



# 深圳力同创科技有限公司

Shenzhen Li Tongchuang Technology Co., Ltd.

## Antenna type; FPC antenna Antenn Specification

Date: November 20, 2025

◆ 日期: 2025年11月20日

Manufacturer : shenzhenshixiaohuangdoukejiyouxiangongsi  
Address:13shi, 6FBqu,shenzhoudiannaodasha,julifurendadao,wankechengshequ,  
bantianjiedao, shenzhen, Guangdong, 518000 China

1.测试工具 /Testing tool

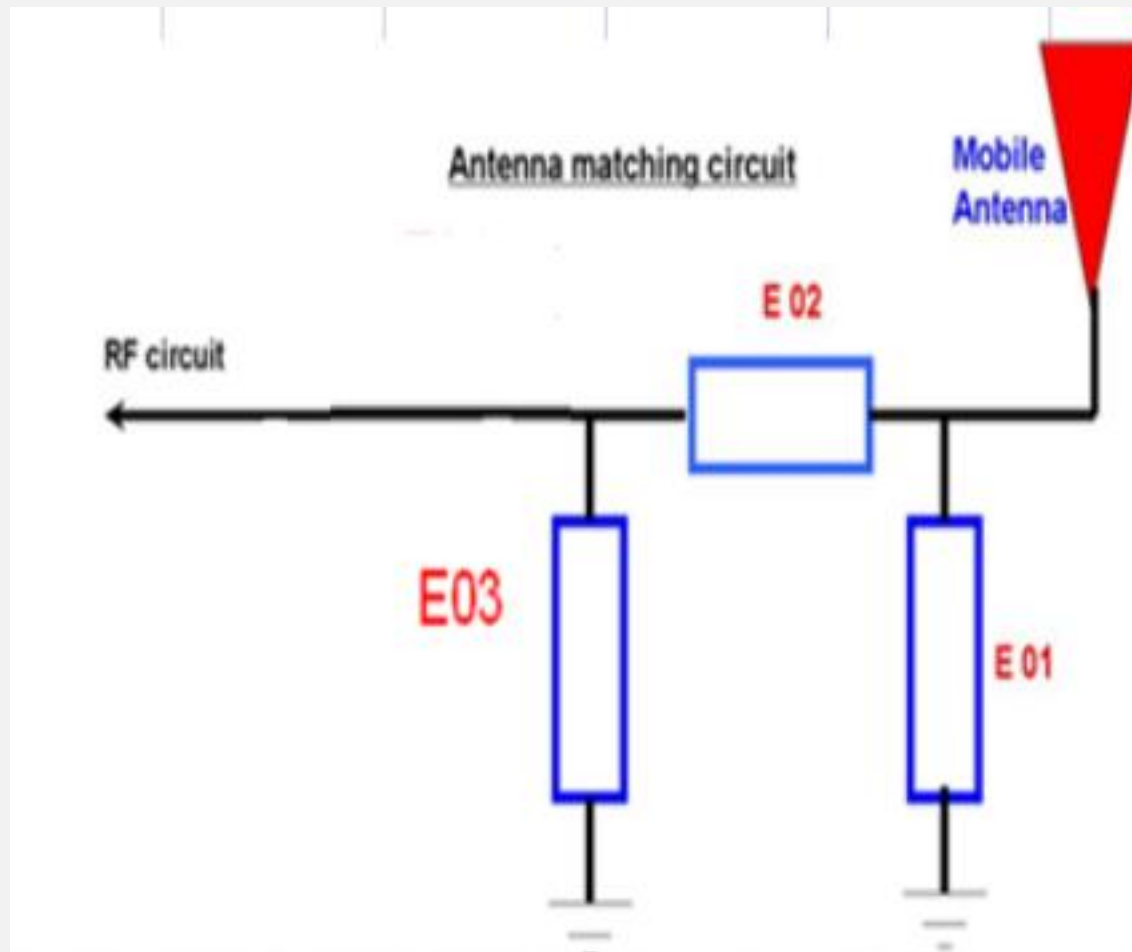
|                                                              |                                          |
|--------------------------------------------------------------|------------------------------------------|
| Vector Network Analyzer & Comprehensive Measuring Instrument | Agelent Techmologies E5071B & R&S CMW500 |
| Darkroom                                                     | Atenlab M3                               |
| Quality Testing Engineer                                     | Zhuang Zhicheng                          |
| Temperature                                                  | 25℃                                      |
| Humidity                                                     | 65% (RH)                                 |





