WA-P-LA-02-210 Specification

1. Explanation of part number :

WA	_	P	_	LA	_	02	_	210
(1)		(2)		(3)		(4)		(5)

(1) Product Type：Wireless Antenna

(2) Material: FPCB

(3) Frequency : 2400-2500MHz&5100-5800MHz

(4) Coaxial Cable Type : 00

(5) Suffix : 210

2. Electrical Specification :

2-1. Frequency Band:

Frequency Band	MHz
WIFI	2400-2500

2-2. Impedance

50 ohm nominal

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DESIGNED BY：范东亚	APPROVED BY： 唐龙		
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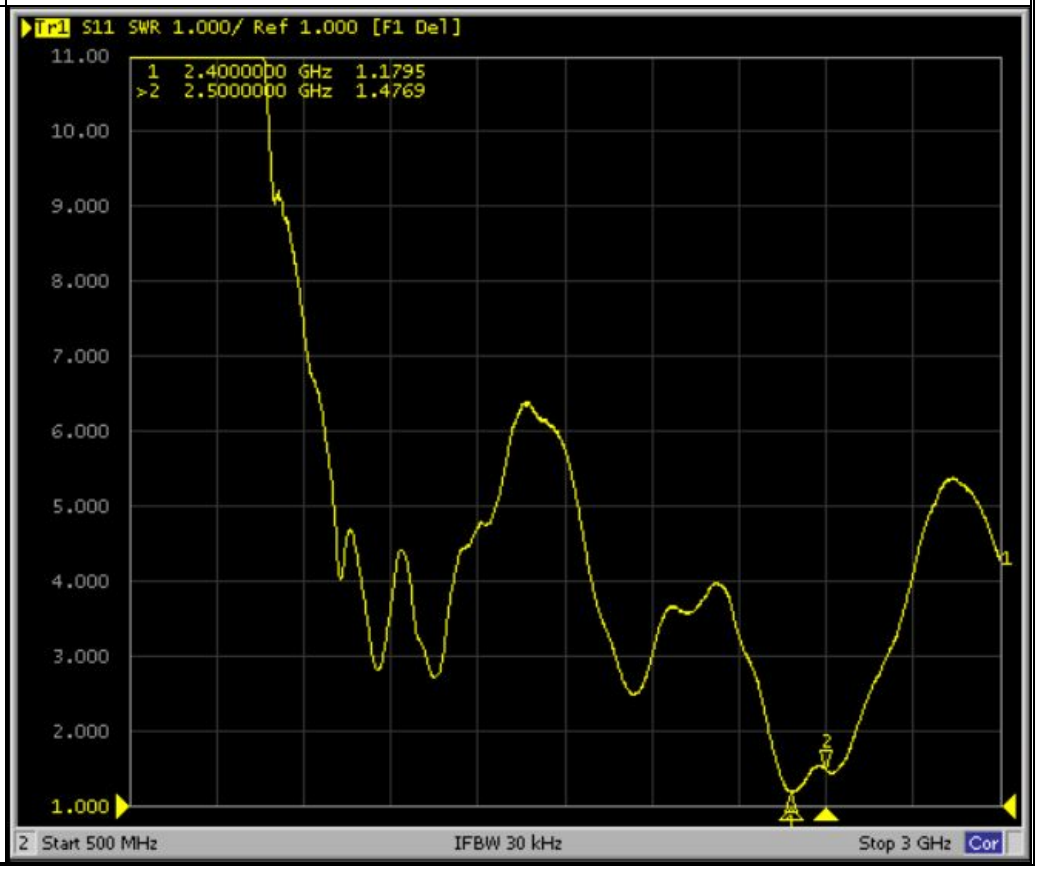
2-3 VSWR:

Frequency Band	2400	2500		
2-3-1. Typical Value:	**≦ 1.7**	**≦ 2.0**		
2-3-2Measuring Method	1. A 50Ω coaxial cable is connected to the PCB. Then this cable is connected to a network analyzer to measure the VSWR. 2. Keeping this jig away from metal at least 20 cm.			
2-3-3Picture				

