

Antenna Sample Datasheet

entry name:	A6108-RX-Lightning
Material category:	BT antenna
Antenna Type	Monopole
Antenna Material	PCB
edition:	A0
Date:	2025.02.24

Contents

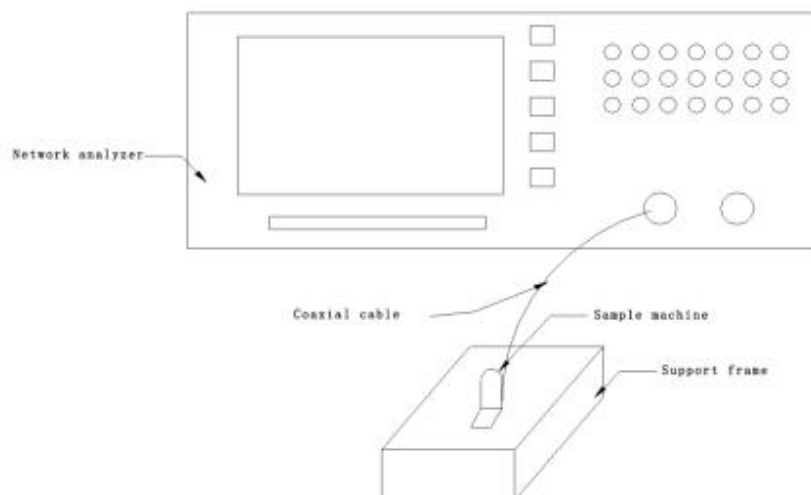
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1: Antenna test equipment

