

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-2.4G-浅灰色 1.13 银锡线-1 代端子-见线长 210mm-铜管- $\varnothing 4.4\times 23\text{mm}$
供应商型号/SUPPLIER NO. :	74220219
汇智/鼎盛物料代码/ Huizhi/Ateko NO. :	A755PEX2401L
汇智/鼎盛规格描述/ Huizhi/Ateko DESCRIPTION:	2.4G WIFI 天线 IPEX wifi 单铜管天线 增益 2dBi 线长 210mm $\pm 5\text{mm}$ 天线总长度 260 $\pm 5\text{mm}$ 浅灰色 银锡线

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：周泉	姓名：刘立华	姓名：邱翠萍

公司:	惠州市汇智科技有限公司	公司:	中山市博安通通信技术有限公司
CUSTOMER:	Huizhou Huizhi Technology Co.,Ltd	CUSTOMER:	Zhongshan B&T Communication Technology Co., Ltd.
地址:	惠州大亚湾泰宏工业园 C1 栋三楼	地址:	广东省中山市南朗街道大车村第六工业 业区东方工业园第 A 幢 2 至 3 楼 2-3/F, Building A, Dongfang 6th Industrial
ADD:	Third floor,building C1,Taihong Industrial,Daya Bay,Huizhou	ADD:	Park, Dache, Nanlang Town, Zhongshan City, Guangdong Province
电话/TEL:	0755-26740460	电话/TEL:	0755-29976700
公司:	深圳市鼎盛光电有限公司	公司:	四川博安通通信技术有限公司
CUSTOMER:	Shenzhen Ateko Photoelectricity Co.,Ltd	CUSTOMER:	Sichuan B&T Communication Technology Co., Ltd.
地址:	深圳市宝安区沙井街道黄埔社区镇头路黄 埔润和工业园 F 栋 Building F,Huangpu Runhe Industrial	地址:	四川省绵阳市经开区塘汛街道文武中 路 218 号 8 幢 5 层 2、3 号 Room No. 2 and 3, 5F, Building 8, No. 218,
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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 : DK20230721

Date. 2024.03.01

REV: A2

Antenna SPEC

Customer name: Shenzhen Ateko Photoelectricity Co.,Ltd

Customer project: A755

Customer P/N: A755PEX2401L

B&T P/N: 74220219

Spec.: Built-in antenna - 2.4G - light grey 1.13 silver tin wire - 1
generation terminal - see line length 210mm - copper
tube - $\phi 4.4 \times 23\text{mm}$

Sealed by corporation:

compilation	verify	approval
QIUcuiping	Liulihua	Zhou Quan

Sealed by customer:

check	verify	approval

Contact information of B&T:

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

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3、Product drawing

REV.	Revise	Date
A0	23-11-20	
A1	24-2-22	Updated heat shrink specifications ③
A2	24-3-1	Updated heat shrink specifications ③

Technical requirement

1: The antenna welding part is firm, the cable size is accurate (terminal maintenance force $\cong$ 1Kgf).

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

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 is not facing.

Number	Part name	Note	Designer	Tangtailin	Weight	Quantity	Scale	Unit	Name	Project No.	Part No.
①	1 generation RF terminal	Phosphor bronze (gold plated)	Verify								
②	Coaxial line	Silver tin /FEP/ Light grey	Approval								
③	Heat shrink bushing	Polyolefin (EVA)/black double wall tube with glue	1 > X	±0.05			1:1	mm		DK20230721	74220219
④	Copper pipe	Orichalcum	1~9.99	±0.10							
⑤	Brass post	Orichalcum	10~19.99	±0.15							
			20~39.99	±0.20							
			40~	±0.30							

