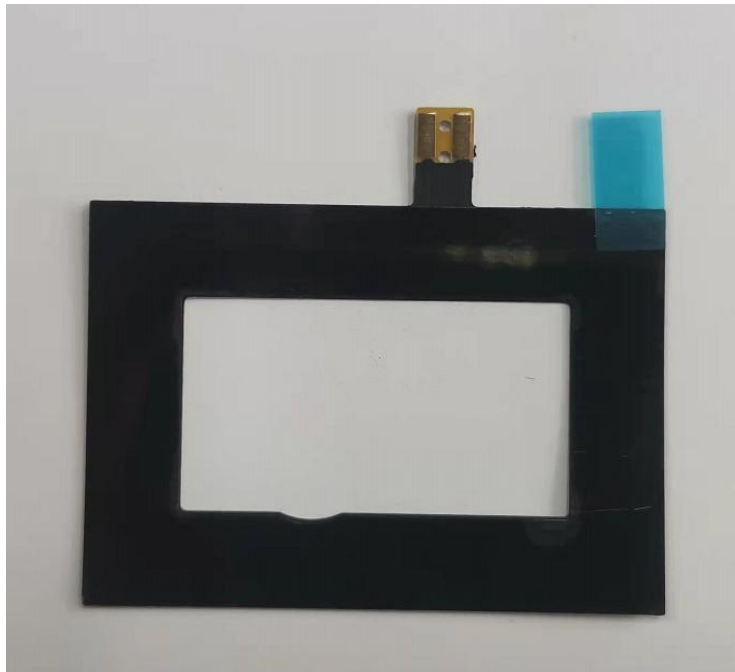
4. Test Environment



Picture 2 Test Environment photo

5. Antenna Test Results

5.1 Antenna Photos



Picture 3 NFC antenna photograph

Project Name: A1005_NFC antenna		Document: A1005_NFC antenna Approval Sheet_A	4
Date:2022-08-30	Version: A		

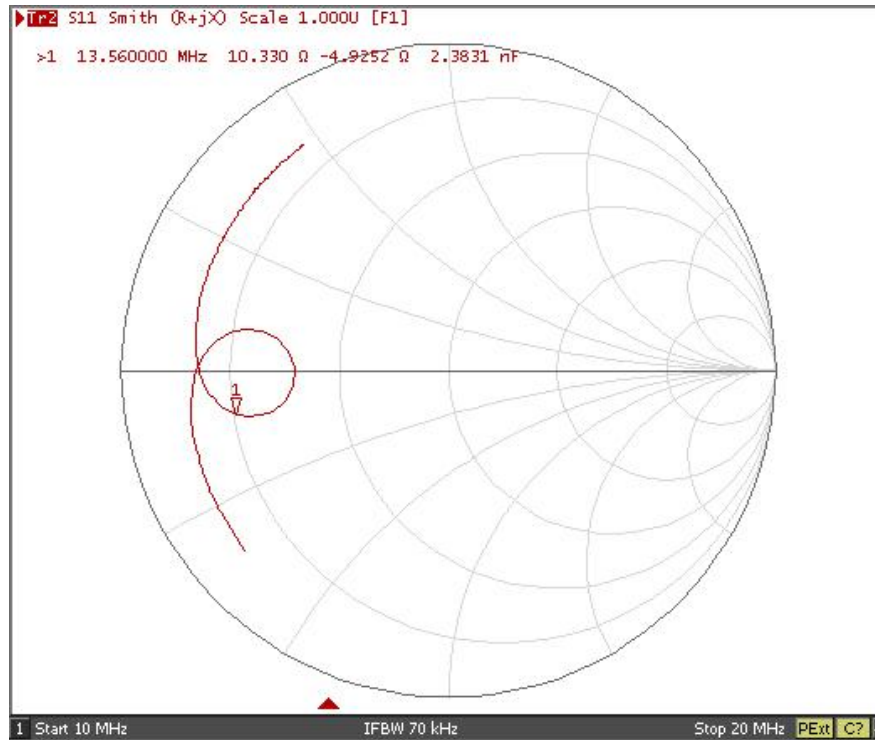


5.2 Matching Network

<i>Matching</i>	<i>Original</i>	<i>Adjustment</i>	
		<i>Value</i>	<i>Accuracy</i>
<i>C4114/C4120</i>	<i>56pF</i>	<i>39pF</i>	<i>±5%, 50V</i>
<i>C4115/C4106</i>	<i>39pF/120pF</i>	<i>150pF</i>	<i>±5%, 50V</i>
<i>L4101/L4102</i>	<i>560nH</i>	<i>160nH</i>	<i>±10%, 50V</i>
<i>C4105/C4109</i>	<i>330pF</i>	<i>680pF</i>	<i>±10%, 50V</i>

