



RTANT

东莞市安特通信有限公司

Rtant Communications Co., Ltd

天线调试&测试报告

Antenna Commissioning & Test Report

客户：欧飞信 -Customer:SHENZHEN OFEIXIN TECHNOLOGY LIMITED

项目：/- Project: /

天线工程师：黄舒鹏 -Antenna Engineer: Huang Shupeng

日期：2025-06-23-Date: 2025-06-23

版本：V0.0-Version: V0.0

项目负责人：姜磊15899911229-Project Manager: Jiang Lei (15899911229)



目录

CONTENT



RTANT

一. 项目调试简介-Project Debugging Overview

二. 实验室测试环境及设备 -Lab Testing Environment & Equipment

三. 天线匹配电路 -Antenna Matching Circuit

四. 暗室坐标标示 -Anechoic Chamber Coordinate Markings

五. 天线摆放位置 -Antenna Placement

六. 无源数据 -Passive Data

七. 工程图与实物照片 - Engineering Drawing and Photograph

八. 联系方式 -Contact Information



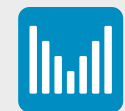
项目调试简介

Project
Debugging
Overview

整机类型 Device Type				
天线种类 及频段信息 Antenna Type & Frequency Band	天线种类 Antenna Type	频段信息 Frequency Band	天线形式 Antenna Form	匹配改动 Matching Modifications
	WIFI	2400-2500MHz 5150-5850MHz	FPC	否 NO
	WIFI 天线 φ1.13 黑色 L=150MM 四代端子 WiFi Antenna: φ1.13 Black, L=150mm, 4th-gen Terminal			
Antenna Material 天线材质	FPC			



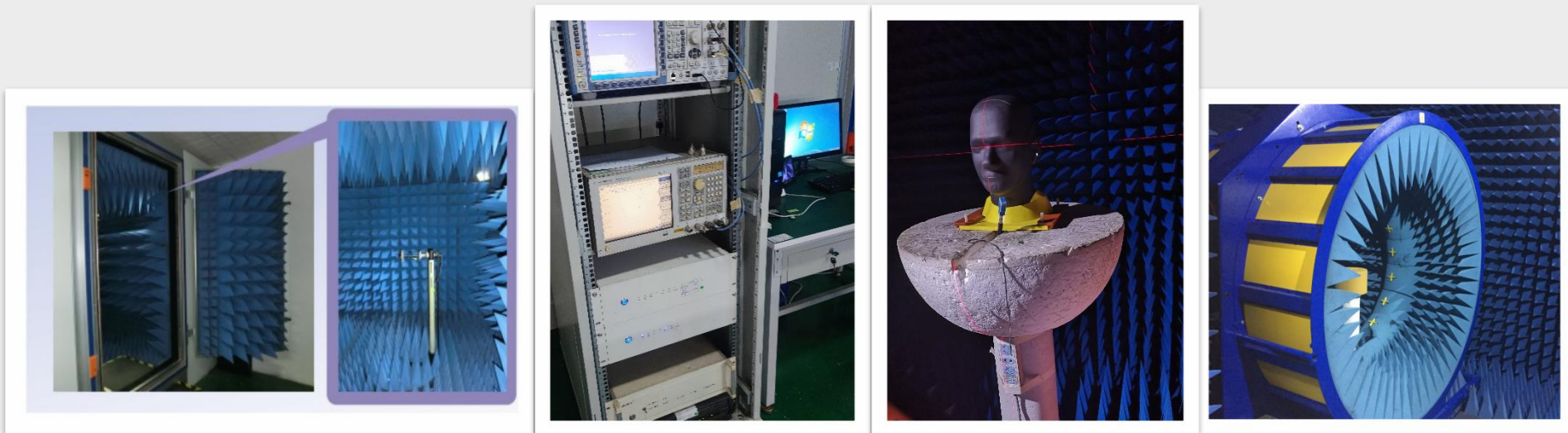
RTANT



RTANT

实验室测试环境及设备

Lab
Testing
Environment
&
Equipment



测试项目 -Test Item	测试设备 -Test Equipment
S11、S12 、 VSWR 、 LOSS	网络分析仪E5071B、 E8753D Network Analyzer (E5071B, E8753D)
Efficiency、 Gain、 3D Radiation Pattern	Satimo SG16暗室、 台湾十大7*4*3暗室、 E5071B、 二代人头 Satimo SG16 Chamber, Taiwan Top 10 7×4×3 Chamber, E5071B, 2nd-gen Phantom Head
TRP、 TIS	Satimo SG16暗室、 台湾十大暗室、 CMW500、 二代人头 Satimo SG16 Chamber, Taiwan Top 10 Chamber, CMW500, 2nd-gen Phantom Head

