

Shenzhen Kaipushen Communication Technology Co., Ltd Sample approve sheet

Customer: Leqi

Item name: 3263

Sample name: ZigBee aerial -2

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 MP use Limited use () K

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

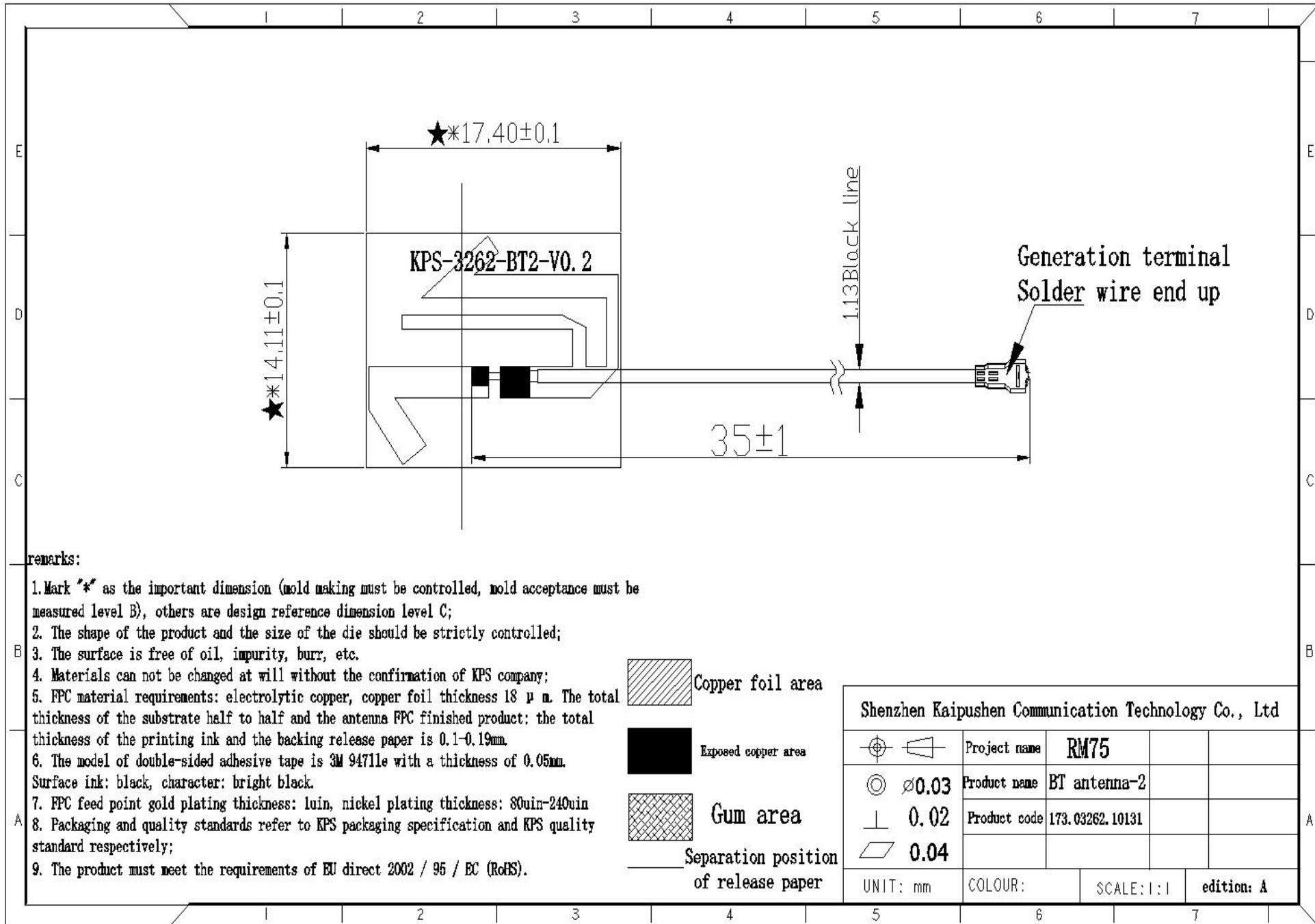
Fax: 0755-29351510

E-mail: szkpstx@szkpstx.com

Contents

1. Cover
2. Contents
3. ICD Drawing(BT aerial)
4. Aerial data
5. Full dimensional measurement report
6. Salt spray test report
7. High-low temperature test
8. Package

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 μ m. 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: 1uin, nickel plating thickness: 80uin-240uin
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 / 96 / EC (RoHS).

