

Antenna Datasheet

Manufacturer: Dongguan YiJia Electronics Communication Technology Co.,Ltd.

Address: No. Muyu Road, Shatou District, Chang'an Town, Dongguan City, Guangdong, China

Antenna Name: WIFI Antenna L=185mm MHF

Antenna Model: YJW01.010.051.301A

Antenna Type: Integrated FPC antenna

Antenna Gain: 4.5dBi Max

天线规格

Antenna Specification

Electrical Properties

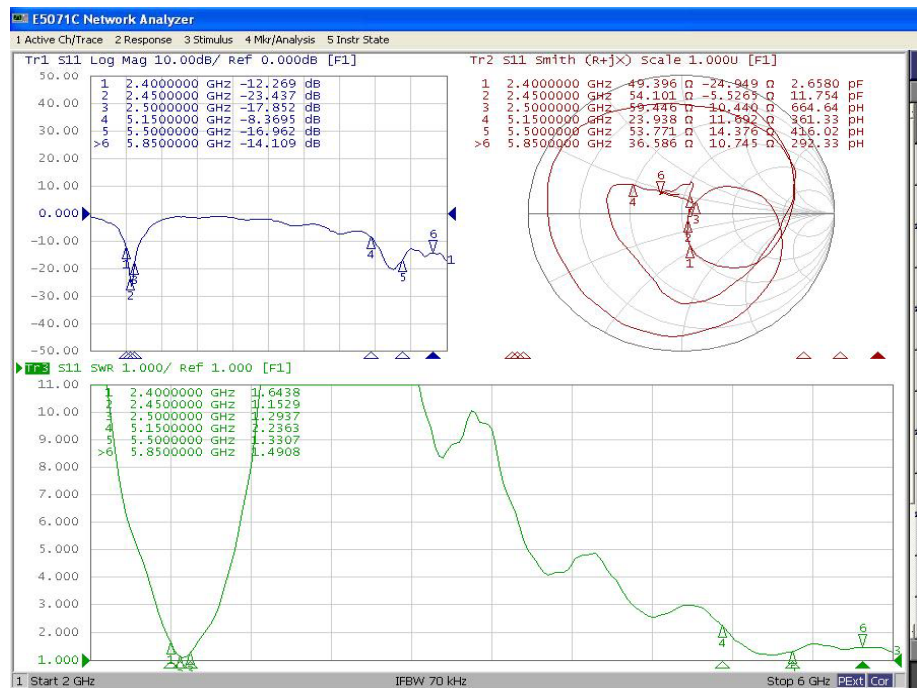
Frequency	2.4-2.5GHz 5.15-5.85GHz
Impedance	50 Ohm Nominal
V.S.W.R	2.0 Max@2.4-2.5GHz 2.5 Max@5.15-5.85GHz
Gain	4.5 dBi@2.4-2.5GHz 4.8 dBi@5.15-5.85GHz
Radiation	Omni-directional
Polarization	Linear

Physical Properties

Connector	IPEX
Cable Type	O.D.1.13mm
Cable Length	185mm
Cable Color	Black
Operating Temp.	-40 ~ +85 °C
Storage Temp / Humidity	25±5°C / <70%

