

Antenna Specifications

CUSTOMER		星辰互动	
CS P/N		308A	
HX P/N		<u>A72-004-F-308A-V4</u>	
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.

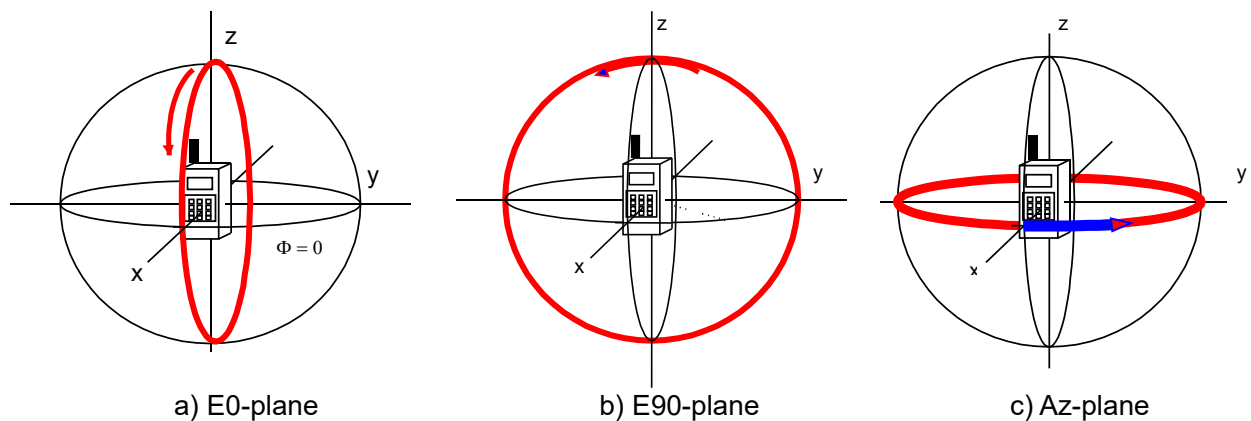


Figure 1-1 The coordinate system for the phone



2. Specifications

This report mainly provides the testing conditions of various electric and structural performance parameters for cell phone antenna ---308A Figure 2-1 shows the antenna designed by HX & The fixturing of 308A



Figure 2-1 The antenna designed by HX & The fixturing of 308A



Antenna Specifications

SHENZHEN HENGXIANGTONG ANTENNA TECHNOLOGY CO., LTD.

2.1 Frequency Band

Band	Frequency(MHz)
BT	2400-2480

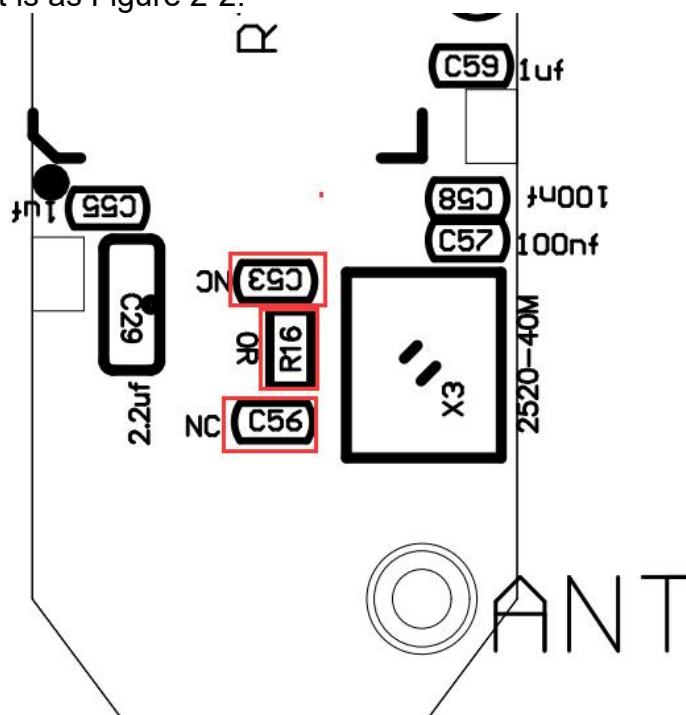
2.2 Impedance

2.2.1 Nominal

Nominal Impedance(including matching circuit) : 50 ohms

2.2.2 Matching Circuit

The matching circuit is as Figure 2-2.

