

WA-P-LBLB-04-124 Specification

1. Explanation of part number :

WA P LBLB 04 124
(1) (2) (3) (4) (5)

(1) Product Type: Wireless Antenna 华勤料号: HQ26006001GH0

(2) Material: PCB

(3) Frequency : WiFi 2、5、6G

(4) Coaxial Cable Type : 04

(5) Suffix :124

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. Contact Information:

No.81, An-Tai 1st Road, Xi-Shan Economic Zone, Wu-Xi, Jiang-Su., China

Tel: +86-512-6571-9988

Fax: +86-512-6571-6988

<https://www.inpaqgp.com>

5. Electrical Specification :

Those specifications were specially defined for Acer NB8805T, and all characteristics were measured in the customer's machine. .

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DESIGNED BY: 秦灏	APPROVED BY: 陈尚仁		
TITLE: WA-P-LBLB-04-124 Specification		DOCUMENT NO.	PAGE REV. A0

5-1. Frequency Band:

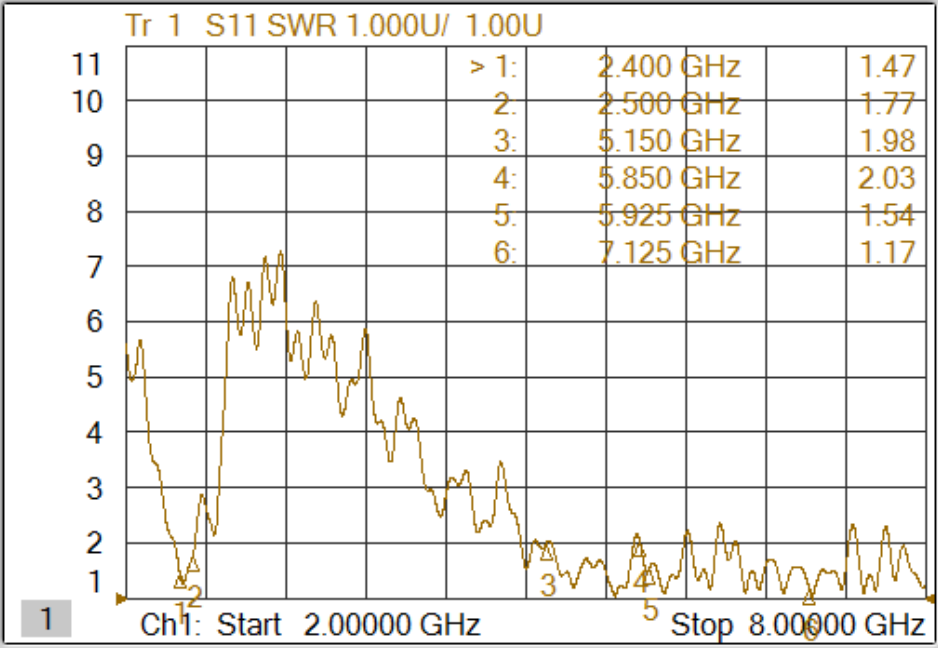
Frequency Band	GHz
WiFi	2、5、6G

5-2. Impedance

50 ohm nominal

5-3. Impedance

5-3.1 Main Antenna VSWR

Frequency Band	2400	2450	2500	5150	5470	5850	5925	6525	7125
Typical Value:	≤ 3.0	≤ 3.0	≤ 3.0	≤ 3.0	≤ 3.0	≤ 3.0	≤ 3.0	≤ 3.0	≤ 3.0
Measuring Method	1. A 50Ωcoaxial 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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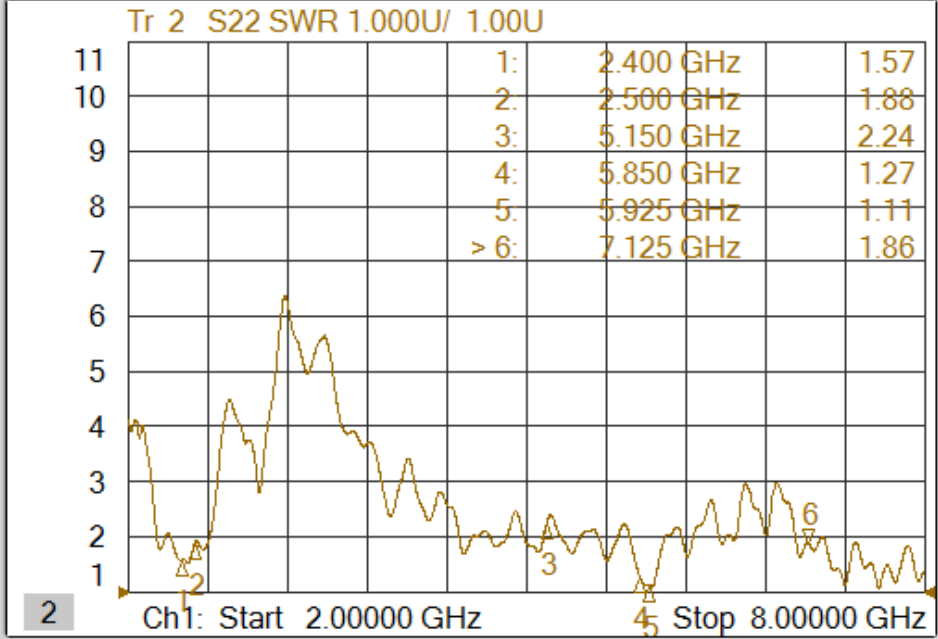
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A0



