



Shenzhen Shuodian Electronic Technology Co.,Ltd
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SPECIFICATION

for

K34P WiFi antenna

Customer No.

Product No.

SD-1-FPC-80MM

Author: XiaofengZeng Review: Liming

Release Date: 2025.12.01

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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 K34P 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	K34P
2	Operating Frequency Band	2400-2500MHZ 5100-5900MHZ
3	VSWR	≤ 3.23
4	Impedance	50Ω
5	Antenna Type	Monopole
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=80 black

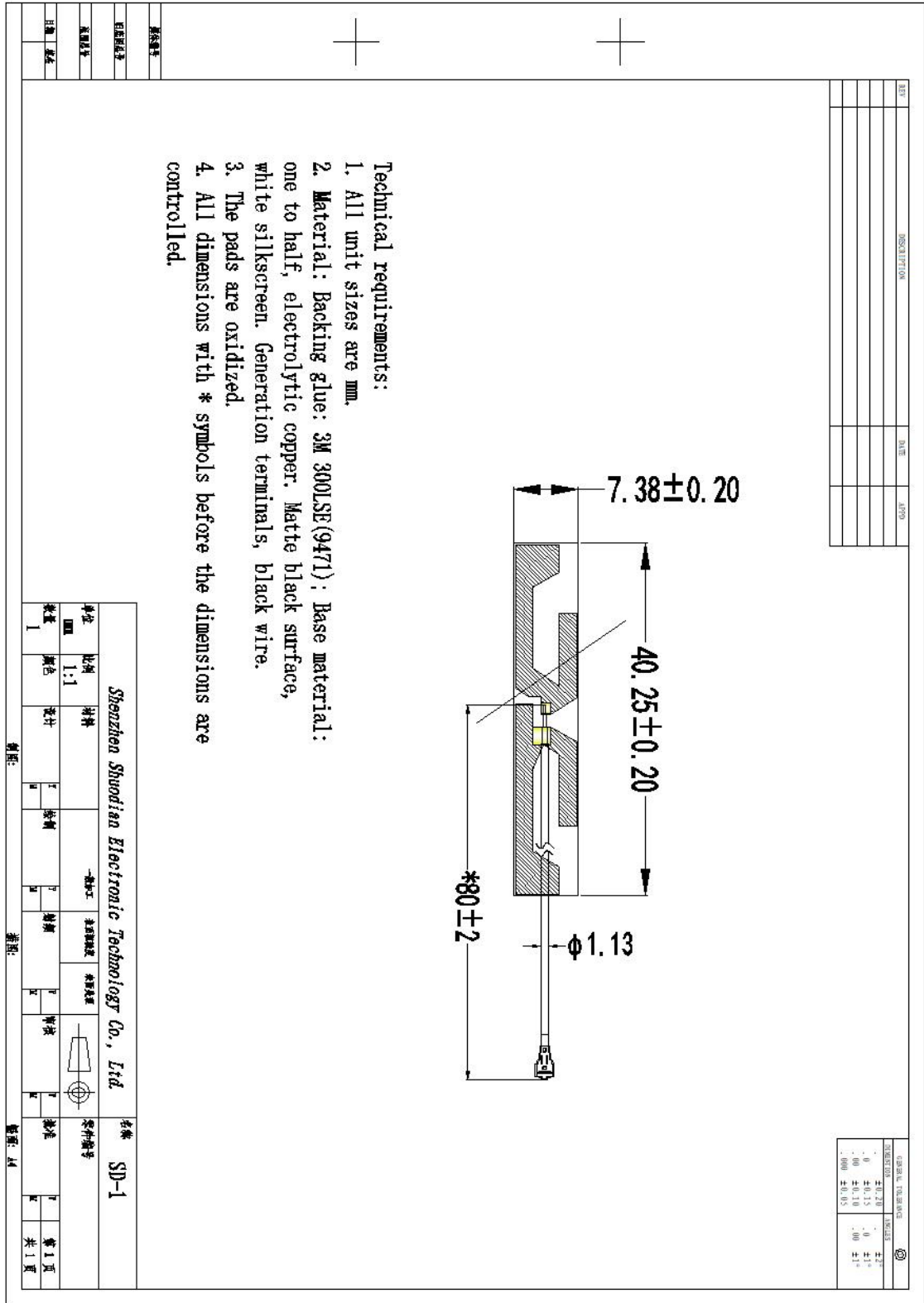
4.12 Apperance

