SPECIFICATION

for

3DB glue stick 915MHz antenna

Customer No.

400103860

Product No.

SD0603-915MHZ/3DB white blade glue rod antenna

Author：XiaofengZeng Review：Liming

Release Date： 2025.5.22

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SHENZHEN SHUODIAN ELECTRONIC TECHNOLOGY CO., LTD 1

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1. Bilateral Confirmation page

1.1 Customer signature

Customer：

Separtment/post	Sign	Date
Hardware Engineer/RD		
Mechanical/MD		
Project Manager/PM		
Commercial/Puchasing		
Checker		

1.2 Signature of ShuoDian Technology company

Separtment/post	Sign	Date
Antenna Engineer/RD		
Mechanical/MD		
Project Manager/PM		
QA		
Checker		

2. General

2.1 Scope of application

This specification is only applicable to 3DB glue stick 915MHZ antenna

2.2 Operating temperature range

Temperature range of this product: -20 ~ +65 ℃

2.3 Storage temperature range:

This product is stored at - 30 ~ + 75 ℃

3. General product specifications

NO.	ITEMS	DETAILS
1	Type	glue stick 915MHZ antenna
2	Operating Frequency Band	900-930MHz
3	VSWR	≤2.0
4	GAIN	3dBi
5	Impedance	50Ω
6	Antenna Type	glue stick WiFi antenna
7	Antenna composition	External antenna of glue rod
8	Entity Picture	 

