

Project No. : Y2604161731

Date: 2026.05.15

Version: A0

Approval Document

Customer Name: Easpu

Debugging Project: M800

Customer Part Number: _____

Boantong Part Number: 74300414

Specification Description : Built-in Antenna-2.4/5G-Grey 1.13 Tin-Tin

Wire-1st Generation Terminal-L=90mm-FPC-41.5×8.1mm

Factory Seal:

Prepared by	Reviewed by	Approved by
Xu Zhangjin	Zhang Guangwei	Liu Lihua

Customer Approval Seal:

Checked by	Reviewed by	Approved by

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表单编号: B&T-QR-EN-002 版本: B3

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3、Product Drawing

REV.		Revision Date	Revision Details	
A0		26-5-14		

Technical Requirements

1:The antenna solder joint is secure, Cable dimensions must be per drawing(Terminal Retention Force≥0.8Kgf).
2:FPC with silkscreen, Clear and durable lettering.
3:Dimensions marked with an asterisk (*) are critical inspection points for IQC.
4:Packaging and quality standards shall refer to B&T Packaging Specification and B&T Quality Standard, respectively.
5:The material is compliant with RoHS 2.0 requirements.
6:The connector port identification direction.

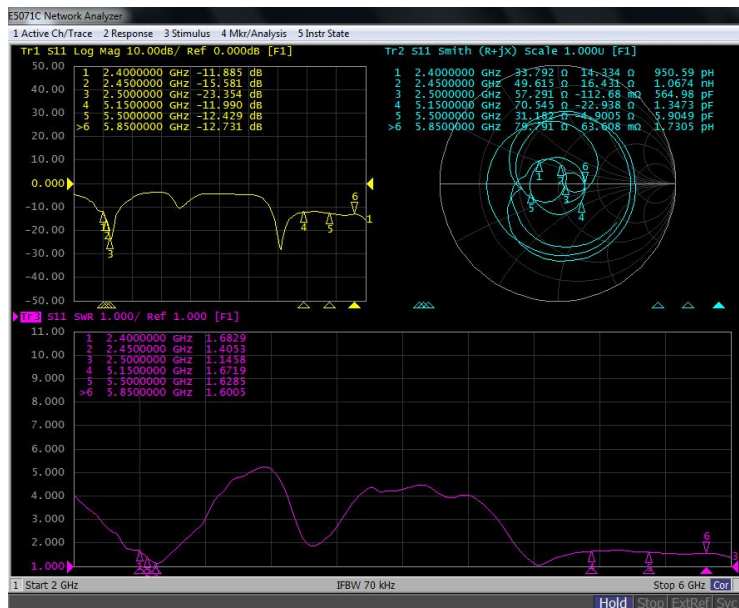
No.	Part Name	Note	Designer	Wei Ningyu					Name	Built-in antenna-2.4/5G-Gray 1.13mm tin-tin solder wire-1st generation terminal-L=90mm-FPC-41.5×8.1mm
①	1st generation terminal		Verify						Project No.	Y2604161731
②	coaxial cable								P/N	74300414
③	FPC		Approval	Li Kaiyong						
			1 > X	±0.05						
			1~9.99	±0.10						
			10~19.99	±0.15						
			20~39.99	±0.20						
			40~	±0.30						
Page 1 of 1										B&T

4、Performance Parameter Table

Complete Machine Electrical Parameters	
Frequency Range	2400~2500/5100~5900MHz
Input Impedance	50 Ω
VSWR	Refer to Engineering Sample Approval
Power Capacity	<10w
Polarization Mode	Linear Polarization
Radiation Pattern	Omni-directional
Connector Model	Terminal
Mechanical Parameters	
Cable Length	90 $\pm$ 3mm
Terminal Retention Force	$\geq$ 0.8Kgf
Coaxial Cable	Grey 1.13 Tin-Tin Wire
Salt Spray Test	24H
Environmental Parameters	
Operating Temperature	-30 $^{\circ}$ C~65 $^{\circ}$ C

5、Electrical Performance Test Report (Complete Machine)

