

品名: WA-F-LB-01-128 Specification

History List

WA-F-LB-01-128 Specification

1. Explanation of part number :

WA - **F** - **LB** - **01** - **128**

- (1) Product Type: Wireless Antenna
- (2) Material: FPCB
- (3) Frequency : 2400~2500MHz, 5150~5850MHz, 5925~7125MHz
- (4) Coaxial Cable Type : 01
- (5) Suffix :128

2. Storage Condition:

Temperature -40 to +85°C
Humidity 20 to 65 %RH

Recommended storage condition:

Store in room condition as listed below: Temperature -20°C~+45°C, Humidity 80% Max.

3. Operating Condition:

Temperature -40 to +85°C
Humidity 10 to 85 %RH

4. Electrical Specification :

Those specifications were specially defined for **SD04**, and all characteristics were measured in the customer's machine. .

4-1. Frequency Band:

Frequency Band	MHz
WiFi	2400~2500MHz, 5150~5850MHz, 5925~7125MHz

4-2. Impedance

50 ohm nominal

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4-3. VSWR

Frequency Band	2400	2500	5150	5850	5925	7125
Measuring Method	<ol style="list-style-type: none"> 1. A 50Ω coaxial cable is connected to the pcb antenna. Then this cable is connected to a network analyzer to measure the VSWR. 2. Keeping this jig away from metal at least 20 cm. 					
Picture						

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4-4. Efficiency and Gain

4-4-1 Measuring equipment

Measuring instrument:

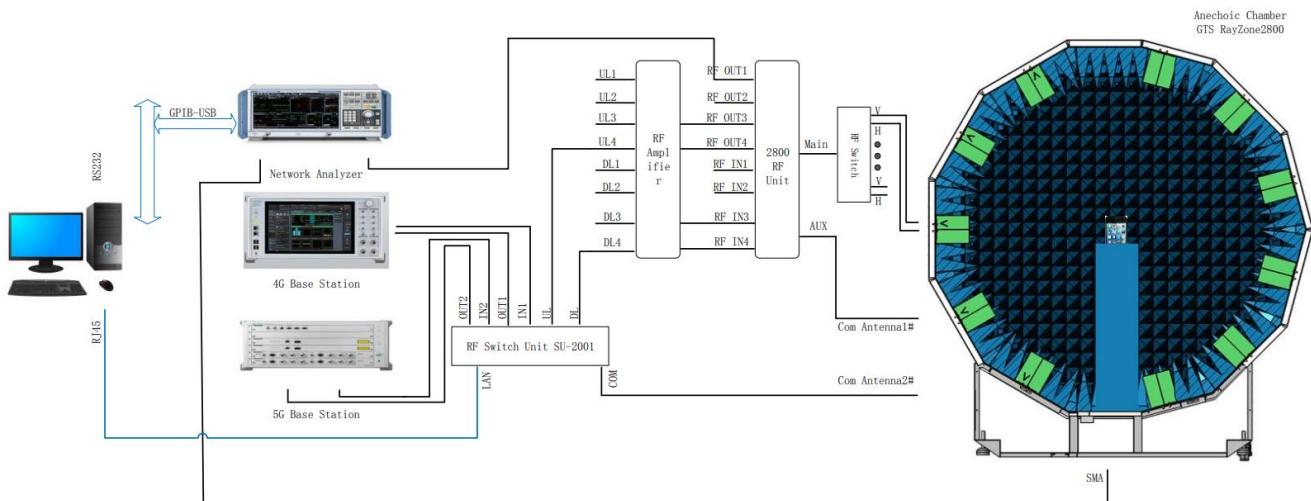
Microwave chamber, Network analyzer, and standard antenna.

Instructions for microwave chamber:

This is a microwave chamber set up by our company in Suzhou. This microwave chamber belongs to a set of near-field measurement system. The size of the chamber is 2.95M * 3M * 3M.



RayZone2800 Test Setup



The microwave chamber, shown above, using a unique multi-probe technique. The aim is to reduce the measurement time of the whole measurement system. The measuring system use multi-probe array instead of single probe to scan the measured surface of the antenna under test, a single probe has the capability of measuring orthogonal polarization amplitude and phase, it also has a wide frequency range, the corresponding multi-probe array is switched quickly by electronic switch, greatly improved the measurement efficiency.

The probe model: MA186960A(400MHz~7.5GHz). Because of its capability of broadband frequency and the orthogonal polarization function, the number of probes needed to be equipped with the system is reduced; The small size of the probe reduces the coupling between the probes, make it is possible to insert probes of other frequency bands between probes, then a single system can support a wider frequency range.

