

WA-P-LA-03-328 Specification

1. Explanation of part number:

WA - P - LA - 03 - 328
(1) (2) (3) (4) (5)

(1) Product Type: Wireless Antenna

(2) Material: PCB+ Cable

(3) Frequency:2400-2500MHz

(4) Coaxial Cable Type:03

(5) Suffix :328

(6) Gain (Peak) : 2400-2500MHz: 4.53dBi

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 3000REvolution BT model, and all characteristics were measured under the model's handset testing.

4-1. Frequency Band:

Frequency Band	MHz
BT	2400-2500MHz

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=± X.X=± X.XX=±
ANGLES=± HOLEDIA=±



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SCALE : UNIT : mm

DRAWN BY : 骆拓夫 CHECKED BY : 赵付辉

DESIGNED BY : 陈光芒 APPROVED BY : 赵付辉

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4-2. Impedance

50 ohm nominal

4-3. Matching circuit

None

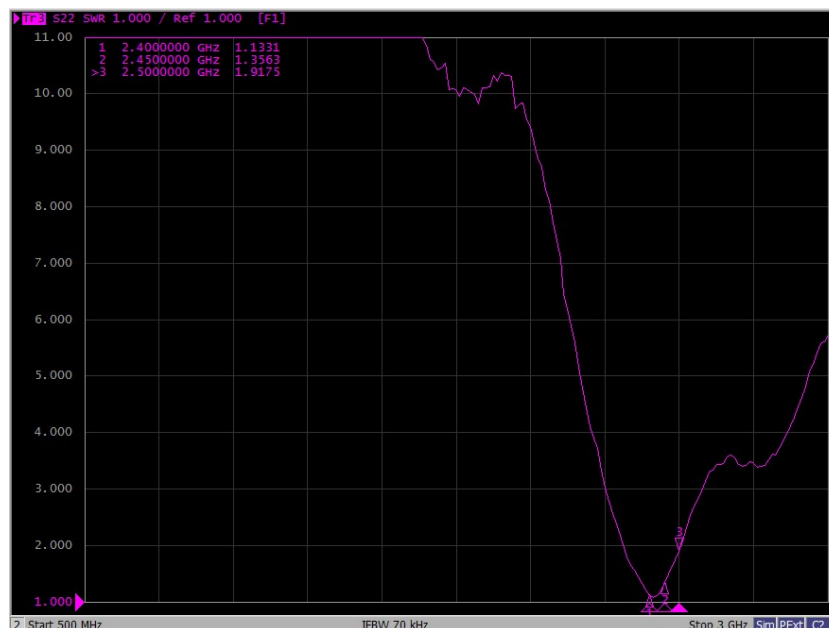
4-4. VSWR

4-4.1 Measuring Method

- 1.A 50 Ω 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	1.13	1.36	1.92



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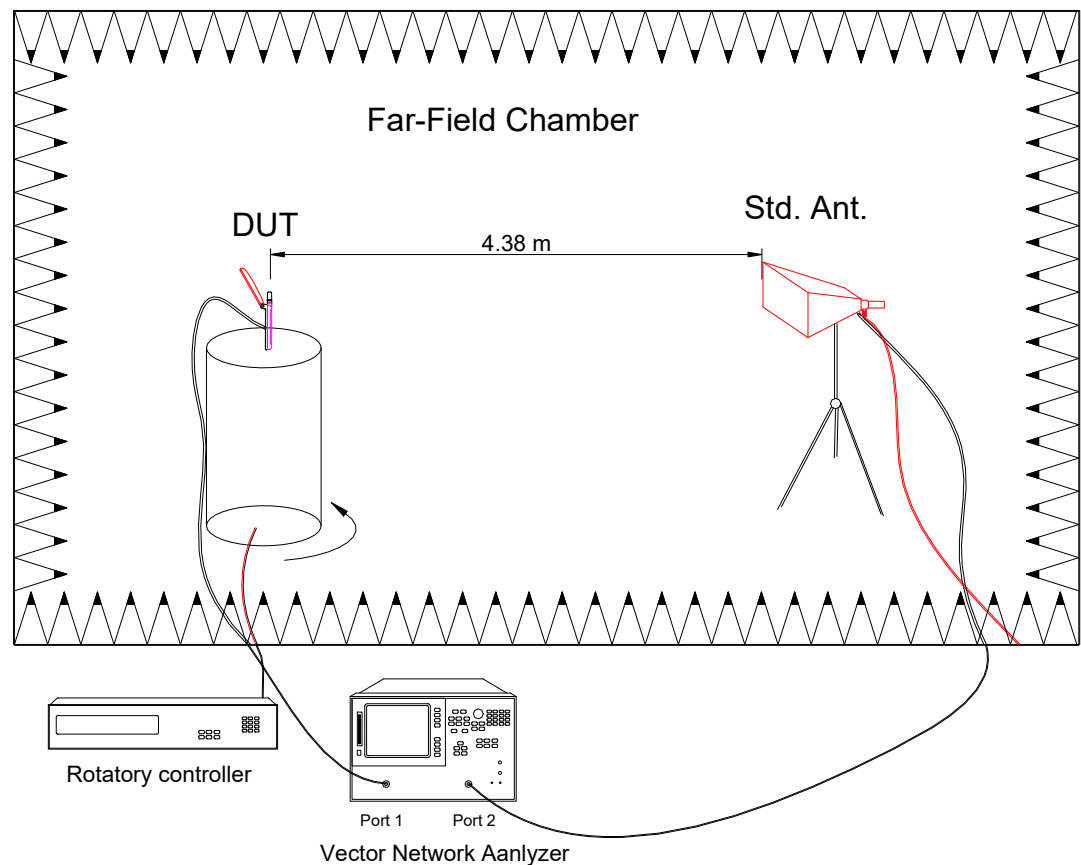
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4-5. Efficiency and Gain