4. Specification Detials

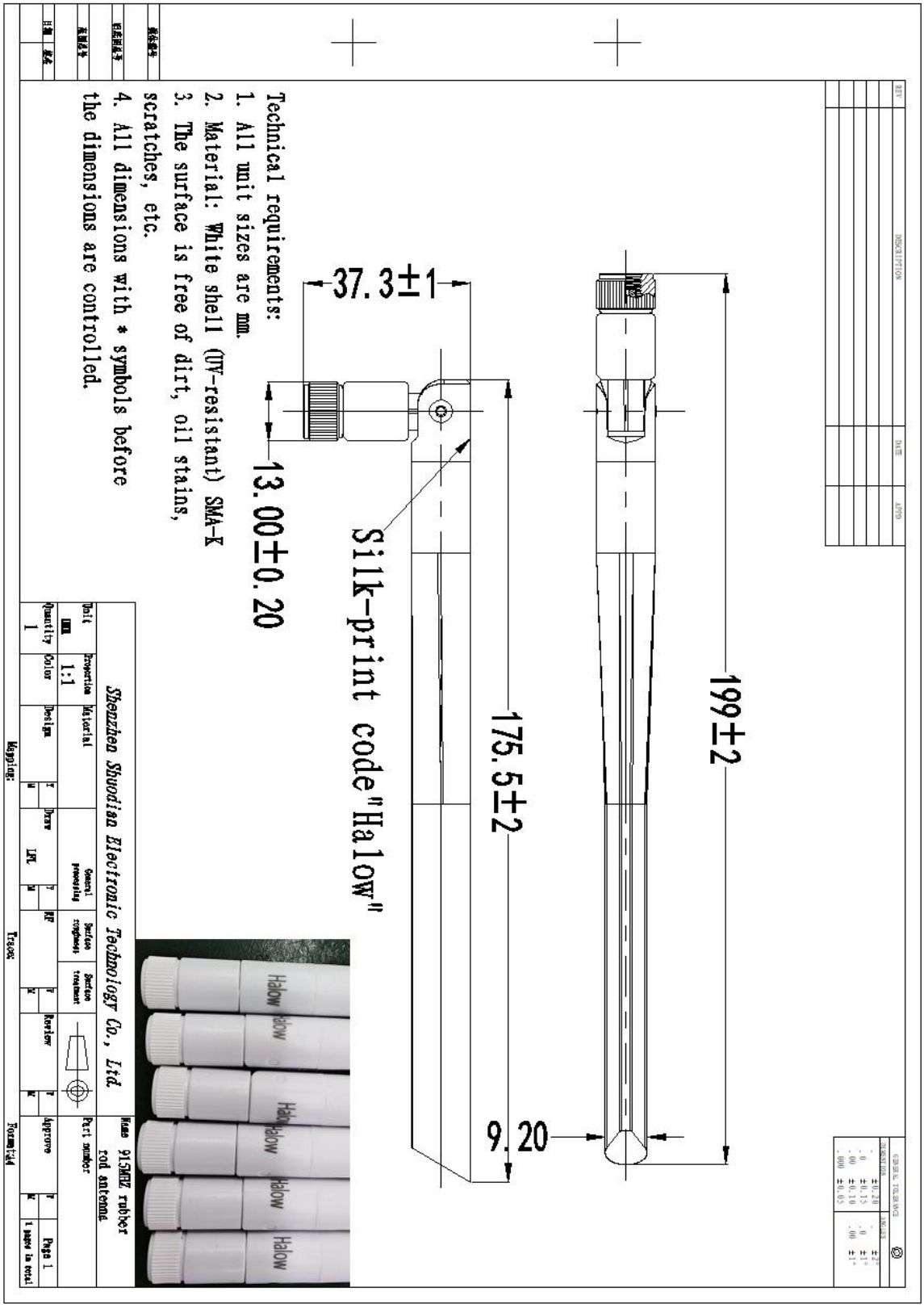
4.1 Mechanical Properties

4.12 Apperance

Good appearance without scars 、dirts、protuberances, etc.

4.13 Antenna Picture and Structure Dimension

Productdrawings:


199±2
175.5±2
37.3±1
13.00±0.20
9.20
Silk-print code"Halow"
Technical requirements:
1. All unit sizes are mm.
2. Material: White shell (UV-resistant) SMA-K
3. The surface is free of dirt, oil stains, scratches, etc.
4. All dimensions with * symbols before the dimensions are controlled.
Shenzhen Shuodian Electronic Technology Co., Ltd
Name 915MHZ rubber rod antenna
Halow

