

acknowledgement

Product Description

:
Manufacturer:Shenzhen Yusheng Communication Equipment Co., LTD
Material name:
Material code:
Version No. : R:a

Project Model:

KS2

Spec/Color: White

Date of signature: 2023-08-04

Remarks :(This cover needs to be stamped with supplier's seal)

Lay down QC engineerp sample

p Reliability test report p packing method

Attachment:

Instructions for electrical and mec ☐manufacturing flowchart
pCPK report p full size survey report
p Raw Materials List /RoHS report /HF/REACH

Supplier sign and approve

Proposed: Review: Approved:

(All of the above require a hand signature, printing is not allowed)

(Everything that needs to be provided needs to be filled in color)

The above is to be filled out by the vendor and the following by Aidu

	Department	Confirm content				Confirm results	Confirm the person/date
Technical confirmation field	Supplier quality	<input type="checkbox"/> RoHS materials <input type="checkbox"/> Non-Rohs materials	<input type="checkbox"/> Meet the REACH requirements	<input type="checkbox"/> It meets the halogen free requirements	<input type="checkbox"/> Other environmental protection requirements		
	ID of Design Department:	<input type="checkbox"/> ID required by customer	<input type="checkbox"/> Color confirmation	<input type="checkbox"/> Surface workmanship is confirmed	<input type="checkbox"/> Shell, hardware, key material		
	Structural Engineer	<input type="checkbox"/> 2D drawing file size confirmation <input type="checkbox"/> Specifications technical	<input type="checkbox"/> Focus on size marking <input type="checkbox"/> Electrical performance	<input type="checkbox"/> Adaptation verification <input type="checkbox"/> Functions	<input type="checkbox"/> Shell, hardware, key material <input type="checkbox"/> Effect		
	Hardware Engineer	<input type="checkbox"/> 2D drawing file size confirmation <input type="checkbox"/> Specifications technical	<input type="checkbox"/> Focus on size marking <input type="checkbox"/> Electrical performance	<input type="checkbox"/> Adaptation verification <input type="checkbox"/> Functions	<input type="checkbox"/> Shell, hardware, key material <input type="checkbox"/> Effect		
	Research and development quality:	<input type="checkbox"/> Test standards confirmed <input type="checkbox"/> Appearance	<input type="checkbox"/> Specification of dimensions (key dimensions)	<input type="checkbox"/> Reliability verification <input type="checkbox"/> Adaptation Verification	<input type="checkbox"/> Function <input type="checkbox"/> Effect		

al confirmatiProject Mana ☐ Acknowledge the☐ Specifications a☐ Electrical per ☐ Function ☐ effect

Conditions ☐ Formal recognition
☐ Limited recognition
☐ Denial of recognition

Distribution ☐ IQC ☐ Suppliers ☐ Customers ☐ After sales ☐ SQE/ Document Control
☐ Others _____

Catalogue

- 1、 Cover
- 2、 Contents
- 3、 Electrical, mechanical properties descri
- 4、 Packaging information

1. Brief account

1.1 Scope of applicati

This requirement specifies the antenna technical requirements and material requirements specifications for A200 products. This requirement applies to antenna selection, testing and acceptance of A200 products.

1.2 Project basic infor

Antenna name:	ks2
Antenna band:	BT: 2400-2500MHZ
Antenna material:	Electrolytic copper + PI gold-plated
Antenna version:	

2. Technical Metric

2.1 Introduction to test projects and equipment

Detailed list	Test items	Equipment
S11 parameters	Standing wave ratio, echo loss	Network analyzer
Active testing	TRP,TIS	Comprehensive tester, microwave dark room
Passive testing	Gain and efficiency	Network analyzer

2.2.1 Test Instruction

Test tools: Agilent8960 comprehensive tester, R&SCMW500, full-wave far field ETS dark room, high-precision positioning system, its controller and computer with automatic test program

Test environment: temperature 22°C±3°C, humidity 50%±15%

Test method: The DUT is fixed on the center of the turntable with the H side, on the same horizontal line as the center of the speaker antenna. The positioning system enables the DUT to rotate on the whole sphere to meet high-precision three-dimensional positioning. RF instruments, turntable controllers communicate with PCs with automatic test software through the GPIB interface.

