

承 认 书

SPECIFICATION FOR APPROVAL

供应商名称/SUPPLIER:	中山市博安通通信技术有限公司
物料名称/PRODUCT NO. :	内置天线-2.4 / 5G-弹片-L10×W4.5×H5.3×T0.3mm
供应商型号/SUPPLIER NO. :	79300030
汇智/鼎盛物料代码/ Huizhi/Ateko NO. :	A7552431001L
汇智/鼎盛规格描述/ Huizhi/Ateko DESCRIPTION:	WIFI 天线 贴片 2.4G/5G WIFI 弹片天线 3PIN 10X4.5X5mm T0.3mm

汇智/鼎盛承认栏 Huizhi/Ateko APPROVAL			供应商承认栏 SUPPLIER APPROVAL		
质量部 QUALITY	工程部 R&D	安规 SAFTY	核准 APPROVED	检验 CHECKED	承办 DRAWING
			职位：产品经理	职位：设计部经理	职位：工程技术人员
			姓名：刘立华	姓名：胡冲	姓名：邱翠萍

公司:	惠州市汇智科技有限公司	公司:	四川博安通通信技术有限公司
CUSTOMER:	Huizhou Huizhi Technology Co.,Ltd	CUSTOMER:	Sichuan B&T Technology Co., Ltd.
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			Room No. 2 and 3, 5F, Building 8, No. 218,
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CUSTOMER:	Shenzhen Ateko Photoelectricity Co.,Ltd		
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电话/TEL:	0755-81446315		

Manufacturer
中山市博安通通信技术有限公司
Zhongshanshi B&T Technology Co., Ltd.
Shop No. 7-12, Dongfang Industrial Park Complex Building, No. 6 Industrial Zone, Dache Village, Nanlang Street, Zhongshan City, China

Project : Y2502251169

Date. 2025.07.07

REV: A0-0707

Antenna SPEC

Customer name: Dingke

Customer project: HZ-TA22UV1.0

Customer P/N: _____

B&T P/N: 79300030

Spec. : Built-in antenna-2.4/5G-shrapnel-L10 × W4.5 × H5.3 ×

T0.3mm

Sealed by corporation:

compilation	verify	approval
QIUcuiping	Huchong	Liulihua

Sealed by customer:

check	verify	approval

Contact information of B&T:

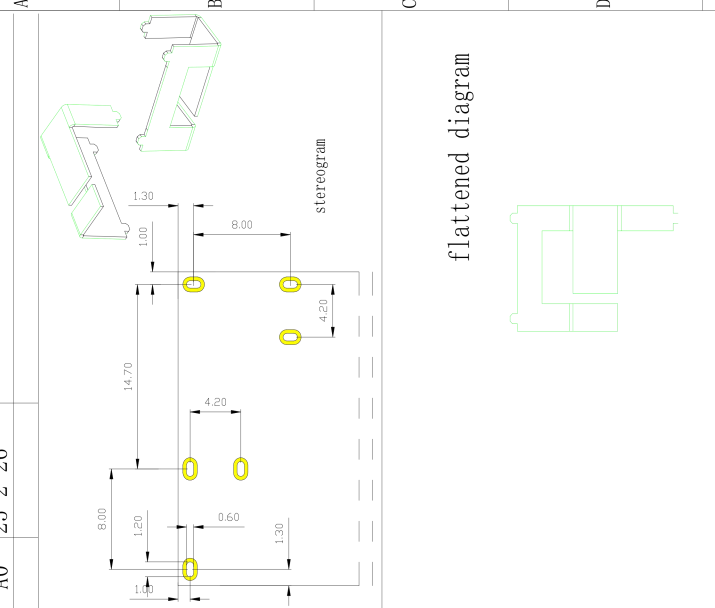
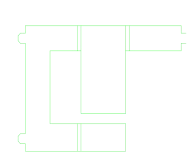
Contact person for sales: Long Mingguo	MB:18576042661	E-mail: longmg@tech-now.com
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Form no. : B&T- qr-en-002 version: B3