4. 2 Electric Performance

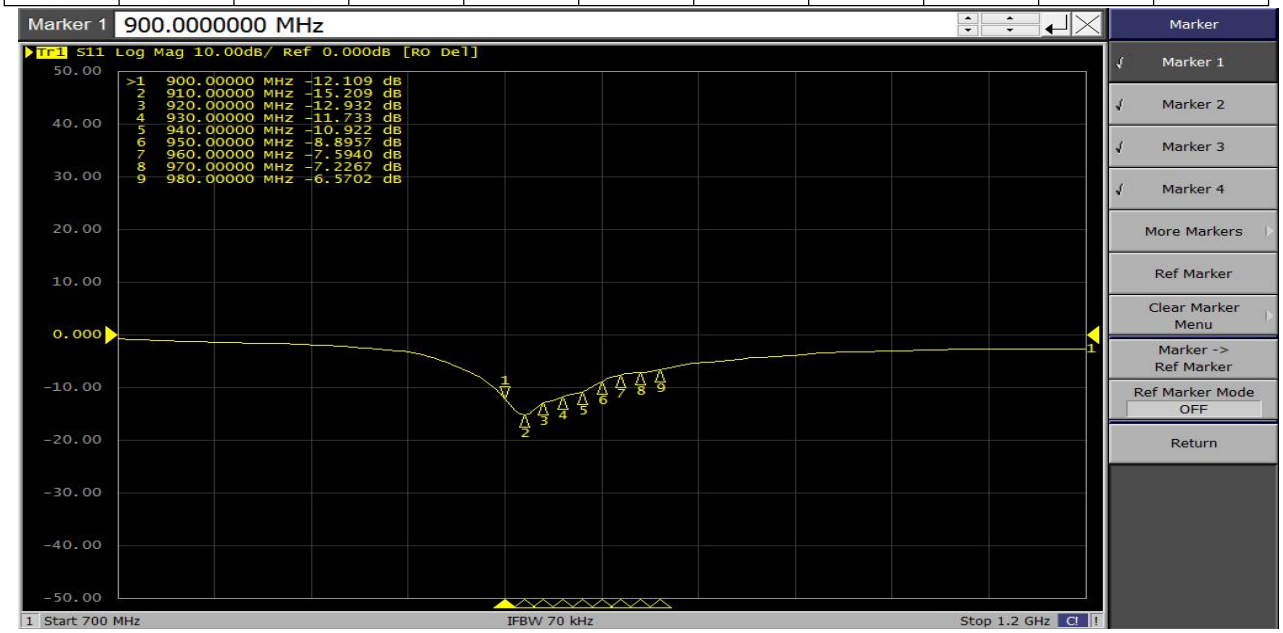
4. 21 Test condition

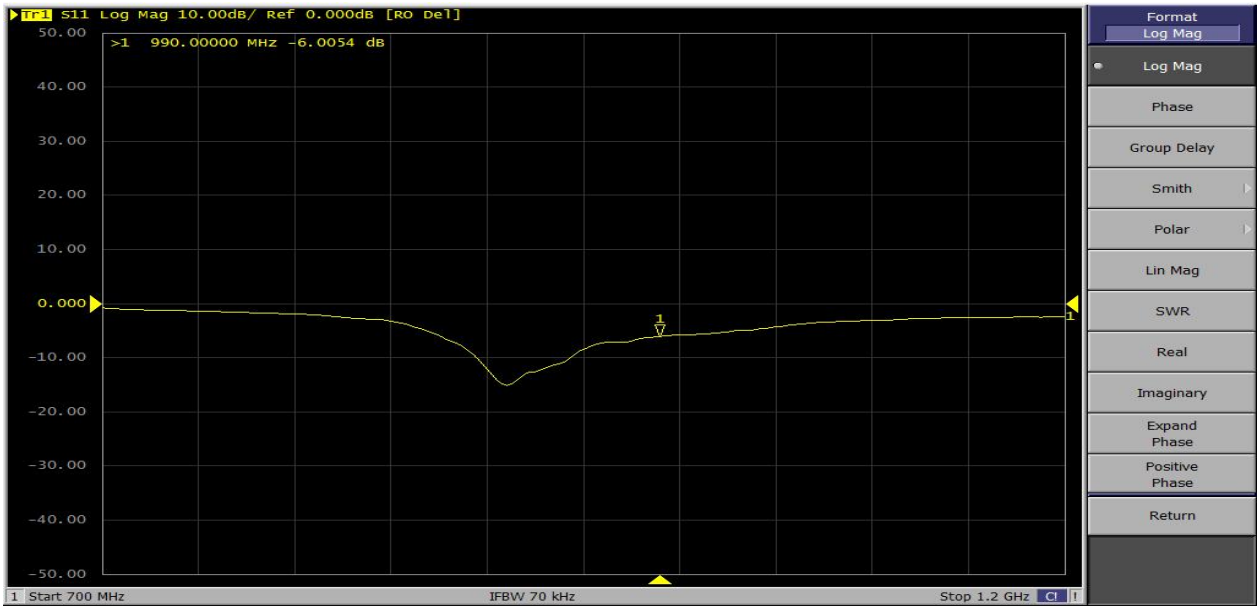
Environment: Temperature: 10℃——+30℃ Humidity: ≤80%（+40℃） Atmospher: 750mmkg±30mmkg	Equipment: Network Analyzer: KEYSIGHT E5071C Multi-probe microwave anechoic chamber

