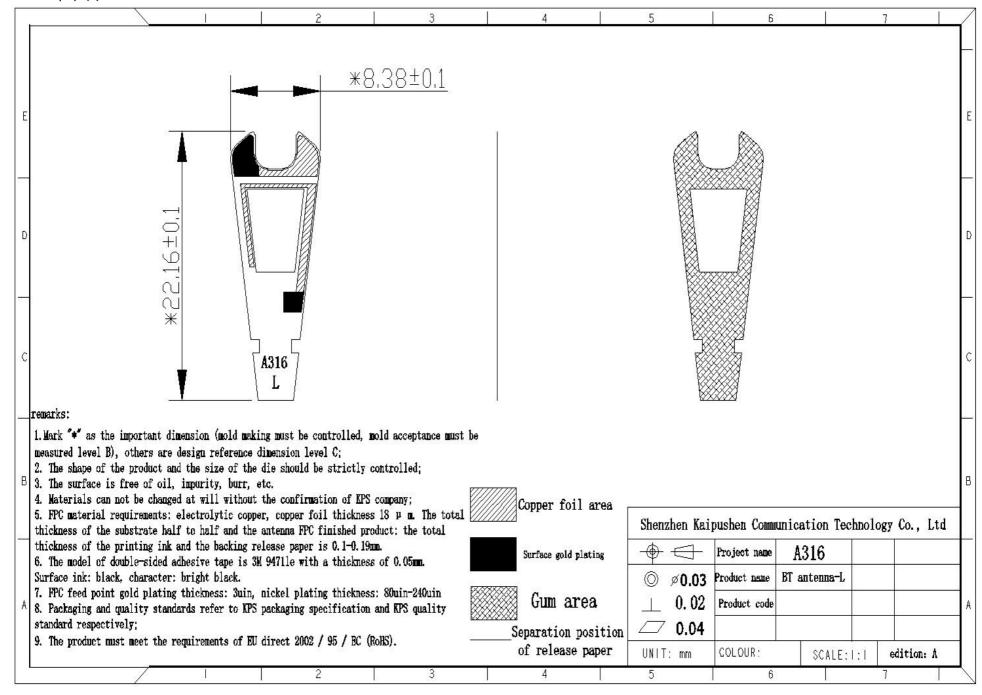
Shenzhen Kaipushen Communication Technology Co., Ltd