S11 Parameter



VSWR Data

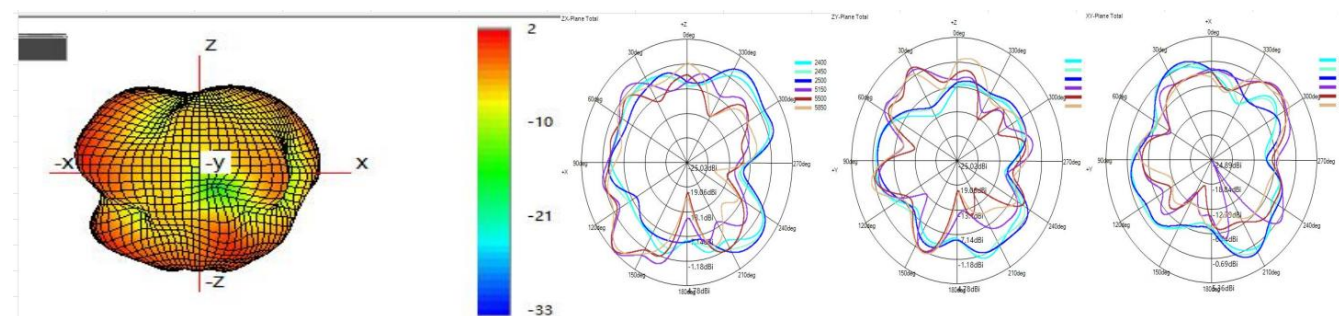
Freq/MHz	2400	2450	2500	5150	5500	5850
VSWR	1.68	1.40	1.14	1.67	1.62	1.60

Antenna Anechoic Chamber Test Data

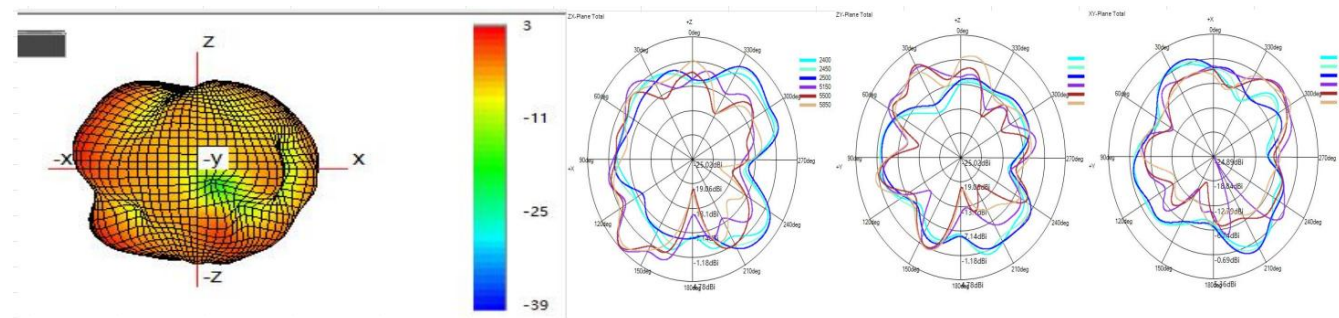
Frequency (MHz)	Gain (dBi)	Efficiency (%)
2400.0	1.04	44.56
2410.0	1.26	45.58
2420.0	1.47	46.44
2430.0	1.63	46.77
2440.0	1.75	47.83
2450.0	2.14	49.74
2460.0	2.47	50.49
2470.0	2.83	50.48
2480.0	2.97	50.99
2490.0	3.17	50.00
2500.0	3.32	50.05
5150.0	4.67	40.99
5250.0	4.87	40.11
5350.0	4.57	40.74
5450.0	3.98	39.43
5550.0	4.54	40.60
5650.0	4.83	41.17
5750.0	4.46	40.72
5850.0	3.66	41.01

