



SPECIFICATION

for

SD101-C/FPC 天线 2.4G 天线

Customer No.

Product No.

SD101-C/FPC 天线 2.4G 天线

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2. General

2.1 Scope of application

SD101-C/FPC 天线 2.4G 天线

2.2 Operating temperature range

Temperature range of this product: -20 ~ +65 °C

2.3 Storage temperature range:

This product is stored at - 30 ~ + 75 °C

3. General product specifications

NO.	ITEMS	DETAILS
1	Type	SD101-C/FPC 天线 2.4G 天线
2	Operating Frequency Band	2400-2500MHz
3	VSWR	<2.0
5	Radiation Efficiency	≥50%
6	Impedance	50Ω
7	Antenna Type	Dipole Array
8	Antenna composition	FPC



4. Specification Details

4.1 Mechanical Properties

4.11 Product Composition:

No.	Material	Size (MM)
1	FPC	27.48*26.23
2	Coxial Line	Ø1.13 55MM Black

4.12 Apperance

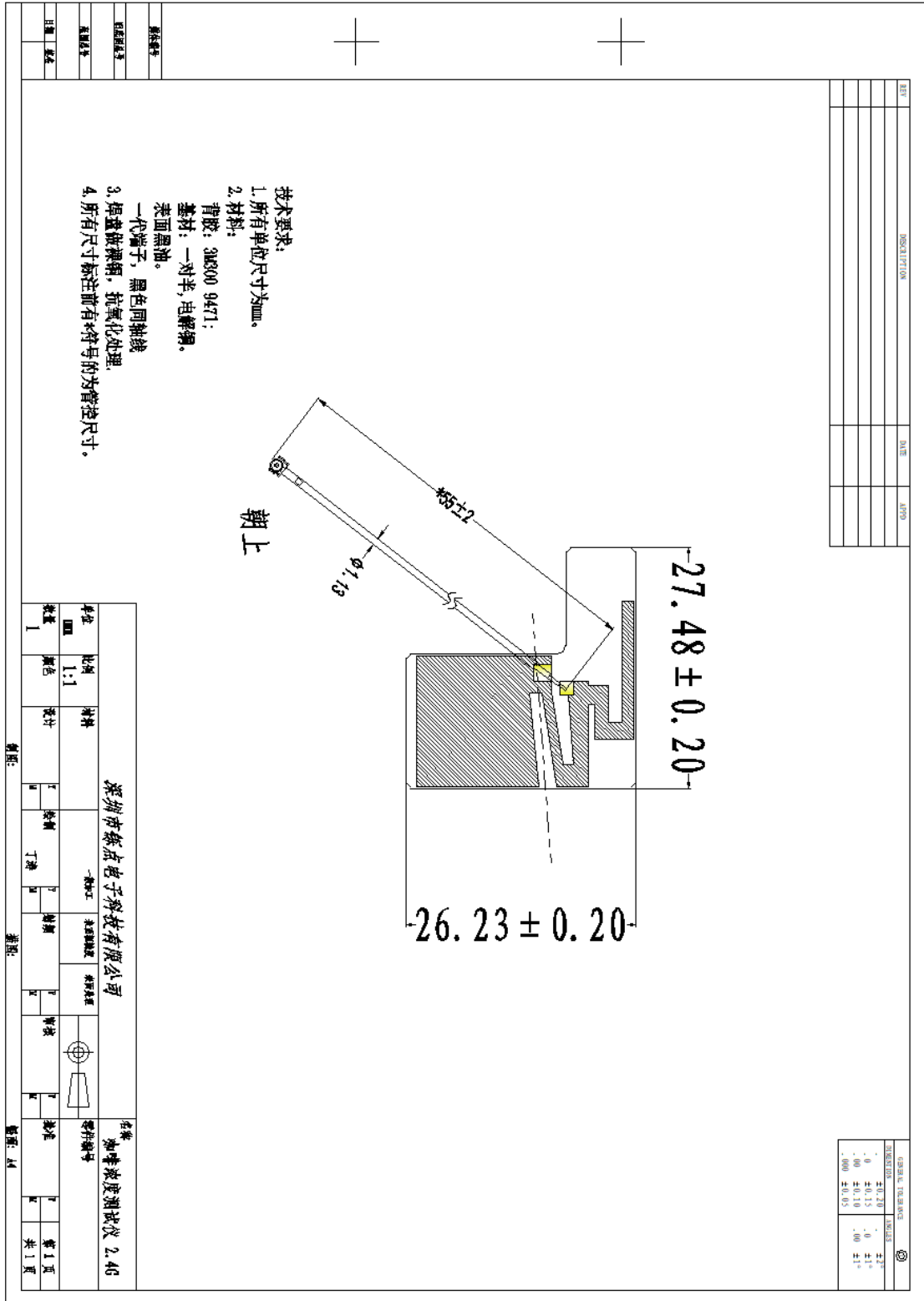
Good appearance without scars 、 dirt、 protuberances, etc.

