Shenzhen 1	Kaipushen	Communicat	tion Techno	ology Co.,					
	АР	PROVAL SHI	EET						
CUSTOMER	Shenz	zhen Horn Acc	oustics Co.,	Ltd					
DESCRIPTION A855-L/BT天线/A855-L/BT antenna									
REV. NO V1. 0									
H11010002120 IN098_RF_L, V1. 0 CUSTOMER PART. NO									
CUSTOMER PART. NO 080. A855L. 10161									
Delivery date		2025-02-	-12						
Supplier's address			ffice Building, Lor Avenue, Longhua Di						
Supplier's phone n	umber:								
Customer acknowledges									
CUSTOMER APPROVAL									
SQE	research and development	CMF	environment protection	purchase					
	-								
Samples are provided									

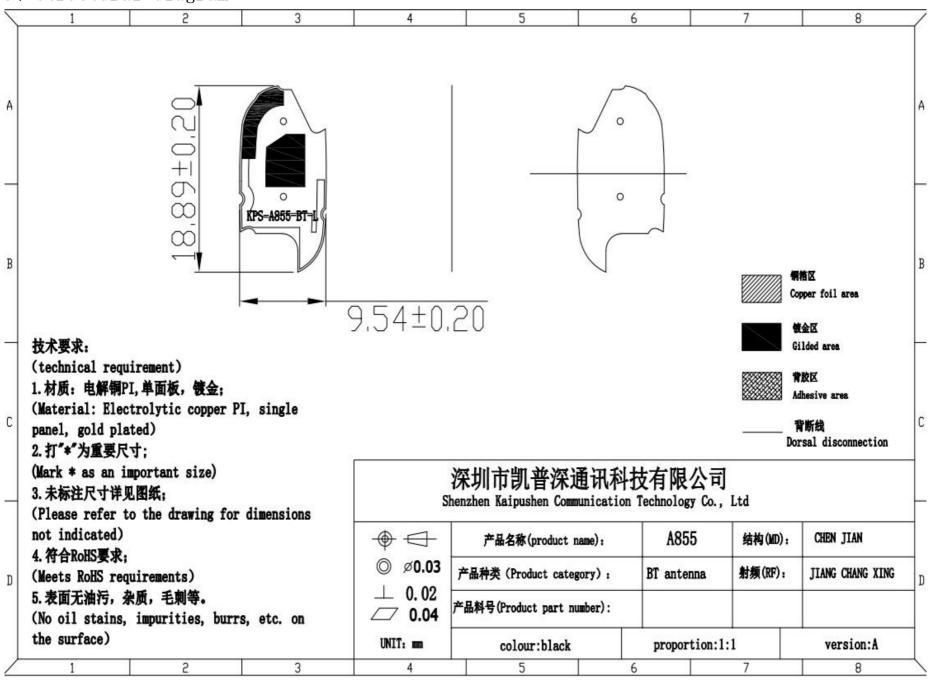
SAMPLE PR VIDE									
make	ake engineering quality environment approve								

FORM-H1332(1.0)

Table of contents

- 1, Cover
- 2, Contents
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- 4, Aerial data
- 5, Full dimensional measurement report
- 6. Qc Engineering drawing
- 7. Inspection specification
- 8. Rohs Information
- 9, Environmental Statement
- 10. Salt spray test report
- 11, High-low temperature test
- 12, Package

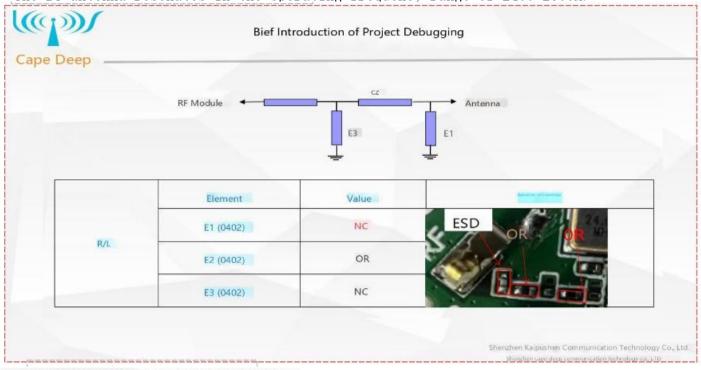
3, Structural diagram



5.1 Electrical performance

5.1-1 Specification standards

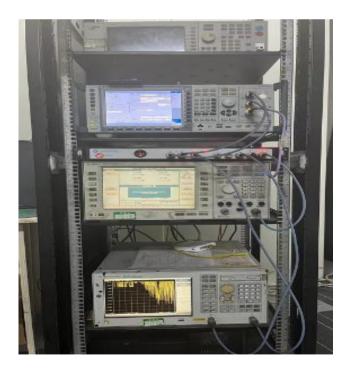
The BT antenna resonates in the operating frequency range of 2400-2500M.



