

WAG-M-LA-00-095 Specification

1. Explanation of part number:

WAG - M - LA - 00 - 095
(1) (2) (3) (4) (5)

(1) Product Type: Wireless Antenna

(2) Material: Metal

(3) Frequency: 2400-2500MHz

(4) Coaxial Cable Type: 00

(5) Suffix: 095

2. Storage Condition:

Temperature -40 to +70 °C
Humidity 65±20 % RH

3. Operating Condition:

Temperature -40 to +70 °C
Humidity 65±20 % RH

4. Electrical Specification:

Those specifications were specially defined for 积木 G01 WIFI model, and all characteristics were measured under the model's handset testing.

4-1. Frequency Band

Frequency Band	MHz
WIFI	2400-2500

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=± X.X=± X.XX=±

ANGLES=± HOLEDIA=±

SCALE : UNIT : mm

DRAWN BY : 靳静 CHECKED BY : 赵付辉

DESIGNED BY : 渠宏坚 APPROVED BY : 赵付辉

TITLE : WAG-M-LA-00-095 Specification



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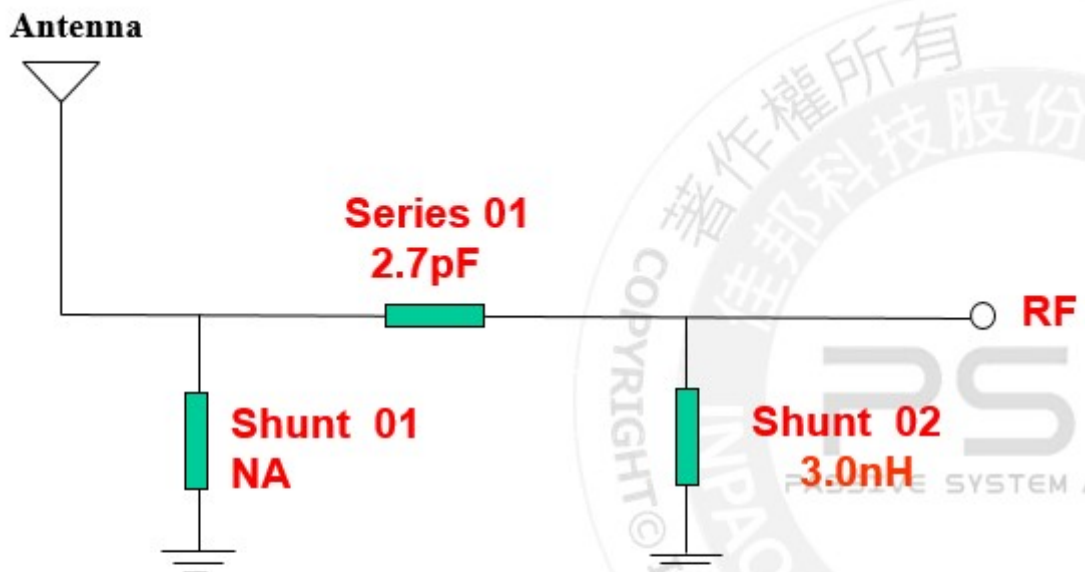
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4-2. Impedance

50 ohm nominal

4-3. Matching circuit



Location	Description	Vendor
Shunt 01	NA	NA
Series 01	2.7pF	Murata
Shunt 02	3.0nH	Murata

