

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-黑色 1.13 银锡线-1 代端子-见线长 678mm-双铜管- $\varnothing$ 5.2 $\times$ 24mm
供应商型号/SUPPLIER NO. :	74300120
汇智/鼎盛物料代码/ Huizhi/Ateko NO. :	A755PEX2439L
汇智/鼎盛规格描述/ Huizhi/Ateko DESCRIPTION:	2.4G+5G 双频 WIFI 天线 IPEX,wifi 双筒管天线 天线总长 730mm $\pm$ 5mm 黑色 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：工程技术员
			姓名：周泉	姓名：刘立华	姓名：黄飞辉

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:	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
ADD:	Third floor,building C1,Taihong Industrial,Daya Bay,Huizhou	ADD:	Room No. 2 and 3, 5F, Building 8, No. 218, Wenwu Middle Road, Tangxun Street, Economic Development Zone, Mianyang City, Sichuan Province
电话/TEL:	0755-26740460	电话/TEL:	0755-29976700
公司:	深圳市鼎盛光电有限公司		
CUSTOMER:	Shenzhen Ateko Photoelectricity 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		
ADD:	Building F,Huangpu Runhe Industrial Park,Zhentou Road,Huangpu Community,Shajing Sub-district,Bao'an District,Shenzhen		
电话/TEL:	0755-81446315		

Project : DK20230324

Date. 2023.03.28

REV: A0

Antenna SPEC

Customer name: Shenzhen Ateko Photoelectricity Co.,Ltd

Customer project: A755

Customer P/N: A755PEX2439L

B&T P/N: 74300120

Spec.: Built-in antenna - 2.4 / 5G - Black 1.13 silver tin wire -1
generation terminal - See line length 678mm- Double
copper tube - $\varnothing 5.2 \times 24\text{mm}$

Sealed by corporation:

compilation	verify	approval
QIUcuiping	Liulihua	Zhou Quan

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
Contact person for technical: Liulihua	MB:13590104459	E-mail: liulh@tech-now
Contact person for Quality: Zeng Kang	MB:18188400229	E-mail: zengk@tech-now.com