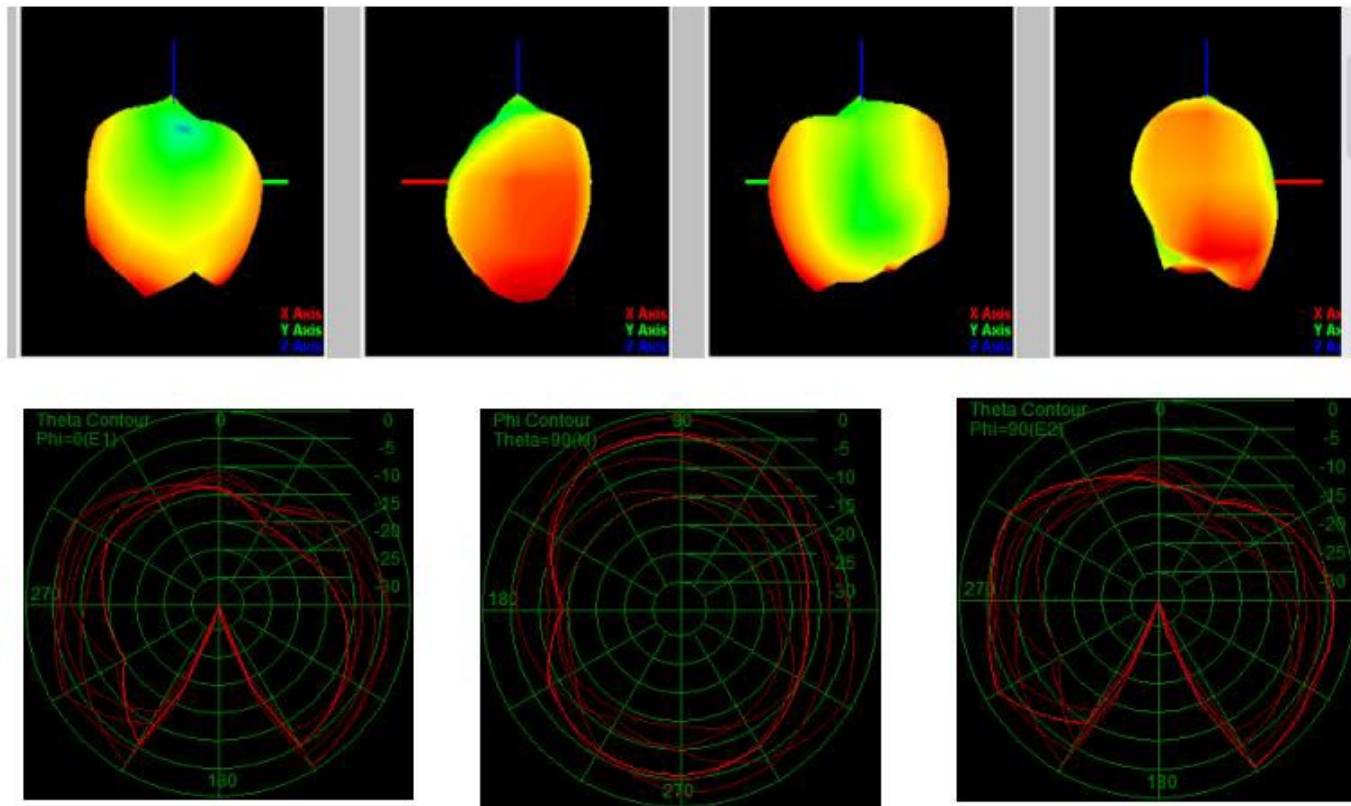
2.2.2 -BT_ antenna S11



Increase profits(dBi): -2.44



2.2.3 Sky direction-FS-No table added



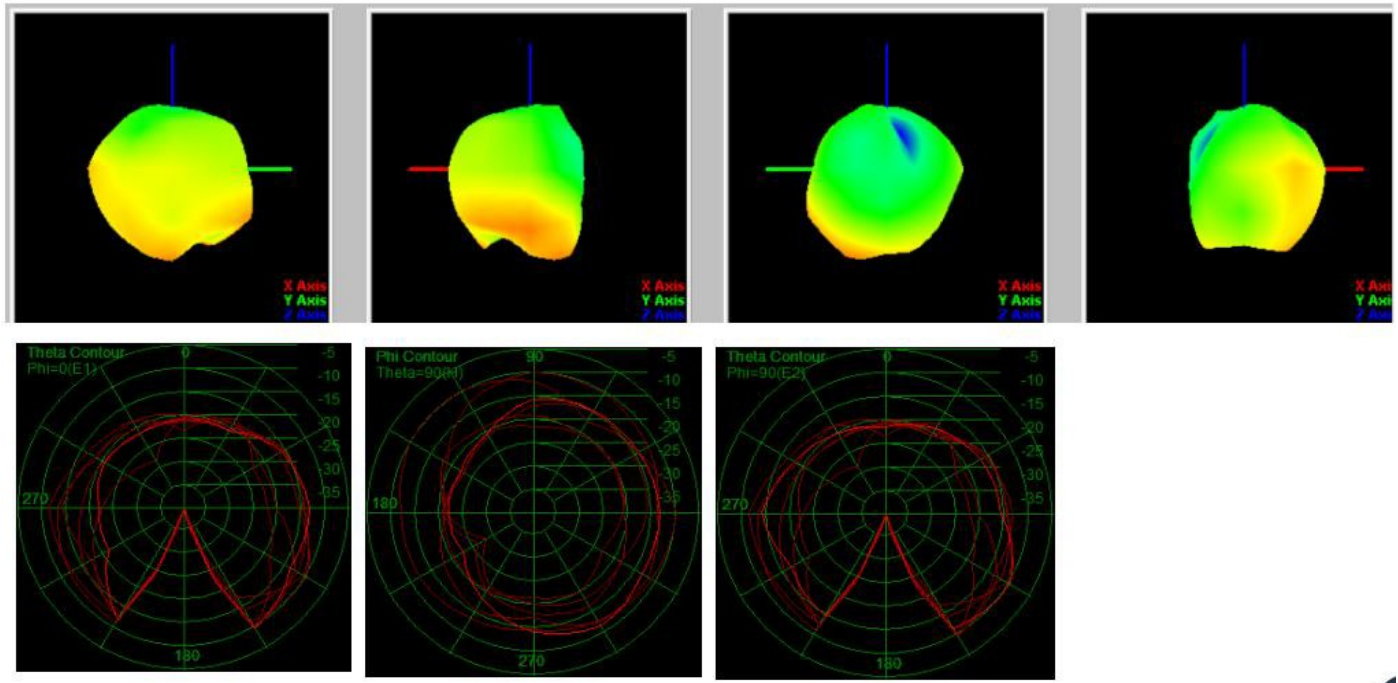
2.2.4 Tianyuan parameter-FS-not added table

