

Shenzhen World Elite Electronic Co. LTD.,

Sample Approval Sheet

Product Information:

Customer	
Material Description	
Customer's Part number	
Specifications	() (φ)
Supplier's Part number	
Date	

Supplier:

Prepared By	Checked By	Approved By
Zhang Dengqiao	Li Yuepeng	Zhang Hongying

Customer Approval:

Accepted By	Checked By	Approved By

Results:

- ☐ Full Approval
- ☐ Conditional Approval
- ☐ Unqualified
- ☐ Others:

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Contents

1、 Specification.....	3
1.1 Electrical specification standard.....	3
1.1.1 Electrical Specifications.....	3
1.1.2 Antenna Matching Network.....	4
2、 Test.....	4
2.1 Test of passive S11.....	4
2.1.1 Test connection.....	4
2.1.2 Passive S11.....	4
2.2 Gain and efficiency test.....	5
2.2.1 Test Position.....	5
2.2.2 Test equipment.....	5
2.2.3 Results Summary.....	5
2.2.4 Radiation Pattern Results.....	5
3、 Conclusion.....	6
4、 Part Drawing.....	7

1、Specification

This report mainly provides the testing status of various electrical and structural performance parameters of WB528 BT Antenna.



Figure 1 Antenna

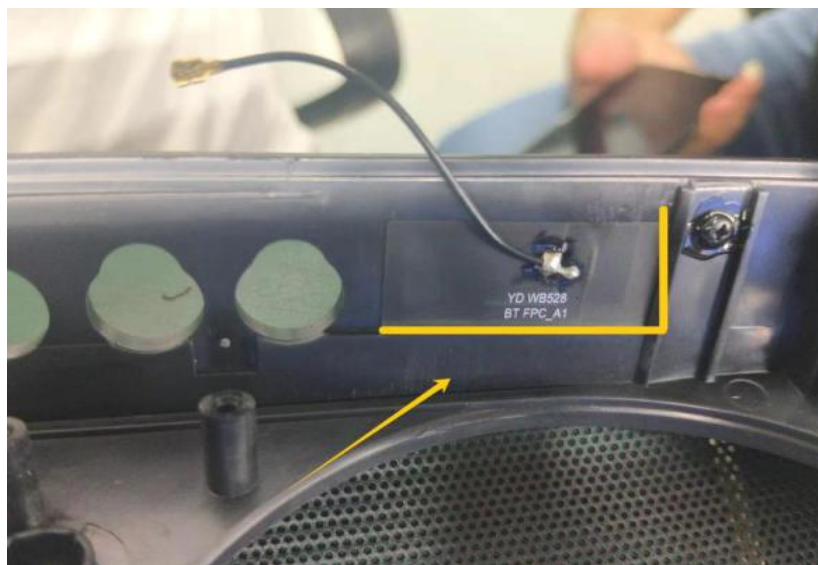


Figure 2 Antenna Position

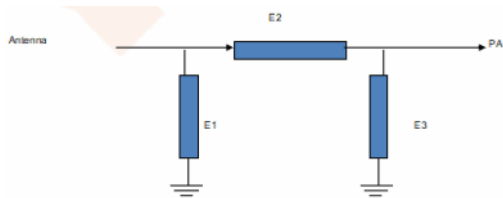
1.1 Electrical specification standard

1.1.1 Electrical Specifications

The antenna operates in the 2400-2480 MHz. The following table is the electrical performance index of the antenna designed by our company.

Antenna	WB528 BT Antenna
Frequency Range	2400-2480MHz
VSWR	< 2.0
Efficiency	>50%
Impedance	50 ohm
Polarization	Linear polarization

1.1.2 Antenna Matching Network



2、 Test

The antenna was debugged and tested with the prototype provided by the customer.

