



Shenzhen Shuodian Electronic Technology Co.,Ltd
Page number 1-10

SPECIFICATION

for

HT306B-2.4G WIFI Antenna

Customer No.

Product No.

ANB-HT306B-2.4G WIFI Antenna-FPC

Author: XiaofengZeng Review: Liming

Release Date: 2024.05.13

ShenZhen Shuodian Electronic Technology Co., Ltd

508 West, building 64, Jinlong Industrial City, majialong, Nanshan District, Shenzhen

E-mail: sz_shuodian@163.com

Tel: 0755-86006322

Fax: 0755-86006323

Shenzhen Shuodian Electronic Technology Co.,Ltd



Contents

SPECIFICATION	1
SHENZHEN SHUODIAN ELECTRONIC TECHNOLOGY CO., LTD	1
CONTENTS	2
1. BILATERAL CONFIRMATION PAGE	3
2. GENERAL	4
3. GENERAL PRODUCT SPECIFICATIONS	4
4. SPECIFICATION DETIALS	5
4.1 MECHANICAL PROPERTIES	5
4.2 ELECTRIC PERFORMANCE	7
5. PRODUCT PACKAGING	9
6. DOCUMENT RESUME	10



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 HT306B 2.4G 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	HT306B
2	Operating Frequency Band	2400MHz-2500MHz
3	VSWR	≤ 2.0
4	Gain	2dBi
5	Impedance	50Ω
6	Antenna Type	PIFA
7	Antenna composition	FPC
8	Entity Picture	



4. Specification Detials

4.1 Mechanical Properties

4.11 Product Composition:

No.	Material	Size (MM)
1	FPC	15.66*53.35 BLACK
2	CABLE	IPEX-1 ϕ 1.13 L=80 BLACK

4.12 Apperance

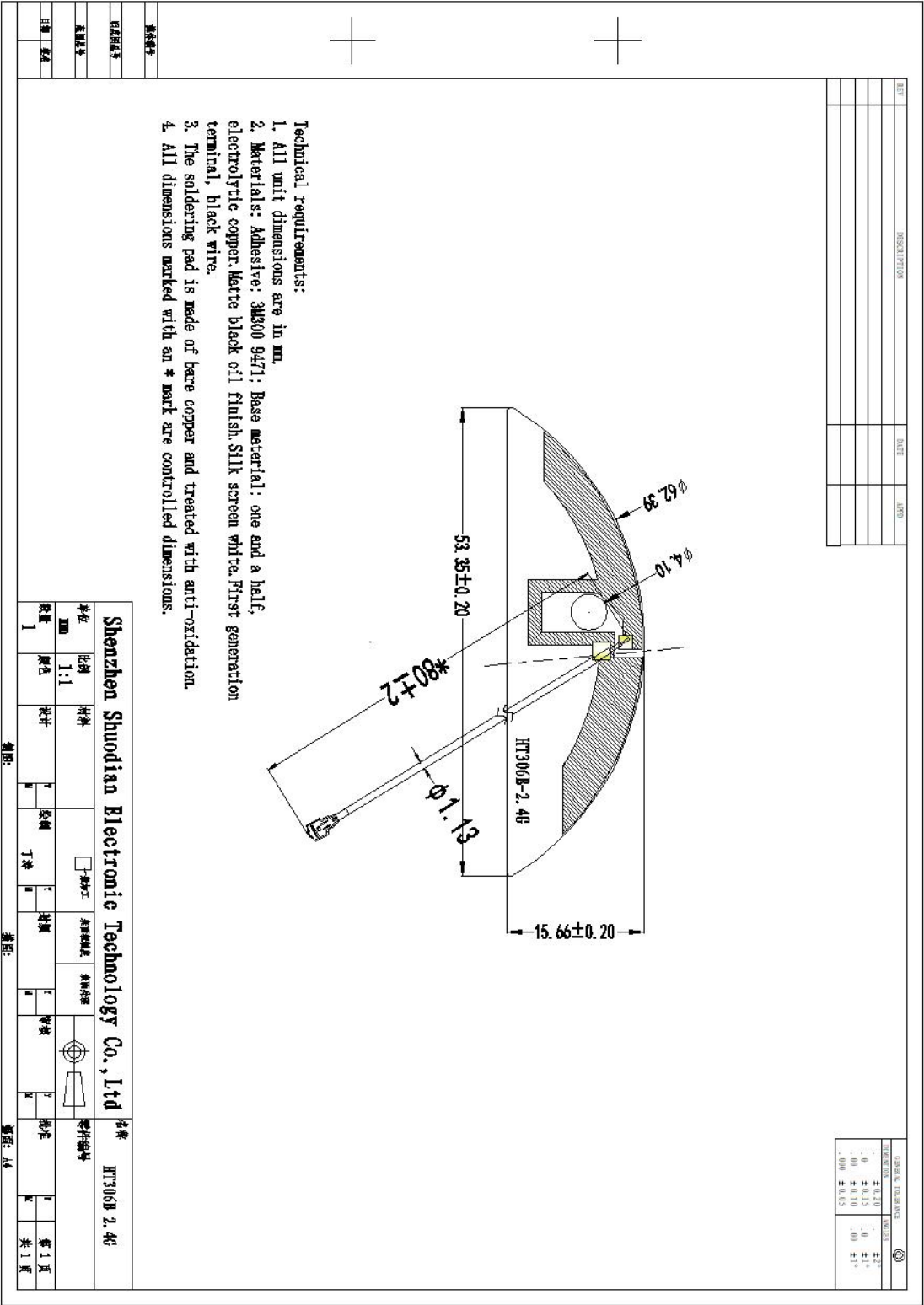
Good appearance without scars 、 dirts、 protuberances, etc.

