

Antenna Specifications

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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

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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.

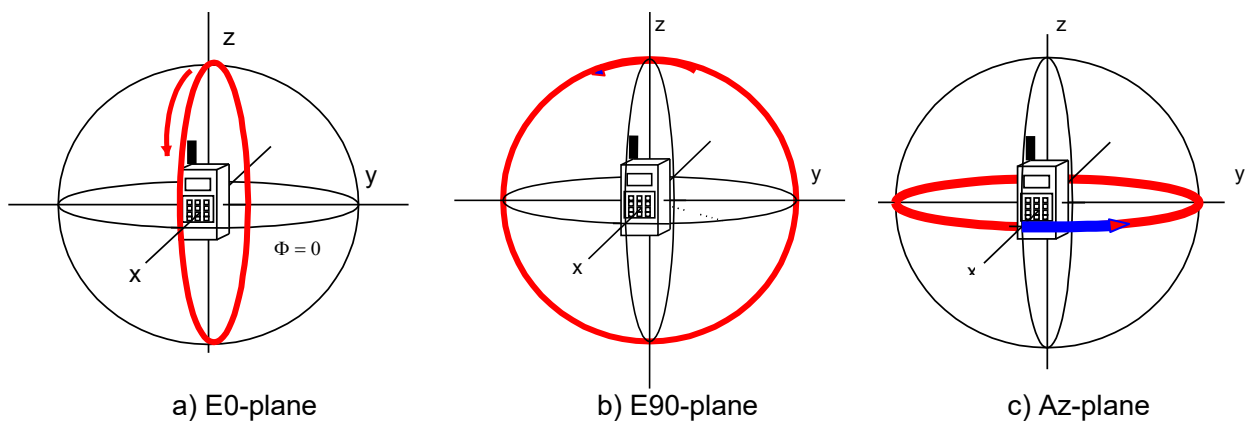


Figure 1-1 The coordinate system for the phone

2. Specifications

This report mainly provides the testing conditions of various electric and structural performance parameters for cell phone antenna ---AK82. Figure 2-1 shows the antenna designed by HX & The fixturing of AK82.



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Figure 2-1 The antenna designed by HX & The fixturing of AK82

2.1 Frequency Band

	Frequency(MHz)
BT 天线	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.

匹配无变更

Figure 2-2: Matching circuit

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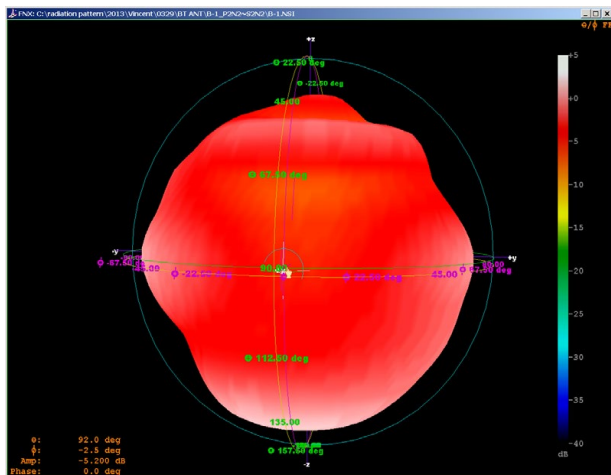
2.3 Active Measurement

2.3.1 OTA data of BT antenna

BT			
(MHz)	Effi	Effi	Effi
	(dB)	(dBi)	(%)
2400	-13.91	-10.1	3.86
2410	-14.03	-10.59	3.95
2420	-13.91	-10.05	4.06
2430	-14.06	-10.06	3.93
2440	-13.89	-9.81	4.08
2450	-13.82	-9.49	4.15
2460	-13.7	-9.57	4.27
2470	-13.64	-9.78	4.33
2480	-13.58	-7.13	4.38
2490	-13.7	-9.42	4.27
2500	-13.54	-9.58	4.42

3. Environmental treatment of the whole machine

无环境处理



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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