

Antenna Sample Datasheet

customer:	Dongguan EDIFIER Technology Co., LTD
entry name:	NeoBuds Planar
Material category:	BT antenna
Antenna Type	Monopole
Antenna Material	FPCB
edition:	A0
Date:	2024. 12. 10

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

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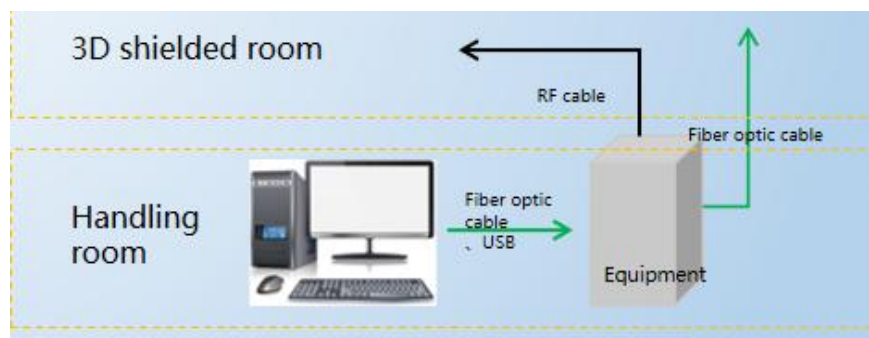
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1: Antenna test equipment

List of meters: Agilent 5071B;

