



SPECIFICATION

for

K30(130L) 2.4-5.8G WiFi FPC antenna

Customer No.

Product No.

SD-6-FPC-70MM(white low loss)

(1.17.01.00087 K34-130L dual-band WIFI FPC antenna

SD-6-FPC-70MM (white low loss) 2.4-5.8G line length 70mm WIFI

FPC/band 2400-2500MHZ 5100-5900MHZ/FPC+1.13 coaxial line +

terminal)

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Release Date: 2025.12.03

Manufacturer company name:

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Shenzhen Shuodian Electronic Technology Co.,Ltd



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1. Bilateral Confirmation page

1.1 Customer signature

Customer:

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

1.2 Signature of ShuoDian Technology company

Seapartment/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 K30(130L) 2.4G-5.8G WIFI antenna

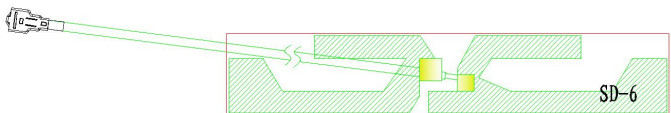
2.2 Operating temperature range

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	K30(130L) WiFi antenna
2	Operating Frequency Band	2400-2500MHz 5100-5900MHZ
3	VSWR	≤ 2.4
4	Impedance	50 Ω
5	Antenna Type	Dipole
6	Antenna composition	FPC+CABLE
7	Entity Picture	



4. Specification Detials

4.1 Mechanical Properties

4.11 Product Composition:

No.	Material	Size (MM)
1	FPC	40.25*7.38 Black
2	CABLE	IPEX-1 ϕ 1.13 L=70 white low loss

