

2.2.2 Antenna efficiency and gain

Left ear antenna efficiency and gain			
frequency point (MHz)	workpiece ratio (%)	workpiece ratio (dB)	Gain (dBi)
2400	24%	-6.38	-2.21
2410	25%	-6.38	-1.95
2420	26%	-6.38	-1.80
2430	28%	-6.38	-1.71
2440	27%	-6.38	-1.50
2450	29%	-6.38	-1.33
2460	28%	-6.38	-1.40
2470	27%	-6.38	-1.65
2480	25%	-6.38	-1.71
2490	25%	-6.38	-1.86
2500	23%	-6.38	-2.01

Right ear antenna efficiency and gain			
frequency point (MHz)	workpiece ratio (%)	workpiece ratio (dB)	Gain (dBi)
2400	23%	-6.38	-2.01
2410	24%	-6.20	-2.21
2420	25%	-6.02	-1.88
2430	27%	-5.69	-1.74
2440	29%	-5.38	-1.46
2450	28%	-5.53	-1.39
2460	28%	-5.53	-1.37
2470	27%	-5.69	-1.46
2480	25%	-6.02	-1.59
2490	24%	-6.20	-1.98
2500	23%	-6.38	-2.21

2.2.3 Antenna OTA

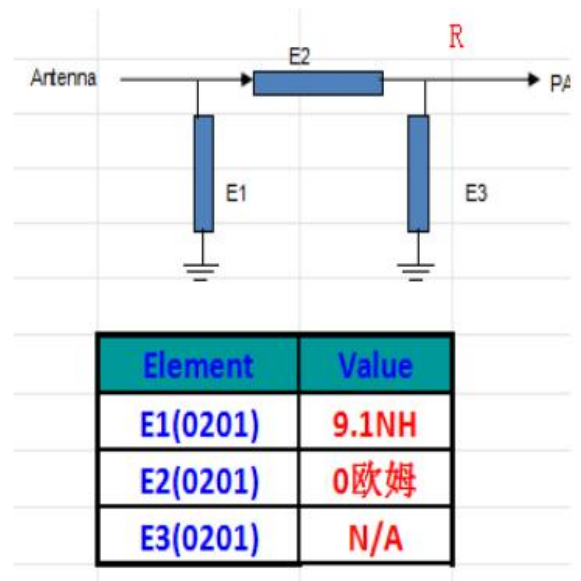
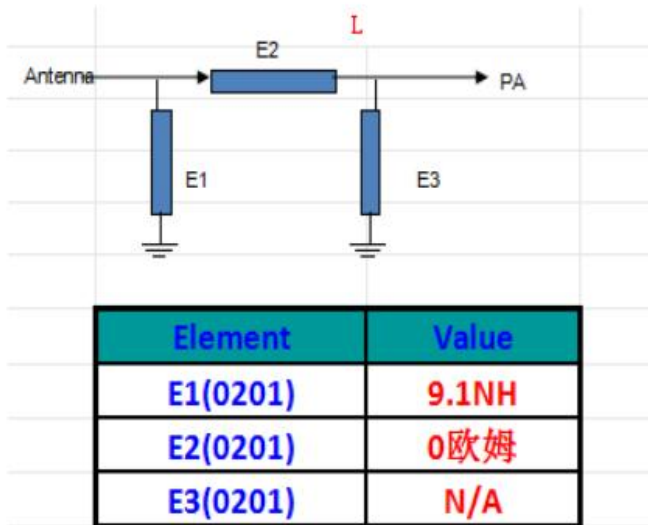
free space	Channel	TRP (dBm)	TIS (dBm)
L	0	4.95	-88.45
	39	5.32	-88.32
	78	5.15	-89.01

free space	Channel	TRP (dBm)	TIS (dBm)
R	0	5.12	-88.65
	39	4.89	-89.01
	78	4.87	-89.32

ear	Channel	TRP (dBm)	TIS (dBm)
L	0	-1.78	-82.14
	39	-1.85	-82.50
	78	-2.01	-82.35

ear	Channel	TRP (dBm)	TIS (dBm)
R	0	-1.87	-82.25
	39	-1.94	-82.52
	78	-2.14	-82.60

