

SPECIFICATION

Shenzhen Strongpower Communication Co., Ltd

Room 502-A, Building W2-A, Gaoxin Industrial Village, No. 025,
Gaoxin South 4th Road, Gaoxin District, Nanshan District, Shenzhen

ShenzhenStrongpowerCommunicationCo. SPECIFICATION

Customer	Bit Fantasy	Frequency Band	BT: 2400MHz-2480MHz
Model	Bigbang		
Serial No	RQ03B162823B-R	Workmanshi	Internal Antenna
RF designer	He Yibai	Structural engineer	Peng Yaohui
Technical director	Fu Yicheng	Date	2025.06.24

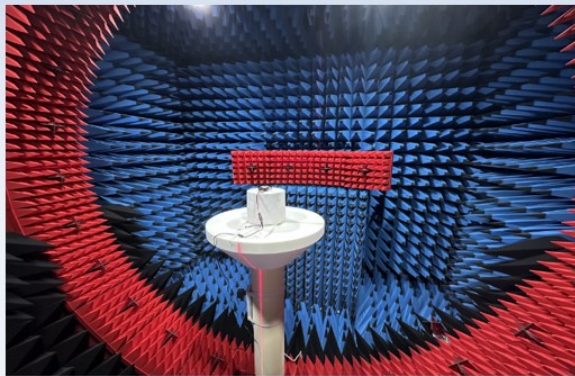
Confirm by customer:

Index

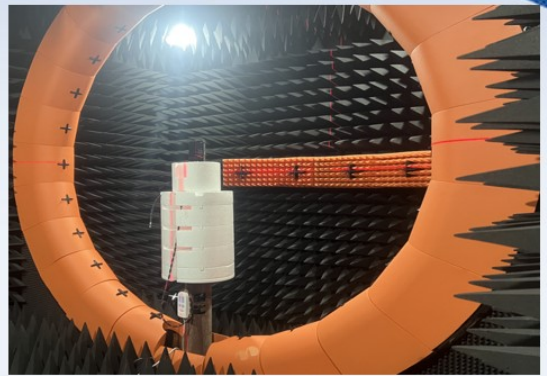
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1. Test environment

