

Shenzhen Kaipushen Communication Technology Co., Ltd

Sample approve sheet

Customer: Leqi

Item name: 3262

Sample name: ZigBee aerial -1

Description/color: black

Release Date: 2022/6/23

Supplier confirmed	Make	R&D	Structure	Quality
	Liu Xiao meng 2022-07-22			

Customer confirmed	Item	Appearance	Structure	Quality

Conclusion	<input type="checkbox"/> MP use <input type="checkbox"/> Limited use () K
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ROHS

Supplier name: Shenzhen Kaipushen Communication Technology Co., Ltd

Supplier address: 2nd Floor, Building 1, Yulong Building, Longcheng Industrial Zone, No.440, Longguan Avenue, Longhua District, Shenzhen

Tel: 0755-29351613

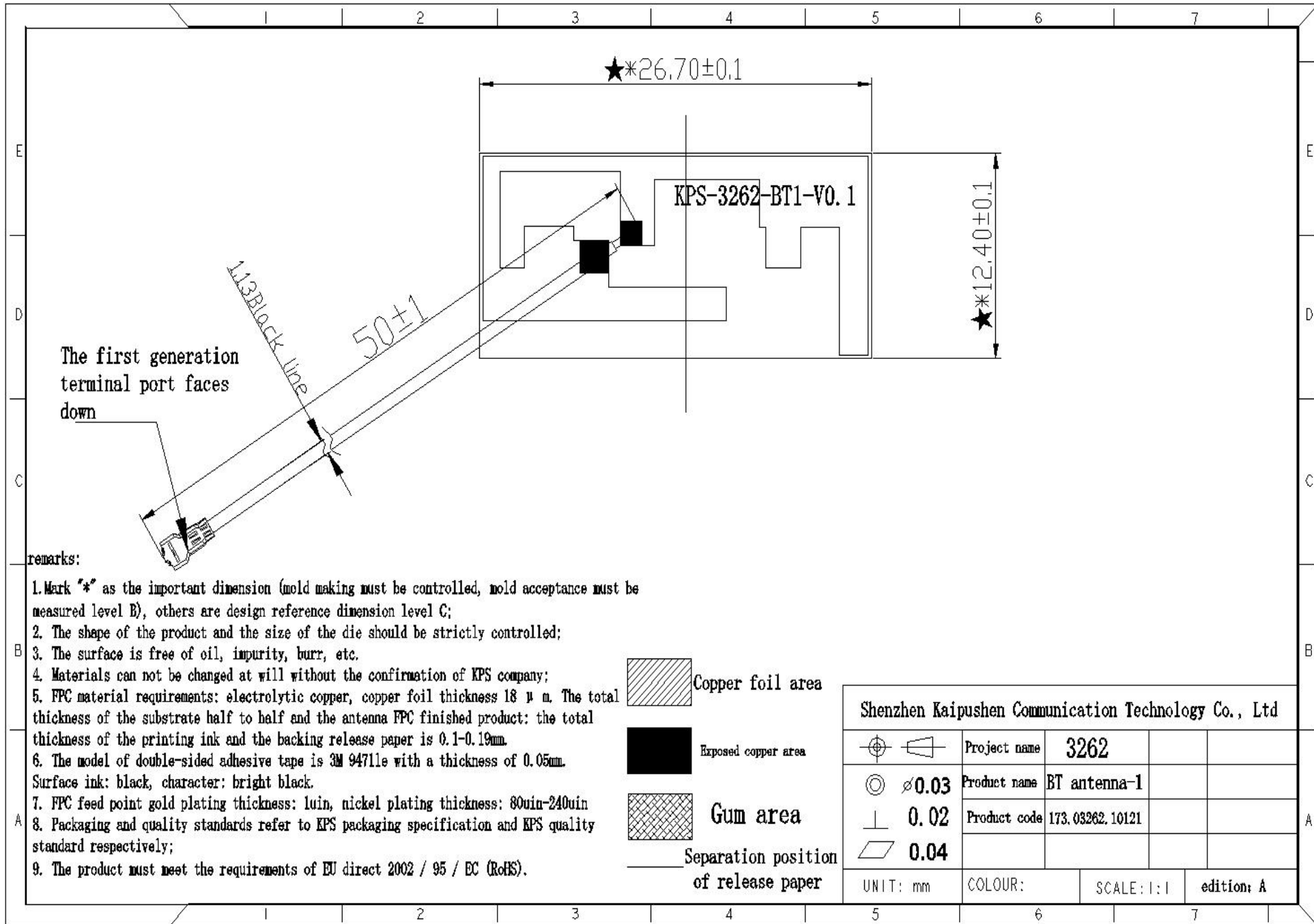
Fax: 0755-29351510

E-mail: szkpstx@szkpstx.com

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3. ICD Drawing(BT aerial)
4. Aerial data
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3. ICD Drawing




remarks:

1. Mark "*" as the important dimension (mold making must be controlled, mold acceptance must be measured level B), others are design reference dimension level C;
2. The shape of the product and the size of the die should be strictly controlled;
3. The surface is free of oil, impurity, burr, etc.
4. Materials can not be changed at will without the confirmation of KPS company;
5. FPC material requirements: electrolytic copper, copper foil thickness 18 μm. The total thickness of the substrate half to half and the antenna FPC finished product: the total thickness of the printing ink and the backing release paper is 0.1-0.19mm.
6. The model of double-sided adhesive tape is 3M 94711e with a thickness of 0.05mm. Surface ink: black, character: bright black.
7. FPC feed point gold plating thickness: 1μin, nickel plating thickness: 80μin-240μin
8. Packaging and quality standards refer to KPS packaging specification and KPS quality standard respectively;
9. The product must meet the requirements of EU direct 2002 / 95 / EC (RoHS).

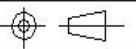
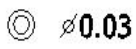
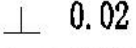

 Copper foil area

 Exposed copper area

 Gum area

 Separation position of release paper

Shenzhen Kaipushen Communication Technology Co., Ltd

	Project name	3262		
	Product name	BT antenna-1		
	Product code	173.03262.10121		
				

UNIT: mm COLOUR: SCALE: 1:1 edition: A

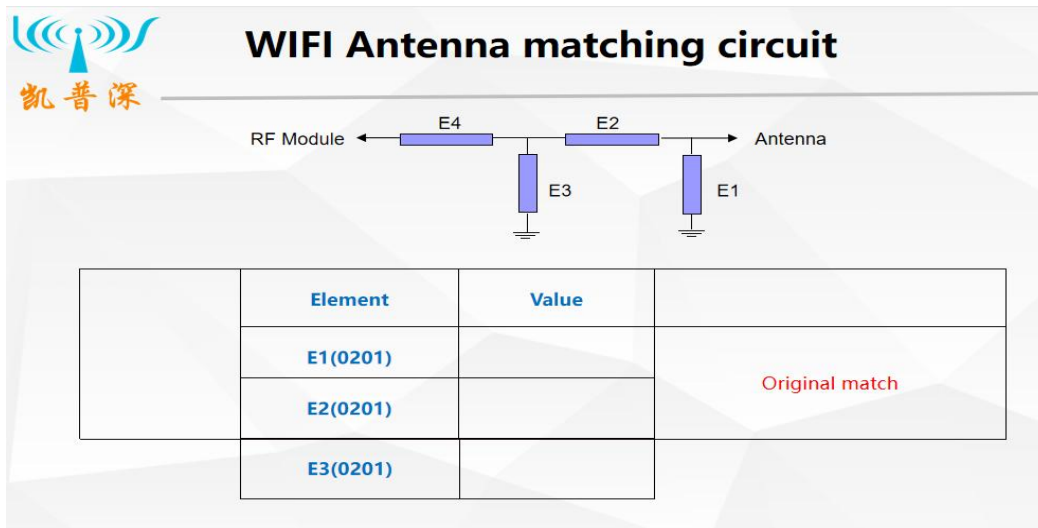
4.1 Aerial function

4.1-1 Specificatin standard

The working frequency band of wifi antenna produces resonance at 2400m-2500m

4.1-2 Matching circuit of antenna.