备注：本项目的调试&测试用的设备标示为蓝色

Note: Equipment marked in blue was used for debugging & testing in this project.

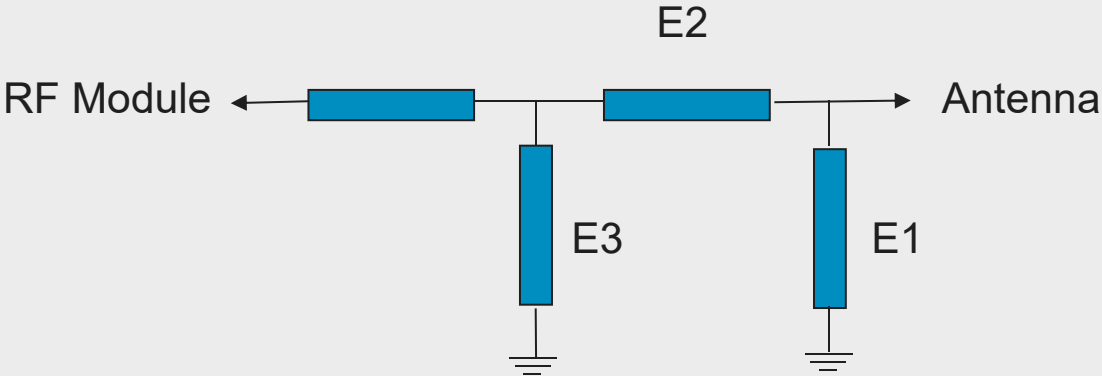


天线匹配电路

Antenna
Matching
Circuit



RTANT



	Element	Value
	E1	没有更改 -No Change
	E2	没有更改 -No Change
	E3	没有更改 -No Change



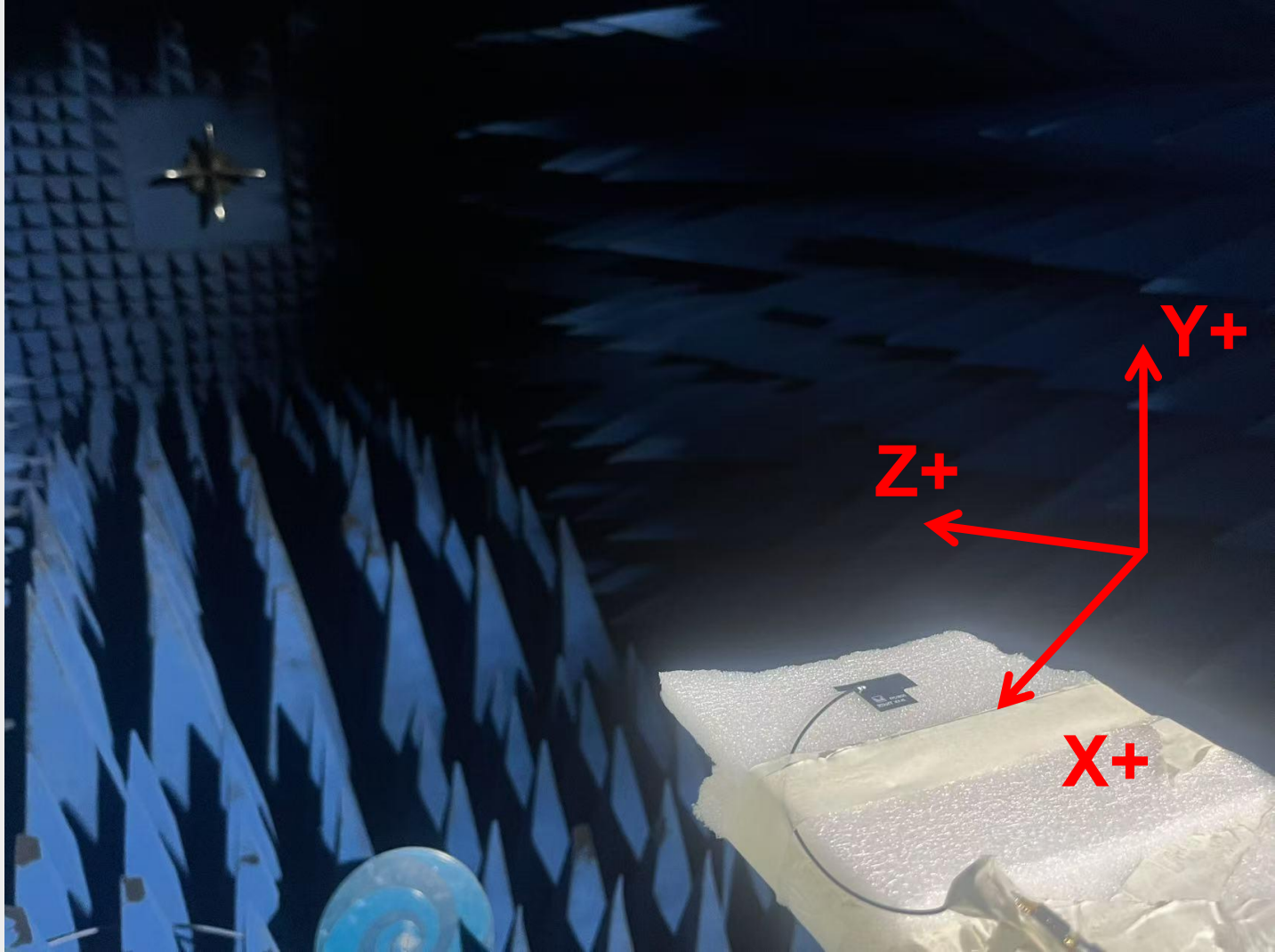
暗室坐标标示

Anechoic Chamber
Coordinate
Markings