Copper foil area

Exposed copper area

Gum area

Separation position of release paper

Shenzhen Kaipushen Communication Technology Co., Ltd

		Project name	RM75		
	∅0.03	Product name	BT antenna-2		
	0.02	Product code	173.03262.10131		
	0.04				

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

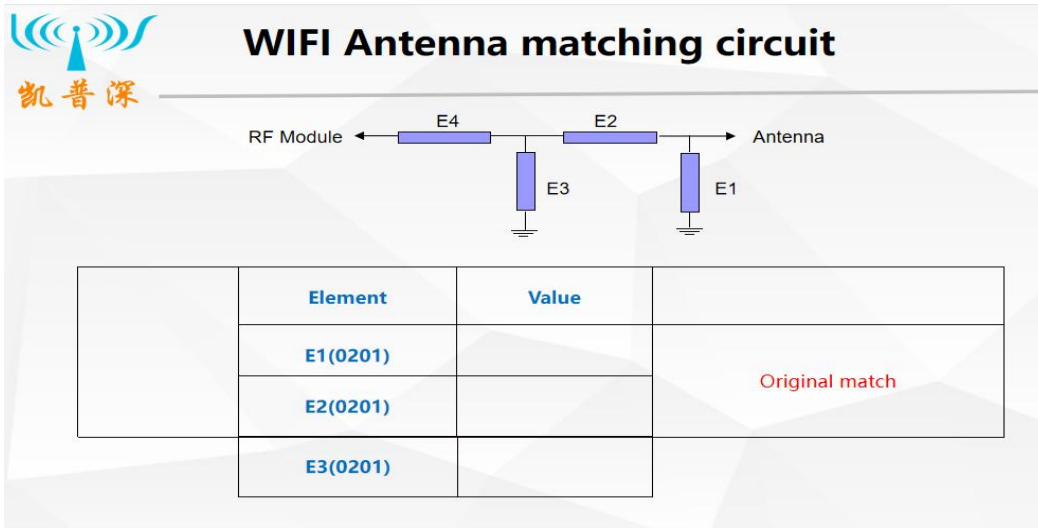
4.1 Aerial function

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

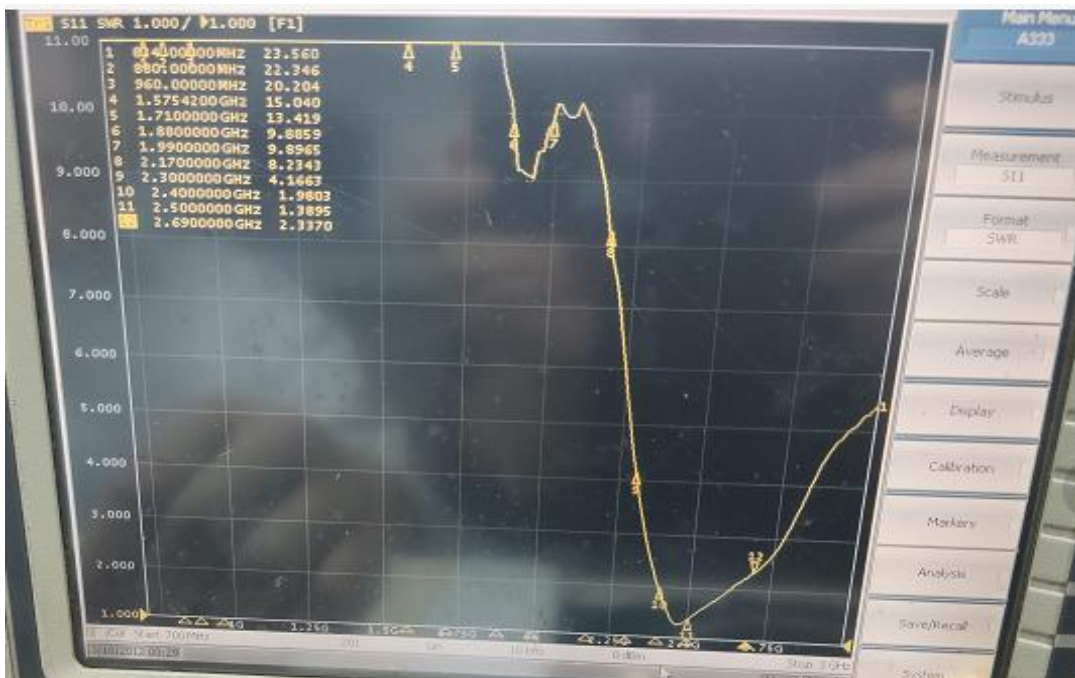
The standing wave ratio test device is connected in turn: E571BNetwork analyzer→50Coaxial line of OhmCable→150mmlong copper pipe→test fixture.