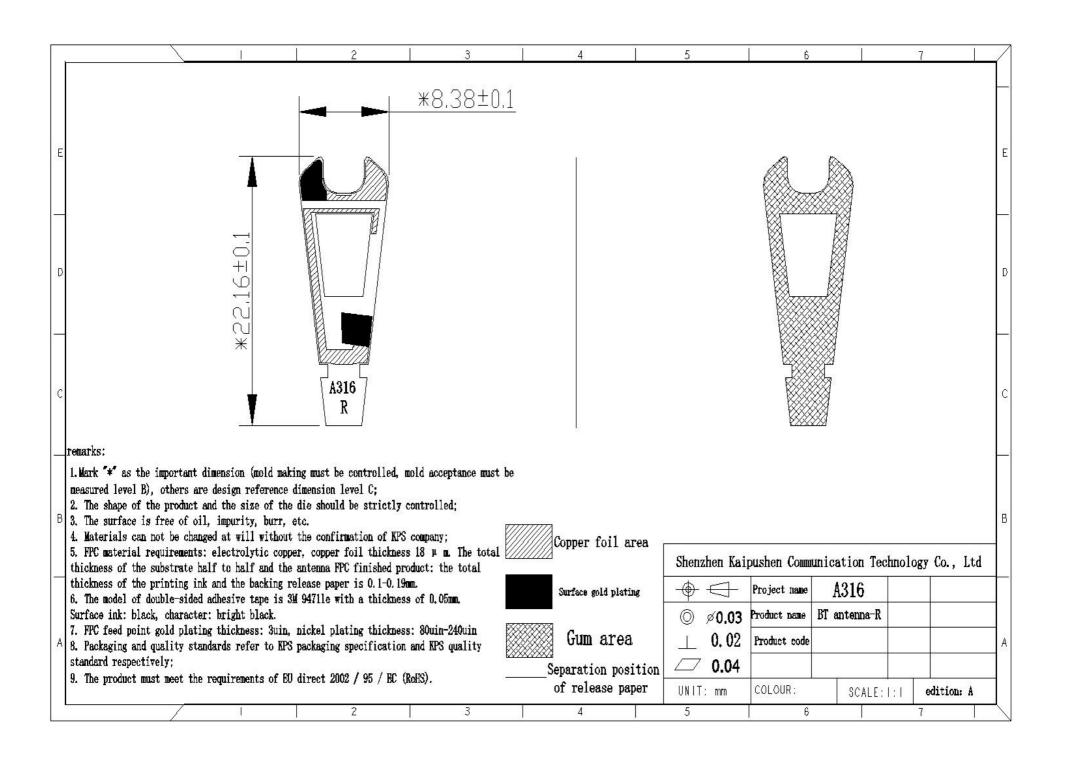
	recimo	orogy co.	, Ltu			
	Sample	approve	e sheet			
	Customer:	Ruibo	xin			
	Item name:	A316				
	Sample name:	BT aeri	al			
Descri	ption/color:	black				
F	Release Date:	2022-09-	06			
Supplier	Make	R&D	Structure	Quality		
confirmed	Liu Xiao meng 2022.09.06					
Customer	Item	Appearance	Structure	Quality		
confirmed						
Conclusion	□ M	IP use □ Lim	ited use () K		
				□ ROHS		
Supplier name:	Shenzhen Kaipus	hen Communicatio	on Technology Co	o., Ltd		
Supplier address: 2nd Floor, Building 1, Yulong Building, Longcheng Industrial Zone, No. 440, Longguan Avenue, Longhua District, Shenzhen Tel: 0755-29351613 Fax: 0755-29351510						
E-mail:szkpst	x@szkpstx.com					

Contents

1,	Cover
2.	Contents
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6.	QC engineering drawing
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8.	rohs means
9.	Salt spray test report
10,	High-low temperature test
11、	Package

3. ICD图纸





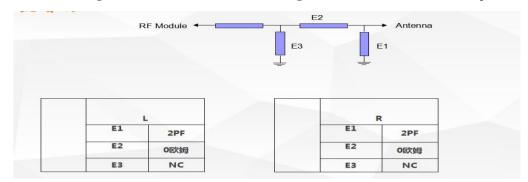
5.1 electrical properties

5.1-1 specification

BT antenna resonates at 2400m-2500m .

5.1-2 Matching circuit of antenna.

BT: Matching circuits of left and right main boards of headphones are as follows:



5.2 Standing wave ratio (SWR) test

5.2-1 Test settings

Connect the standing wave ratio (SWR) test device in sequence: E5071Bnetwork analyzer→50 ohm coaxial cable→150mm long copper pipe→test fixture ∘

Treatment of test fixture: 从耳机PCB上天线50欧姆测试点处用一根硬质电缆引出SMA-J接头与套有扼流圈的铜管连接,再依次连接其他装置。

6.2-2 VSWR Test:

L

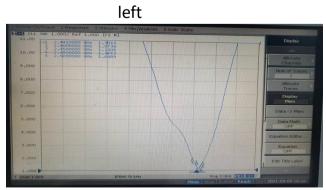
Thefollowin g Standing wave ratio of the edge frequency point of the antenna operating band :

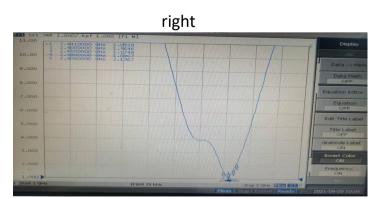
Fre(MHZ)	2402	2440	2480
SRW	1.9	1.3	1.36

