

Antenna Sample Datasheet

entry name:	A6108-RX-Type-C
Material category:	BT antenna
Antenna Type	Monopole
Antenna Material	PCB
edition:	A0
Date:	2025.02.19

Contents

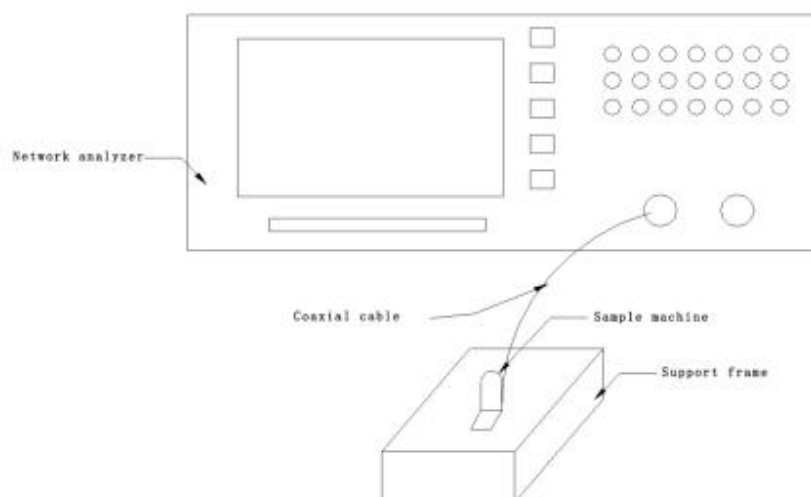
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1: Antenna test equipment

List of meters: Agilent 5071B;

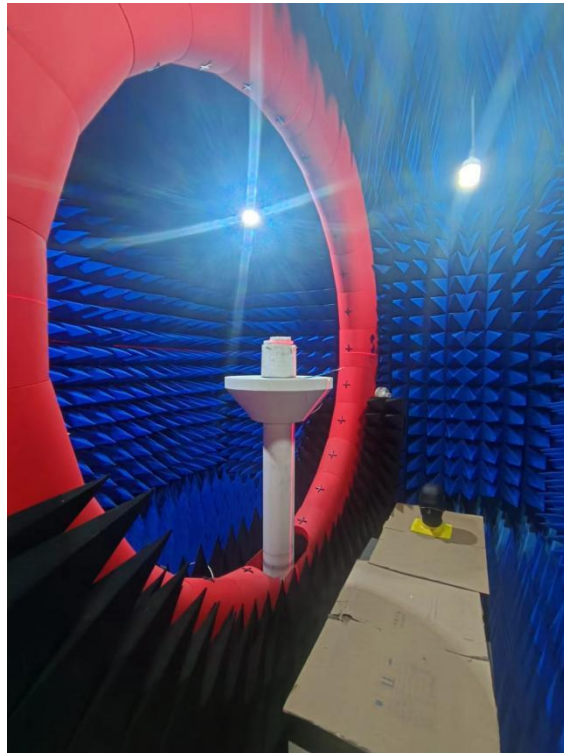


1.1The principle diagram of the ETS anechoic chamber



Picture1.Antenna static test connection method

1.2 Pictures of the ETS anechoic chamber



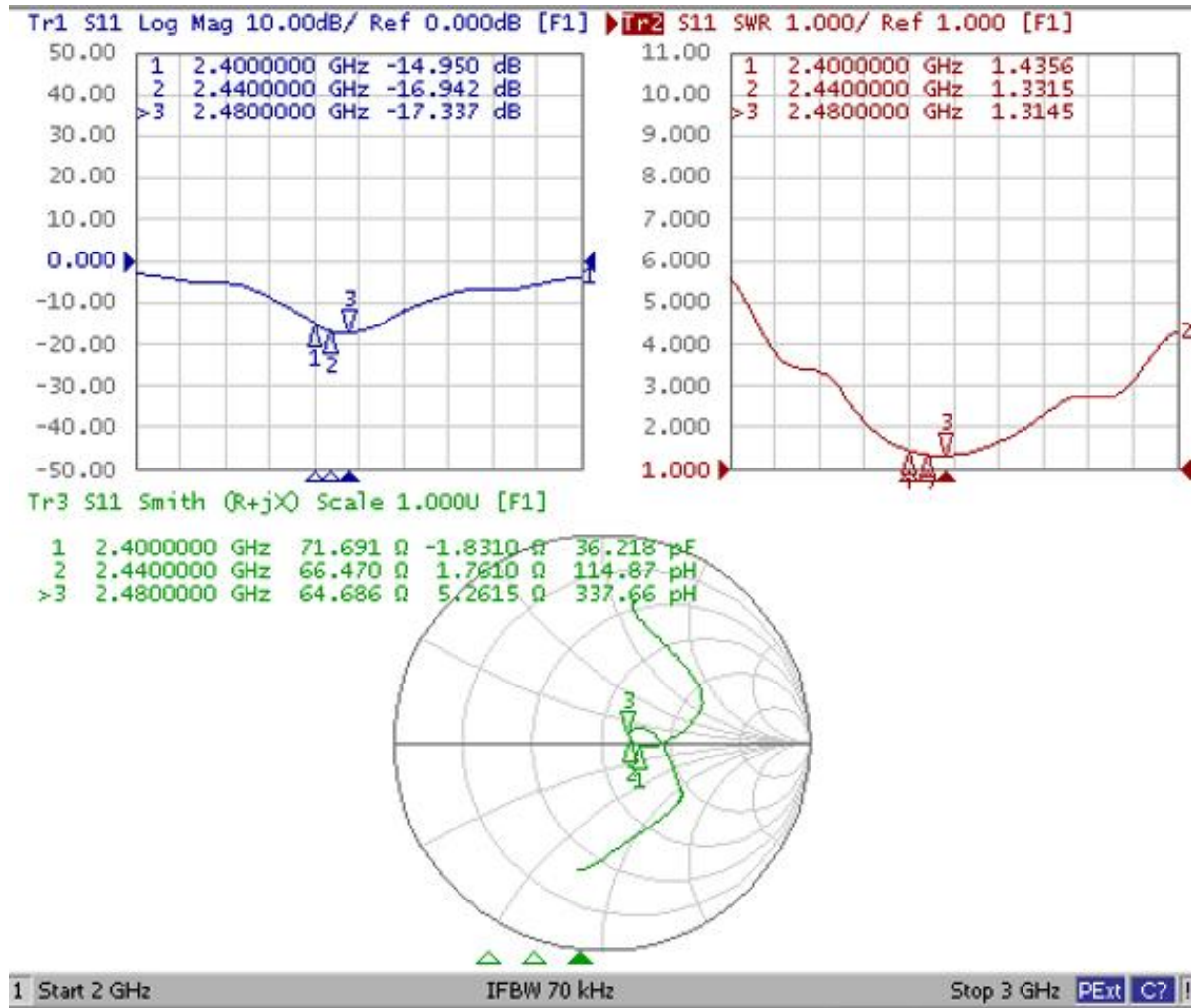
Inside the ETS anechoic chamber



Test Machine

2: Passive test report

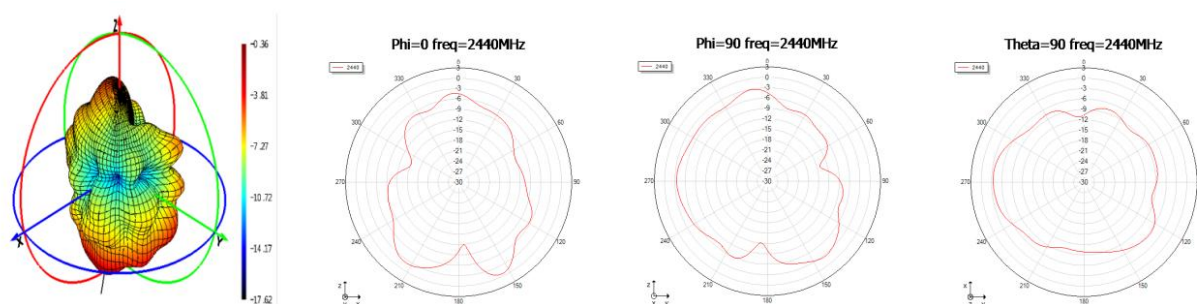
2.1: BT antenna S11 parameters



2.2: Passive efficiency of antenna

Freq(MHz)	Gain(dBi)	Efficiency(%)
2400	-0.6	26.5
2410	-0.4	27.4
2420	-0.4	28.2
2430	-0.3	29.1
2440	-0.3	30.2
2450	-0.2	30.5
2460	-0.2	30.8
2470	-0.2	31.4
2480	-0.1	31.5
2490	-0.6	26.5
2500	-0.4	27.4

2.3: Passive pattern of BT antenna



3: Structural drawing

Description

The HCA3216A2450YF11 chip antenna is designed for WIFI /Bluetooth applications. This chip antenna has excellent stability consistently provide high signal reception efficiency.

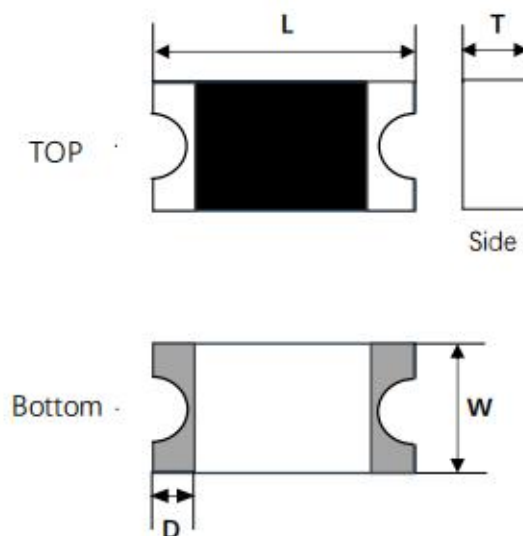
Applications

- Bluetooth earphone systems
- Hand-held devices when WIFI/Bluetooth functions are needed, e.g.
- Multiple-band Mobile phone antenna
- PHS
- FM, etc
- WLAN

Features

- Dimensions 3.2 x 1.6 x 1.2 (mm)
- Stable and reliable in performances
- Low temperature coefficient of frequency
- Low profile, compact size
- RoHS compliance
- SMT processes compatible

Dimensions /Recommended Pattern



NO.	Terminal Name
[1]	Input
[2]	NC

TYPE	L	W	D	T
HCA3216A2450YF11	3.2±0.2	1.6±0.2	0.2±0.1	1.2±0.1

4: Antenna diagram

