



Antenna Specifications

SHENZHEN HENGXIANGTONG ANTENNA TECHNOLOGY CO., LTD.

Antenna Specifications

CUSTOMER		钜弘	
CS P/N		W906	
HX P/N		<u>A58-025</u>	
Checked by(RF)	Checked by(ME)	Checked by(QA)	Approval led by
<i>Licjapng</i>	<i>chen Hongbin</i>	<i>Li xiaogui</i>	<i>Tian wen li</i>
Customer Approval			



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1. General Description

This document provides the antenna specifications on electric, mechanic and reliability. The testing conditions and related pictures are also included.

1.1 Print Acceptance

Samples and Antenna Specifications are to be sent to customer. When they are approved, the approval form should be completed, signed, and sent back to Hengxiangtong before further mass production batches can be delivered.

1.2 Coordinate System

The coordinate system for the phone is defined as follows:

- Origin in center of gravity.
- Positive X axis is perpendicular to, and directed from, front plane.
- Positive Y axis is perpendicular to, and directed from, right side plane (as seen from front).
- Positive Z axis is perpendicular to, and directed from, top plane.

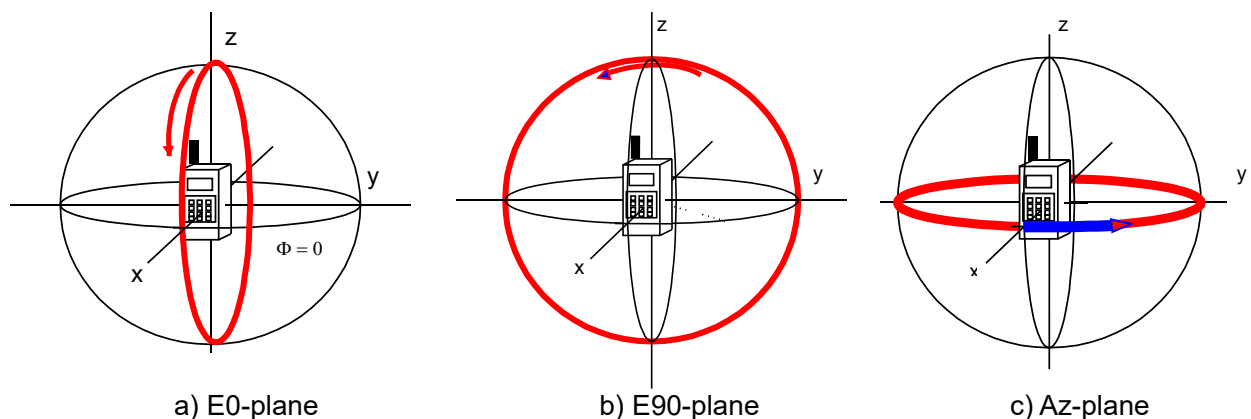


Figure 1-1 The coordinate system for the phone



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2. Specifications

This report mainly provides the testing conditions of various electric and structural performance parameters for cell phone antenna ---- W906. Figure 2-1 shows the antenna designed by HX & The fixturing of W906



Figure 2-1 The antenna designed by HX & The fixturing of W906



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2.1 Frequency Band

Band	Frequency(MHz)
2.4G	2400-2500

2.2 Impedance

2.2.1 Nominal

Nominal Impedance(including matching circuit) : 50 ohms

2.2.2 Matching Circuit

The matching circuit is as Figure 2-2.

无

Figure 2-2: Matching circuit

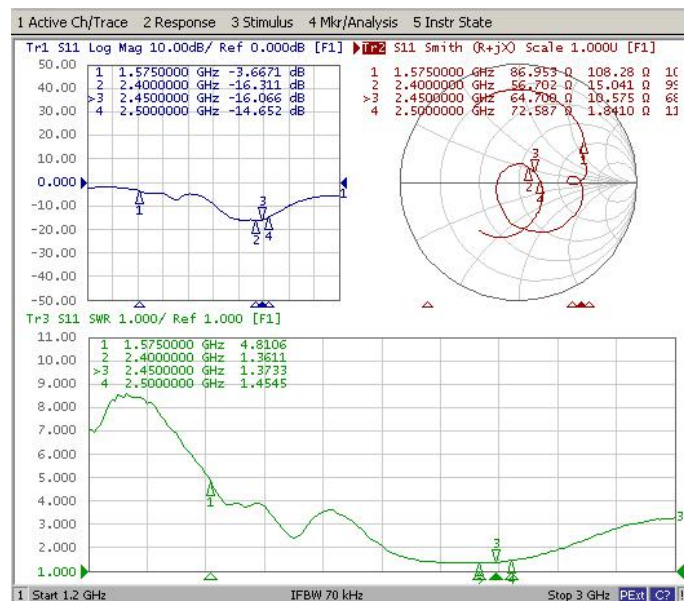
2.3 Passive Measurements

2.3.1 VSWR & Gain Specifications

VSWR		GAIN	
Freq. Band	SPEC	Freq. Band	SPEC
2400-2500MHz	≤ 2.0	2400-2500	$\geq 0\text{dBi}$

2.3.2 S11 of the Typical Sample

Freq (MHz)	2400	2450	2500
RL	-16.31	-16.06	-14.65
VSWR	1.36	1.37	1.45



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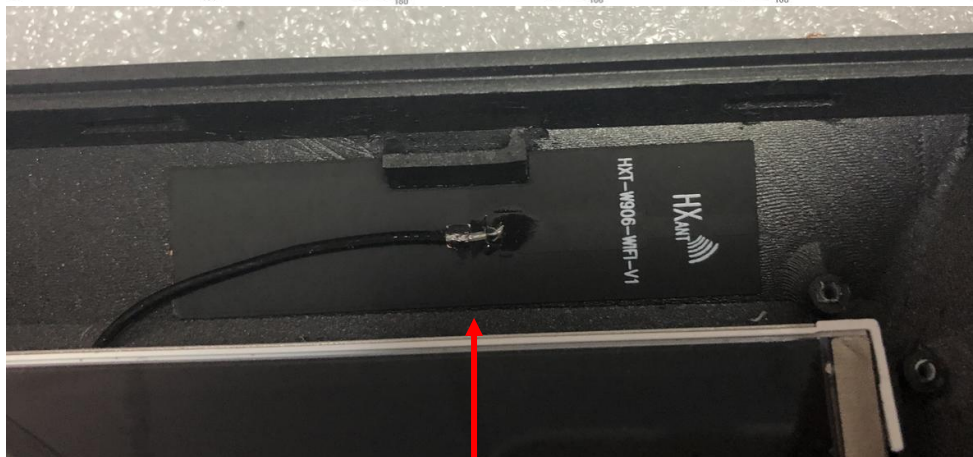
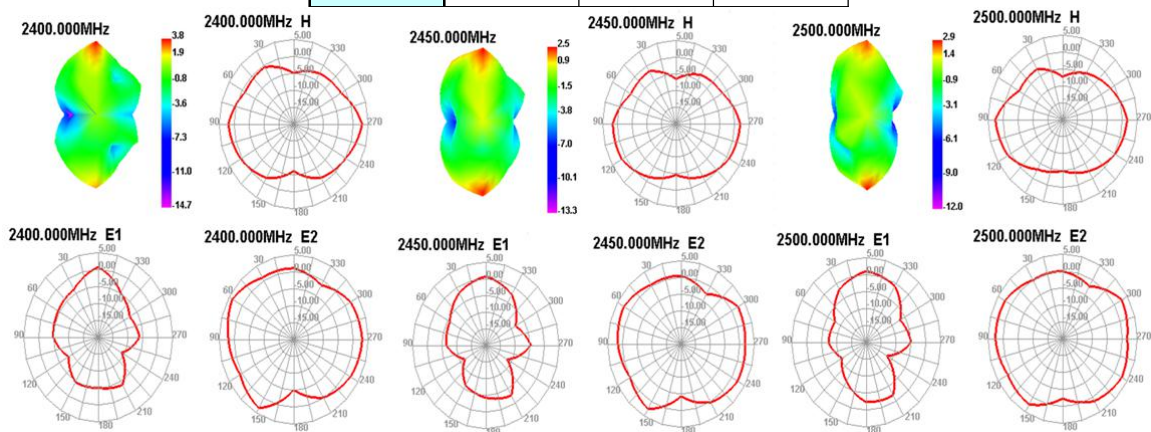


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2.3.3 Gain Effi. & Ratiation Pattern of the Typical Sample

Passive Test For 2.4-2.5G			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	76.3	-1.17	3.77
2410	73.98	-1.31	3.4
2420	71.73	-1.44	3.33
2430	70.64	-1.51	2.92
2440	71.63	-1.45	2.72
2450	73.1	-1.36	2.48
2460	72.4	-1.4	2.76
2470	72.41	-1.4	3.13
2480	75.63	-1.21	3.28
2490	74.93	-1.25	3.09
2500	72.54	-1.39	2.87



如图所示，WIFI 天线贴在此区域

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3. Mechanical Properties

3.1 Specifications Drawings

一代端子, 端子不分方向

尺寸

Hand-drawn note: 一代端子, 端子不分方向

技术要求

1. PCB是否有色差, 露铜, 表面脏污等不良;
2. 不能有锡尖, 假焊, 漏焊等不良;
3. 符合ROHS标准.

②	同轴线	A58-025-1	CU
①	FPC	A58-025-F	PI+CU
序号	名称	编号	材质

深圳市恒翔通天线技术有限公司

深圳市宝安区西乡街道新桥社区新桥工业区4栋3楼C

Tel: (0755) 27657751 Fax: (0755) 27599500 Postal Code: 518126

产品名称	PRODUCT NAME	组装图	客户
产品编号	ITEM NO.	A58-025-W906	数量
材料	MATERIAL	见附表	数量
数量	QTY.	01	数量

0~10	±0.05	○	0.02
10~18	±0.06	◎	0.03
18~30	±0.08	⊥	0.02
30~40	±0.09	∇	0.04
40~	±0.10	Angle	±0.5°

绘图	审核	日期
DRAWN BY	CHECKED BY	2020.04-10
批准	批准	
APPROVED BY	APPROVED BY	

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4. Environmental Characteristic

Test Item	Test description
1. Low Temperature	Temp.: -20 °C Time: 24 hours
2. High Temperature	Temp.: 80°C Time: 24 hours
3. Salt Fog	5±0.1% Nad salt fog PH Value: 6.5-7.2 Temp: 35±1°C Time:24 hours