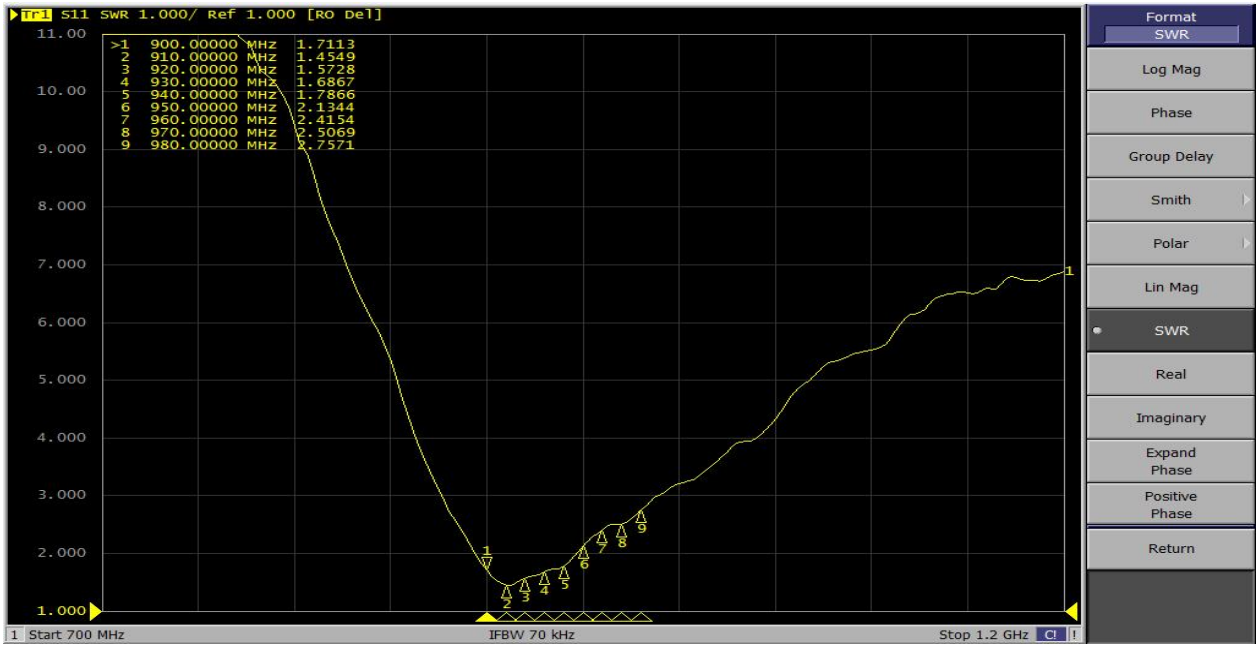
4. 22 Test Data for Electrical Performance:

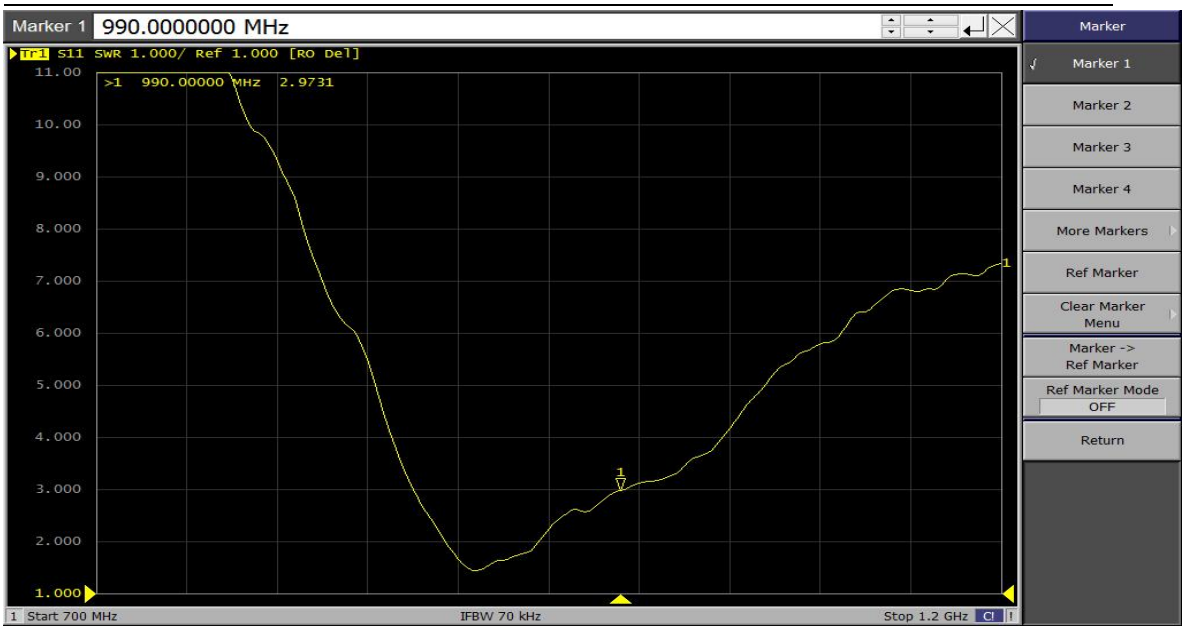
4.22.1 S11 of the Antenna:

Marker（MHz）	900	910	920	930	940	950	960	970	980	990
Return Loss	-12.10	-15.20	-12.93	-11.73	-10.92	-8.89	-7.59	-7.22	-6.57	-6.00
VSWR	1.71	1.45	1.57	1.68	1.78	2.12	2.41	2.50	2.75	2.97




Tr1 S11 Log Mag 10.00dB/ Ref 0.000dB [RO Del]
>1 990.00000 MHz -6.0054 dB
50.00
40.00
30.00
20.00
10.00
0.000
-10.00
-20.00
-30.00
-40.00
-50.00
1 Start 700 MHz
IFBW 70 kHz
Stop 1.2 GHz
Format
Log Mag
Log Mag
Phase
Group Delay
Smith
Polar
Lin Mag
SWR
Real
Imaginary
Expand Phase
Positive Phase
Return

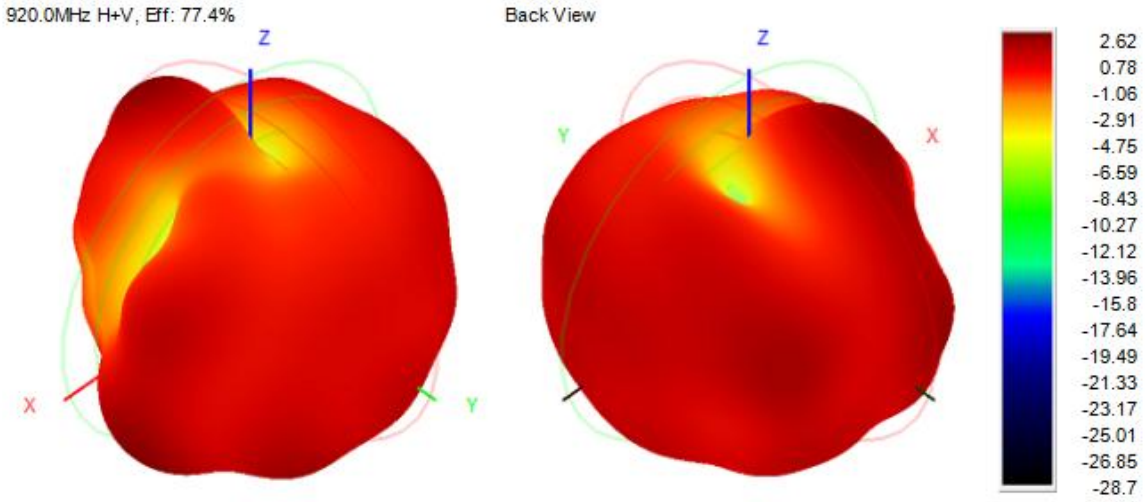

Tr1 S11 SWR 1.000/ Ref 1.000 [RO Del]
>1 900.00000 MHz 1.7113
2 910.00000 MHz 1.4549
3 920.00000 MHz 1.5728
4 930.00000 MHz 1.6867
