



Shenzhen Shuodian Electronic Technology Co.,Ltd
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SPECIFICATION

for

K32/K33 2.4-5.8G WIFI FPC antenna

Customer No.

Product No.

SD-2-FPC-80MM

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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 **K32/K33** 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	antenna
2	Operating Frequency Band	2400-2500MHZ
3	VSWR	≤ 2.0
4	Impedance	50Ω
5	Antenna Type	Monopole
6	Gain	3.1dBi
7	Efficiency	$\geq 50\%$
8	Antenna composition	FPC+Cable
9	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

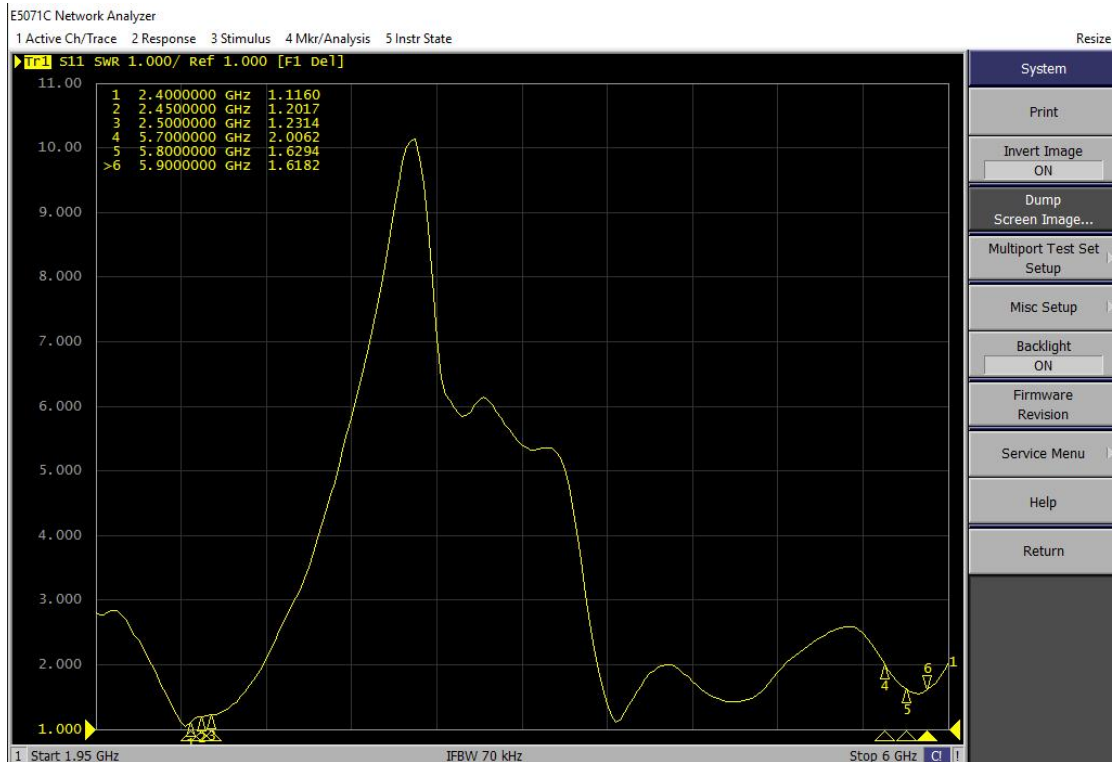
Environment:	Equipment:
Temperature: 10℃——+30℃	Network Analyzer: KEYSIGHT E5071C
Humidity: ≤80% (+40℃)	Multi-probe microwave anechoic
Atmospher: 750mmkg±30mmkg	chamber

4.22 Test Data for Electrical Performance:

4.22.1 S11 of the Antenna:

Marker (MHZ)	2400	2450	2500	5700	5800	5900
Returnloss	-24.91	-20.53	-19.76	-9.38	-12.29	-12.46
VSWR	1.11	1.20	1.23	2.00	1.62	1.61





4. 22. 2 Passive gain、 efficiency :

Marker (MHz)	2400	2450	2500
Gain (dBi)	3.10	2.93	3.06
Efficiency (%)	65.5	74.1	65.1



4. 22. 3 Radiation Pattern

@2450MHz

