WAG-M-S6G5-00-003 Specification

1. Explanation of part number：

WAG	_	M	_	S6G5	_	00	_	003
(1)		(2)		(3)		(4)		(5)

(1) Product Type：Wireless Antenna

(2) Material：Metal

(3) Frequency：6400-8000MHz

(4) Coaxial Cable Type：00

(5) Suffix：003

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 UWB antenna*** *model, and all characteristics were measured under the model's handset testing.*

4-1. Frequency Band:

Frequency Band	MHz
UWB antenna	6400-8000

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4-2. Impedance

50 ohm nominal

4-3. Matching circuit

None

4-4. VSWR

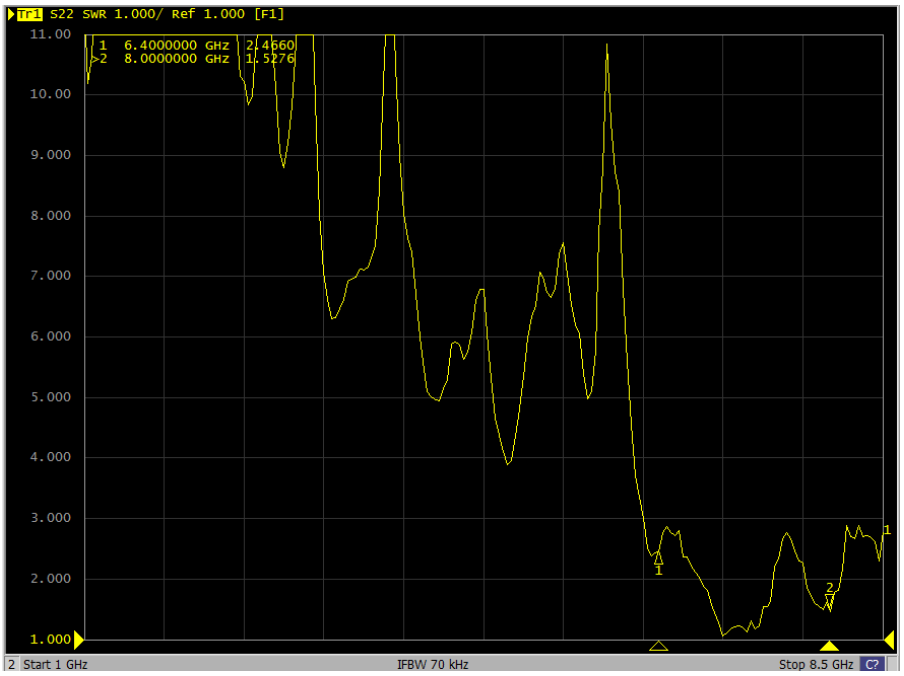
4-4.1 Measuring Method

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

Frequency (Unit MHz)	6400	8000
VSWR	2.4	1.5



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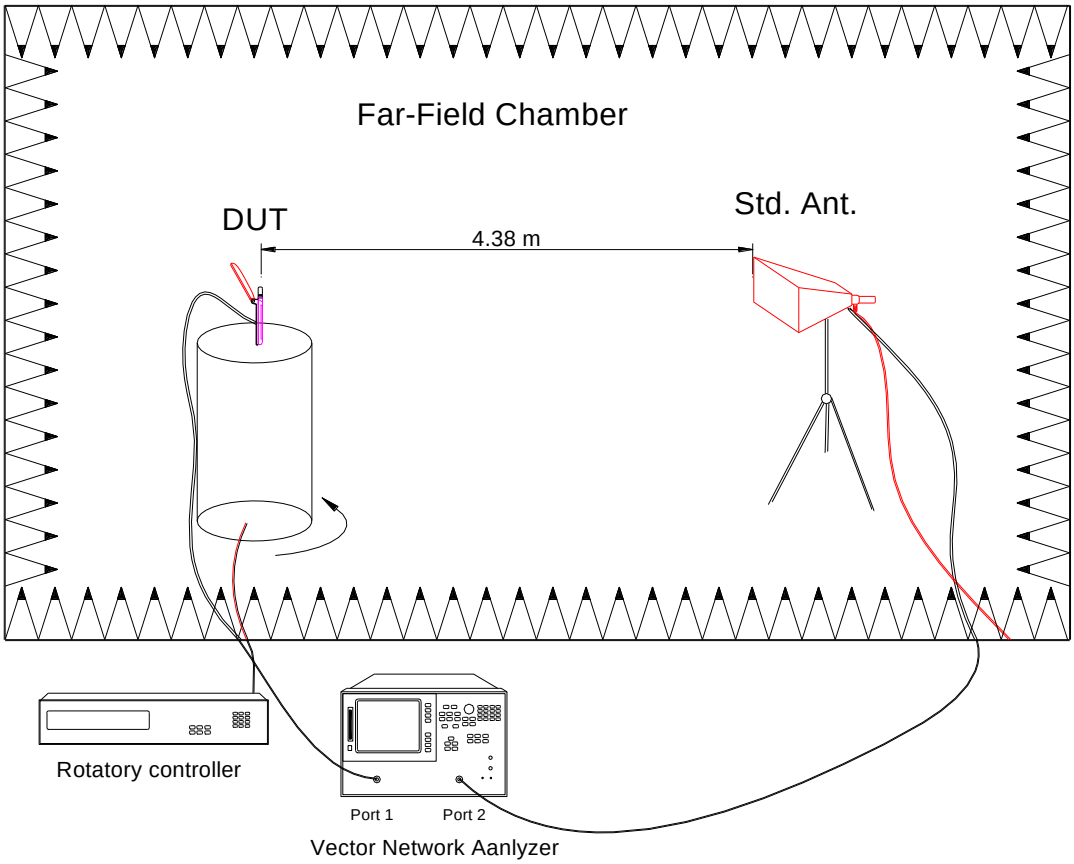
4-5. Efficiency and Gain

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



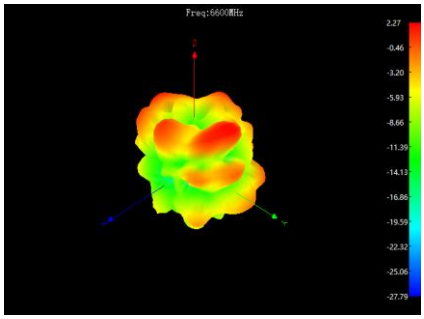
1. An anechoic chamber (7mx4mx3m) which satisfied far-field condition was applied to avoid multi-path effect
2. The quite room region is 40cmx40cmx40cm at the center of rotator
3. The distance between DUT and standard antenna is 4.38 m
4. Probing antenna (9120D horn antenna) and standard gain horn antenna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

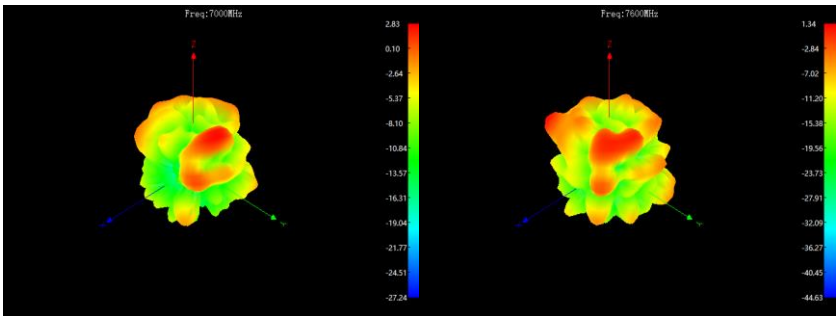
4-5.3 Efficiency and Gain

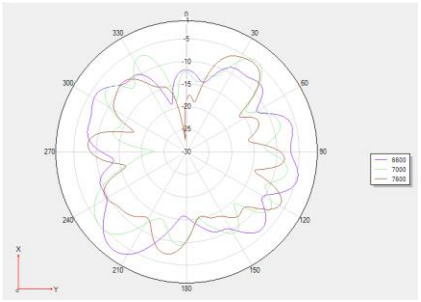
Antenna gain is marked (dBi) and is based on STANDARD HORN antenna. The data shows Peak Gain and Average Gain.

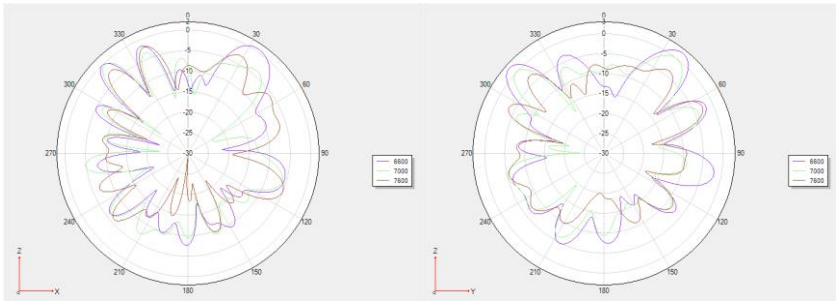
Frequency (MHz)	6400	7000	8000
Efficiency (%)	34.12	31.92	26.73
Gain (dBi)	2.19	2.83	0.2

