

SPECIFICATION

Shenzhen Strongpower Communication Co., Ltd

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Customer	Horn	Frequency Band	2402MHz-2480MHz
Model	CB051		
Serial No	RQ03B125839B-BT	Structural engineer	Peng Yaohui
RF designer	Zheng zhou	Date	2026/4/23
Technical director	Fu Yicheng	Antenna Type	FPC
Company Address	Shenzhen Ruiqiang Communication Co., Ltd. Address: Room 502, W2-A, High-Tech Industrial Village, South High-Tech 4th Road, Nanshan District, Shenzhen		

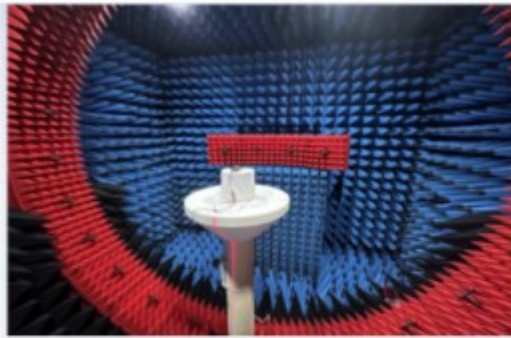
Confirm by customer:

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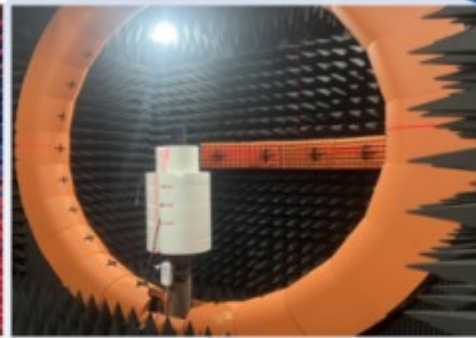
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1. The Equipment of Active&Passive Test