2.2.4 The left and right ears match the same, as shown below

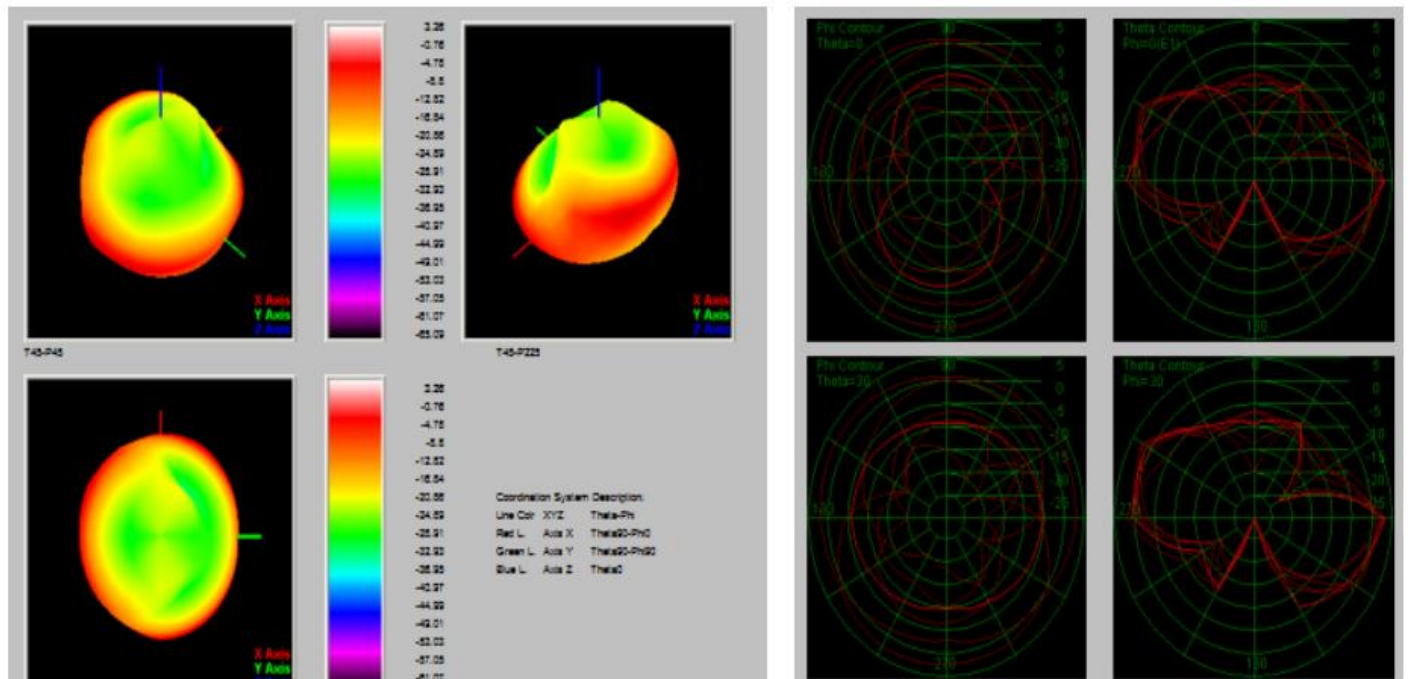


2.2.5 Headset assembly precautions

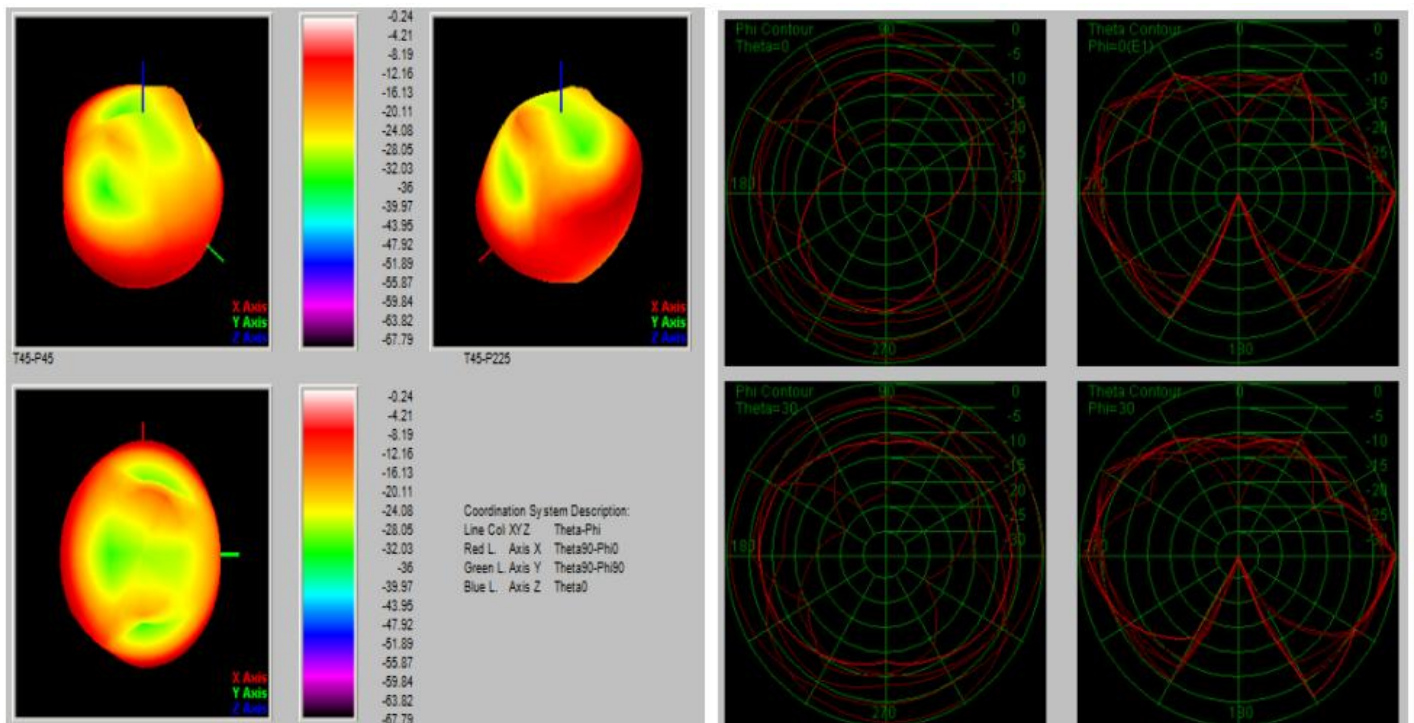


Speaker cable Battery
cable twisted 3 turns, as
shown in the figure (refer
to project 2161B)

2.2.6 Direction diagram -L



2.2.7 Direction diagram -R



3. Structural drawings

L antenna

A				由 Autodesk 教育版产品制作			
skills requirement:				PI substrate: Electrolytic copper (half to half)			
1. FPC substrate specifications:				Electrolytic copper: 0.5oz (ED)			
2. Electroplating specifications:				Double-sided tape: TESA 68532			
3. Surface ink requirements:				Nickel plated: 38um Surface ink color: Gilded: 0.025um Printing font color: Matte black Printing font height: WHITE			
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 ± 0.10 ; 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 RHB2.0/RF/Reach/6P environmental protection requirements			
8. Packaging requirements:							
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R antenna

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Skills requirement: PI substrate: Electrolytic copper (half to half) Electrolytic copper: 0.5oz (OD) Double-sided tape: TESA 68532 Nickel plated: 3~8um Gilded: 0.025um Surface ink color: Matt black Printing font color: WHITE According to drawings 1.FPC substrate specifications: 2.Electroplating specifications: 3.Surface ink requirements: 4.Reliability requirements: 5.Tolerance 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. 1. Shape tolerance ±0.10; 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. The dimensions marked with numbers are regarded as important dimensions, and the others refer to 2D drawings										*5.58±0.15 *24.52±0.15 Back									
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ShenZhen Yu Sheng Communication Equipment Co.,Ltd.																			
				Model		CE-216B-1		DATE		20240117									
				Name		BT-R		Design		JFB									
				Part NO		095019-1A		Review		MD		JFB							
				Material quality		Electrolytic copper (half to half)		RF		CKH									
				Mold surface treatment				confirm											
				Appearance treatment				UNIT		mm		proportion		FIT		Revise		R:A	
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				20~40		±0.15		⊥		0.02		40~50		±0.20		∇		0.04	
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