The antenna matching circuit is as follows:



4.2 Standing wave ratio test (VSWR) :

4.2-1 Test settings

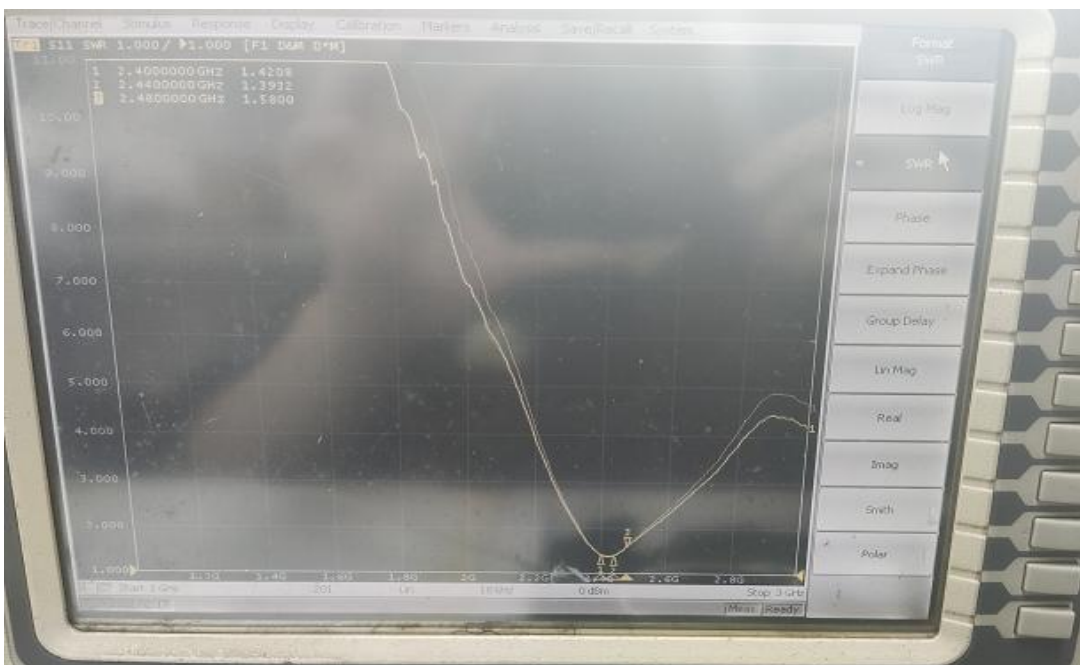
The standing wave ratio test device is connected in turn: E571BNetwork analyzer→50Coaxial line of OhmCable→150mmlong copper pipe→test fixture.

Treatment of test fixture: Use a hard cable to lead out from the 50 ohm test point of the antenna on the PCB of the machine u...SMA-JThe joint is connected with the copper pipe with choke ring, and then connected with other devices.

4.2-2 Voltage standing wave ratio test :

The following table shows: WIFISTanding wave ratio of edge frequency points of antenna operating frequency band:

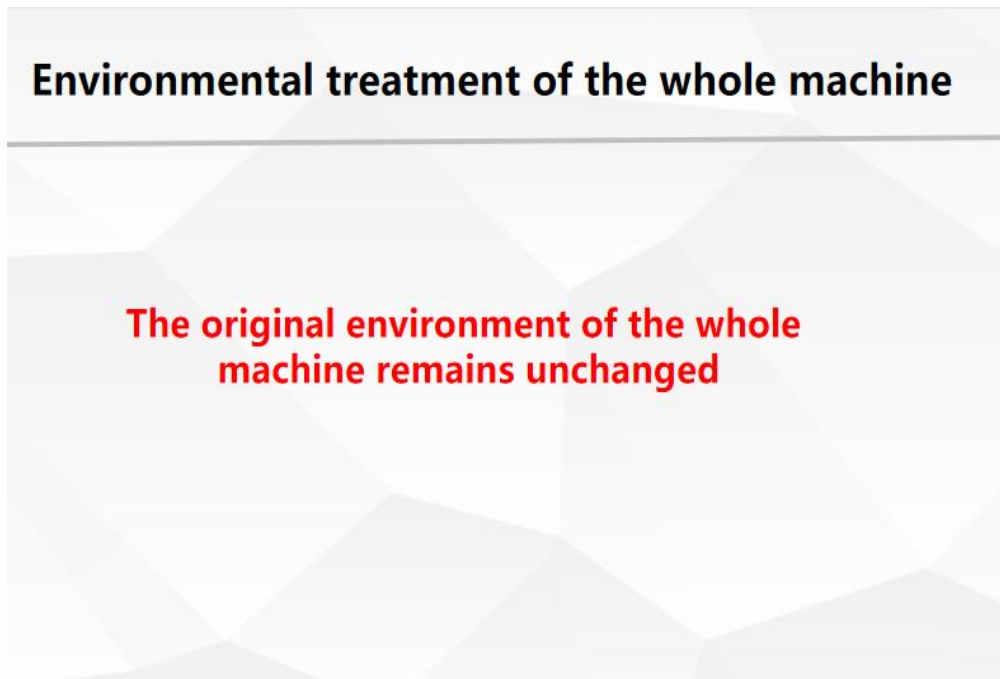
Fre (MHZ)	2400	2450	2500
VSWR	1.1	1.2	1.7