4.13 Antenna Picture and Structure Dimension

Refer to product drawings:



Product drawings:





4.2 Electric Performance

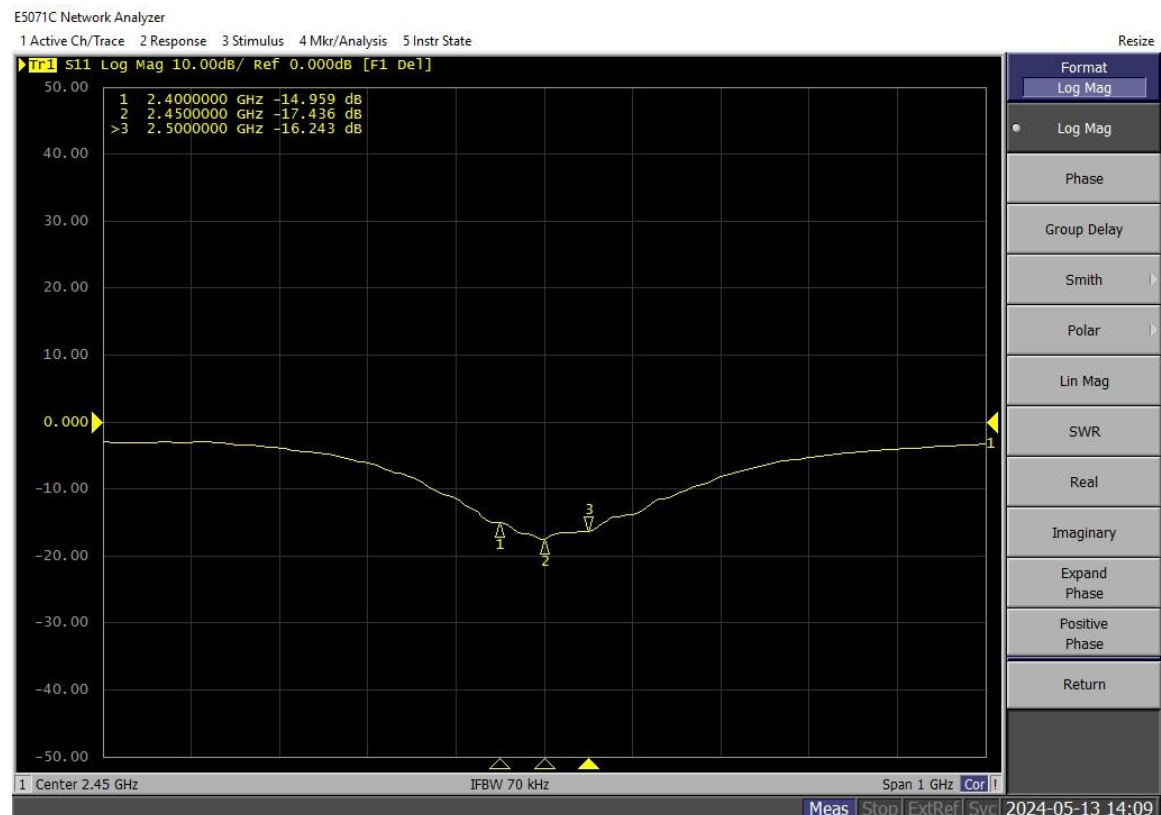
4.21 Test condition