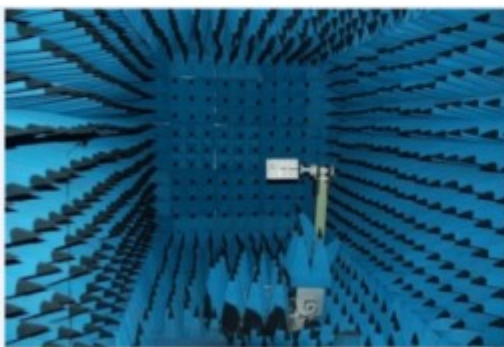
chamber



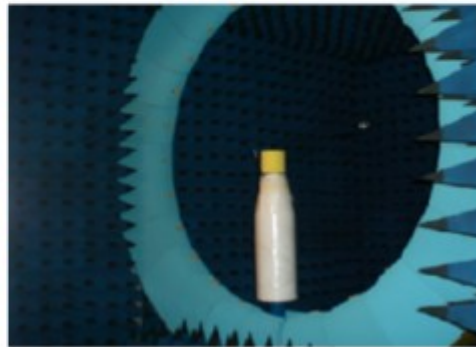
SUNYIELD



ATS-300L



Guang Ping



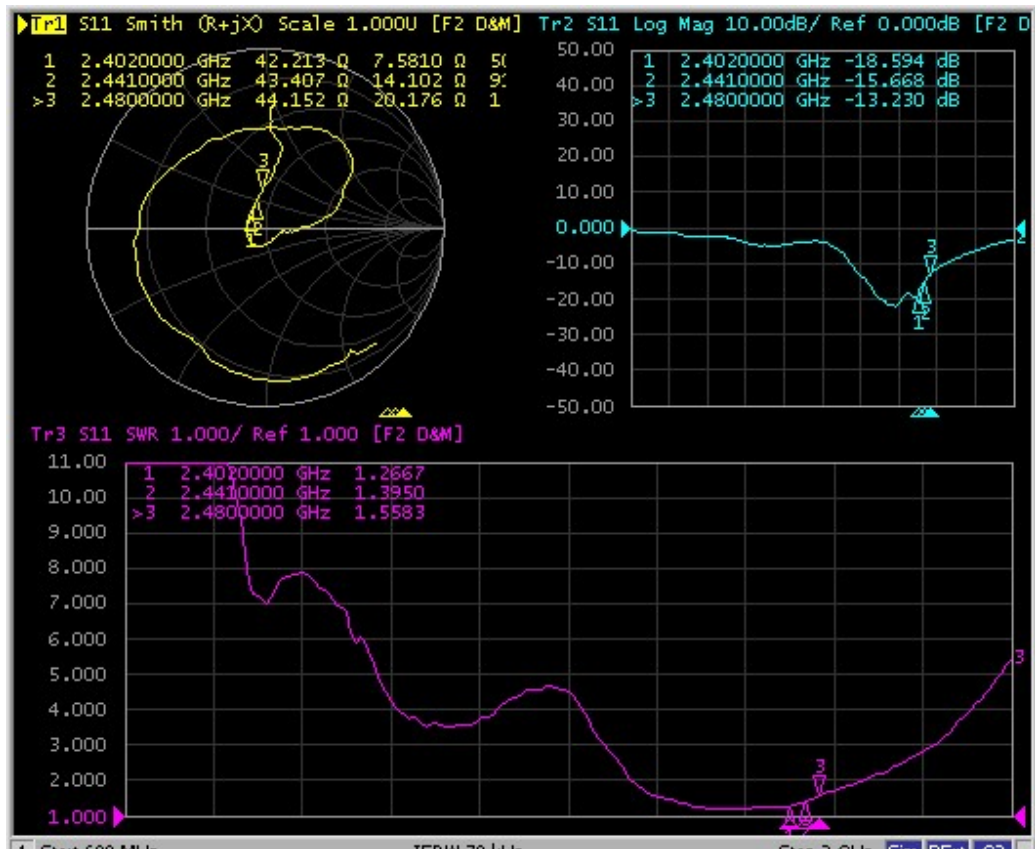
Satimo

Equipment



2. Passive Test Data

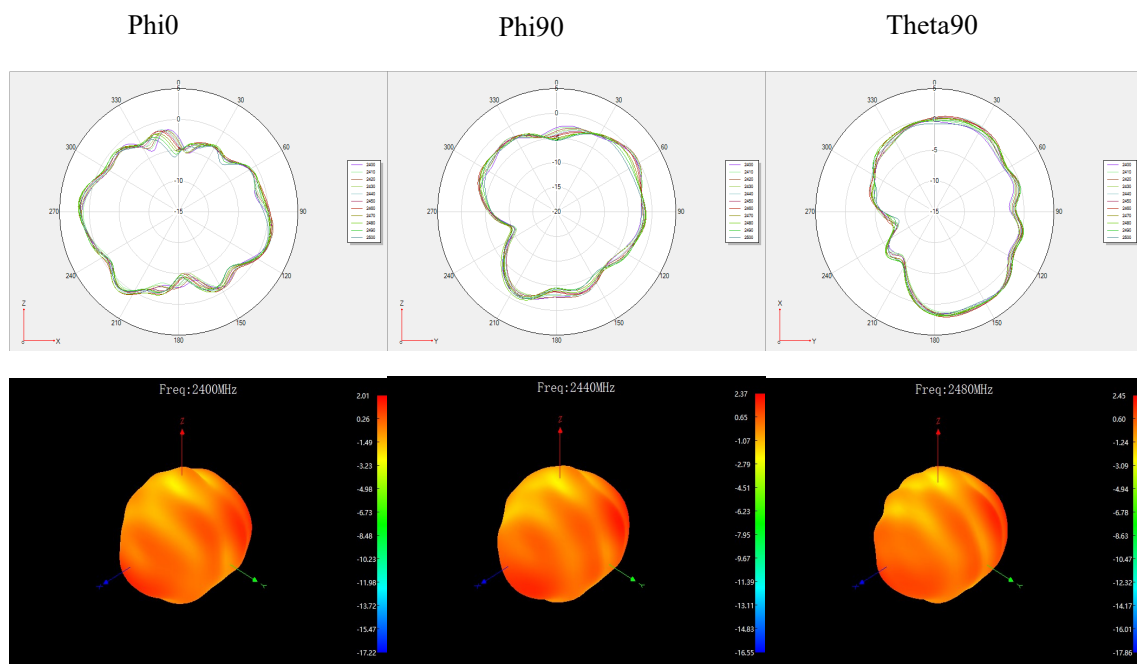
1.S-Parameters (Free Space)