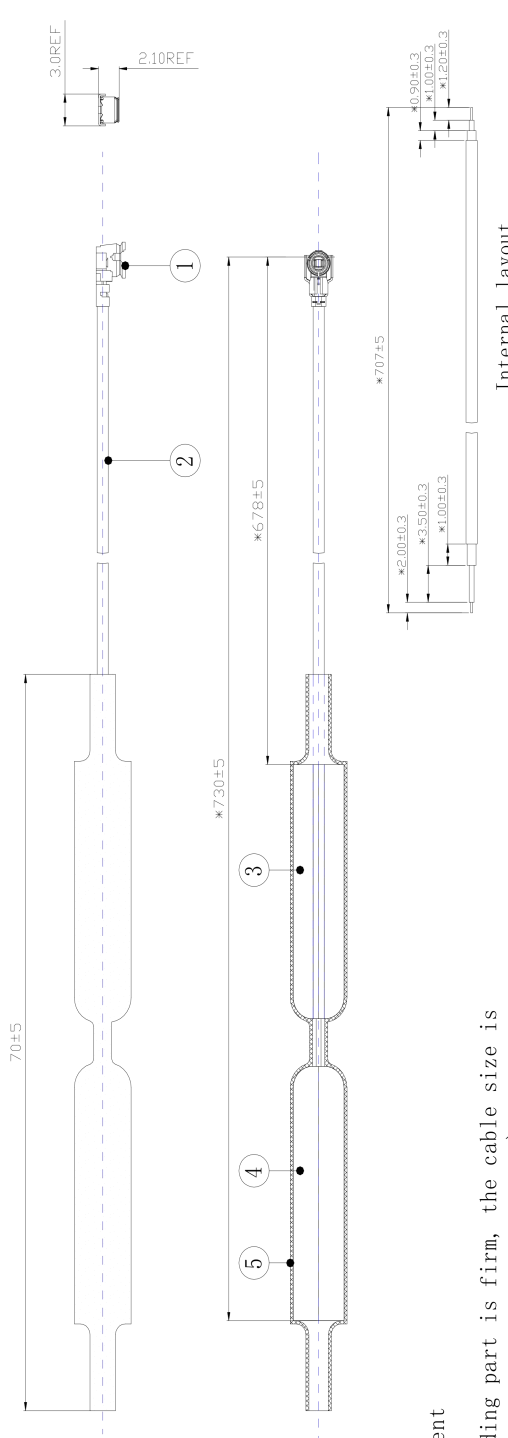
Form no. : B&T- qr-en-002 version: B3

Contents

1、 Cover.....	1
2、 Index of specification.....	3
3、 Product drawing.....	4
4、 Electrical Parameter.....	5
5、 Electrical test report.....	6-7
6、 Table of Materials and Hazardous Substances.....	7
7、 Packing Specification.....	8

3、Product drawing

REV.		Revise	Date
A0		23-03-23	



Technical requirement

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

2: "±" is the IQC key inspection size.

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

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

5: The terminal tip is not facing.

Number	Part name	Note
①	1 generation RF terminal	
②	Coaxial line	
③④	Copper pipe	
⑤	Heat shrink tube	

Designer	Du Qinglin	Name	Built-in antenna - 2.4/5G - Black
Verify		Project No.	1.13 silver tin wire -1 generation terminal - See line length 678mm- Double copper tube - $\phi 5.2 \times 24\text{mm}$
Approval		Part No.	DK20230324
1 > X	± 0.05		74300120
1 ~ 9.99	± 0.10		
10 ~ 19.99	± 0.15		
20 ~ 39.99	± 0.20		
40 ~	± 0.30		

Page 1 of 1

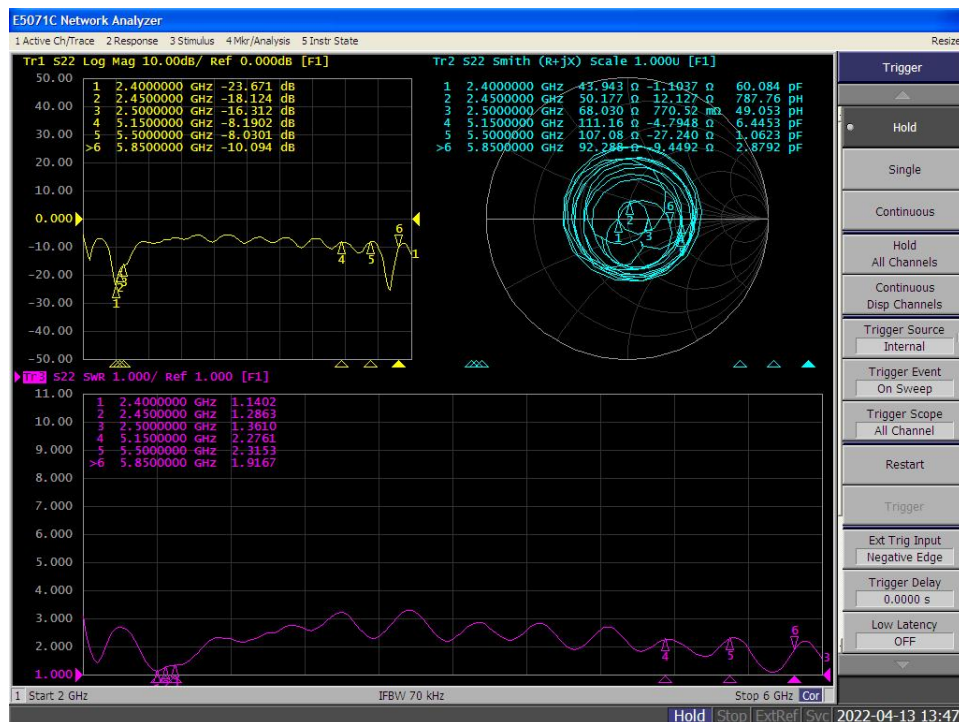
ZHONGSHAN B&T TECHNOLOGY HOLDINGS Co., . Ltd