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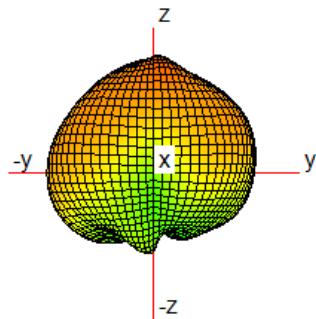
4-4-2 Efficiency and Gain

Freq(MHz)	Efficiency_dB	Efficiency_Pcent	Gain
2400	-6.2	23.9	-0.2
2450	-5.7	26.6	0.7
2500	-6.0	25.3	-0.1
5150	-8.1	15.5	-3.6
5250	-7.2	18.9	-2.1
5350	-8.2	15.3	-2.9
5470	-8.1	15.6	-3.2
5600	-8.2	15.3	-3.6
5725	-7.2	19.0	-2.0
5785	-8.0	15.8	-2.7
5800	-8.2	15.3	-3.0
5850	-8.1	15.4	-2.4
5925	-8.4	14.4	-1.7
6025	-8.6	13.8	-2.2
6125	-8.9	13.0	-2.8
6225	-8.5	14.1	-2.6
6325	-8.8	13.1	-2.5
6425	-8.6	13.9	-2.6
6525	-8.7	13.6	-1.7
6625	-8.6	13.8	-1.5
6725	-8.2	15.2	-0.2
6825	-8.6	13.9	-1.1
6925	-8.6	13.9	-0.8
7025	-8.6	13.7	-1.2
7125	-8.6	13.9	-1.5

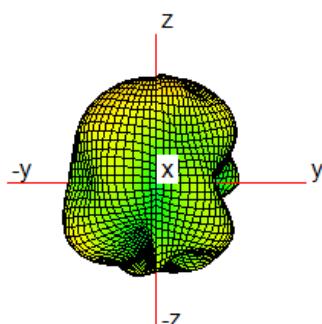
5. Antenna 3D Radiation Pattern:

2450MHz

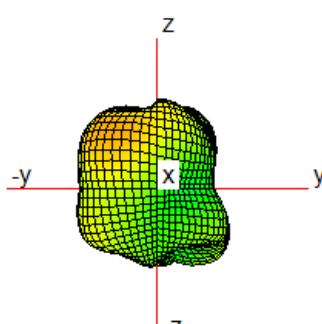
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5470MHz



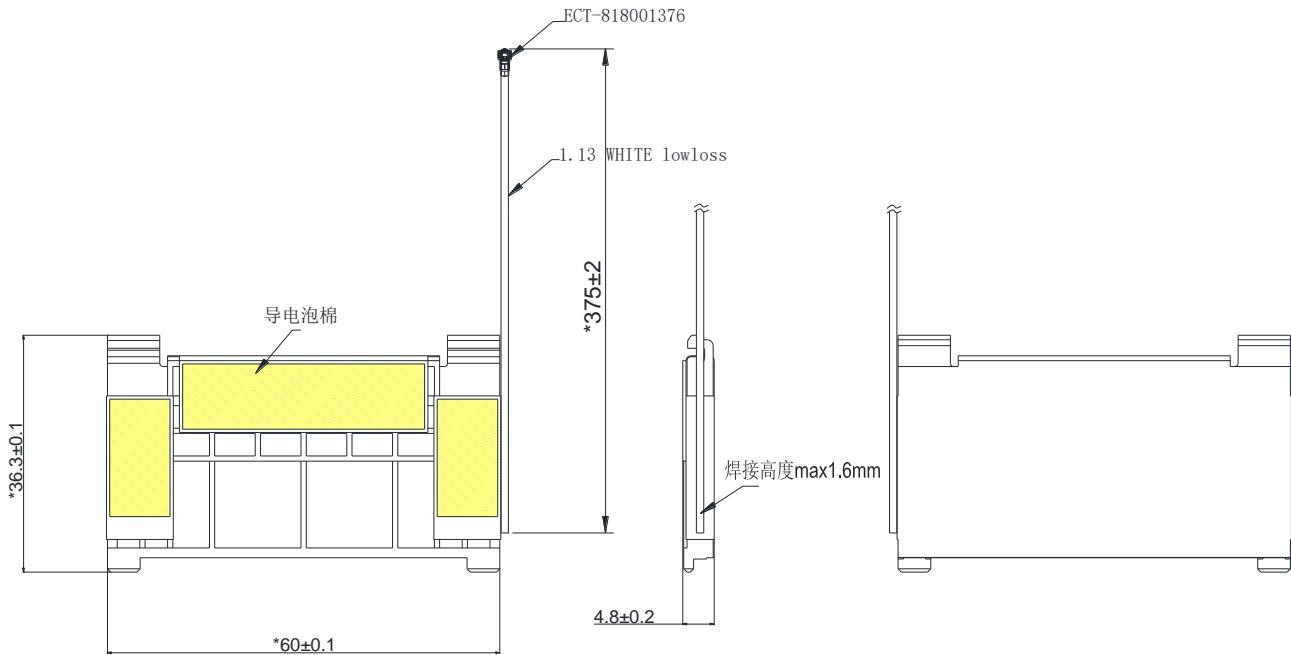
6525MHz



6. Antenna Dimensions:(unit:mm)

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标注尺寸为 FAI 尺寸, *号尺寸为 CPK 尺寸



7. UL File No:

ITEM	DESCRIPTION	SUPPLIER	UL File No
1	FPCB		
2	CABLE	HA0008	E318898

8. Assembly precautions:

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