四. 暗室坐标标示 -Anechoic Chamber Coordinate Markings



RTANT





无源数据

Passive Data

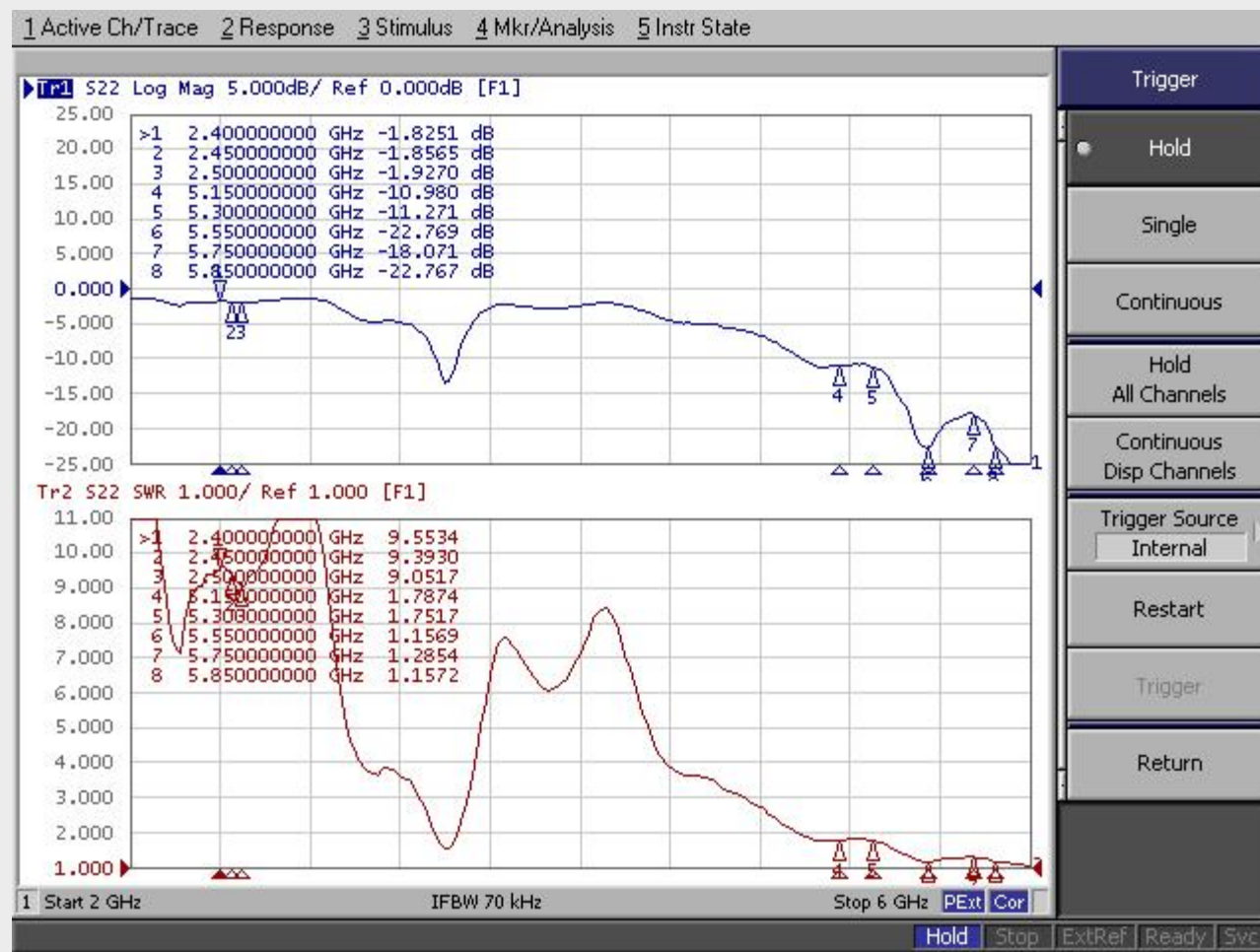
六. 无源数据 -Passive Data

R-LOSS-VSWR
WIFI 2.4G/5.8G

天线裸测 -Bare Antenna Testing



RTANT





Effi / Gain



天线裸测-Bare Antenna Testing

Frequency	2.40GHz	2.45GHz	2.50GHz	5.15GHz	5.5GHz	5.85GHz
Efficiency (%)	7.44	7.91	7.39	44.25	45.11	47.97
Gain (dBi)	-5.22	-4.37	-4.67	1.96	1.55	1.7