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



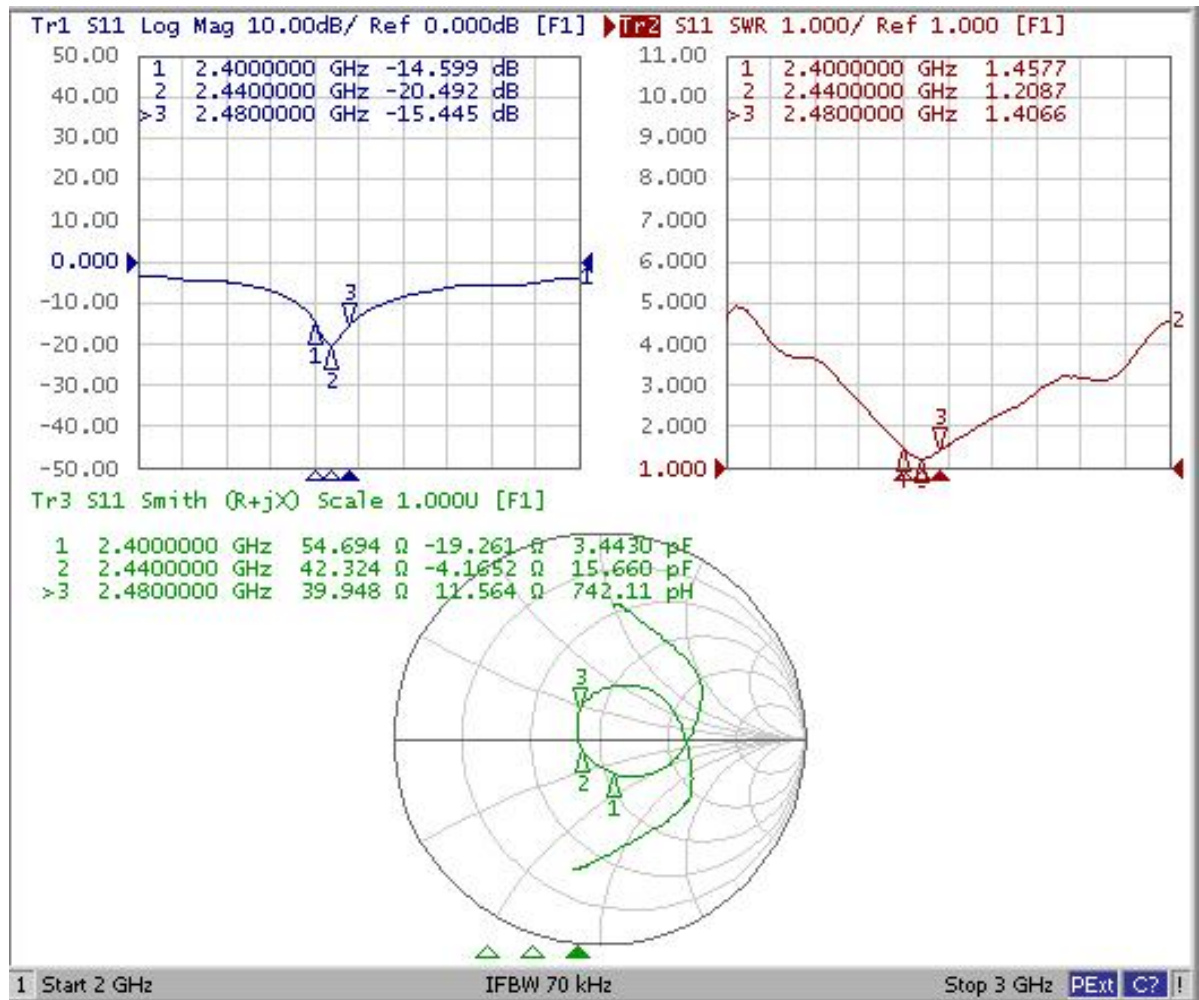
Inside the ETS anechoic chamber



Test Machine

2: Passive test report

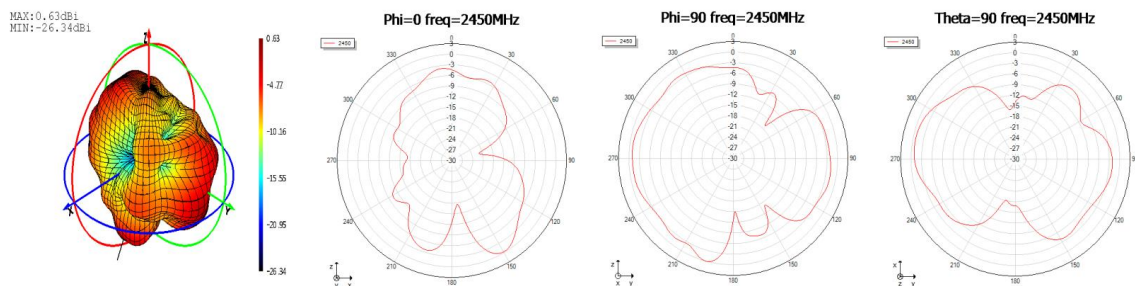
2.1: BT antenna S11 parameters



2.2: Passive efficiency of antenna

Freq(MHz)	Gain(dBi)	Efficiency(%)
2400	0.12	30.44
2410	0.27	31.16
2420	0.35	31.55
2430	0.48	32.62
2440	0.45	33.47
2450	0.63	35.29
2460	0.51	34.42
2470	0.52	34.46
2480	0.40	33.21
2490	0.31	32.57
2500	0.22	31.65

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.

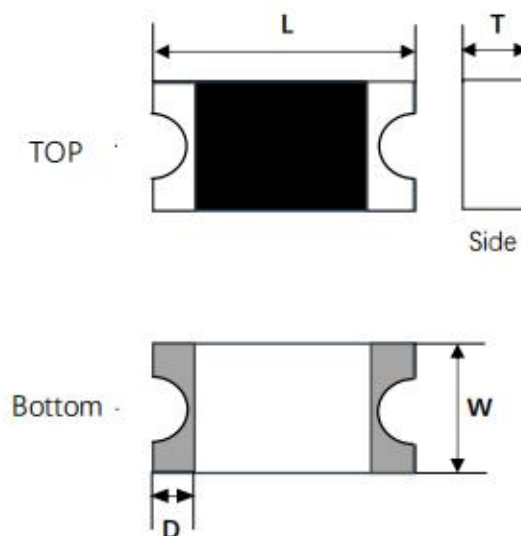
Applications

- 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

