

Antenna Specifications

CUSTOMER		优爱康	
CS P/N		W68	
HX P/N		A16-086-W68	
Checked by(RF)	Checked by(ME)	Checked by(QA)	Approval led by
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 HX 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.

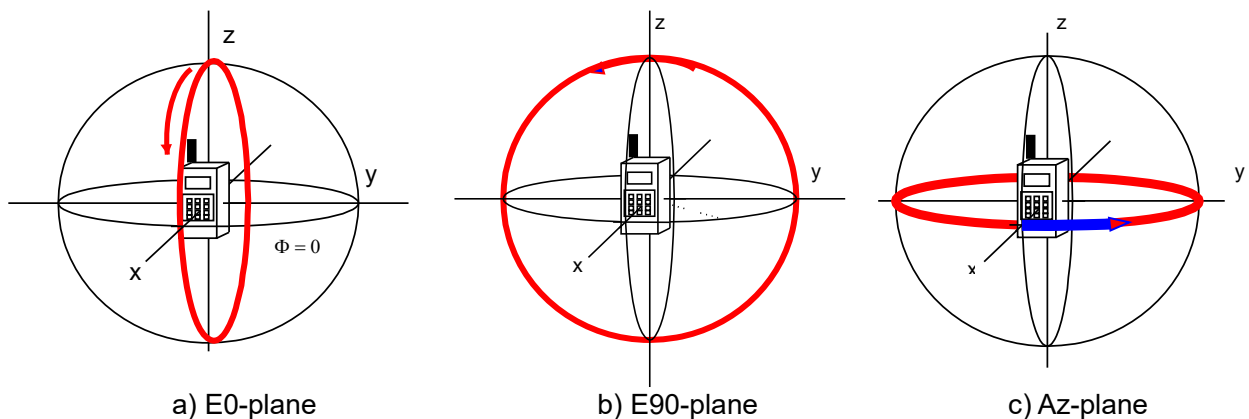


Figure 1-1 The coordinate system for the phone

2. Specifications

This report mainly provides the testing conditions of various electric and structural performance parameters for cell phone antenna ---W68 Figure 2-1 shows the antenna designed by HX & The fixturing of W68



Figure 2-1 The antenna designed by HX & The fixturing of W68

HXT Antenna Specifications

SHENZHEN HENGXIANGTONG ANTENNA TECHNOLOGY CO., LTD.

2.1 Frequency Band

	Frequency(MHz)
BT	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.

匹配无更改

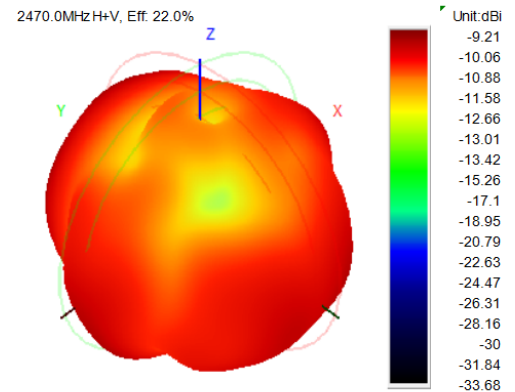
Figure 2-2: Matching circuit

2.3 Active Measurement

2.3.1 OTA data of LTE antenna

BT			
(MHz)	Effi	GAIN	Effi
	(dB)	(dBi)	(%)
2400	-13.52	-9.36	4.49
2410	-13.51	-9.72	4.23
2420	-13.78	-9.32	4.33
2430	-13.96	-9.63	3.99
2440	-13.85	-9.89	4.55
2450	-13.91	-9.79	4.3
2460	-13.99	-9.86	4.07
2470	-13.87	-9.21	4.42
2480	-13.91	-9.49	4.23
2490	-13.78	-9.51	4.55
2500	-13.8	-9.33	4.28

3D radiation pattern diagram



3. Environmental treatment of the whole machine

无环境处理

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4. Specifications Drawings

技术要求

1. FPC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	A16-072-T	CU
①	FPC	A16-072-F	PI+CU
序号	名称	编号	材质

深圳市飞讯无线技术有限公司

产品名称	PRODUCT NAME	客户	CUSTOMER'S
产品编号	ITEM NO.	A16-086	打版
			Material
		数量	QTY.
		01	见附表
			批准
			APPROVED BY

公差	Tolerance	第三角	Third Angle
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°

Unit: mm

Technical drawing of an antenna assembly. The drawing shows a side view of the antenna with various dimensions indicated. The dimensions are: 1, 2, 1, 1, 40, 40, 16, 46, 5, 37, and 0.81. The drawing includes a label 'HXT-A16-086-T1-11'.

5. 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