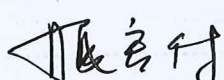




Antenna Specifications

SHENZHEN HENGXIANGTONG ANTENNA TECHNOLOGY CO., LTD.

Antenna Specifications

CUSTOMER		星辰	
CS P/N		TB 摇杆	
HX P/N		<u>A72-003-60-0.81 同轴线</u>	
Checked by(RF)	Checked by(ME)	Checked by(QA)	Approval led by
Customer Approval		 2022.12.26	

星辰料号: E-RF1822003-F

Add: 3/F, Building 4, XinJianXing Industrial Park, Yangguang Industrial Zone, Xili Town, Nanshan District, ShenZhen, P.R.China,
Tel. +86-755-27657751 Fax +86-755-27599500



Antenna Specifications

SHENZHEN HENGXIANGTONG ANTENNA TECHNOLOGY CO., LTD.

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张金
2022.12.26



Antenna Specifications

SHENZHEN HENGXIANGTONG ANTENNA TECHNOLOGY CO., LTD.

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.

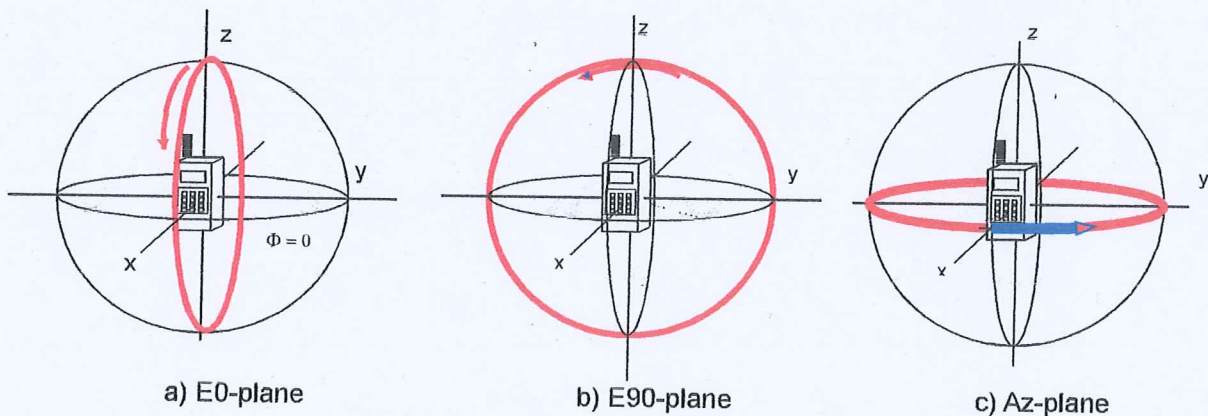


Figure 1-1 The coordinate system for the phone

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Handwritten signature and date: 2021-12-26

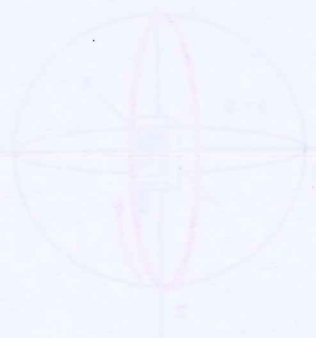


Antenna Specifications

SHENZHEN HENGXIANGTONG ANTENNA TECHNOLOGY CO., LTD.

2. Specifications

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



2022-12-26

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



Antenna Specifications

SHENZHEN HENGXIANGTONG ANTENNA TECHNOLOGY CO., LTD.

