

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

| UNLESS OTHE X=± ANGLES=± | ER SPECIFIE X.X=± | D TOLERANCES ON : X.XX=± HOLEDIA=± | B | | 0., LT | D. |
|--------------------------------------|----------------------|--|--|---|------------|-----|
| SCALE : | | UNIT:mm | THIS DRAWING | THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY O | | PAQ |
| DRAWN BY: 引 | 长涛 | CHECKED BY: 张涛 | TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR THE BASIS FOR THE MANUFACTURE OR SALE OF APPARA DEVICES WITHOUT PERMISSION | | OR USED AS | |
| DESIGNED BY | ':单动力 | APPROVED BY:李志强 | | | | |
| TITLE: WAG-F-LA-00-209 Specification | | DOCUMENT | EN6000103880 | PAGE | REV | |
| | | NO. | EN3000193880 | P0 | | |
| | | | PAGE 1 | | OF | 5 |



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.

| UNLESS OTHER SPEC X=± X.X= ANGLES=± | CIFIED TOLERANCES ON : =± X.XX=± HOLEDIA=± | G | INPAQ TECHNOLOGY C | O., LTD. | |
|---|--|---------------|---|-------------|--|
| SCALE : | UNIT:mm | THIS DRAWING | S AND SPECIFICATIONS ARE THE PROPER | TY OF INPAQ | |
| DRAWN BY: 张涛 | CHECKED BY: 张涛 | TECHNOLOGY | TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AN THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS O | | |
| DESIGNED BY:单动力 | APPROVED BY:李志强 | DEVICES WITHO | OUT PERMISSION | | |
| TITLE: WAG-E-I A-00-200 Specification | | DOCUMENT | ENS000103880 | PAGE REV. | |
| IIILL. WAG-I-LA- | be-209 Specification | NO. | EN3000193880 | P0 | |
| | | PAGE 3 | | OE 5 | |

4-5.2 Efficiency and Gain

| FS R | | | | |
|-----------|------------|------------|----------|--|
| Frequency | Efficiency | Efficiency | Peakgain | |
| (MHz) | (dB) | (%) | (dBI) | |
| 2400 | -9.3 | 11.9 | -6.0 | |
| 2410 | -8.7 | 13.4 | -6.2 | |
| 2420 | -8.4 | 14.6 | -5.7 | |
| 2430 | -7.9 | 16.0 | -5.1 | |
| 2440 | -7.7 | 16.9 | -4.2 | |
| 2450 | -7.6 | 17.5 | -3.7 | |
| 2460 | -8.0 | 15.9 | -4.0 | |
| 2470 | -8.7 | 13.5 | -4.4 | |
| 2480 | -9.7 | 10.8 | -4.3 | |
| 2490 | -9.9 | 10.2 | -4.8 | |
| 2500 | -10.1 | 9.8 | -6.5 | |

| Frequency Band(MHz) | 2400 | 2500 |
|------------------------|-----------------|--------|
| Efficiency(dB) | ≥- 10. 5 | ≥-10.5 |
| Peak Gain(dBi) | ≤3.0 | ≤3.0 |

| UNLESS OT | THER SPECIFIE | D TOLERANCES ON : | | | | | |
|--------------------------------------|---------------|-------------------|--------------|--|----------|------|--|
| X=± | X.X=± | X.XX=± | | INPAQ TECHNOLOGY C |)., LT | ۲D. | |
| ANGLES= | ± | HOLEDIA=± | | | | | |
| SCALE : | | UNIT:mm | THIS DRAWING | S AND SPECIFICATIONS ARE THE PROPER | TY OF IN | IPAQ | |
| DRAWN BY: 张涛 | | CHECKED BY: 张涛 | TECHNOLOGY | TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USI THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATU | | | |
| DESIGNED | BY:单动力 | APPROVED BY:李志强 | DEVICES WITH | OUT PERMISSION | | | |
| TITLE: WAG-F-LA-00-209 Specification | | DOCUMENT | ENS000102880 | PAGE | REV | | |
| | | NO. | EN3000193880 | P0 | | | |
| | | | PAGE 4 | | OF | 5 | |

| Bluetooth | 2.4-2.5G |
|------------|----------|
| Diaotootii | 2.12.00 |