5.1-2 Matching Circuits for Antennas .

5.1-2 darkroom equipment





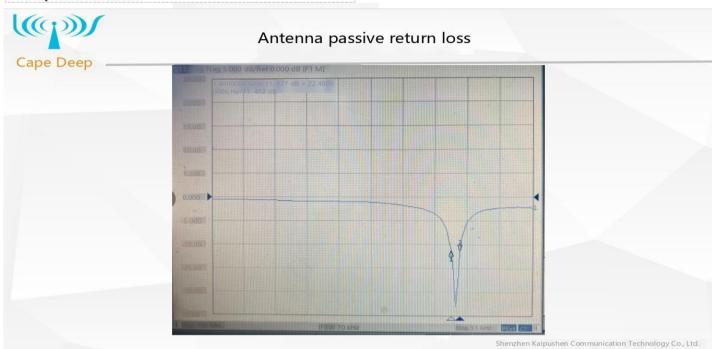
6.2 Standing Wave Ratio (SWR) Test

6.2-1 Test Setup

The Standing Wave Ratio (SWR) test setup is sequentially connected as follows: E5071B Network Analyzer \rightarrow 50 ohm coaxial cable \rightarrow 150mm long copper tube \rightarrow test fixture.

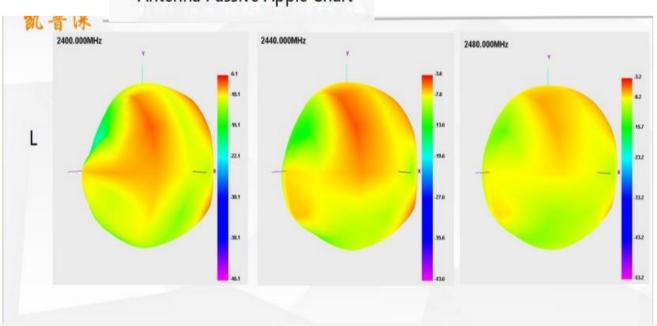
Test fixture processing: from the cell phone PCB antenna 50 ohm test point with a rigid cable leads to the SMA-J connector and a set of copper tube with a choke connection, and then connected to other devices in turn.

6.2-3 passive test results

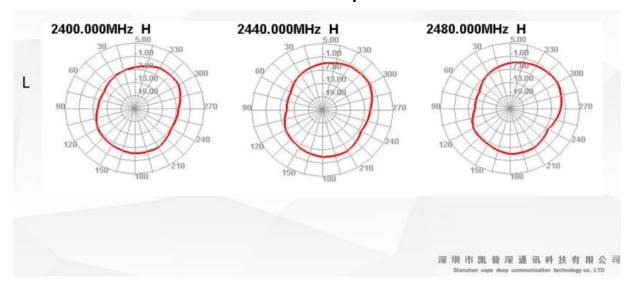


6.2-4 whole machine passive data

Antenna Passive Apple Chart



2D directional map



Free space efficiency of antenna darkroom

	Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
	2400	25.04	-6.01	-0.4
	2410	23.36	-6.32	-0.27
L	2420	24.2	-6.16	0.23
	2430	25.17	-5.99	0.04
	2440	22. 99	-6.38	-0.81
	2450	21.33	-6.71	-1.71
	2460	22.44	-6.49	-1.7
	2470	22. 43	-6.49	-1.52
	2480	25. 59	-5.92	-0.75

