SPECIFICATION

APPLICATION FOR APPROVAL

PART NAME	:	RVI FPC ANTENNA
PART NO	:	ANTFP1-CC0370B5
DATE	:	2023/06/16

Release : Full release

Customer Approval	
Program Manager	R & D director
Supplier Approval	
Program Manager	R & D director
Jingqiang Hao	GaoHe Sun

NTS

REVISION

REV.NO.	DATE	DESCRIPTION
A	2023/06/16	APPROVAL

0. DEFINITIONS

dBi	Decibel relative isotropic antenna
Tx	Transmit frequency
Rx	Receive frequency
VSWR	Voltage Standing Wave Ratio
GSM	Global Service for Mobile communication
DCS	Digital Communication System
PCS	Personal Communication System
CDMA	Code Division Multiple Access
WCDMA	Wideband Code Division Multiple Access
PHS	Personal Handly-phone System
SAR	Specific Absorption Rate
PCB	Printed Circuit Board
TBD	To Be Defined
P	Parallel connection
S	Series connection

1. ELECTRICAL SPECIFICATIONS

1-1 FREQUENCY BAND

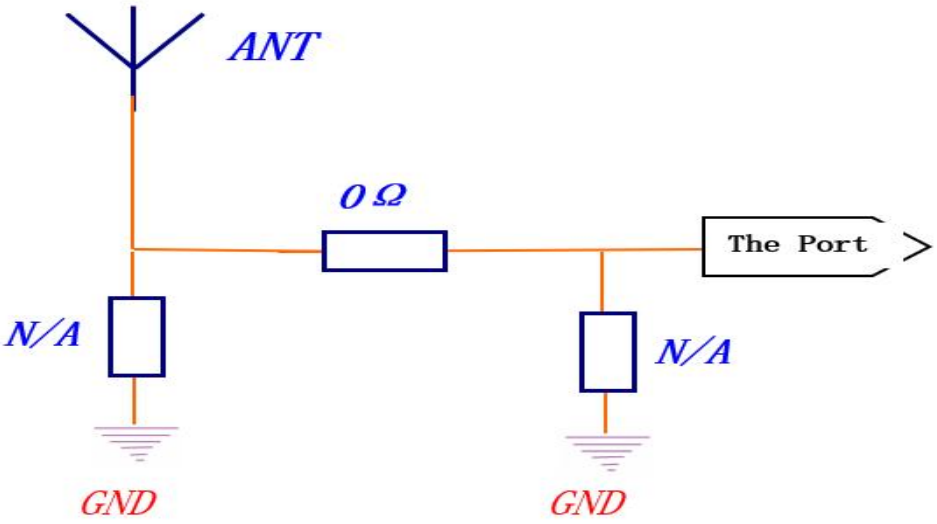
Freq. Band	Freq.(MHz)
WiFi	2400-2500

1-2 IMPEDANCE

Nominal Impedance(including matching circuit) : 50 ohms

1-3 MATCHING REQUIREMENTS

The matching circuit on the PCB of the handset is according to Figure 1-3.
Optimum matching circuit is highly dependent on the handset and thus.
Final matching circuit layout and values will be defined when handset is available



1-4 VSWR

FREE SPAC

Freq. Band	spec

※Measuring a 50Ω test jig is connected to a network analyzer to measure the VSWR.
※※All test value is done in customer approval fixture.