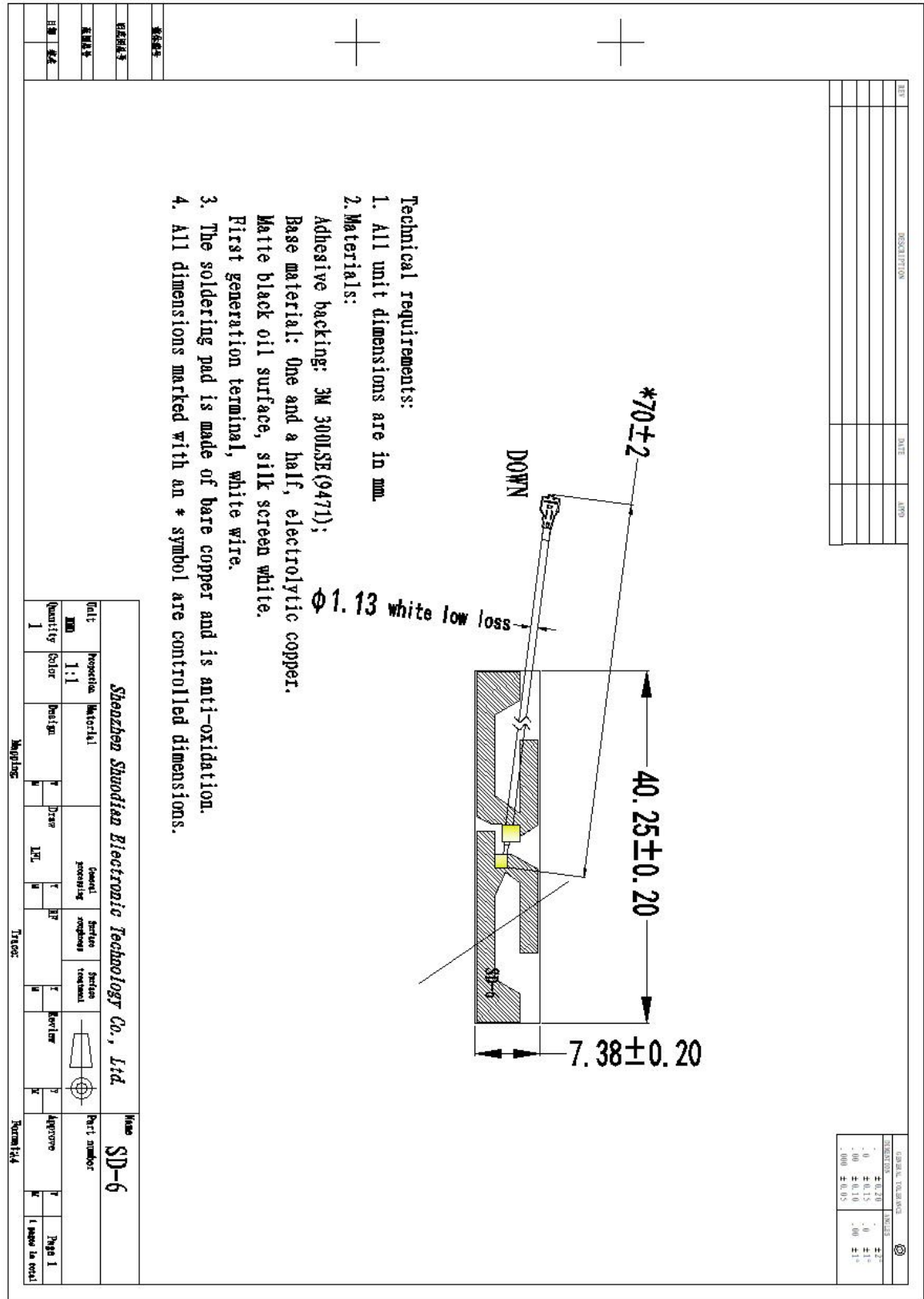
4.12 Apperance

Good appearance without scars 、 dirt、 protuberances, etc.

4.13 Antenna Picture and Structure Dimension

Productdrawings:

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4.2 Electric Performance

4.21 Test condition

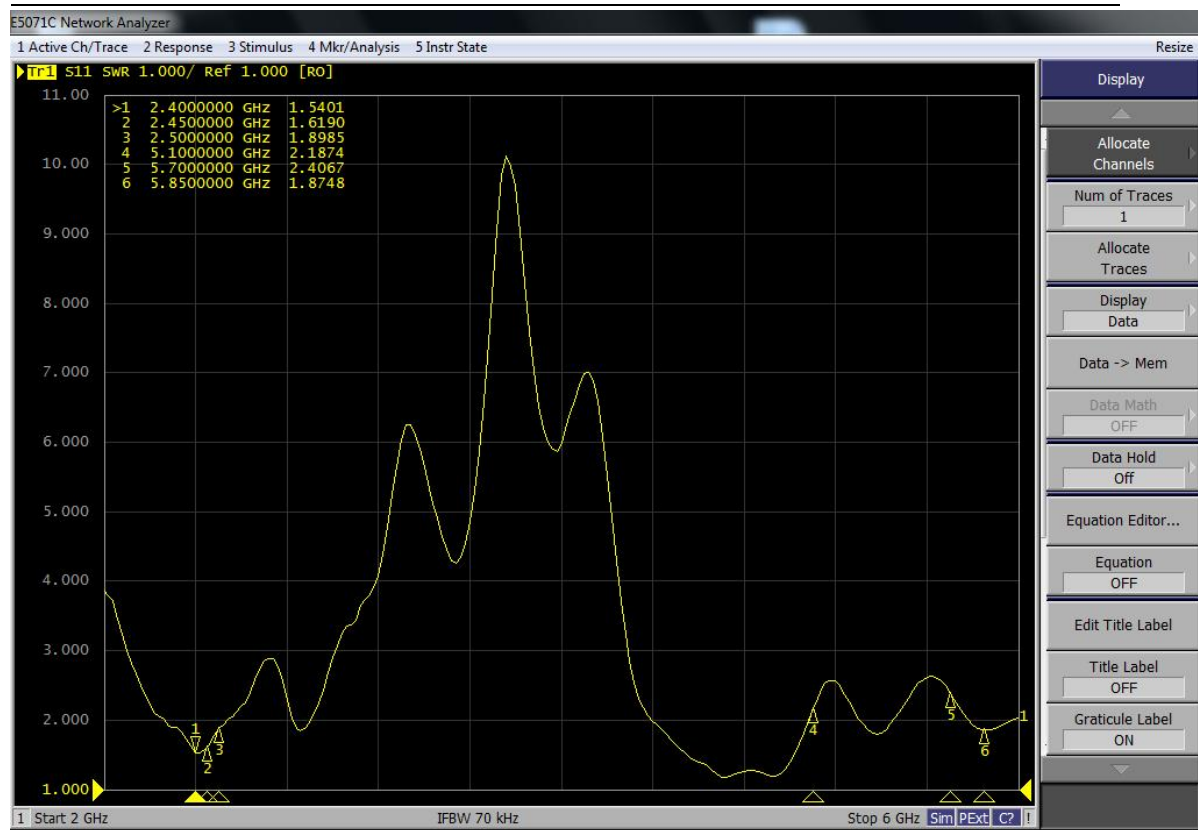
Environment:	Equipment:
Temperature: 10℃——+30℃	Network Analyzer: KEYSIGHT E5071C
Humidity: ≤80% (+40℃)	Multi-probe microwave anechoic
Atmospher: 750mmkg±30mmkg	chamber