Antenna Radiation Pattern

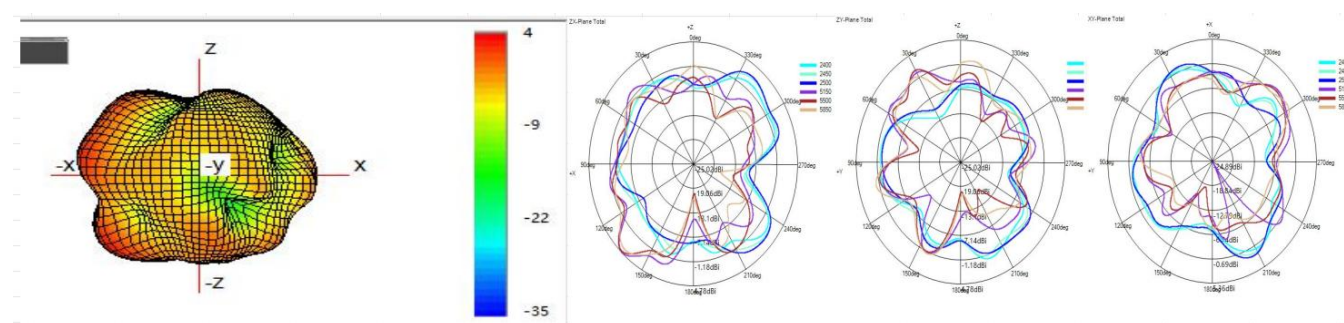
2400MHz



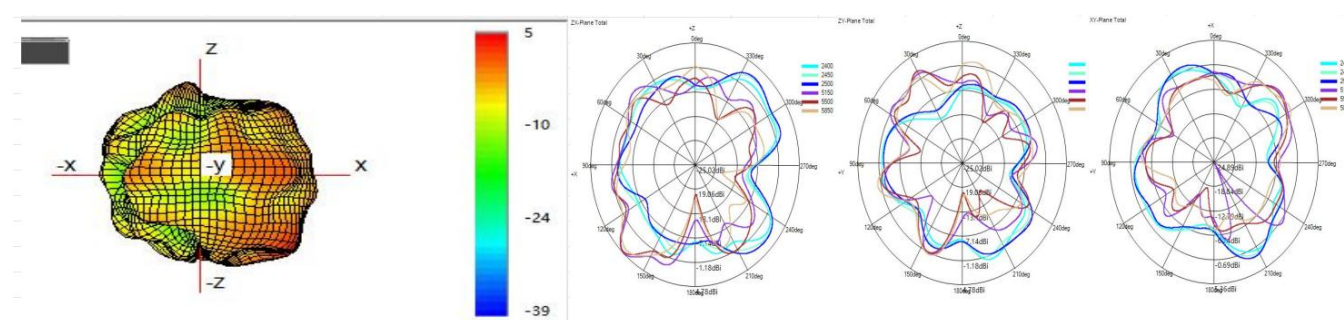
2450MHz



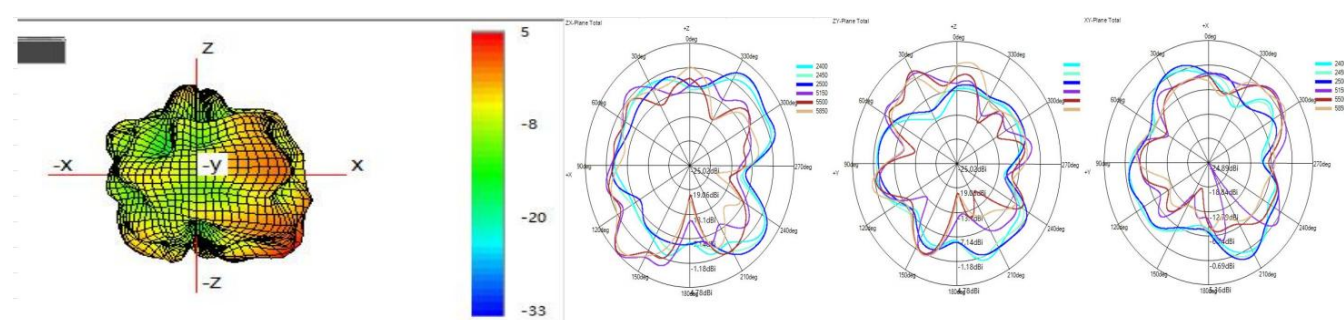
2500MHz



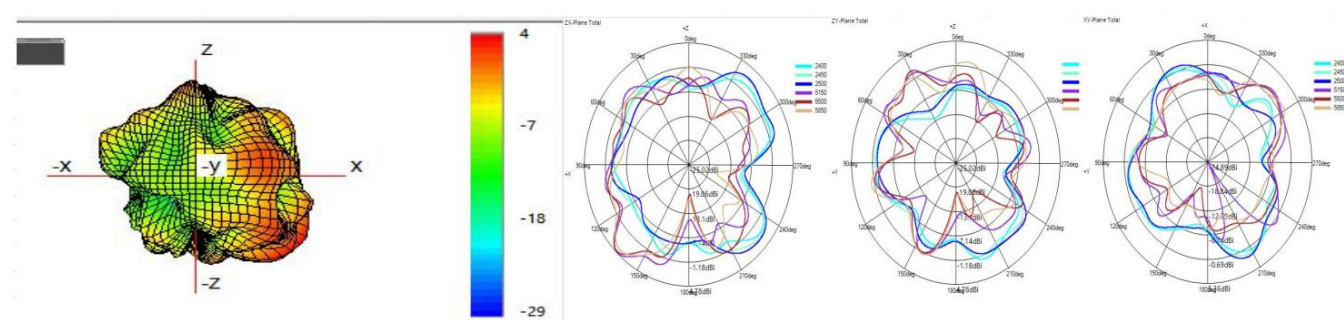
5150MHz



5500MHz



5850MHz



6、Material Composition and Hazardous Substance Table

Item	Specification	Texture of material	ROHS Test Results (PPM)						ICP test number	Test time
			Cd	Pb	Hg	Cr+6	PBB	PBDE		
1	wire	FEP	ND	ND	ND	ND	ND	ND	NGBPC26000015815	2026/1/19
		Tinned wire	ND	ND	ND	ND	ND	ND	A2260467730101001	2026/6/12
2	Terminal	PBT	ND	ND	ND	ND	ND	ND	A2250847182101001E	2025/11/20
		Phosphor Bronze	ND	4	ND	ND	ND	ND	CANEC25027363005	2025/11/13
3	FPC	PI	ND	ND	ND	ND	ND	ND	SHAEC25031840901	2025/12/8
		Tape	ND	ND	ND	ND	ND	ND	SZXEC25003068037	2025/8/28
4	UVglue	3321	ND	ND	ND	ND	ND	ND	SZXEC25004605602	2025/12/2