2.Efficiency and Gain (Free Space)

Frequency/ Mhz	Efficiency/ %	Efficiency/ dB	MaxGain/ dBi
2400	56.98	-2.44	2.54
2410	56.53	-2.48	2.46
2420	58.09	-2.36	2.57
2430	57.67	-2.39	2.56
2440	58.38	-2.34	2.58
2450	58.94	-2.30	2.57
2460	59.53	-2.25	2.77
2470	58.94	-2.30	2.42
2480	59.24	-2.27	2.69
2490	59.23	-2.27	2.52
2500	56.16	-2.51	2.46
AVG	58.15	-2.36	2.56

3.Passive Radiation Pattern (Free Space)



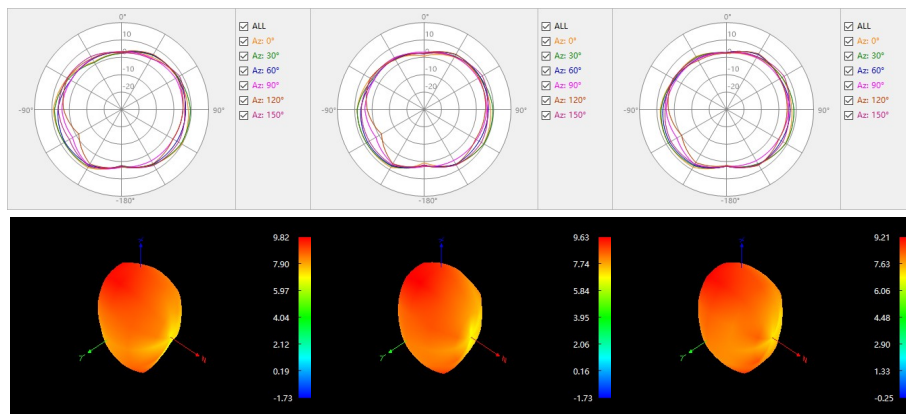
3. Active Test Data

1. TRP&TIS(Free Space)

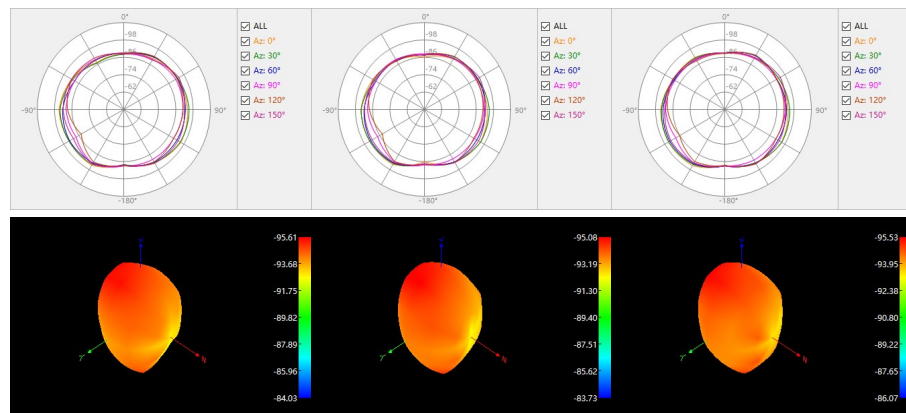
OTA (Free Space)

