

Antenna Sample Datasheet

entry name:	A3213
Material category:	BT antenna
Antenna Material	ceramic chip antenna
edition:	A0
Date:	2024. 2. 20

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Shenzhen

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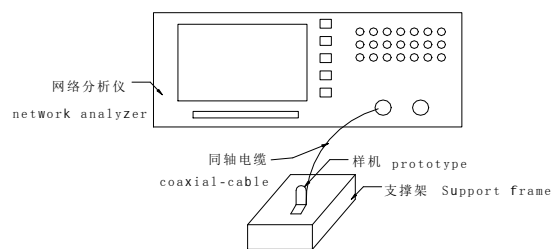
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1: Antenna test equipment

List of meters: Agilent 5071B;

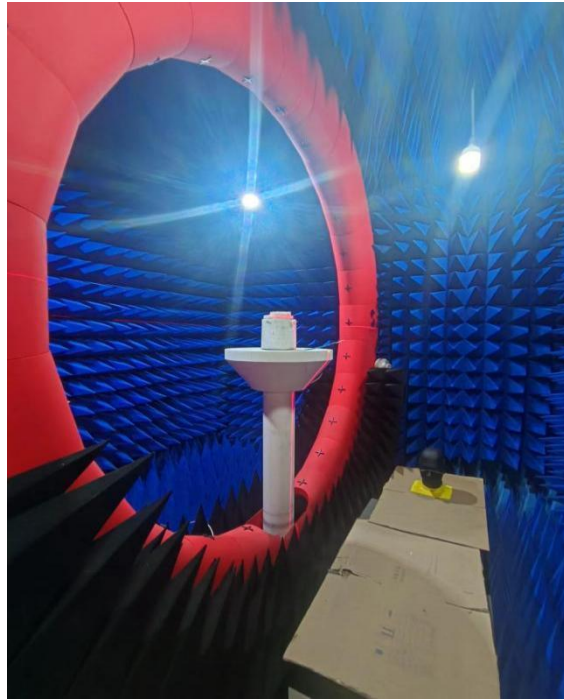


1.1 The principle diagram of the ETS anechoic chamber



Picture1. Antenna static test connection method

1.2 Pictures of the ETS anechoic chamber



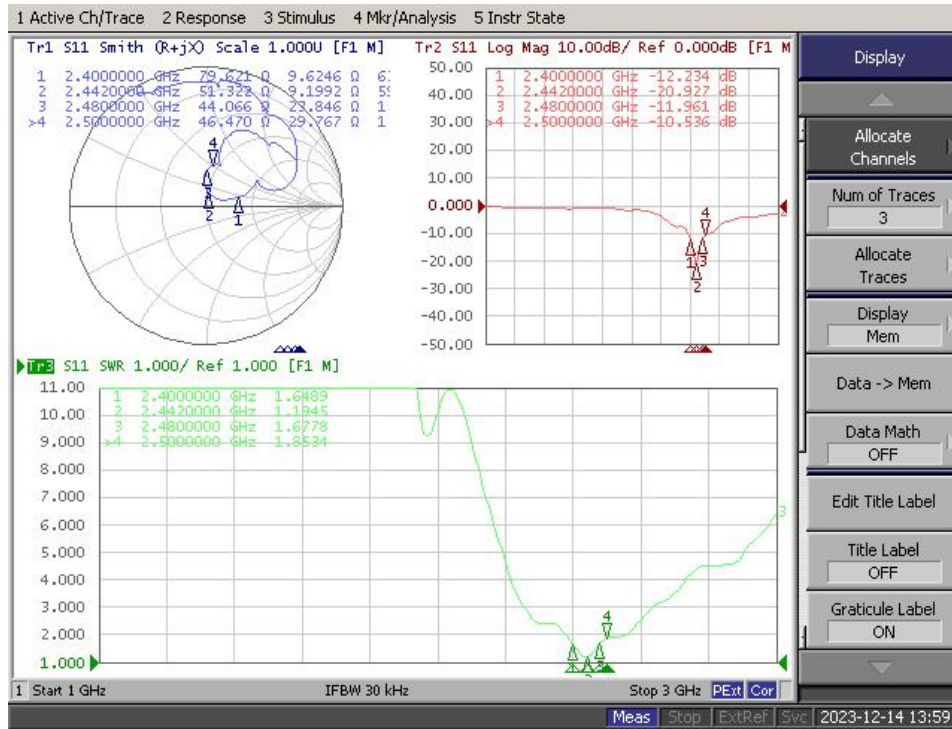
Inside the ETS anechoic chamber



Test Machine

2: Passive test report

2.1: BT antenna S11 parameters

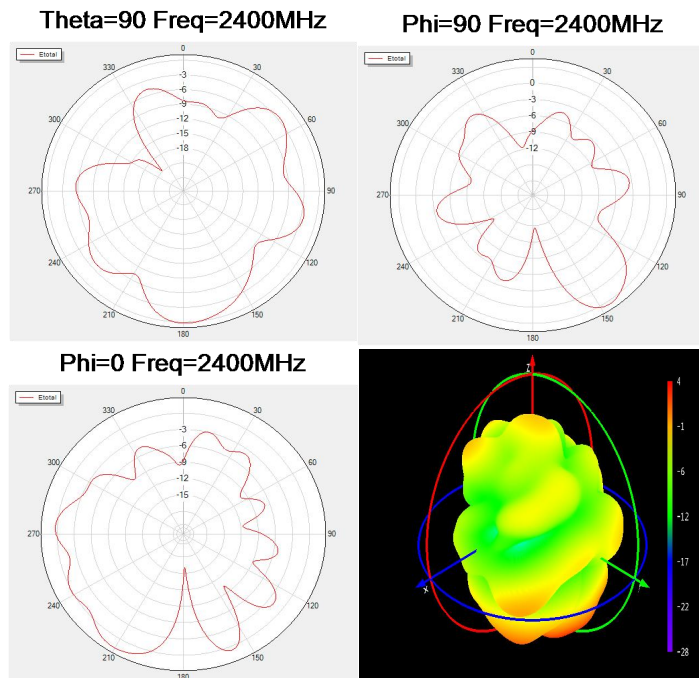