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5-3.2 Aux Antenna VSWR

Frequency Band	2400	2450	2500	5150	5470	5850	5925	6525	7125
Typical Value:	≤ 3.0	≤ 3.0	≤ 3.0	≤ 3.0	≤ 3.0	≤ 3.0	≤ 3.0	≤ 3.0	≤ 3.0
Measuring Method	3. A 50 Ω coaxial cable is connected to the pcb antenna. Then this cable is connected to a network analyzer to measure the VSWR. 4. Keeping this jig away from metal at least 20 cm.								
Picture									

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PAGE REV.
A0

5-4. Efficiency and Gain

5-4-1 Measuring equipment

Measuring instrument:

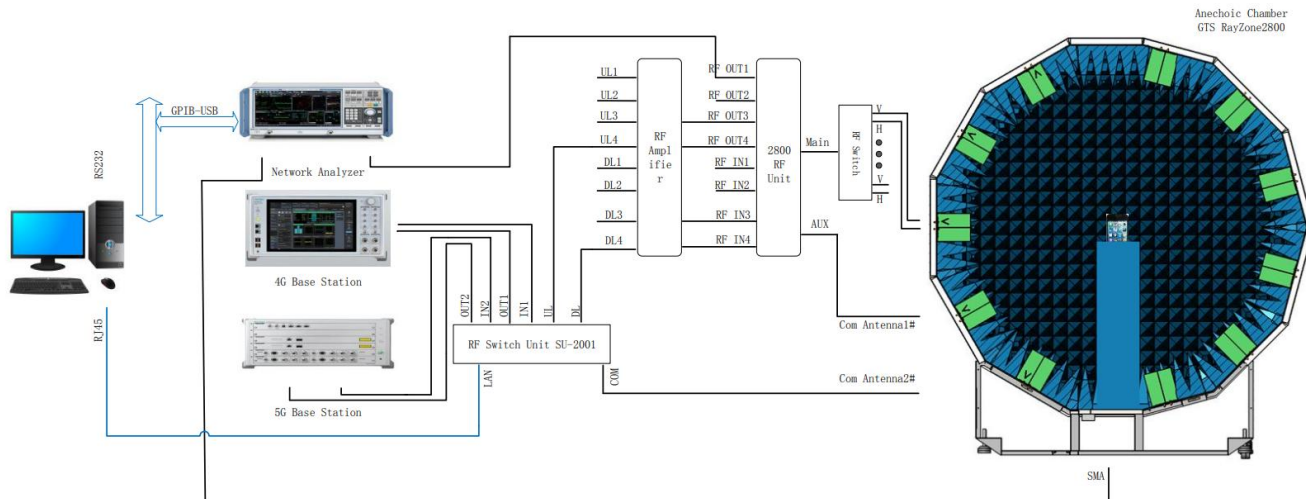
Microwave chamber, Network analyzer, and standard antenna.

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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5-4-2 Efficiency and Gain

Main Antenna

Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Peak Gain (dBi)
2400	-5.12	30.76	1.09
2450	-4.96	31.92	1.78
2500	-5.20	30.20	1.41
5150	-5.76	26.55	2.22
5250	-5.30	29.51	2.55
5350	-5.31	29.44	2.13
5470	-4.94	32.06	2.09
5600	-4.95	31.99	2.35
5725	-4.79	33.19	1.72
5785	-4.66	34.20	2.52
5800	-4.67	34.12	2.02
5850	-4.76	33.42	1.93
5925	-5.34	29.24	1.87
6025	-5.76	26.55	1.83
6125	-5.10	30.90	1.71
6225	-4.89	32.43	1.76
6325	-5.68	27.04	2.32
6425	-5.77	26.49	2.22
6525	-4.75	33.50	2.75
6625	-5.68	27.04	2.80
6725	-5.80	26.30	2.48
6825	-4.73	33.65	2.82
6925	-5.38	28.97	2.44
7025	-5.53	27.99	2.26
7125	-5.83	26.12	2.73

Frequency Band(MHz)	2400	2500	5150	5850	5925	7125
Efficiency(dB)	≥ -4.0	≥ -4.0	≥ -6.0	≥ -6.0	≥ -6.0	≥ -6.0
Peak Gain(dBi)	≤ 2.0	≤ 2.0	≤ 3.0	≤ 3.0	≤ 3.0	≤ 3.0

Aux Antenna

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A0

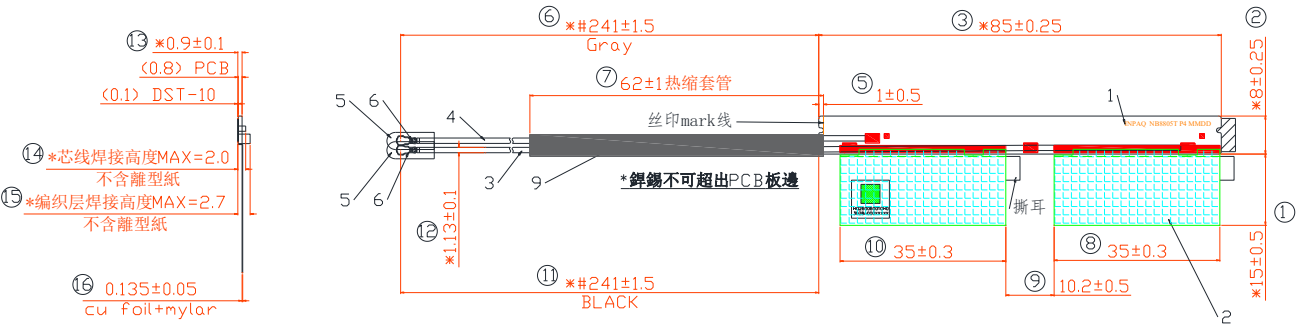
Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Peak Gain (dBi)
2400	-5.12	30.76	1.37
2450	-4.93	32.14	1.71
2500	-5.08	31.05	1.45
5150	-5.16	30.48	2.18
5250	-5.67	27.10	2.00
5350	-5.64	27.29	2.75
5470	-5.04	31.33	1.84
5600	-5.25	29.85	2.21
5725	-5.28	29.65	1.54
5785	-5.56	27.80	1.90
5800	-5.69	26.98	2.53
5850	-4.82	32.96	1.88
5925	-5.53	27.99	2.09
6025	-5.16	30.48	2.08
6125	-5.58	27.67	2.42
6225	-5.67	27.10	2.69
6325	-5.73	26.73	1.62
6425	-5.09	30.97	1.73
6525	-5.58	27.67	1.35
6625	-4.86	32.66	1.40
6725	-5.69	26.98	2.46
6825	-4.98	31.77	1.58
6925	-5.63	27.35	2.05
7025	-5.64	27.29	2.13
7125	-5.53	27.99	2.25

Frequency Band(MHz)	2400	2500	5150	5850	5925	7125
Efficiency(dB)	≥ -4.0	≥ -4.0	≥ -6.0	≥ -6.0	≥ -6.0	≥ -6.0
Peak Gain(dBi)	≤ 2.0	≤ 2.0	≤ 3.0	≤ 3.0	≤ 3.0	≤ 3.0

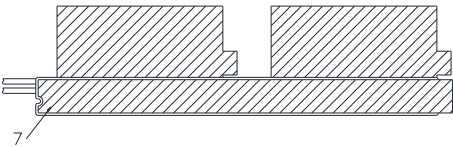
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6. Antenna Dimensions:(unit:mm)

标注尺寸为 FAI 尺寸，*号尺寸为重点 CPK 尺寸



9	Heat Shrink Tube	1	RSFR(CB);H02.0/1.0CB
8	Label	1	DST-10
7	Adhesive	2	MHF-B13L-N-01
6	Connector	2	MHF-B13L-N-01
5	Tube	2	
4	Cable	1	$\varnothing$ 1.13,Gray
3	Cable	1	$\varnothing$ 1.13,Black
2	Cu Foil+mylar+DY958	2	
1	PCB	1	FR4 T0.8,black
No.	NOMENCLATURE OR DESCRIPTION	Q'TY	MATERIAL



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