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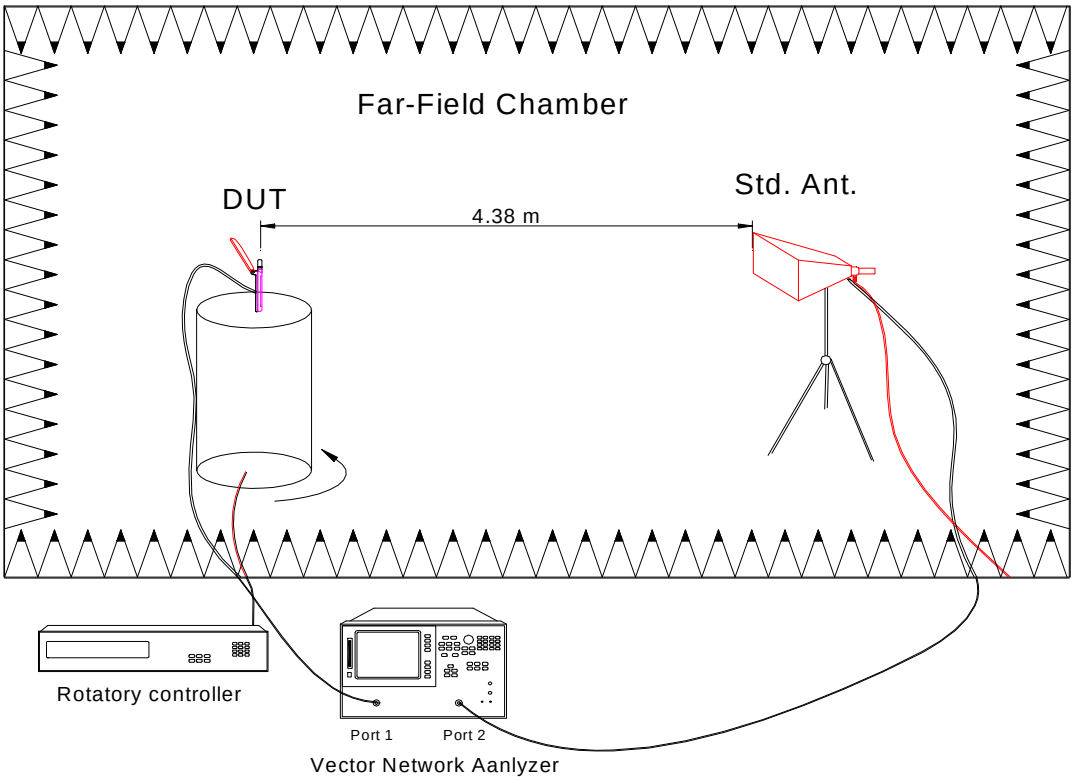
2-4. Gain and Efficiency

2-4.1 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

2-4.2 Chamber definition



1. An anechoic chamber (8mx4mx3.5m) 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)

2-4.3 Gain and Efficiency

Freq(MHZ)	Efficiency (%)	Efficiency (dB)	Peak Gain (dBi)
2400	31.6	-5.0	2.8
2410	34.7	-4.6	2.9
2420	39.8	-4.0	2.7
2430	44.7	-3.5	2.9
2440	43.7	-3.6	2.6
2450	42.7	-3.7	3.0
2460	44.7	-3.5	2.8
2470	47.9	-3.2	2.7
2480	43.7	-3.6	2.9

3. Mechanical Specification:

3-1. Mechanical Configuration (Unit: mm)

The appearance of the antenna is according to drawing Figure 3-1-1

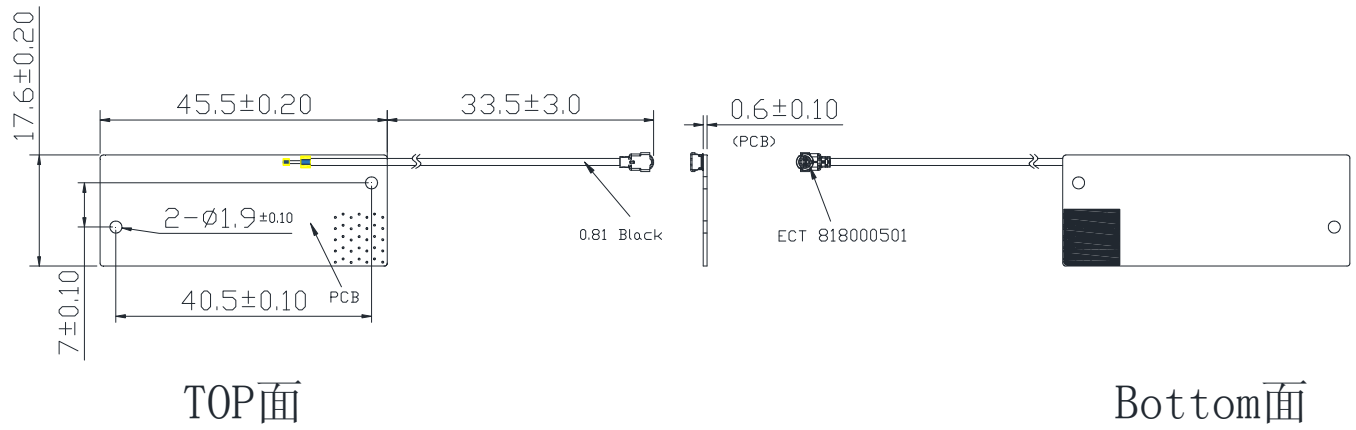


Figure 3-1-1 The antenna drawing

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