

WA-F-LE-01-030 Specification

1. Explanation of part number :

WA - F - LE - 01 - 030
(1) (2) (3) (4) (5)

(1) Product Type: Wireless Antenna

(2) Material: FPC+ Holder+ Cable

(3) Frequency : 2400-2500MHz, 5150-5850MHz, 5925-7125MHZ

(4) Coaxial Cable Type : 01

(5) Suffix : 030

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 **SD17**, and all characteristics were measured in the customer's machine. .

4-1. Frequency Band:

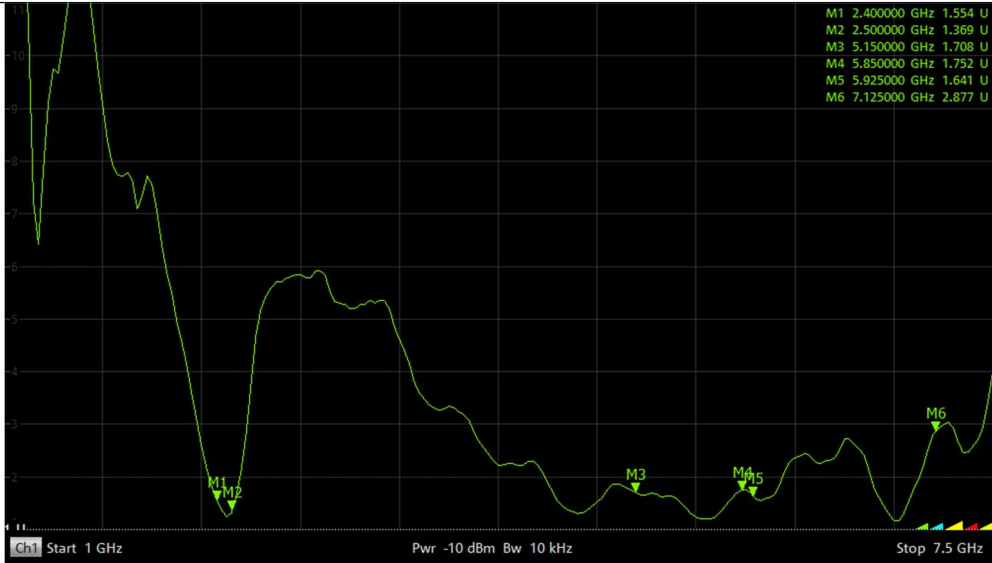
Frequency Band	MHz
WiFi	2400~2500MHz, 5150~5850MHz, 5925~7125MHz

UNLESS OTHER SPECIFIED TOLERANCES ON : X = ± X.X = ± X.XX = ± ANGLES = ± HOLEDIA = ±		 INPAQ TECHNOLOGY CO., LTD.	
SCALE :	UNIT : mm	THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF INPAQ TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION	
DRAWN BY: 刘威红	CHECKED BY: 张涛		
DESIGNED BY: 单动力	APPROVED BY : 余超		
TITLE: WA-F-LE-01-030 Specification		DOCUMENT NO.	XXX
			PAGE REV. P0

4-2. Impedance

50 ohm nominal

4-3. S11

Frequency Band	2400	2500	5150	5850	5925	7125
Typical Value:	≤ 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						

UNLESS OTHER SPECIFIED TOLERANCES ON :

X = ± X.X = ± X.XX = ±

ANGLES = ± HOLEDIA = ±

SCALE : UNIT : mm

DRAWN BY: 刘威红 CHECKED BY: 张涛

DESIGNED BY: 单动力 APPROVED BY: 余超

TITLE: WA-F-LE-01-030 Specification



INPAQ TECHNOLOGY CO., LTD.

THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF INPAQ TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION

DOCUMENT
NO.

XXX

PAGE REV.
P0

4-4. Efficiency and Gain

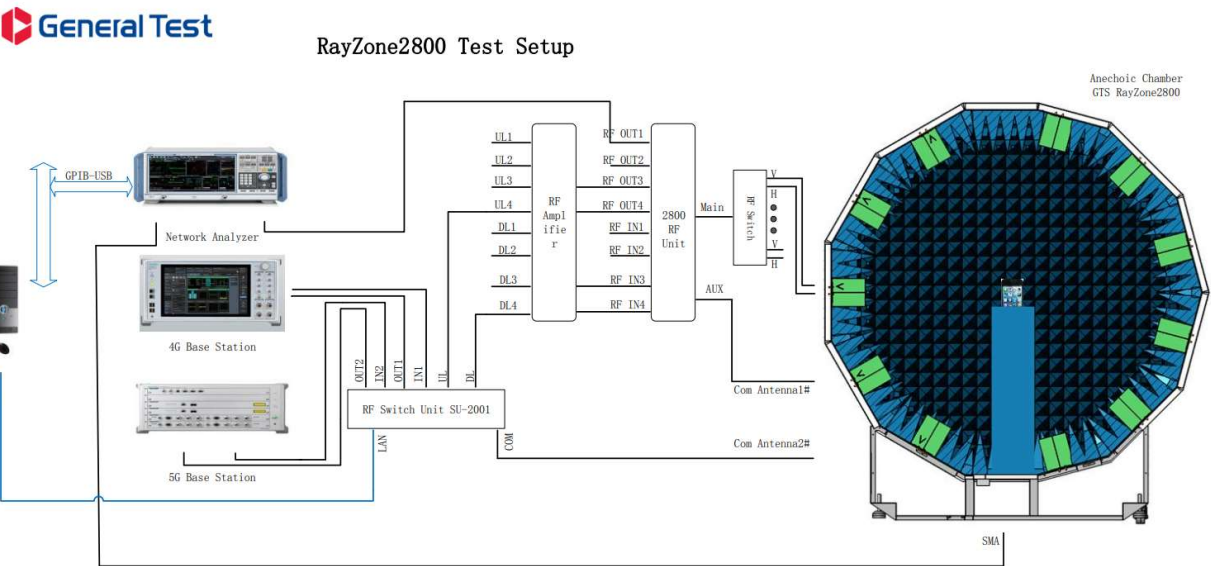
4-4-1 Measuring equipment

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.



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.

UNLESS OTHER SPECIFIED TOLERANCES ON :		 INPAQ TECHNOLOGY CO., LTD.
X = ±	X.X = ± X.XX = ±	
ANGLES = ±	HOLEDIA = ±	THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF INPAQ TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION
SCALE :	UNIT : mm	
DRAWN BY: 刘威红	CHECKED BY: 张涛	
DESIGNED BY: 单动力	APPROVED BY : 余超	
TITLE: WA-F-LE-01-030 Specification		DOCUMENT NO. XXX
		PAGE REV. P0

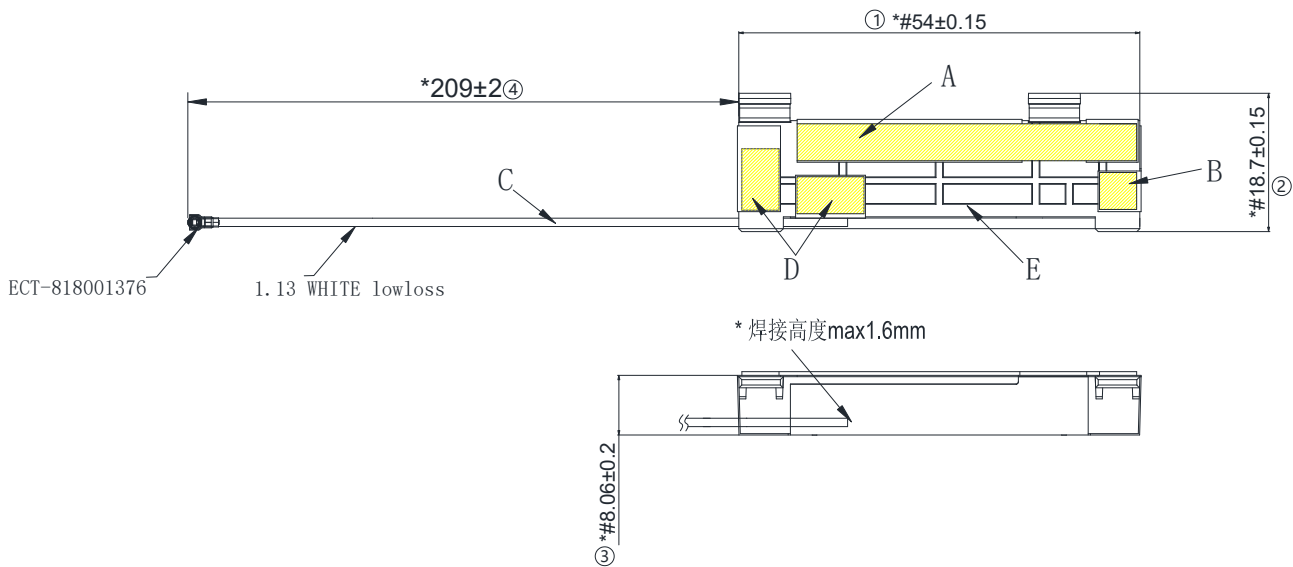
4-4-2 Efficiency and Gain

Freq(MHz)	Efficiency_ dB	Efficiency_ Pcent	Gain
2400	-3.9	41.1	2.2
2450	-3.4	46.2	2.1
2500	-3.7	42.5	4.0
AVG	-3.6	43.3	2.8
5150	-5.3	29.8	0.6
5250	-4.9	32.2	1.7
5350	-4.5	35.4	1.0
5470	-4.5	35.2	1.5
5600	-4.2	38.0	1.9
5725	-5.4	29.0	1.1
5785	-4.2	38.4	1.4
5800	-4.0	40.2	1.9
5850	-3.8	41.4	2.0

6. Antenna Dimensions:(unit: mm)

*号尺寸为出货检验尺寸

UNLESS OTHER SPECIFIED TOLERANCES ON :		 INPAQ TECHNOLOGY CO., LTD.
X = ±	X.X = ± X.XX = ±	
ANGLES = ±		HOLEDIA = ±
SCALE :	UNIT : mm	THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF INPAQ TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION
DRAWN BY: 刘威红	CHECKED BY: 张涛	
DESIGNED BY: 单动力	APPROVED BY : 余超	
TITLE: WA-F-LE-01-030 Specification		DOCUMENT NO. XXX
		PAGE REV. P0



F	FPC	FPC FOR WA-F-LE-01-030	1	pcs
E	塑胶件	Holder WA-F-LE-01-024	1	pcs
D	导电泡棉	TAP导电泡棉 9*5*0.5	2	pcs
C	线材	CNC ECT+1.13 WH LL 315mm	1	pcs
B	导电泡棉	TAP导电泡棉 5*5*0.5	1	pcs
A	导电泡棉	TAP导电泡棉 45.5*5*0.5	1	pcs
项目	描述	描述	用量	单位



7. Assembly precautions:



UNLESS OTHER SPECIFIED TOLERANCES ON :

X = $\pm$ X.X = $\pm$ X.XX = $\pm$

ANGLES = $\pm$ HOLEDIA = $\pm$

SCALE : UNIT : mm

DRAWN BY: 刘威红 CHECKED BY: 张涛

DESIGNED BY: 单动力 APPROVED BY: 余超

TITLE: WA-F-LE-01-030 Specification



INPAQ TECHNOLOGY CO., LTD.

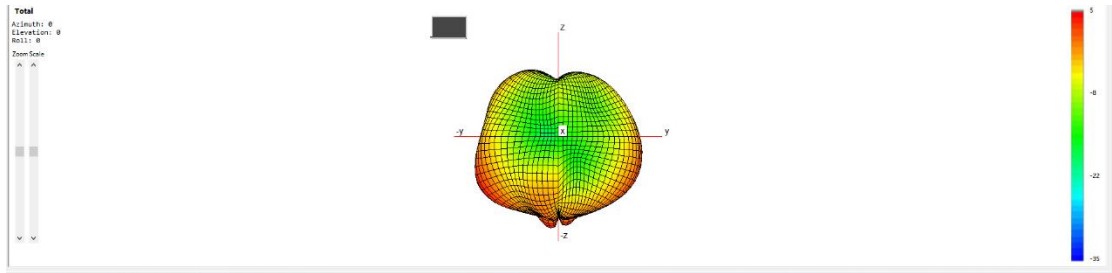
THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF INPAQ TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION

DOCUMENT
NO.

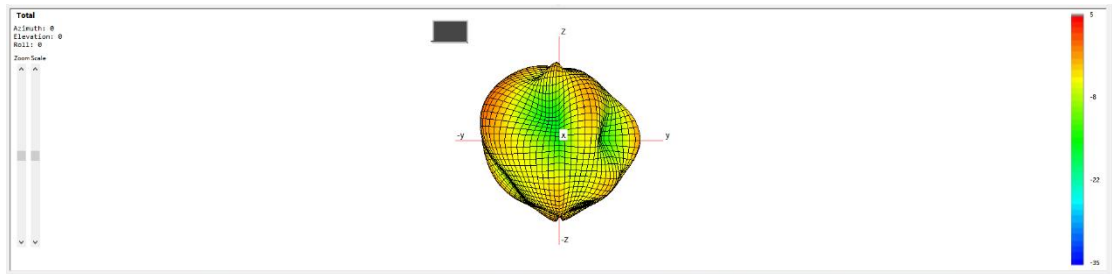
XXX

PAGE REV.
P0

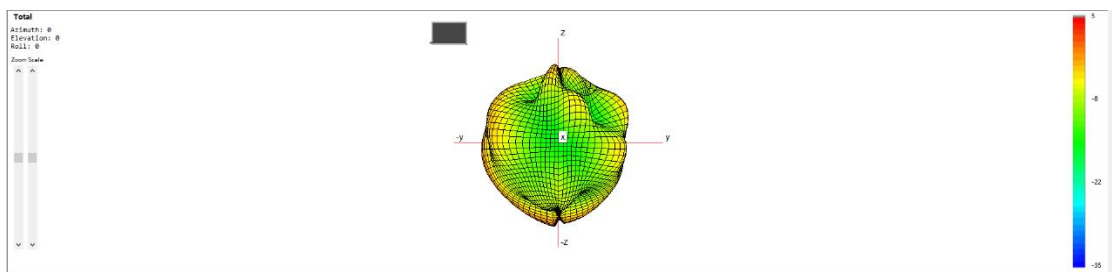
Simple Antenna Pattern Plot 2450



5150



5470



5850

