# Antenna Sample Datasheet

| | |
|---|---|
| customer: | Dongguan Hele Electronics Co., LTD |
| entry name: | DT11 |
| Material category: | BT antenna |
| Antenna Material | Ceramic |
| edition: | A0 |
| Date: | 2024.11.12 |

Antenna manufacturer:Hongji Wireless Communication (Shenzhen) Co., LTD
http://www.honant.com.cn
Address:12 / F, West Block B, Building 8, Huaqiang Creative Industry Park, Sightseeing Road, Guangming District, Shenzhen

# Contents



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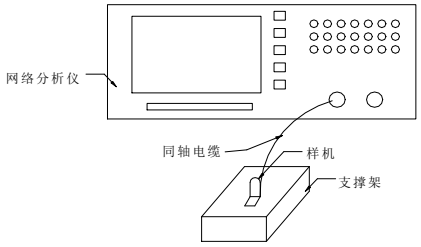
# 1：Antenna test equipment

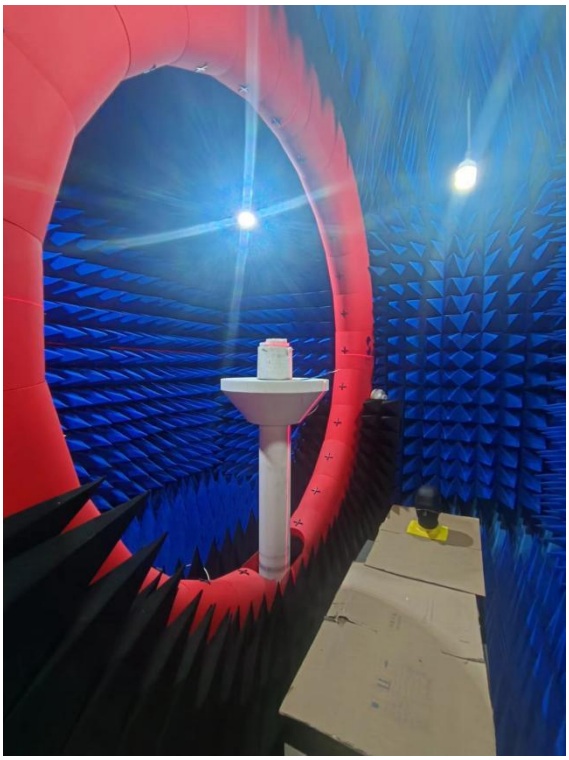
List of meters： Agilent 5071B；


## 1.1The principle diagram of the ETS anochoic chamber




Picture1.Antenna static test connection method

## 1.2 Pictures of the ETS anochoic chamber

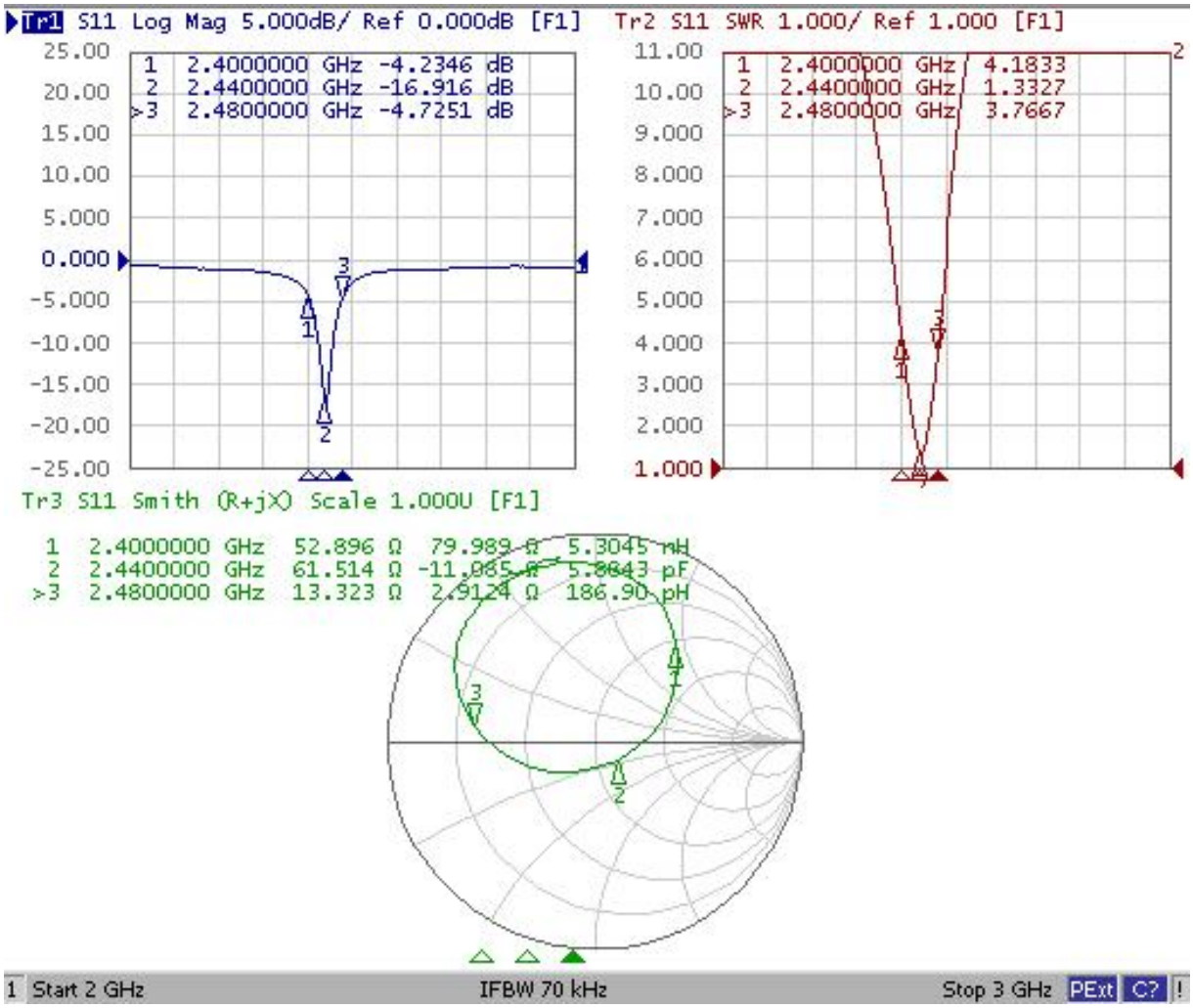


Inside the ETS anochoic chamber

Test Machine

# 2：Passive test report

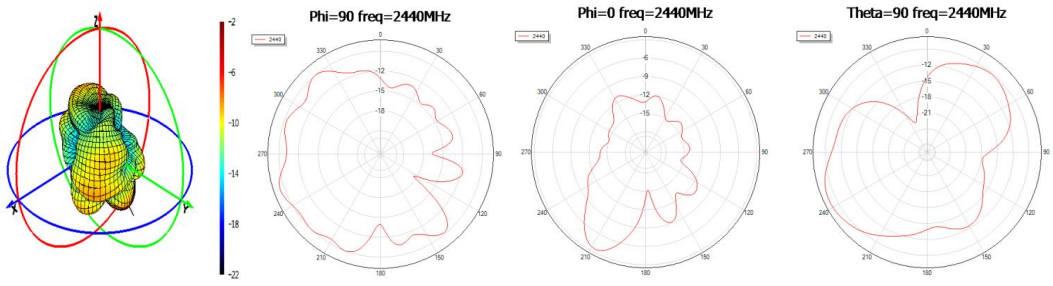
## 2.1：BT antenna S11 parameters



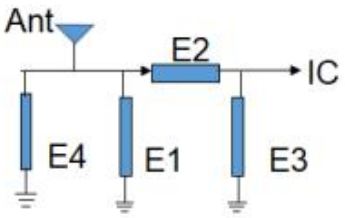
## 2.2： Passive efficiency of antenna

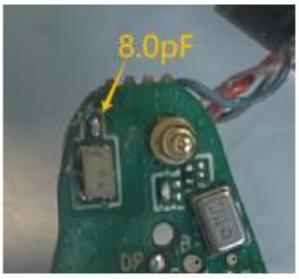
| Freq(MHz) | Gain(dBi) | Efficiency(%) |
|---|---|---|
| 2400 | -4.69 | 10.16 |
| 2410 | -3.81 | 10.89 |
| 2420 | -3.88 | 11.17 |
| 2430 | -3.15 | 11.05 |
| 2440 | 2.7 | 12.18 |
| 2450 | -3.29 | 12.11 |
| 2460 | -3.78 | 11.09 |
| 2470 | -4.15 | 11.78 |
| 2480 | -4.27 | 10.81 |
| 2490 | -4.45 | 10.55 |
| 2500 | -4.97 | 9.86 |

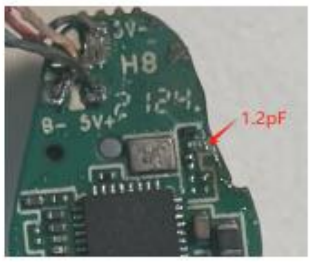
## 2.3： Passive pattern of BT antenna



## 3：Matching circuit

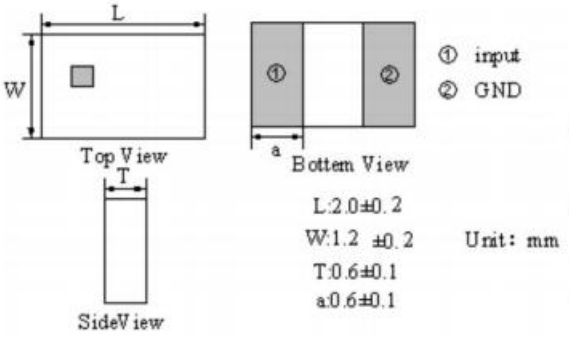



| Element | Value |
|---|---|
| E1 | 1.2pF |
| E2 | 0Ω |
| E3 | NC |
| E4 | 8.0pF |

## 4： Structural drawing




| NO. | Terminal Name |
|---|---|
| [1] | Input |
| [2] | GND |

| TYPE | L | W | T | a |
|---|---|---|---|---|
| HCA0201B2450D08S | 2.0±0.2 | 1.2±0.2 | 0.6±0.1 | 0.6±0.1 |

## 5：Antenna diagram