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

Frequency (Unit MHz)	2400	2450	2500
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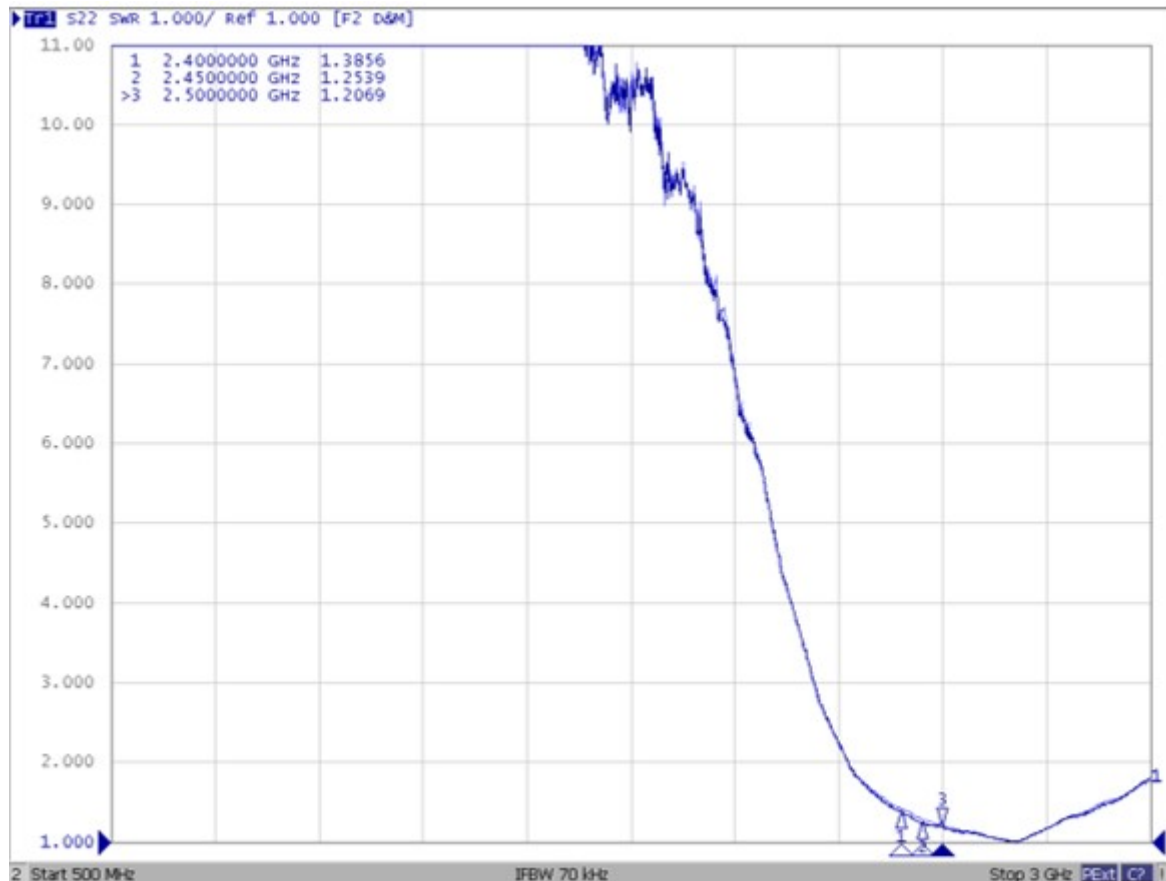
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VSWR

1.38

1.25

1.20



4-5. Efficiency and Gain

4-5.1 Measure method

1. Using a low loss coaxial cable to link a standard handset jig
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

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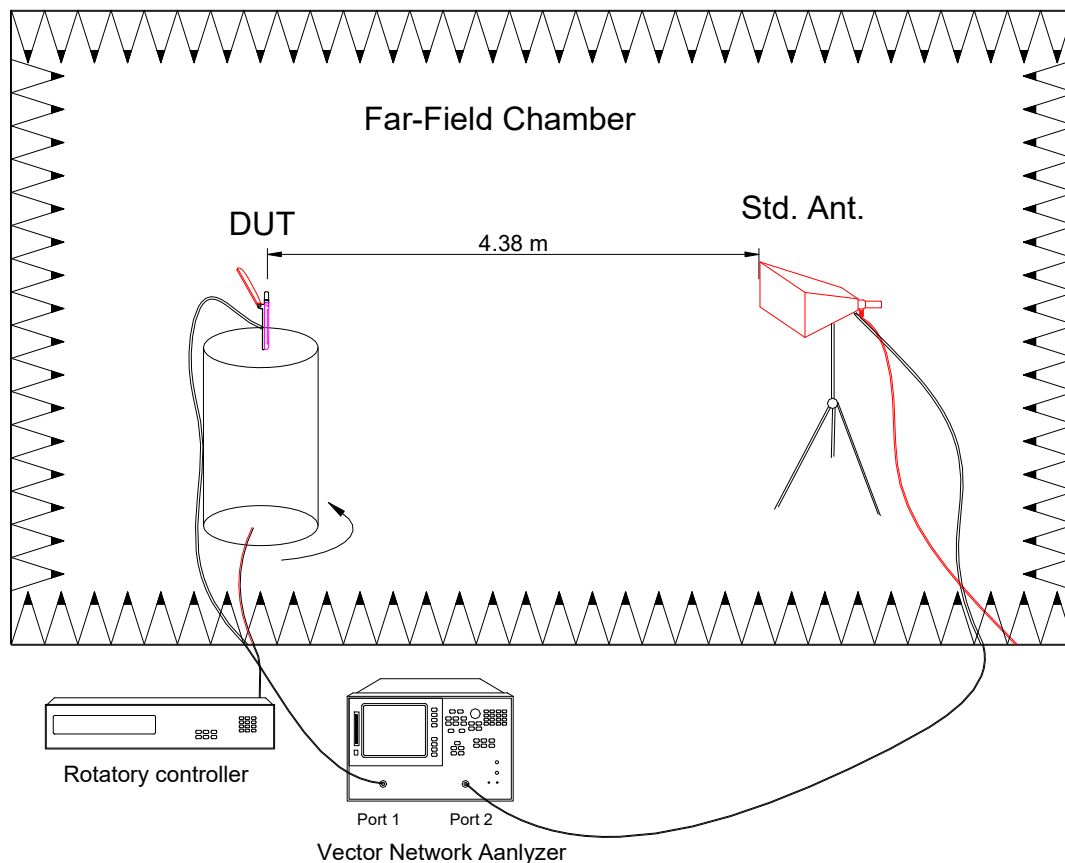


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1. An anechoic chamber (7mx4mx3m) which satisfied far-field condition was applied to avoid multi-path effect
2. The quiet room region is 40cmx40cmx40cm at the center of rotator
3. The distance between DUT and standard antenna is 4.38 m
4. Probing antenna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

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.

Frequency (MHz)	2400	2450	2500
Efficiency (%)	51.54	54.75	53.95
Gain (dBi)	2.69	2.44	2.32

2.4G 2D&3D Radiation Pattern

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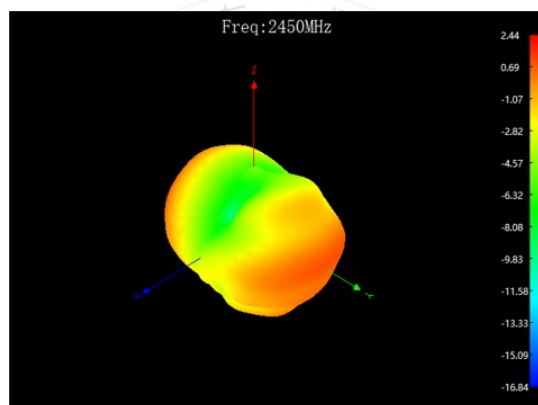
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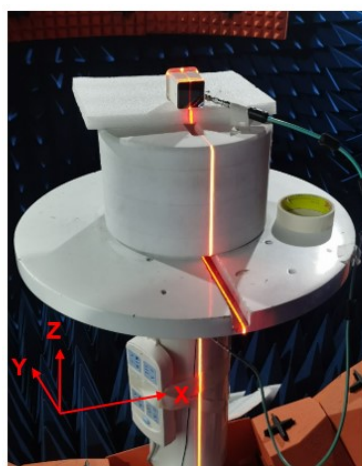
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3D Radiation Pattern Results

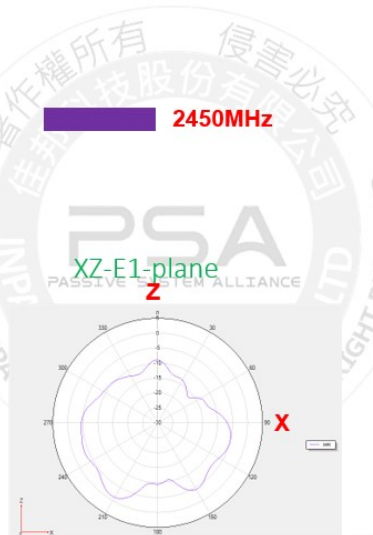


2450MHz

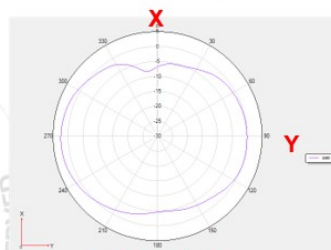
2D Radiation Pattern Results



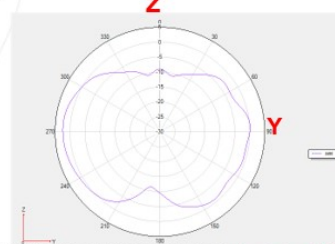
PASSIVE SYSTEM ALLIANCE
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XY-H-plane



YZ-E2-plane



WE CONNECT WE PROTECT

5. Mechanical Specification:

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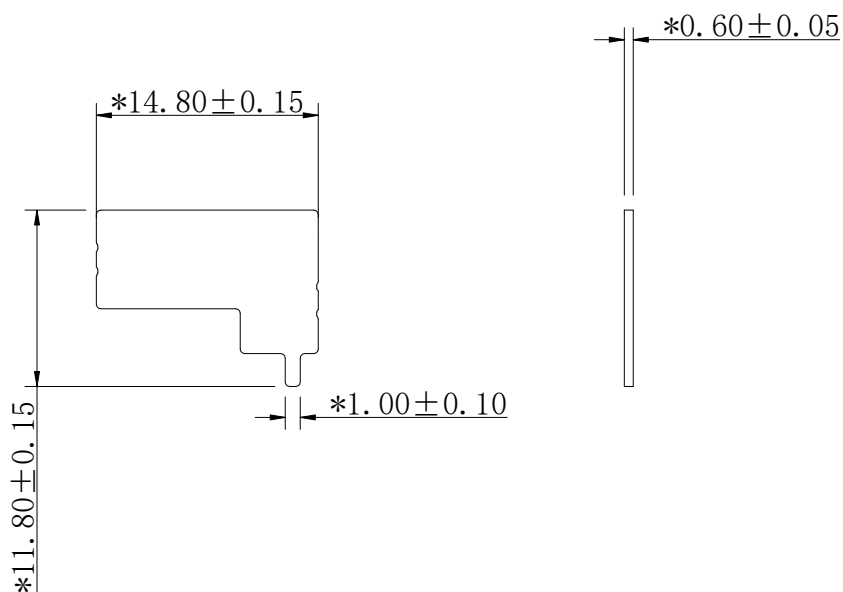
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5-1. Mechanical Configuration (Unit: mm)

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



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