Antenna Performance Test

**Agilent
E5071B
S11
Parameter
Test //
WiFi
Antenna**



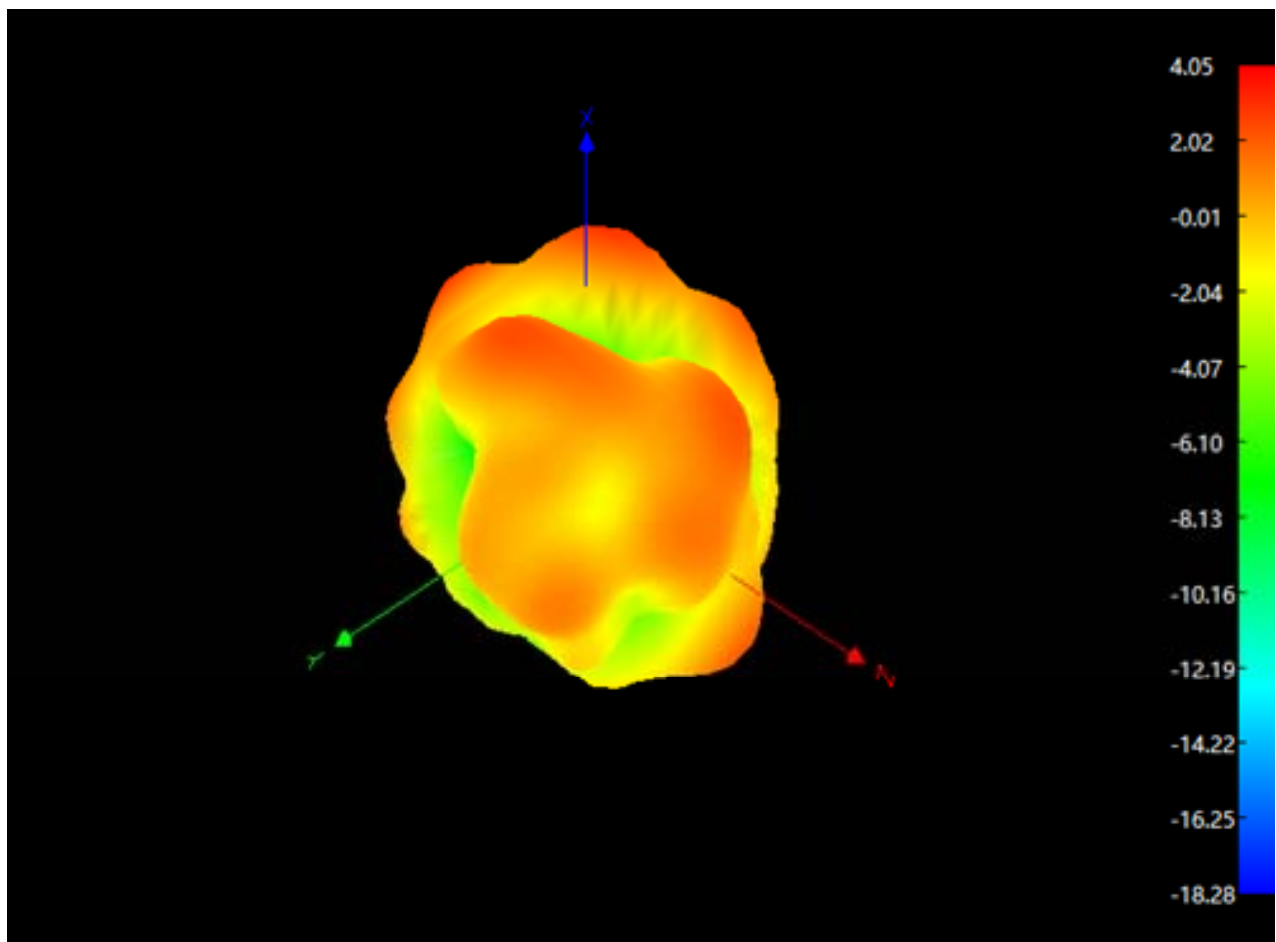
Passive Test For WiFi Antenna(2.4G)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	57.2	-2.4	4.1
2410	57.3	-2.4	4.0
2420	55.6	-2.6	3.8
2430	54.8	-2.6	4.0
2440	55.1	-2.6	3.9
2450	57.2	-2.4	4.3
2460	54.0	-2.7	4.0
2470	55.9	-2.5	4.5
2480	54.6	-2.6	4.2
2490	55.6	-2.6	4.4
2500	52.4	-2.8	3.9

