



深圳市东信通电子科技有限公司

ShenZhen Eastong Electronic technology Co., LTD

Room 501, Building 6, Phase II, Dongjiu Innovation Science Park, No.73 Xialinan Road,
Xialilang Community, Nanwan Sub-district, Longgang District, Shenzhen City

APPROVAL SHEET
FOR
逸兽 (BT band internal antenna)

Issued by		Checked by	
Confirmed by		Date	2026-10-19
Customer Confirm			

Project: 逸兽		Author: 李凯	File Name: 逸兽 蓝牙- APP-RA
Date: 2026-10-19			
Rev:	Language:	Check:	
A	ENG		
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Revision History

Date	Revision	Description of Changes
2026-10-19	R:A	Antenna performance approved by customer

1 SUMMARY

2 GENERAL DESCRIPTION

2.1 Definitions

3 MECHANICAL DESCRIPTION

4 ELECTRICAL PERFORMANCE

4.1 Set-up

- 4.1.1 VSWR and return loss
- 4.1.2 Efficiency, Gain and TRP/TIS
- 4.1.3 Matching Circuit Description

4.2 Measurement Data

- 4.2.1 VSWR
- 4.2.2 Active result

5 MECHANICAL DRAWING

6 CONCLUSION

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1 Summary

This report summarizes the electrical results of the proposed antenna to support the 逸兽 program. We test the antenna with the latest version handset .

2 General Description

2.1 Definitions

VSWR: Voltage Standing Wave Rate

3 Mechanical Description

4 Electrical Performance

4.1 Set-up

4.1.1 VSWR and return loss

VSWR measurements (S_{11}) were performed using an Agilent E5070B Network Analyzer and the previously described test fixture. Coaxial chokes were used to mitigate surface currents on the outside of the cabling. The testing was performed in free space.

4.1.2 Efficiency, Gain and TRP/TIS

The gain of the antenna was measured in Dong Xin's 3D anechoic chamber in Shenzhen. The chamber is capable of doing tests from 380MHz to 6GHz. Coaxial chokes on the feed cable were used to mitigate surface currents. The measurement results are calibrated using dipole standards. For TRP and TIS the chamber uses a Agilent 8960 to establish the connection with the mobile device. During TRP tests the 8960 reads the power received through the chamber probes whilst during TIS tests the 8960 transmits through the probe. All data is afterwards corrected by a calibration table.

4.1.3 Matching Circuit Description

No matching.

4.2 Measurement Data

Effective Radiated Power Summation

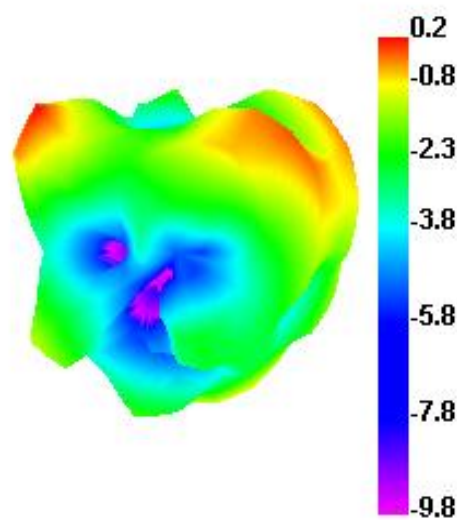
5 Mechanical drawing

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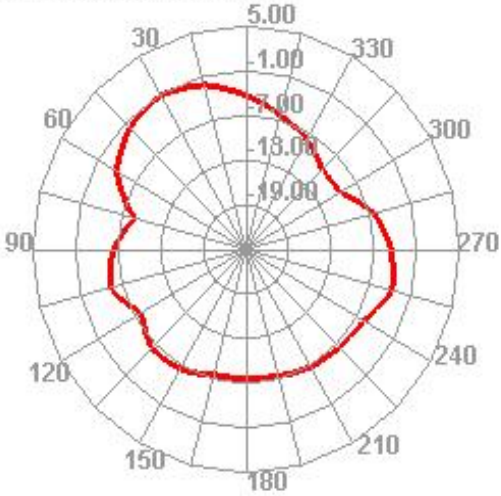
BT 天线效率，增益：

Freq (MHz)	Effi (%)	Gain (dBi)
2400	13.2	0.17
2410	13.8	0.23
2420	14.2	0.14
2430	13.6	0.22
2440	13.3	0.27
2450	14.1	0.22
2460	13.5	0.18
2470	13.4	0.24
2480	14.5	0.1
2490	13.7	0.18
2500	12.6	0.24

