

Antenna Specifications

CUSTOMER		飞傲	
CS P/N		M27	
HX P/N		A23-020-M27	
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.

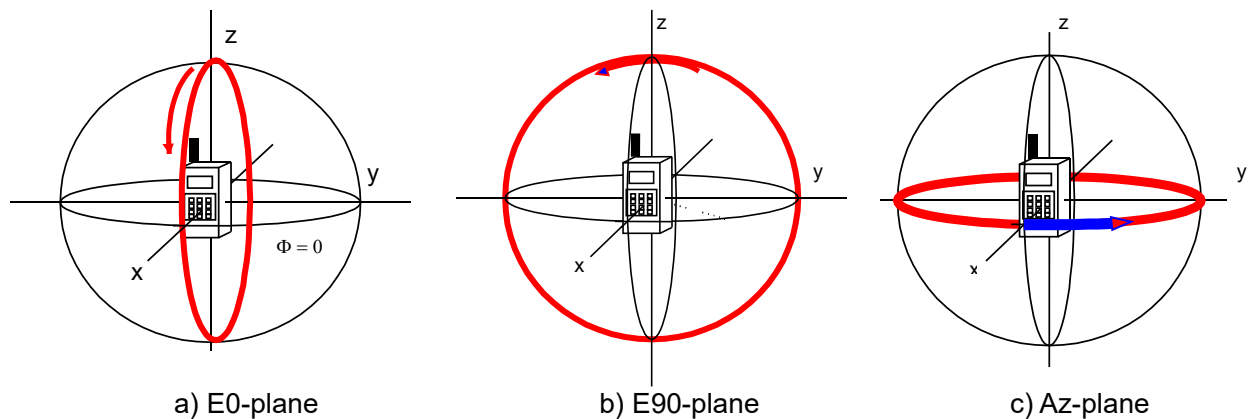


Figure 1-1 The coordinate system for the phone

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2. Specifications

This report mainly provides the testing conditions of various electric and structural performance parameters for cell phone antenna ----M27 Figure 2-1 shows the antenna designed by HX & The fixturing of M27

Figure 2-1 The antenna designed by HX & The fixturing of M27

2.1 Antenna frequency band and switching logic

网络模式	频段
WIFI	2.4G /5G

2.2 Impedance

2.2.1 Nominal

Nominal Impedance(including matching circuit) : 50 ohms

2.2.2 Matching Circuit

WiFi antenna

无

HXT Antenna Specifications

SHENZHEN HENGXIANGTONG ANTENNA TECHNOLOGY CO., LTD.

2.2.3 OTA data of GPS/WIFI antenna

WIFI (亮)						
机器编号		调试机器		OTA		
		POWRE	SENSITMITY	亮屏		
测试带宽	channel	TRP	TIS	TRP	TIS	
2.4G	11b : 11Mbps	1	13.7	-89	9.18	-80.56
		7	13.7	-89	9.32	-84.41
		13	13.8	-89	9.33	-84.82
5G	11a : 54Mbps	36	15.4	-76	11.86	-71.1
		149	15.4	-77	11.01	-70.86
		165	15.6	-77	9.78	-69.2

信道带宽	2.4GHz	☒ 20MHz ☒ 40MHz	
	5.1GHz	☒ 20MHz ☒ 40MHz ☒ 80MHz ☐ 160MHz	
	5.8GHz	☒ 20MHz ☒ 40MHz ☒ 80MHz	
天线增益值	2.4GHz	天线 1	-0.08 dBi
		天线 2	___dBi
		天线 3	___dBi
		天线 4	___dBi
	5.1GHz	天线 1	4.17 dBi
		天线 2	___dBi
		天线 3	___dBi
		天线 4	___dBi

