

Environmental protection:
RoHS2.0/REACH
Version: A / 0

SPECIFICATION FOR APPROVAL

Customer : Jiahe Intelligent Technology Co., LTD

- Product : antenna-R

Part No.: 300116190296C00

Customer (business) confirmation and reply:

Signature :

PASSED

REJECTED

PRODUCT INFORMATION

Product : FPC antenna

Part No.: CE-2260B

Samples No.:

Drawing No.:

Date: 2026-5-6

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DATE:	DATE:	DATE:

Innovation INNOVATION Trust RELIABILITY satisfaction SATISFACTION



Shenzhen Yusheng Communication Equipment Co., LTD

SHENZHEN YUSHENG COMMUNICATION EQUIPMENT CO., LTD

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Form Number: CO-ENG-031B

CE-2260B Antenna specifications

Customer name: Jiahe Intelligent Technology Co., LTD

Customer name: CE-2260B

Product name: antenna-R

Size of product: Please see the BOM table list for more details

Material code: 300116190296C00

Change Content CV:

order number	edition	state	availability date	person liable	page number	remarks
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The Supplier acknowledges the signature of the following part:

Responsible person / date		IQC/ date	Review / Date	Approval / Date
MD	Bi Yezhi	Su Guanfeng	Zeng Xiang good	
RF	Jiang Mningfei			

The Demander acknowledges the signature (please send it back after confirmation):

The demander the result: ☐ qualified ☐ unqualified			
Development & Design Engineer / Date	SQE Engineer / Date	Purchasing Leader / Date	Development Manager approval / date

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1. Overview

1.1 Scope of application

This requirement applies to CE-2260B Antenna type selection, test, and acceptance.

1.2 Project basic information

Antenna name:	<u>CE-2260B</u>
Antenna frequency:	BT: 2400MHz-2500MHz
Antenna material:	FPC antenna

2. Technical index requirements

2.1 Introduction of test items and equipment

inventor y	test item	equipment
Active test	TRP, TIS	Integrated tester, microwave darkroom

2.2 Active Reporting

2.2.1 Test instructions

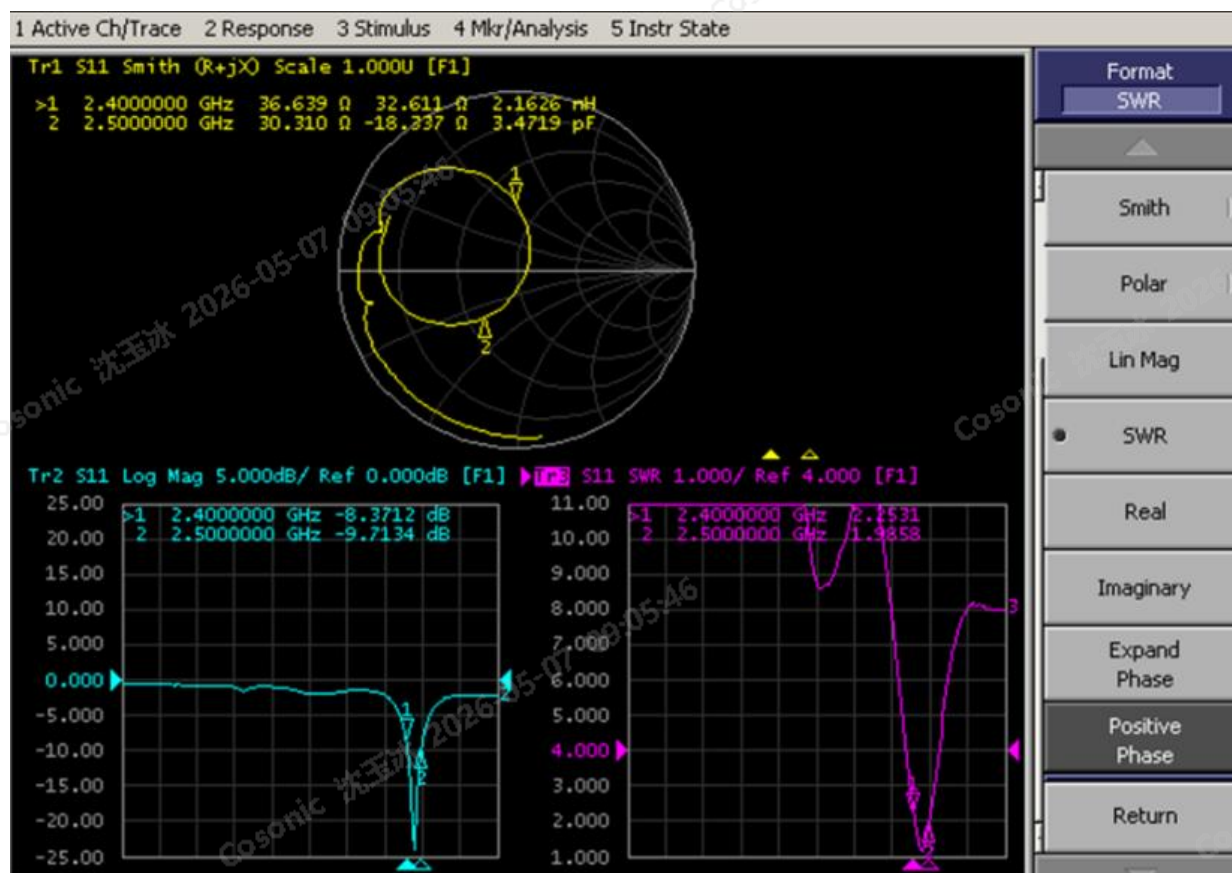
Test tools: Agilent8960 instrument, R & S CMW500, full wave far field ETS dark room, high precision positioning system and its controller and computer with automatic test program