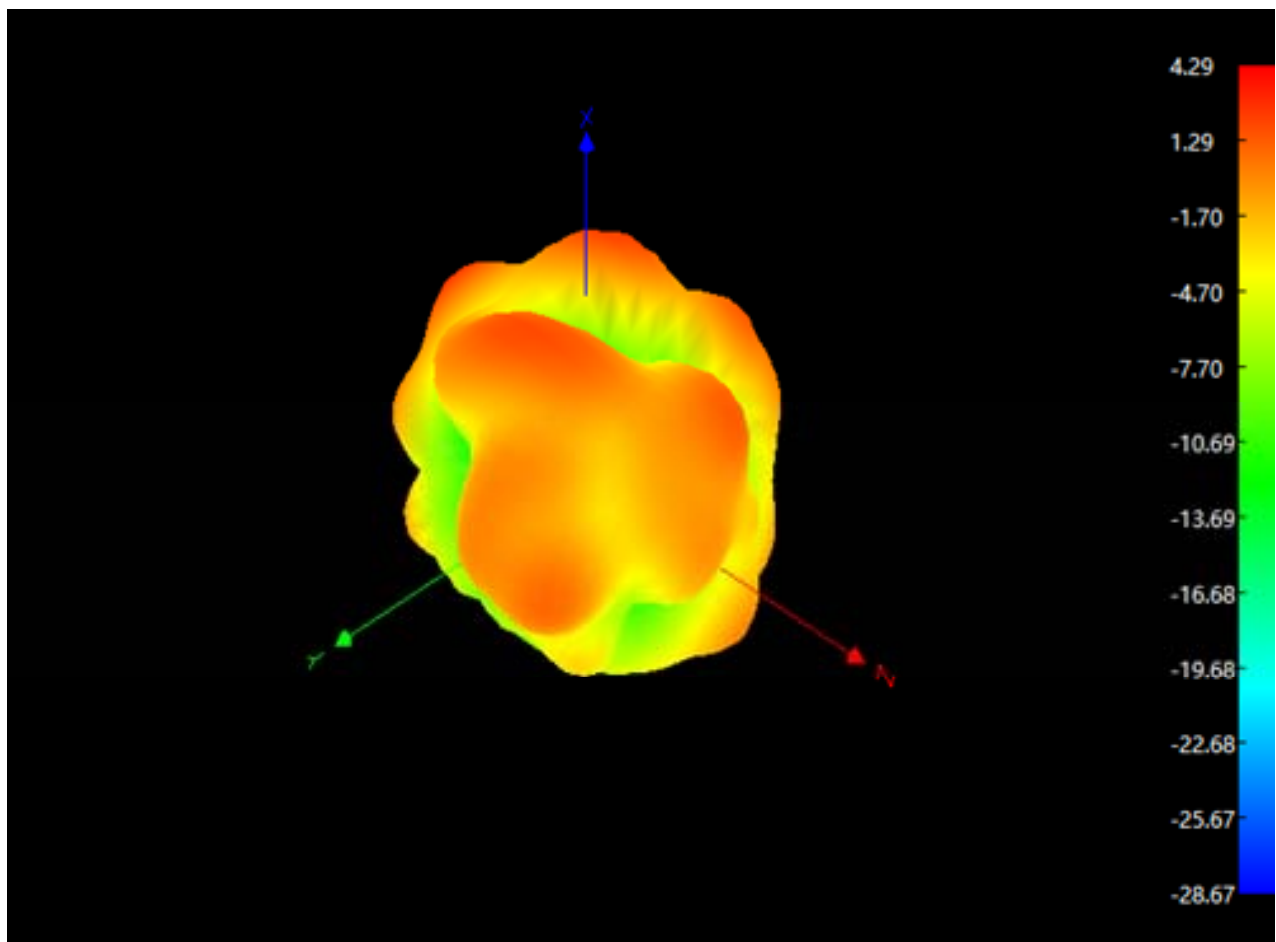
Passive Test For WiFi Antenna(5.8G)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	54.7	-2.6	4.5
5200	54.5	-2.6	4.4
5250	56.6	-2.5	4.4
5300	60.4	-2.2	4.4
5350	59.0	-2.3	3.7
5400	65.2	-1.9	4.3
5450	61.7	-2.1	4.3
