



Shenzhen Shuodian Electronic Technology Co.,Ltd
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SPECIFICATION

for

K34-130L 2.4-5.8G WiFi antenna

Customer No.

Product No.

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

Author: XiaofengZeng Review: Liming

Release Date: 2025.10.17

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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 K34-130L WiFi antenna

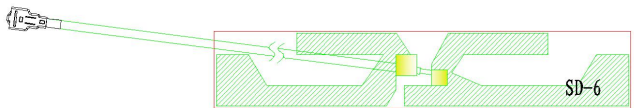
2.2 Operating temperature range

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	K34-130L
2	Operating Frequency Band	2400-2500MHZ 5100-5900MHZ
3	VSWR	≤ 2.0
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 01.13 L=70 white low loss

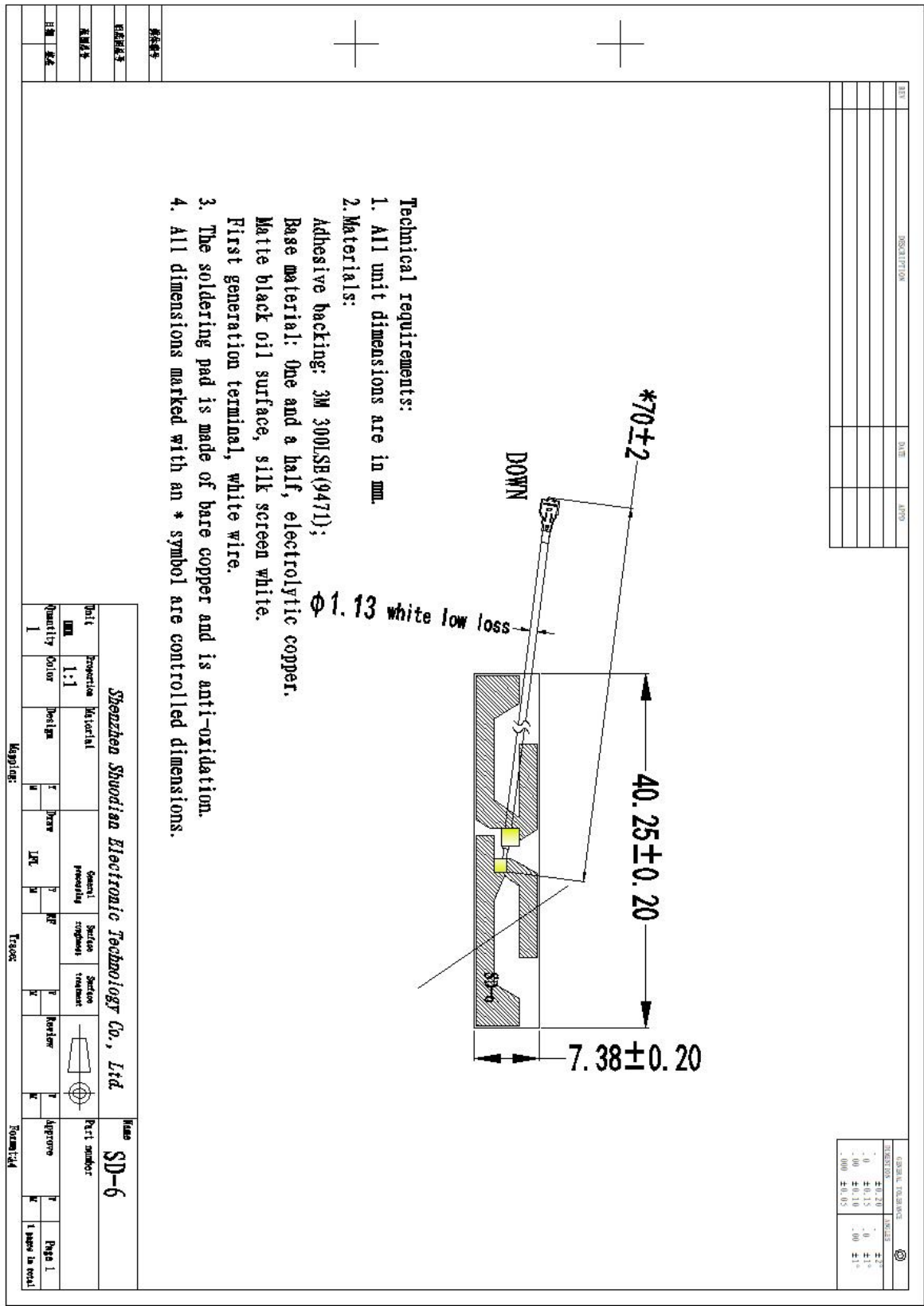
4.12 Apperance

Good appearance without scars 、 dirts、 protuberances, etc.