2. MECHANICAL SPECIFICATIONS

2-1 MECHANICAL CONFIGURATION

The appearance of the antenna is according to Figure 2-1

2. ENVIRONMENTAL CHARACTERISTICS

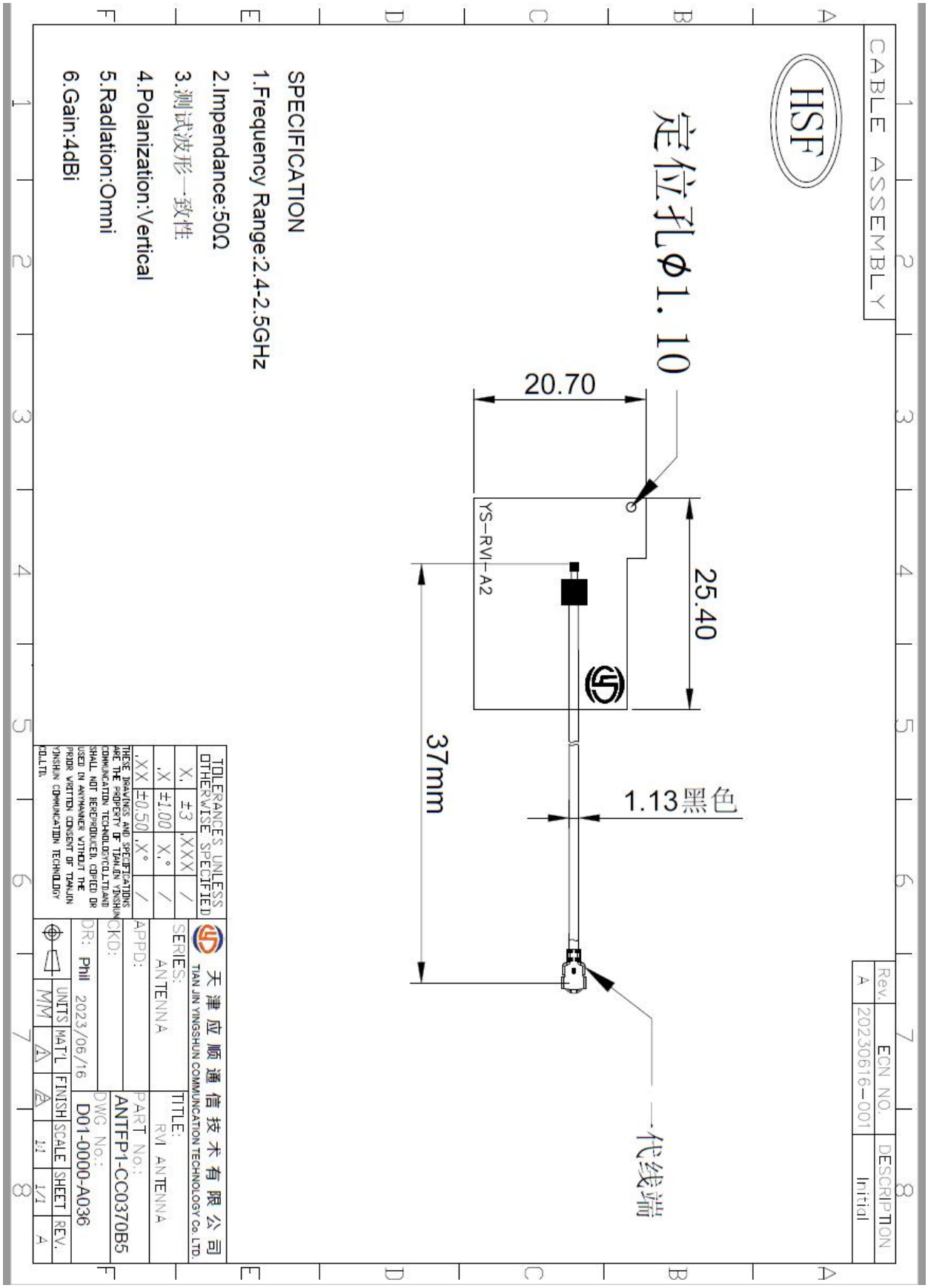
NO.	ITEM	TEST CONDITION	SPECIFICATION
3-1	Low Temperature Test	1.Temperature: -40±2℃ 2.Time: 48hrs	No material deformation is allowed.
3-2	High Temperature Test	1.Tempearture: +85℃ ±2℃ 2.Time: 48hrs	
3-3	High Temperature/Humidity Storage Test(non operating)	1.Temperature: +60 ±2℃ 2.Humidity: 93%±2%RH 3.Time: 48hrss	
3-4	Salt-Spray Test	35℃, 85%RH, 48Hours(According to MIL-STD-810E) The salt-spray is generated from a 5% salt(NaCl) solution.,	NO appear rusting phenomenon is allowed

4. PACKAGING

Antenna to be packed in a PE bag. Each 100 pcs per bag.