Free space active data

Test		Bluetooth	TRP	Test	1	Bluetooth TRP			
Result	0	39	78	Result	0	39	78		
Frequency (MHz)	2402	2441	2480	Frequency (MHz)	2402	2441	2480		
Txp Ave(dBm)	0.37	4.6	4. 06	Txp Ave (dBm)	0. 11	3. 9	3.8		
Test		Bluetooth	TIS	Test	1	Bluetooth	TIS		
Result	0	39	78	Result	0	39	78		
Frequency (MHz)	2402	2441	2480	Frequency (MHz)	2402	2441	2480		
Sens Ave(dBm)	-85. 3	-86. 5	-85.8	Sens Ave(dBm)	-84. 9	-86. 4	-86. 1		

environmental treatment

assembled in accordance with the environment of the pilot production prototype

Full dimensional measurement report

	Customer	Но	rn	Item	name	A8	55	Specifi	ications			Material	Electrolytic copper
	Supplier	Kemp	Deep	Measur	e tools	Quad	Quadratic		Measure unit mm		Measure date	2025/2/12	
NO.	(DIMENSION)	$\begin{array}{c} \text{uppe} \\ r \\ \text{limi} \\ t \end{array}$	+ TOL.	- TOL.	lowe r limi t	Actual testing 1	Actual testing 2	Actual testing 3	Actual testing 4	Actual testing 5	Actual testing6	UPPER ≤ 100%	LOWER ≤ 100%
1	18.89	19.09	0.20	0.20	18.69	18. 92	18.88	18.85	18. 92	18.88	18.80	15%	45%
2	9.54	9. 74	0.20	0.20	9. 34	9.48	9. 55	9. 58	9.60	9.52	9.53	30%	30%
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													

tabulation: Jian Chen

To examine: XingTuoWU

K	(D) 线专家	and the second			00.			file	number	KPSQ	PA-QA004	Enactment	Date	
^	EX 7 3		nen cape deep commun	nication technology co., LTD	QC _{sche}	edule dr	awing	file	version	A	/01	Page	;	page 1
	hnolog proces		Cont	management method				Inspectio	n method			corrective action		
Order Number	Main Proce	project name	aControl Project	Regulatory standards	person liable	Normal sampling	person in charge	Inspectio n method		Recor	Record type		S	olution
	\searrow	begin												
1	Image: Control of the	Receivi ng	quantity/product name/specifications	《Engineering BOM》 《Material receiving	Material clerk					《Electronic account》		Contact the returning		lier and issue 《
2	\Diamond	Incomin g	specifications/model/	《Engineering BOM》 《Sampling inspection plan	IQC	MA=0.25 MI=0.65	IQC	1. visual 2. Machine	Two dimensional	《IQC incoming inspection record		«IQC incoming inspection record inspection record product and issued at the same time (8D l		labeled as nonconforming
3	\Diamond	materia 1	quantity/product name/specifications	《 production instruction》 《Material receiving	Material clerk					《Material requisition and				
4	,	pack	pack quantity/indicate	《Finished product packaging operation	packager									
5	Ų Ų	Deliver y	product appearance bad record Dimensional test	《Engineering BOM》 《Sampling inspection plan	OQC	MA=0.25 MI=0.65	OQC	1.visual 2.Machine	Two dimensiona	-			If the number of times of the same type of the same type missing in the daily	
6	Ŏ	deliver y	product namespecification	《Finished product shipping operation instruction》	Material clerk					《Electronic account》		188881188 12 388812 111 128812 128 13		
	X	finish												
charac ter	Revision date Revised content		Revised content		Revised;	Acknowl edged	Fiction			auditin	•	appro		
1)						FICTION			g			va1		
2								data			data	_	doto	
3								aate	date		date		date	

Shenzhen Kaipu	Shenzhen Kaipushen Communication Technology Co., Ltd					
	EDC - 4	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
packin	characteristic	visual	The outer package is clearlylabeled, Indicate, product name, specifications, quantity, date,	The identification is not clear and cannot be identified.	MIN
g	Matter	visual	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
appeara nce	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 °	MAJ
structu	measurement	vernier caliper	Board size (dimensions) Same as template	The size is different from the sample 。	MAJ
re	Material	sample plate	Same as template	Material is different from template	MAJ
perform	Electroplate	electro plating Machine	Golden finger degree golden brightness, coverage rate	The gold plating is not bright, or the gold plating coverage is low.	MAJ
ance	forced jointing chassis		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

