



东莞市一佳电子通讯科技有限公司

Dongguan YiJia Electronics Communication Technology Co.,Ltd.

规格承认书

SPECIFICATION FOR APPROVAL

日期 Date	2023/06/12
编号 File No	23061201
版本 Revision	1.0

客户
CUSTOMER: Telepower Communication Co., Ltd.

客户料号
CUSTOMER NO: C8

品名
PART NAME: WIFI Antenna L=170mm MHF

供方料号
SUPPLIER NO: YJW01.076.222.301A

送样日期Date: 送样数量Q “TY:

客户确认CUSTOMER APPROVED BY		
APPROVAL	CHIEF	SUPERVISOR

供方确认 SUPPLIER SIGNATURE		
APPROVAL	CHECK	DESIGN
 ChenGuoqiang	XieLi	ChenXingyi

YJ-RD-F04-A

add: 东莞市长安镇沙头社区木鱼路59号元富工业区 Tel:0769-82586086 Fax:0769-82586086

RoHS
Compatible

CUSTOMER
PART NO

REV.

DESCRIPTION

DATE

△

首次发行

2022-07-23

△

修改FPC,线材颜色及线长

2022-09-26

△

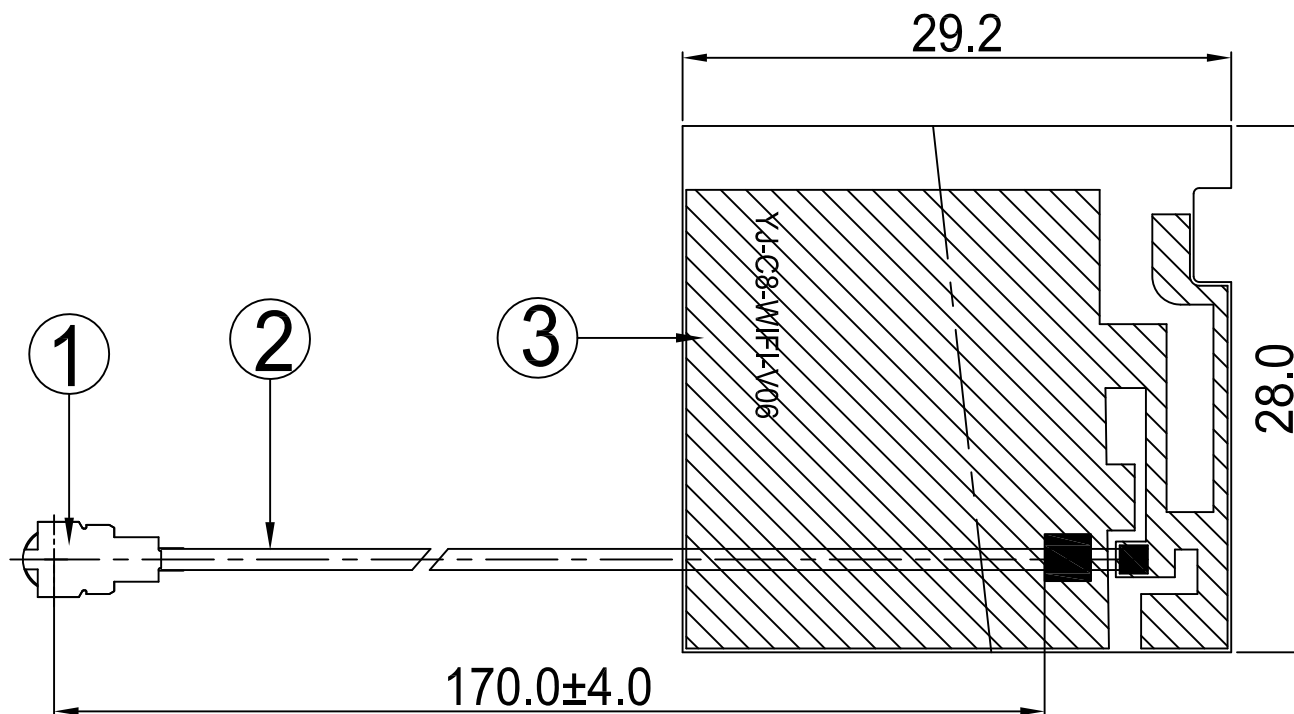
修改FPC及线长

2022-12-16

△

修改线路

2023-03-07



东莞市一佳电子通讯科技有限公司

Dongguan Yijia Electronics Communication Technology Co., Ltd. Tel: 0769-82586086 Fax: 0769-82586086