PACKING CRITERION

Product Part Number: 74300414

Product Specification: Built-in Antenna-2.4/5G-Grey 1.13 Tin-Tin Wire-1st Generation Terminal-L=90mm-FPC-41.5×8.1mm

一、Label Requirements(Refer to corresponding finished label production requirements by customer name; apply general label requirements if no special requirements)

Inner Label: Approx. 10cm Length × 6cm Width

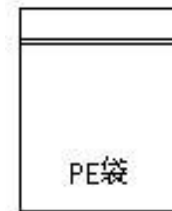
Buyer	*****		
Supplier	Sichuan Boantong Communication Technology Co., Ltd.		
Material Code	*****		
Production Order No.	*****		
Product Name & Spec	*****	Inspector	**
Qty / Unit	*****	Date	****.***
Trace Code	*****	Serial No.	**

二、Packing Requirements

Operation Instructions:

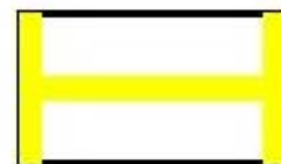
1. Inner Packaging:

100 PCS per small bag,
200 PCS per large bag

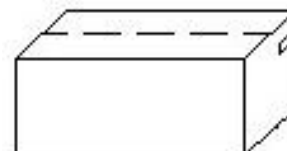


2. Outer Packaging:

Quantity per carton shall be determined according to actual packaging



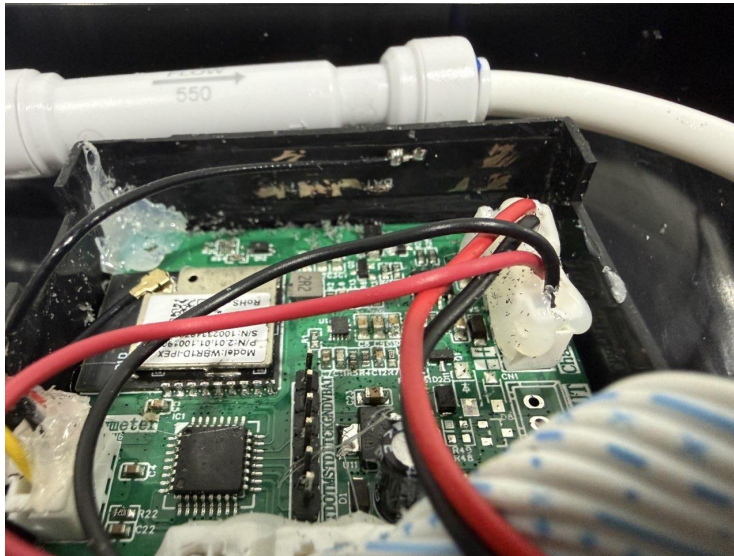
纸箱



Notes:

1. Check whether partition boards and pearl cotton need to be added;
2. Label attachment requirements, such as RoHS labels.

8、Antenna Installation Diagram



9、Reliability Test Requirements

Serial Number	Reliability Test Name	Experimental conditions	Judgment criteria
1	Constant temperature and humidity test	High temperature: 70 °C, humidity: 80% RH for 24 hours; Low temperature -40 °C for 24 hours; continuous for 48 hours in total;	Appearance requirements before and after the experiment: The metal surface coating should be free of peeling, cracks, wrinkles, separation, etc. Non metallic parts should not discolor, crack, deform, or peel off; The electrical performance test meets the standard requirements;
2	High and low temperature thermal shock test	70 °C for 2 hours, -40 °C for 2 hours, 6 cycles, for a total of 24 hours;	Appearance requirements before and after the experiment: The metal surface coating should be free of peeling, cracks, wrinkles, separation, etc. Non metallic parts should not discolor, crack, deform, or peel off; The electrical performance test meets the standard requirements;
3	Salt spray test	Prepare a (5 ± 1)% NaCl solution to ensure that the pH value of the salt solution is neutral (6.5-7.2); The pressure barrel temperature is 47 ± 1 °C, the spray pressure is kept at 1.00 ± 0.1kgf/cm ² , and the spray volume is 1.0~2.0ml;/80cm ² /h; The experiment lasted for 24 hours;	The exposed area of the product surface must not have oxidation or rust; Oxidation/rusting area after salt spray test in other areas<1.0%