

# SPECIFICATION

## SPECIFICATION FOR APPROVAL

物料描述

DESCRIBE: FPC WIFI FPC Antenna

项目名称

PROJECT NAME: D183

物料编码

PART NO: BY-D183-WIFI-A01

客户名称

CUSTOMER NAME: Shenzhen Aoni Electronics Co., LTD

客户料号

CUSTOMER (P/N):

日期

DATE: 2024-09-05

供应商承认

Supplier confirmation:

Customer confirmation			
Confirm	Proofread	Audit	Ratify

深圳市博远无线通讯技术有限公司

Shenzhen Boyuan wireless communication technology Co.,LTD

通讯地址: 深圳市宝安区石岩街道松柏路美生智谷春谷402

# Catalogue

- 一. **Cover**.....
- 二. **Catalogue**.....
- 三. **Change resume**.....
- 四. **Antenna picture**.....
- 五. **Antenna matching**.....
- 六. **Antenna performance**.....
- 七. **Antenna structural drawings**.....
- 八. **Measurement report**.....
- 九. **Bill Of Material**.....
- 十. **Assembly position**.....

三. Change resume

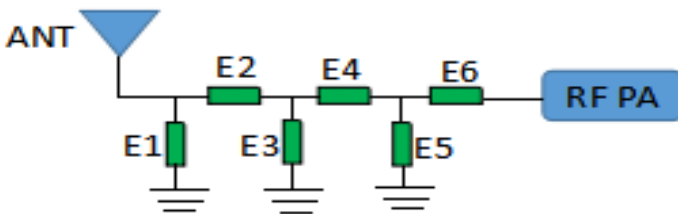
Item	Change date	project name	Versions	content of changed	Remark
1	2024.9.5	FPC Antenna	A01	/	First edition

#### 四. Antenna picture

##### 1. Antenna Structure



#### 五. Antenna matching



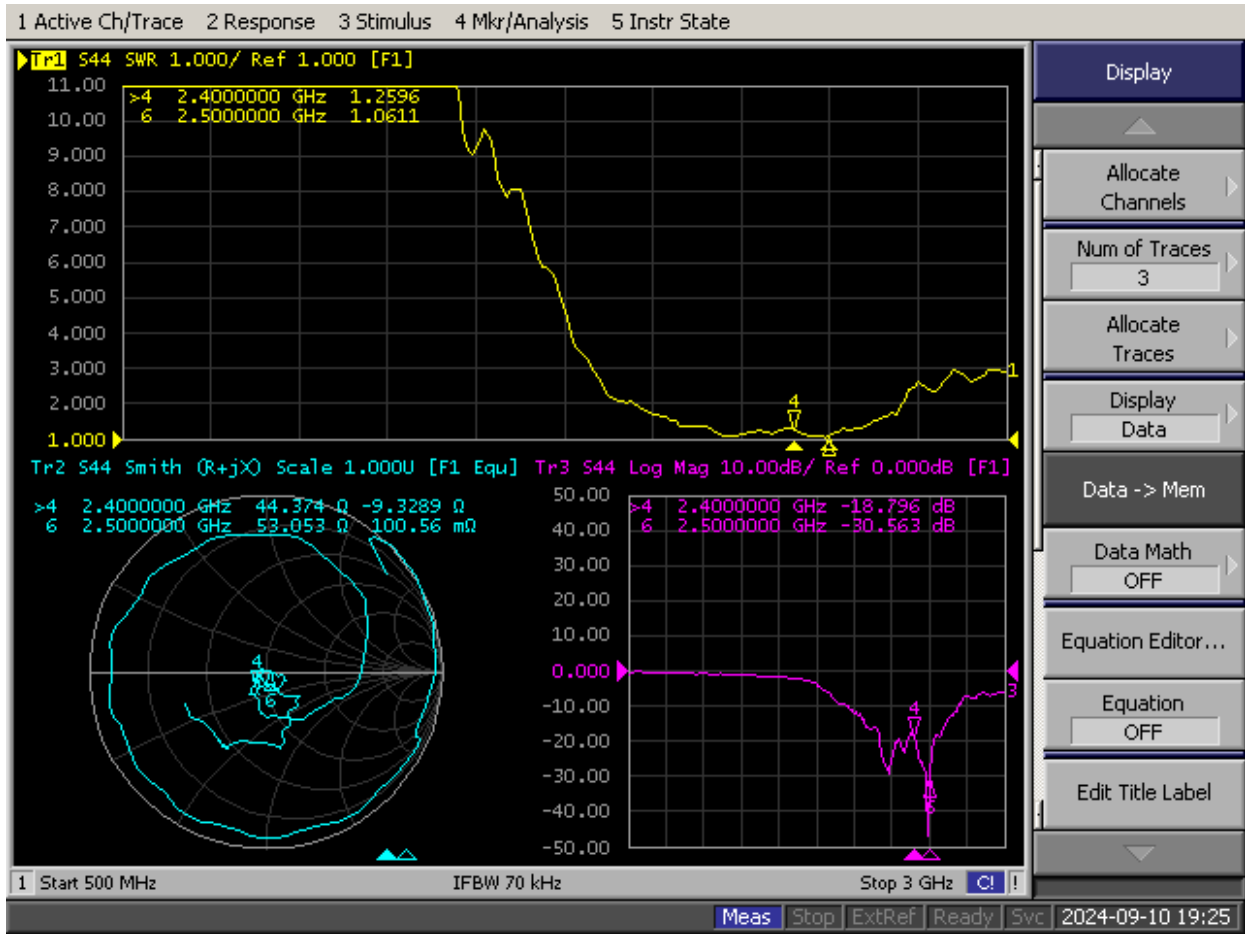
主路匹配		
Element	Value	
E1	N/A	
E2	0 Ω	
E3	N/A	
E4	0 Ω	
E5	N/A	
E6	N/A	