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3、Product drawing

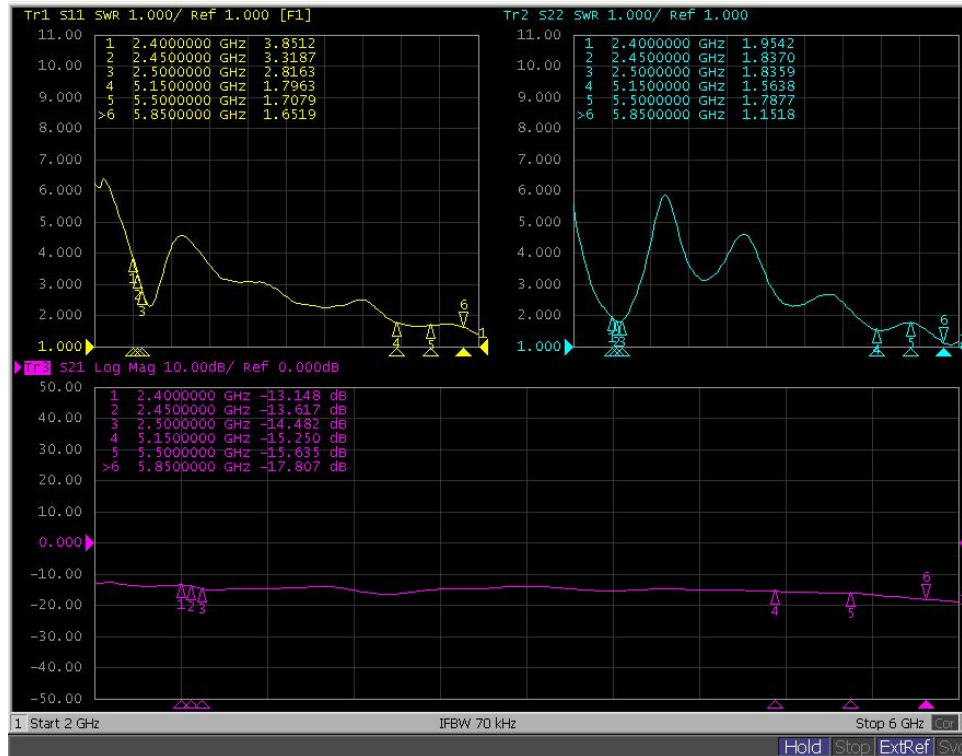
		1		2		3		4		5		6		7		8	
A		Version Modification date Revised content															
		A0 25-2-26															
B																	
C		flattened diagram															
D																	
E		name Built-in antenna-2.4/5G-spring-L10×W4.5×H5.3×T0.3mm															
		Design		Tang Hailin						Project number		Y240318764					
		toexamine								Part number		79300030					
		approval		Zeng Kang		weight		quantity		proportion		Company					
		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													
		40~		±0.30										B&T			
F		Packed in transparent ESD carrier tapes, compatible with 34×34×21cm cartons. Self-sealing tape peel strength shall be 0.49 - 1.96N (0.05 - 0.20KGF). The product must meet the requirements of ROHS2.0.															

4、Properties ¶meter

Electrical Parameter	
Freq Range	2400~2500/5150~5850MHz
Characteristic Impedance	50 Ω
VSWR	Control engineering sealing
The Max input power	<10w
Polarization mode	Linear polarization
Radiation mode	Omni directional
Mechanics Properties	
Length	10 ± 0.2mm
Salt spray test	24H
Environment parameter	
Operating Temp	-30℃~65℃

5、Electrical test report (Machine)