4、Properties ¶meter

Electrical Parameter	
Freq Range	2400~2500/5150~5850MHz
Characteristic Impedance	50 Ω
VSWR	(2.4G) 2.47dBi
	(5G) 5.57dBi
The Max input power	10w
Polarization mode	Polar Roundness
Radiation mode	Omni directional
Connector style	terminal
Mechanics Properties	
Sight length	678 $\pm$ 5mm
Maintain the force	$\geq$ 1kgf
Coaxial cable	Black 1.13 silver tin wire
Salt spray test	24H
Environment parameter	
Operating Temp	-30 $^{\circ}$ C~65 $^{\circ}$ C

4、electrical performance test report (machine)

S11 Parameter



➤ Standing wave ratio data

Freq/MHz	2400MHz	2450MHz	2500MHz	5150MHz	5500MHz	5850MHz
VSWR	1.14	1.28	1.36	2.27	2.31	1.91

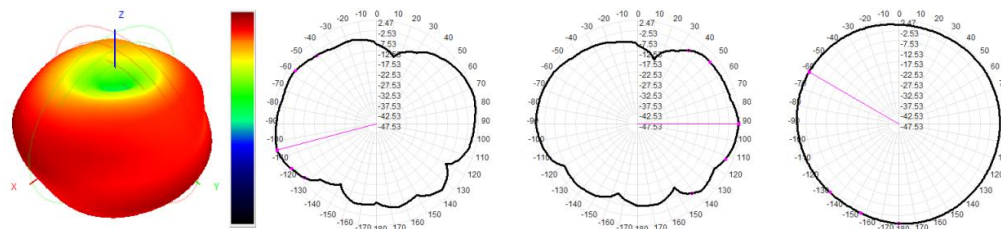
➤ antenna darkroom test data

Frequency (MHz)	Gain (dBi)	Efficiency (%)
2400.0	2.47	71.95
2410.0	2.31	71.77
2420.0	2.12	70.60
2430.0	1.98	69.06
2440.0	1.64	64.08
2450.0	2.05	70.83
2460.0	2.08	71.84
2470.0	2.19	73.08
2480.0	2.20	74.47
2490.0	1.91	72.49
2500.0	1.81	73.83
5150.0	2.24	50.42
5200.0	1.62	52.82
5250.0	2.52	55.16
5300.0	3.51	61.11
5350.0	3.14	55.05
5400.0	2.85	51.26
5450.0	2.99	53.74
5500.0	3.06	61.60
5550.0	3.07	54.91
5600.0	2.68	50.91
5650.0	4.05	60.89
5700.0	5.57	63.32
5750.0	4.61	66.89
5800.0	3.58	53.01
5850.0	3.04	53.61