Test environment: temperature $22^{\circ}\text{C} \pm 3^{\circ}\text{C}$, humidity $50\% \pm 15\%$

Test method: DUT is fixed in the center of the turntable with H plane, on the same horizontal line as the center of the horn antenna.

The positioning system enables the DUT to rotate in the whole sphere to satisfy the high-precision 3 D positioning. Each RF instrument and turntable controller communicate with the PC with automatic test software through the GPIB interface

2.2.2 R-Antenna passive parameter S11



2.2.3 L-Antenna passive parameter

自由

头模

Freq	Effi (%)	Gain (dBi)
2400.0	21.33%	-1.27
2410.0	22.67%	-1.02
2420.0	22.46%	-1.07
2430.0	23.35%	-0.83
2440.0	23.81%	-0.54
2450.0	24.20%	-0.33
2460.0	24.19%	-0.25
2470.0	23.54%	-0.37
2480.0	23.28%	-0.79
2490.0	21.73%	-1.10
2500.0	21.51%	-1.22

Freq	Effi (%)	Gain (dBi)
2400.0	8.34%	-4.39
2410.0	8.49%	-4.33
2420.0	8.78%	-4.16
2430.0	9.16%	-3.97
2440.0	9.64%	-3.72
2450.0	10.13%	-2.98
2460.0	10.08%	-3.01
2470.0	9.67%	-3.84
2480.0	9.44%	-3.89
2490.0	9.27%	-4.01
2500.0	9.05%	-4.12

2.2.4 Antenna Active Parameters –freedom

Channel No.	test data/R	
	TRP (dBm)	TIS (dBm)
0	6.49	-89.49
39	5.78	-88.57
78	4.56	-87.06

2.2.5 Antenna Active Parameters – headform

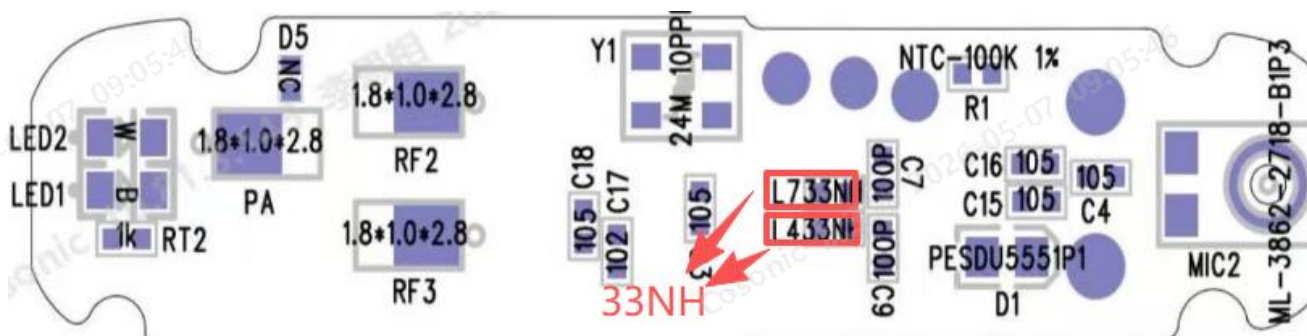
Channel No.	Free space test data/R	
	TRP (dBm)	TIS (dBm)
0	-3.89	-79.34
39	-3.05	-78.27
78	-2.26	-77.32

2.2.6 Lamp Match Change



The left and right ears are matched identically; L7/L4 is fitted with 33NH.