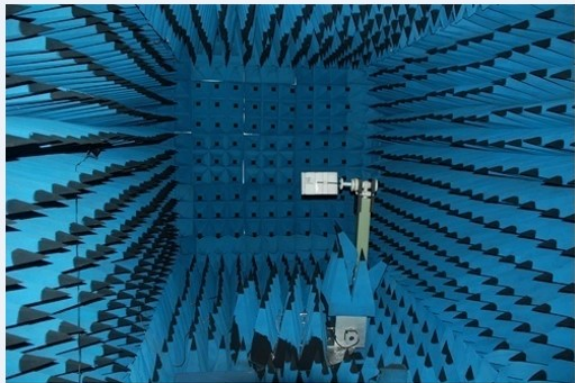
1. Test system



SUNYIELD测试系统



ATS-300L测试系统



广屏测试系统



Satimo测试系统

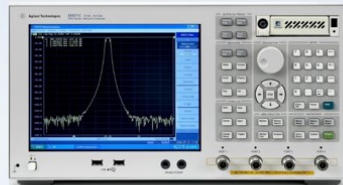
2. Test instrument

仪器设备

R&S CMW500



Agilent E5071C



Anritsu MT8820C



Agilent N4010A



Agilent E4438C Signal Generator

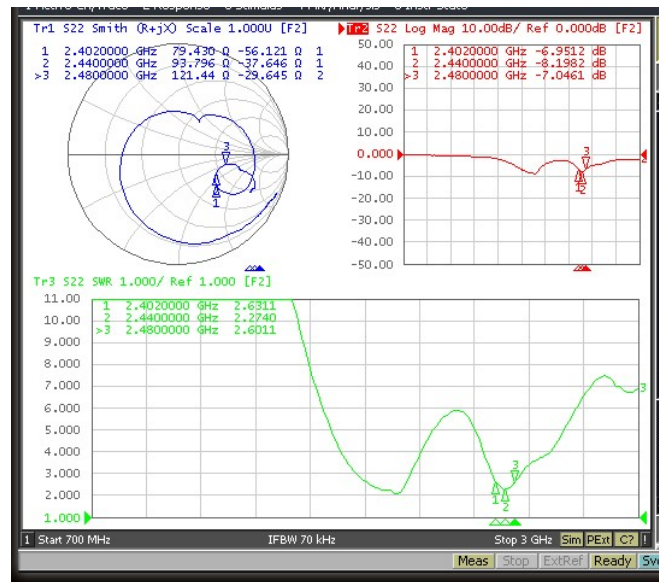


Anritsu MT8000A



2. Passive test data

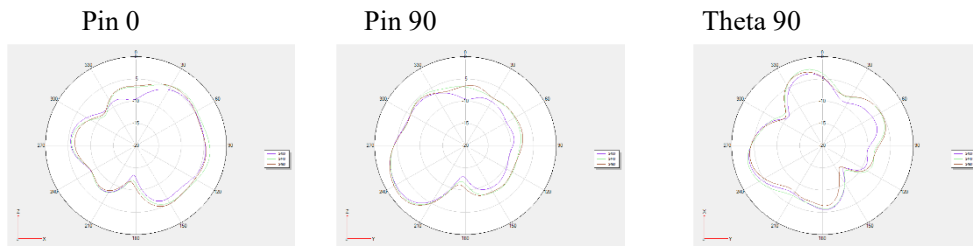
1.S11 Parameter



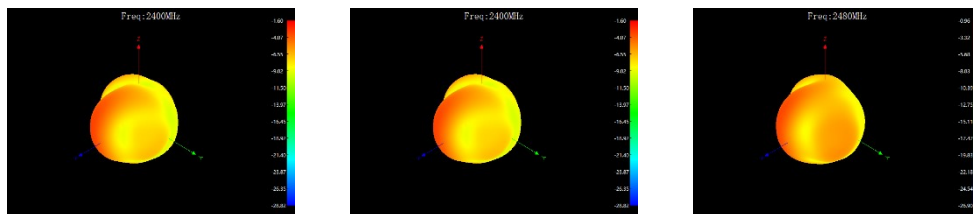
2. Efficiency&Gain

Frequency /Mhz	Efficiency / %	Efficiency / dB	MaxGain/ dBi
2400	28.50	-5.60	0.12
2410	27.51	-5.63	0.05
2420	27.35	-5.78	-0.39
2430	26.39	-5.77	-0.42
2440	25.13	-5.99	-0.18
2450	24.77	-6.17	-0.38
2460	24.15	-6.33	-0.38
2470	23.24	-6.35	-0.49
2480	22.03	-6.57	-0.56

3. Directional diagram



3D



3. Active test data

1. TRP&TIS

Left Ear - Free Space

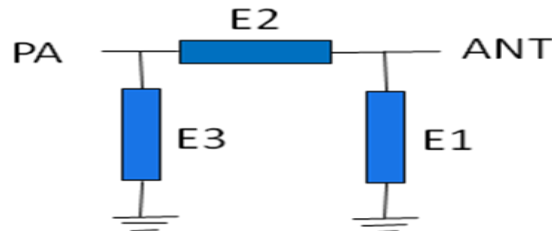
Channel CH	TRP (dBm)	TIS (dBm)
0	8.64	-89.57
39	8.3	-88.12
78	8.45	-87.16

Left Ear - Head Ear

信道 CH	TRP (dBm)	TIS (dBm)
0	1.92	-82.61
39	1.71	-83.18
78	1.69	-82.24

4. Matching circuit

Element	E1	E2	E3
Value	0.7PF	0.8PF	NC



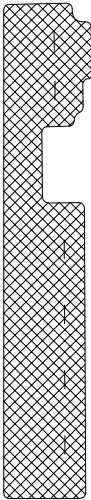
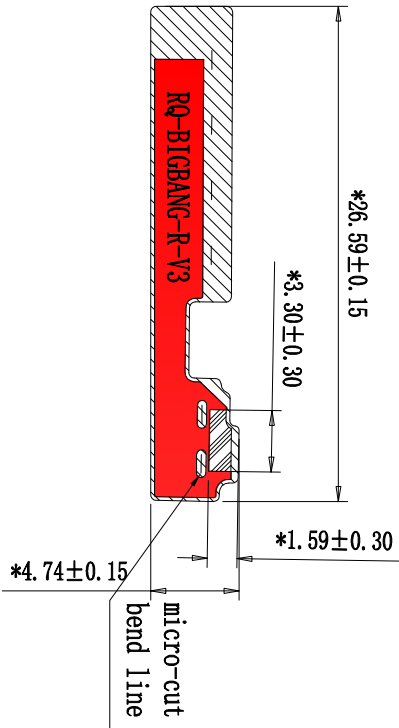
5. Environmental treatment

Nothing

6: Engineering drawing

(See next page)

Black matte ink for bright white fonts
Micro-adhesive film shipment



This project requires black solder mask on both sides.

NOTES:

1. Red for copper; blank for substrate; yellow for gold plating; blue for back glue;
2. The die must not damage the line, and the gilded area must be communicated with the line.
3. No dirt, scratches, black spots, break and fall off after gold plating on the surface.
4. Materials: FPC single panel [PI (RA) half-to-half substrate + adhesive (3M 9471 0.05 mm) + surface, Double-sided black solder mask (U Li) (& GT; 0.01 mm)] ;
5. Back Glue 3M 9471;
6. The gold finger was plated with gold (thickness: $0.5 \mu\text{m}$ - $1.5 \mu\text{m}$) , without oxidation (salt spray test was needed) , no corrosion point and coating shedding occurred after 48 ± 1 hour salt spray test.
7. Marked * is the key dimension.
Please check the tolerance according to Class B tolerance if not marked.

Note: This drawing is issued by Shenzhen Ruiqiang Communication Co., Ltd, and no one is allowed to copy, alter or take away from the company without permission.

Professional IP Solution Provider					ShenzhenStrongpowerCommunicationCo.				
0~10	± 0.10		0.02	Models	BIGBANG	Date	2026.02.27		
10~20	± 0.12		$\varnothing 0.03$	Product name	FPC-BT-R	Design			
20~40	± 0.15		0.02	Part number	RQ03B162823B-R	Examine			
40~50	± 0.20		0.04	Material	PI (RA)				
B			0.02	Die face		Confirm			
location			0.02	treatment		Unit	mm	FIT	version
5				6			7	8	V3
Date		Revise the contents		Version		Revisions			
1		2		3		4			