

WA-P-LA-02-307-B Specification

1. Explanation of part number :

WA - P - LA - 02 - 307 - B
(1) (2) (3) (4) (5) (6)

(1) Product Type : Wireless Antenna

(2) Material: PCB+CABLE

(3) Frequency : 2400MHz-2500MHz

(4) Coaxial Cable Type : 02

(5) Suffix :307

(6) B:車用前裝

2. Storage Condition:

Temperature -40 to +90°C
Humidity 65±20 % RH

3. Operating Condition:

Temperature -40 to +90°C
Humidity 65±20 % RH

4. Electrical Specification :

Those specifications were specially defined for 惠州华阳-HA1022A BT model, and all characteristics were measured under the model's handset testing.

4-1. Frequency Band:

Frequency Band	MHZ
WIFI1-2.4G	2400MHz-2500MHz

UNLESS OTHER SPECIFIED TOLERANCES ON :

X = ± X.X = ± X.XX = ±

ANGLES = ± HOLEDIA = ±

SCALE :

DRAWN BY : 曹云中

DESIGNED BY : 张恕旗



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4-2. Impedance

50 ohm nominal

4-3. Matching circuit

None

4-4. VSWR

4-4.1 Measuring Method

1. A 50Ω coaxial cable is connected to the antenna. Then this cable is connected

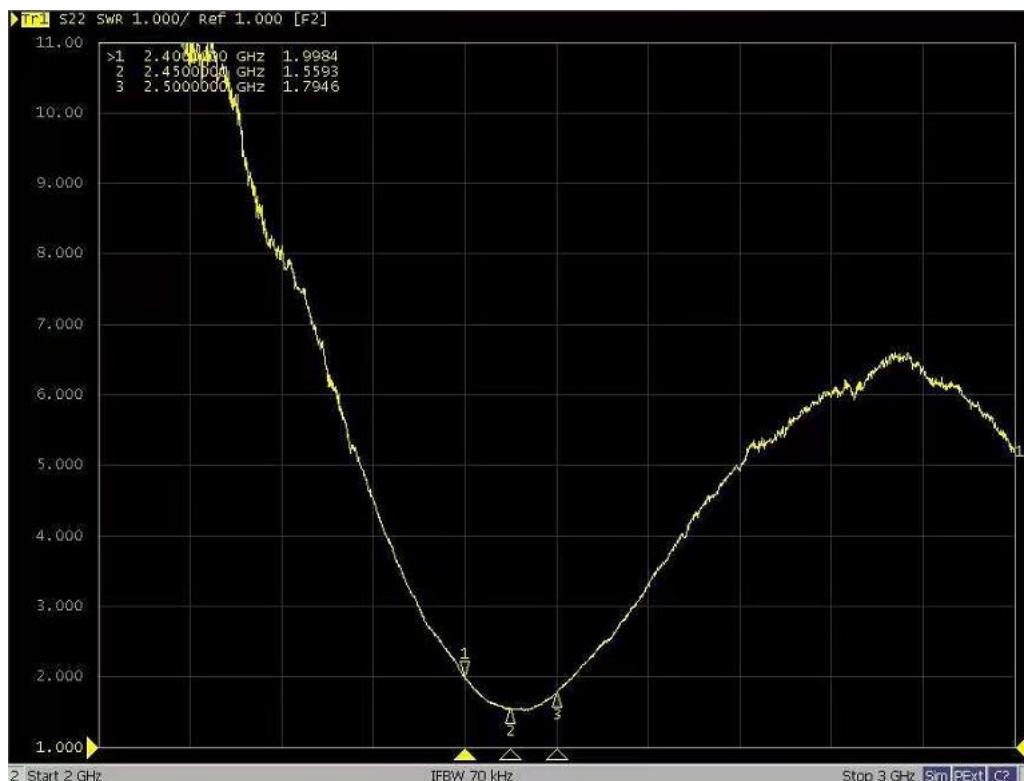
to a network analyzer to measure the VSWR

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

4-4.2 Measurement frequency points and VSWR value

➤ WiFi1

Frequency (Unit MHz)	2400	2450	2500
VSWR	1.99	1.55	1.79



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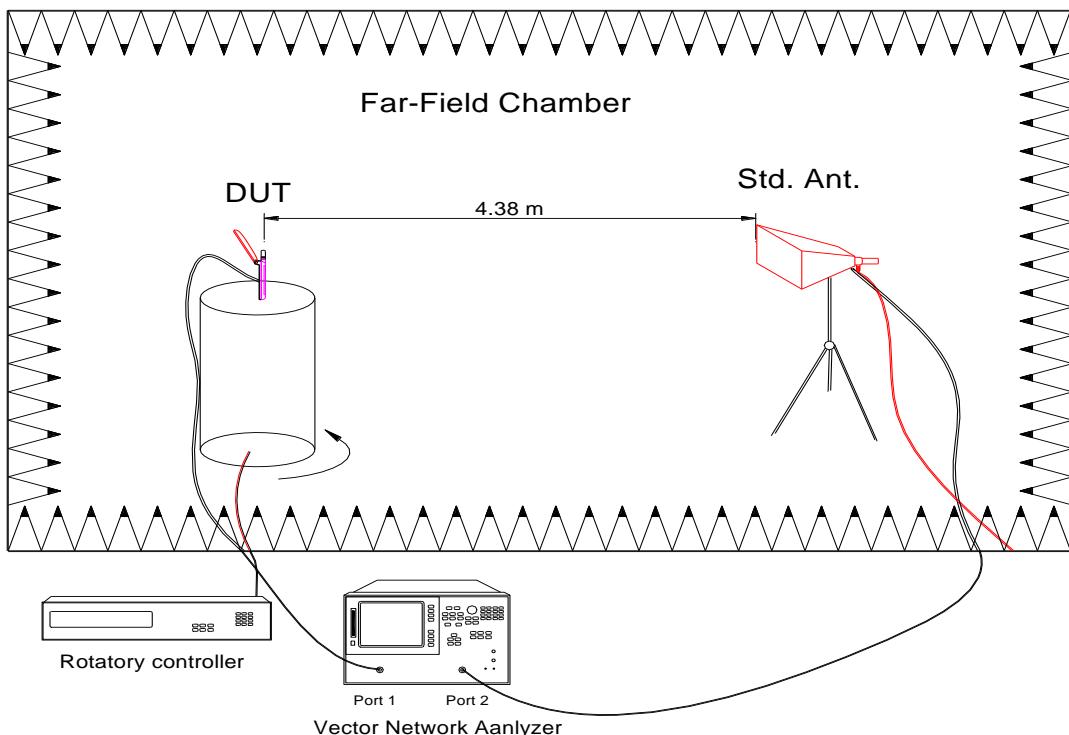
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4-5. Efficiency and Gain

4-5.1 Measure method

1. Using a low loss coaxial cable to link a standard handset
2. Fixed this handset jig on chamber's rotator plane
3. Linking jig into network analyzer port and using a probing horn antenna to collect data.
4. Using another standard gain horn antenna to calibrated those data

4-5.2 Chamber definition



1. An anechoic chamber (7mx4mx3m) which satisfied far-field condition was applied to avoid multi-path effect
2. The quite room region is 40cmx40cmx40cm at the center of rotator
3. The distance between DUT and standard antenna is 4.38 m
4. Probing antenna (9120D horn antenna) and standard gain horn antenna (BBHA9120 LPF 700MHz ~6GHz)

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4-5.3 Efficiency and Gain

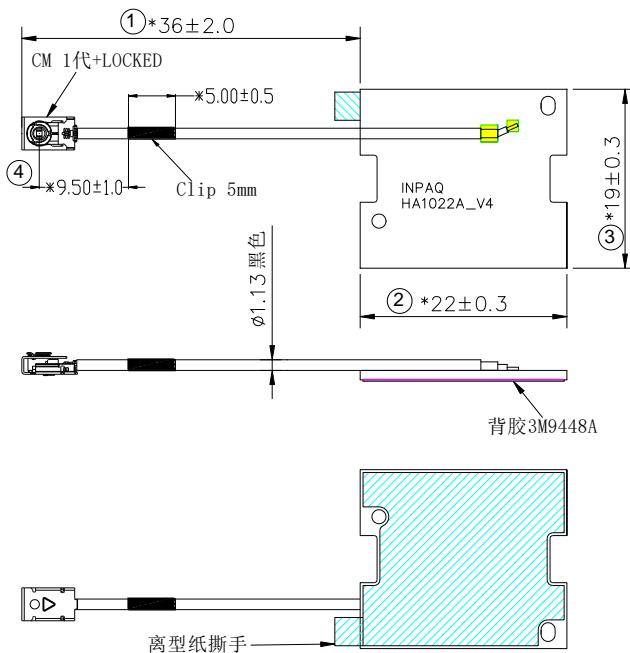
Antenna gain is marked (dBi) and is based on STANDARD HORN antenna. The data shows Peak Gain and Average Gain.

Freq. (MHz)	Efficiency (%)	Peak Gain (dBi)
2400	50.55	1.89
2410	51.35	1.65
2420	53.46	2.02
2430	55.21	1.83
2440	55.98	1.87
2450	56.88	2.01
2460	56.36	1.72
2470	55.98	2.04
2480	55.41	1.54
2490	55.26	1.79
2500	54.54	1.38

5. Mechanical Specification:

5-1. Mechanical Configuration (Unit: mm)

The appearance of the antenna is according to drawing Figure 5-1-1



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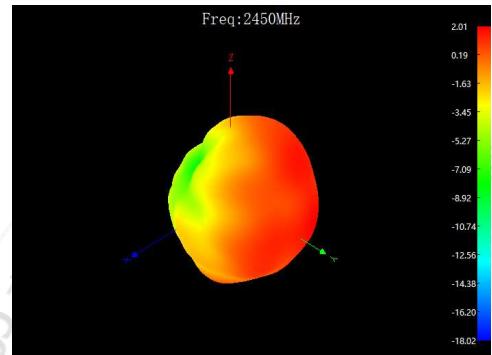
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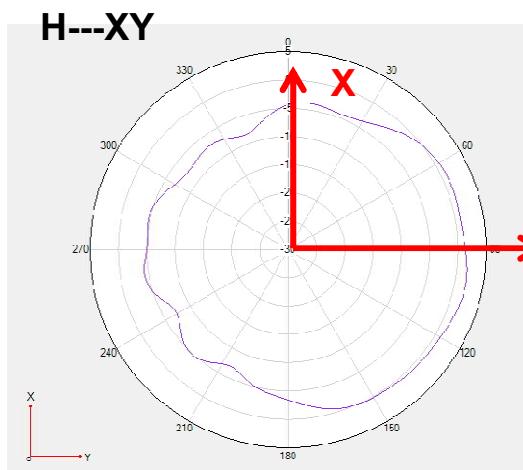
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3D/2D Radiation Pattern Results



2450MHz



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