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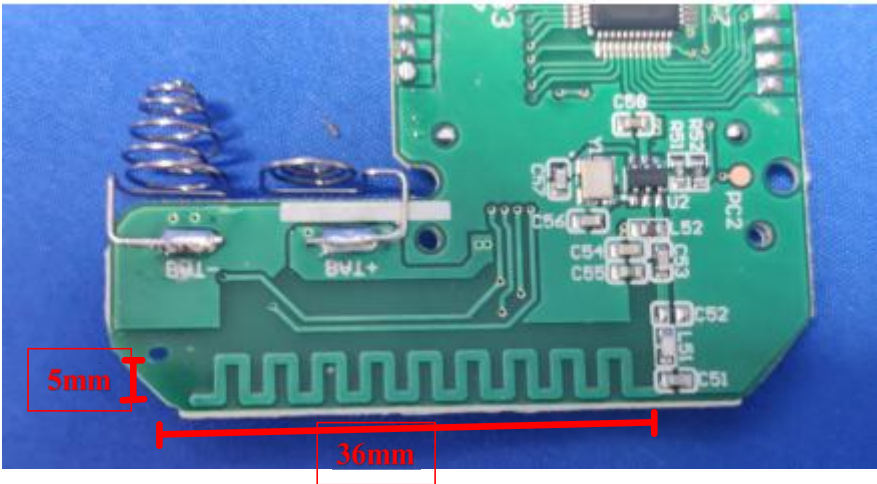
Manufacturer: Enping Guanquan Electronics Co., LTD

Add: Dongjiao Industrial Park, Shengtang Town, Enping City, Guangdong Province, China

公司名称: 恩平冠铨电子有限公司

公司地址: 广东省恩平市圣堂镇东郊工业园

一. 产品图纸或实物图片/Drawing or Product Image



二. Technical Parameter /技术参数

1. Antenna/天线		
No/序号	Part Name/项目	SPEC/规格
1	Frequency Range/ 频率范围	433MHz
2	Impendence/阻抗	50 ohm nominal
3	Gain/增益	>-1.22dBi
4	Polarization/极化	LINE
5	VSWR/驻波比	≤1.5
6	Efficiency/效率	≥18%
7	Antenna type	PCB Antenna
2. Environmental Characteristics/环境特性		
No/序号	Part Name/项目	SPEC/规格
1	Operation Humidity/ 工作湿度	5~95%不冷凝
2	Operating Temperature/ 工作温度	-20~+60℃
3	Store Temperatuer/ 储存温度	-30~+70℃

射频性能测量报告

RF Performance Test Report

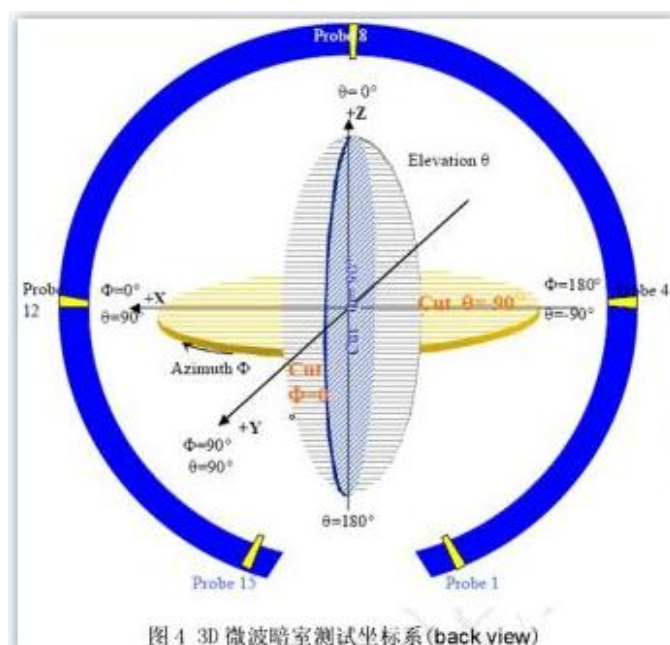
客户名称 Customer Name		项目名称 Project Name		料号 P/N	
频段 Band	433MHz	测试日期 Test Date		测试人 Inspector	

天线测试设备简介

Antenna Test Equipment Introduction

测试天线输入特性使用 Agilent E5071C and Agilent 5062A 矢量网络分析仪；辐射特性利用 Satimo 三维近场暗室进行测试，并分别使用 8960 E5515 和 Agilent E4438C 进行了分析。暗房的测试坐标如下：

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:

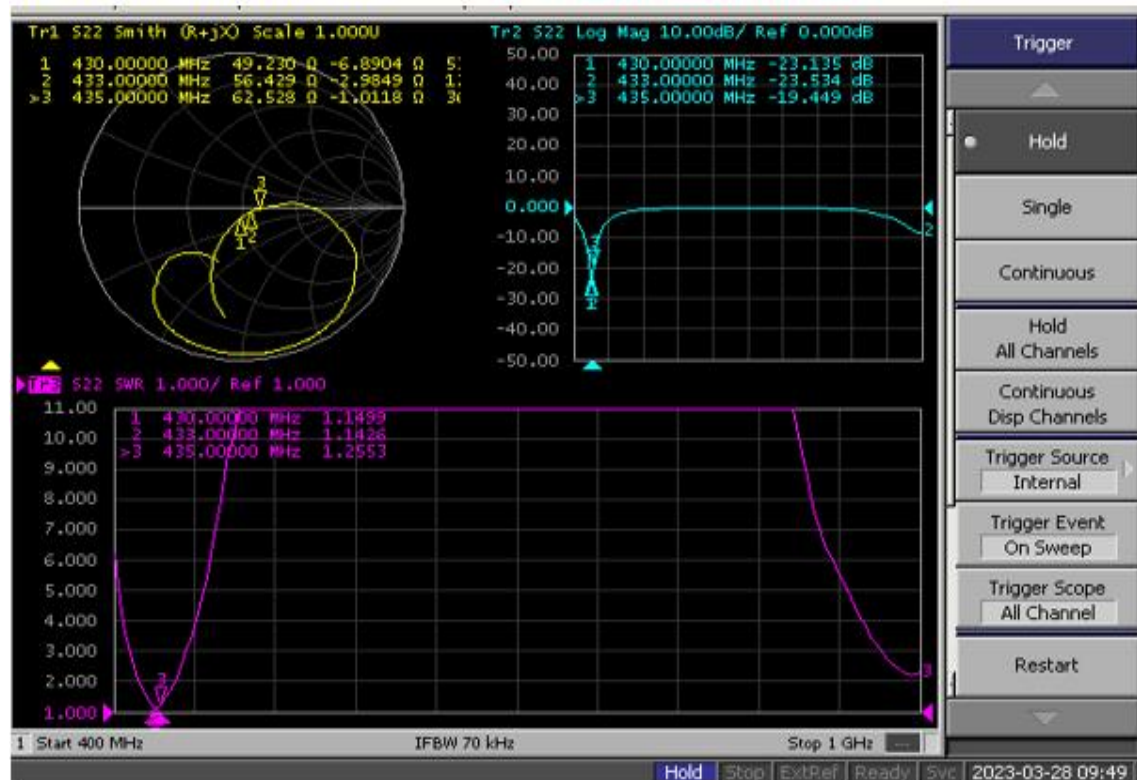


1. S11 参数测量/*S11 Parameter-VSWR*

使用一根 50 Ω 同轴电缆连接到天线，然后该电缆连接到网络分析仪测量 S11 参数，被测量产品远离金属至少 20 厘米。

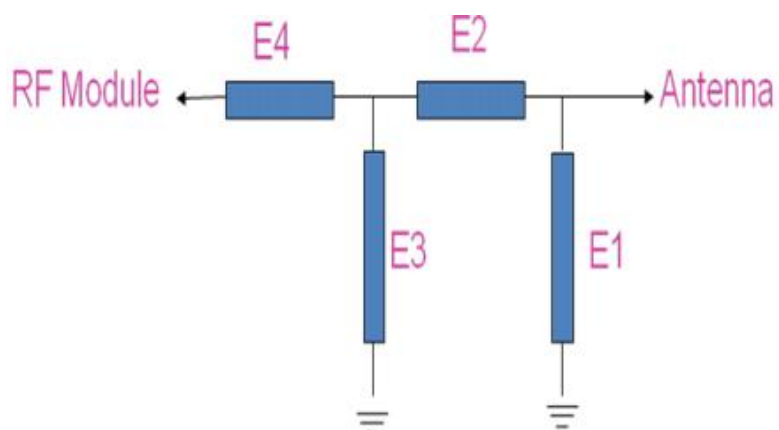
Measuring Method is a 50 Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the S11 parameter, Keeping this fixture away from metal at least 20cm.

S11 Parameter



Frequency(MHz)	430	433	435
VSWR	1.14	1.14	1.25

2. 天线匹配网络/Antenna Matching Network



Element	Value
E1	N/A
E2	N/A
E3	N/A
E4	N/A

PCB板端匹配电路未改动
PCB end matching circuit has not changed

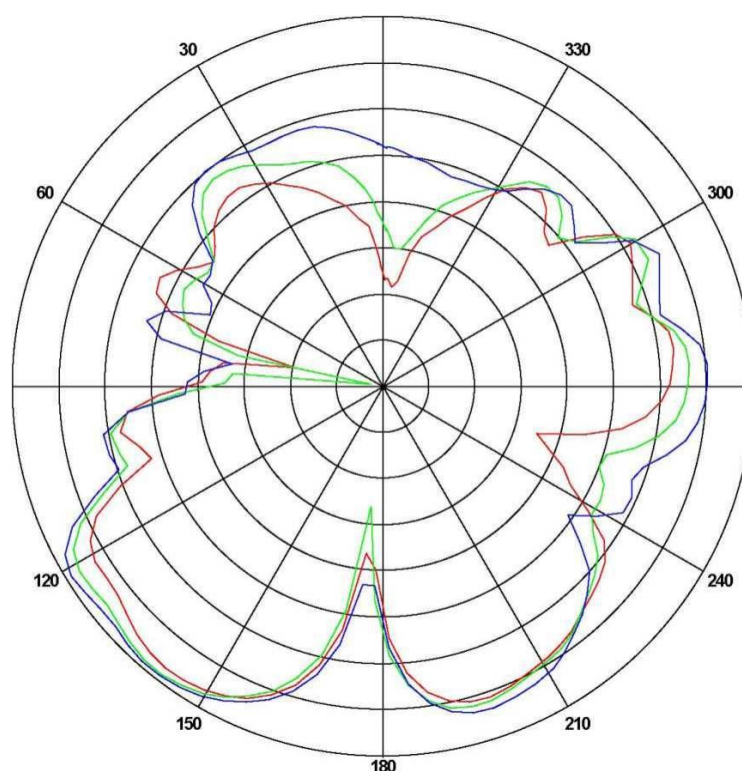
3. Gain & Efficiency-ANT

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
430	21.27	-1.33
433	21.66	-1.22
435	20.19	-1.53

Horizontal: 2400 MHz 2450 MHz 2500 MHz

Power (dBm)

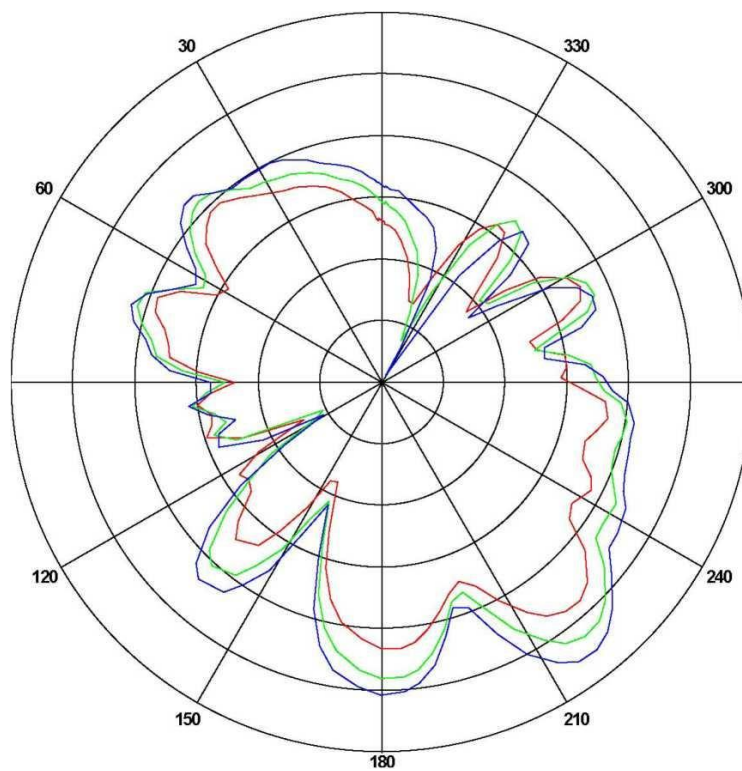
Max: 0 Min: -40 Scale: 5/div



Vertical: 2400 MHz 2450 MHz; 2500 MHz

Power (dBm)

Max: 0 Min: -30 Scale: 5/div



产品包装规范
PACKING CRITERION

样品尺寸测量报告
Sample Dimensions Test Report

客户名称 Customer Name		客户料号 Customer P/N		料号 Surbaner P/N	
测试日期 Test Date		样品数量 Sample Qty.	3	测试人 Inspector	
尺寸编号 Dimension No.	标准 Standard	样品 1 Sample 1	样品 2 Sample 2	样品 3 Sample 3	Pass/NG
①尺寸 1	48.00±1mm	48.01	48.00	47.98	Pass
②尺寸 2	8.50±0.5mm	8.52	8.50	8.48	Pass
③					
④					
⑤					
⑥					
⑦					
最终结论 Conclusion					PASS
测试人&日期 Inspector & Date	曾心荣 2023/03/28		批准&日期 Approval & Date		