|                 |                 |                      |              |
|-----------------|-----------------|----------------------|--------------|
| Client          | Master Chef     | Project name         | XHT01        |
| Frequency range | 2400MHZ-2500MHZ | Antenna Engineering: | Kangzhongzhu |
| Date            | 2025/11/20      | Contact number :     | 13510605042  |

R/L matching circuit diagram:



E01

NC

E02

2NH

E03

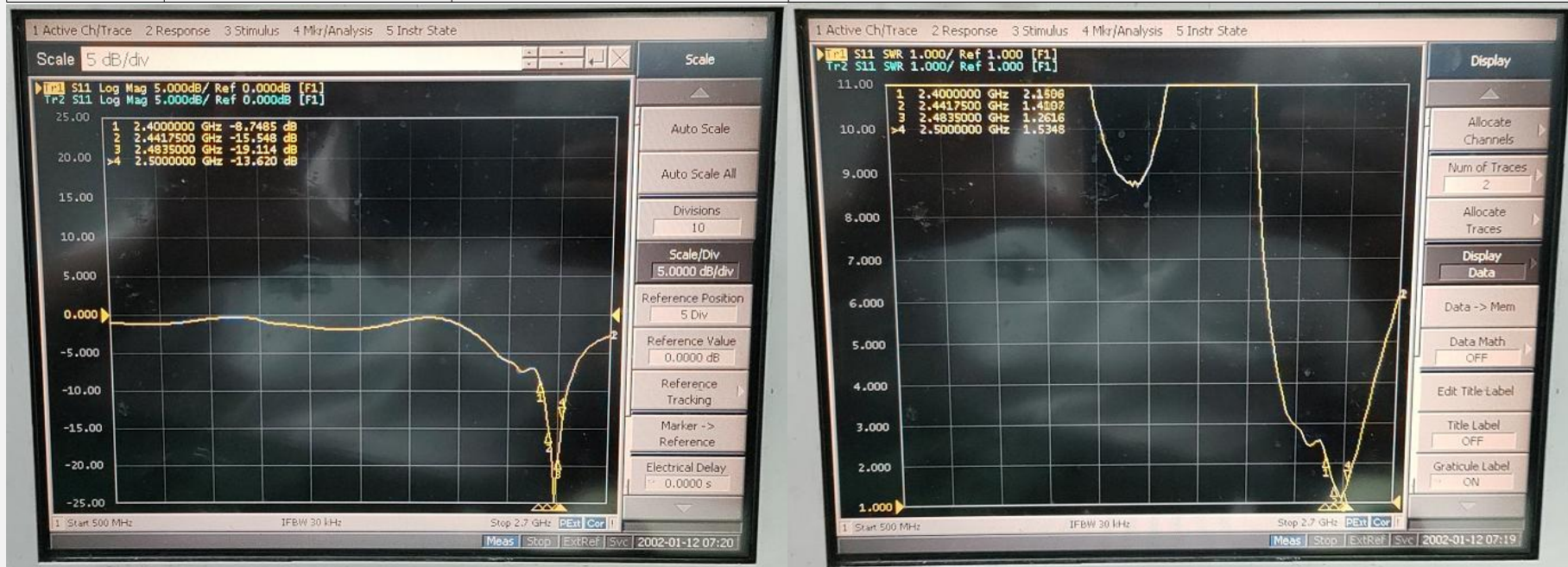
NC

Unipolar FPC Antenna

L /return loss and standing wave ratio

## LTC ANT S11 parameter Summary

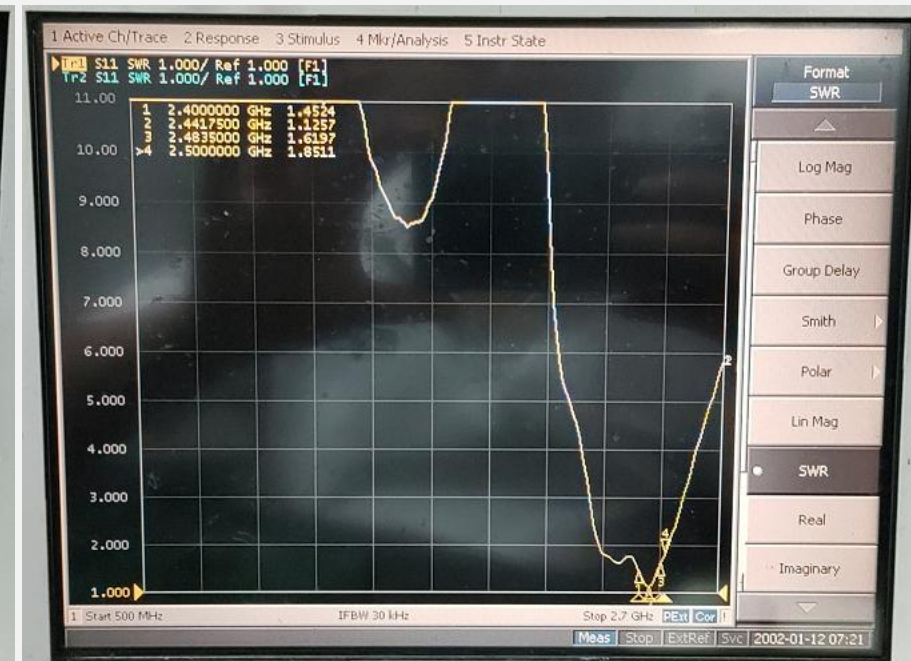
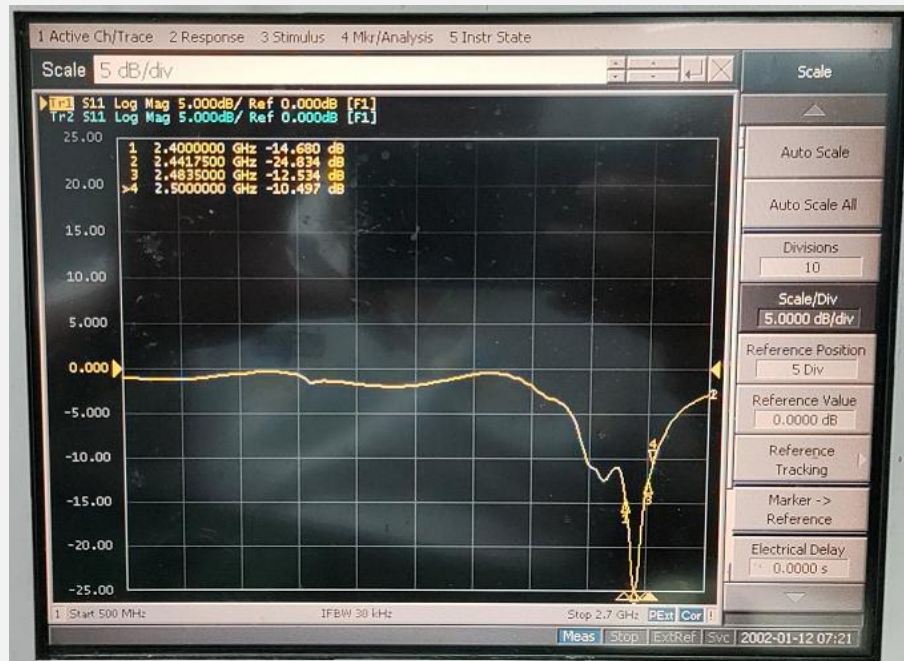
| Band      | 2400–2500 (MHz) |       |       |
|-----------|-----------------|-------|-------|
|           | 2400            | 2450  | 2483  |
| R. L (dB) | −8.7            | −15.5 | −19.1 |
| VSWR      | 2.1             | 1.4   | 1.2   |