2.2.7 Antenna matching change

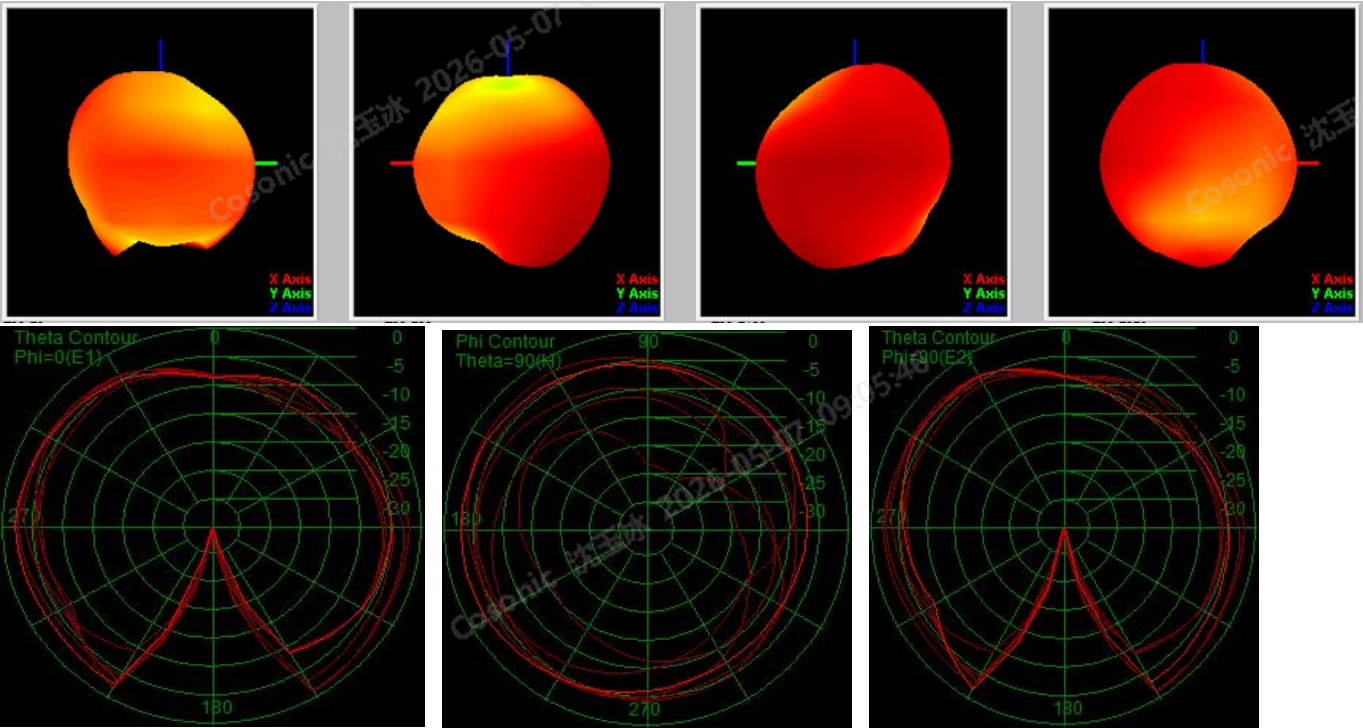


The left and right ears are matched identically; L7/L4 is fitted with 33NH.

2.2.8 Antenna measured data

test method:	1. Distance Test: Connect the smartphone to Bluetooth headphones and place the device on a non-metallic stand 60 cm high. The tester wears the headphones while walking at a distance and rotates 360 degrees. Determine the maximum distance at which call and music audio from the headphones remain uninterrupted.	
Test site :	In the open area outside our building (see test environment)	
testing facility :	S9+	
test result :	listen to music	The antenna spacing test result is approximately 11 meters.

2.2.9 Apple Image-R



3. Structural drawings

R antenna

					1	2	3	4	5	6	7	8			
A															
B															
skills requirements:															
1. PCB substrate specifications:		PI substrate: 1.0 mm													
2. Electroplating specifications:		Double-sided copper: 0.5oz(20~47μm)													
3. Surface ink requirements:		Nickel plated: 38um Surface ink color: Medical grade White Black Ink Printing font color: White Printing font height: According to drawings													
4. Reliability requirements:		1. Reliability test: salt spray test(rubber friction test)(alcohol resistance test)(100 grid test). 2. The front ink, the surface of the ink is required to be folded in half without cracking, scratching, etc.													
5. Tolerance requirements:		1. Shape tolerance ±0.15; 2. Copper foil circuit tolerance ±0.05; 3. The position of the copper foil to the shape is ±0.15; 4. Hole-to-hole position tolerance ±0.10; hole-to-shape position tolerance ±0.15; 5. The size tolerance of gold finger is ±0.20. 6. For other unmarked dimensions, refer to 2D drawings.													
6. Key control size:		The dimensions marked with numbers are regarded as important dimensions, and the others refer to 2D drawings													
7. Environmental requirements:		Parts meet MGS2.0(RF/Meach)/? environmental protection requirements													
8. Packaging requirements:		Roll paper without release paper packaging													
DATE		Modify the content		Version		Revise									
1		2		3		4		5		6		7		8	
														Shenzhen Yu Sheng Communication Equipment Co., Ltd.	
														Model	
														Name	
														Part NO	
														Material quality	
														Mold surface treatment:	
														Appearance treatment	
														Approval	
														Confirm	
														UNIT	
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														R.A	