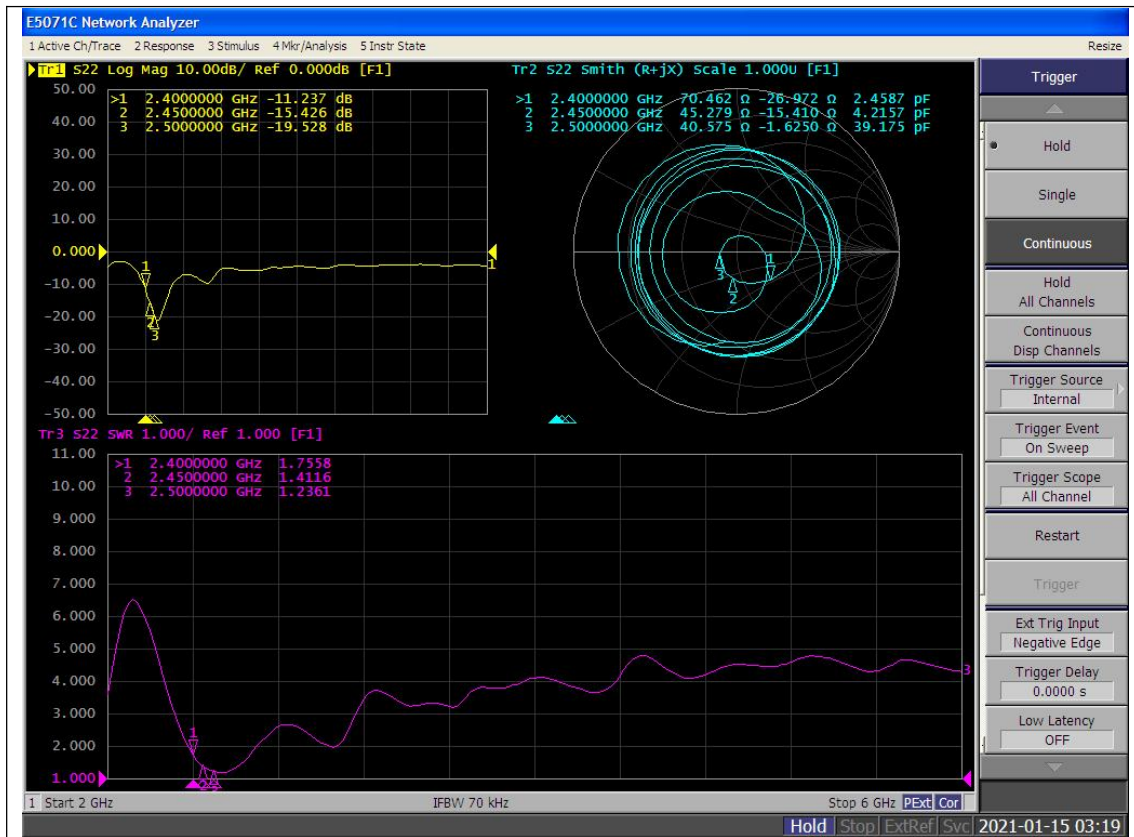
Page 1 of 1									
ZHONGSHAN B&T TECHNOLOGY HOLDINGS Co., . Ltd									

4、Properties ¶meter

Electrical Parameter	
Freq Range	2400~2500MHz
Characteristic Impedance	50 Ω
VSWR	1.86 dBi
The Max input power	<10w
Polarization mode	Polar Roundness
Radiation mode	Omni directional
Connector style	terminal
Mechanics Properties	
Length	210±5mm
Maintain the force	≥1kgf
Coaxial cable	Light grey 1.13 silver tin wire
Salt spray test	24H
Environment parameter	
Operating Temp	-30℃~65℃

5、Electrical test report (Single antenna)

S11 Parameter



Standing wave ratio data

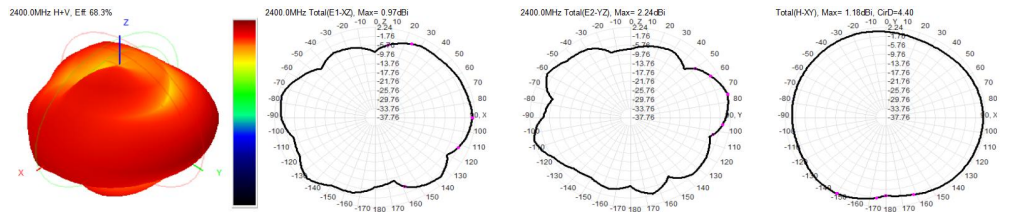
Freq/MHz	2400MHz	2450MHz	2500MHz
VSWR	1.35	1.82	2.23

