深圳泓德致新科技有限公司

Shenzhen hongdezhi new technology co., ltd acknowledgment

contents

Physical map corresponding to antenna model HDZX-J2066 black wire length 120mm generation terminal 2.4G WIFI antenna

1. Project information and Electrical Specification

Those specifications were specially defined for WIFI/BT model, and all characteristics were measured under the model's handset testing jig .

1-1 Project picture

1-2 Frequency Band:

Frequency Band	MHz
WiFi/BT	2400-2500
Gain	1.5dBi
天线 cable loss	0.5dbm

1-3 Impedance matching

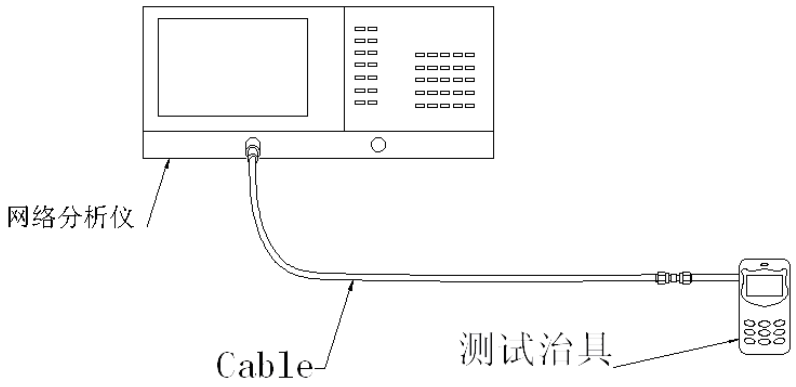
2.VSWR

2-1 Measuring Method:

1. A 50 Ωcoaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the VSWR,

2. Keeping this jig away from metal at least 20cm.

The test schematic diagram is as follows:



2-2 S11 parameter values

频率（MHZ）	2400	2500

standing wave	1.3	1.4

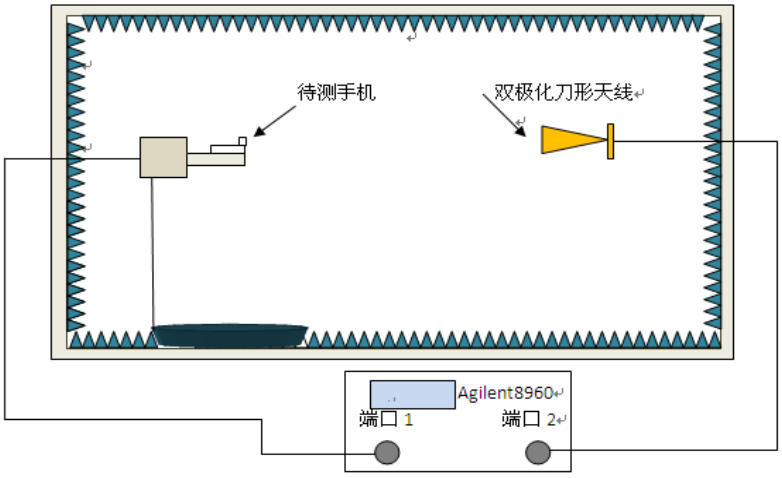
2. Efficiency and Gain

3. *measuring and test instruments:

Microwave darkroom, Agilent network analyzer, Agilent spectrum analyzer, 8960 comprehensive tester, standard antenna.

***test method:**

Equipment is fixed at the center of turntable with H plane, which is on the same horizontal line with the center of horn



antenna.

4. The production index

When the antenna is mass-produced, the standing wave ratio is used as the mass-production test standard. According to the differences of the project itself, the following standards are given:

frequency	Mass production standard
WIFI /BT(2400-2500MHZ)	VSWR（量产产品）<VSWR(设计样品)+0.5

Frequency(MHz)	Return Loss (dB)	dBi
2400	-14.19	1.50
2450	-15.46	1.4
2500	-15.56	1.45