5500	56.9	-2.5	4.3
5550	63.1	-2.0	4.8
5600	61.1	-2.1	4.7
5650	55.6	-2.6	4.0
5700	58.6	-2.3	4.5
5750	52.2	-2.8	3.9
5800	51.2	-2.9	4.0
5850	57.3	-2.4	4.1

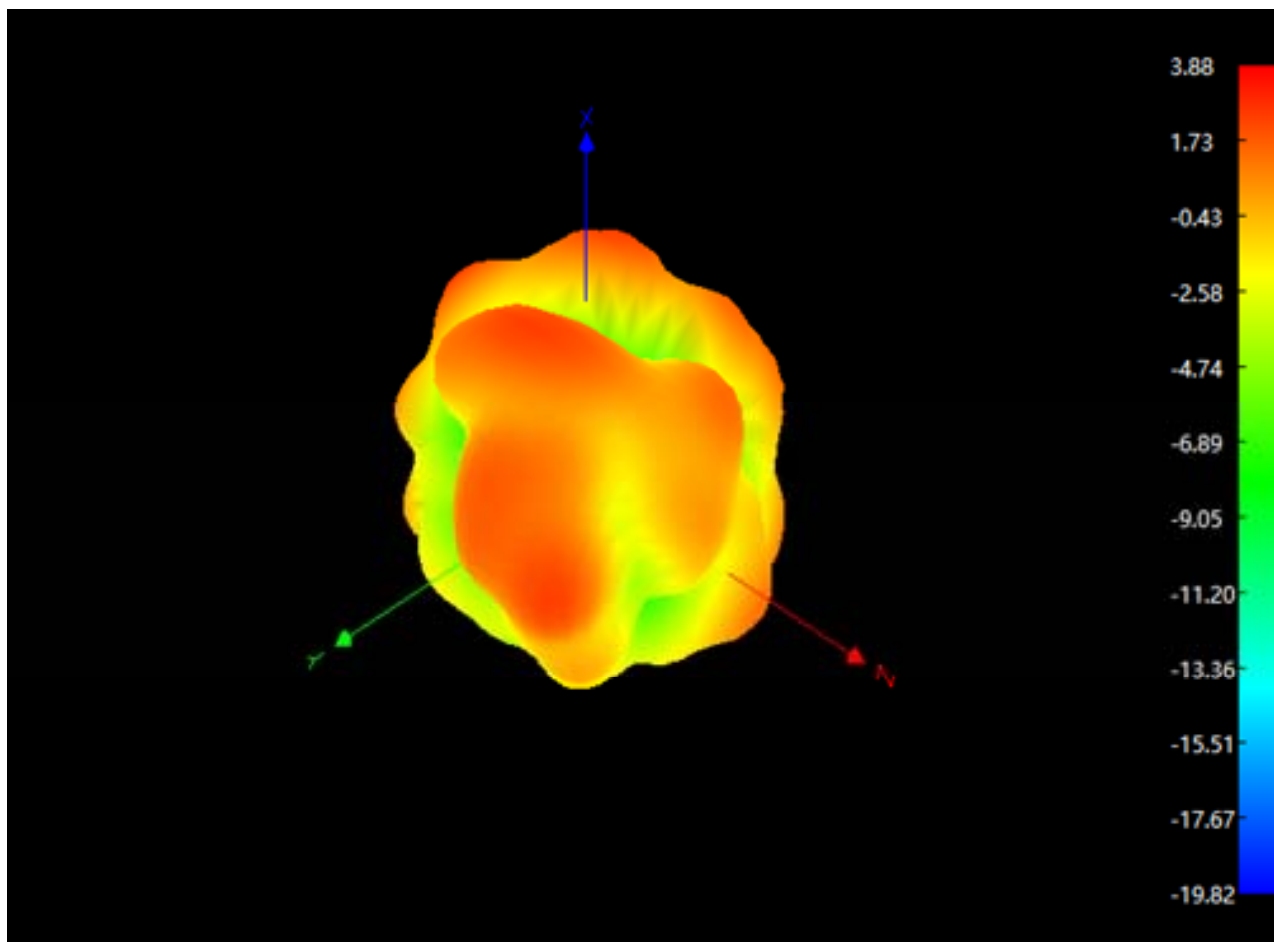
Radiation Pattern For WiFi Antenna (2400MHz)