4.13 Antenna Picture and Structure Dimension

Productdrawings:

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4.2 Electric Performance

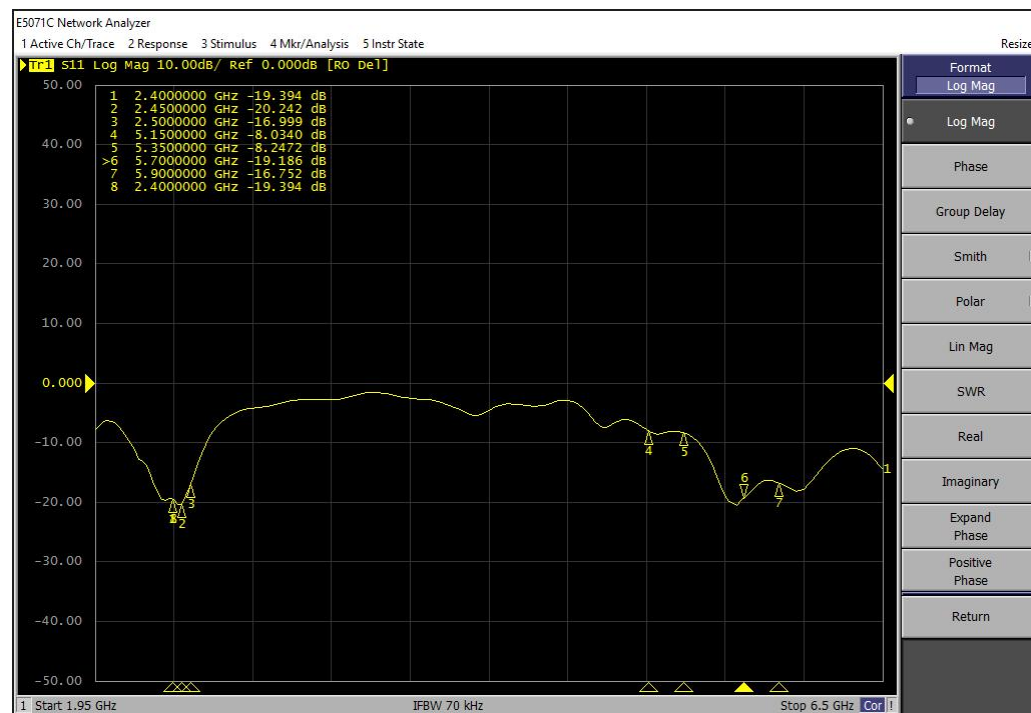
4.21 Test condition

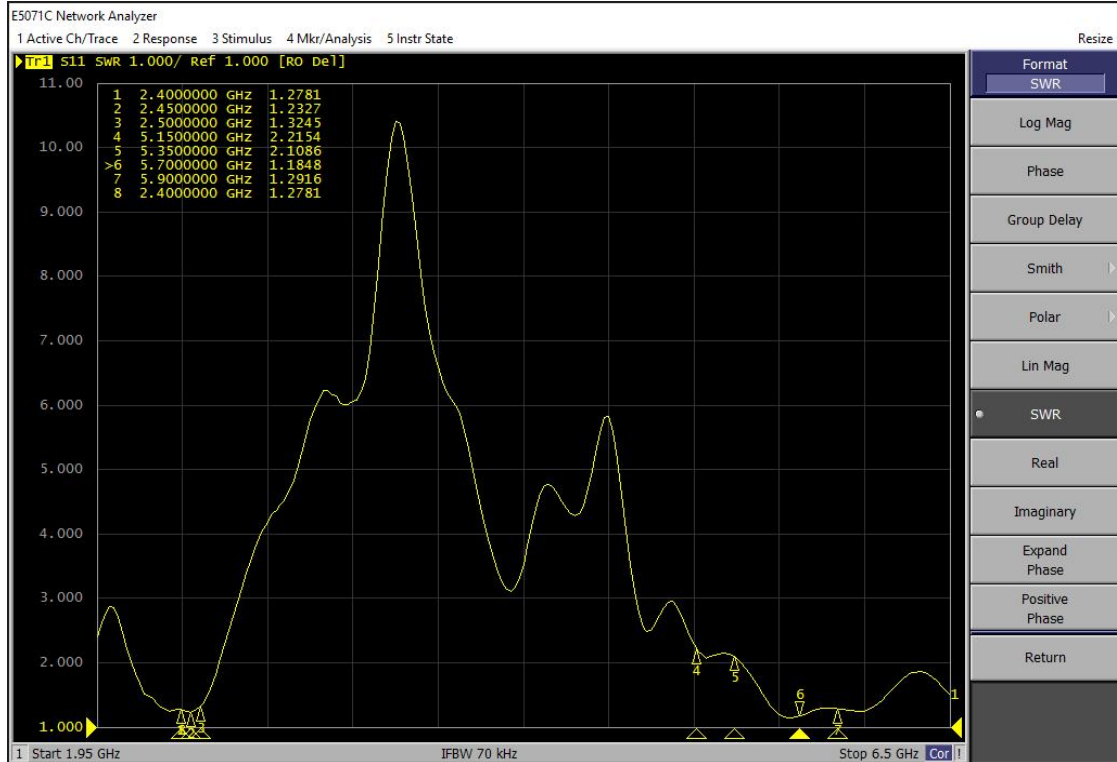
Environment:	Equipment:
Temperature: 10℃——+30℃	Network Analyzer: KEYSIGHT E5071C
Humidity: ≤80% (+40℃)	Multi-probe microwave anechoic chamber
Atmospher: 750mmkg±30mmkg	