Antenna

**六. Antenna performance**

<b>Electrical Specification/电气特性</b>	
Freq. Range/频段范围 (MHz)	<b>2400-2500MHZ</b>
impedance/阻抗 (Ω)	<b>50 Ω</b>
Directional/辐射方向	<b>omnidirectional</b>
Polarization/极化方式	<b>Linear polarization</b>
<b>Mechanical Specification/机械指标</b>	
Material/材质	<b>FPC</b>
RF Cable/射频线规格	/
Connector Type/连接器类型	/
<b>Environmental Specification/环境指标</b>	
Operation temp/工作温度	<b>-20℃~+85℃</b>

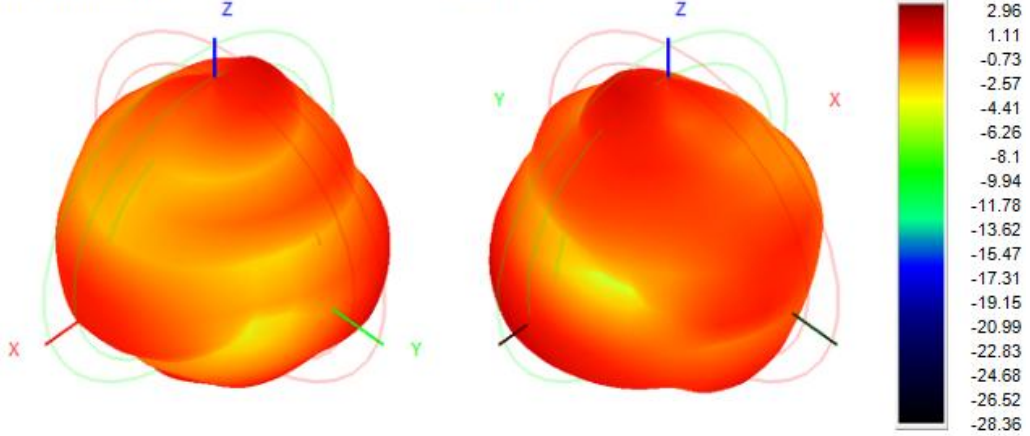
## Test data



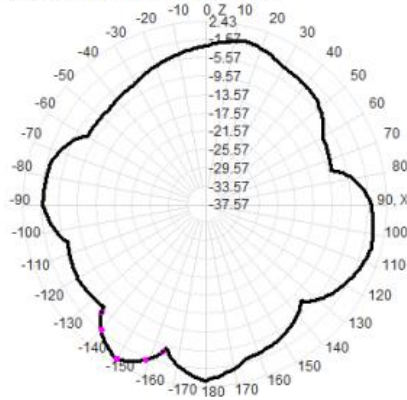
Frequency (MHz)	Gain (dBi)	Efficiency (%)
2400.0	2.32	49.56
2405.0	2.04	47.42
2410.0	1.91	47.64
2415.0	1.76	46.85
2420.0	1.77	46.68
2425.0	1.80	47.22
2430.0	1.85	48.15
2435.0	1.85	48.39
2440.0	2.08	50.01
2445.0	2.24	49.30
2450.0	2.58	50.82
2455.0	2.69	49.39
2460.0	2.95	50.32
2465.0	2.90	47.84
2470.0	3.06	48.86
2475.0	2.89	46.46
2480.0	2.96	47.20
2485.0	2.78	45.95
2490.0	2.75	46.97
2495.0	2.52	46.27
2500.0	2.53	48.15