无源数据

Passive Data

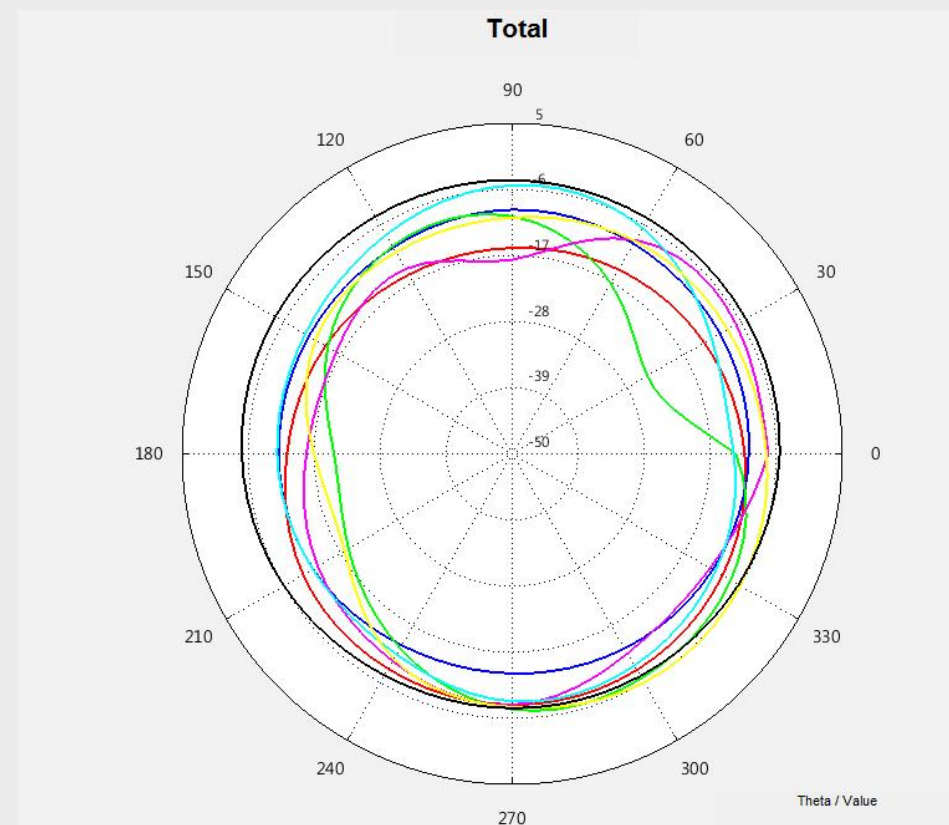
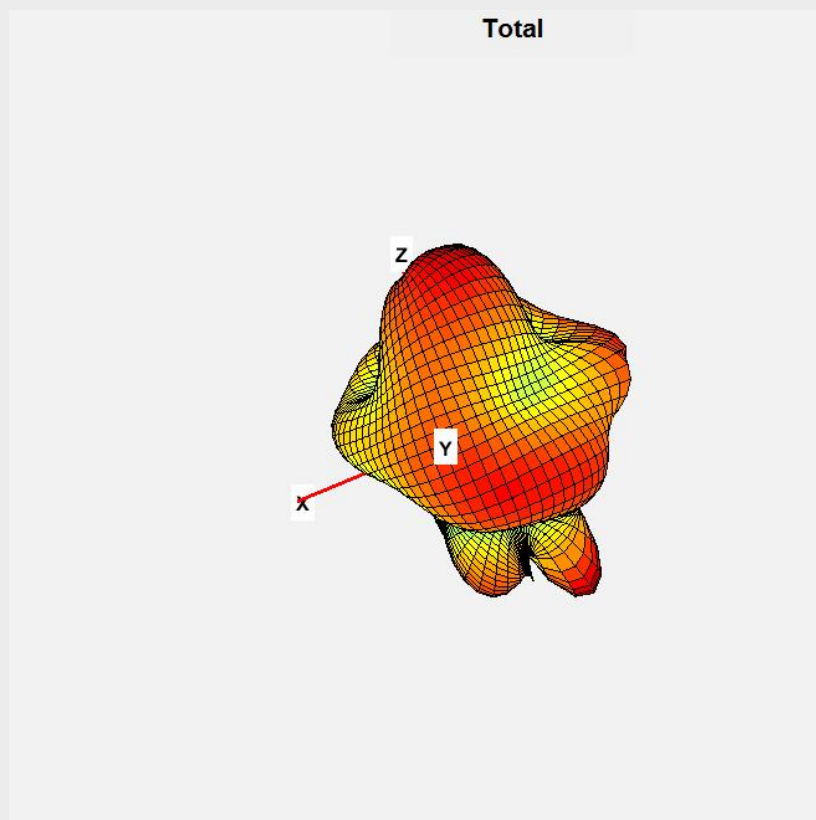
方向图-Radiation Pattern



