

WAG-P-LA-00-017 Specification

1. Explanation of part number:

WAG - P - LA - 00 - 017
(1) (2) (3) (4) (5)

(1) Product Type: Wireless Antenna

(2) Material: PCB

(3) Frequency: 2400-2500MHz

(4) Coaxial Cable Type: 00

(5) Suffix: 017

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 **迪芬尼 HZ DP5 BLE antenna** model, and all characteristics were measured under the model's handset testing.

4-1. Frequency Band:

Frequency Band	MHz
BLE	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



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TITLE : WAG-P-LA-00-017 Specification

DOCUMENT NO.

PAGE REV.
A0

4-2. Impedance

50 ohm nominal

4-3. Matching circuit

None

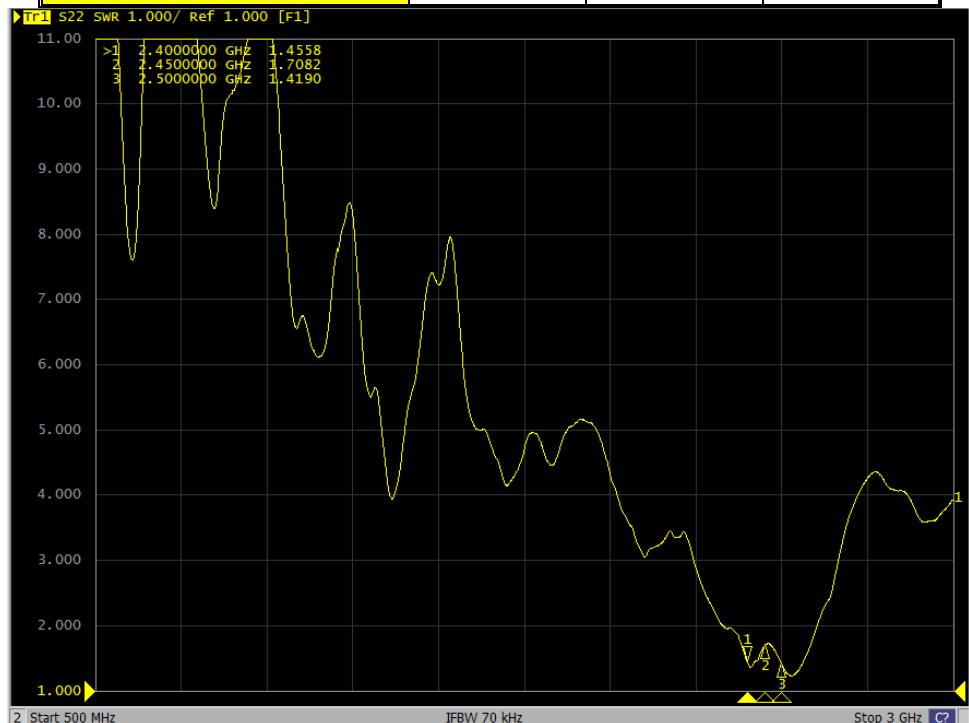
4-4. VSWR

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

Frequency (Unit MHz)	2400	2450	2500
VSWR	1.45	1.70	1.41



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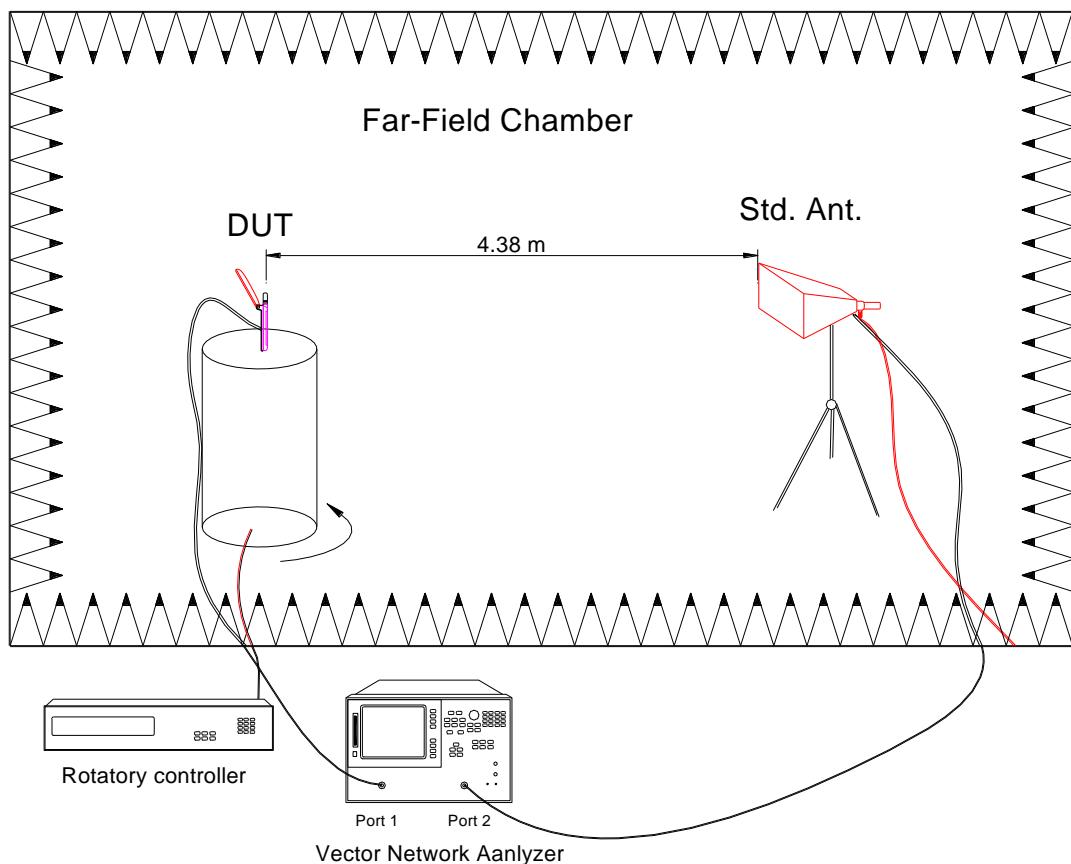
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4-5. Efficiency and Gain

4-5.1 Measure method

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



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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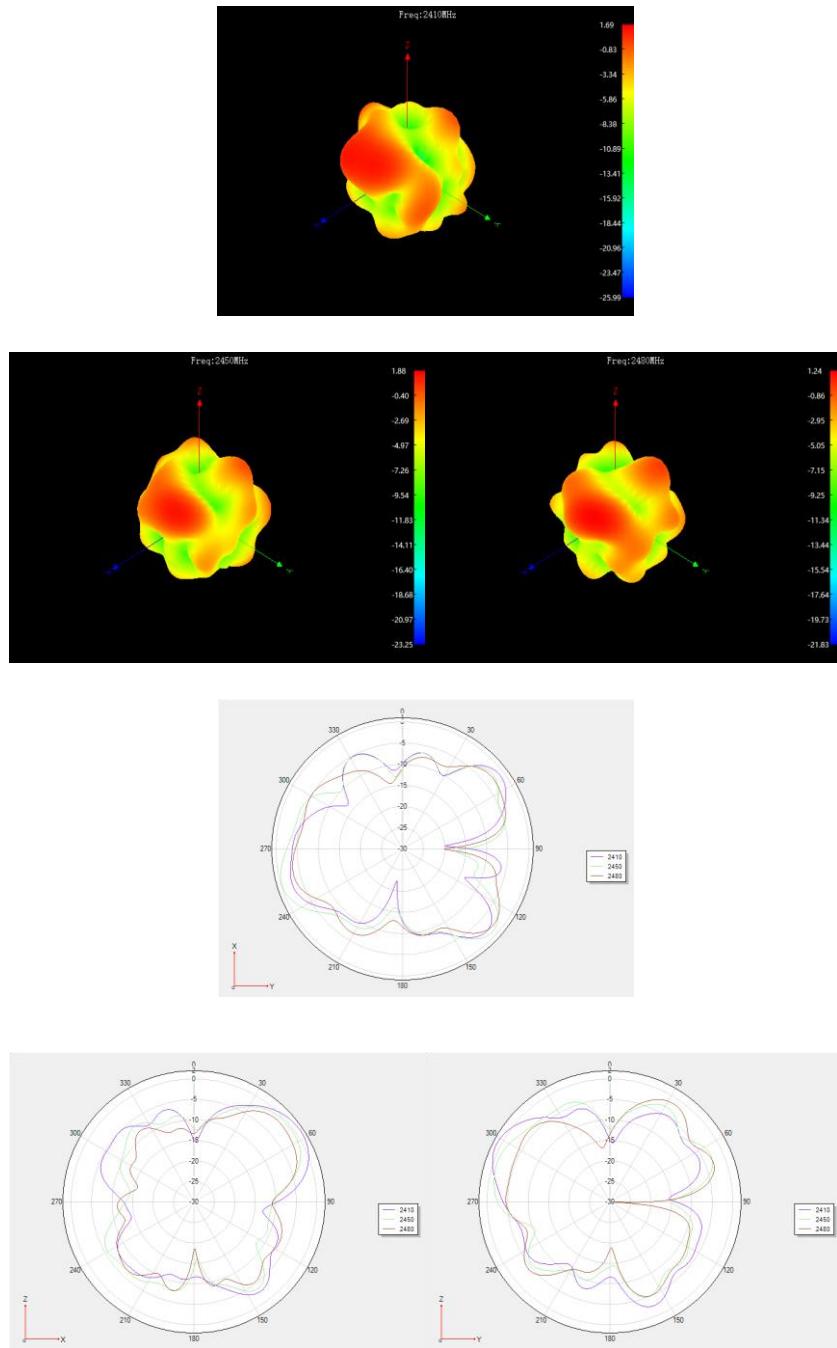
PAGE REV.
A0

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 (%)	40.5	40.93	40.07
Gain (dBi)	2.21	1.88	1.34

2.4G 2D&3D Radiation Pattern



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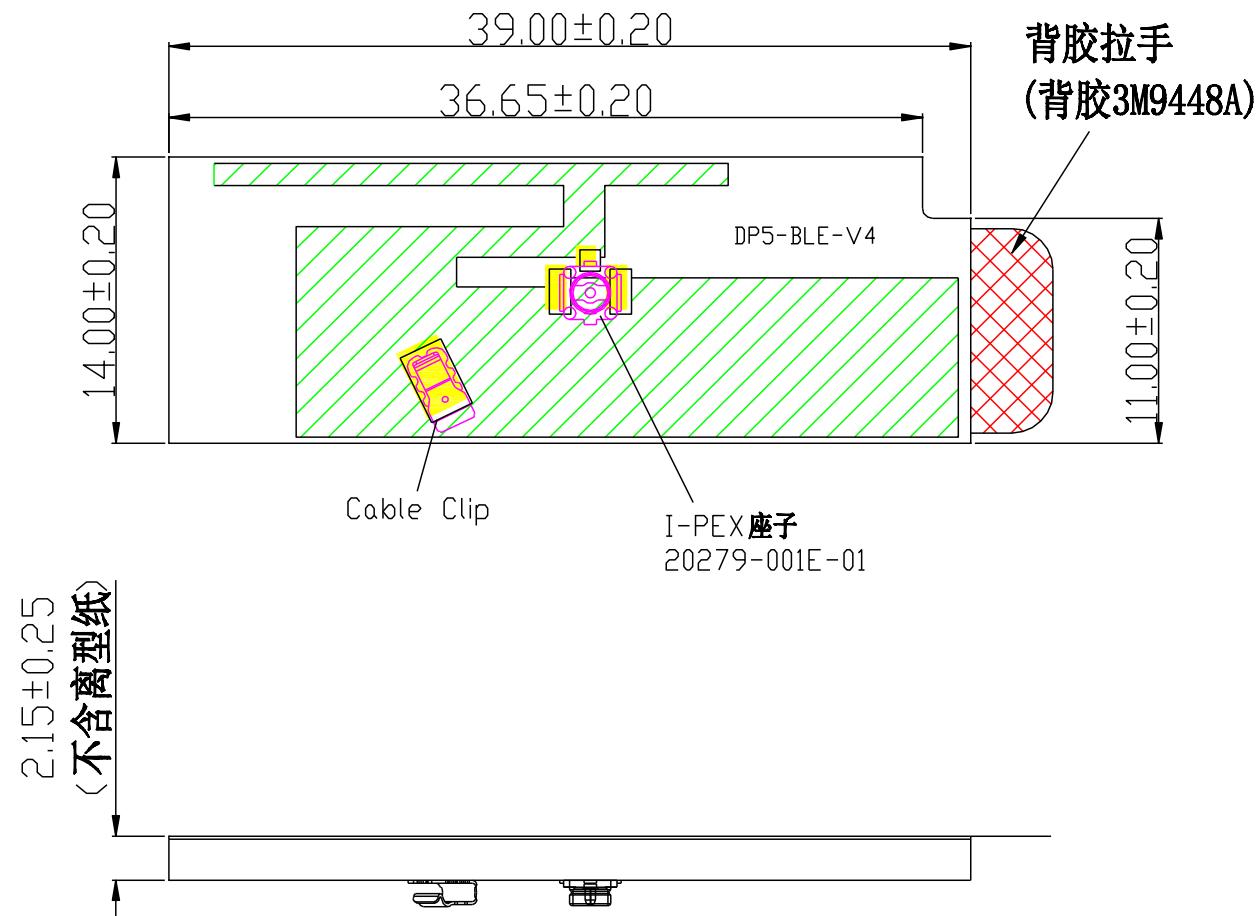
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NO.

