



深圳市东信通电子科技有限公司

ShenZhen Eastong Electronic technology Co., LTD

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APPROVAL SHEET
FOR
JW175 AI 眼镜 MG
(2.4G band internal antenna)

Issued by		Checked by	
Confirmed by		Date	2026-05-28
Customer Confirm			

Project: JW175 AI 眼镜 MG		Author: 许小荣	File Name: JW175 AI 眼镜 MG-APP-RA
Date: 2026-05-28			
Rev:	Language:	Check:	
A	ENG		
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Revision History

Date	Revision	Description of Changes
2026-05-28	R:A	Antenna performance approved by customer

1 SUMMARY

2 GENERAL DESCRIPTION

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Project: J W 1 7 5 AI 眼镜 MG		Author: 许小荣	File Name: JW175 AI 眼镜 MG-APP-RA
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1 Summary

This report summarizes the electrical results of the proposed antenna to support the AI 眼镜 MG 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

匹配未修改

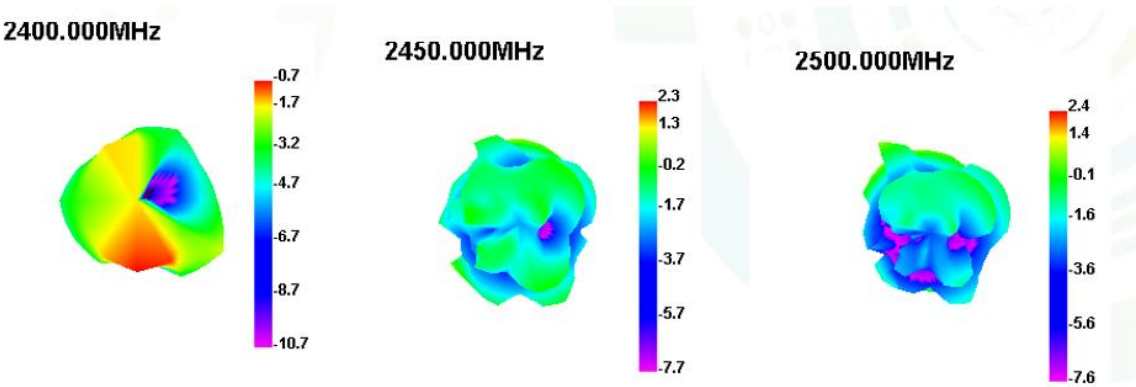
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4.2 Measurement Data

Effective Radiated Power Summation (TRP/TIS)

WIFI	2.4G		
Let	1	6	12
TRP	7.6	8.2	7.6
TIS			-70.42

Freq (MHz)	Effi (%)	Gain (dBi)
2400	26.32	-0.7
2450	34.41	2.3
2500	35.76	2.4



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- 1、打※为配合尺寸,打*为重点尺寸,"Trim"为后继需调整尺寸;
- 2、打★为必测尺寸,未标尺寸参考3D图纸;其它尺寸以实配为准;
- 3、走线面除焊盘外其它区域需铺油(哑光)。
- 4、 区域为走线区域,  区域为焊盘区域(镀金),  区域为附胶区域(3M300/9471LSE)
- 5、PCB表面油墨均匀,不可有起皱镀金不良等现象。
- 6、字符颜色要求:黑油黑字,白油亮白字。

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