The following tableshows: TCS4973A GPS/WIFI/BTS tanding wave ratio of the edge frequency point of the antenna operating band:

point or	the antenna ope	iating bana.	•	
	Fre(MHZ)	2402	2440	2480
R	SRW	1.5	1 1	1.6

6.2-3 Passive test results





1. The figure above is the standing wave ratio curve

6.2-4 Active test data of the whole machine:

Main antenna test data:

ВТ	L			F		
CHANNEL	0	39	78	0	39	78
TRP	4. 7	5. 5	5	4.5	5. 1	5
TIS	-88. 5	-89	-89	-88. 7	-89	-89

Main antenna head model test data:

BT	L			F		
CHANNEL	0	39	78	0	39	78
TRP	-2.6	-2	-2.1	-2.3	-1.8	-1.8
TIS	-81.6	-81. 7	-81.4	-81. 75	-82.6	-82. 1

6.2-6 BTantenna passive test data:

			r1	ght						
				右耳	‡					
					F	req	Effi	Effi	Gain	Gain
Freq	Effi	Effi	Gain	Gain	()	MHz)	(%)	(dB)	(dBi)	(dBd)
(MHz)	(%)	(dB)	(dBi)	(dBd)	2	400	33. 18	-4.79	-1.51	-3.66
2400	28. 88	-5. 39	-2.79	-4. 94	2	410	33. 93	-4. 69	-1. 23	-3. 38
2410	30	-5. 23	-2.49	-4. 64	2	420	33. 04	-4.81	-1. 28	-3. 43
2420	31. 95	-4. 96	-2.18	-4. 33		430	31. 95	-4. 96	-2. 18	-4. 33
2430	33. 18	-4. 79	-2.03	-4. 18		440	33. 18	-4. 79	-2. 03	-4. 18
2440	34. 72	-4. 59	-1.81	-3. 96	The state of the s					
2450	37. 47	-4. 26	-1.49	-3. 64	The second secon	450	30. 71	-5. 13	-1. 41	-3. 56
2460	35. 67	-4. 48	-1.43	-3. 58		460	30. 17	-5. 2	-1. 18	-3. 33
2470	33. 18	-4. 79	-1.51	-3. 66	2	470	30. 02	-5. 23	-1.05	-3. 2
2480	33. 93	-4.69	-1.23	-3.38	2	480	30. 78	-5.12	-0.76	-2.91
2490	33. 04	-4.81	-1.28	-3. 43	2	490	31. 35	-5.04	-0.64	-2. 79
2500	31. 33	-5.04	-1.44	-3. 59	2	500	30. 81	-5. 11	-0.63	-2. 78

Full dimensional measurement report

	Customer	Ruibo	oxin	part	name	BT a	nerial	Q	ty				Material	Electrolytic copper
	Supplier	Kaipu	shen	Measur	e tools	Quadra	ntic	Measur	e unit		mm		Measure date	2021/12/13
NO.	Size (DIMENSION	Upper	+ TOL.	- TOL.	Lower	Act mea	Act mea 2	Act mea	Act mea	Act mea 5	Act mea	Act mea 7	UPPER≦100%	LOWER≦100%
1	22. 16	22. 26	0.10	0.10	22. 16	22. 17	22. 15	22. 17	22. 17	22. 15	22. 18	22. 17	20%	10%
2	8. 38	8.48	0.10	0.10	8. 28	8. 37	8. 38	8. 38	8. 37	8.39	8.39	8. 37	10%	10%
3	22. 16	22. 26	0.10	0.10	22.06	22. 15	22. 15	22.16	22. 18	22. 17	22. 17	22. 17	20%	10%
4	8. 38	8.48	0.10	0.10	8. 28	8. 38	8. 38	8. 37	8. 37	8.40	8.39	8. 39	20%	10%
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														

