

Antenna Sample Datasheet

entry name:	DT25-R
Material category:	BT antenna
Antenna Material	Ceramics
Date:	2026. 07. 15

Contents

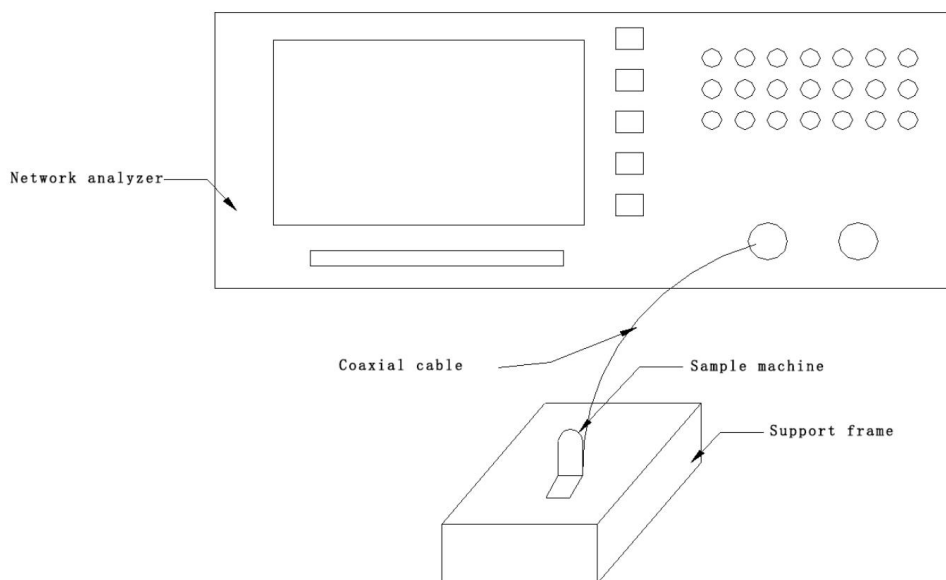
1: Antenna test equipment.....	1
2: Passive test report.....	3
3: Matching circuit.....	5
4: Structural drawing.....	6

1: Antenna test equipment

List of meters: Agilent 5071B;



1.1 The principle diagram of the ETS anechoic chamber



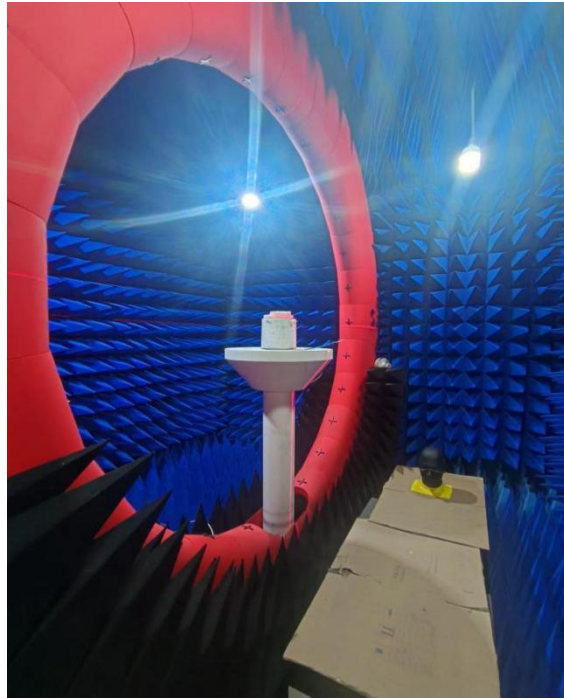
Picture1. Antenna static test connection method

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1.2 Pictures of the ETS anechoic chamber



