



Shenzhen Shuodian Electronic Technology Co.,Ltd
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SPECIFICATION

for

Headphone Bluetooth Antenna

Customer No.

Product No.

JMG-Headphone Bluetooth Antenna-Wire-25MM

Author: XiaofengZeng Review: Liming

Release Date: 2026.10.09

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Shenzhen Shuodian Electronic Technology Co.,Ltd



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1. Bilateral Confirmation page

1.1 Customer signature

Customer:

Seapartment/post	Sign	Date
Hardware Engineer/RD		
Mechanical/MD		
Project Manager/PM		
Commercial/Puchasing		
Checker		

1.2 Signature of ShuoDian Technology company

Seapartment/post	Sign	Date
Antenna Engineer/RD		
Mechanical/MD		
Project Manager/PM		
QA		
Checker		



2. General

2.1 Scope of application

This specification is only applicable to 2.4G antenna

2.2 Operating temperature range

Temperature range of this product: -20 ~ +65 °C

2.3 Storage temperature range:

This product is stored at - 30 ~ + 75 °C

3. General product specifications

NO.	ITEMS	DETAILS
1	Type	Headphone
2	Operating Frequency Band	2400-2500MHz
3	VSWR	≤ 2.0
4	Impedance	50Ω
5	Antenna Type	Wire
6	Antenna composition	Wire
7	Entity Picture	



4. Specification Detials

4.1 Mechanical Properties

4.11 Product Composition:

No.	Material	Size (MM)
1	Wire	Φ0.8*25 Black

4.12 Apperance

Good appearance without scars 、 dirts、 protuberances, etc.

4.13 Antenna Picture and Structure Dimension

Productdrawings:



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4.2 Electric Performance

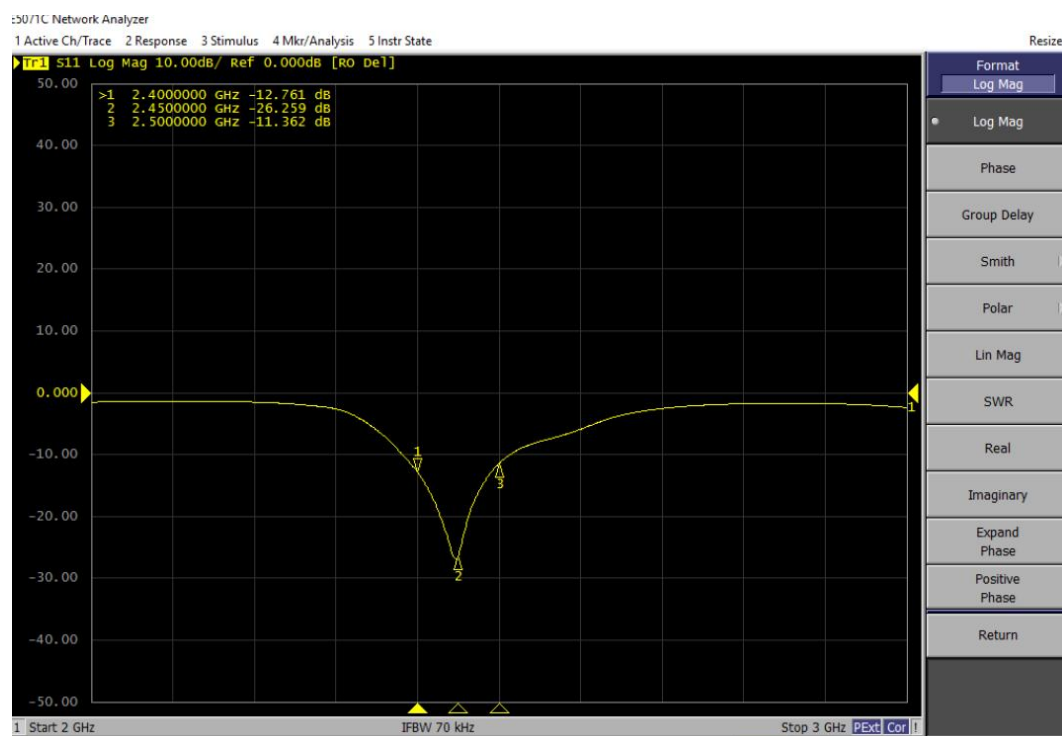
4.21 Test condition

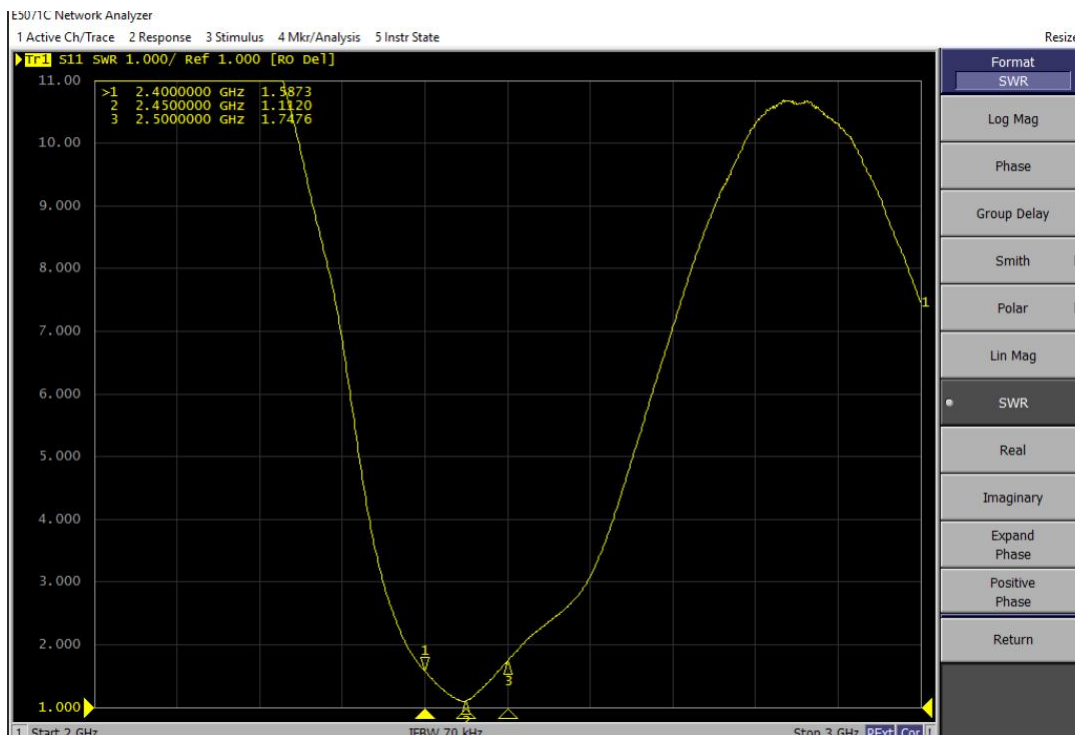
Environment:	Equipment:
Temperature: 10℃——+30℃	Network Analyzer: KEYSIGHT E5071C
Humidity: ≤80% (+40℃)	Multi-probe microwave anechoic
Atmospher: 750mmkg±30mmkg	chamber

4.22 Test Data for Electrical Performance:

4.22.1 S11 of the Antenna:

Frequency (MHz)	2400	2450	2500
ReturnLoss	-12.76	-26.26	-11.36
VSWR	1.58	1.11	1.74



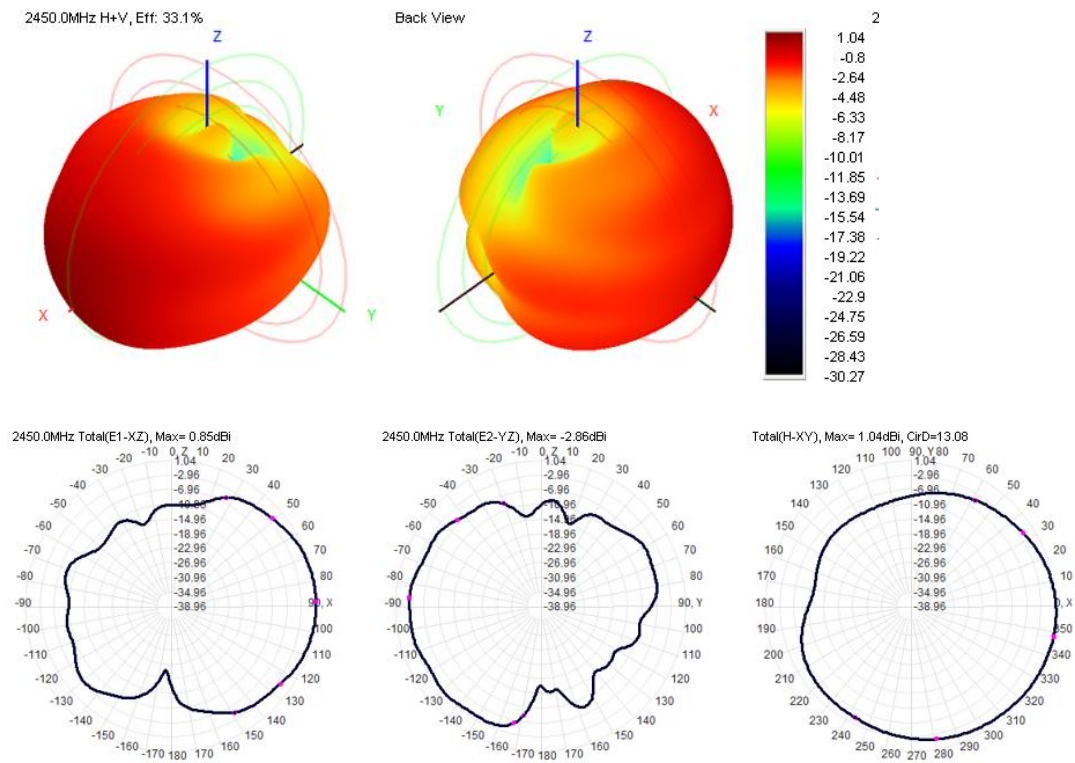


4. 22. 2 Passive gain、 efficiency and Radiation Pattern:

FrQ (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Gain (dBi)	0.80	0.84	0.90	0.95	1.01	1.04	1.03	1.0	0.97	0.95	0.98
Efficiency (%)	30.7	32.3	32.2	32.4	32.5	33.1	33.8	35.9	35.5	36.2	33.5

Radiation Pattern 2450MHz

@2450MHz



5. Product Packaging

Manner of packing:

Packed in self sealed bags, 1000 pcs each.



6. Document Resume

Document No.	
Release Date	2026/10/09
Author	XiofengZeng
Review	LiMing

Revised History

Date	Version	Revised Record
2026/10/09	1.00	New Project