PAGE REV.
A0

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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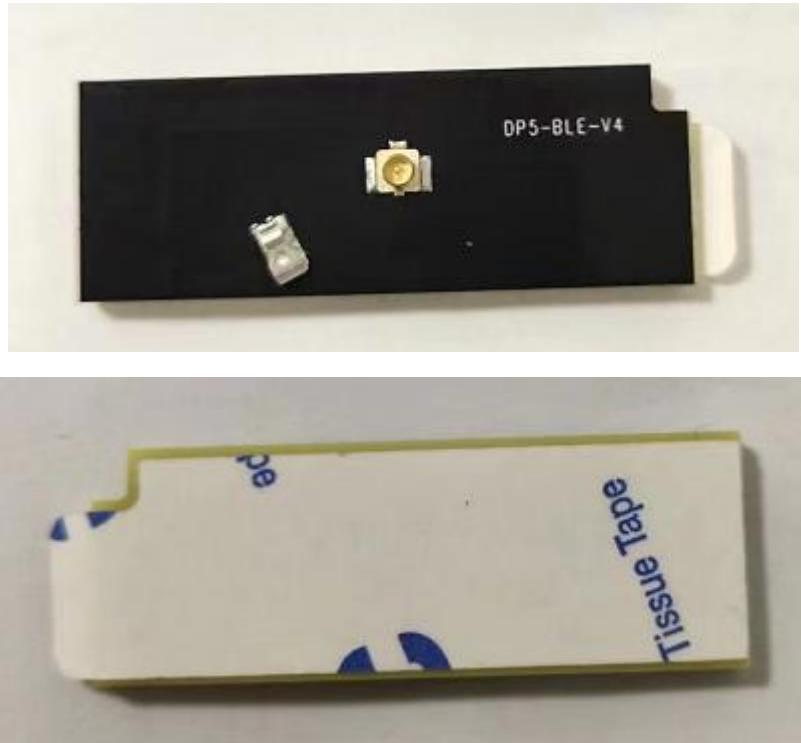
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DOCUMENT
NO.

PAGE REV.
A0

6. Physical illustration



7. Factory address

Factory: 禾邦電子(蘇州)有限公司 INPAQ Technology (Suzhou)

Co., Ltd.

地址: 苏州相城区黄埭镇春秋路 5 号 No.5 Chunqiu Road, Panyang Industrial Park Huangdai Town, Xiangcheng Zone, Suzhou Jiangsu Province China

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