Inside the ETS anechoic chamber



Test Machine

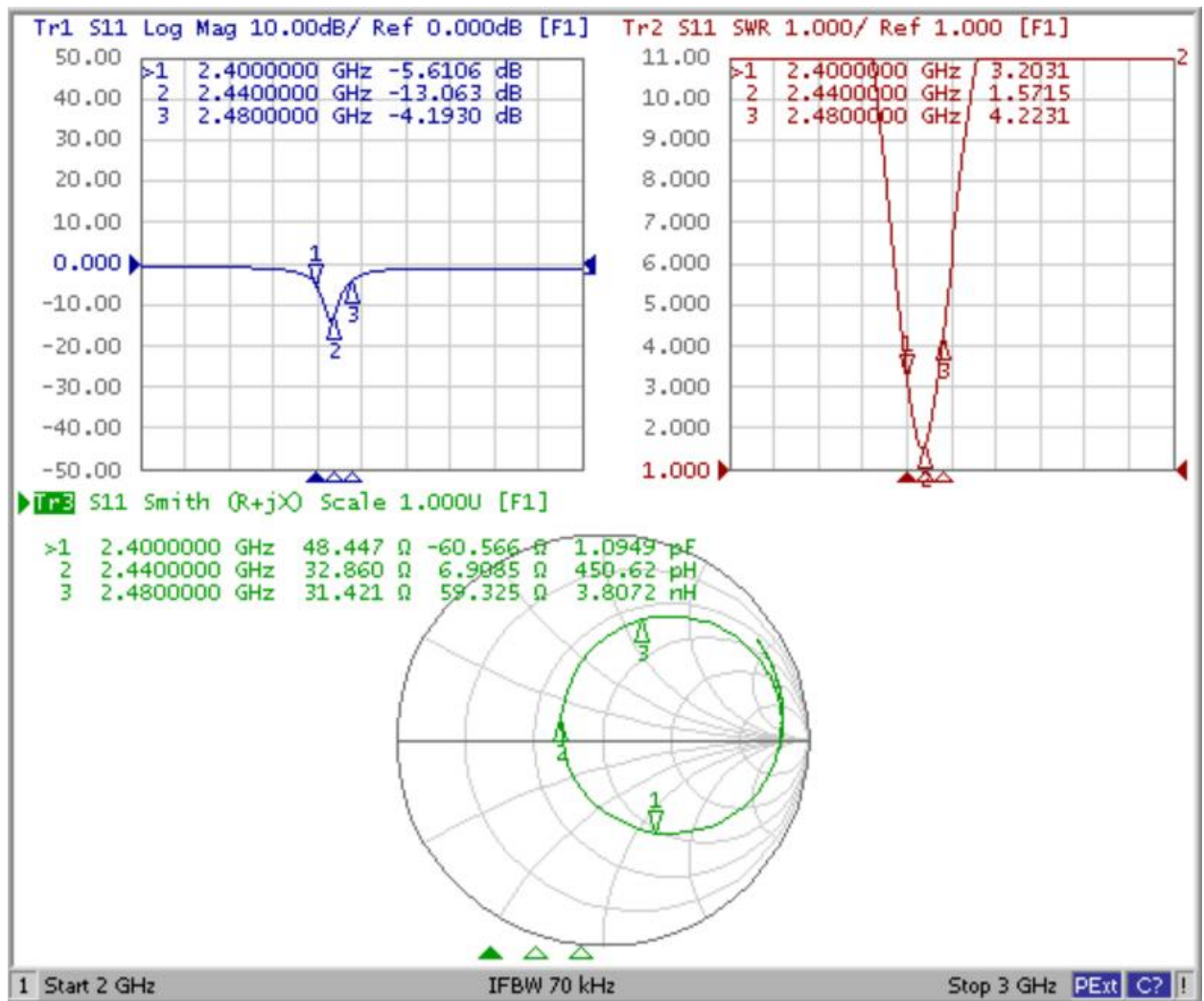
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2: Passive test report

