

Project : Y202205310738

Date.2022.06.22

REV: A0

## Antenna SPEC

Customer name: Guangzhou Shikun Electronic Technology Company LimitedCustomer project: OD.P.SCSD16.MT926Part Number: 004.032.0052618B&T P/N: 74300061B&T P/N : Built-in antenna - 2.4 / 5G-grey 1.13 tin wire -1  
generation terminal -L=155mm-FPC-26.2×25.4mm

Sealed by corporation:

compilation	ver if y	approval
Huangfe i hui	Huchong	Liul i hua

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Form no. : B&T- qr-en-002 version: B3

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### 3、Product drawing

REV.	Revise	Date												
A0	22-06-22													

Technical requirement

1: The antenna welding part is firm, the cable size is accurate (terminal maintenance force  $\geq 1\text{kgf}$ ).

2: Screen printing color is bright white, the font is clear and not easy to fall off.

3: "3" is the IQC key inspection size.

4: Packaging and quality standards refer to Boantong packaging specifications and Boantong quality standards respectively.

5: The material meets the requirements of ROHS2.0.

6: The terminal mouth does not face the direction.

Number	Part name	Material/technology	Designer	Tanghailin	Name	Built-in antenna - 2.4 / 5G-grey1.13 tin wire -1 generation terminal -L=155mm-FPC-26.2X25.4mm
①	1 generation RF terminal		Verify		Project No.	Y202205310738
②	Coaxial line		Approval		Part No.	74300061
③	FPC					
			1 > X	±0.05	Weight	
			1 ~ 9.99	±0.10	Quantity	
			10 ~ 19.99	±0.15	Scale	1 : 1
			20 ~ 39.99	±0.20	Unit	mm
			40 ~	±0.30	Page 1 of 1	
ZHONGSHAN B&T TECHNOLOGY HOLDINGS Co., Ltd						

#### 4、Properties &parameter

Electrical Parameter	
Freq Range	2400~2500/5150~5850MHz
Characteristic Impedance	50 $\Omega$
VSWR	sample of reference project
The Max input power	<10w
Polarization mode	Polar linearization
Radiation mode	Omni directional
Connector style	terminal
Mechanics Properties	
Length	155 $\pm$ 3mm
Maintain the force	$\geq$ 1 kg f
Coaxial cable	Grey 1.13 tin tin wire
Salt spray test	24H
Environment parameter	
Operating Temp	-30 $^{\circ}$ C~65 $^{\circ}$ C

## 5、Electrical test report (Complete machine)

S11 Parameter WIFI position



## Standing wave ratio data

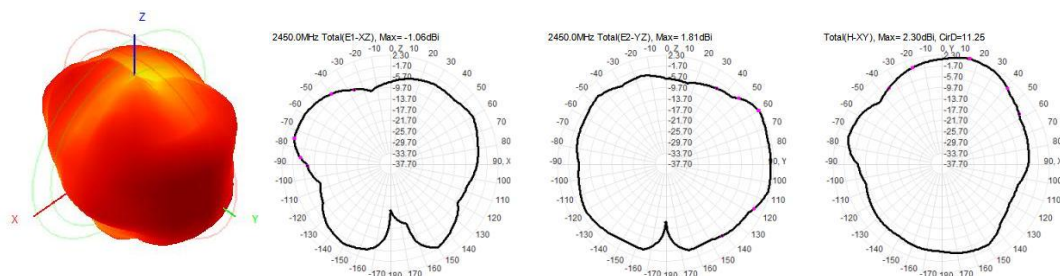
Freq (MHz)	2400	2450	2500	5150	5500	5850
WIFI	1.68	1.50	1.28	1.73	1.75	1.47

## Efficiency&Gain

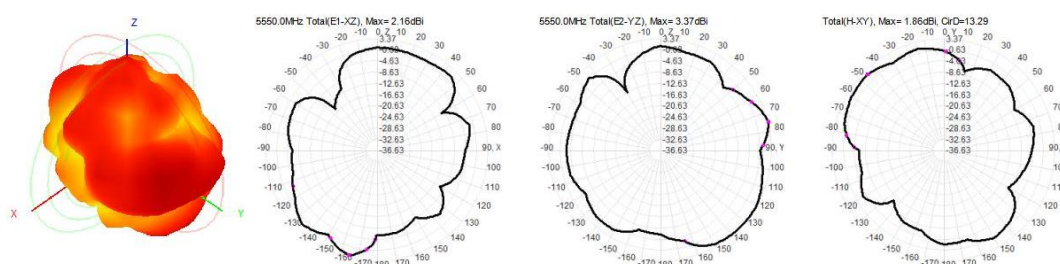
Frequen cy (MHz)	WiFi	
	Gain (dBi)	Efficiency (%)
2400	4.05	46.99
2410	4.03	48.77
2420	3.90	49.98
2430	3.63	50.62
2440	3.05	56.03
2450	3.59	58.56
2460	3.63	58.23
2470	3.83	60.43
2480	4.10	62.27
2490	4.04	61.36
2500	4.23	62.78
5150	4.26	55.93
5250	4.02	58.52
5350	4.60	53.74
5450	4.69	54.51
5550	4.76	50.00
5650	4.62	55.38
5750	5.10	54.93
5850	4.57	50.89