4.13 Antenna Picture and Structure Dimension

Refer to product drawings:



Product drawings:





4.2 Electric Performance

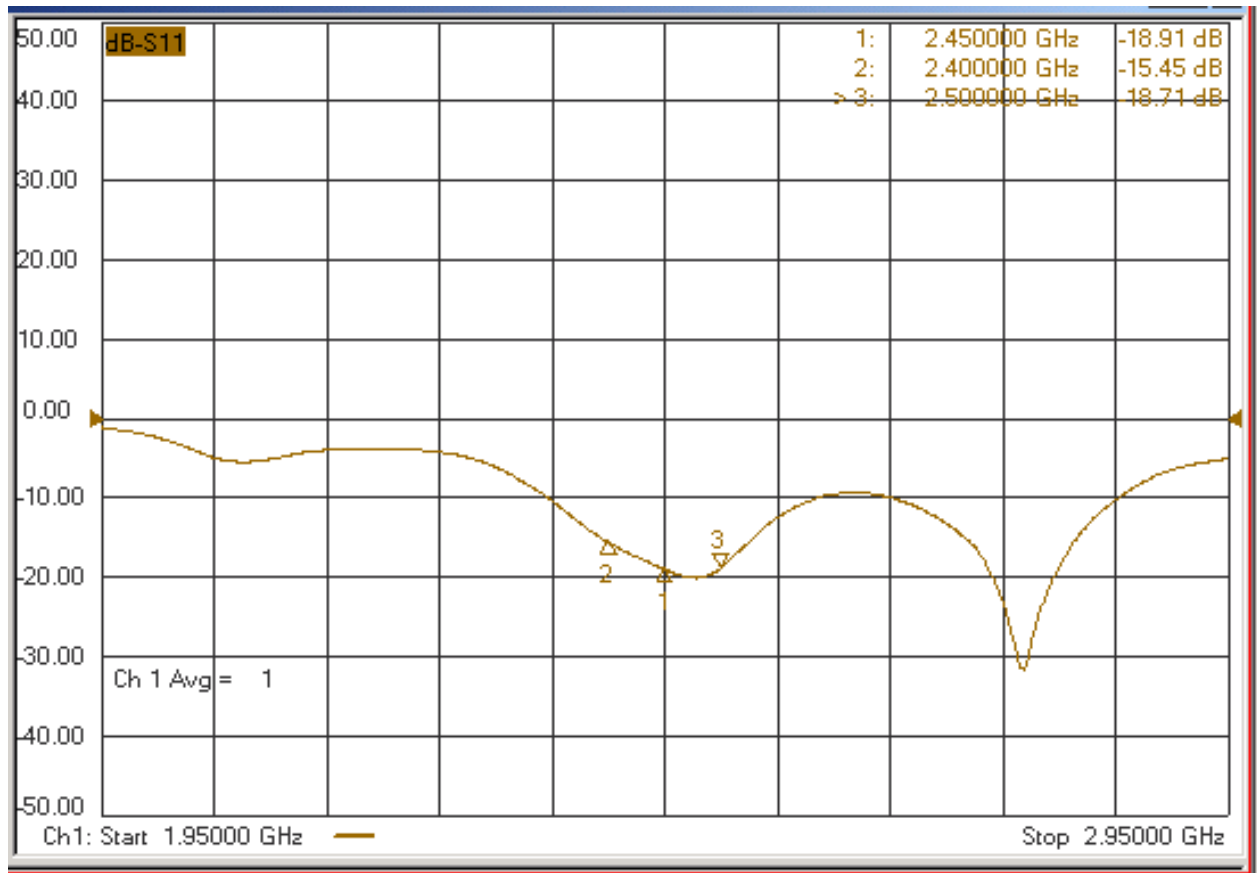
4.21 Test condition