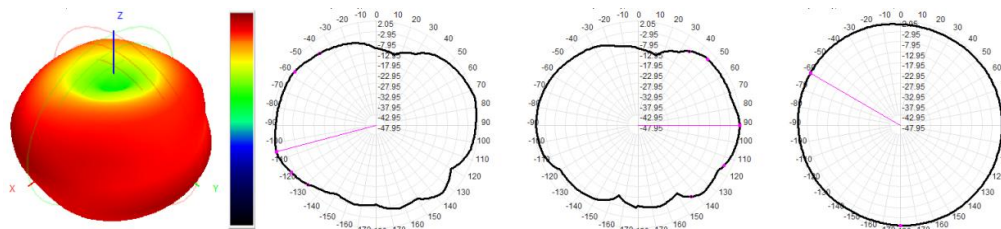
➤ antenna direction diagram

2400M

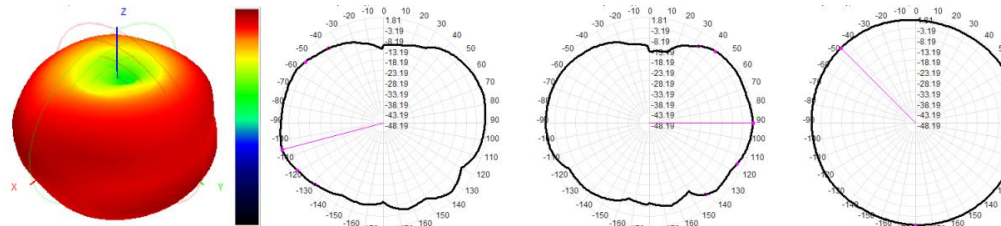
3D-E1-E2-H



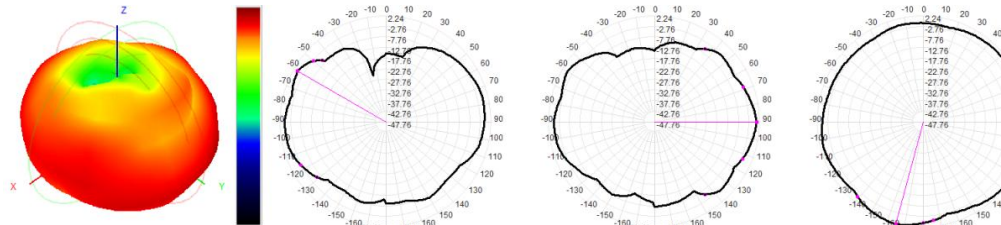
2450M 3D-E1-E2-H



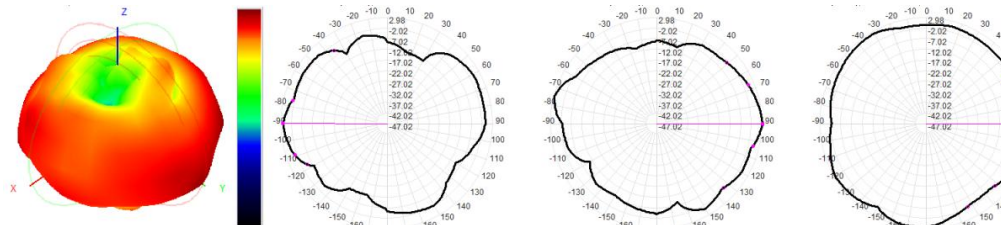
2500M 3D-E1-E2-H



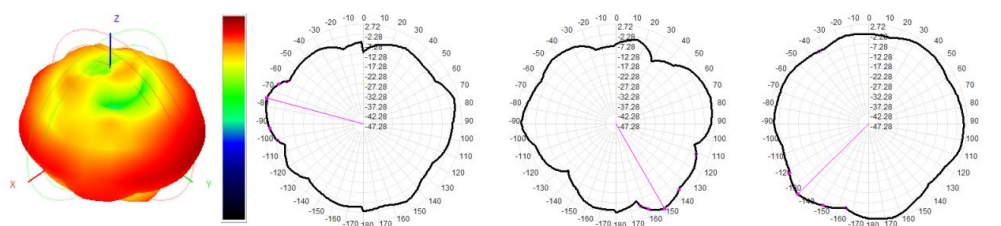
5150M 3D-E1-E2-H



5500M 3D-E1-E2-H



5850M 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	PBDE		
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

PACKING CRITERION

P/N: 74300120

Spec.: Built-in antenna - 2.4/5G - Black 1.13 silver tin wire -1 generation terminal - See line length 678mm- Double copper tube - $\varnothing 5.2 \times 24$ 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	*****

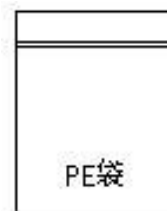
二、Packing requirement

Operating description:

1. inner packing:

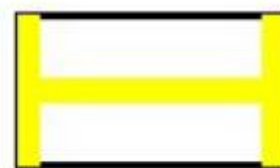
50 PCS/ small bag,

200 PCS/ big bag

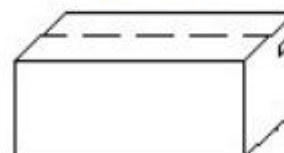


2. outer packing:

Quantity according to actual packing PCS/carton



Carton



Notice: