



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

SPECIFICATION

for

CDX2 BLE antenna

Customer No.

Product No.

YMGD-CDX2-2.4G BLE antenna-FPC

Author: XiaofengZeng Review: Liming

Release Date: 2025.02.17

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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 CDX2 2.4G BLE antenna

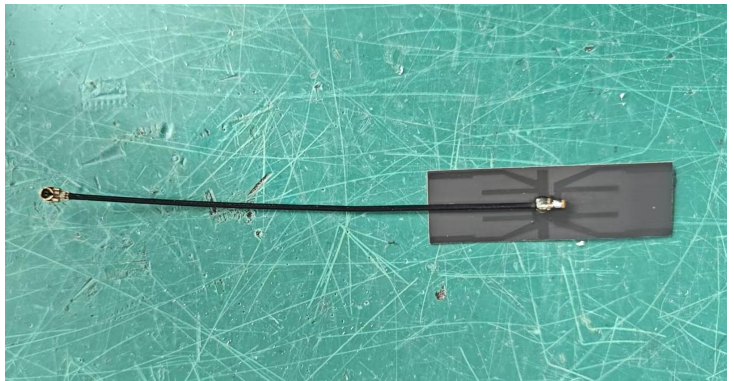
2.2 Operating temperature range

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	CDX2 2.4G BLE antenna
2	Operating Frequency Band	2400-2500MHz
3	VSWR	≤ 2.0
4	Impedance	50 Ω
5	Antenna Type	Monopole
6	Antenna composition	FPC
7	Entity Picture	