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)

4-5.3 Efficiency and Gain

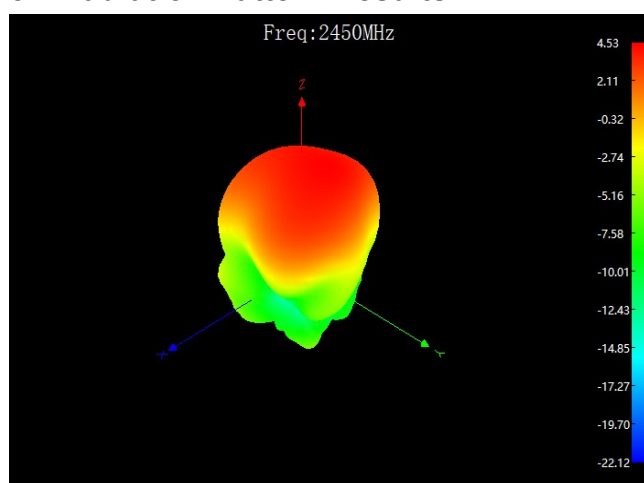
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Antenna gain is marked (dBi) and is based on STANDARD HORN antenna. The data shows Peak Gain and Average Gain.

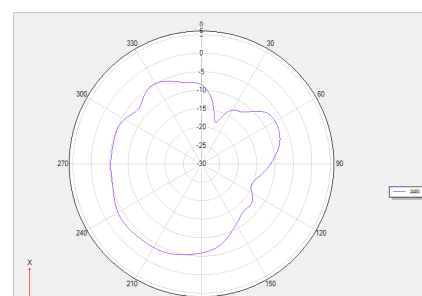
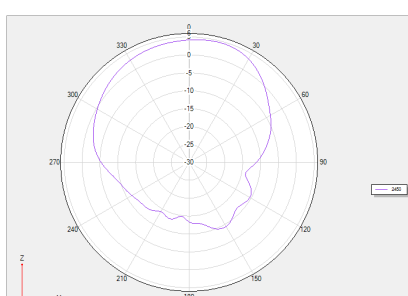
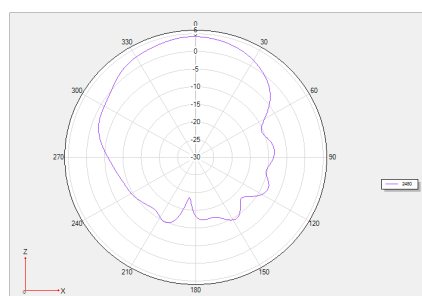
Frequency/Mhz	Efficiency/dB	Efficiency/%	MaxGain/dBi
2400	-2.54	55.75	4.37
2410	-2.5	56.29	4.18
2420	-2.53	55.88	4.46
2430	-2.6	54.94	4.47
2440	-2.76	53.02	4.48
2450	-2.7	53.7	4.53
2460	-2.76	52.95	4.43
2470	-2.82	52.24	4.24
2480	-2.85	51.88	4.07
2490	-3.06	49.43	3.79
2500	-3.14	48.53	3.5