Parameter diagram of antenna S11



Parameter data

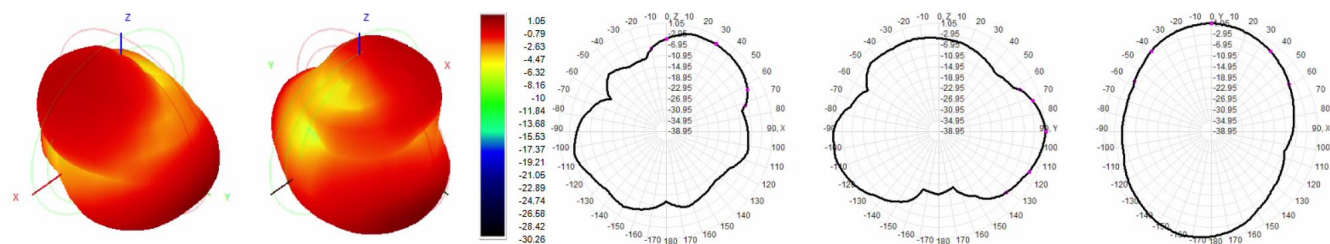
Freq/MHz		2400	2450	2500	5150	5500	5850
左天线	VSWR	1.95	1.83	1.83	1.56	1.78	1.15
右天线		3.85	3.31	2.81	1.79	1.70	1.65
Isolation（dB）		-13	-13	-14	-15	-15	-17

Gain & Efficiency

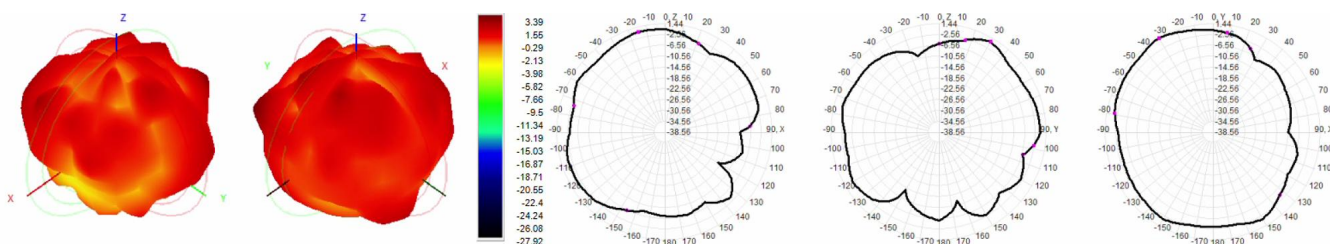
WiFi 天线	Antenna 1 调试模组左天线		Antenna 2 调试模组右天线	
Frequency (MHz)	Gain (dBi)	Efficiency (%)	Gain (dBi)	Efficiency (%)
2400	0.26	27.25	-2.80	20.09
2410	0.42	27.49	-2.73	20.16
2420	0.55	28.85	-2.61	20.82
2430	0.64	29.64	-2.49	20.51
2440	0.97	31.92	-2.66	19.92
2450	1.05	33.89	-2.86	19.65
2460	1.26	35.45	-2.89	18.39
2470	1.43	36.07	-3.43	17.61
2480	1.68	37.19	-2.99	17.42
2490	1.89	39.14	-2.92	17.21
2500	2.00	38.23	-3.94	16.84
5150	1.14	40.71	0.67	40.11
5250	2.47	50.77	1.10	47.18
5350	2.27	55.31	1.59	41.19
5450	2.13	48.14	1.48	43.69
5550	3.39	52.18	0.06	41.69
5650	3.49	55.73	1.34	43.47
5750	2.50	60.25	2.29	51.30
5850	4.09	55.78	3.04	48.90