Radiation Pattern For WiFi Antenna (2450MHz)

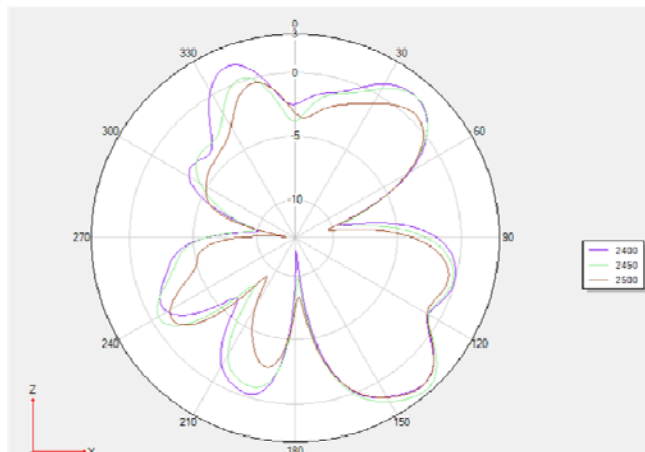


Radiation Pattern For WiFi Antenna (2500MHz)

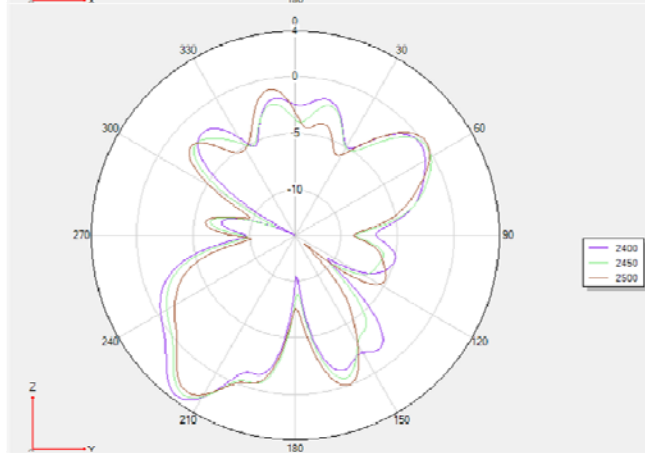


Radiation Pattern For WiFi Antenna

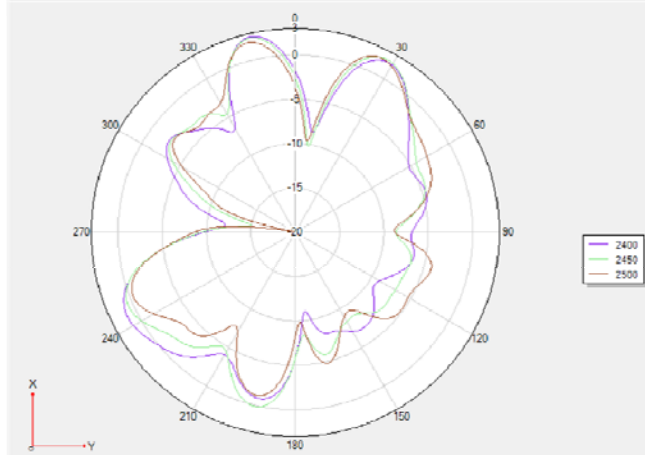
Phi 0°



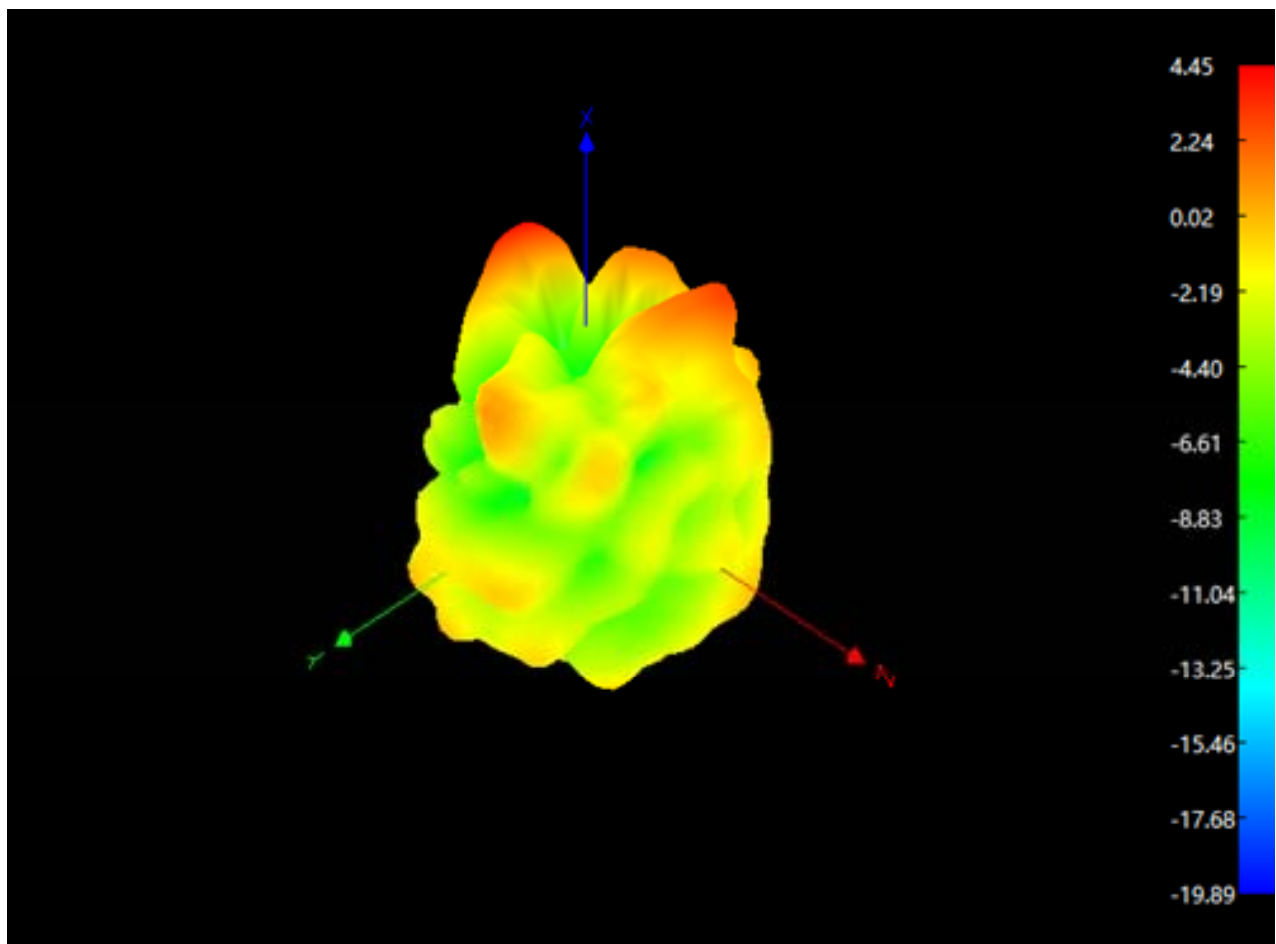