Tabulation: Jian Chen auditing: Wu Xingtuo Date: 2021-12-16

KI	15			通讯科技有限公司	QCook.	مطبيات طعر	owina	fileı	number	KPSQPA-QA004	Enactment Date	
天线	专家	Shen	zhen cape deep co	mmunication technology co.,	GO SCIII	QCschedule drav		file version		A/01	Page	page 1
	hnologi process	cal	Control focus		management responsibility	met	thod		Inspect	ion method	corrective	action
Order Numbe	Main Process	proje ct	aControl Project	Regulatory standards	person liable	Normal sampling	person in	Inspecti	Examines the tool	Record type	Solutio	on
	\nearrow	begin										
1	$ \stackrel{\bullet}{\uparrow} $	Recei ving	quantity/product name/specificati	《Engineering BOM》 《Material receiving operation instruction》	Material clerk					《Electronic accoun 》	t Contact the supplier returning note》	and issue 《
2	\diamondsuit	Incom ing inspe ction	specifications/m odel/pack	《Engineering BOM》 《Sampling inspection plan》 《IQC incoming material inspection instruction》	IQC	MA=0.25 MI=0.65	IQC	1. visual 2. Machine test 3. sample	Two dimension al vernier caliner	《IQC incoming inspection record》	Inspection: OK, stamped with inspection ng shall be label product and issued at the sa Problem Solving Report », N return and improve 。	ed as nonconforming me time 《8D Report
4	$ \stackrel{\bullet}{\uparrow} $	mater ial	quantity/product name/specificati	《 production instruction》 《Material receiving operation instruction》	Material clerk					《Material requisition and distribution		
22	\Diamond	pack	pack quantity/indicat	《Finished product packaging operation instruction》	packager							
21		Deliv ery inspe ction	product appearance bad record Dimensional test Bad sign Good product packaging ROHS compliance	《Engineering BOM》 《Sampling inspection plan》 《OQCFinal inspection operation instruction》	OQC	MA=0.25 MI=0.65	OQC	1. visual 2. Machin e test 3. sample		《OQC finished product inspection record 》	If the number of tim type of the same typ the daily inspection issues the 8D report solving report to th manager for analysis	e missing in is greate, OQC problem e production
25	$ \stackrel{\bullet}{\bigcirc} $	deliv ery	product namespecification quantity	《Finished product shipping operation instruction》	Material clerk					《Electronic accoun 》	t	
	*	finis	, , ,									
chara cter	Revision	n date		Revised content		Revised; Revised	Acknowle dged by	Fiction		auditi	approval	
1										ng		
② ③								date		date	date	

Shenzhen cape deep communication	file NO	
technology co., LTD	Enactme nt Date	
EDC automa inspection specification	Page	
FPC antenna inspection specification	edition	AO

- 1. Purpose and purpose: rigorous testing, Control the use of defective products and ensure product quality requirements.
- 2. applicable scope: FPC aerial.
- 3. content

item	content	tool	Inspection standards and technical requirements	Defect Description	stratum
pack	character istic	visual	The outer package is clearlylabeled , Indicate, product name , specifications , quantity, date.	The identification is not clear and cannot be identified •	MIN
ing	Matter visual Uniform parand tidy, No impact , Storage, installation		Uniform packaging, Clean and tidy, unabroken, No impact on handling Storage, No wrong installation, mixed, Less clothes.	Inconsistent packaging, Dirty、damp、damaged., Affect handling、Storage	MIN
appea rance	surface	visual	FPC is not damaged, Copper Exposured, dehiscence, chromatic aberration, Yijiao,Gold finger is free of oxidation and brittle crack.	FPC is damaged, Copper Exposured, dehiscence, chromatism, rubber overflowing, Oxidation of golden finger, Brittle crack.	
struc	measurement	vernie r	Board size (dimensions) Same as template	The size is different from the	MAJ
ture	Material	sample plate		Material is different from	MAJ
	Electropl ate	electr oplati ng	Golden finger degree golden brightness.	The gold plating is not bright, or the gold plating coverage is low	MAJ
perfo rmanc e	forced jointing	chassi s	FPC is pasted on its enclosure consistent with the preset pasting position.None.	FPC is pasted on its enclosure,Inconsistent with the preset pasting position ,More or less .	MAJ