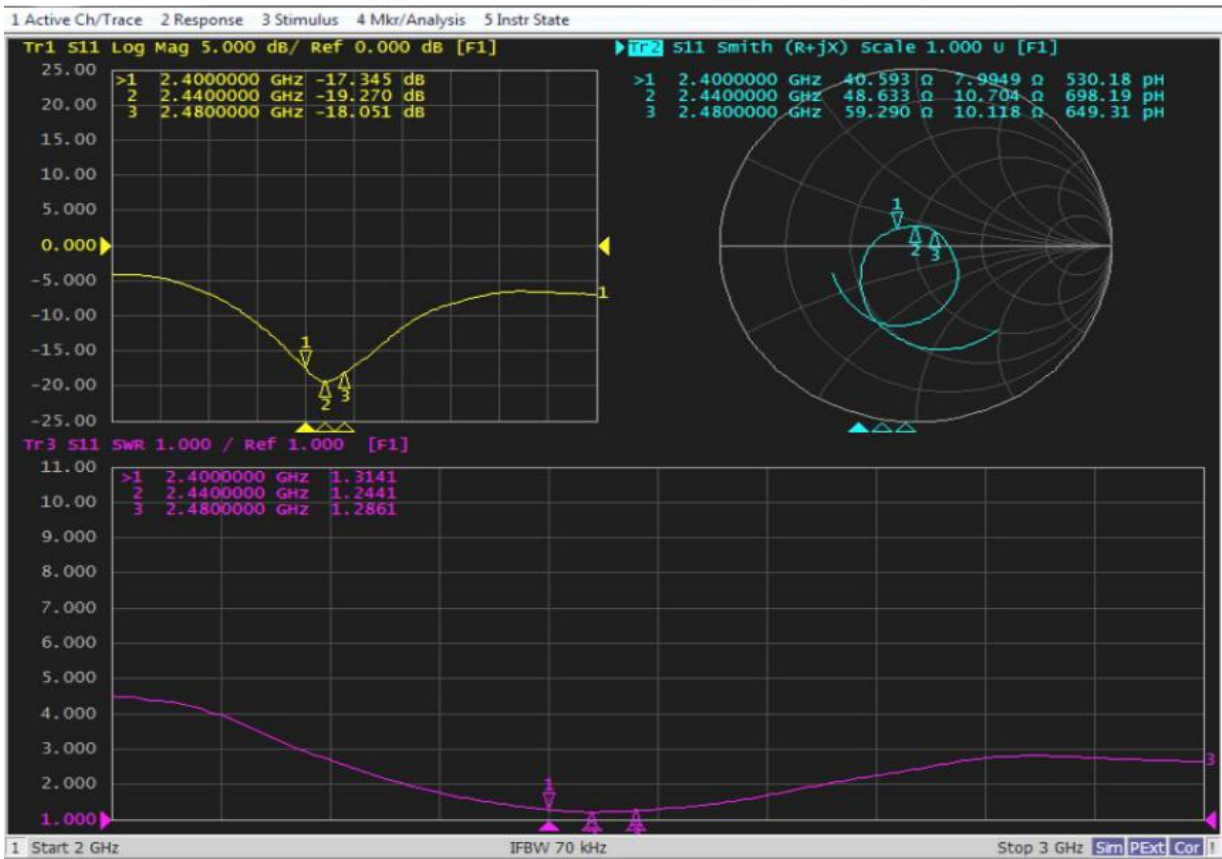
2.1 Test of passive S11

2.1.1 Test connection

The passive S11 test device is connected as follows: Network Analyzer → Test Line → Test Fixture.

2.1.2 Passive S11

The following table shows the standing wave ratio values of the edge frequency points of the antenna operating frequency band. The waveform of Return Loss and VSWR obtained by the test is shown as follows.



2.2 Gain and efficiency test

2.2.1 Test Position

Microwave anechoic chamber, the test frequency range is 400MHz-6GHz.

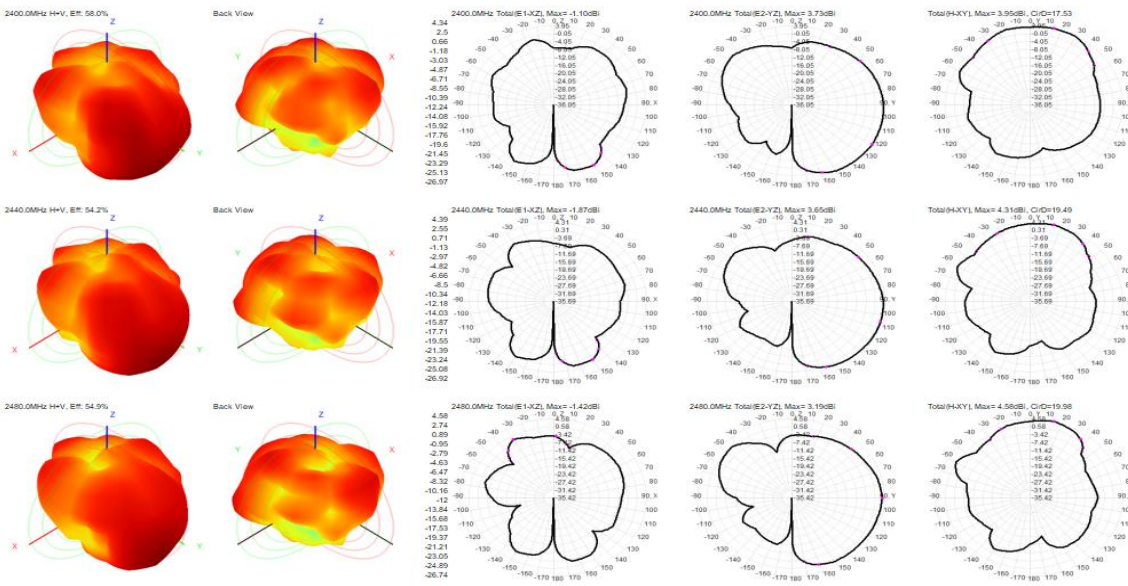
2.2.2 Test equipment

Network analyzer, standard horn antenna, multi-probe near field antenna test system, test computer, etc

2.2.3 Results Summary

In the microwave anechoic chamber, the measured values related to efficiency and gain are shown in the table below.

2.2.4 Radiation Pattern Results



3、 Conclusion

This antenna is designed on the basis of the prototype provided by the customer. The above electrical performance parameters are tested under the environmental treatment conditions of the test prototype. The electrical parameters and structural performance have met the technical requirements. Please confirm!

4、Part Drawing