PART NAME: WIFI Antenna L=170mm MHF

PART NO.: YJW01.076.222.301A

DATE: 2023-03-07

APPROVED BY

CHECKED BY

DESIGNED BY

UNIT: mm

Tolerance

覃健宇

周棋

廖光喜

SCALE: 1/1

X.X ±0.50

REVISION: D

X.XX ±0.15

X° ±3°

3	FPC	29.2*28.0mm	FPC	FPC11XXA.P01	1
2	Coaxial Cable	O.D.1.13 Black	O.D.1.13	COA100XXA.P01	1
1	Mini Connector	Au Plated 1代	Cu	TER100XXA.P01	1
NO	PART NAME	DESCRIPTION	Material	Part Number	Q.TY



天线规格

Antenna Specification

Electrical Properties

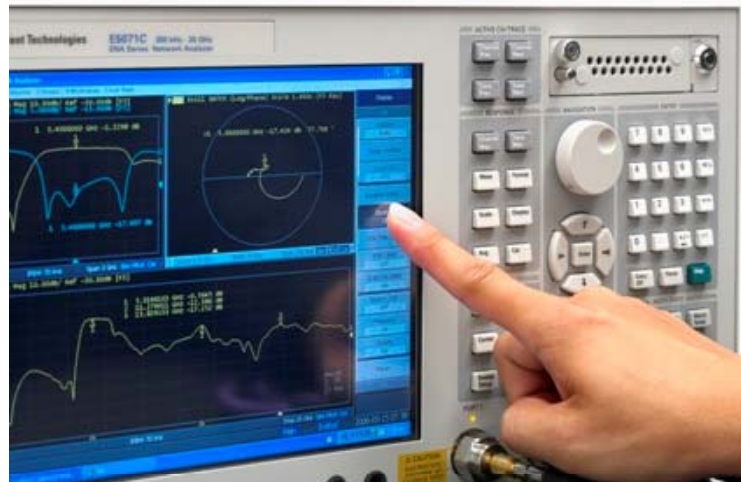
Frequency	2.4-2.5GHz
Impedance	50 Ohm Nominal
V.S.W.R	2.0 Max
Gain	3.7 dBi
Radiation	Omni-directional
Polarization	Linear

Physical Properties

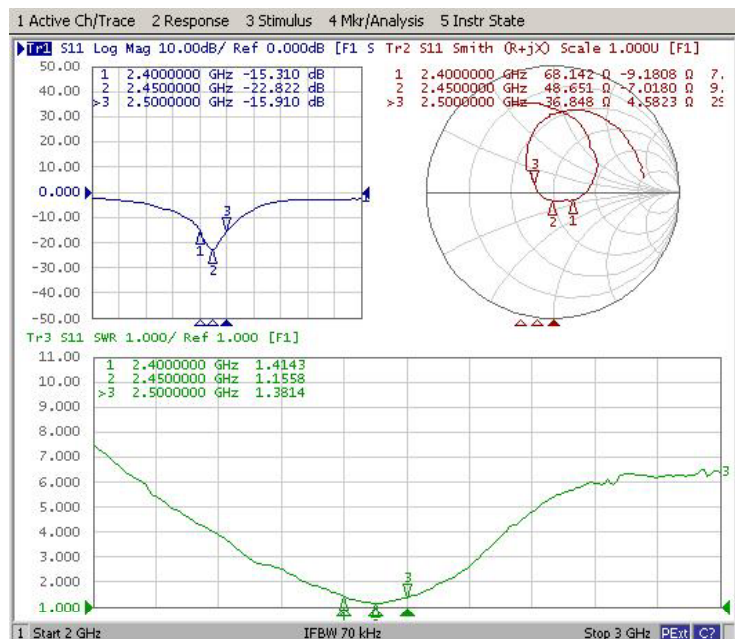
Connector	IPEX
Cable Type	O.D.1.13mm
Cable Length	170mm
Cable Color	Black
Operating Temp.	-40 ~ +85 °C
Storage Temp / Humidity	25±5°C / <70%



Agilent E5071B



S Parameter Test // WiFi Antenna



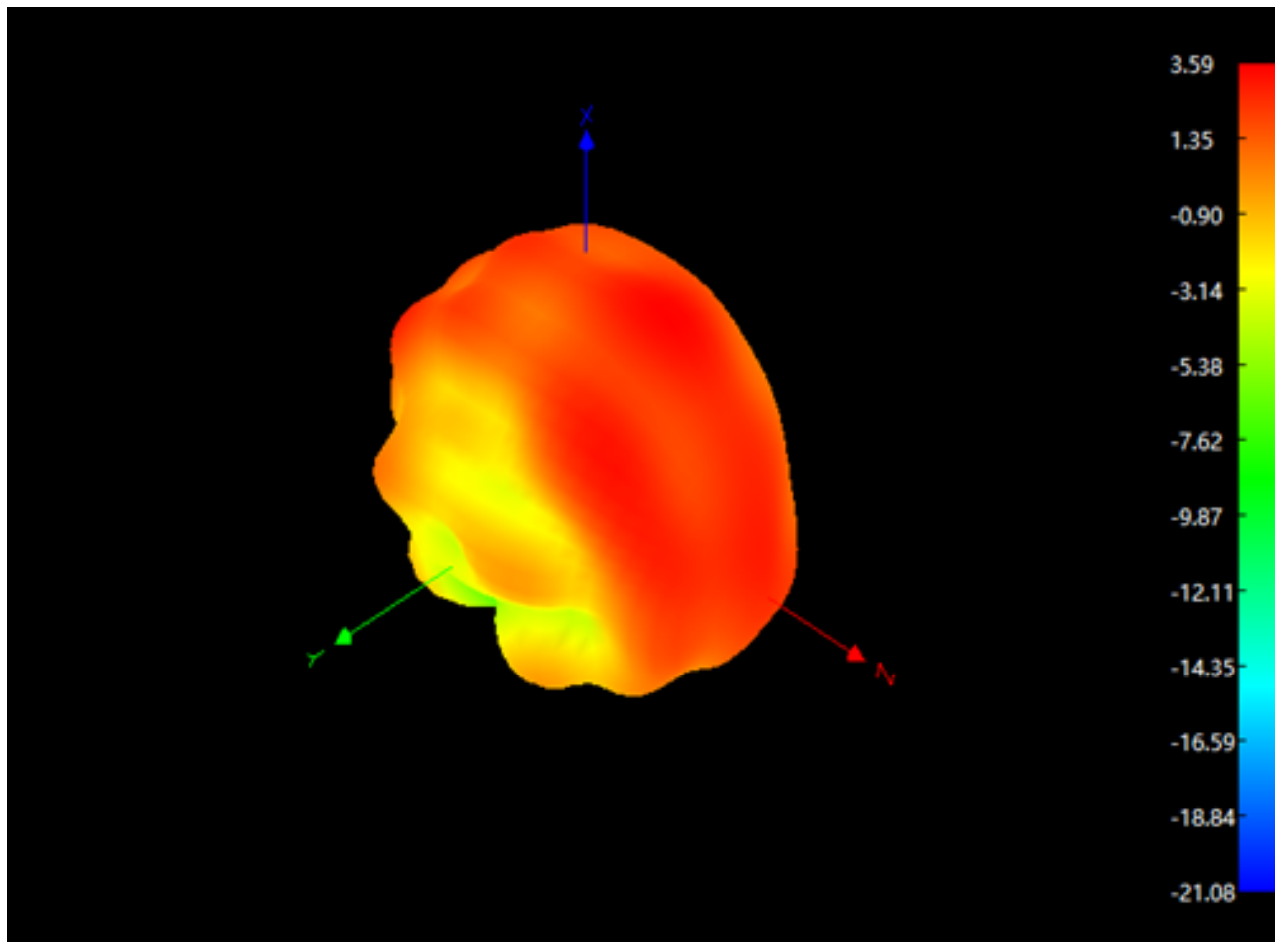


Passive Test For WiFi Antenna(2.4G)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	58.2	-2.4	3.6
2410	59.2	-2.3	3.7
2420	56.9	-2.5	3.6
2430	57.2	-2.4	3.5
2440	59.2	-2.3	3.6
2450	59.4	-2.3	3.5
2460	56.4	-2.5	3.2
2470	58.3	-2.3	3.6
2480	57.3	-2.4	3.4
2490	56.9	-2.5	3.6
2500	54.1	-2.7	3.4