信道	0	39	78	AVG
TRP	8.16	8.21	8.09	8.15
TIS	-93.94	-93.67	-93.22	-93.61

TRP

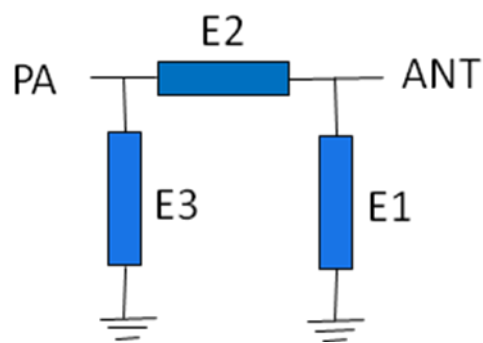


TIS



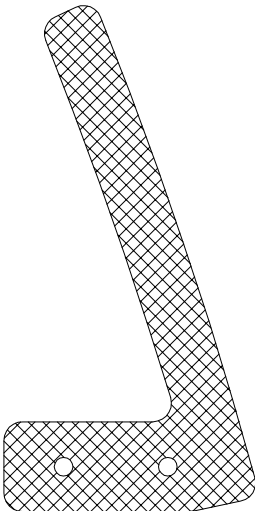
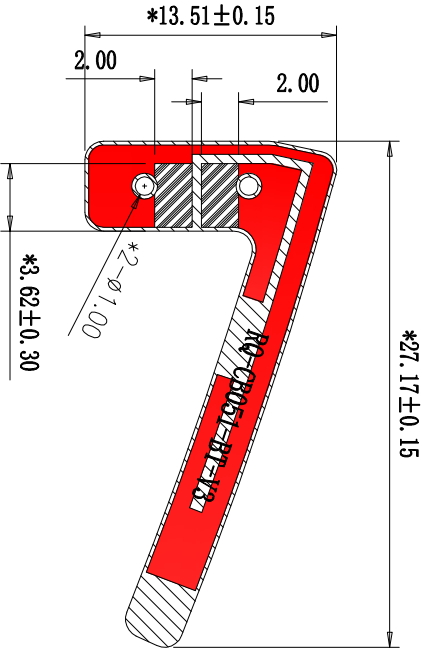
4. Matching Circuit

Matching	E1	E2	E3
Value	NC	3NH	NC



5. Engineering drawing (see next page)

Black matte ink for bright white fonts
PE film board half-cut shipment



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 (ED) half-to-half substrate + adhesive (3M 9471 0.05 mm) + surface, black ink (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 Ruiguang Communication Co., Ltd., and no one is allowed to copy, alter or take away from the company without permission.

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Professional IP Solution Provider ShenzhenStrongpowerCommunicationCo. <table><tr><td>0~10</td><td>±0.10</td><td></td><td>0.02</td><td>Models</td><td>CB051</td><td>Date</td><td colspan="3">2026.03.30</td></tr><tr><td>10~20</td><td>±0.12</td><td></td><td>ø0.03</td><td>Product name</td><td>BT-FPC</td><td>Design</td><td colspan="3"></td></tr><tr><td>20~40</td><td>±0.15</td><td></td><td>0.02</td><td>Part number</td><td>RQ03B125839B-BT</td><td>Examine</td><td colspan="3"></td></tr><tr><td>40~50</td><td>±0.20</td><td></td><td>0.04</td><td>Material</td><td>PI</td><td></td><td colspan="3"></td></tr><tr><td colspan="2">B</td><td></td><td>0.02</td><td>Die face</td><td></td><td>Confirm</td><td colspan="3"></td></tr><tr><td colspan="2">location</td><td colspan="2"></td><td>treatment</td><td></td><td>Unit</td><td>mm</td><td>FIT</td><td>version</td></tr><tr><td colspan="2">5</td><td colspan="2"></td><td>6</td><td></td><td>7</td><td colspan="3">8</td></tr></table>										0~10	±0.10		0.02	Models	CB051	Date	2026.03.30			10~20	±0.12		ø0.03	Product name	BT-FPC	Design				20~40	±0.15		0.02	Part number	RQ03B125839B-BT	Examine				40~50	±0.20		0.04	Material	PI					B			0.02	Die face		Confirm				location				treatment		Unit	mm	FIT	version	5				6		7	8		
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