

品名: <u>WAG-F-LAG0-00-069 工规</u>

History List

版本 REV.	修訂者 EDITOR	修訂頁次 PAGE	修訂內容 ITEMS OF CHANGE	申請日期 DATE	生效日期 VALID DATE	ECN 编号 ECN NO
A0	Eason	ALL	正式发行	2024/05/08	2024/05/08	N/A

WAG-F-LAG0-00-069 Specification

1. Explanation of part number :

$$\frac{\text{WAG}}{\text{(1)}} - \frac{\text{F}}{\text{(2)}} - \frac{\text{LAG0}}{\text{(3)}} - \frac{00}{\text{(4)}} - \frac{069}{\text{(5)}}$$

- (1) Product Type: Wireless Antenna
- (2) Material: FPC
- (3) Frequency: 1575.42/2400~2500 MHz
- (4) Coaxial Cable Type: 00
- (5) Suffix: 069

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

4-1. Frequency Band:

Frequency Band	MHz
WBG	1575.42/2400~2500 MHz

4-2. Impedance

50 hm nominal

4-3. Matching circuit

None

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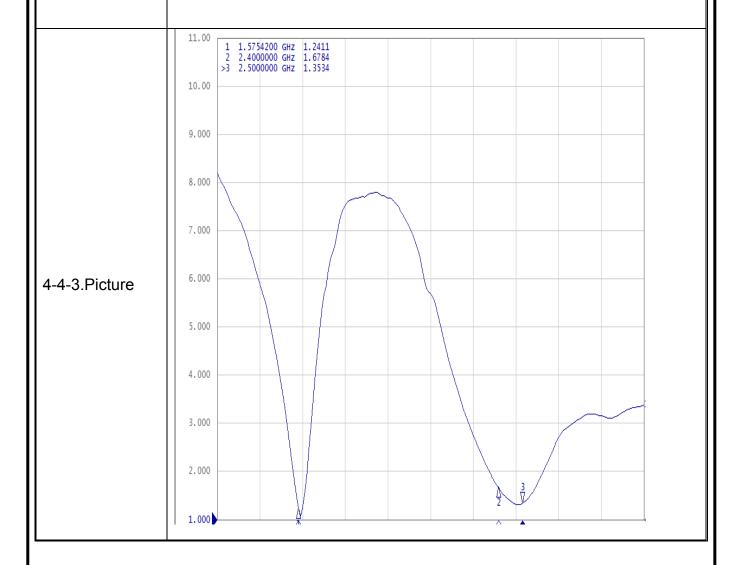
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4-4. VSWR

4-4-1.Typical Value: ≤ 3.0 ≤ 3.0 ≤ 3.0	ИHz
	6.0

4-4-2.Measuring Method

- 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.



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4-5. Efficiency and Gain

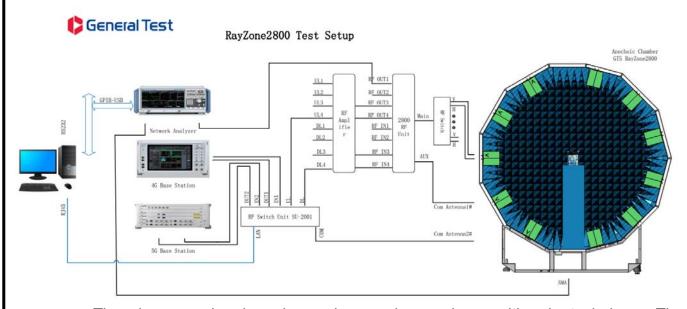
4-5.1 Measuring equipment

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 * 3M * 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($400MHz\sim7.5GHz$). 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

Fre	Gain(dBi)	Effi(db)	Effi(%)
1560	0. 59	-5. 87	25. 89
1570	0.40	-6. 05	24. 83
1580	0.42	-5.87	25. 86
1590	0.31	-5. 77	26. 51
1600	0. 15	-5.80	26. 28
1610	0.35	-5. 68	27. 06
1620	0.66	-5. 49	28. 25
2400	2.67	-4. 48	35. 65
2420	2.49	-4.65	34. 27
2440	2.80	-4. 55	35. 09
2460	2. 27	-4. 73	33. 62
2480	1.86	-5. 02	31. 46
2500	2.24	-4.94	32. 04

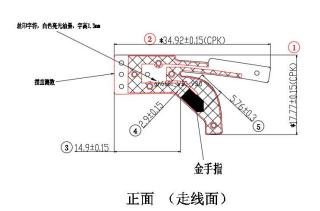
4-5.3 OTA And Data 3D

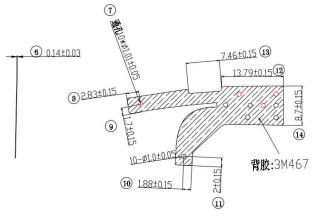
	.WIFI-2.4G			
			1	12.71
	6Mbps 54Mbps	TRP	7	13.08
902 44h			13	11.58
802.11b		lbps TIS	1	-79.08
			7	-81.09
			13	-79.68
GPS		CNO	TIS	UHIS
		38.7	-151.6	-147.8

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5.Antenna Dimensions:(unit:mm)





反面 (背胶面)

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