Phi 90°



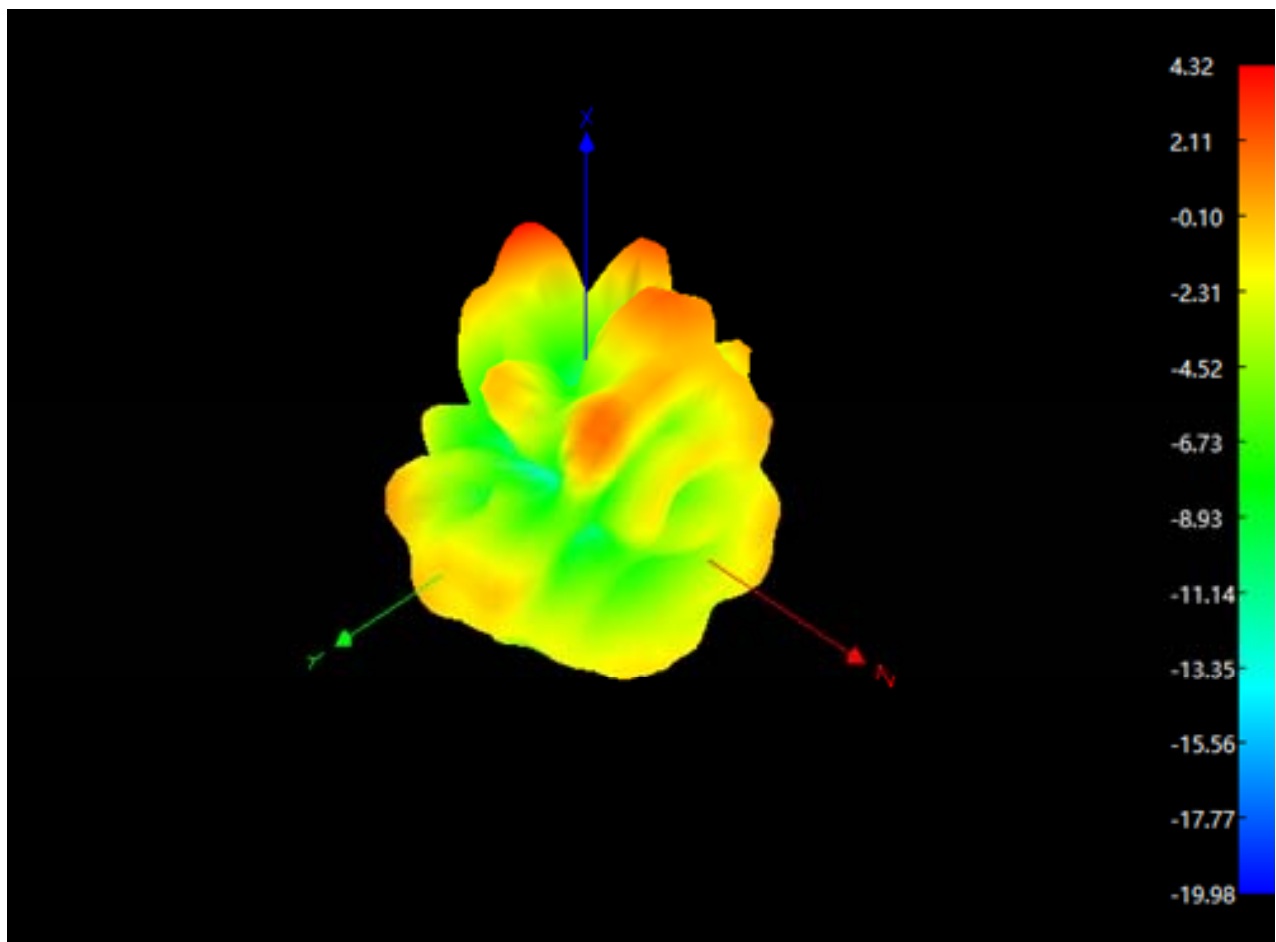
Theta 90°



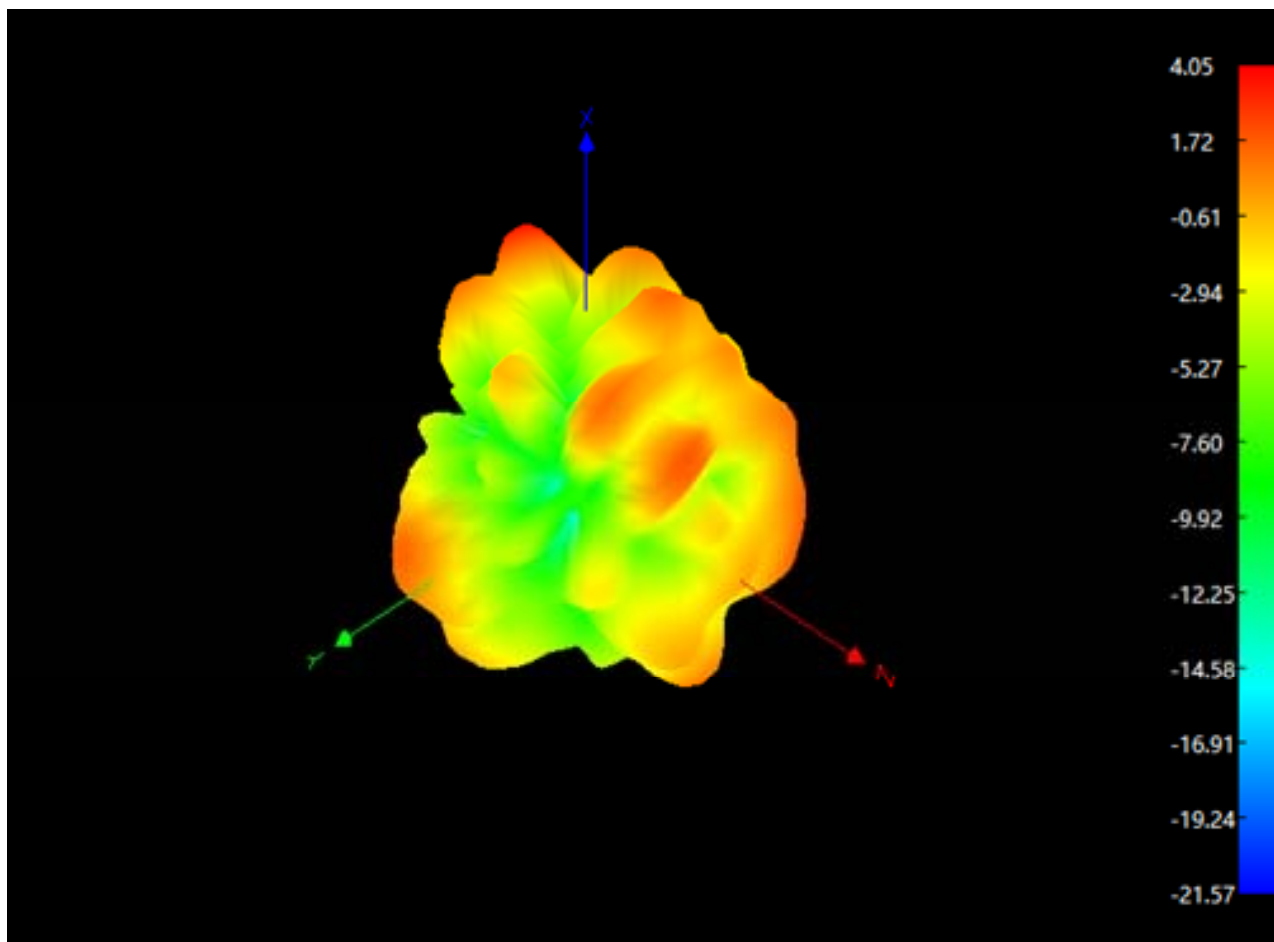
Radiation Pattern For WiFi Antenna (5150MHz)