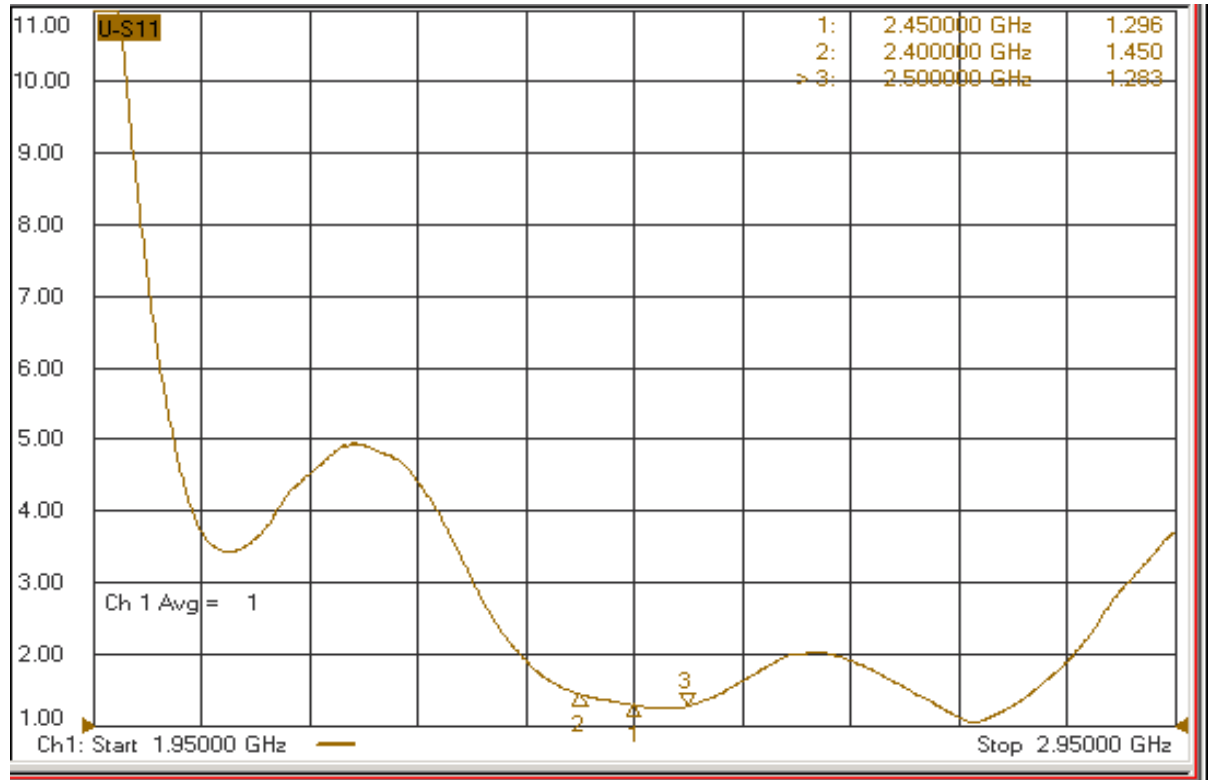
Environment:	Equipment:
Temperature: 10°C——+30°C	Network Analyzer: Agilent E8358A
Humidity: ≤80% (+40°C)	Anechior Chamber: ETS
Atmospher: 750mmkg±30mmkg	