5 940.00000 MHz 1.7866
6 950.00000 MHz 2.1344
7 960.00000 MHz 2.4154
8 970.00000 MHz 2.5069
9 980.00000 MHz 2.7571
11.00
10.00
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
1 Start 700 MHz
IFBW 70 kHz
Stop 1.2 GHz
Format
SWR
Log Mag
Phase
Group Delay
Smith
Polar
Lin Mag
SWR
Real
Imaginary
Expand Phase
Positive Phase
Return

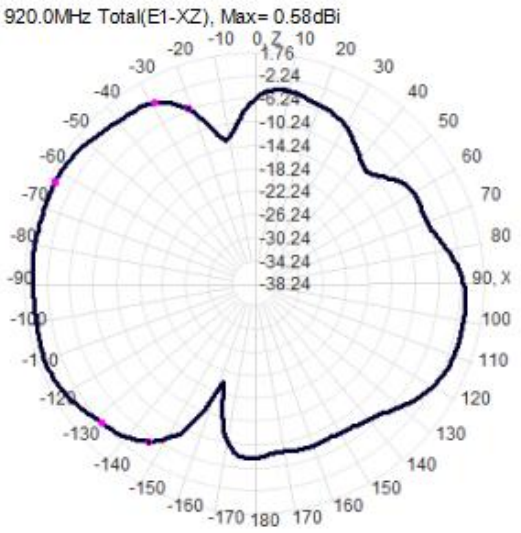


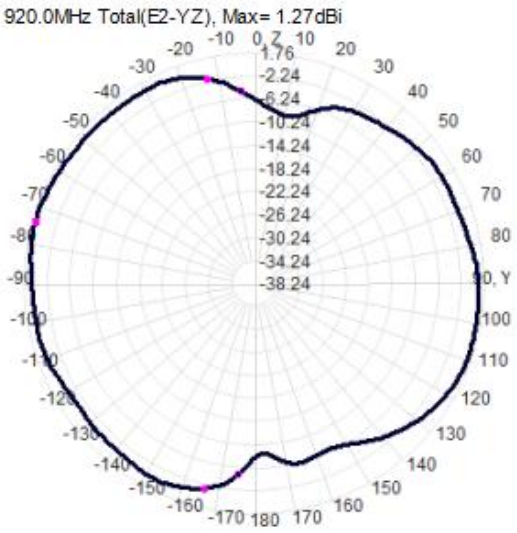
4. 22. 2 Passive gain、 efficiency and Radiation Pattern:

Marker （MHz）	900	910	920	930	940	950	960	970	980	990
Gain（dBi）	2.53	2.92	2.62	2.76	2.39	2.01	1.81	1.57	1.51	1.55
Efficiency （%）	65.59	75.95	77.42	73.02	67.52	63.65	59.94	58.32	57.53	57.74

