

SPECIFICATION FOR APPROVAL

CUSTOMER NAME: Shenzhen Baseus Technology Co., Ltd

CUSTOMER P/N:

PRODUCT P/N: BS-X1-02

PRODUCT NAME: X1

Description: BS-X1-02/2.4G built-in FPC antenna

REV: A

出厂签章

SIGN	APPROVED BY	CHECKED BY	DRAMN

客户签章

SIGN	QE	R&D	PE

Contents

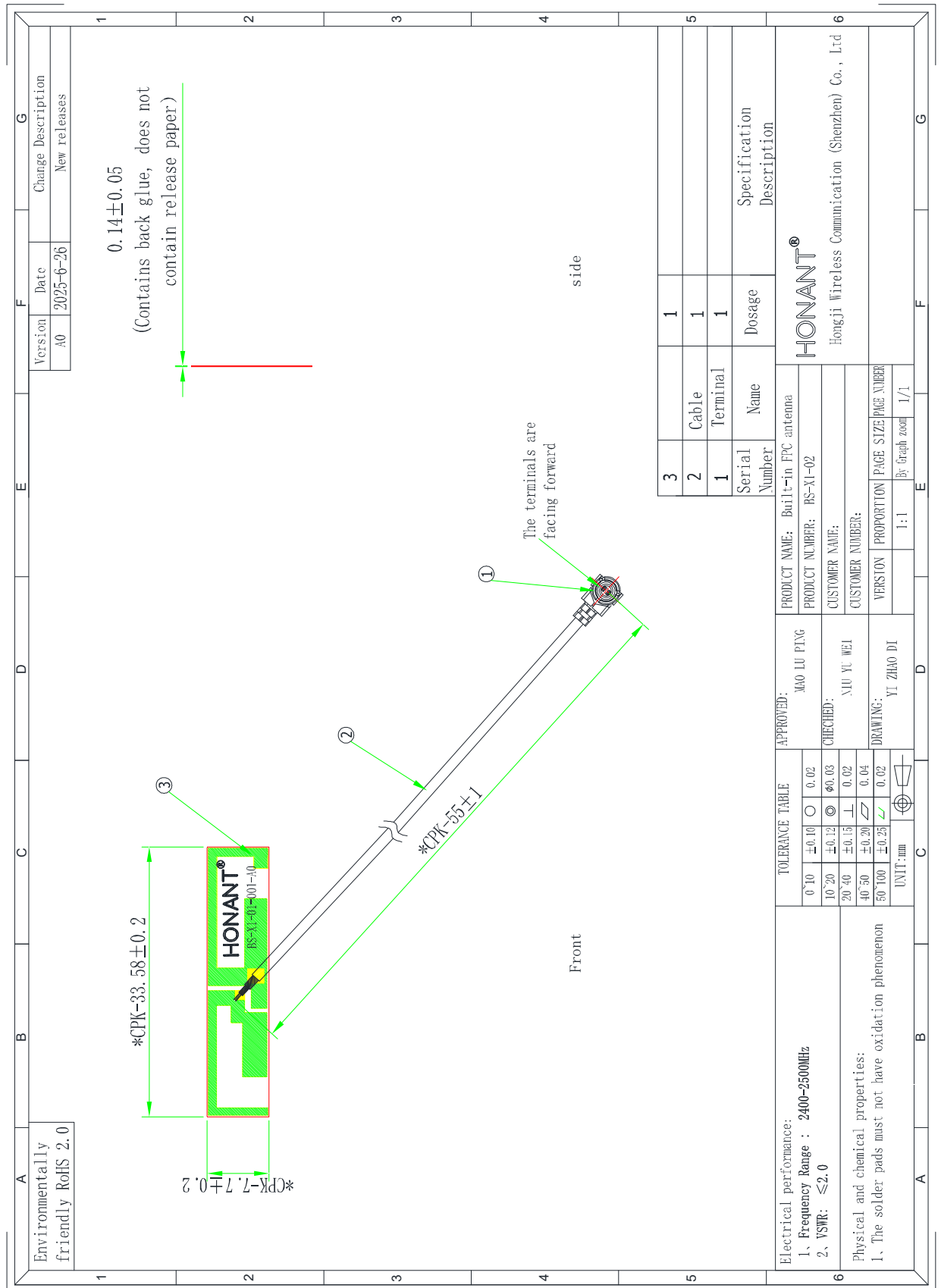
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一、 Revision History:

[illegible]

二、 Specification Table:

Main technical specifications	
Frequency Range (MHZ)	2400-2500
Impedance(Ω)	50
Gain(dBi)	4 ± 1
VSWR	≤ 2.0
Polarization	Linear
Radiation	Omni-directional
Connector Type	Cable+IPEX
Physical Properties	
Antenna cover	FPC
Operating Temp	-20℃~+70℃
Storage Temp	-20℃~+60℃



四、Packaging specifications:

Environmentally friendly RoHS 2.0

Version: A0

Date: 2025-06-26

Change Description: New releases

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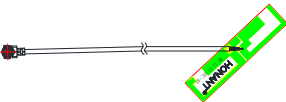
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Single product



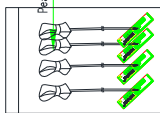
Packaging instructions for small inner bags:

- Each bag contains 2 bundles of 50pcs each, totaling 100pcs of products
- Fix the wire with pearl cotton bags/rubber bands

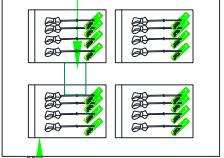
Packaging instructions for large inner bags:

- Each large bag contains 10 small bags/a total of 1000PCS of products (The number of small bags inside the large bag can be adjusted)
- Each large bag needs to be labeled with a corresponding inner bag label

Small PE bag



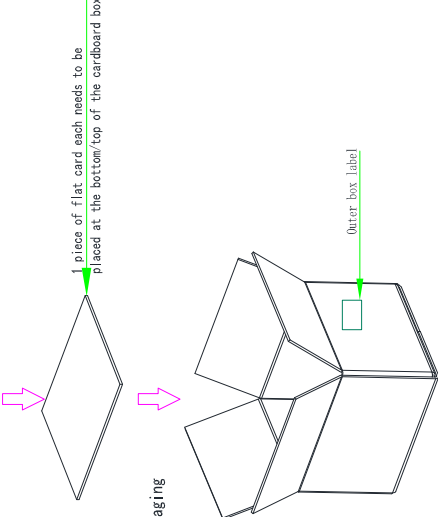
Large PE bag



Outer box packaging instructions:

- The bottom/top layer of the cardboard box needs to hold 1 flat card each,
- The outer box needs to be labeled with 1 PCS outer box label at the position shown in the diagram
- Each box contains 10 large bags/a total of 10000PCS of products (The number of large bags in the outer box can be adjusted)