Gold plated Area



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4. List of materials



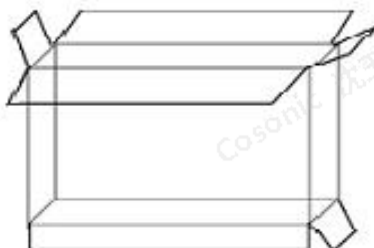
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095034 (CE-2260B) BOM

Edition : T:A client : 095 Type of airTCft : 095034 Set a date : 2025/12/06

NO.	*Material code	*Material name	name	*Machine type	Specification and model	colour	*UNIT.	dosage	remark
2	095034 -IB-RA	R antenna		CE-2260B	Black R-Style FPC with 1-Side Half-Half ETP Copper & Selective Gold 21.29*3.70*0.22MM	black	PCS	1	
2.1	095034 -IB-01-RA	R-FPC		CE-2260B	Black R-Style FPC with 1-Side Half-Half ETP Copper & Selective Gold 21.29*3.70*0.22MM	black	PCS	1	
verify : examine : manufacture : BYZ									

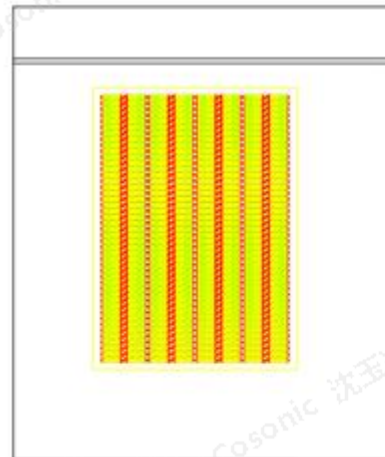
5. Package schematic diagram

Packaging method diagram		
product name	antenna	
Project model	CE-2260B	
File details	Carton Size 1: 270*260*200MM Carton Size 2: 260*200*200MM Carton Size 3: Depending on the order quantity / volume	
	Boating method	The minimum package of 100 bags, in turn with waterproof bags, a waterproof bag with up to 1000 materials
	Total number of binning	Packaging by order quantity
labeling requirement	Tag Size 1: Universal use 100 * 100mm Tag Size 2: According to customer requirements	
matters need attention		
1. Due to the limitation of order quantity, the packing method of each material is the size of the box according to the total quantity of the order or the physical volume		
2. Storage temperature: room temperature		
3. Storage conditions: store them in a cool and dry place		

1、小包装

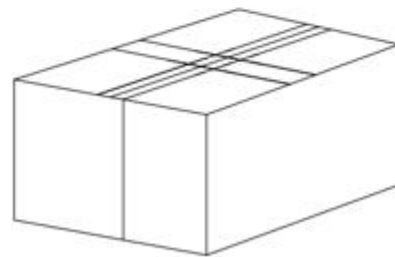
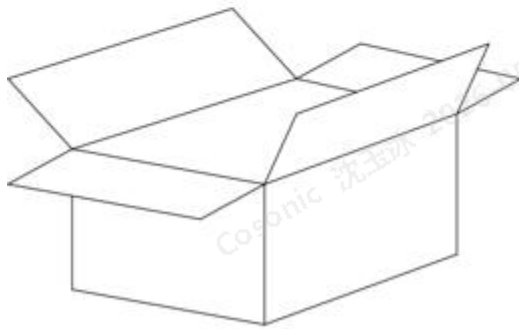


FPC antenna (full plate half cut shipment): 250*198



PE bag 5000PCS antenna

2、大包装



One box of 1-16 bags | 5000-80000pcs antenna |

3. Note :FPC products are manufactured by micromucous membrane.

Quantity of small package :5000PCS/ bag;

Large package quantity :5000-80000PCS/ box.

4. Precautions

4.1 The storage of products should ensure that the ambient temperature is $-10^{\circ}\text{C}\sim 24^{\circ}\text{C}$, the humidity is less than 90%, there is no rain leakage in the warehouse, the ground should be moisture-proof, and the acid fog and salt spray around the warehouse should be avoided Corrosion. The shelf life of the product is 180 days;

4.2 The product can be transported by land, water or air, and should be rainproof during transportation;

4.3 Stacking requirements :XXX;

(Other examples: It is strictly prohibited to throw, throw, etc... Require)