4.22 Test Data for Electrical Performance:

4.22.1 S11 of the Antenna:

Marker (MHZ)	2400	2450	2500	5100	5700	5850
Returnloss	-19.39	-20.24	-16.99	-8.03	-8.24	-16.75
VSWR	1.27	1.23	1.32	2.21	2.10	1.27



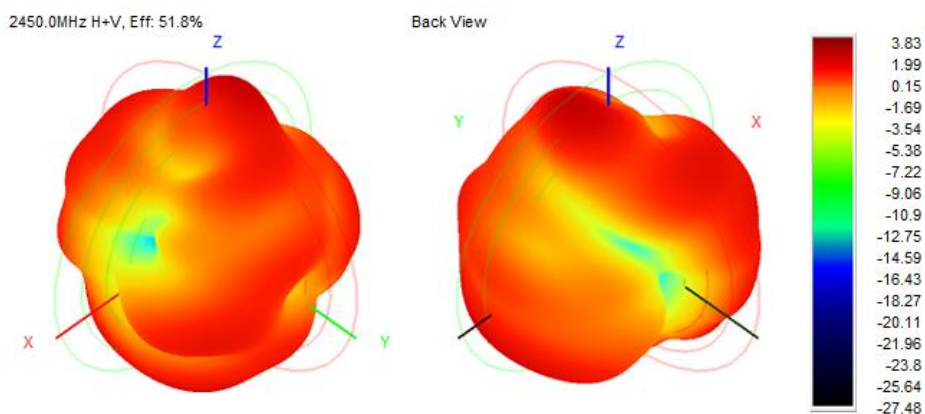


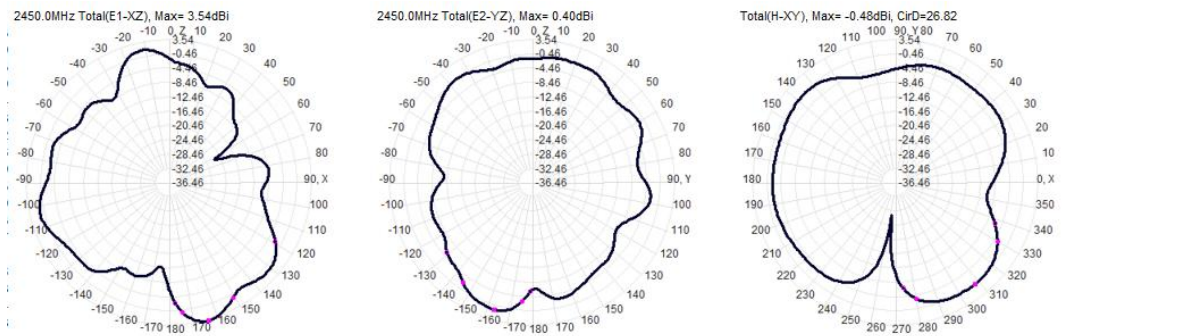
4. 22. 2 Passive gain、 efficiency and Radiation Pattern:

Marker (MHz)	2400	2450	2500	5700	5750	5800	5850
Gain (dBi)	2.49	3.83	3.37	5.33	4.94	4.86	4.92
Efficiency (%)	47.5	51.7	56.0	53.2	51.8	48.1	49.1

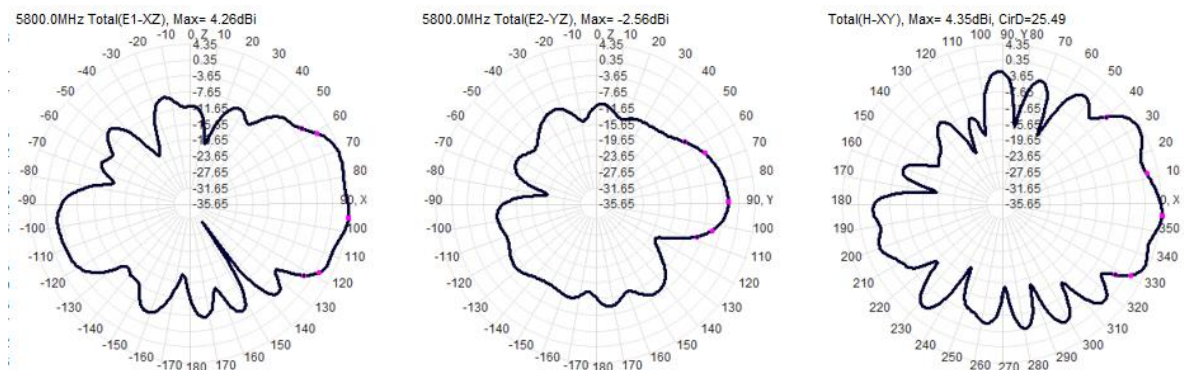
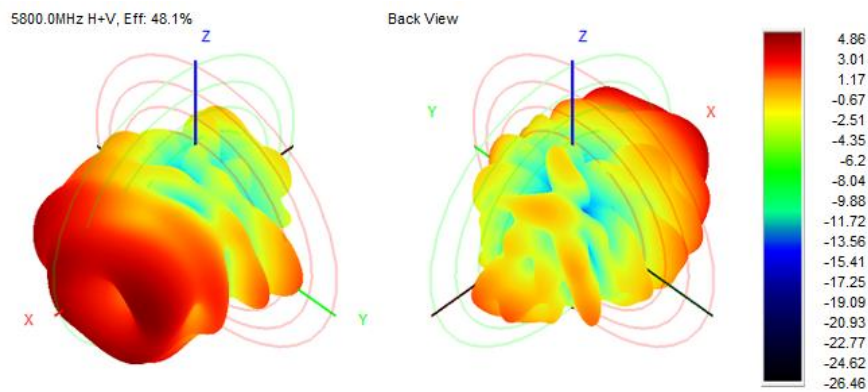
Radiation Pattern 2450MHz