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

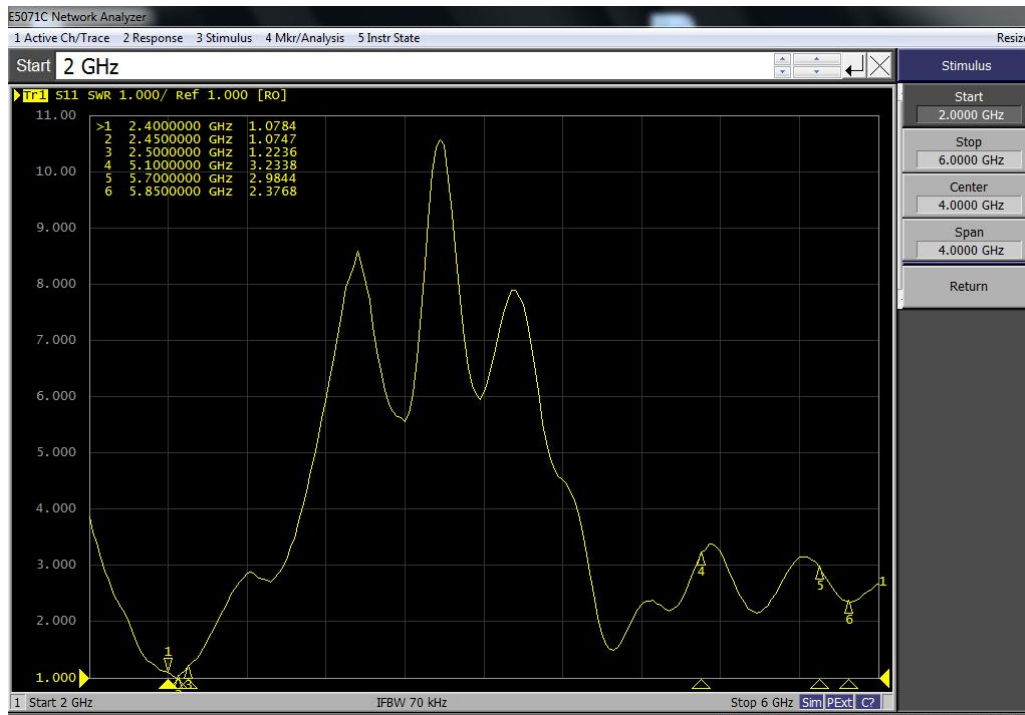
Environment:	Equipment:
Temperature: 10℃——+30℃	Network Analyzer: KEYSIGHT E5071C
Humidity: ≤80% (+40℃)	Multi-probe microwave anechoic
Atmospher: 750mmkg±30mmkg	chamber

4.22 Test Data for Electrical Performance:

4.22.1 S11 of the Antenna:

Marker (MHZ)	2400	2450	2500	5100	5700	5850
Returnloss	-25.19	-34.58	-20.72	-5.63	-6.01	-7.79
VSWR	1.07	1.07	1.22	3.23	2.98	2.37





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

Marker (MHz)	2400	2450	2500	5150	5350	5500	5700	5850
Gain (dBi)	3.15	4.33	4.43	4.95	5.85	6.56	6.53	6.68
Efficiency (%)	50.20	51.37	52.43	47.01	49.03	44.93	42.11	40.19