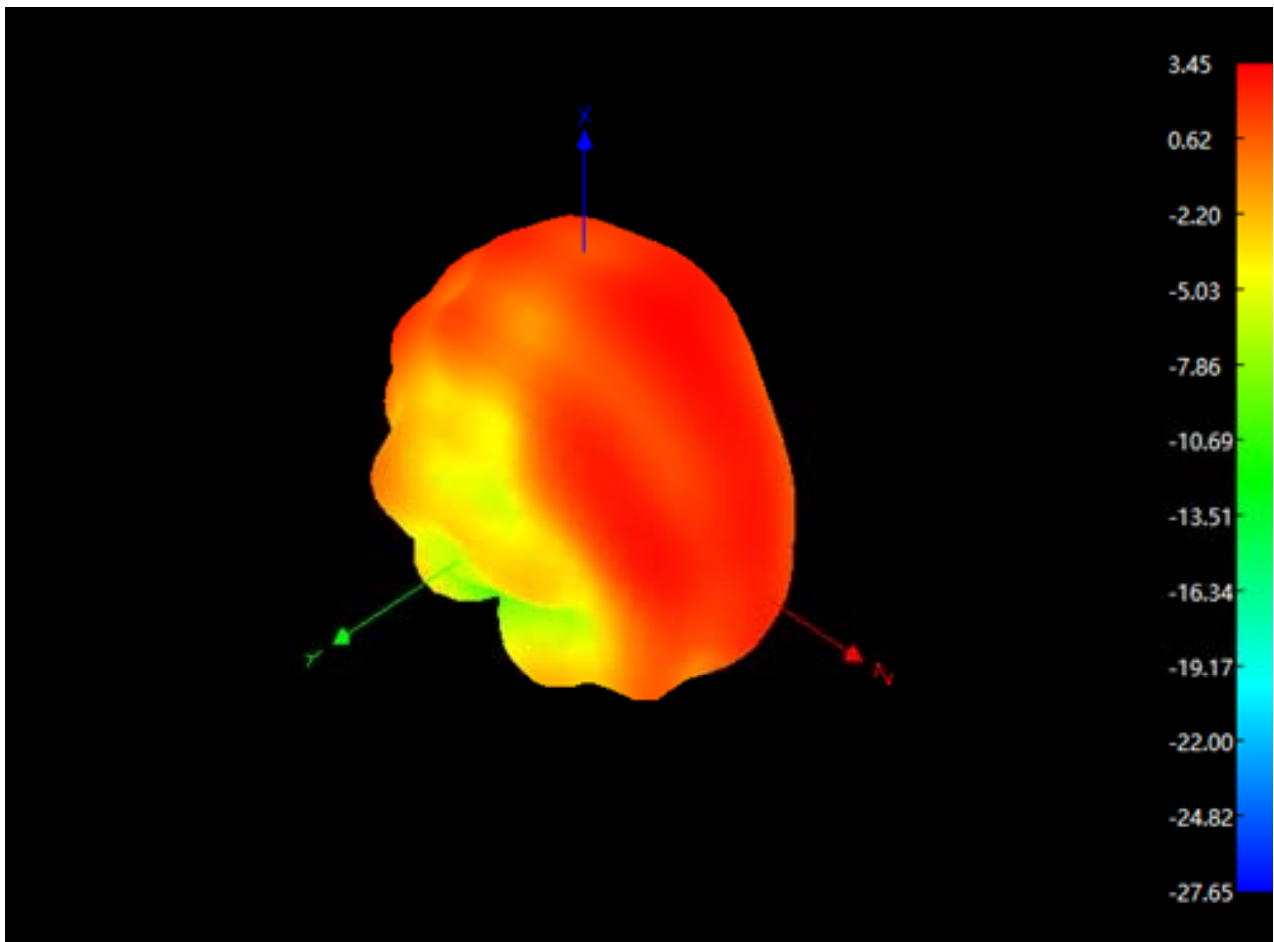


Radiation Pattern For WiFi Antenna (2400MHz)