2400.000MHz

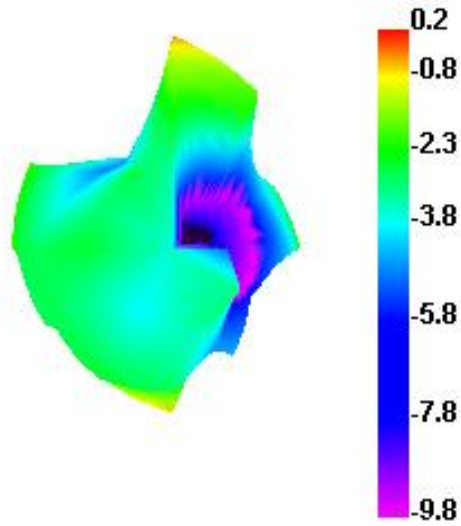


2400.000MHz H

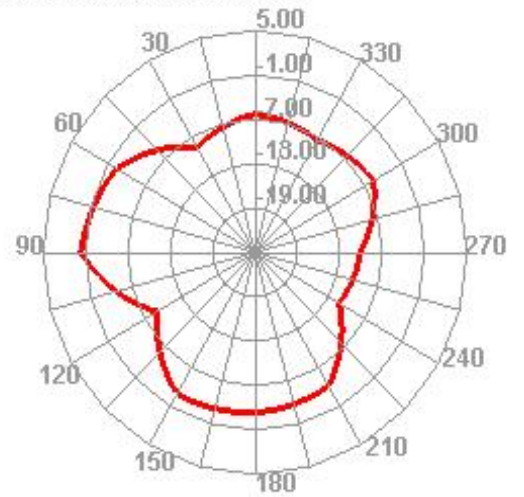


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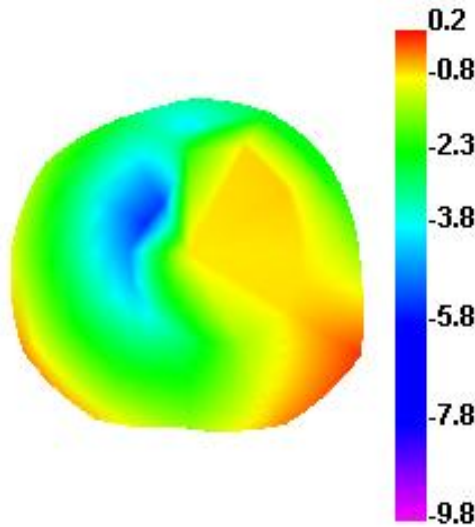
2450.000MHz



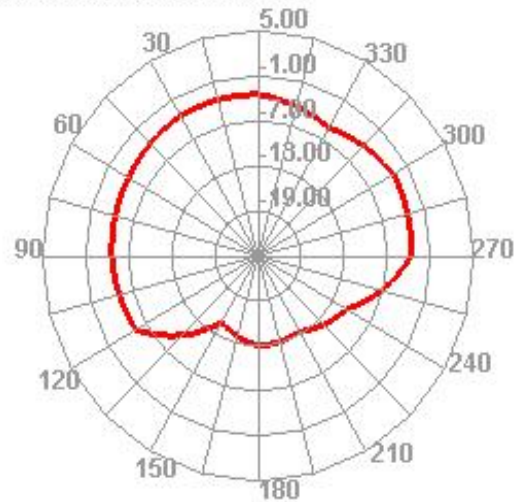
2450.000MHz H



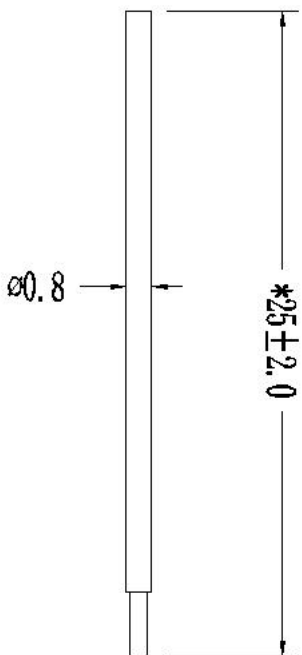
2490.000MHz



2490.000MHz H



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黑色外皮PVC，里面铜丝，单头上锡

注:

1.带*号尺寸为重点尺寸,未注公差按图纸公差.

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深圳市东信通电子科技有限公司									
 第三角法		机种		日期	2026-06-12	页码	1/1		
未注公差参见标准		品名		BT导线		设计	QH		
10以下		料号		112-003		审核			
10~20		材质				工程			
20~40		表面处理				频率			
40以上		表面处理				确认			
请勿按图照纸		外表面处理		本色		单位	mm	比例	1:1
日期	修 改 内 容	版 本	备 注						

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