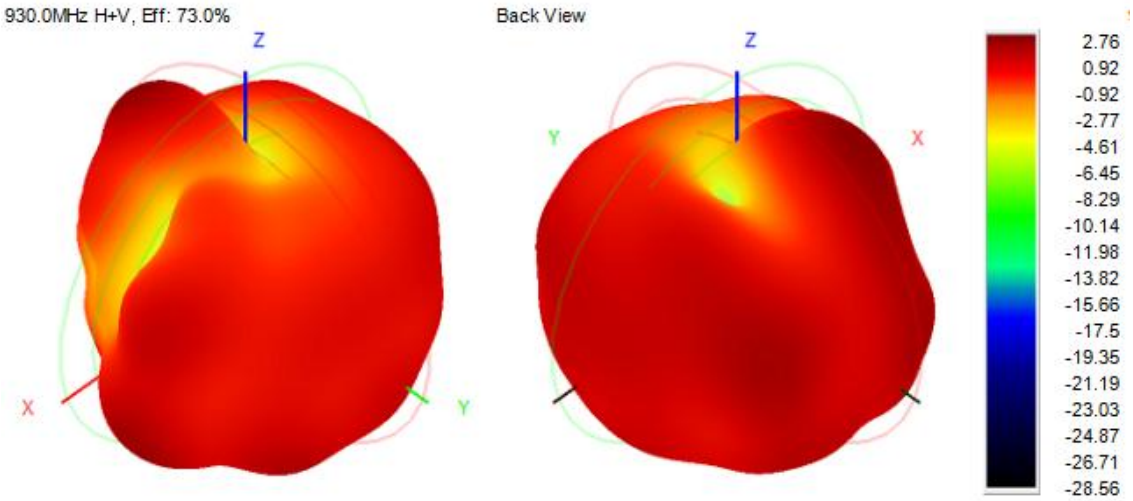
Radiation Pattern
@920MHz

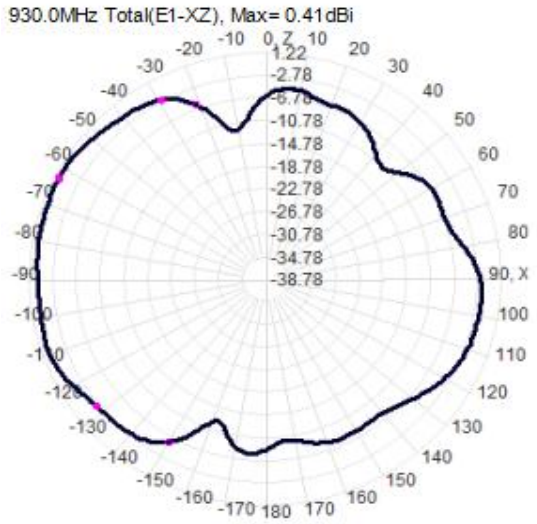

920.0MHz H+V, Eff: 77.4%
Z
X
Y
Back View
Z
Y
X
2.62
0.78
-1.06
-2.91
-4.75
-6.59
-8.43
-10.27
-12.12
-13.96
-15.8
-17.64
-19.49
-21.33
-23.17
-25.01
-26.85
-28.7

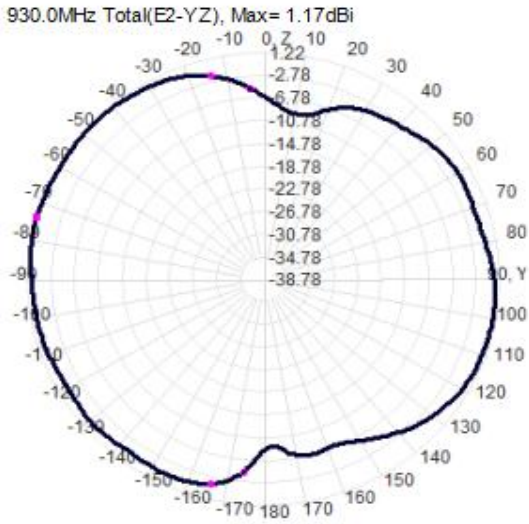

920.0MHz Total(E1-XZ), Max= 0.58dBi
1.76
-2.24
-6.24
-10.24
-14.24
-18.24
-22.24
-26.24
-30.24
-34.24
-38.24
90, X


920.0MHz Total(E2-YZ), Max= 1.27dBi
1.76
-2.24
-6.24
-10.24
-14.24
-18.24
-22.24
-26.24
-30.24
-34.24
-38.24
90, Y

930MHz:







5. Product Packaging

Manner of packing**:**

Packed in self sealed bags, 100 pcs each.

6. Document Resume

Document No.	
Release Date	2025/5/22
Author	XiofengZeng
Review	LiMing

Revised History

Date	Version	Revised Record
2025/5/22	1.00	New Project