R /return loss and standing wave ratio

## LTC ANT S11 parameter Summary

| Band      | 2400–2500 (MHz) |       |       |
|-----------|-----------------|-------|-------|
|           | 2400            | 2450  | 2483  |
| R. L (dB) | -14.6           | -24.8 | -12.5 |
| VSWR      | 1.4             | 1.1   | 1.6   |



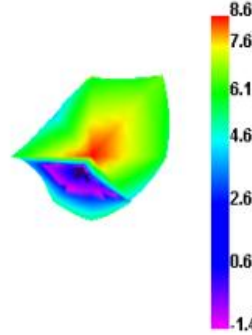
# XHT01-L-FPC antenna active test data

| Test Result     | Bluetooth TRP |       |        |
|-----------------|---------------|-------|--------|
|                 | 0             | 39    | 78     |
| Frequency (MHz) | 2402          | 2441  | 2480   |
| TRP(dBm)        | 2.44          | 3.08  | 3.39   |
| NHPRP(dBm) 45   | 2.44          | 3.08  | 3.39   |
| MAX(dBm)        | 8.6           | 8.48  | 10.03  |
| EIRP peak(dBi)  | 8.6           | 8.48  | 10.03  |
| Min(dBm)        | -6.88         | -6.79 | -15.23 |

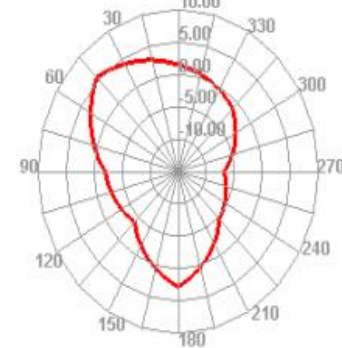
  

| Test Result     | Bluetooth TIS |        |        |
|-----------------|---------------|--------|--------|
|                 | 0             | 39     | 78     |
| Frequency (MHz) | 2402          | 2441   | 2480   |
| TIS(dBm)        | -93.68        | -91.41 | -92.08 |
| NHPIS(dBm) 45   | -93.68        | -91.41 | -92.08 |
| RSSIave         | 3.3           | 2.76   | 3.46   |
| MaxPosRSSI      | 8.64          | 7.84   | 5.04   |
| MaxPosSens      | -99.03        | -96.49 | -97.65 |
| MAX(dBm)        | 9.46          | 8.16   | 10.1   |
| EIS peak        | 9.46          | 8.16   | 10.1   |
| Min(dBm)        | -6.02         | -7.11  | -15.16 |