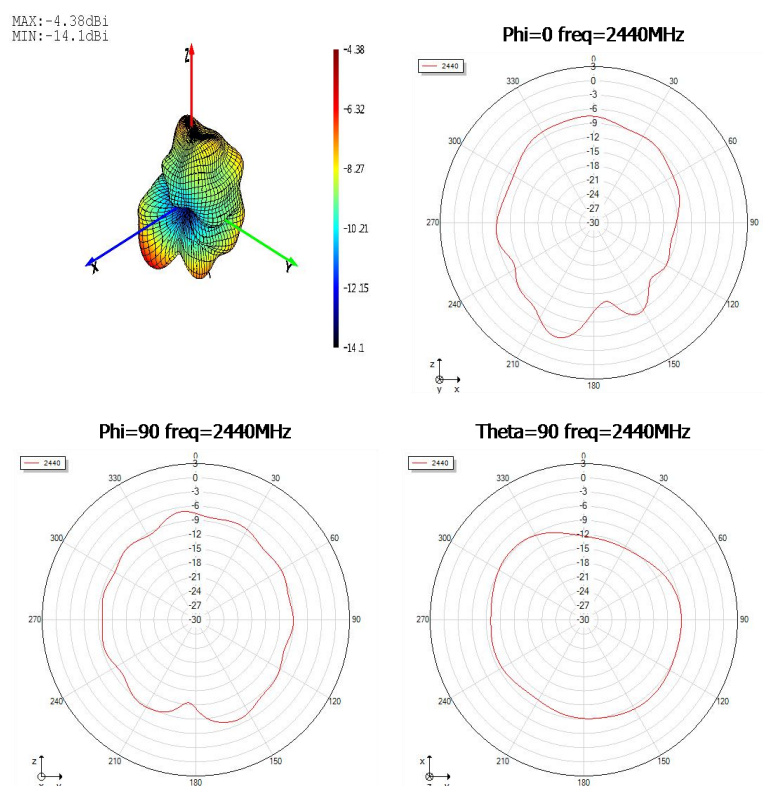
2.1: BT antenna S11 parameters



2.2: Passive efficiency of antenna

Freq (MHz)	Gain (dBi)	Efficiency (%)
2400	-5.99	10.78
2410	-5.82	11.46
2420	-5.2	12.56
2430	-4.96	13.82
2440	-4.38	14.93
2450	-4.51	14.01
2460	-4.79	13.25
2470	-5.12	10.24
2480	-5.77	9.45

2.3: Passive pattern of BT antenna

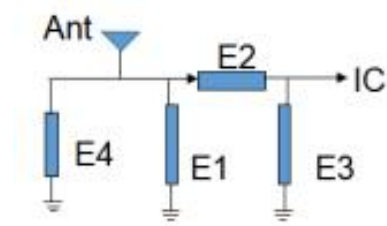


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3: Matching circuit



Element	Value
E1	N/A
E2	3.9nH
E3	N/A
E4	3.3pF

4: Structural drawing

HCA2012B2450D08S

Description

The HCA2012B2450D08S chip antenna is designed for WIFI /Bluetooth applications. This chip antenna has excellent stability consistently provide high signal reception efficiency.

Features

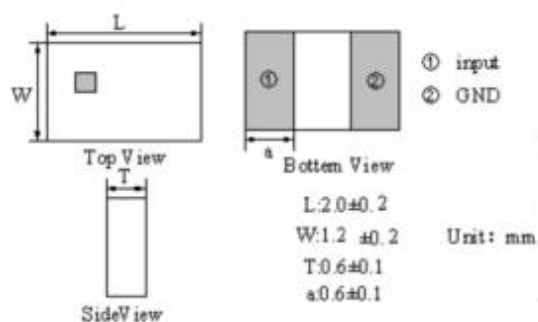
- Dimensions 2.0 x 1.2 x 0.6 (mm)
- Stable and reliable in performances
- Low temperature coefficient of frequency
- Low profile, compact size
- RoHS compliance
- SMT processes compatible

Applications

- Bluetooth earphone systems
- Hand-held devices when WIFI/Bluetooth functions are needed, e.g., Smart phone
- ZigBee, Wireless PCMCIA cards or USB dongle.

Dimensions /Recommended Pattern

Product Identification



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