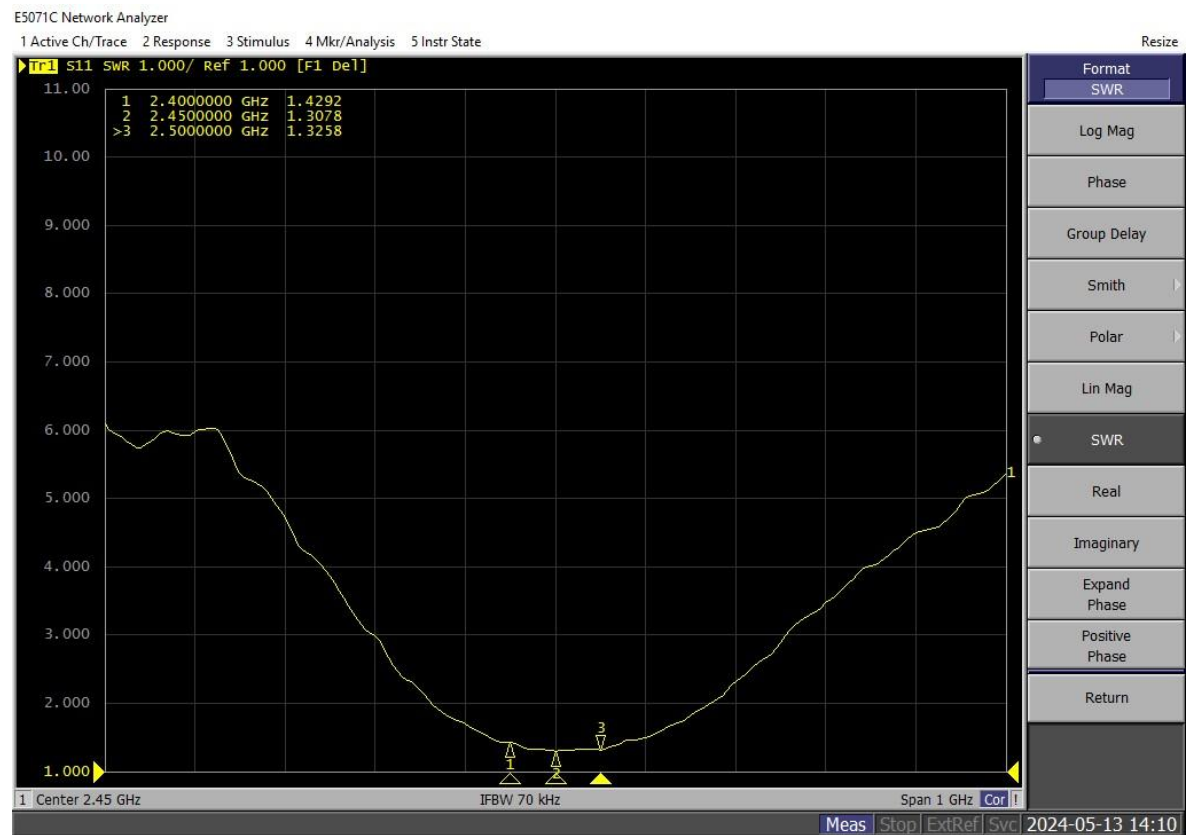
Environment:	Equipment:
Temperature: 10℃——+30℃	Network Analyzer:
Humidity: ≤80% (+40℃)	KEYSIGHT E5071C
Atmospher: 750mmkg±30mmkg	Multi Probe full Anechior Chamber