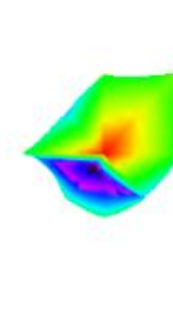
Bluetooth 0 TRP



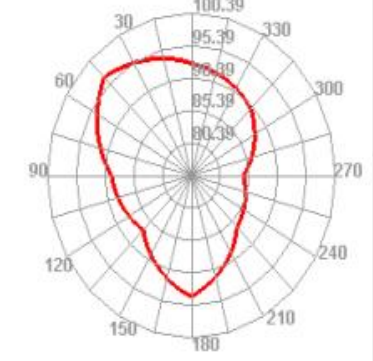
Bluetooth 0 TRP H



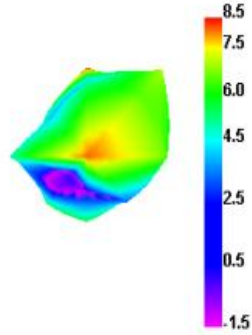
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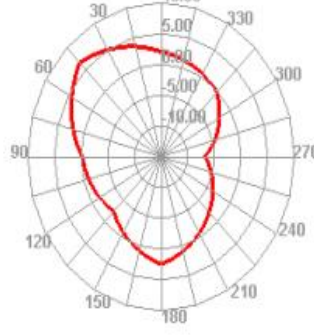
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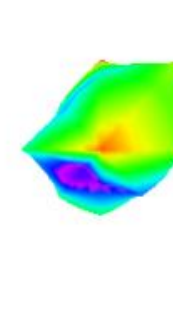
Bluetooth 39 TRP



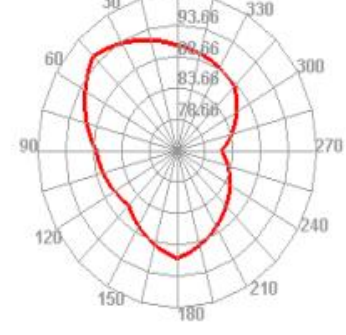
Bluetooth 39 TRP H



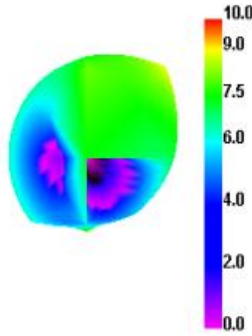
Bluetooth 39 TIS



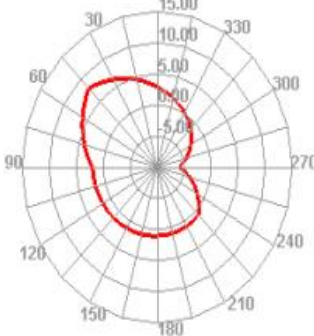
Bluetooth 39 TIS H



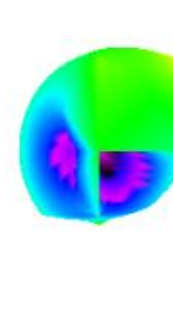
Bluetooth 78 TRP



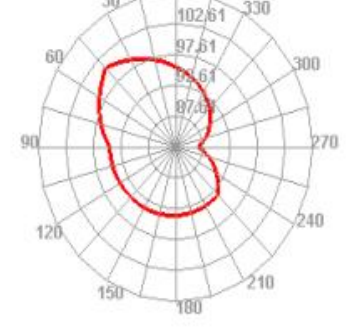
Bluetooth 78 TRP H



Bluetooth 78 TIS



Bluetooth 78 TIS H



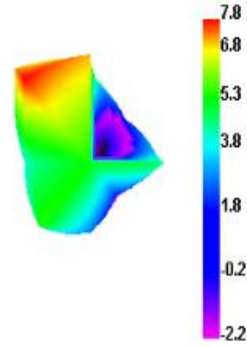
# XHT01-R-FPC antenna active test data

| Test Result     | Bluetooth TRP |       |      |
|-----------------|---------------|-------|------|
|                 | 0             | 39    | 78   |
| Frequency (MHz) | 2402          | 2441  | 2480 |
| TRP(dBm)        | 3.33          | 3.96  | 3.76 |
| NHPRP(dBm) 45   | 3.33          | 3.96  | 3.76 |
| MAX(dBm)        | 7.78          | 8.62  | 9.76 |
| EIRP peak(dBi)  | 7.78          | 8.62  | 9.76 |
| Min(dBm)        | -4.94         | -6.63 | -3.6 |