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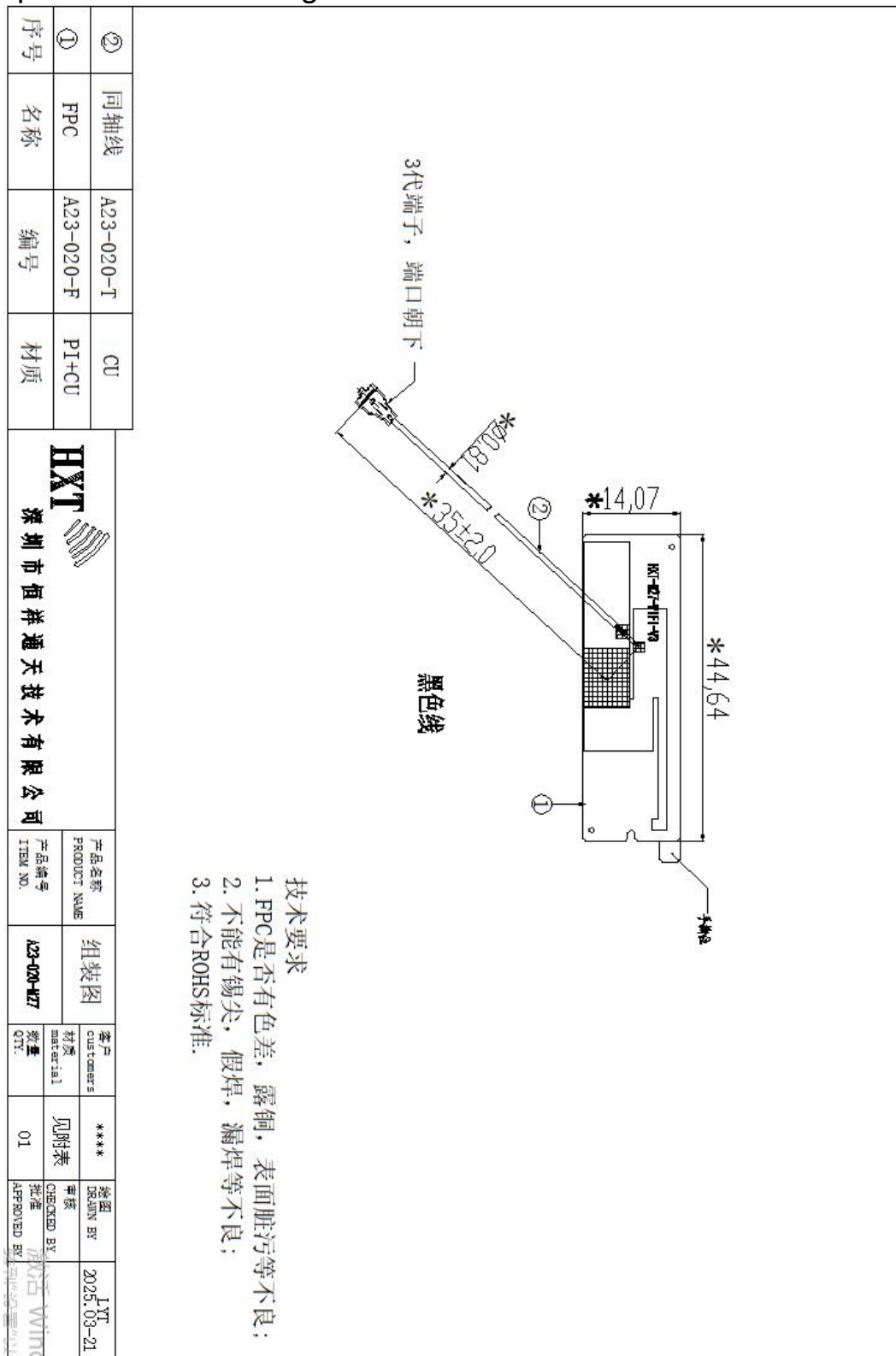
3. Environmental treatment of the whole machine

地馈点贴导电海绵与金属边框接地 金属边框需要做镭雕(导电海绵与
天线露铜区域大小差不多海绵要是大了驻波会变)



4. Mechanical Properties

4.1 Specifications Drawings



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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