Radiation pattern

Left antenna 2450MHz

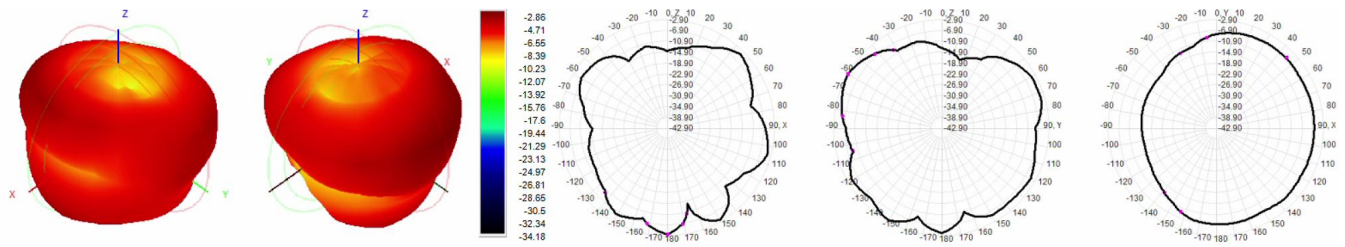


Left antenna 5550MHz

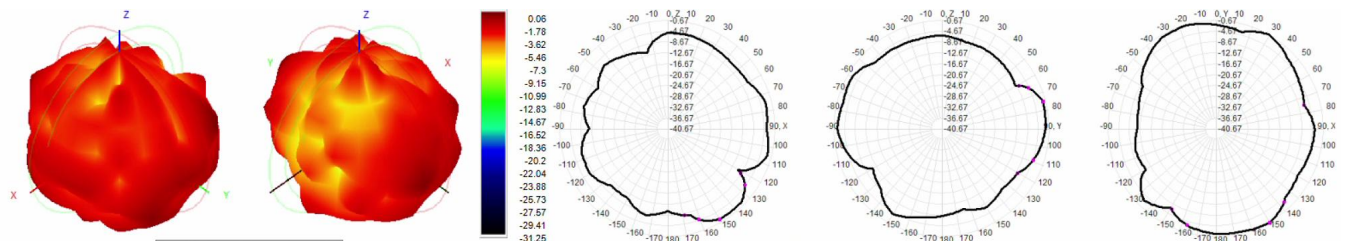


Form no. : B&T-qr-en-002 version: B3

Right antenna 2450MHz



Right antenna 5550MHz



6、List of Material Composition and Hazardous Substances

Item	Specification	Texture of material	ROHS Test Results (PPM)						ICP test number	Test time
			Cd	Pb	Hg	Cr+6	PBB	PBDE		
1	Leaf spring	SUS304	ND	ND	ND	ND	ND	ND	SHAPH25006134215	2025/3/28
		Nickel plating	ND	27	ND	ND	ND	ND	CANEC24029762111	2025/1/8

PACKING CRITERION

P/N: 79300030

Spec.: Built-in antenna-2.4/5G-shrapnel-L10×W4.5×H5.3×T0.3mm

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

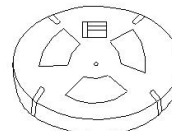
buyer	*****		
vender	Zhongshan B&T Communication Technology Co., Ltd. Sichuan B&T Communication Technology Co., Ltd.		
Purchase No	*****		
Material No.	*****		
Part name	*****	QC	**
Q'ty/Unit	*****	Manufacture date	****.***
Trace code	*****	Running water number	*****

二、Packing requirement

Operating description:

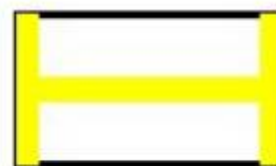
1. inner packing:

Products according to the actual packing quantity/PCS/tray
(carrier tape packaging)



2. outer packing:

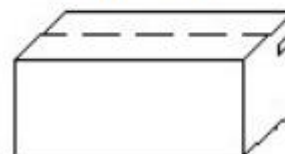
Set the quantity/box according to the actual packaging



Carton

Precautions:

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



8、Reliability testing requirements

Serial Number	Reliability Test Name	Experimental conditions	Judgment criteria
1	Constant temperature and humidity test	High temperature: 70 ℃, humidity: 80% RH for 24 hours; Low temperature -40 ℃ 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 ℃ for 2 hours, -40 ℃ 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 ℃, 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%