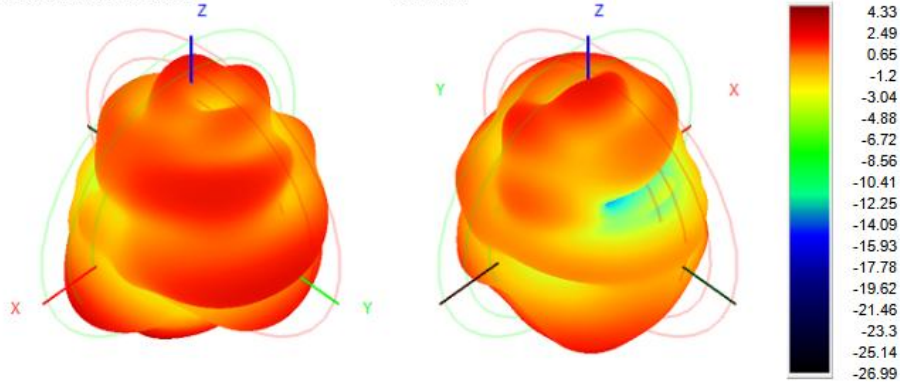
Radiation Pattern 2450MHz

2450 MHz:

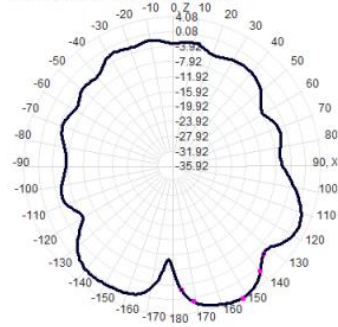


2450.0MHz H+V, Eff: 51.4%

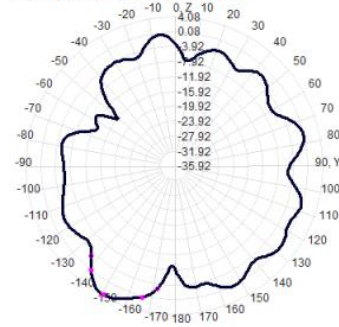
Back View



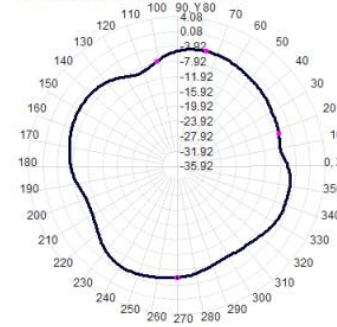
2450.0MHz Total(E1-XZ), Max= 4.08dBi



2450.0MHz Total(E2-YZ), Max= 3.40dBi



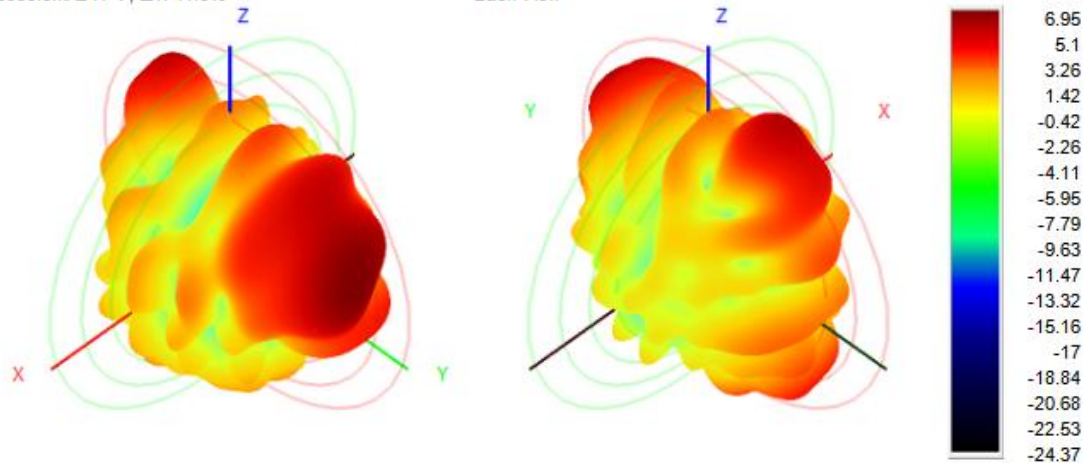
Total(H-XY), Max= -4.25dBi, CirD=5.86

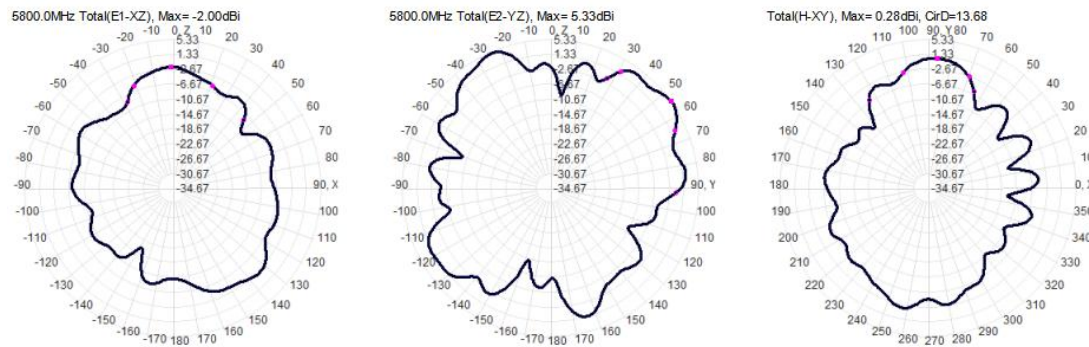


5800 MHz:

5800.0MHz H+V, Eff: 41.6%

Back View



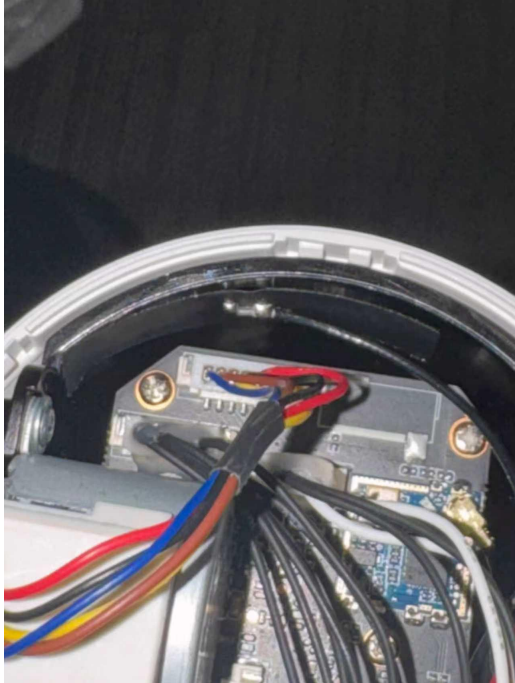


4.22.3 Antenna active data table

协议模式	带宽速率	信道	TRP	TIS	备注
802.11b 2.4G	11M	1	18.2	-75.4	
		6	17.09	-77.55	
		11	16.97	-76.63	
802.11g 2.4G	54M	1	14.4	-67.58	
		6	14.0	-65.97	
		11	14.98	-67.08	
802.11n 2.4G	MCS7	1	14.72	-66.26	
		6	14.21	-65.58	
		11	14.86	-65.99	
802.11a 5.8G	54M	149	13.86	-74.33	
		157	12.71	-73.0	
		165	13.32	-73.5	



4.22.4 Antenna location



Align the top and left edges as shown in the picture and paste the antenna

5. Product Packaging

Manner of packing:

Packed in self sealed bags, 200 pcs each.



6. Document Resume

Document No.	
Release Date	2025/12/01
Author	XiofengZeng
Review	LiMing

Revised History

Date	Version	Revised Record
2025/12/01	1.00	New Project