@2450MHz





5800 MHz:

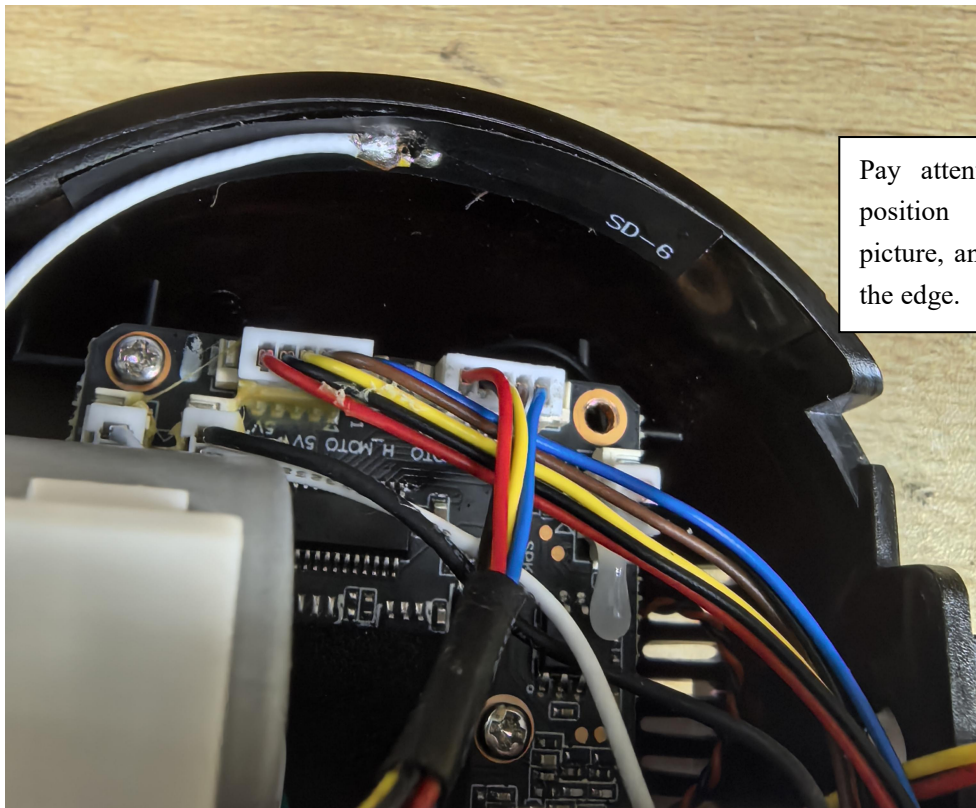




4.22.4 Antenna active data sheet:

protocol mode	bandwidth rate	channel	TRP	TIS	Remark
802.11b 2.4G	11M	1	16.37	-80.81	
		6	17.17	-83.38	
		11	17.65	-83.93	
802.11g 2.4G	54M	1	14.2	-66.94	
		6	15.59	-69.40	
		11	15.75	-70.43	
802.11n 2.4G	MCS7	1	14.36	-65.08	
		6	15.42	-68.07	
		11	15.51	-68.24	
802.11a 5.8G	54M	149	14.03	-73.31	
		157	13.67	-73.27	
		165	14.67	-73.90	
Note: SD-6,low loss coaxial line					

4.22.5 Antenna location



Pay attention to the pasting position as shown in the picture, and paste it flush with the edge.



5. Product Packaging

Manner of packing:

Packed in self sealed bags, 200 pcs each.

6. Document Resume

Document No.	
Release Date	2025/12/03
Author	XiofengZeng
Review	LiMing

Revised History

Date	Version	Revised Record
2025/12/03	1.00	New Project