2.4G 2D&3D Radiation Pattern









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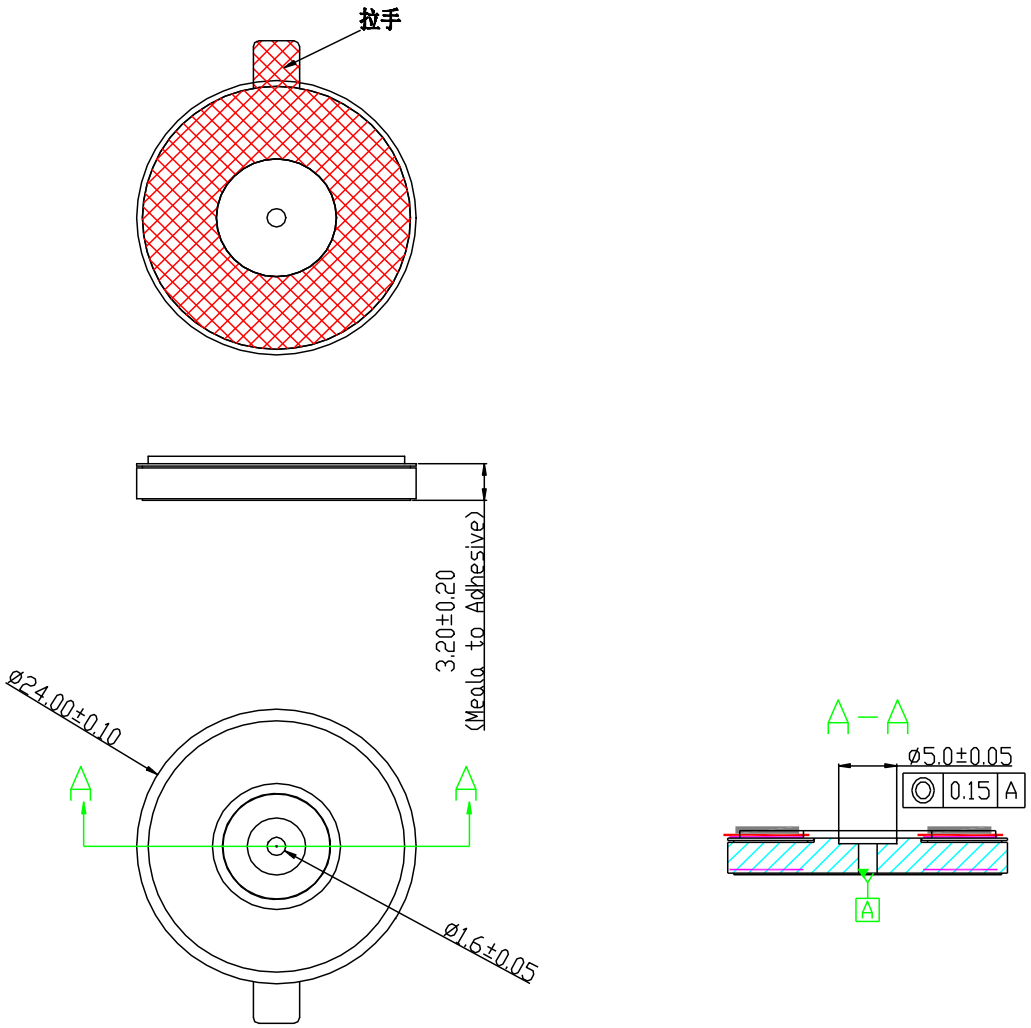
5. Mechanical Specification:

5-1. Mechanical Configuration (Unit: mm)

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



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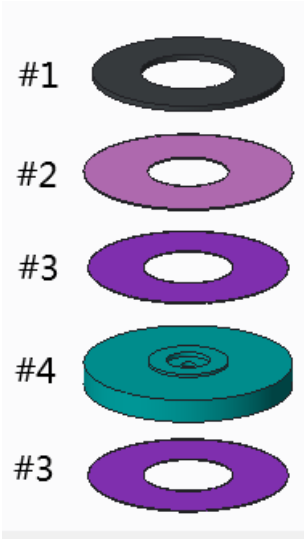

Item	Part name	Material	Size	Qty	Remark
1	Foam	EVA 38(black), adhesive 3M 9448A	OD22xID11xT0.65mm	1pcs	
2	Metal	Nickel silver(C7521, 1/2H, T0.2mm)	OD24xID9.3xT0.2mm	1pcs	Key part
3	Adhesive	3M 9448A	OD23xID10.3xT0.15mm	2pcs	
4	Spacer	LCP 黑色 KD130BI-C600	OD24xID1.6xH3.05mm	1pcs	Key part

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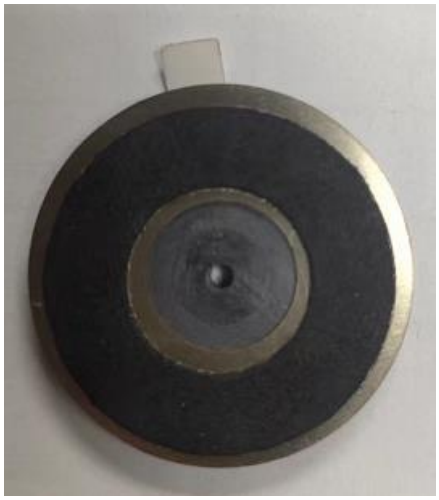
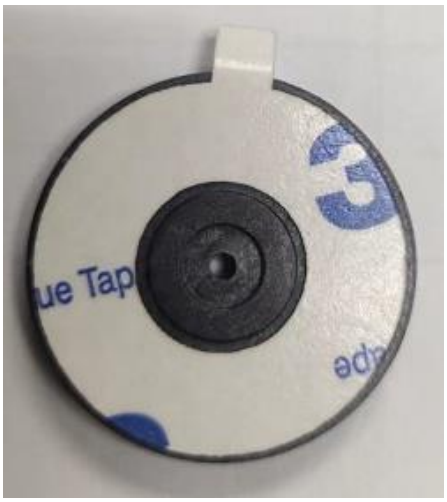
6. Physical illustration





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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