4.2-3 Passive test results

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	37.94	-4.21	2.17
2410	39.2	-4.07	2.37
2420	30.06	-5.22	0.76
2430	32.73	-4.85	1.3
2440	36.92	-4.33	1.92
2450	37.91	-4.21	2.13
2460	38.85	-4.11	2.23
2470	39.66	-4.02	2.57
2480	37.36	-4.28	2.46
2490	37.29	-4.28	2.52
2500	34.28	-4.65	2.22

4.3 Environmental manipulation:



Full dimensional measurement report

NO.	Customer	Leqi				Item name 3262							Material	Electrolytic copper
	Supplier	Kaipushen		Measure tools		Quadratic		Measure unit			MM		Measure date	2022/7/28
	dim	URL	+ TOL.	- TOL.	LR	actual 1	actual 2	actual 3	actual 4	actual 5	actual 6	actual 7	UPPER ≤ 100%	LOWER ≤ 100%
1	26.70	26.80	0.10	0.10	26.60	26.72	26.71	26.71	26.68	26.72	26.68	26.68	20%	20%
2	12.40	12.50	0.10	0.10	12.30	12.38	12.38	12.42	12.41	12.42	12.42	12.41	20%	20%
3														
4														
5														
6														
7														
8														
9														
10														
11														

Tabulation: Jian Chen

Examine and Verify :Wu Xingtuo

Salt spray test report

Date: 2022 年 07 月 28日

Item	3262-FPC aerial	Customer	Leqi
Supplier	Shenzhen Kaipushen Communication Technology Co., Ltd	National Test standard	GB/T 2423.2-2008
Sample situation	Sample qty: 5PCS		
	Base material:Half to one-third electrolytic copper with glue		
Test time	Total 24H		
Test type:	<input checked="" type="checkbox"/> NSS	<input type="checkbox"/> ASS	<input type="checkbox"/> CASS
Test condition	Salt solution: 5%		PH:7.0
	Chamber temp: 35° C		Relative humidity: 85%
	Spray way: <input checked="" type="checkbox"/> continuation <input type="checkbox"/> intermittence		Compressed air pressure: 1kg/cm ²
	Salt spray sedimentation rate: 1-2ml/80cm ² /h		Fog fluid collection: 1.4ml/80cm ² /h
	Test cycle: __1__ cycle		Spray time: 24 h
Test results	Appearance after test:appearance intact, without obvious change		
	Coating: no spalling, no rust		
	Surface spraying, silk screen: no falling off, no bubbles.		
<p>Explanation:</p> <p>1、 Salt spray test operating standards in accordance with the People's Republic of China national standard GB/T2423.17-2008 implementation.</p> <p>2、 The test piece results are determined according to the national standard GB/ T6451-02 of the People's Republic of China.</p>			
Operator by/date: Jian Chen Approved by/date: Wu Xingtuo 2022.07.29			

High-low temperature test record

Product name	3262	Customer name	Leqi	
Test qtu	5 pcs	Test date	2022年7月28日	
Cycle number	1	Time	24H	
<p>Test Condition:</p> <p>High temp: + <u>65</u> degrees Humidity: <u>90</u> % RH</p> <p>Low temp: - <u>/</u> degree</p> <p>Test time: high temp: <u>24</u> H low temp: <u>24</u> H</p>				
Test item	Uncycled test		Cycled test	
No	After high temp	After low temp	After high temp	After low temp
1	OK	OK		
2	OK	OK		
3	OK	OK		
4	OK	OK		
5	OK	OK		
6	OK	OK		
After test deficiency::				
Reason analysis:				
Improvement measures:				
Test results: √ Pass Fail				

Packing

Customer:	Leqi	Material name:	3262-FPC 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

Fiction: LiMinghui

auditing: Wu Xingtuo