Radiation Pattern For WiFi Antenna (5500MHz)

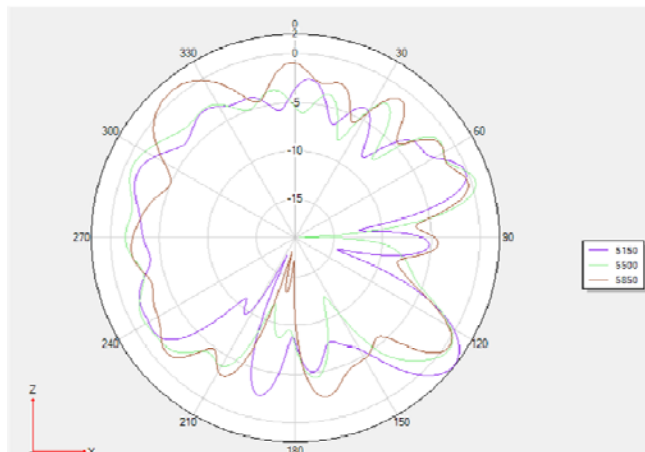


Radiation Pattern For WiFi Antenna (5850MHz)

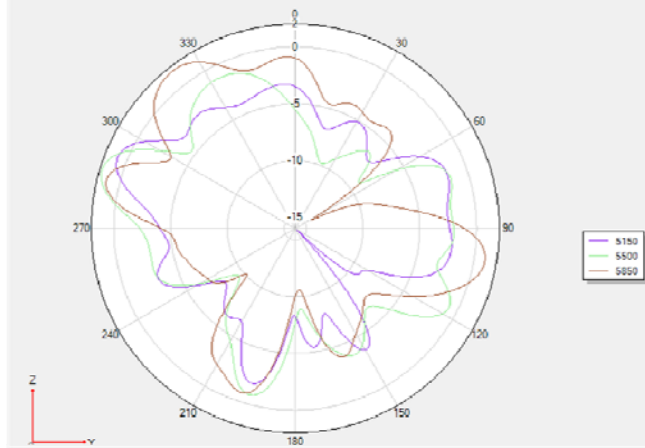


Radiation Pattern For WiFi Antenna

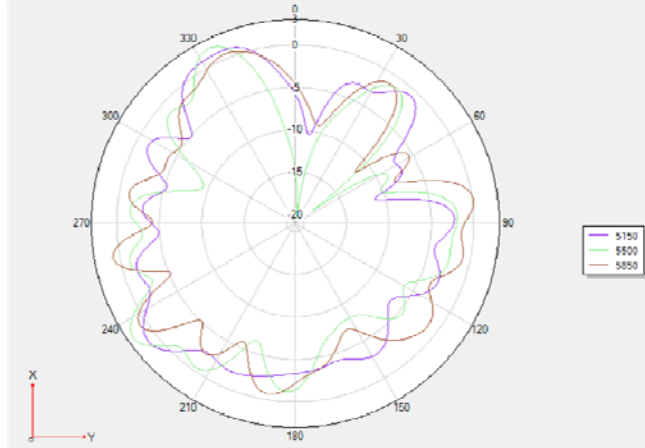
Phi 0°



Phi 90°

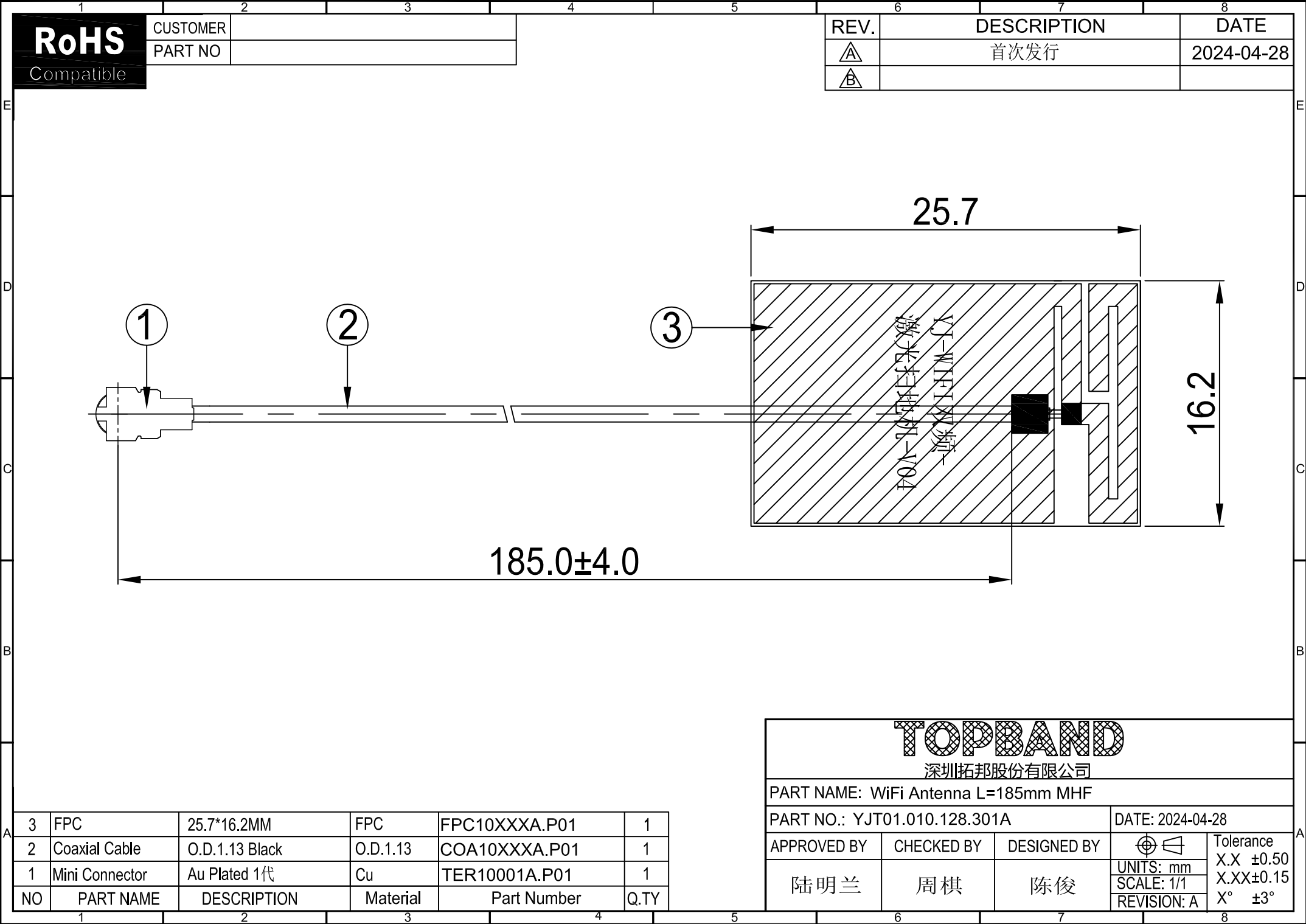


Theta 90°



WiFi Antenna





RoHS
Compatible

CUSTOMER	
PART NO	

REV.	DESCRIPTION	DATE
A	首次发行	2024-04-28
B		

3	FPC	25.7*16.2MM	FPC	FPC10XXXA.P01	1
2	Coaxial Cable	O.D.1.13 Black	O.D.1.13	COA10XXXA.P01	1
1	Mini Connector	Au Plated 1代	Cu	TER10001A.P01	1
NO	PART NAME	DESCRIPTION	Material	Part Number	Q.TY

TOPBAND				
深圳拓邦股份有限公司				
PART NAME: WiFi Antenna L=185mm MHF				
PART NO.: YJT01.010.128.301A			DATE: 2024-04-28	
APPROVED BY	CHECKED BY	DESIGNED BY		Tolerance
陆明兰	周棋	陈俊	UNITS: mm	X.X ±0.50
			SCALE: 1/1	X.XX±0.15
			REVISION: A	X° ±3°