4.22 Test Data for Electrical Performance:

4.22.1 S11 of the Antenna:

Marker(MHZ)	2400	2450	2500	5150	5350	5700	5900
Returnloss	-19.39	-20.24	-16.99	-8.03	-8.24	-19.18	-16.75
VSWR	1.27	1.23	1.32	2.21	2.10	1.29	1.27



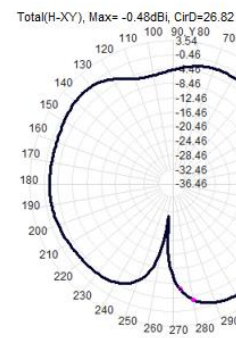
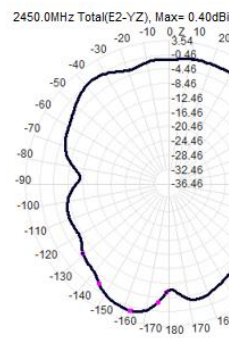
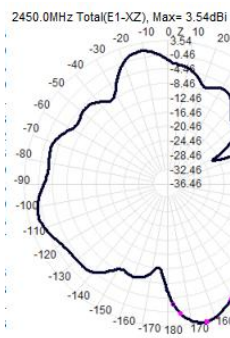
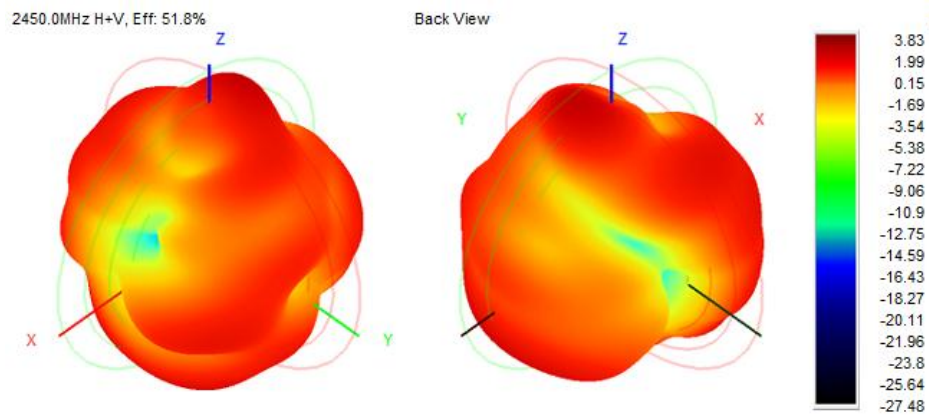


4. 22. 2 Passive gain、 efficiency and Radiation Pattern:

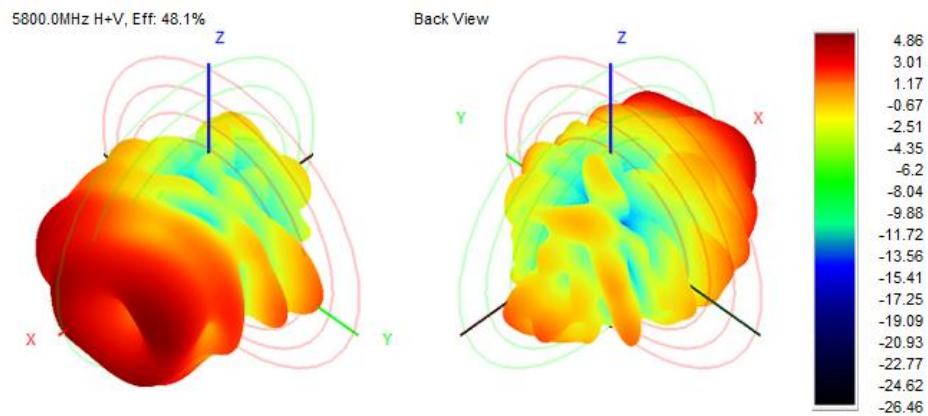
Frequency (MHz)	2400	2450	2500	5700	5750	5800	5850
Gain (dBi)	2.49	3.83	3.37	5.33	4.94	4.86	4.92
Efficiency (%)	47.5	51.7	56.0	53.2	51.8	48.1	49.1

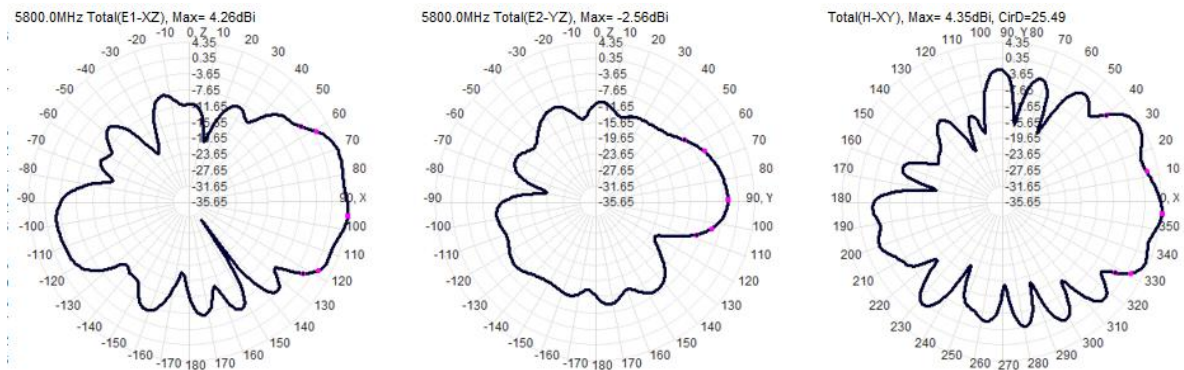
Radiation Pattern 2450MHz

2450 MHz:



5800 MHz:

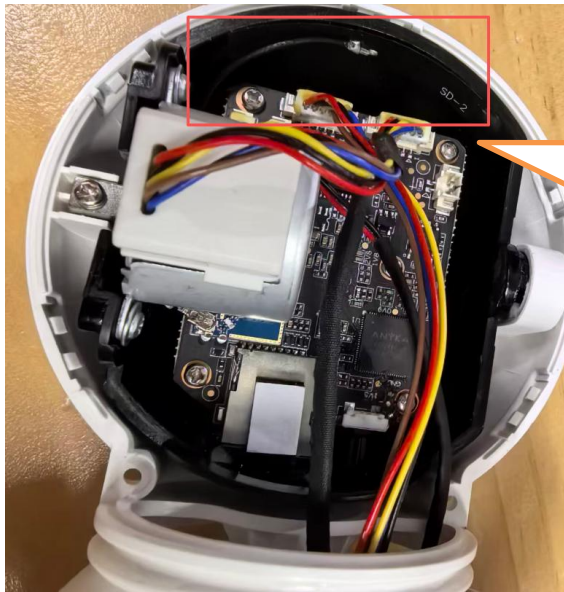




4.22.4 Antenna active data sheet:

protocol mode	bandwidth rate	channel	TRP	TIS	Remark
802.11b 2.4G	11M	1	15.95	-80.02	
		6	16.97	-79.44	
		11	17.6	-78.55	
802.11g 2.4G	54M	1	13.5	-66.22	
		6	14.52	-67.79	
		11	15.06	-67.24	
802.11n 2.4G	MCS7	1	13.46	-65.18	
		6	14.49	-66.28	
		11	15.02	-65.4	
802.11a 5.8G	54M	149	13.72	-73.81	
		157	12.31	-73.16	
		165	15.35	-73.95	
Note: The motherboard’ s crystal oscillator and clock are supplied with magnetic beads.					

4.22.5 Antenna location



Antenna pasting
position
Align it with the top
edge here

5. Product Packaging

Manner of packing:

Packed in self sealed bags, 200 pcs each.



6. Document Resume

Document No.	
Release Date	2025/10/17
Author	XiofengZeng
Review	LiMing

Revised History

Date	Version	Revised Record
2025/10/17	1.00	New Project