4. Specification Detials

4.1 Mechanical Properties

4.11 Product Composition:

No.	Material	Size (MM)
1	FPC	46.5*14.2 Black
2	CABLE	IPEX-1 ϕ 1.13 L=100 black

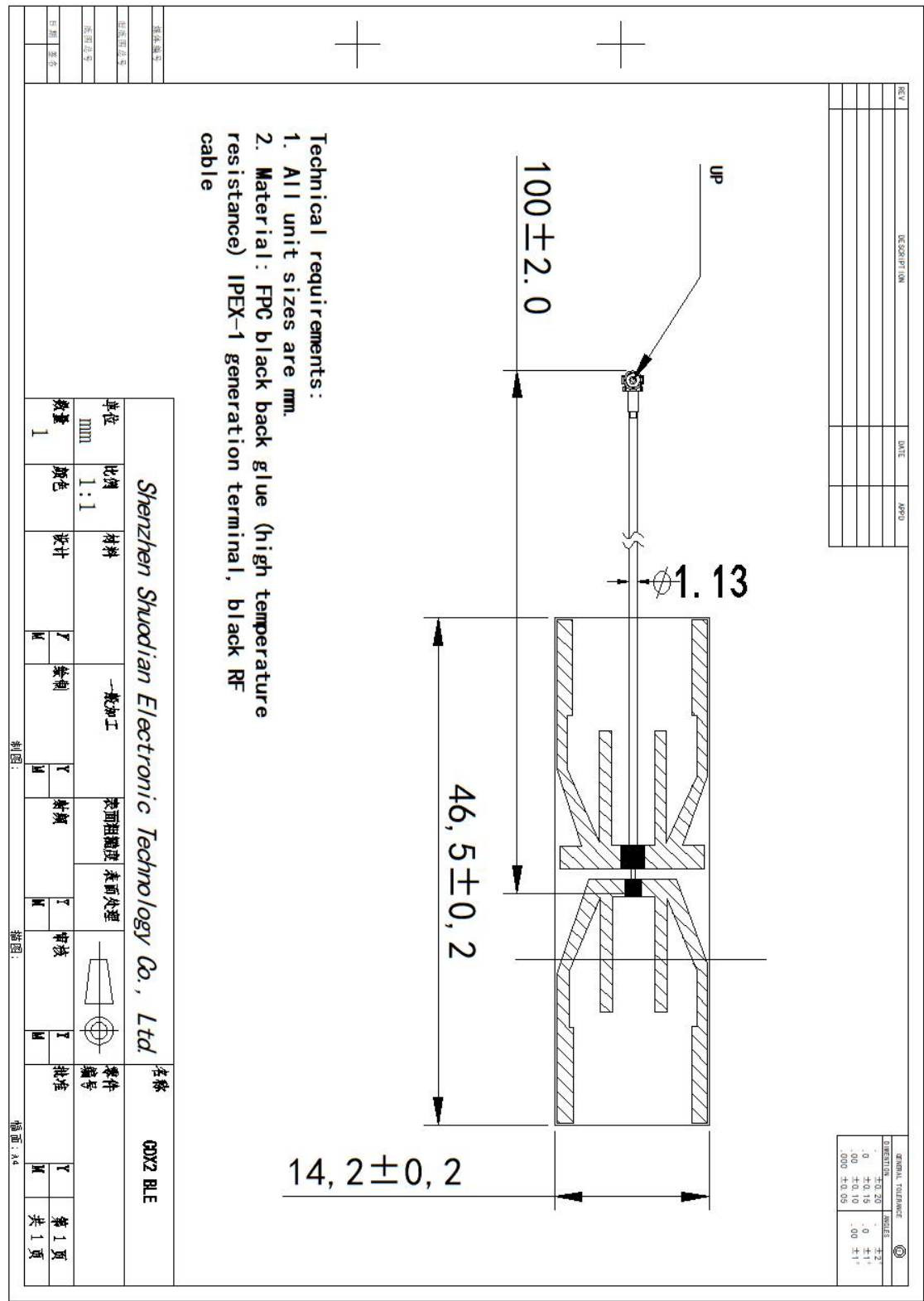
4.12 Apperance

Good appearance without scars 、 dirt、 protuberances, etc.

4.13 Antenna Picture and Structure Dimension

Productdrawings:

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4.2 Electric Performance

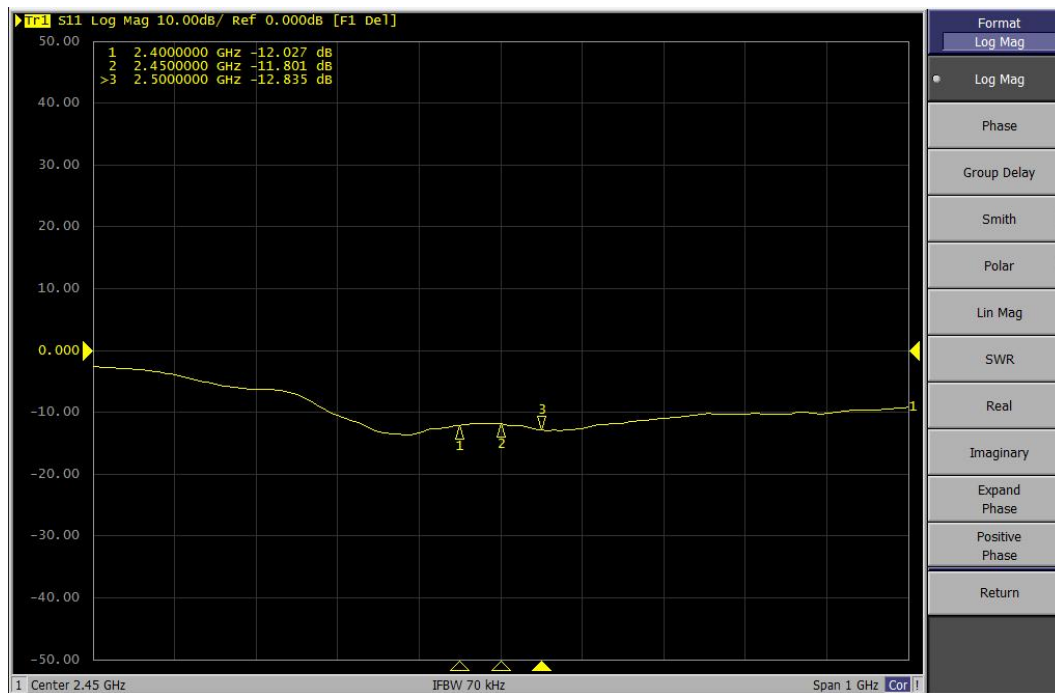
4.21 Test condition

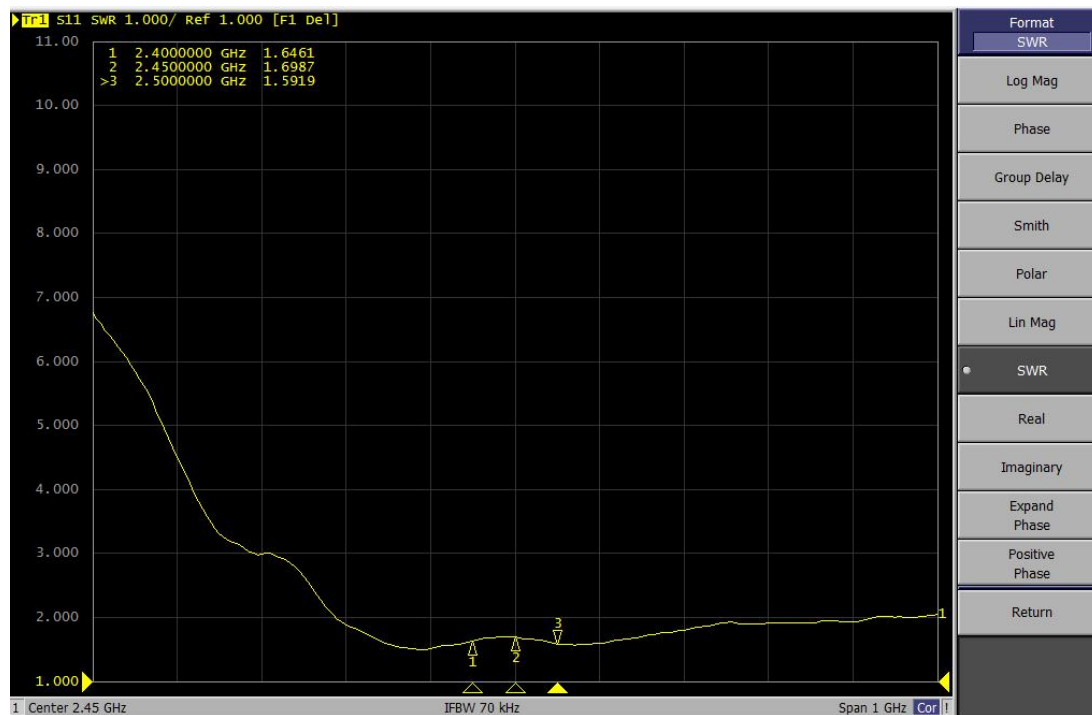
Environment:	Equipment:
Temperature: 10℃——+30℃	Network Analyzer: KEYSIGHT E5071C
Humidity: ≤80% (+40℃)	Multi-probe microwave anechoic
Atmospher: 750mmkg±30mmkg	chamber

4.22 Test Data for Electrical Performance:

4.22.1 S11 of the Antenna:

Marker (MHz)	2400	2450	2500
Returnloss	-12.03	-11.80	-12.83
VSWR	1.64	1.69	1.59





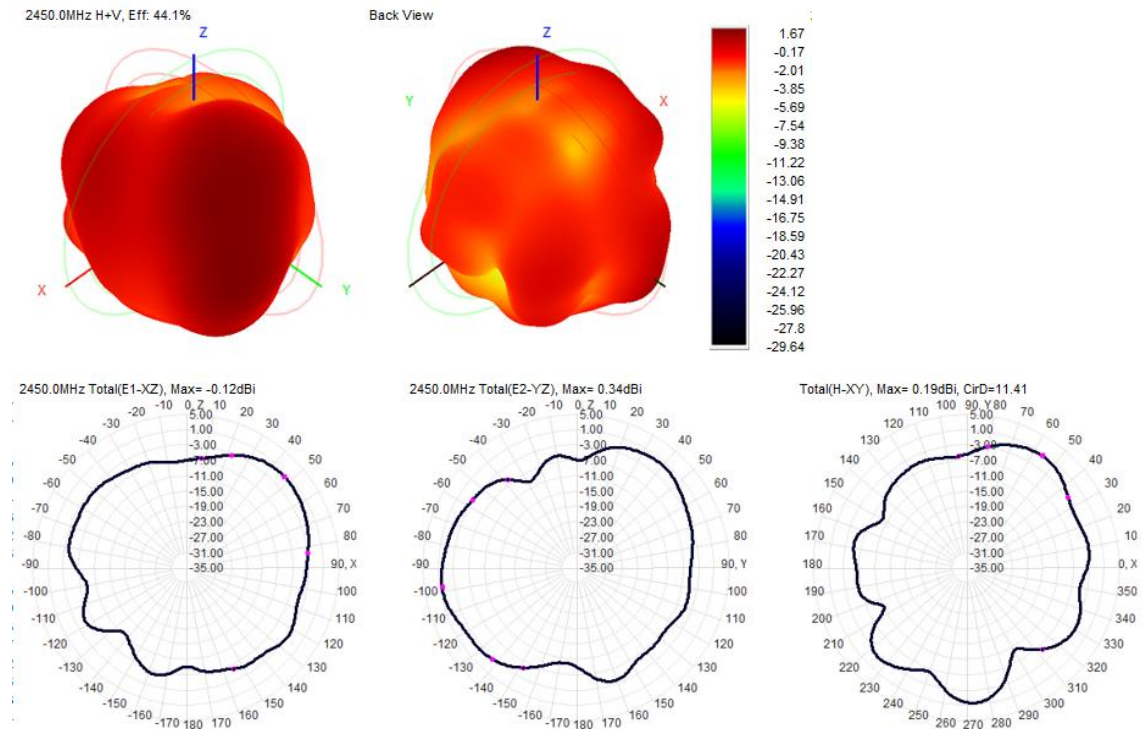
4. 22. 2 Passive gain、 efficiency and Radiation Pattern:

频率 (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Gain (dBi)	2.15	2.13	2.07	1.96	1.79	1.67	1.91	2.22	2.18	2.14	2.20
Efficienc (%)	42.9	42.9	42.1	41.9	43.2	44.1	44.6	45.9	44.8	45.2	45.8



Radiation Pattern 2450MHz

@2450MHz



5. Product Packaging

Manner of packing:

Packed in self sealed bags, 200 pcs each.



6. Document Resume

Document No.	
Release Date	2025/2/17
Author	XiofengZeng
Review	LiMing

Revised History

Date	Version	Revised Record
2025/2/17	1.00	New Project