Test	ARM								
Test Point ID	1	2	3	4	5	6	7	8	9
Freq. (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480
Efficiency (%)	14.2	15.4	16.7	17.6	16.3	15.5	14.1	13.7	12.4
Efficiency(dB)	-8.5	-8.1	-7.8	-7.5	-7.9	-8.1	-8.5	-8.6	-9.1
Increase profits(dBi)	-3.19	-3.11	-2.82	-2.44	-2.61	-2.74	-2.83	-3.16	-3.27

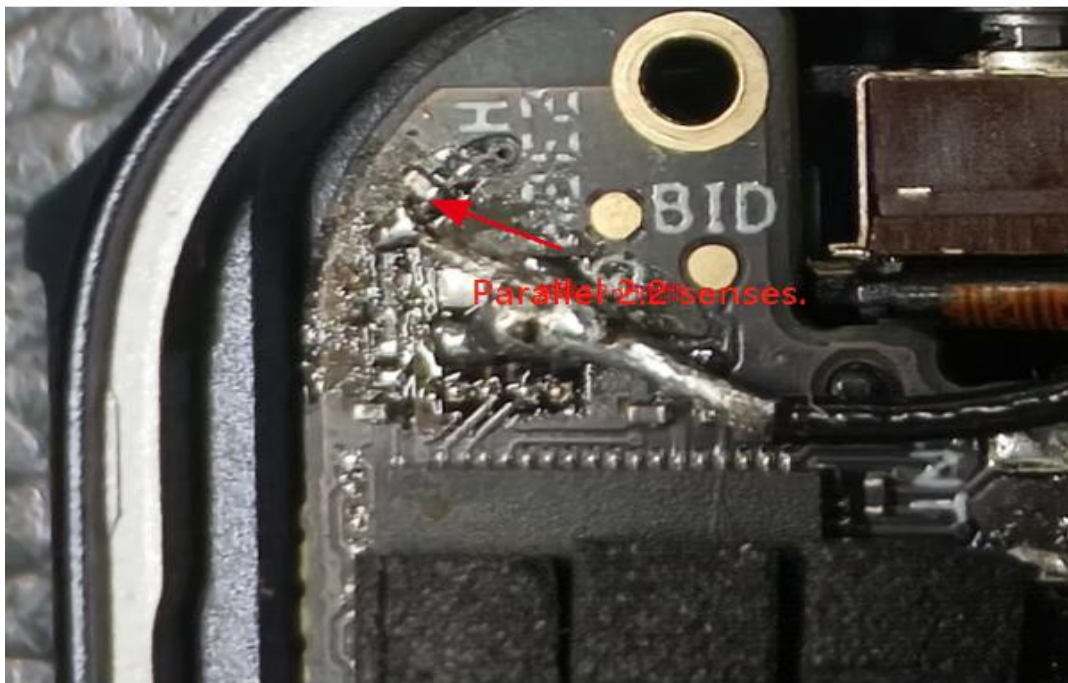
2.2.5 Tianyuan parameter-ARM

Test	ARM								
Test Point ID	1	2	3	4	5	6	7	8	9
Freq. (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480
Efficiency (%)	5.9	6.2	7.7	8.8	9.5	8.2	7.8	6.5	5.8
Efficiency(dB)	-12.3	-12.1	-11.1	-10.6	-10.2	-10.9	-11.1	-11.9	-12.4
Increase profits(dBi)	-6.29	-6.13	-5.93	-5.72	-5.48	-5.59	-5.87	-6.04	-6.19

2.2.6 Heavenly direction



2.2.7 Day matching renewal



2.2.8 Tianjing Construction and Its Improvement



The protective metal sheet is connected with the main board and can be used as a ground extension. And loudspeakers don't need vegetables to the vegetable frame.

2.2.9 Heaven