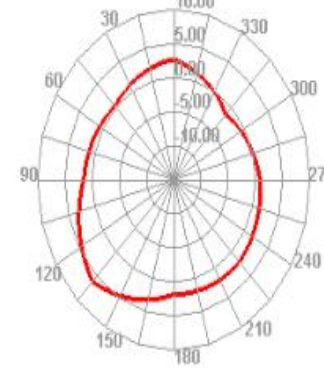
  

| Test Result     | Bluetooth TIS |        |        |
|-----------------|---------------|--------|--------|
|                 | 0             | 39     | 78     |
| Frequency (MHz) | 2402          | 2441   | 2480   |
| TIS(dBm)        | -93.38        | -92.07 | -95.45 |
| NHPIS(dBm) 45   | -93.38        | -92.07 | -95.45 |
| RSSI Ave        | 4.19          | 3.64   | 3.83   |
| MaxPosRSSI      | 8.09          | 7.57   | 8.03   |
| MaxPosSens      | -97.27        | -95.99 | -99.65 |
| MAX(dBm)        | 8.64          | 8.3    | 9.83   |
| EIS peak        | 8.64          | 8.3    | 9.83   |
| Min(dBm)        | -4.08         | -6.95  | -3.53  |

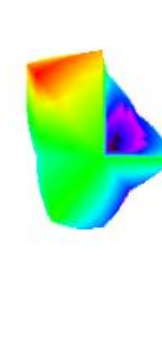
Bluetooth 0 TRP



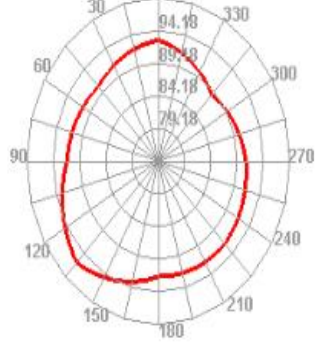
Bluetooth 0 TRP H



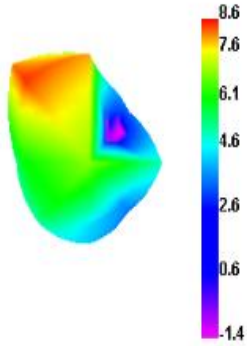
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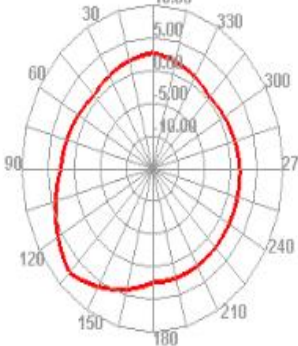
Bluetooth 0 TIS H