2480.0MHz Total, Eff: 47.2%

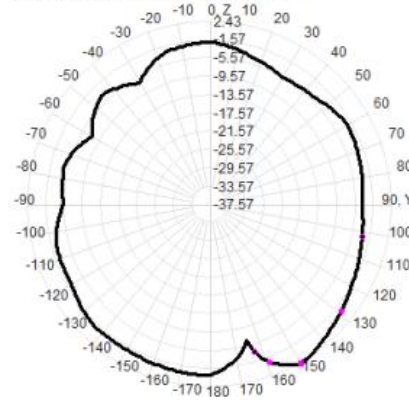
Back View



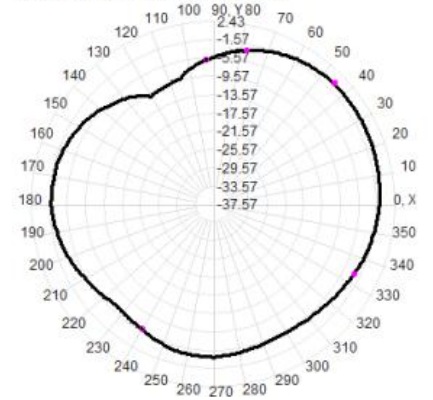
2480.0MHz Total(E1-XZ), Max= 1.36dBi



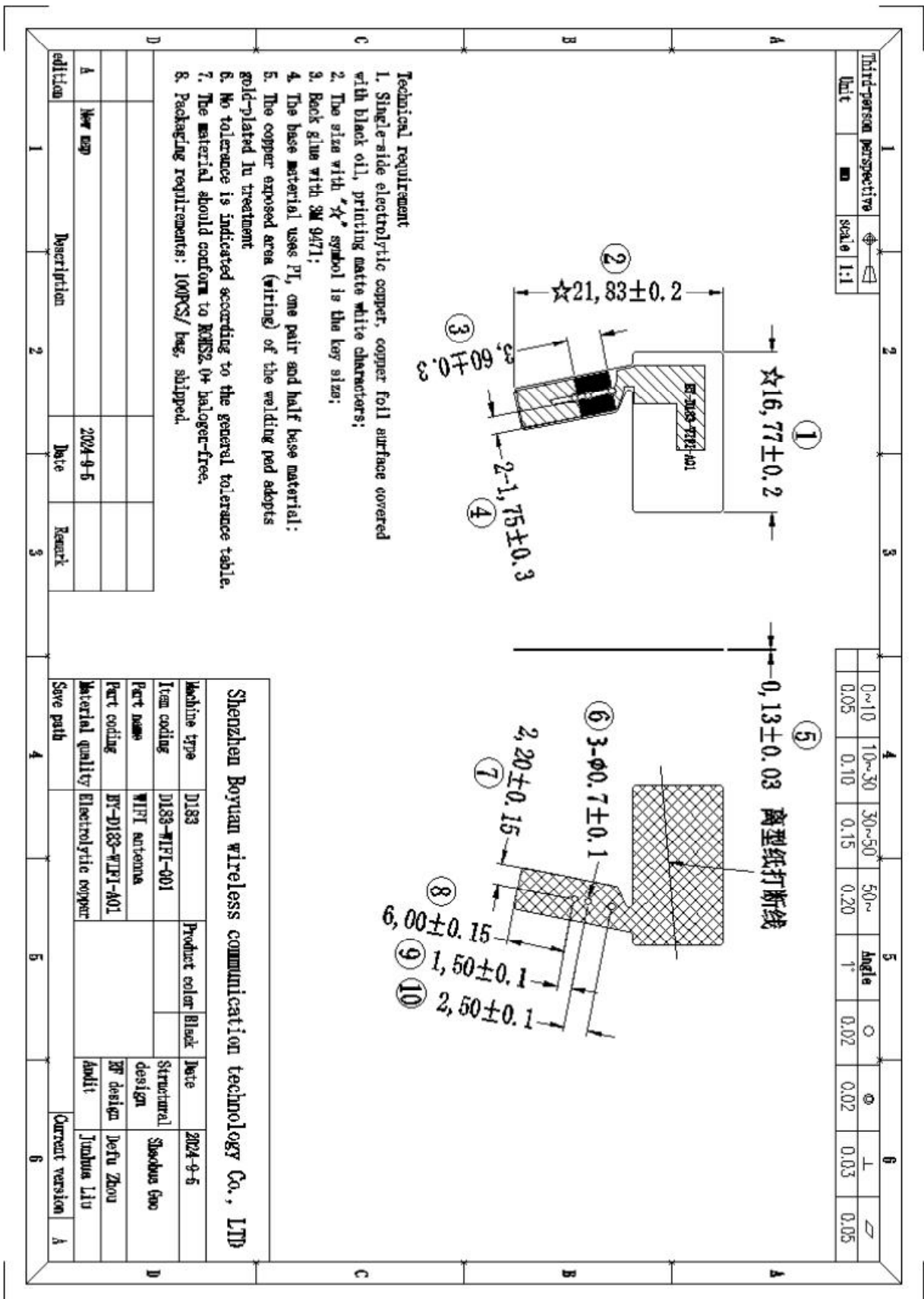
2480.0MHz Total(E2-YZ), Max= 2.43dBi



Total(H-XY), Max= -0.23dBi, CirD=10.11



## 七. Antenna structural drawings





## 八. Measurement report

Serial number	Dimension	Measured size					Dimensional tolerance	Determine
1	21.83	21.80	21.81	21.85	21.83	21.79	±0.2	√
2	16.77	16.79	16.75	16.77	16.81	16.72	±0.2	√
3	3.60	3.62	3.58	3.65	3.66	3.63	±0.3	√
4.1	1.75	1.79	1.77	1.73	1.76	1.81	±0.3	√
4.2	1.75	1.74	1.76	1.79	1.80	1.78	±0.3	√
5	0.13	0.11	0.13	0.12	0.10	0.11	±0.03	√
6.1	0.70	0.72	0.68	0.73	0.69	0.71	±0.1	√
6.2	0.70	0.73	0.71	0.67	0.75	0.74	±0.1	√
6.3	0.70	0.75	0.66	0.73	0.68	0.71	±0.1	√
7	2.20	2.26	2.17	2.21	2.23	2.18	±0.15	√
8	6.00	6.03	6.07	6.05	5.97	6.01	±0.15	√
9	1.50	1.51	1.55	1.47	1.49	1.52	±0.1	√
10	2.50	2.49	2.52	2.55	2.51	2.53	±0.1	√
11								
12								
13								
14								
15								
16								

## 九. Bill Of Material

Serial number	Name	Material specification	Dosage
1	FPC	Material: one-half, single-side electrolytic copper, black, 3M9471 adhesive	1
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			

## 十. Assembly position