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	$\geq 2\text{dBi}$

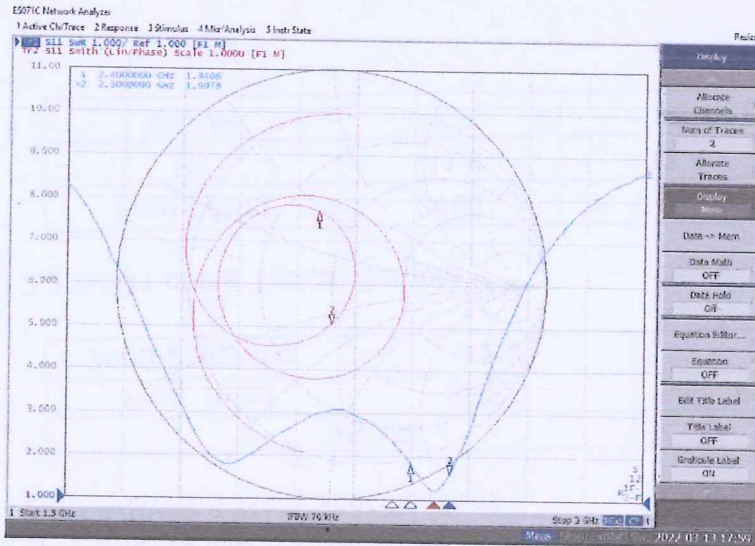
2.3.2 S11 of the Typical Sample

Freq (MHz)	2400	2450	2500
RL	-11.9	-13.4	-10.8
VSWR	1.7	1.3	1.8

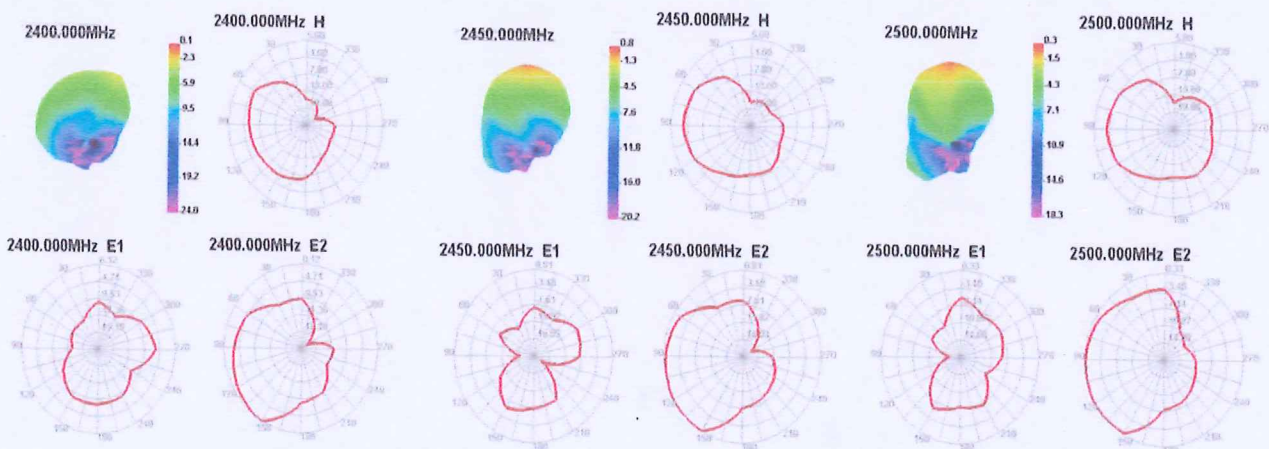
2022.12.26

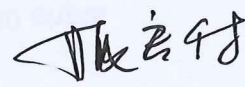
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2.3.3 Gain Effi. & Ratiation Pattern of the Typical Sample



Passive Test For 2.4-2.5G		
Freq (MHz)	Effi (%)	Gain (dBi)
2400	45.77	2.14
2410	42.21	2.33
2420	43.78	2.38
2430	44.88	2.38
2440	45.55	2.23
2450	47.16	2.81
2460	47.2	2.74
2470	48.4	2.7
2480	47.69	2.47
2490	48.98	2.52
2500	48.77	2.33




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Antenna Specifications

SHENZHEN HENGXIANGTONG ANTENNA TECHNOLOGY CO., LTD.

3. Mechanical Properties

3.1 Specifications Drawi

②	同轴线	A72-003-T-60	CU
①	FPC	A72-003-F-V11	PI+CU
序号	名称	编号	材质

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.

深圳市恒祥通天线技术有限公司
Tel: (0755) 27657751 Fax: (0755) 27599500 Portal Code: 513124

产品名称: 同轴电缆
产品编号: A72-003-60
物料号: 0.81同轴电缆
客户: 见附表
数量: 01

第三角

0~10	±0.10	○	0.02
10~18	±0.15	◎	0.03
18~30	±0.20	⊥	0.02
30~40	±0.30	∇	0.04
40~	±0.50	Angle	±0.5°

2代端子, 端口朝下

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Antenna Specifications

SHENZHEN HENGXIANGTONG ANTENNA TECHNOLOGY CO., LTD.

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

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