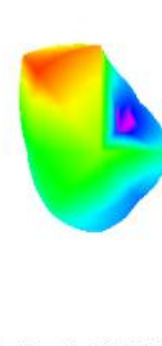
Bluetooth 39 TRP



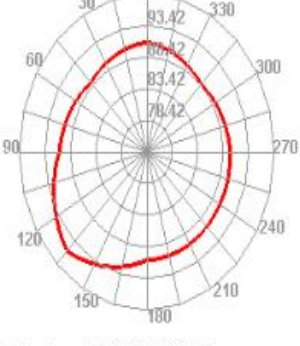
Bluetooth 39 TRP H



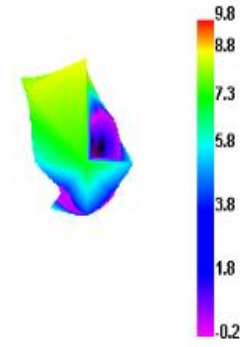
Bluetooth 39 TIS



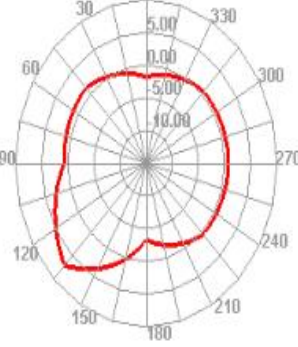
Bluetooth 39 TIS H



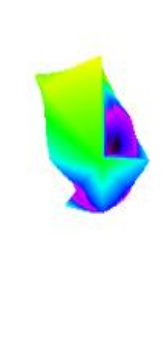
Bluetooth 78 TRP



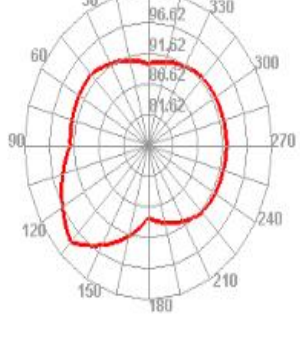
Bluetooth 78 TRP H



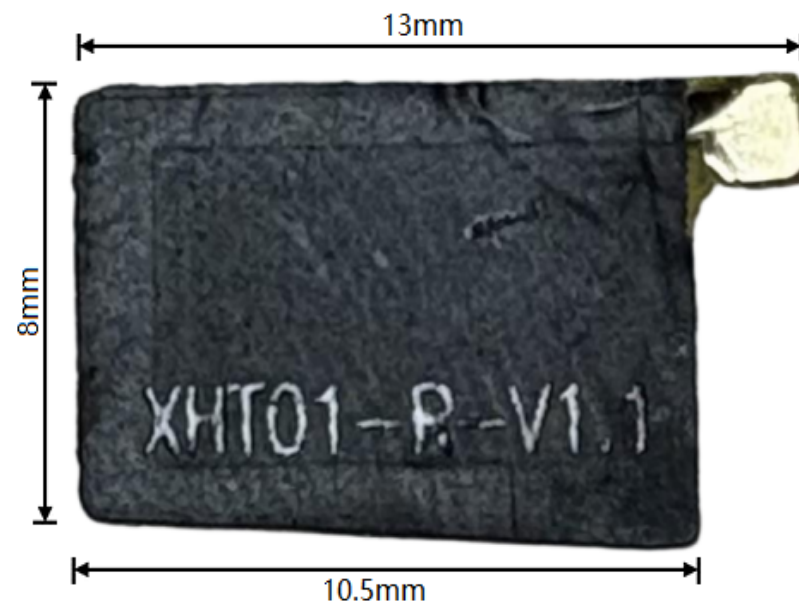
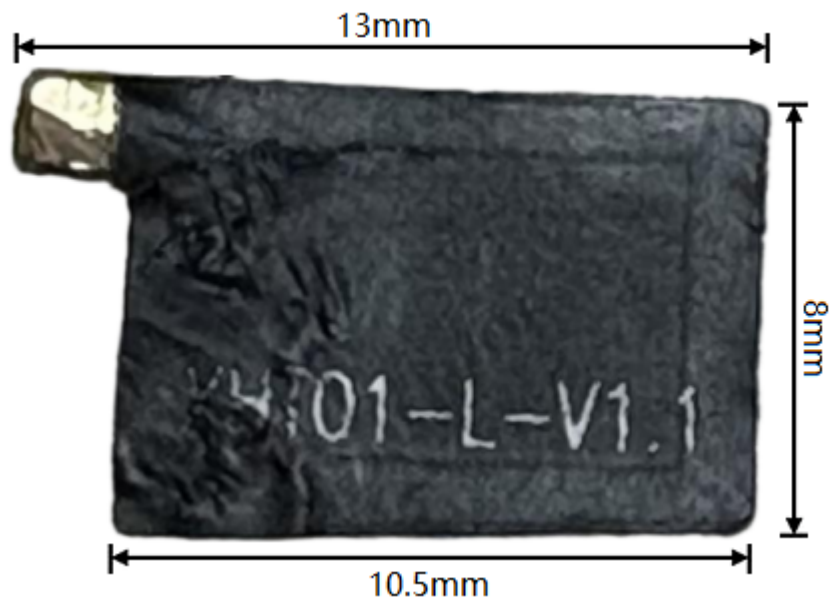
Bluetooth 78 TIS



Bluetooth 78 TIS H



# Antenna size:





**Note: Antenna misalignment may cause contact failure**





**Thank You for  
Watching. Have  
a Pleasant Col-  
laboration.**

