

Project: Y202205180724

Date.: 2024.07.18

Ver.: A1

Antenna SPEC

Customer name: 玥芯通Customer project: X98Q

Customer P/N: _____

B&T P/N: 79300006Spec.: Built-in antenna-2.4/5G-shrapnel-L26.7 × W4 × H10.2 ×
T0.4mm

Sealed by corporation:

compilation	verify	approval
Qiucui ping	Huchong	Liulihua

Sealed by customer:

check	verify	approval

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表单编号 Form number: B&T-QR-EN-002 版本 version: B3

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3、Product drawing

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Version	Date of modification	revise content
A0	22-06-30	
A1	24-7-17	Update and modify the size of 2 pins

stereogram

flattened diagram

Technical requirements:

1. Material: SUS 304 (3/4H, >370HV), material thickness 0.4mm;
2. Part surface electroplating (nickel plating), coating thickness: 30um~60um; Good weldability. Pass 24-hour salt spray test.
3. Important dimensions are marked with "*" (control is required for mold making, and mold acceptance must be measured).
4. The surface of the product is free of burrs, scratches, oil stains, residues, and other undesirable phenomena.
5. The maximum burr cannot exceed 0.05mm, and the knife mark does not exceed 0.10mm.
6. The depth of the printed logo does not exceed 0.05mm, and the height is 1.0-2.0mm.
7. During packaging and transportation, the product cannot be hit, scratched, or damaged.
8. The packaging and quality standards refer to the Boantong Packaging Specifications and B&T Quality Standards respectively.
9. **Your company uses blister tray packaging, which needs to be compatible with our carton (Carton specifications: 35×24×29cm/inner size)**
9. The product must meet the requirements of RoHS2.0.

name	Built-in antenna - 2.4/5G - spring - L26.7 × W4 × H10.2 × T0.4mm			
Design	Xie Meiquan	Project number	Y202205180724	
to examine		Part number	79300006	
approval		weight	quantity	proportion
1 >X	±0.05		1:1	mm
1~9.99	±0.10			
10~19.99	±0.15		Page 1	1 in total
20~39.99	±0.20		B&T	
40~	±0.30			

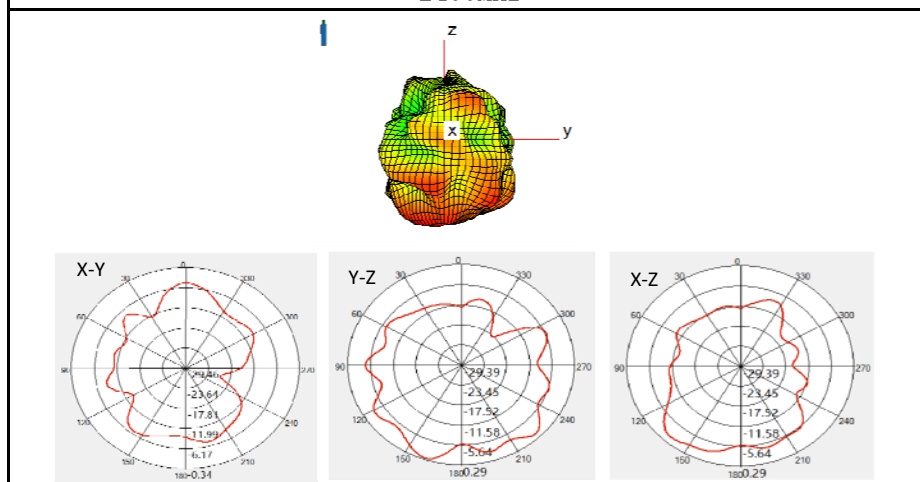
4、Properties ¶meter

Electrical parameter	
Freq Range	2400~2500MHz/5150~5850MHz
Characteristic Impedance	50 Ω
VSWR	Check the engineering seal
The Max input power	<10w
Polarization mode	Linear polarization
Radiation direction	omnidirectional
Mechanical parameter	
total length	26.7 $\pm$ 0.2mm
Salt spray test	24H
Environment parameter	
Operating Temp	-30 $^{\circ}$ C~65 $^{\circ}$ C