antenna darkroom test data

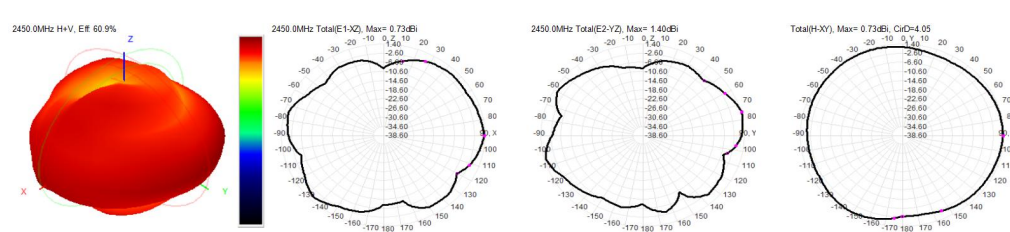
Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
2400.0	-1.87	1.80	65.07
2410.0	-1.91	1.75	64.47
2420.0	-2.05	1.78	62.41
2430.0	-2.09	1.86	61.80
2440.0	-2.21	1.77	60.06
2450.0	-2.31	1.60	58.70
2460.0	-2.35	1.43	58.20
2470.0	-2.38	1.23	57.83
2480.0	-2.42	1.27	57.27
2490.0	-2.71	1.12	53.56
2500.0	-2.69	1.31	53.79

➤ antenna direction diagram

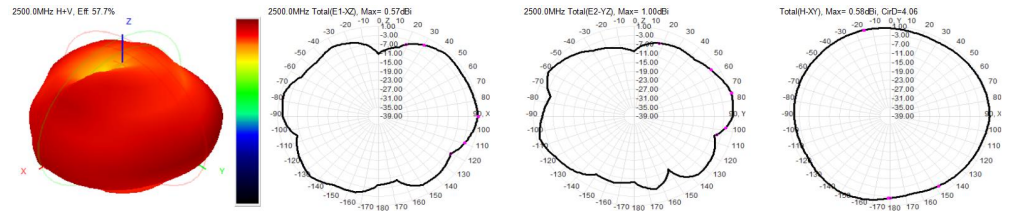
2400M 3D-E1-E2-H



2450M 3D-E1-E2-H



2500M 3D-E1-E2-H



6、Material composition and hazardous substances list

Items are	specifications	material	RoHS The inspection results (PPM)						ICP Test number	Detection time
			Cd	Pb	Hg	Cr ⁺ 6	PBB	PBD E		
1	1.13line	FEP	ND	ND	ND	ND	ND	ND	CANML2224667901	2022/11/21
		Tinned copper wire	ND	ND	ND	ND	ND	ND	CANEC23001336401	2022/10/21
		Silver plated copper wire	ND	ND	ND	ND	ND	ND	ANEC23000141401	2023/2/13
2	1 generation RF terminal	PBT	ND	ND	ND	ND	ND	ND	A2230035037101002E	2023/2/11
		Phosphor bronze	ND	ND	ND	ND	ND	ND	CANEC2301145810	2023/2/8
3	Copper pipe	copper	ND	8	ND	ND	ND	ND	SHAEC22002307110	2022/10/14
		tinning	ND	57	ND	ND	/	/	A2220158237101001E	2023/5/12
4	cannula	Heat shrink bushing	ND	ND	ND	ND	ND	ND	CANEC2225190701	2022/12/1
5	Copper wire	Orichalcum	ND	21	ND	ND	ND	ND	SZXEC23000111403	2023/2/24

PACKING CRITERION

P/N: 74220219

Spec.: Built-in antenna - 2.4G - light grey 1.13 silver tin wire - 1 generation terminal - see line length 210mm - copper tube - $\phi 4.4 \times 23\text{mm}$

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	*****

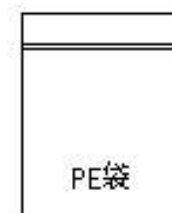
二、Packing requirement

Operating description:

1. inner packing:

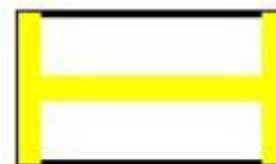
50 PCS/ small bag,

200 PCS/ big bag

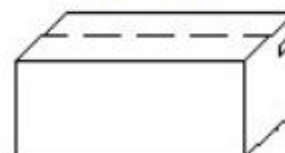


2. outer packing:

Quantity according to actual packing PCS/carton



Carton



Notice: