

WAG-F-LB-00-119 Specification

1. Explanation of part number:

WAG F LB 00 119
(1) (2) (3) (4) (5)

(1) Product Type: Wireless Antenna

(2) Material: FPCB

(3) Frequency : 2400~2500MHz; 5150~5850MHz

(4) Coaxial Cable Type: No cable

(5) Suffix :119

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 GH6572 model, and all characteristics were measured in the customer's machine.

4-1 Test Environment

量测仪器: 微波暗室, 网络分析仪, 标准天线。

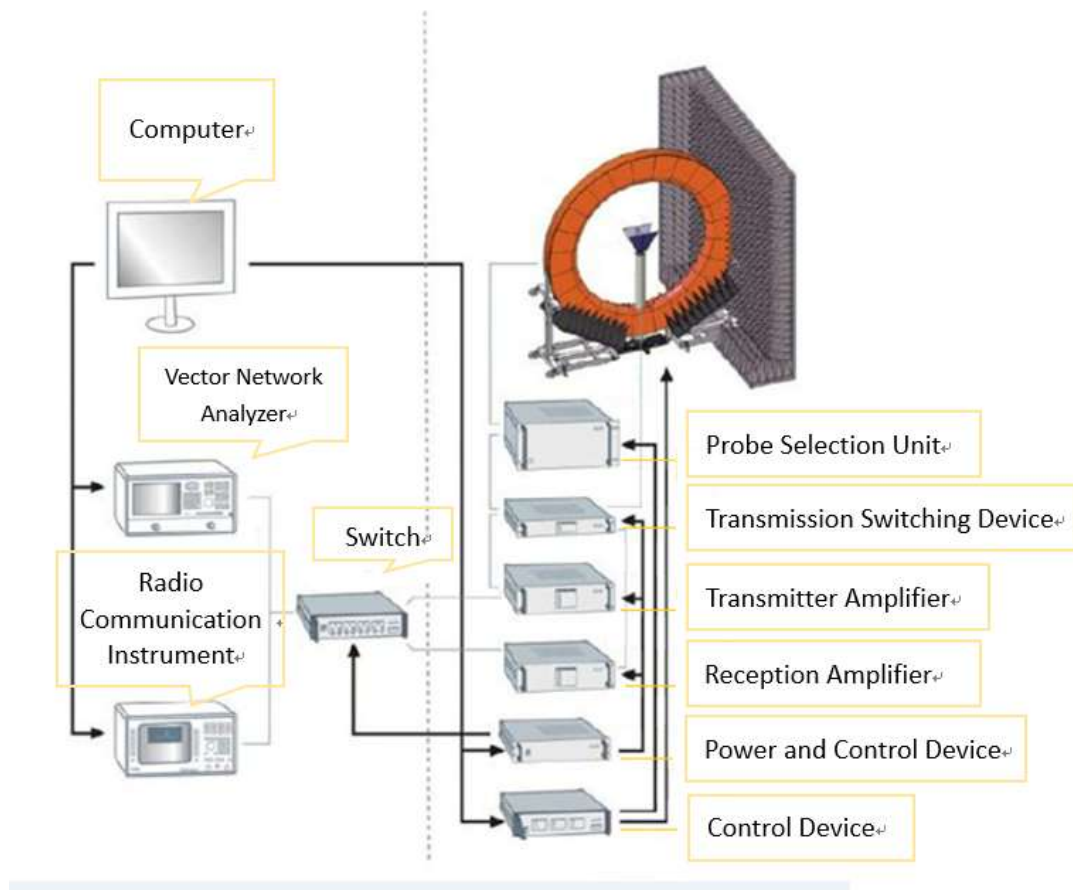
这是本公司设置在苏州的微波暗室, 本微波暗室是属于一套近场量测系统,暗室的大小为 4M*4M*4M 。

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 4M * 4M * 4M.

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上图微波暗室是一种独特的多探头技术，旨在降低整个测量系统的测量时间。测量系统用多探头阵列替代了以往的单探头来扫描被测天线的被测面，单个探头具有正交极化幅度和相位测量能力，同时具有很宽的频率范围，对应的多探头阵列通过电子开关快速切换，极大的提高了测量效率。

探头型号：HD-400 (400MHz~6.0GHz)。因为系统测量探头的宽带频率和正交极化功能减少了系统所需配备的探头数量；探头的小尺寸减小了探头间耦合的同时，使在探头间插入其他频带范围的探头成为可能，单一系统可支持的频率范围更宽。

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: HD-400(400MHz~6.0GHz) . 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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4-2 VSWR

Frequency Band(MHz)	2400~2500	5150~5850
VSWR	<2	<2



4-3. Impedance

50 ohm nominal

4-4. Efficiency& Gain

Frequency (GHz)	Peak Gain (dBi)	Average Gain (dBi)	Efficiency (%)
2.4	2.20	-3.40	45.66
2.45	2.62	-3.37	46.05
2.5	2.98	-3.11	48.81
5.15	4.68	-3.20	47.90
5.45	3.82	-3.91	40.60
5.85	5.56	-2.68	53.92

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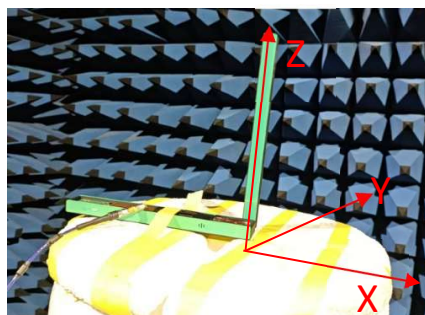
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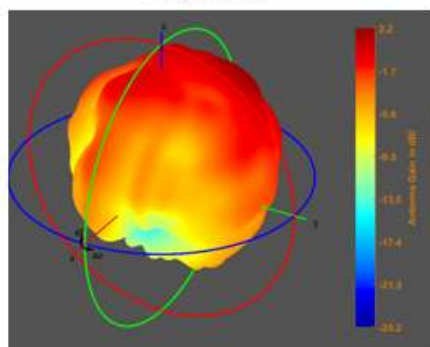
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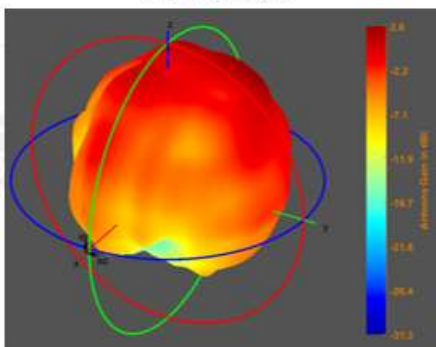
4-5. Antenna 3D Radiation Gain Pattern



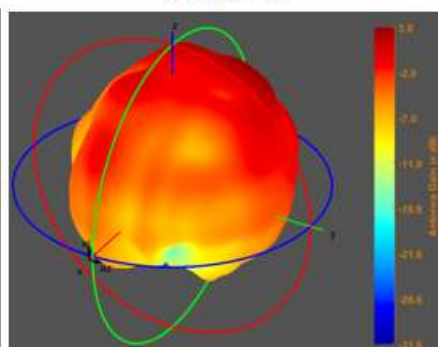
2.4GHz



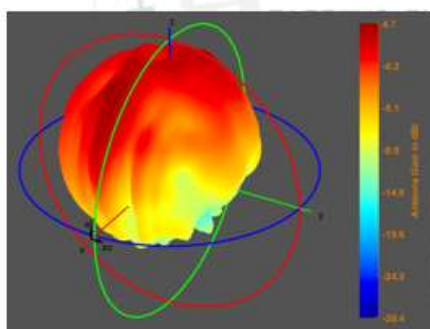
2.45GHz



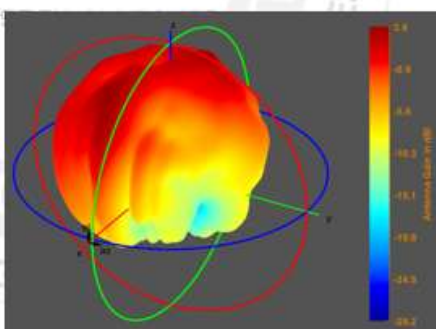
2.5GHz



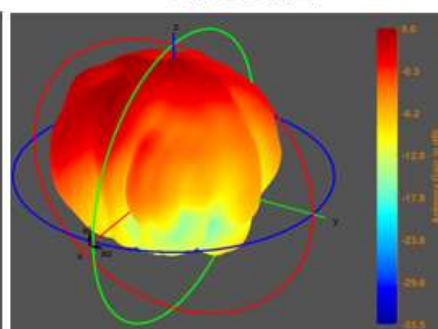
5.15GHz



5.45GHz



5.85GHz



5. Mechanical Specification:

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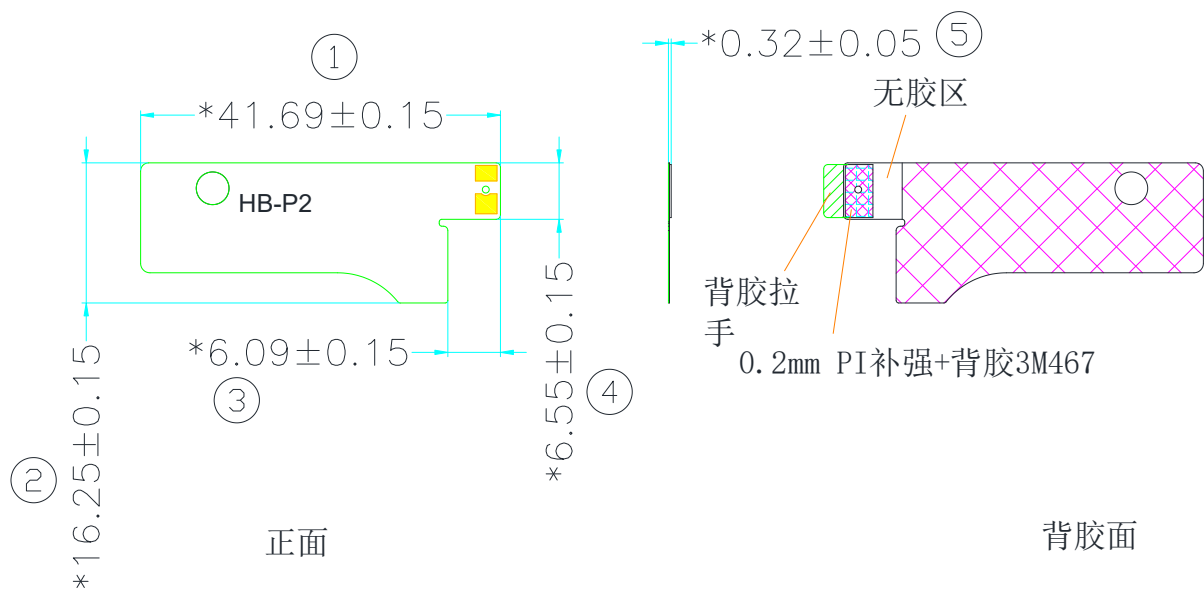
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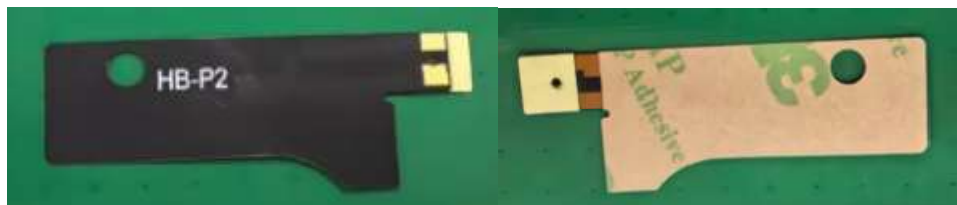
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6.Photos:



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