Picture 4 Matching network of NFC antenna

5.3 Smith Chart

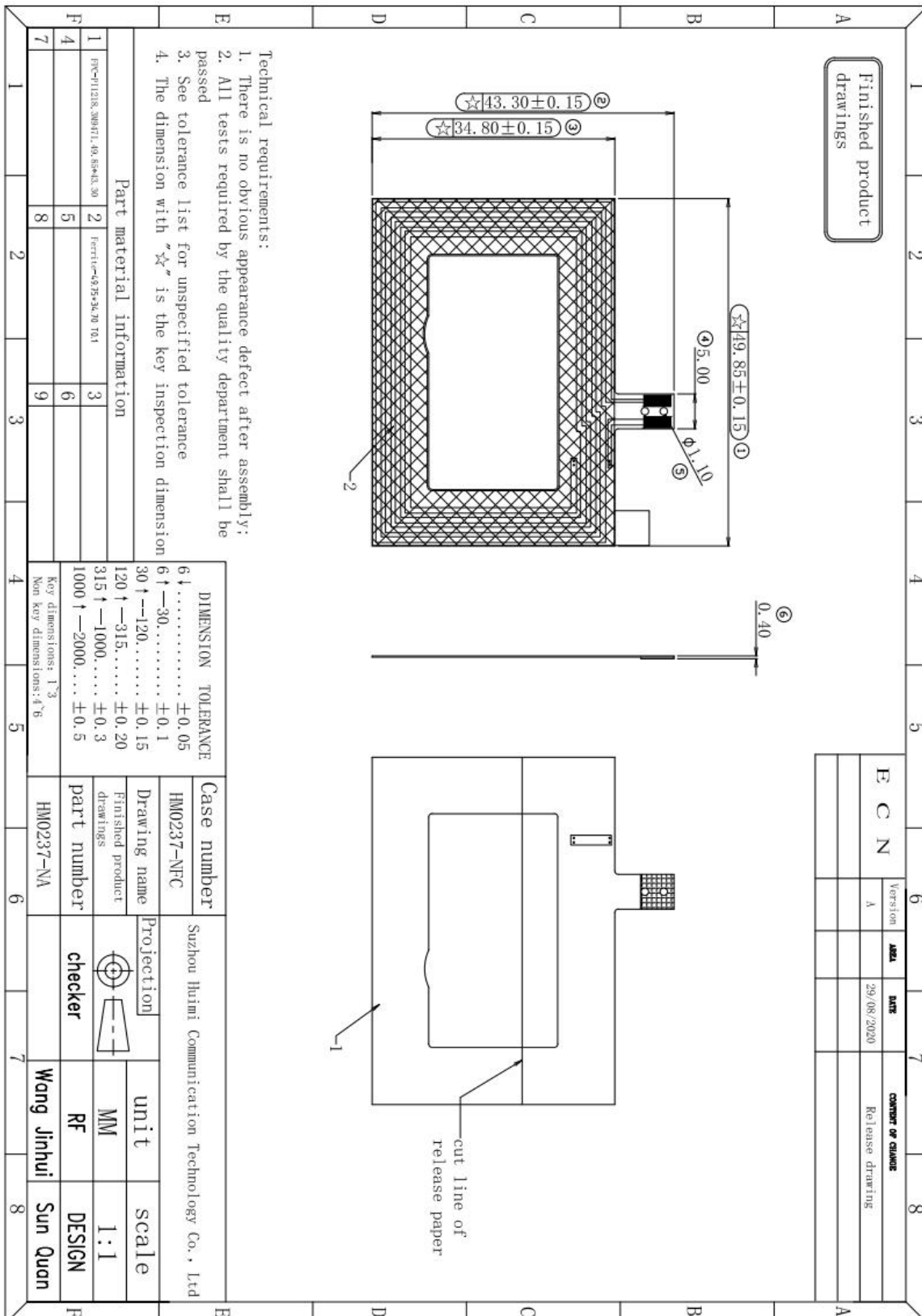


Picture 5 NFC antenna reflection coefficients (Smith)

5.4 Type Card distance test

Type Tag	Distance(mm)
NFC Type 1 Tag Readonly	55
NFC Type 2 Tag R/W Free	49
NFC Type 3 Tag R/W Free	49
NFC Type 4 Tag 8k Bytes R/W Free	42
NFC Type 5 Tag R/W Free	77
身份证	25

6. Mechanical Drawings





7. Dimension Report

[illegible]