RTANT

WIFI 2450MHz 3D

2450MHz 2D





无源数据

Passive Data

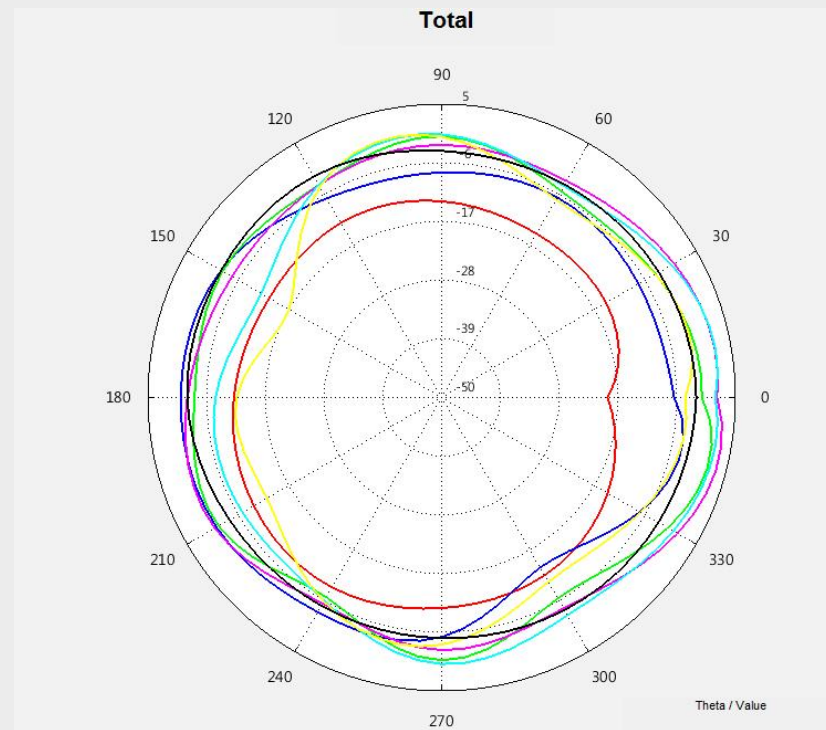
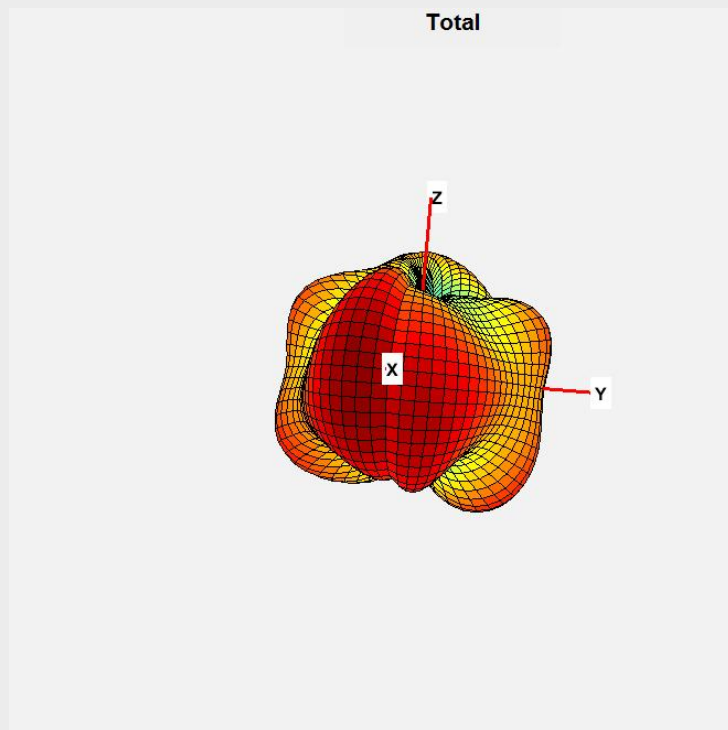
方向图--Radiation Pattern