## Radiation pattern



WiFi i 2450MHz



WiFi 5550MHz



## 6、Material composition and hazardous substances list

原材料清单																			
供应商名称: 中山市博安通通信技术有限公司				供应商授权代表: 袁进军				联系电话: 18998784314				日期: 2022.06.22							
Material Name (物料名称)	Raw Material Name (原材料名称)	Raw Material Description (原材料描述)	Raw Material Supplier (原材料供应商)	Banned Substance Content/ppm (禁止物质内容/ppm)										Test Lab 检测机构	Test Report 检测报告	Test Report Number (检测报告号)	Test Date (测试日期)	Exempt from Clarification (豁免说明)	Remark (备注)
				Pb (铅)	Cd (镉)	Hg (汞)	Cr-6 (六价铬)	PBBs (聚溴化苯)	PBDEs (聚溴化苯醚)	邻苯二甲酸二甲酯 (DEHP)	邻苯二甲酸二丁酯 (DBP)	邻苯二甲酸二壬酯 (BBP)	邻苯二甲酸二癸酯 (DIBP)						
内置天线-WIFI-1-灰色 1.1.3磁导线-1代端子- L=155mm- PPC- 26.2x25.4mm	1.1.3线	镀锌铜线	微波通	ND	ND	ND	ND	ND	ND	ND	ND	ND	SGS		CANEC2113747201	2021/7/30	N		
		FEP	微波通	ND	ND	ND	ND	ND	ND	ND	ND	ND	SGS		NGBML2200124301	2022/1/27	N		
		灰色FEP	微波通	ND	ND	ND	ND	ND	ND	ND	ND	ND	SGS		NGBML2104809215	#####	N		
	端子	CS210	彩美	5	ND	ND	ND	ND	ND	ND	ND	ND	SGS		CANEC2201952007	2022/2/18	N		
		镀锌	彩美	ND	ND	ND	ND	ND	ND	ND	ND	ND	CTI		A2210394436101002	2021/9/22	N		
		镀金	彩美	ND	ND	ND	ND	ND	ND	ND	ND	ND	CTI		A2210394436101001	2021/9/22	N		
	PPC	PI	博永凯	ND	ND	ND	ND	ND	ND	ND	ND	ND	SGS		SHAEC2202460504	2022/2/21	N		
		黑油墨	博永凯	ND	ND	ND	ND	ND	ND	ND	ND	ND	SGS		ETR21805816	2021/9/6	N		
		OSP	博永凯	ND	ND	ND	ND	ND	ND	ND	ND	ND	EMTE 测试		DGC211011006MC02	2021/10/4	N		
		3M9471	博永凯	ND	ND	ND	ND	ND	ND	ND	ND	ND	SGS		SHAEC2118730101	2021/9/4	N		
以下空白																			

说明: 所填材料必须是均质材料, 即具有一致组成的材料, 或者多种材料组成的不能通过旋开、切割、破碎、研磨、摩擦等机械手段拆分成不同材料的材料  
声明: 上述所提供视源电子科技有限公司的材料环保信息真实、可靠, 我司愿意承担所有因违约而导致贵司遭受的经济损失和法律责任。

## 7、Prohibited substance warranty

### 禁用物质保证(Certification of Restricted Substance)

我方保证所提供的物料，完全遵守签核的广州视源电子科技有限公司/或其子公司的质量和环保协议中的各项条款，物料中禁用物含量，符合最新版《有害物质管理规范》中的各项标准。

We hereby certify that all the Material fully conform to the requirements of the ShiRuan/or its affiliated companies Declaration of Conformity that had been signed, and the maximum concentration value of restricted substance in Materials comply with the latest 《Regulations on the management of hazardous substances.》



## PACKING CRITERION

P/N: 74300061

Spec.: Built-in antenna - 2.4 / 5G-grey 1.13 tin wire -1 generation terminal -L=155mm-FPC-26.2  
×25.4mm

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.)

Label for PE bag/ carton, L:10cm;W:6cm

buyer	*****		
vender	Zhongshan B&T Communication Technology Co., Ltd. Sichuan B&T Communication Technology Co., Ltd.		
Purchase No	*****		
Material No.	*****		
Part name	*****	QC	**
Q'ty/Unit	*****	Manufacture date	****, **, *
Trace code	*****	Running water number	*****

Label for PE bag/ carton, L:10cm;W:6cm

buyer	*****		
vender	Zhongshan B&T Communication Technology Co., Ltd. Sichuan B&T Communication Technology Co., Ltd.		
Purchase No	*****		
Material No.	*****		
Part name	*****	QC	**
Q'ty/Unit	*****	Manufacture date	****, **, *
Trace code	*****	Running water number	*****

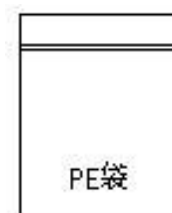
## 二、Packing requirement

Operating description:

### 1. inner packing:

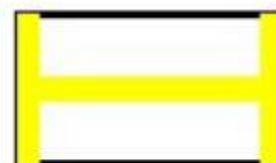
50 PCS/ small bag,

200 PCS/ big bag

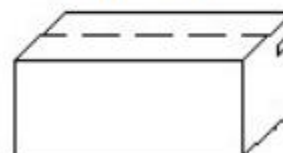


### 2. outer packing:

Quantity according to actual packing PCS/carton



Carton



Notice:

## 9、Antenna installation diagram