4.22 Test Data for Electrical Performance:

4.22.1 S11 of the Antenna:

Marker (MHZ)	2400	2450	2500
Returnloss	-14.95	-17.43	-16.24
VSWR	1.42	1.30	1.32



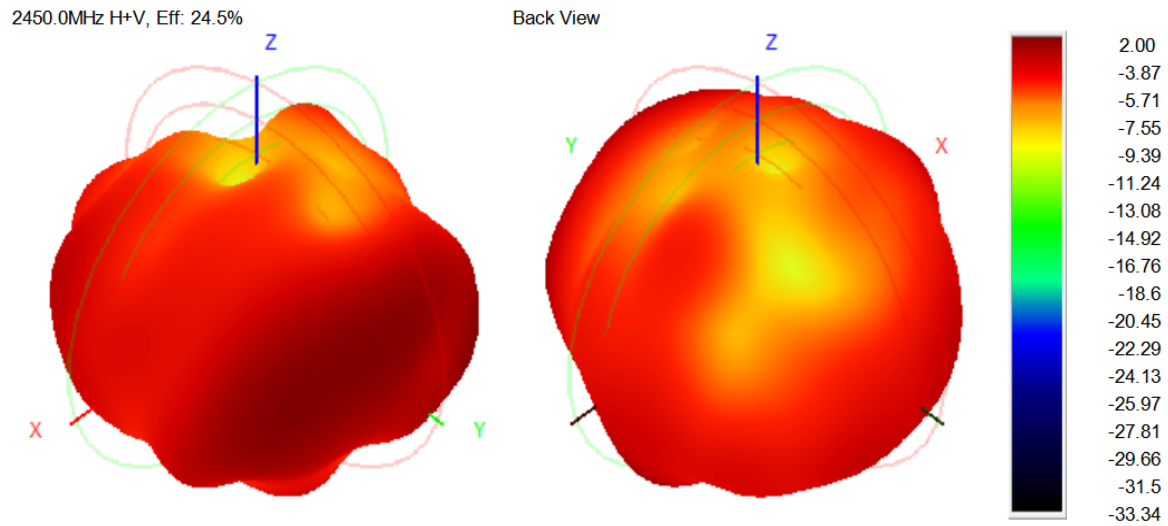


4.22.2 Passive gain、 efficiency and Radiation Pattern:

频率 (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Gain (dBi)	1.73	1.65	1.72	1.73	1.96	2.0	1.93	1.72	1.78	1.65	2.00
Efficient (%)	38.69	39.99	41.83	43.02	45.59	46.11	45.82	48.77	48.97	51.62	54.86



4.22.3 Radiation Pattern @2450MHz (dBi)



5. Product Packaging

Manner of packing:

Packed in self sealed bags, 200 pcs each.



6. Document Resume

Document No.	
Release Date	2024/05/13
Author	XiofengZeng
Review	LiMing

Revised History

Date	Version	Revised Record
2024/05/13	1.00	New Project