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:

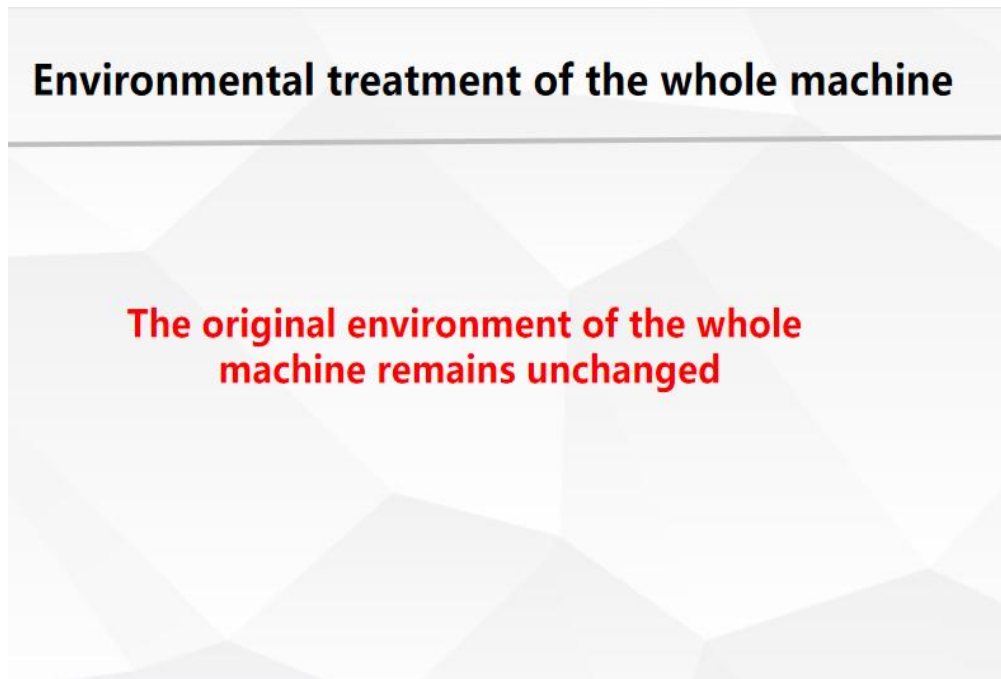
Fre (MHZ)	2400	2450	2500
VSWR	1.5	1.3	1.6



4.2-3 Passive test results

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	30.07	-5.22	-0.17
2410	29.3	-5.33	-0.22
2420	30.19	-5.2	0.05
2430	32.07	-4.94	0.31
2440	31.38	-5.03	0.23
2450	32.1	-4.93	-0.34
2460	32.76	-4.85	-0.01
2470	32.05	-4.94	-0.07
2480	30.06	-5.22	0.76
2490	32.73	-4.85	1.3
2500	36.92	-4.33	1.92

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	17.40	17.50	0.10	0.10	17.30	17.41	17.38	17.38	17.37	17.42	17.42	17.42	20%	30%
2	14.11	14.21	0.10	0.10	14.01	14.09	14.13	14.13	14.13	14.09	14.08	14.09	20%	30%
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