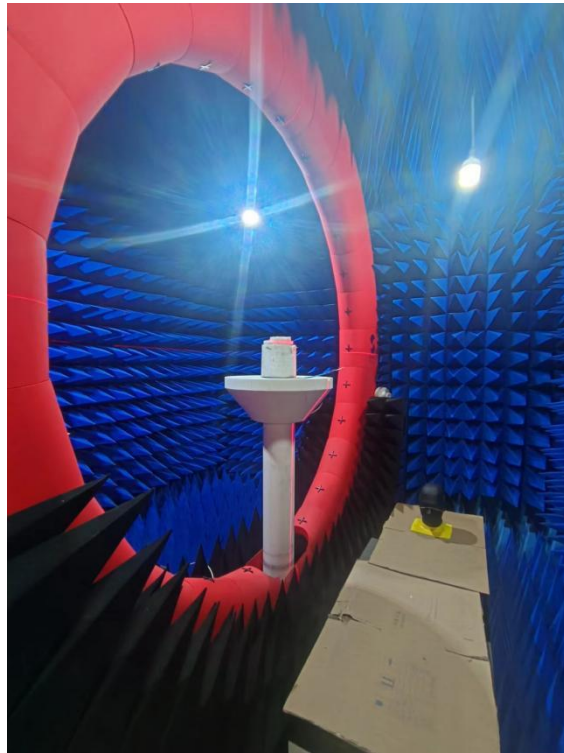


1.1 The principle diagram of the ETS anechoic chamber



Picture1. Antenna static test connection method

1.2 Pictures of the ETS anechoic chamber



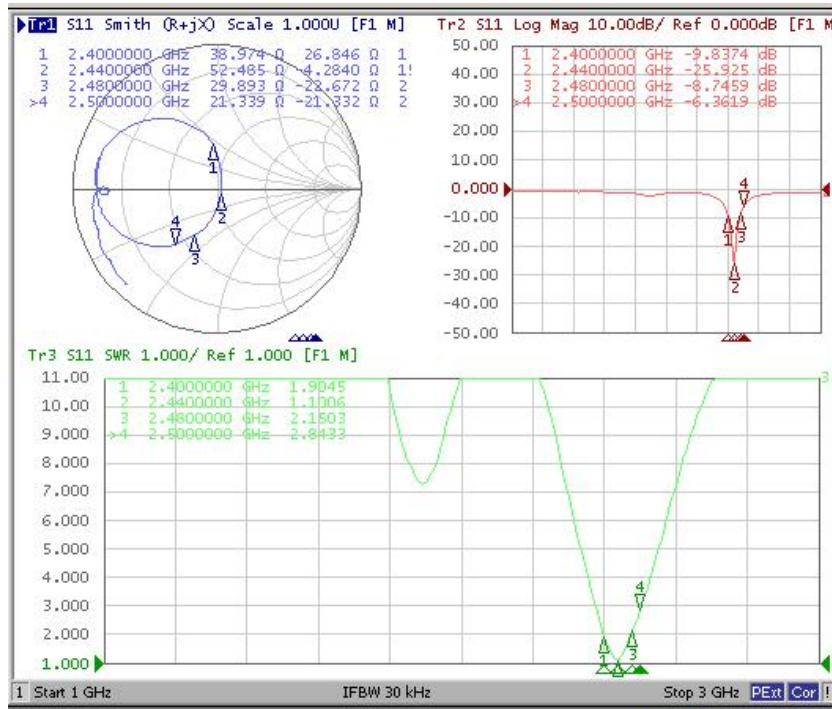
Inside the ETS anechoic chamber



Test Machine

2: Passive test report

2.1: BT antenna S11 parameters

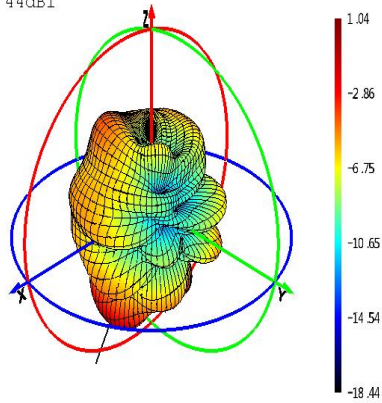


2.2: Passive efficiency of antenna

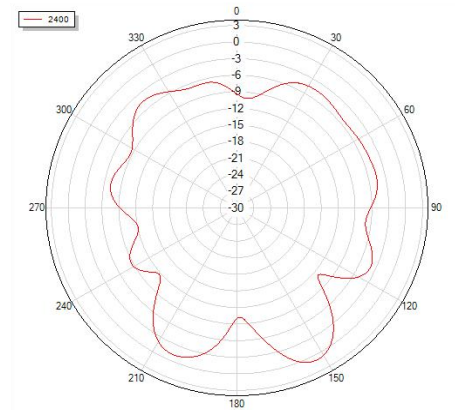
Freq(MHz)	Gain(dBi)	Efficiency(%)
2400	1.04	18.66
2410	1.28	19.45
2420	1.31	19.58
2430	1.54	19.9
2440	1.31	18.8
2450	1.1	18.37
2460	0.8	17.78
2470	0.83	17.33
2480	0.47	17.23

2.3: Passive pattern of BT antenna

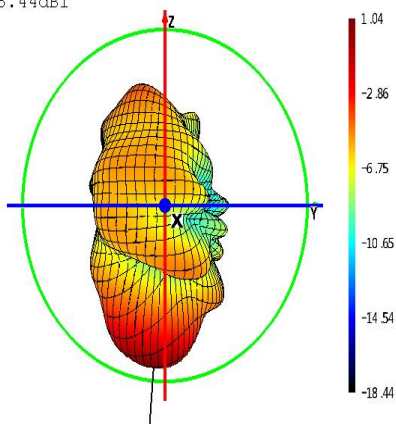
MAX:1.04dBi
MIN:-18.44dBi



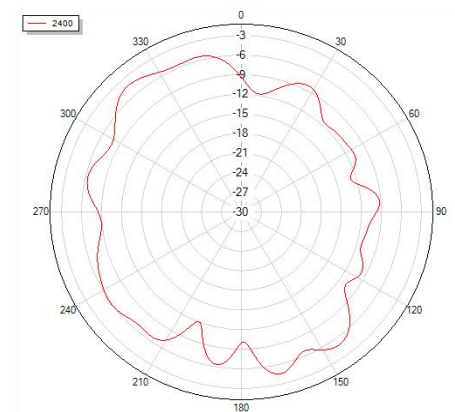
Phi=0 freq=2400MHz



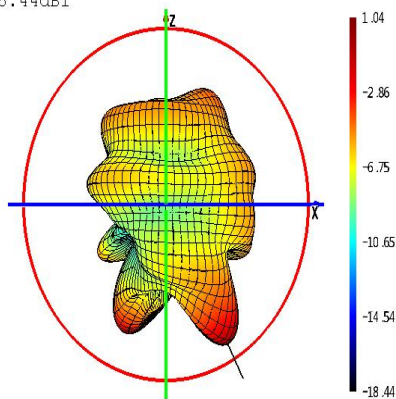
MAX:1.04dBi
MIN:-18.44dBi



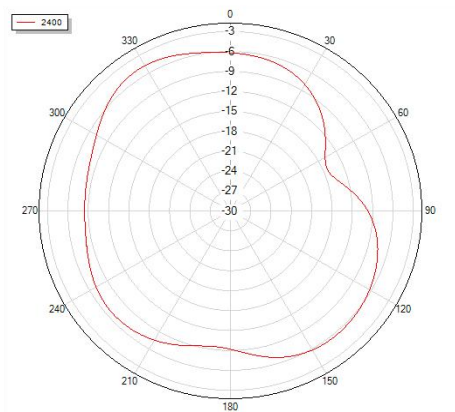
Phi=90 freq=2400MHz



MAX:1.04dBi
MIN:-18.44dBi



Theta=90 freq=2400MHz



3. Structural drawing-Right

Environmentally friendly RoHS 2.0					
A	B	C	D	E	F
				Version A0	Date 2024/11/11
				Change Description Initial debug sample	
Vertical view End view Bottom view					
NOTES: 1. The green part is made of copper; Blank is the base material. 2. The yellow part is the gold-plated area; Blue is the adhesive area. 3. The die can not hurt the line, and the gold-plated area should be connected with the line; 4. The surface should not have dirt, scratches, black spots, breakage and falling off after gold plating; 5. Material: PPC single-sided [P1 (E) one pair and a half substrate (0.063mm) + glue (3M 9471 0.05mm) + surface black half to half covering film (0.0275mm)]; 6. The back glue is 3M 9471; 7. Gold finger surface gold-plated (thickness: ≥1μ), no oxidation phenomenon (salt spray test required); 8. After 48±1 hours of salt spray test, there were no corrosion points on the surface and the coating fell off; 9. The front screen print is in bright white font. The screen print position and font size are shown in the figure; 10. Mark * as the key dimensions, please check according to standard tolerances if not marked; 11. Meet our ROHS,Reach, halogen-free requirements. 12. Physical and chemical properties: 1. The golden finger should not have oxidation phenomenon (salt spray test is required) 2. After 48 ± 1 hour of salt spray test, There are no corrosion points on the surface and the coating is not peeling off.					
TOLERANCE TABLE APPROVED: Mao Li Ping CHECKED: LONG TAO DRAWING: YU JIANG BO PRODUCT NAME: Antenna-PPC PRODUCT NUMBER: HJ Neobuds Palat-A0 CUTTING TECHNOLOGY: HALF CUTTING PROCESS VERSION: A0 PROPORTION: 1:1 PAGE SIZE: By Graph zoom PAGE NUMBER: 1/1					
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