

3. Operating Condition:

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

4. Electrical Specification :

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

4-1. Frequency Band:

Frequency Band	MHz
Bluetooth 2.4-2.5G	2400-2500MHz

4-2. Impedance

50 ohm nominal

4-3. Matching circuit

None

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4-4. VSWR			
Frequency Band	2400	2500	
4-4-1.Typical Value:	≦ 5.0	≦ 5.0	
4-4-2.Measuring Method	connected to a	able is connected to t network analyzer to r away from metal at l	
4-4-3.Picture	1 Sant 2 GHz	M3 2 M3 2	400000 CHr 3.005 U 400000 CHr 1.77 U 500000 CHr 3.070 U 50000 CHr 3.070 U
	FIED TOLERANCES ON		
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4-5. Efficiency and Gain

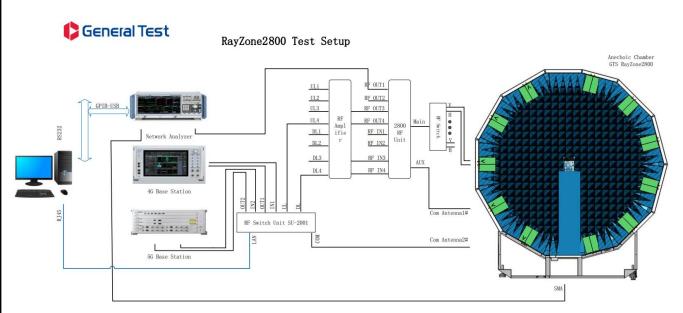
4-5.1 Measuring equipment

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 $2.95M \times 3M \times 3M$.



The microware 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 \sim 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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4-5.2 Efficiency and Gain

Bluetooth	2.4-2.5G
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Frequency	Efficiency	Efficiency	Peakgain	
(MHz)	(dBI)	(%)	(dB)	
2400	-9.8	10.6	-5.5	
2410	-9.4	11.5	-5.1	
2420	-9.2	11.9	-5.1	
2430	-8.7	13.4	-4.9	
2440	-8.1	15.5	-4.1	
2450	-7.6	17.3	-3.7	
2460	-7.7	16.8	-4.4	
2470	-8.1	15.4	-4.7	
2480	-8.1	15.6	-4.3	
2490	-8.6	13.7	-4.6	
2500	-9.7	10.8	-5.5	

Frequency Band(MHz)	2400	2500
Efficiency(dB)	≥- 10. 5	≥- 10. 5
Peak Gain(dBi)	≤3.0	≤3.0

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