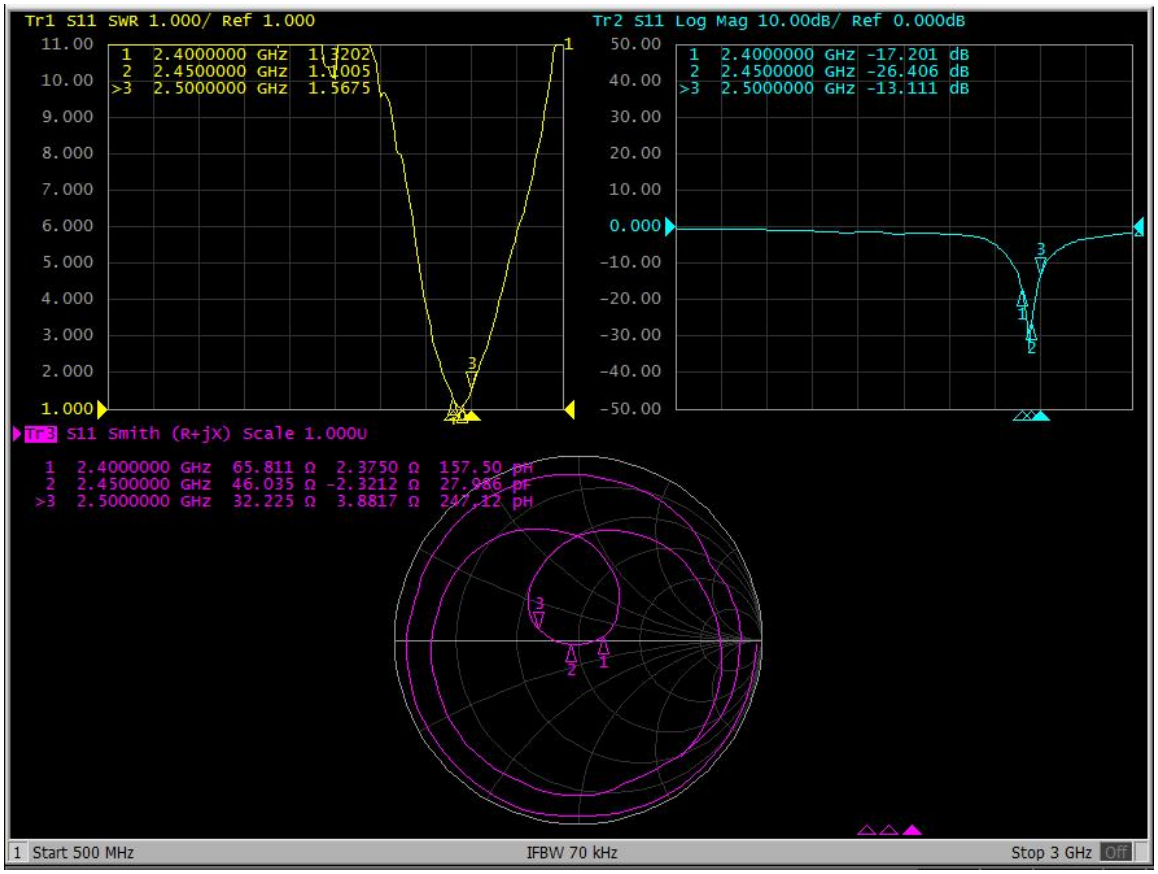
5. APPENDIX

All of the specifications are shown as the attached files.


HSF
CABLE ASSEMBLY
定位孔φ1.10
20.70
25.40
37mm
YS-RVI-A2
1.13黑色
代线端
SPECIFICATION
1.Frequency Range:2.4-2.5GHz
2.Impendance:50Ω
3.测试波形一致性
4.Polanization:Vertical
5.Radlation:Omni
6.Gain:4dBi
Rev.
ECN NO.
DESCRIPTION
A
20230616-001
Initial
TOLERANCES UNLESS OTHERWISE SPECIFIED
天津应顺通信技术有限公司
TIAN JIN YINGSHUN COMMUNICATION TECHNOLOGY Co. LTD.
SERIES: ANTENNA
TITLE: RVI ANTENNA
APPD:
CKD:
DR: Phil 2023/06/16
PART No.: ANTFP1-CC0370B5
DWG No.: D01-0000-A036
UNITS MM
MAT'L A
FINISH A
SCALE 1:1
SHEET 1/1
REV. A

Customer No: HuaLai Tec.	*File: 2023/06/16*
Supplier NO:	Note: VSWR/RT/Smith Chart
Sample No:	
Test Condition: FREE SPACE	Matching: N/A
Confirmation: Jing Qiang Hao	Engineer: Jing Qiang Hao

Figure 2-1

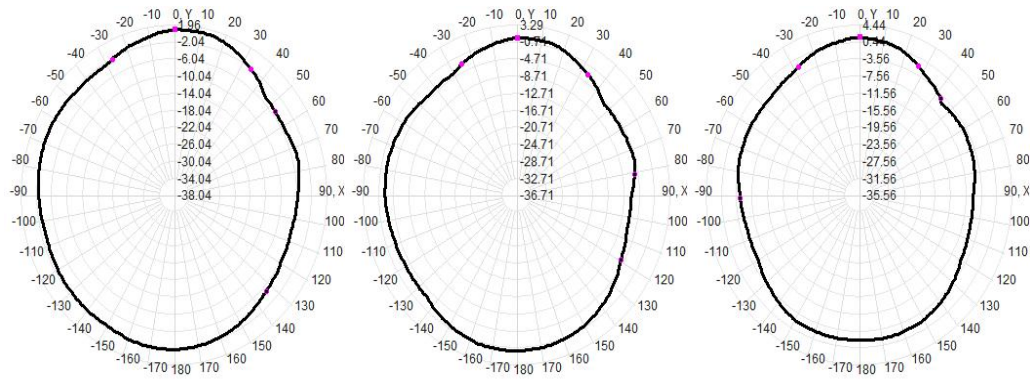


Antenna Test Date

一：Antenna Efficiency&PeakGain

Freq (MHz)	Effi (%)	Gain (dBi)
2400	**52.94**	**4.53**
2410	**51.86**	**4.56**
2420	**52.13**	**4.68**
2430	**52.93**	**4.63**
2440	**54.54**	**4.75**
2450	**56.73**	**4.92**
2460	**58.97**	**5.29**
2470	**60.82**	**5.59**
2480	**60.69**	**5.83**
2490	**58.99**	**6.03**
2500	**58.96**	**6.30**

二：Antenna 2D—2400/2450/2500MHz（For XY ）



三：Antenna 3D-2400/2450/2500MHz