2.2: Passive efficiency of antenna

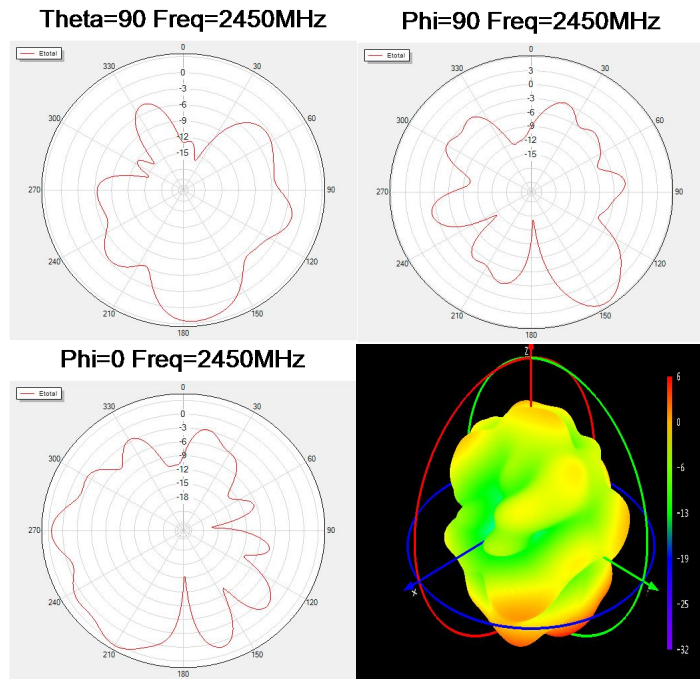
2400-2480MHz		
Freq(MHz)	Gain(dBi)	Efficiency(%)
	free space	free space
2400	3.86	49.39
2410	4.04	51.3
2420	4.27	52.21
2430	4.62	52.65
2440	4.98	52.02
2450	5.18	50.96
2460	5.15	49.7
2470	4.9	48.45
2480	4.61	47.73
Mean value	4.62	50.49

2.3: Passive pattern of BT antenna

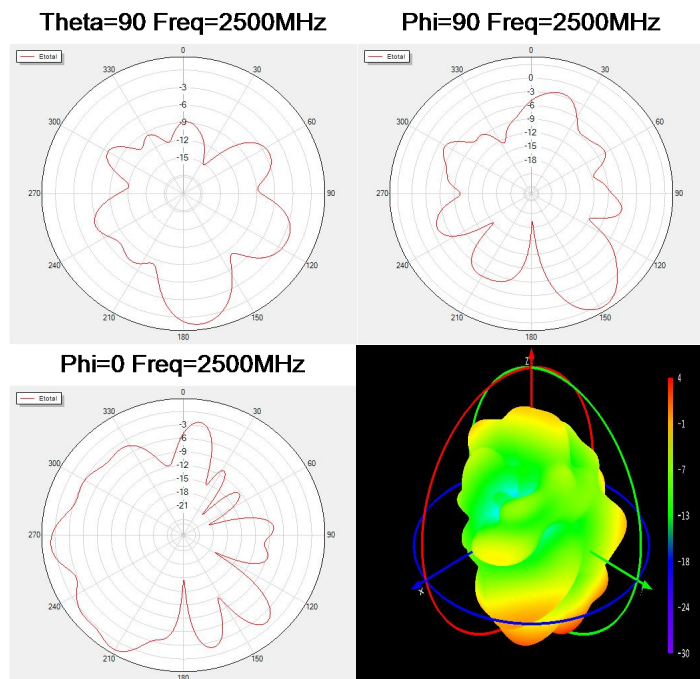
2400MHZ Unit: dBi



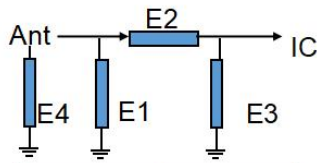
2450MHZ Unit: dBi



2500MHZ Unit: dBi



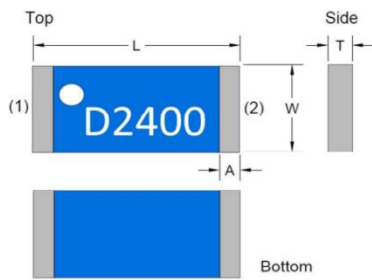
3: Matching circuit



Element	Value
E1	0.5PF
E2	0Ω
E3	N/C
E4	1.5PF
ANT	HCA3216B2450C11S



4: Structural drawing



NO.	Terminal Name
[1]	Feeding point
[2]	GND

Dimensions in mm				
TYPE	L	W	D	T
HCA3216B2450C11S	3.2±0.2	1.6±0.2	0.5±0.2	0.5±0.2

5: Antenna diagram