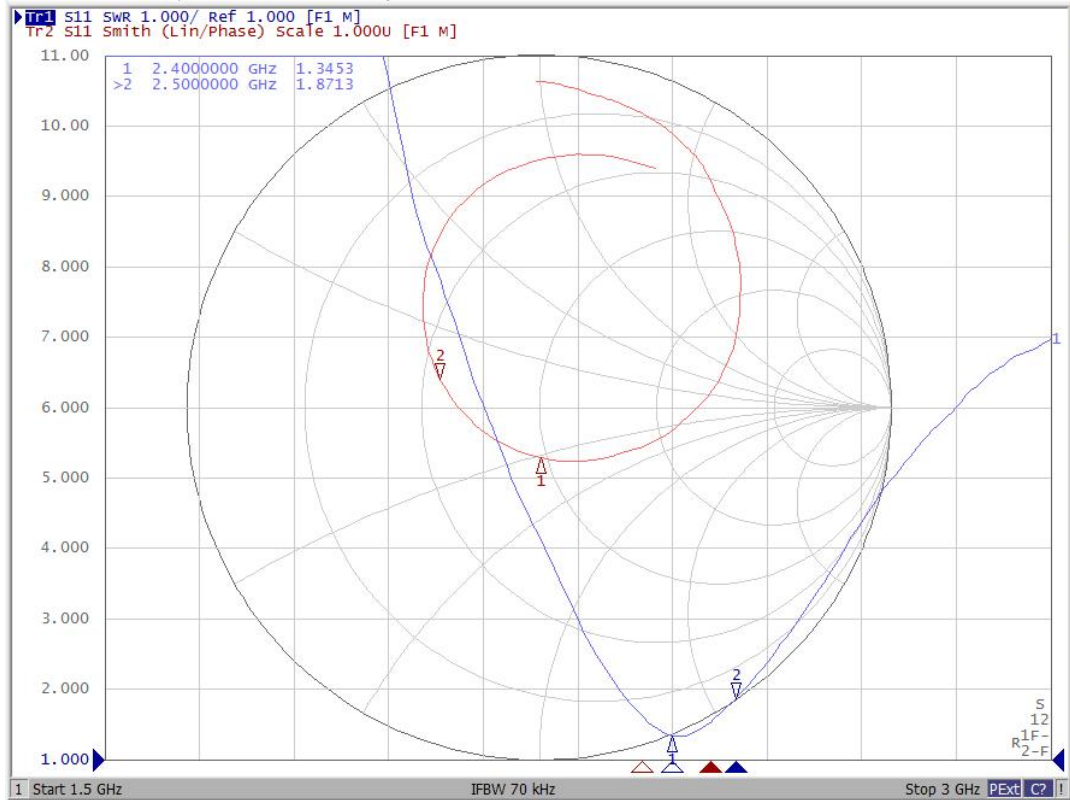


天线匹配电路 (monopole)	
位号	值
C56	1.5nH
R16	0 Ω
C53	NC

Figure 2-2: Matching circuit

2.3 Passive Measurements

2.3.1 S11 of the Typical Sample

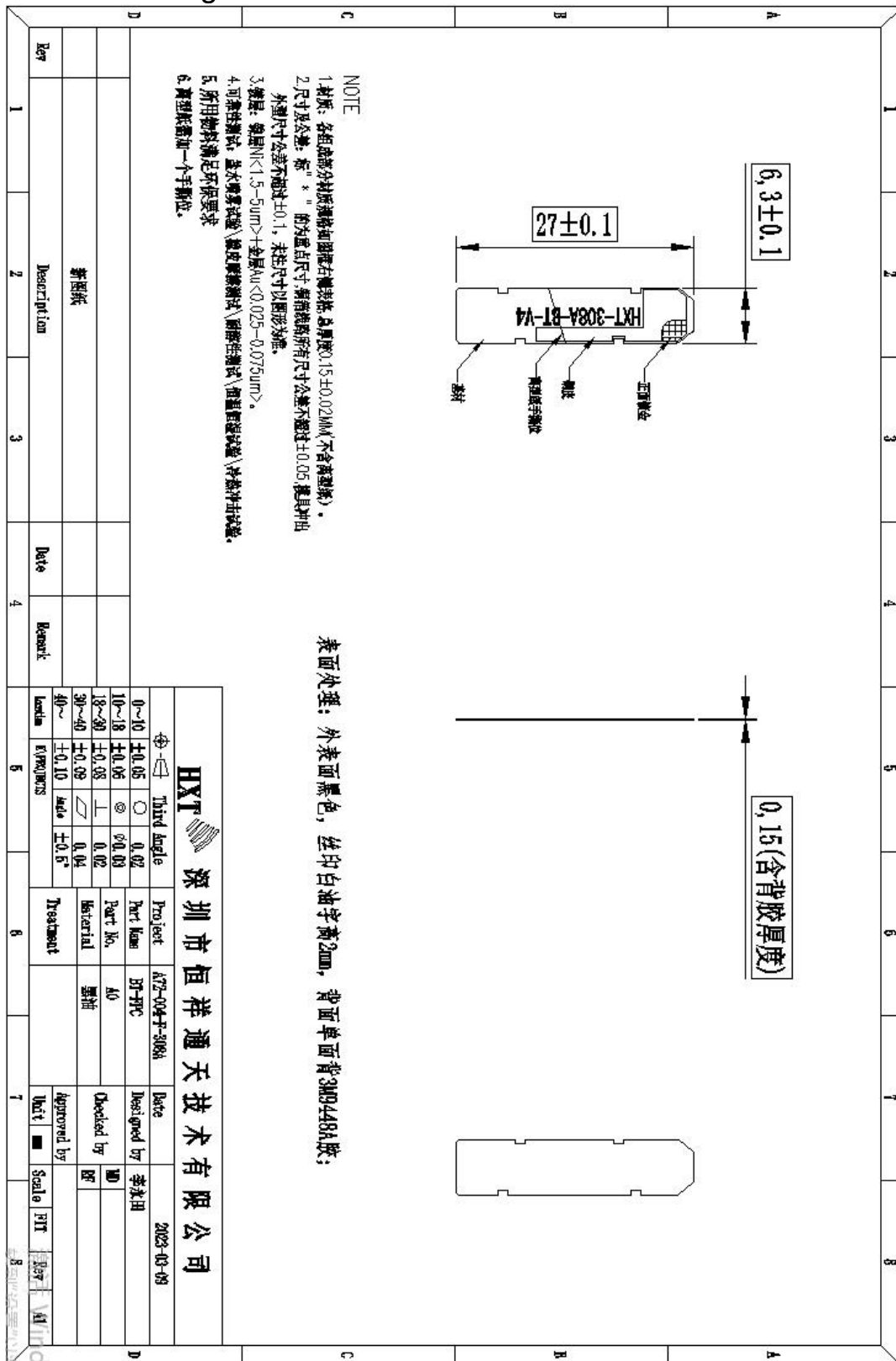


2.3.2 Efficiency Test Data

monopole 单极天线			
(MHz)	Effi	Effi	Effi
	(dB)	(dBi)	(%)
2400	-5.24	-1.29	29.92
2410	-5.27	-1.31	29.7
2420	-5.23	-1.2	29.99
2430	-5.06	-1.08	31.2
2440	-5.08	-1.03	31.07
2450	-4.84	-0.83	32.84
2460	-4.88	-0.79	32.48
2470	-4.93	-0.97	32.17
2480	-4.90	-0.87	32.39
2490	-4.90	-0.97	32.39
2500	-4.93	-1.11	32.1

3 Mechanical Properties

Specifications Drawings



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