4-6. 3D/2D Radiation Pattern Results

➤ 3D Radiation Pattern Results



➤ 2D Radiation Pattern Results



➤ Physical coordinate Image

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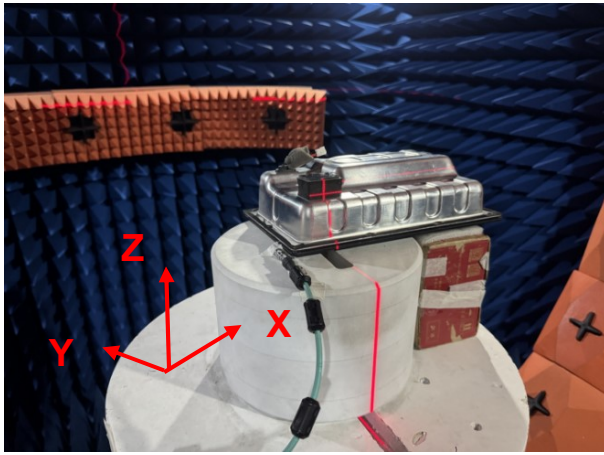


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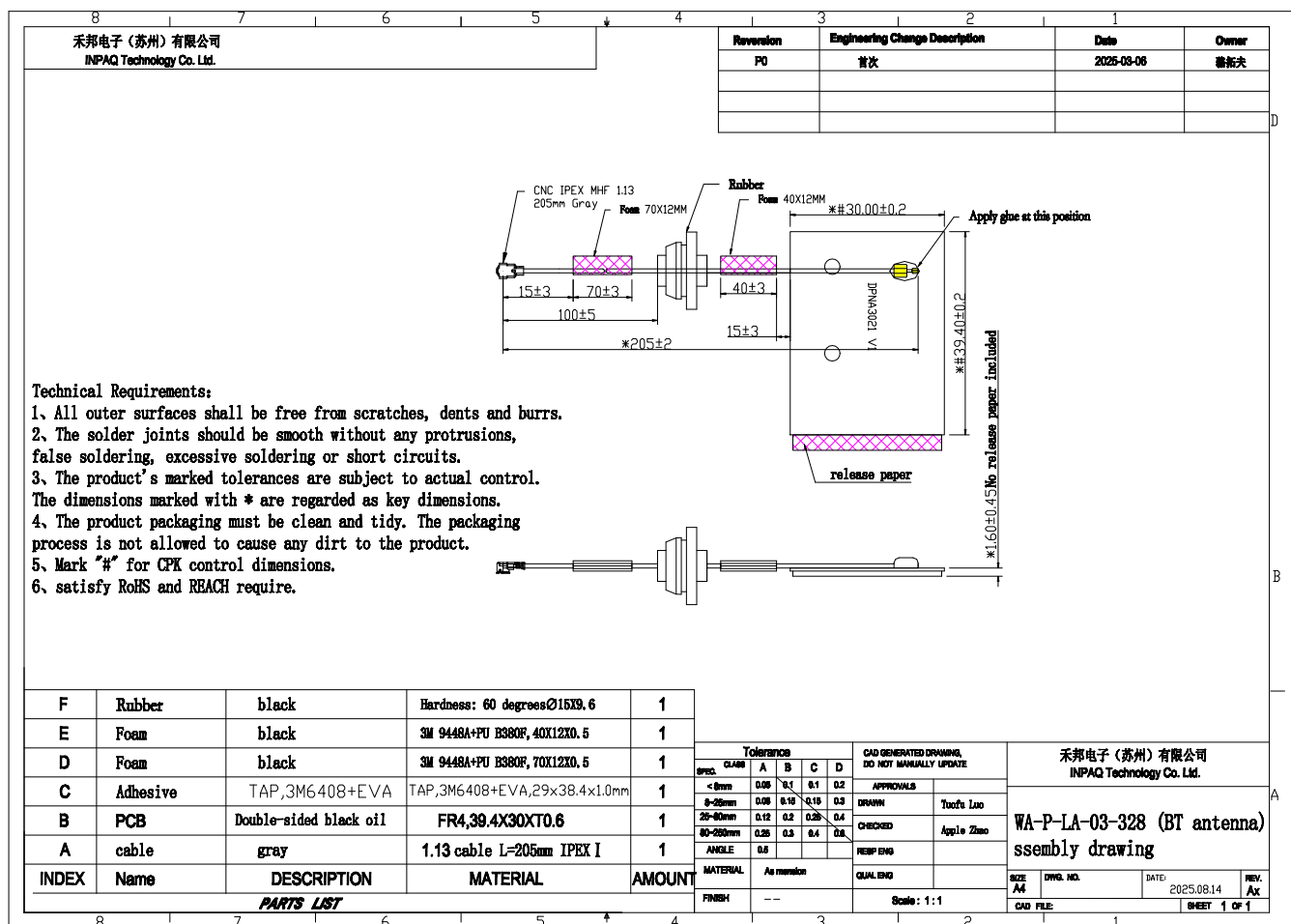


5. Mechanical Specification:

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5-1. Mechanical Configuration (Unit: mm)

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



BT antenna

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ANGLES=± **HOLEDIA=±**

SCALE :	UNIT : mm
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