

SPECIFICATION



Shenzhen Daxian Technology Co., Ltd.

Takstar TH-005A Dongle Board Mounted Antenna

Material Recognition Letter

Guest households	Takstar	frequency band	2400MHz~2500MHz
Project name	TH-005A	version	V1.0
Material No.		color	Black
R F design	Xiao.Liu	structure design	RuiBin.Zhou
Quality Manager	YongJie.Pan	R & D director	Lei.Zhang
Date	2025-05-16		

client confirmation:

Whether the assembly meets your requirements: ☐OK ☐NG

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Change resume

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I、 Project description

Customer name:	Takstar
Whole machine type:	Headphones
Antenna band:	2400 ~ 2500MHz
Antenna form:	Board Mounted antenna
Feed form:	weld
Hardware version:	V3.0

II、 Dongle Antenna

This report provides a variety of measurements of the electrical performance of the TH-005A antenna. Figure 1 shows the antenna designed by the display.



antenna appearing diagram
Figure 1

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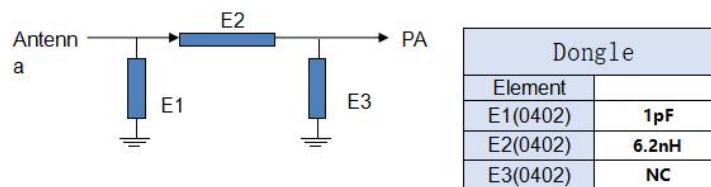
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1.1 Electrical specification standard

The frequency range of the antenna is 2400 ~ 2500 MHz. The following table indicates the electrical performance specifications of the antenna. The antenna is designed and manufactured by a large display.

Frequency Range	Frequency (MHz)	VSWR
Dongle	2400 ~ 2500	≤ 2

1.2 Motherboard antenna end match:



1.3、 Structure specification standard

1.3.1 Antenna Composition Size Diagram

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3 test

3.1 The Test of standing Wave (VSWR)

3.1.1 The Test of standing Wave (VSWR): In turn, the connection of the VSWR testing device is as follows: RES ZVL Network Analyzer / testing Line / testing tool

Actual measurement (with diagram)

3.2 Measurement of Efficiency, Power (TRP) and Sensitivity (TIS)

3.2.1 Test site:

Large-scale microwave darkroom. The test frequency range is 400MHz / 6GHz, the static range is 50cm circumferential and the reflectivity is less than-50 dB..

3.2.2 Test instrument:

Rs ZVL Network Analyzer, Agilent8960 E5515C, Standard Horn Antenna, French SATIMO-SG24SYSTEM system, Printer, etc.

3.2.3 test data : In microwave anechoic chambers, the power and sensitivity values measured are shown in the following table:

Passive efficiency&gain:

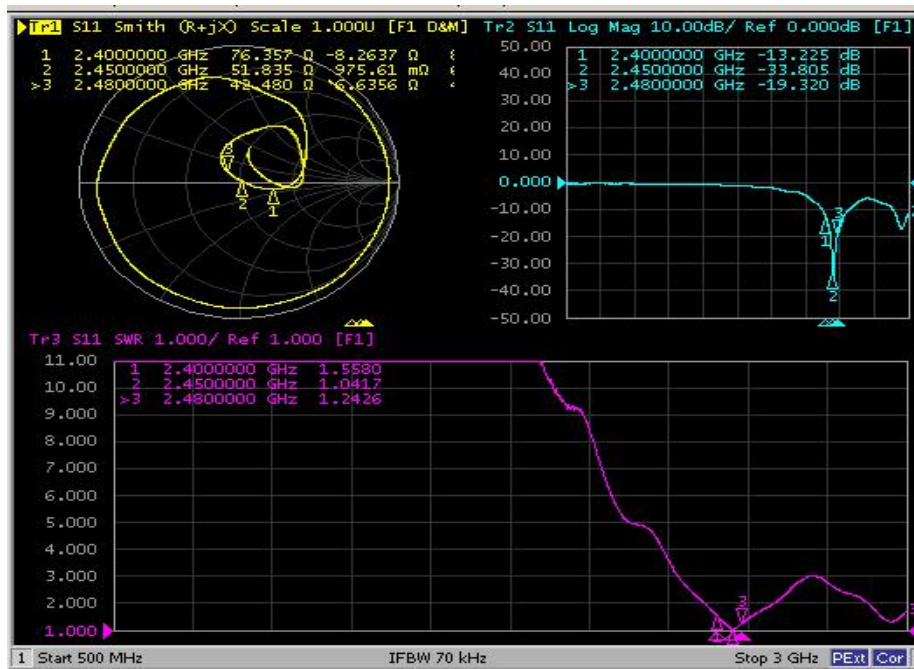
Frequency (MHz)	Efficiency (%)	Gain (dBi)
2400	52.76	0.44
2410	50.71	0.42
2420	48.71	0.29
2430	46.85	0.18
2440	44.52	0.43
2450	43.4	0.57
2460	43.22	0.6
2470	42.89	0.6
2480	43.19	0.54

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4、 VSWR parameter diagram



5、 conclusion:

This antenna is designed on the basis of the prototype provided by the customer, electrical parameters and structural performance have reached the technical requirements, please confirm!

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