RTANT

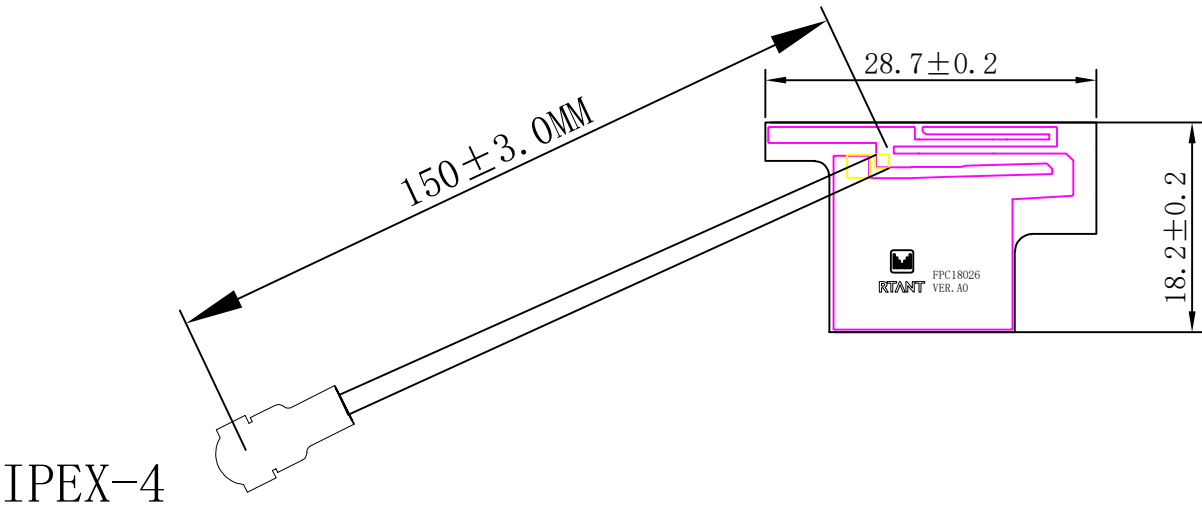
WiFi 5500MHz 3D

5500MHz 2D



工程图 (Engineering Drawing)

SIGN	DATE	DESCRIPTION	APPROVER
A0	25.09.25	New drawing	姜文祥 (JWX)

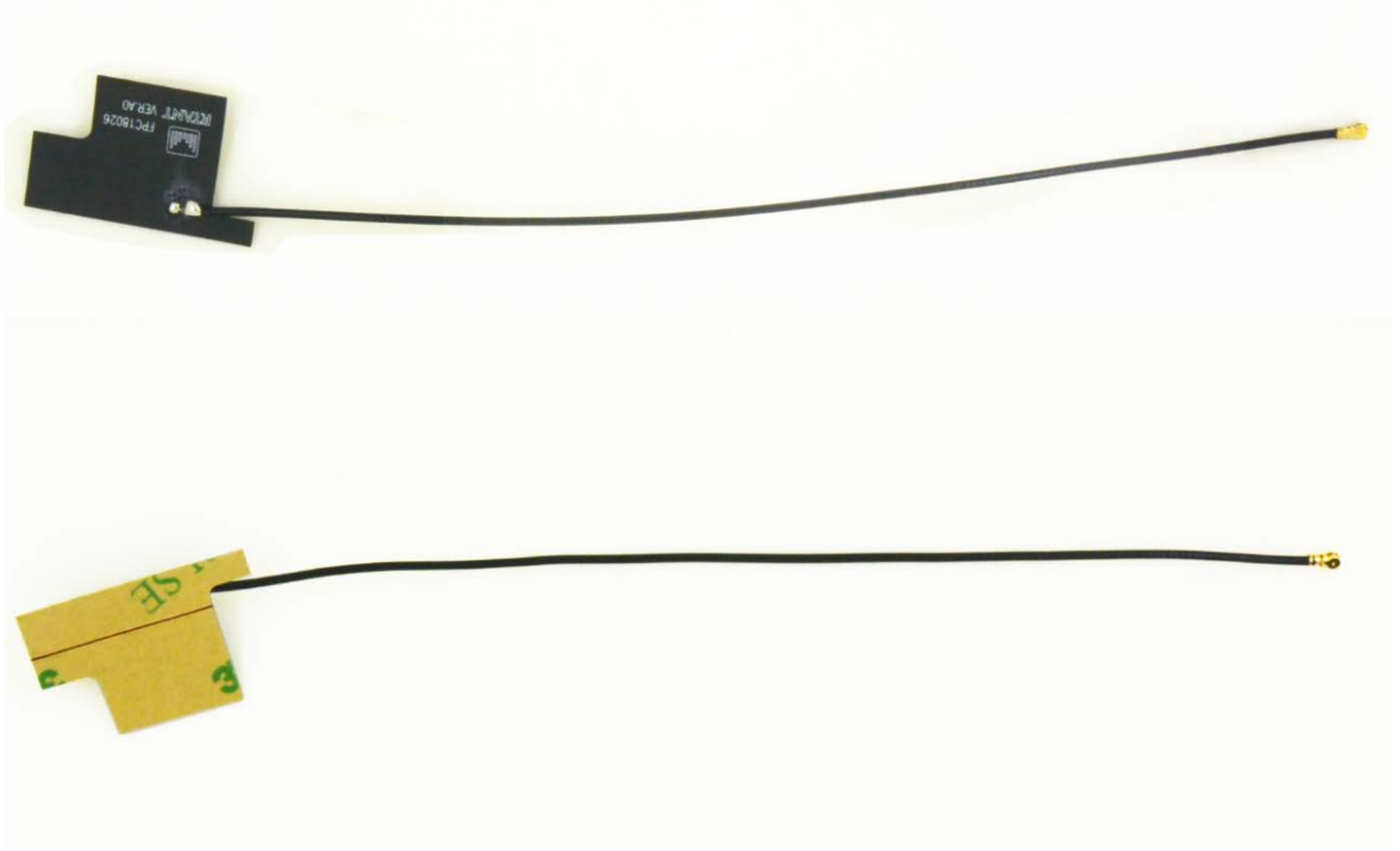


NOTE:

- The dimensions marked with "*" are key controlled dimensions;
- Item:
Frequency Rang:
2. 4~2. 5GHz
5. 15~5. 85GHz
Impedance:50 Ω
VSWR:2. 0MAX (Enclosure and IPEX)
- Operating Ambient
Temperature:-10℃~+85℃;
- Environmental Requirement:
RoHS 2. 0;
- IPEX Directional Control:
100mm± 90degrees;
200mm± 135degrees;
>200mm, no control;

3	---	IPEX CONN#	CU	4th 1.13 Gold Plating	1
2	W10-080010-A	Ø1.13mm CABLE	Tinned Copper	50ohm Black ROHS	1
1	---	FPC	Electrolytic Copper	Word Template "FPC18026 VER. A0"	
No.	Part Number	Name	Material	Describe	Q' ty

TITLE:		FPC天线 (FPC Antenna)		 RTANT COMMUNICATIONS CO.,LTD 东莞市安特通信有限公司 Http://www.rtant.com E-mail:dragon@rtant.com Tel :0769-85833836 Fax:0769-82582573			
P/N:		---					
CUSTOMER:		欧飞信 (Qogrisys)					