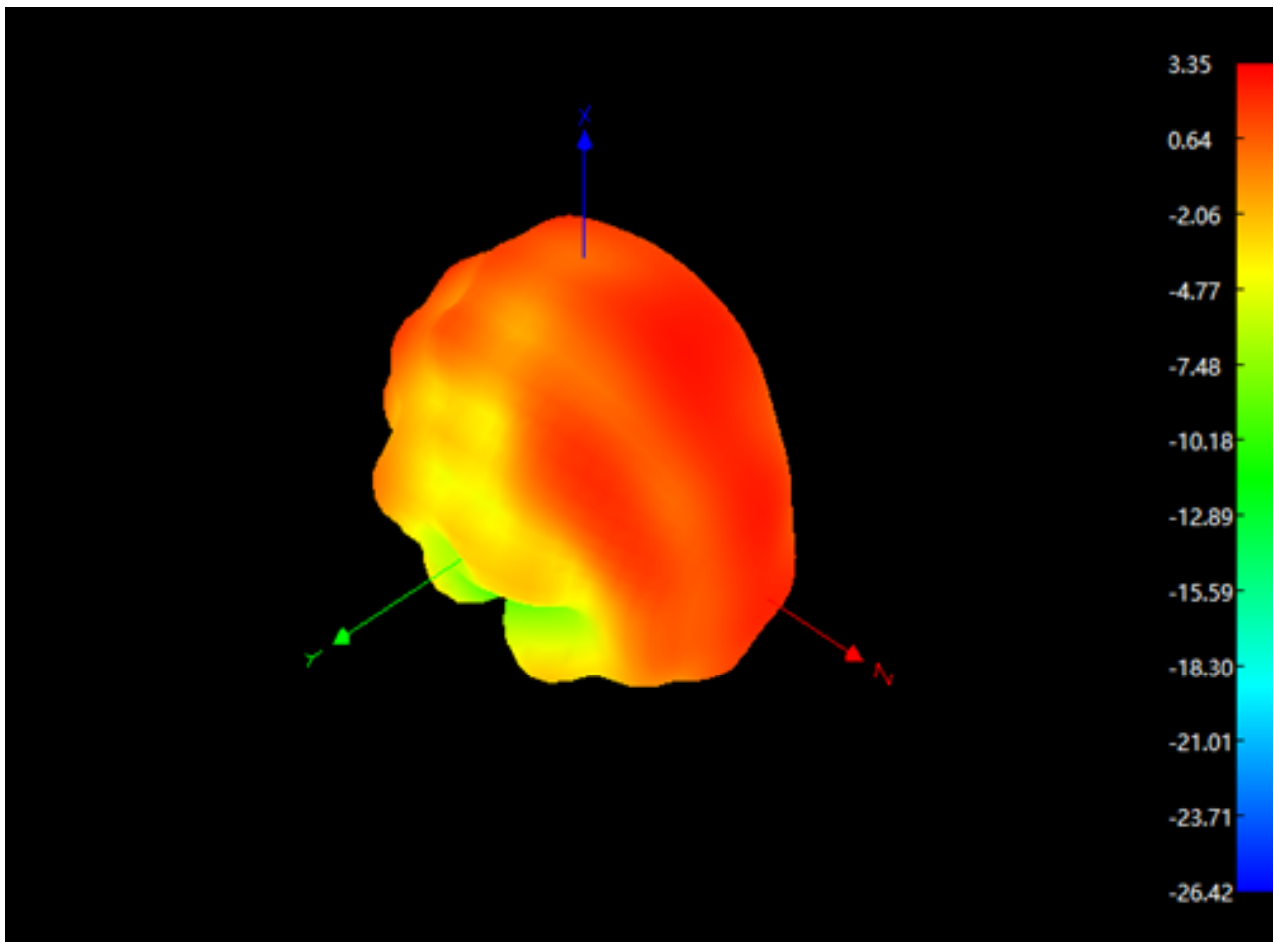


Radiation Pattern For WiFi Antenna (2450MHz)