Formulate:	auditing :	Approve:

RoHS restricted substance composition questionnaire

Information of supplied products												
Customer name		Description of Material/model		entry name		manufacturer				Green material identification		
I	Ruiboxin BT aerial			A316		Shenzhen Kaipushen Communication Technology Co., Ltd				/		
Product composition information												
Order		part name Specification	aampananti	Third party test report		Con	Content of restricted substances PPM					
Number	part name		component supplier	date for	number	(Pb)	(Cd)	(Hg)	(Cr ⁶⁺)	(PBB)	(PBDE	remarks
1	adhesive	3M9471LSE	3M	2021/1/13	SHAEC2100467601	0	0	0	0	0	0	
2	base material	A pair of half electrolytic	Kwai lungeti	2021. 3. 3	SHAEC2103249004	0	0	0	0	0	0	
3	cElectroplate	FPCelectronickell ing	Rongfeng	2021. 4. 25	A2210137408101E	0	0	0	0	0	0	
4	Solder mask black oil	PSM-800	Youli	2021. 9. 6	ETR21805816	0	0	0	0	0	0	
5	Text white oil	KTM-150FWM	Kaiyao	2021. 5. 18	ETR21502304	0	0	0	0	0	0	

written by: Wuxintuo Filled by: Department: Quality

Salt spray test report

Date: 2021 年 12月 16日

•								
Item	A316-BT aerial		Customer	Ruiboxin				
Supplier	Shenzhen Kaipushen Communication Technology Co., Ltd		National Test standard	GB/T 2423. 2-2008				
Sample	Sample qty: 5PCS							
situation	Base material:Hal	Coating: Gold plated≥3U"						
Test time	2021年12月13日 9时 00 分至 2021 年12月15日 9时 00 分 共计 48 H							
Test type:	■ NSS		□ ASS	□ CASS				
	Salt solution:	PH:7.0						
	Chamber temp: 3	Relative humidity: 85%						
Test condition	Spray way: C	Compressed air pressure: 1kg/cm²						
	Salt spray sed 2m1/80cm2/h	Fog fluid collection: 1.4m1/80cm2/h						
	Test cycle:1	Spray time: 48 h						
	Appearance after test:appearance intact, without obvious change							
Test results	Coating: no spalling, no rust							
	Surface spraying, silk screen: no falling off, no bubbles.							

Explanation:

- 1. Salt spray test operating standards in accordance with the People's Republic of China national standard GB/T2423.17-2008 implementation.
- 2. The test piece results are determined according to the national standard GB/T6451-02 of the People's Republic of China.

Operator by/date: Jian Chen Approved by/date: : Wu Xingtuo 2021.12.16

High-low temperature test record

Product name		A	Customer name		Ruiboxin				
Test qtu		6 pcs		Test date		2021年12月13日			
Cycle number		1			me		48H		
TestCondition:									
High temp: + <u>65</u> degree Humidity: <u>90</u> % RH									
Low temp:/_ 度 degree									
Test time	Test time: high temp: <u>48</u> H low temp: <u>/</u> H								
Test item		Uncyc]	led test			Cycled	test		
No	Afte	r high temp	After low te	mp	After high temp		After low temp		
1		OK	/						
2	OK		/						
3	OK		/						
4	OK		/						
5	OK		/						
6	ОК		/						
After test deficiency:									
Reason analysis:									
Improvement measures:									
Test results: ✓ Pass ☐ Fail									

Packing

Customer:	Ruiboxin	Material name:	A316-BT aerial		
packing qty:	one carton	Packing material:	Carton		
Qty/carton:		Packing way :	Ziplock bag		



Picture 1:Single package



Picture 2: Packing way



Picture 3: Packing view (front, side, top)



Picture 4:packing label

auditing: LiMinghui

Fiction: Wu Xingtuo