DRAW NO.:		K220-10060-A					
DIMENSIONS TOLERANCES UNLESS OTHERWISE NOTED							
一般公差 TOLERANCE		.XXX ±0.1	XX. ±5	SHEET: 1/1	SCALE: NONE	APPROVED	
		.XX ±0.5				CHECKED	
		.X ±1.0		UNIT: mm	REV.X0	DRAWED	姜文祥 (JWX)
		X. ±3.0					



联系方式-Contact information



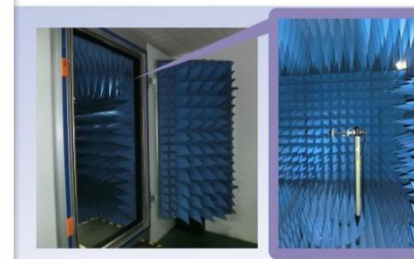
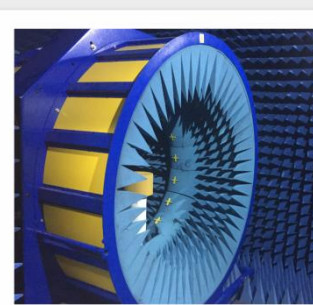
成立
11年

专注
无线

设计
研发



制造



Website: <http://www.rtant.com>

联系方式 - 姜磊

Contact person: Jianglei

Mob: 15899911229 Email: jl@rtant.com

广东省东莞市厚街镇厚街镇莞太路与富民大道交叉口西北100米厚街骏业大厦6楼

ADD: 6th Floor, Junye Building, 100m Northwest of the Intersection of Guantai Road & Fumin Avenue,
Houjie Town, Dongguan City, Guangdong Province, China

东莞 (厚街) - 上海 (浦东新区)
Dongguan (Houjie) - Shanghai (Pudong New Area)



RTANT

Thank you for your trust in Rtant