|--|

RoHS restricted substance composition questionnaire

					(Information of st	upplied	products)				
(Custome	er name)	Descri	ption of Mat	erial/model	entry name			manufactur	cer		Green material identification	
Но	orn	n BTantenna A855					Shenzhen	Kaipusher	n Communica Ltd	ation Tech	nology Co.,	/
					(Product composi	tion inf	ormation))				
(Order	nart la company de la company								remarks			
Number)	t Name)	number)	supplier)	date	number	(Pb)	(Cd)	(Hg)	$(\operatorname{Cr}^{6^+})$	(PBB)	(PBDE)	
1	3M adhesive backing	/	3M, USA	2023/12/27	SHAEC23021627701	0	0	0	0	0	0	
2	Kwai Lengti	/	Kwai Lengti	2024/1/12	SHAEC24000428806	0	0	0	0	0	0	
3	Solder resist ink	/	ouli Industr	2024/6/14	ETR24600712	0	0	0	0	0	0	
4	Electropl ating/Gol d Nickel	/	Xinda Sheng	2024/3/26	A2240158803101001E	0	0	0	0	0	0	
5	Character ink	/	Chuan Yu	2023/10/13	ETR23A00862M01	0	0	0	0	0	0	
Note:	1. Please	indicate	whether the d	content of th	e six restricted subs	tances is	compliant	or non-con	npliant by	\bigcirc and \times	; compliance	is indicated by
	2, PPM lin	mit value:	cadmium <100	OPPM; lead/me	rcury/hexavalent chron	mium/PBB/P	BDE <1000P	PM.				
	3. The to	tal amount	of lead, her	xavalent chro	mium, mercury and cad	mium in pa	ckaging ma	terials sh	nall not ex	ceed 100	ppm.	
		orm should scanned PD	_	d in full and	stamped by the suppl:	ier; here	the suppli	er refers	to the dir	rect tradi	ng party. (P	rovide stamped

Salt spray test report

Date: 2025 年 0	2月 12日								
product name	A855		Customer	Horn					
Supplier	Shenzhen Kaipus Communication Tech Co., Ltd		National Test standard	GB/T 2423. 2-2008					
Sample			Sample qty: 5PCS						
situation			Coating: Gold plated ≥0.5	5U″					
Test start and end time	From 9:00 am on 2025, a total o		ary 10, 2025 to 9:00 sours	am on February 12,					
Test type	■ NSS		□ ASS	□ CASS					
	Salt solution:	5%	PH:7.0						
Test condition	Chamber temp: 3	5°C		Relative humidity: 85%					
	Spray way: ■Cintermittent	ontinuc	Compressed air pressure: 1kg/cm ²						
	Salt spray sedi 2m1/80cm2/h	mentati	Fog fluid collection: 1.4m1/80cm2/h						
	Test cycle:1	_cycle	Spray time: 48h						
	Appearance afte	r test:	appearance intact, w	ithout obvious change					
Test results	Coating: no spalling, no rust								
	Surface sprayin	g, silk	s 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 Appro	ved by/d	ate: XingtuoWU						

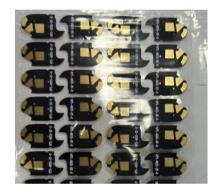
High-low temperature test record

		might i	ow temper	atu	16 6	20 16001	<u>u</u>		
Product	name	A	855		stomer name]	Horn		
Test o	qtu	6	pcs	Tes	t date	2025	年2月12日		
Cycle nu	ımber		1		`ime		48H		
TestCondi	ition:								
High temp	p: +	65degrees	Humidity:	90	% RH				
Low temp: - 25 度degree									
Test time	e: hi	gh temp:	48 H low te	mp:	48 H				
Test item Uncycled test Cycled test									
No	No After high temp After low temp				After high temp After low temp				
1		OK	/						
2		OK	/						
3	OK		/						
4		OK	/						
5		OK	/						
6		OK	/						
After t	est d	eficiency:							
Reason	analy	sis:							
Improvement measures:									
Test re	sults	:	√ Pass	F	`ail				

To examine: XingTuoWU

(Packing)

Customer:	Horn	Material name	FPC aerial
packing qty	one carton	Packing material	Carton
Qty/carton		Packing way	Ziplock bag (Single packaging of blister discs for adhesive assembly)



Picture 1:Single package



Picture 2: Packing way



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



Picture 4:packing label

notes: If the antenna needs to be attached for processing, it should be packaged and shipped according