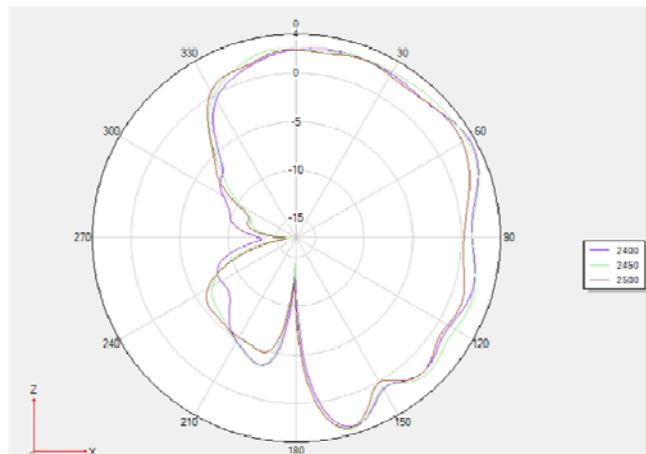
Radiation Pattern For WiFi Antenna (2500MHz)



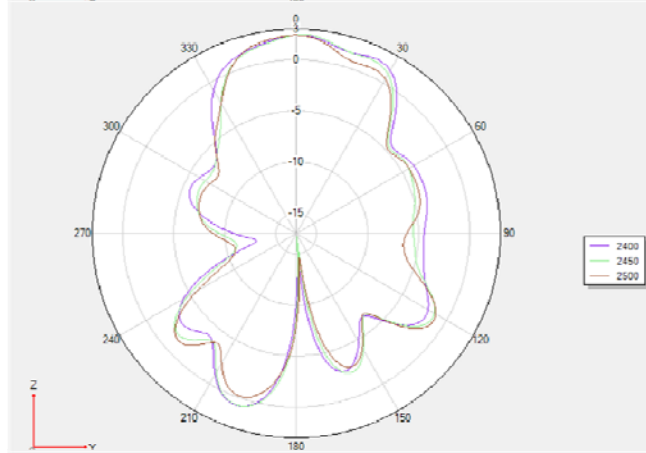


Radiation Pattern For WiFi Antenna

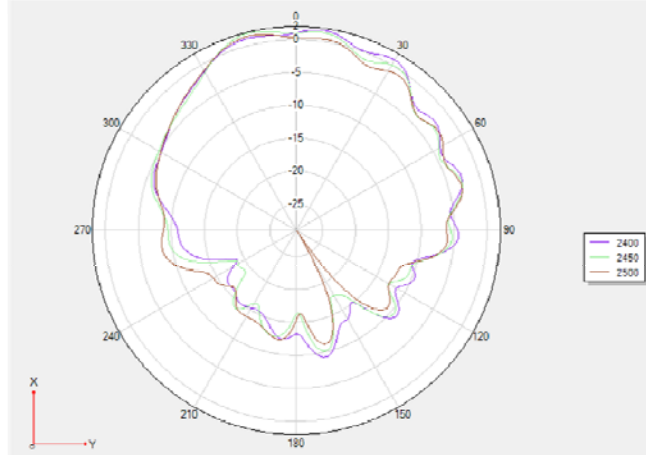
Phi 0°



Phi 90°



Theta 90°





Active Test For WIFI							
Band	Channel	Data Rate	TRP	EIRP	Data Rate	TIS	EIS
WIFI 802.11b	1	11Mbps	13.7	18.9	11Mbps	-77.7	-82.9
	6		14.3	19.7		-79.5	-84.8
	11		14.2	19.0		-78.1	-82.8
WIFI 802.11g	1	6Mbps	12.2	17.5	54Mbps	-65.7	-71.2
	6		12.7	18.0		-63.0	-67.3
	11		12.5	17.3		-65.5	-70.6
WIFI 802.11n	1	MCS0	12.1	17.5	MCS7	-62.3	-67.6
	6		12.8	18.4		-62.6	-67.7
	11		12.5	17.3		-61.8	-66.8



Device





WiFi Antenna