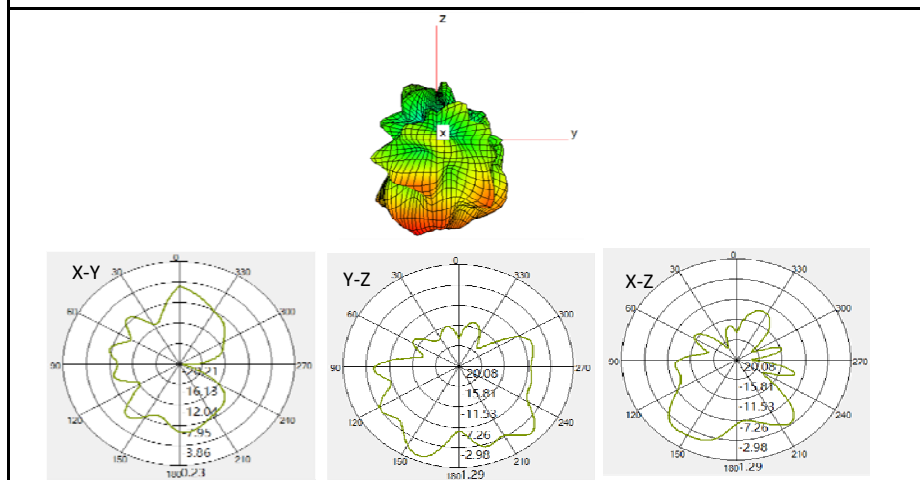
➤ Antenna direction diagram

Center Frequency	Gain (dBi)	Efficiency (%)	Efficiency (dB)
2400MHz	-0.29	19.3%	-7.1
2450MHz	0.4	22.6%	-6.5
2500MHz	2	28.1%	-5.5

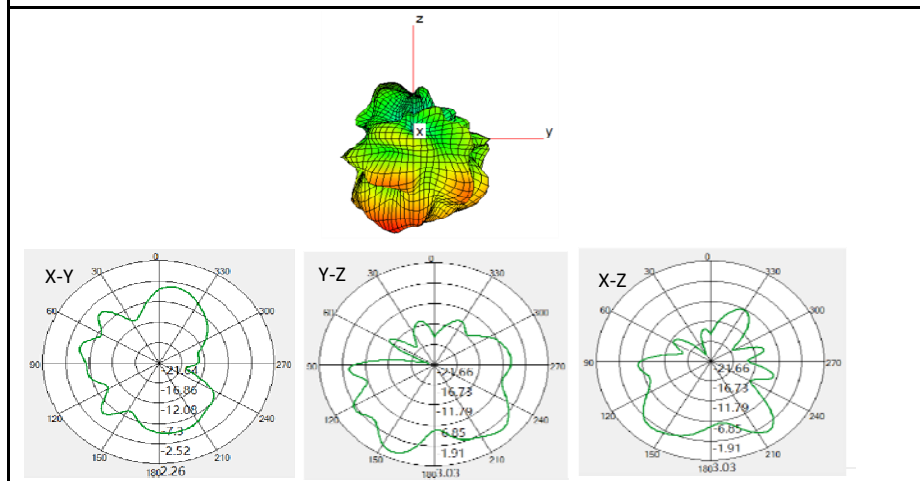
2400MHz



2450MHz



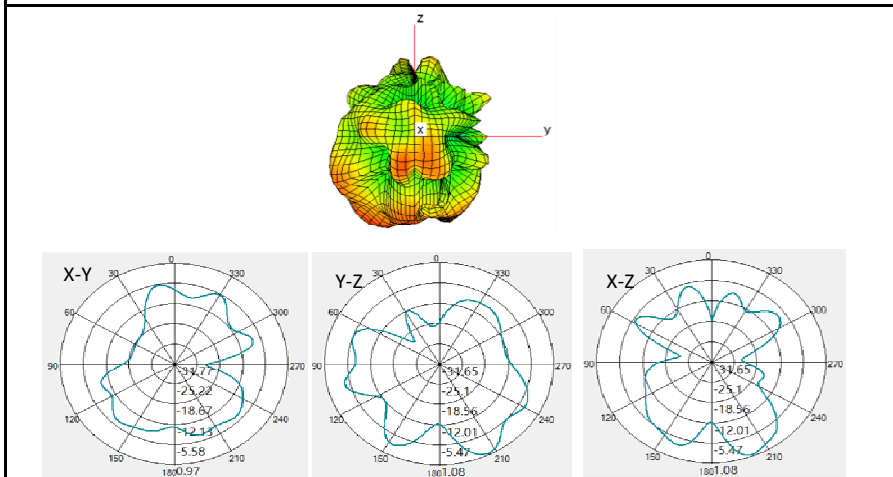
2500MHz



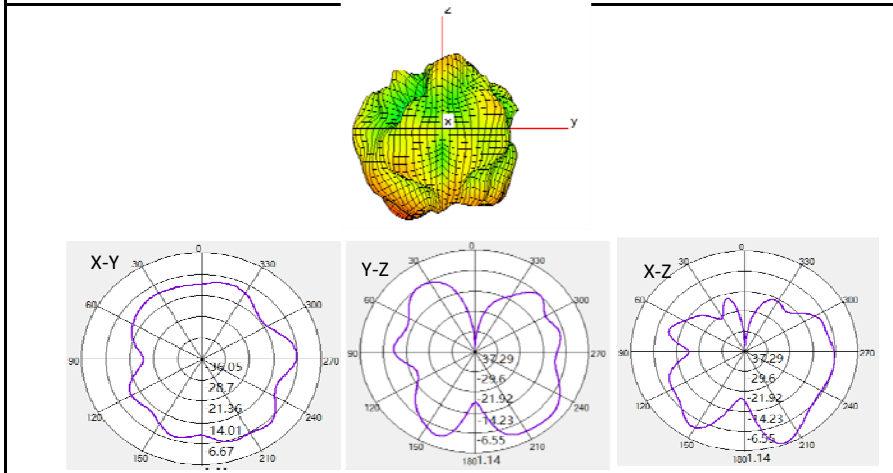
➤ Antenna direction diagram

Center Frequency	Gain(dBi)	Efficiency(%)	Efficiency(dB)
5150MHz	1.08	14.0%	-8.5
5500MHz	1	18.7%	-7.3
5875MHz	5.2	28.2%	-5.5