4.22 Test Data for Electrical Performance:

4.22.1 S11 of the Antenna:

Marker	2400MHz	2450MHz	2500MHz
Returnloss	-15.5	-18.9	-18.7
VSWR	1.4	1.2	1.2



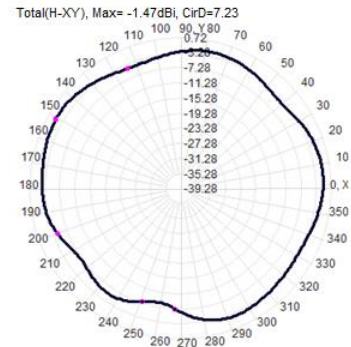
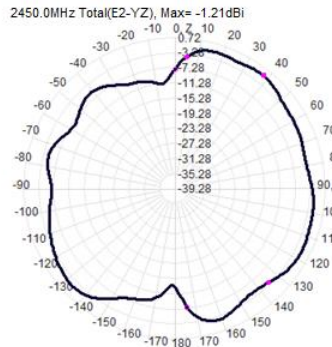
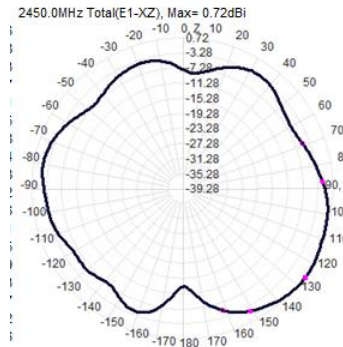


4. 22. 2 天线的增益效率和辐射方向图:

频率 (Mhz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Gain(dBi)	1.02	1.12	1.15	1.21	1.17	1.26	1.49	1.64	1.62	1.56	1.47
Efficenc (%)	39.62	40.10	40.11	40.31	40.32	40.42	40.70	41.62	41.18	40.85	40.63

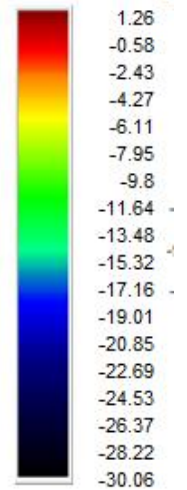
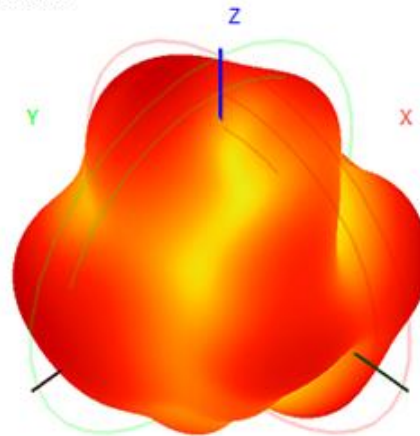
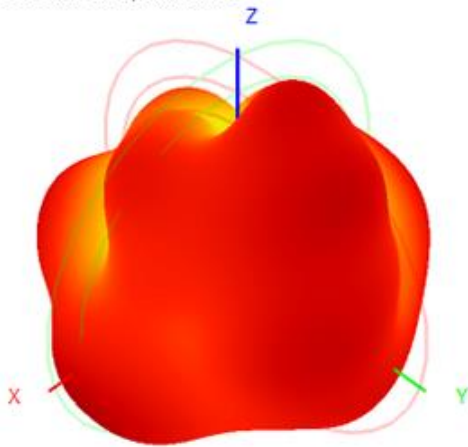


Radiation pattern: frequency 2450MHz



2450.0MHz H+V, Eff: 40.4%

Back View





5. Product Packaging

Manner of packing:

Packed in self sealed bags, 200 pcs each.

6. Document Resume

Document No.	
Release Date	2023/6/21
Author	Hungjie
Review	WH

Revised History

Date	Version	Revised Record
2023/6/21	1.00	New Project