
Antenna data sheet

Antenna Type: FPC antenna

Antenna Model: HZ1284

Peak Gain: 1.17dBi

Manufacturer: Shenzhen Blue Sea Navigation Technology Co., LTD

**Address: No.17 Huating Road, Shuiwei Community, Dalang Street, Longhua District, Shenzhen
Plant 303**

Summary

This report summarizes the electrical results of the antenna to support the wireless projection test fixture for further testing, as follows:



Antenna Test Equipment Introduction

Test of antenna input characteristics using Agilent E5071C and Agilent 5062A vector network analyzer; The radiation pattern of the antenna are tested using the Satimo starlab 3D near field Anechoic Chamber , and the instrument is used to agilent8960 E5515 and Agilent E4438C. The test coordinates of the darkroom are as follows:

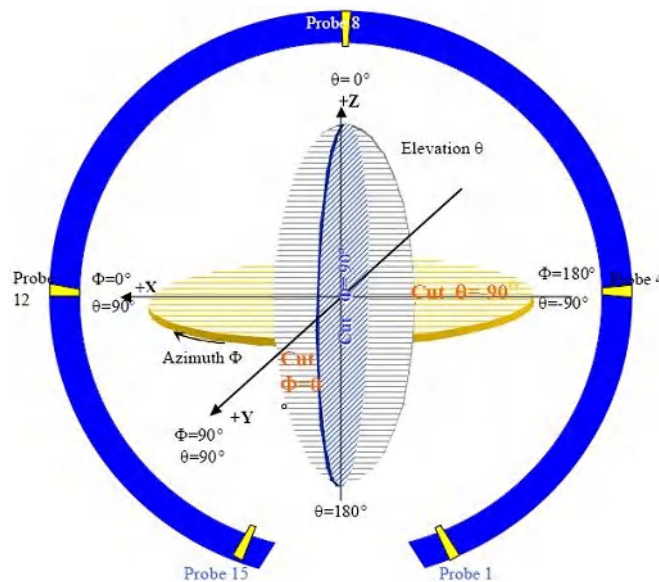
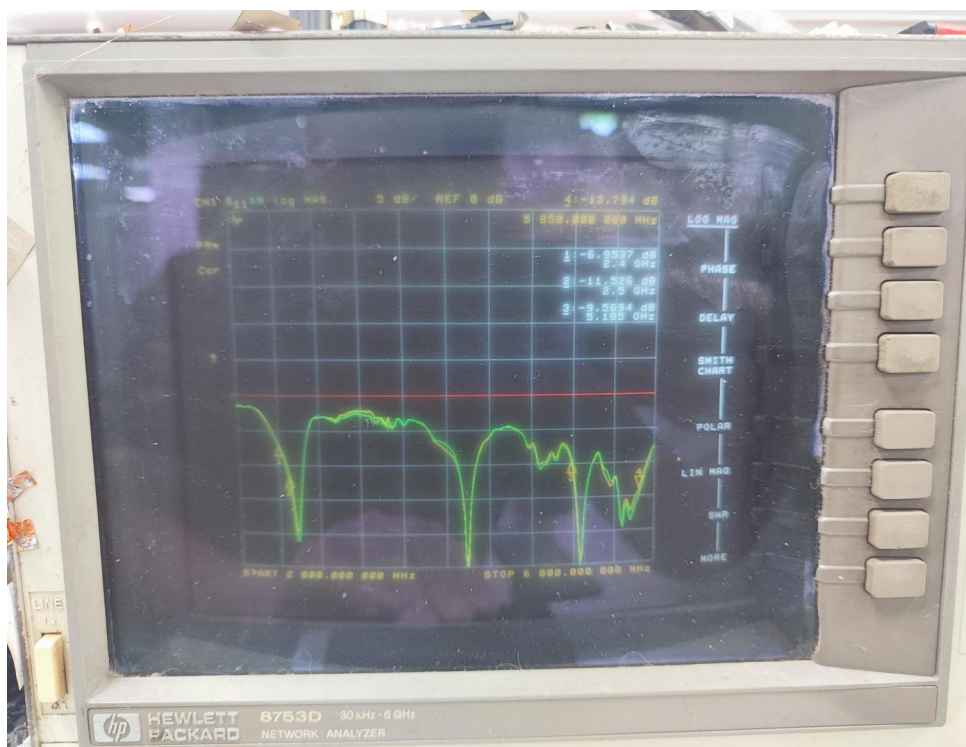
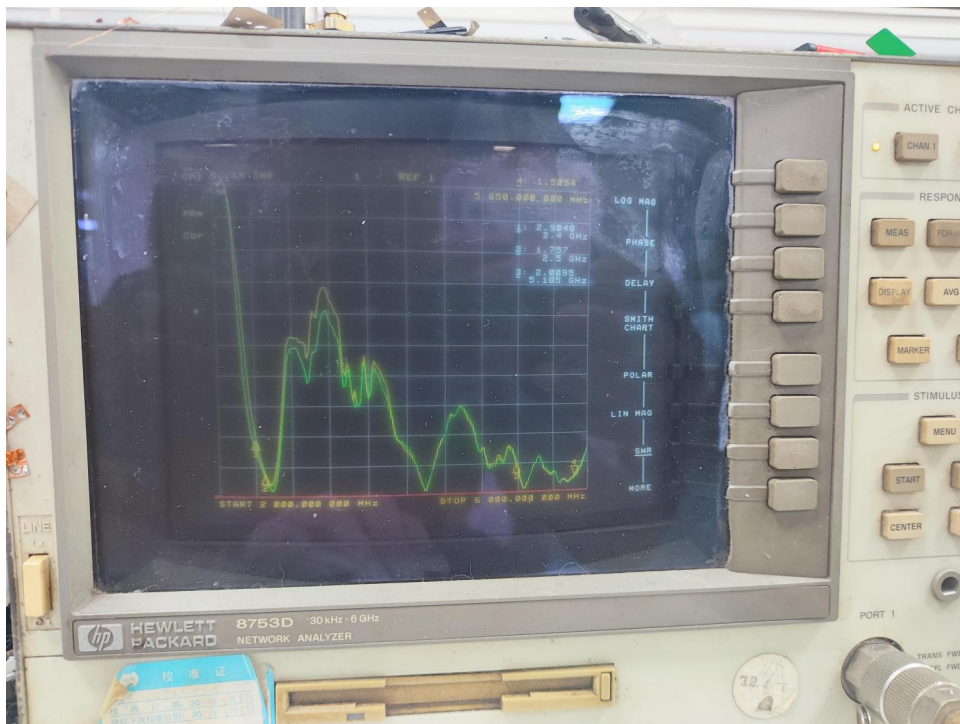


图4 3D 微波暗室测试坐标系 (back view)

Electrical Specification

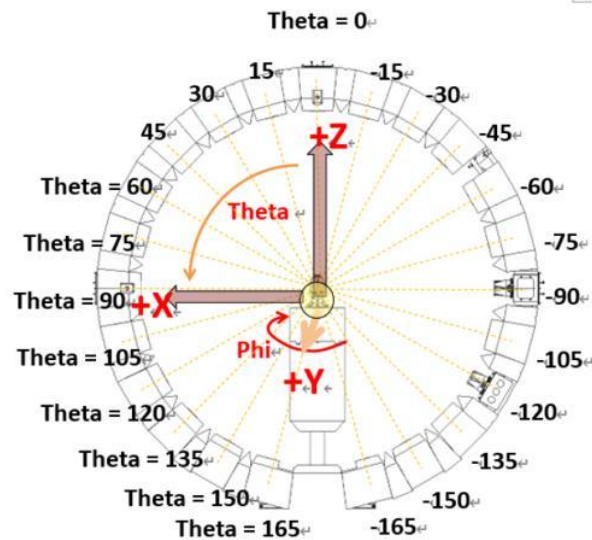
Passive S11 parameter

Measuring Method is a 50 Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the S11 parameter, Keeping this fixture away from metal at least 20cm.



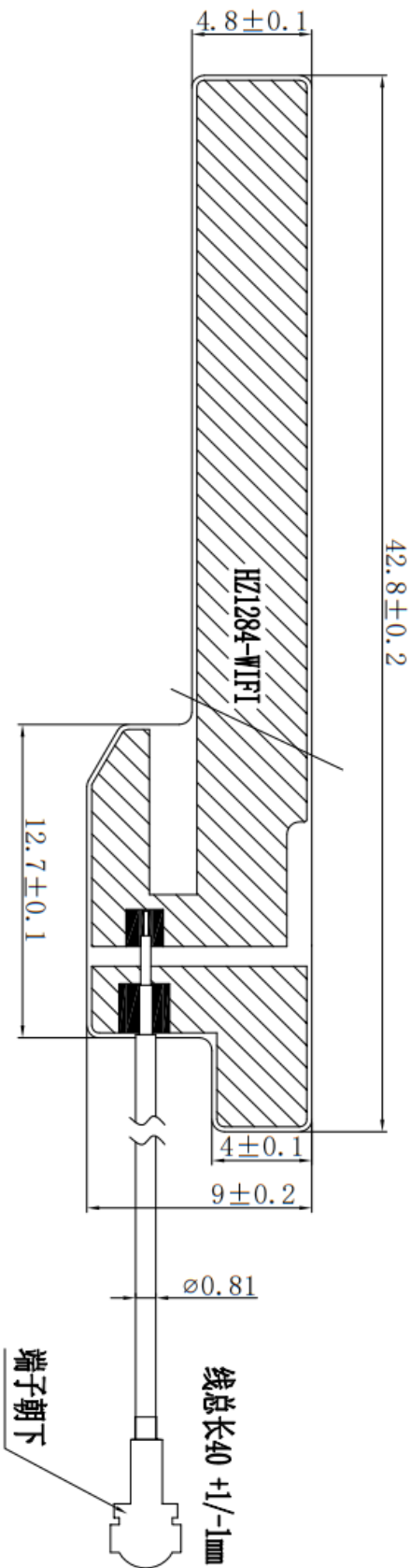
Gain & Efficiency

Sample status & coordinates



Freq	Effi	Effi	Gain
(MHz)	(%)	(dB)	(dBi)
2400	38.98	-4.09	-0.1
2410	42.43	-3.72	0.32
2420	43.22	-3.64	0.57
2430	43.72	-3.59	0.61
2440	44.86	-3.48	0.71
2450	47.85	-3.2	1.05
2460	47.79	-3.21	1.14
2470	46.34	-3.34	0.98
2480	46.81	-3.3	1.17
2490	48.53	-3.14	1.39
2500	46.06	-3.37	1.1

Antenna Engineer drawing



注:

1. 材料:PC, 基材:16/25, 表面颜色为亚光黑, 丝印黑色亮油.
2. 反面整体背胶类型:3M-9471LE, 总厚度<0.12MM.
3. 表面不可以有污染物、擦伤、黑点.
4. 镀膜厚度为2~6um, 不可有镀膜后易断裂及脱落, 导通不良, 电路部分断裂等不良现象.
5. 背胶需要够热冲击实验: 实验条件: -40~+85摄氏度 16个周期 (一周期为30分钟) .
6. 该图为属尺寸比例图, *为重点管控尺寸

注: 所有孔均为通孔, 红色线为打断线。

GENERAL TOLERANCE TABLE									
LINEAR(MM)				ANGULAR					
DIVISION	TOLERANCE		DIVISION	TOLERANCE					
0—10	±0.05		0—30度	±1°					
10-24	±0.07		30-90度	±2°					
24-50	±0.10								
50-80	±0.13								
OVER 80	±0.20								