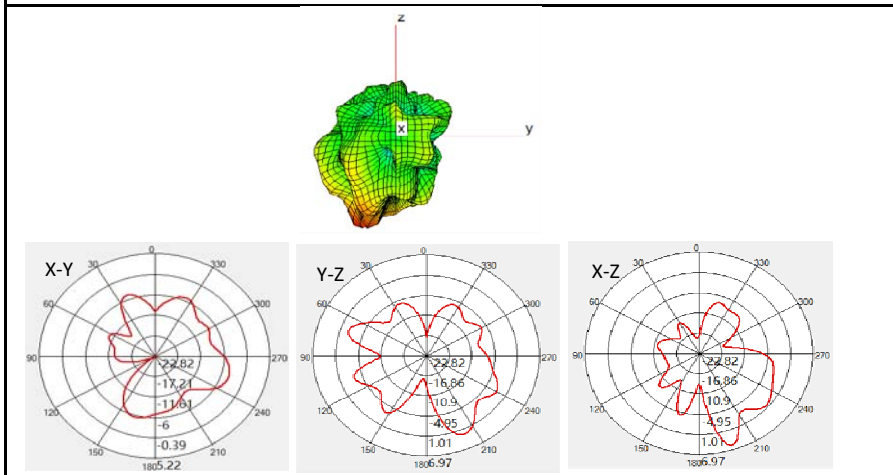
5150MHz



5500MHz



5875MHz



PACKING CRITERION

P/N: 79300006

Spec: Built-in antenna-2.4/5G-shrapnel-L26.7×W4×H10.2×T0.4mm

一、contents of label(according to the customer's name, refer to the corresponding finished product label production requirements. If there is no requirement, it will follow the ordinary label requirements.)

The inner and outer labels are about 10cm long and 6cm wide

buyer	*****		
vender	Zhongshan B&T Communication Technology Co., Ltd Sichuan B&T Technology Co., Ltd.		
urchase No	*****		
Material No.	*****		
Name specification	*****	QC	**
Q' ty/Unit	*****	Manufacture date	****.*.*
Trace code	*****	Serial number	**

二、Packing requirement

Operating description:

1. inner packing:

Blister tray packaging

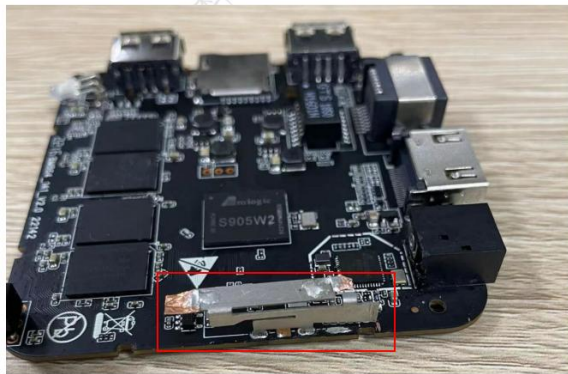
2. outer packing:

Quantity according to actual packing/carton

Notice:

- Whether to add partitions, pearl cotton;
- Labeling, such as ROHS;

8、Antenna installation position Diagram



9、Reliability test requirements

No.	Reliability Test Name	Test Conditions	Evaluation Criteria
1	Constant Temperature and Humidity Test	High temperature: 70° C, Humidity: 80%RH for 24 hours; Low temperature: -40° C for 24 hours; Total duration 48 hours;	Before and after the test, the appearance requirements: The metal surface plating should have no peeling, cracks, wrinkling, separation, etc. Non-metal parts should not change color, have cracks, deformation, glue detachment, and other defects; Electrical performance tests should meet the standard requirements;
2	High and Low Temperature Shock Test	70° C for 2 hours, -40° C for 2 hours, 6 cycles, total 24 hours;	Before and after the test, the appearance requirements: The metal surface plating should have no peeling, cracks, wrinkling, separation, etc. Non-metal parts should not change color, have cracks, deformation, glue detachment, and other defects; Electrical performance tests should meet the standard requirements;
3	Salt Spray Test	Prepare a 5±1% NaCl solution, ensure the pH value of the salt solution is neutral (6.5~7.2); Pressure pot temperature 47±1° C, spray pressure maintained at 1.00±0.1kgf/cm ² , spray rate 1.0~2.0ml;/80cm ² /h; Test duration 24 hours;	The exposed area of the product surface should not have oxidation or rusting; Other areas after the salt spray test, the oxidation/rust area should be less than 1.0%;