Outer box packaging



Note: This packaging method is estimated
Actual shipment shall prevail

APPROVED: MAO LU PING

CHECKED: NIU YU WEI

DRAWING: YI ZHAO DI

PRODUCT NAME: Built-in FPC antenna

PRODUCT NUMBER: BS-X1-02

CUSTOMER NAME: HONANT®

CUSTOMER NUMBER: Hongji Wireless Communication (Shenzhen) Co., Ltd

VERSION: 1:1

PROPORTION: 1:1

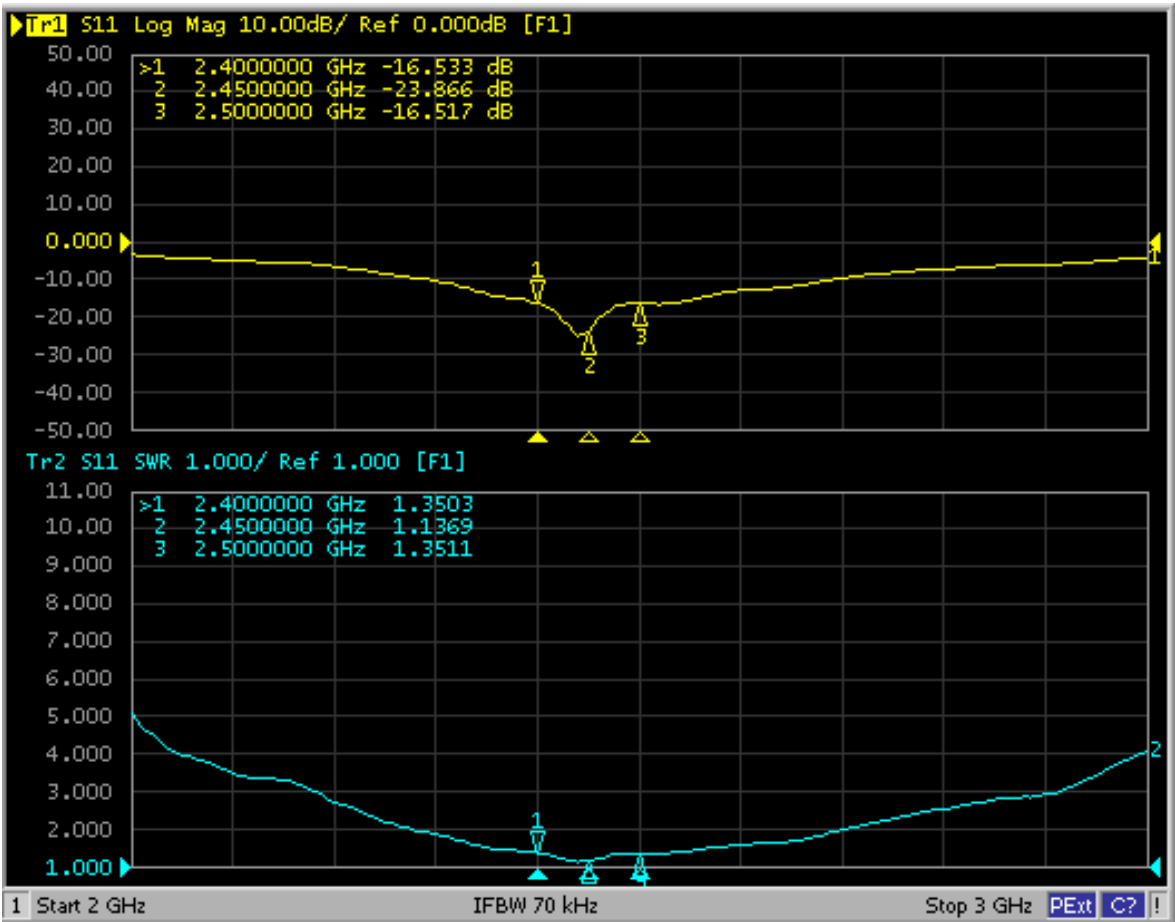
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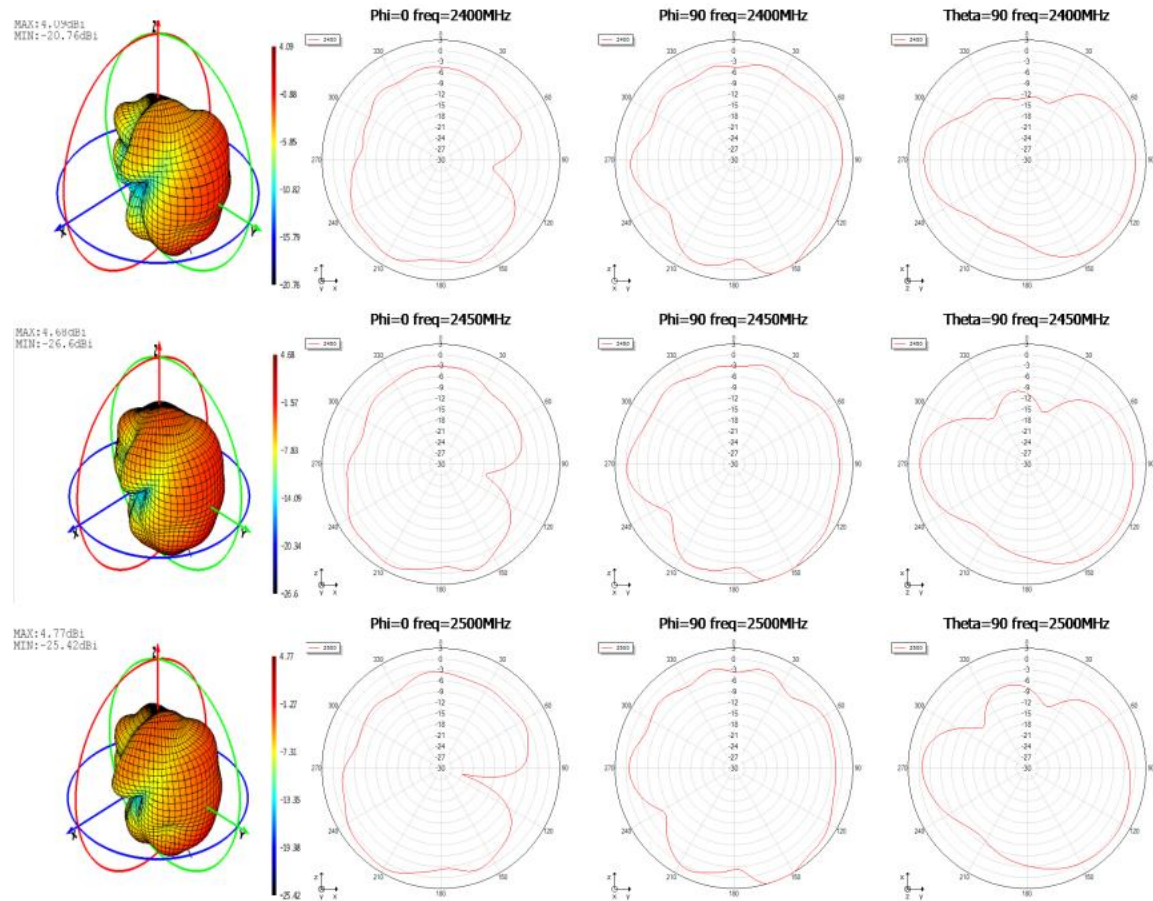
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五、Test report:

5.1: antenna S11 parameters



5.2: Passive pattern of antenna



5.3: Passive efficiency of antenna

频点MHz	增益(dBi)	效率(dB)	效率 (%)
2400	4.09	-2.13	61.17
2410	4.25	-1.96	63.67
2420	4.35	-1.89	64.78
2430	4.47	-1.98	63.37
2440	4.51	-2.07	62.09
2450	4.68	-2.06	62.21
2460	4.76	-1.85	65.29
2470	4.51	-1.91	64.43
2480	4.60	-1.91	64.47
2490	4.58	-1.83	65.63
2500	4.77	-1.97	63.56

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六、Schematic diagram of the entire machine:

