SPECIFICATION

APPLICATION FOR APPROVAL

PART NAME : STAMPING ANTENNA
PART NO : S01-00N1-0014
DATE : 2022/08/29

Release : Full release

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

Ad: 2-805, Fubao Industrial Park, Fubao Road, Xiqing District, Tianjin Tel: 022-89545892

NTS

REVISION

REV.NO.	DATE	DESCRIPTION
0	2022/08/29	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

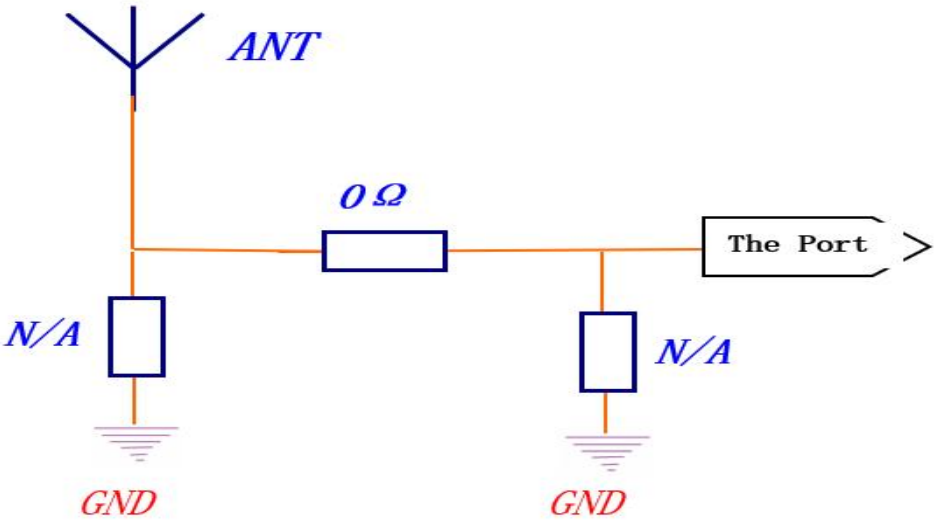
Freq. Band	Freq.(MHz)
WiFi	2400-2500

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

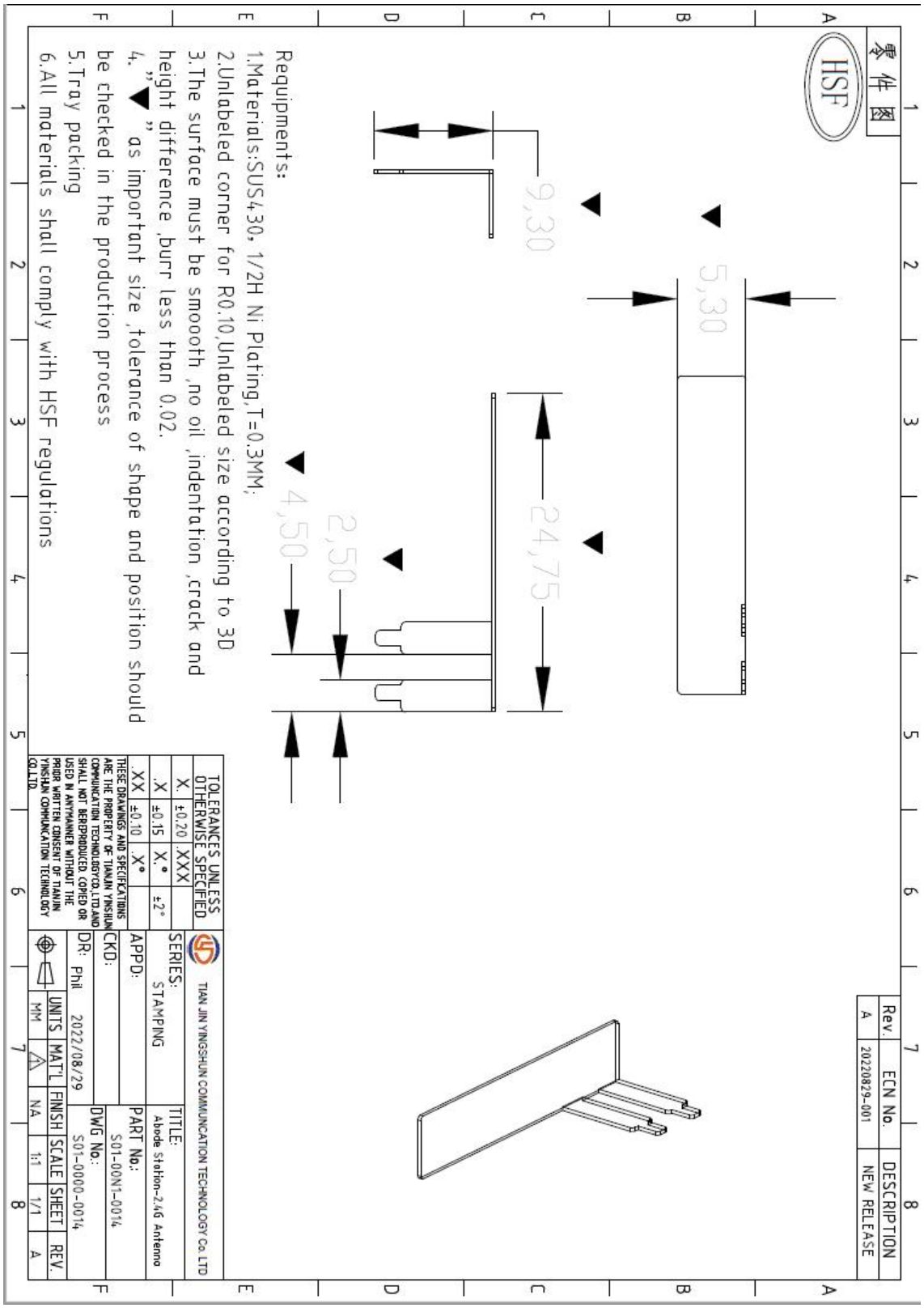
NO.	ITEM	TEST CONDITION	SPECIFICATION
3-1	Low Temperature Test	1.Temperature: -40±2℃ 2.Time: 48hrs	No material deformation is allowed.
3-2	High Temperature Test	1.Tempearture: +85℃ ±2℃ 2.Time: 48hrs	
3-3	High Temperature/Humidity Storage Test(non operating)	1.Temperature: +60 ±2℃ 2.Humidity: 93%±2%RH 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.


零件图
HSF
Rev.
ECN No.
DESCRIPTION
A
20220829-001
NEW RELEASE
9,30
5,30
24,75
2,50
4,50
Requipments:
1.Materials:SUS430, 1/2H Ni Plating,T=0.3MM;
2.Unlabeled corner for R0.10,Unlabeled size according to 3D
3.The surface must be smoooth ,no oil ,indentation ,crack and
height difference ,burr less than 0.02.
4. "▼ " as important size ,tolerance of shape and position should
be checked in the production process
5.Tray packing
6.All materials shall comply with HSF regulations
TOLERANCES UNLESS OTHERWISE SPECIFIED
X. ±0.20 .XXX
.X ±0.15 X.° ±2°
.XX ±0.10 .X°
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TIAN JIN YINGSHUN COMMUNICATION TECHNOLOGY Co. LTD
SERIES: STAMPING
TITLE: Abode Station-2.4G Antenna
APPD:
CKD:
DR: Phil 2022/08/29
PART No.: S01-00N1-0014
DWG No.: S01-0000-0014
UNITS MM
MAT'L NA
FINISH
SCALE 1:1
SHEET 1/1
REV. A

Customer No: HuaLai Tec.	*File: 2022/08/29*
Supplier NO:	Note: VSWR/RT/Smith Chart
Sample No:	
Test Condition: FREE SPACE	Matching: N/A
Confirmation: Jing Qiang Hao	Engineer: Jing Qiang Hao

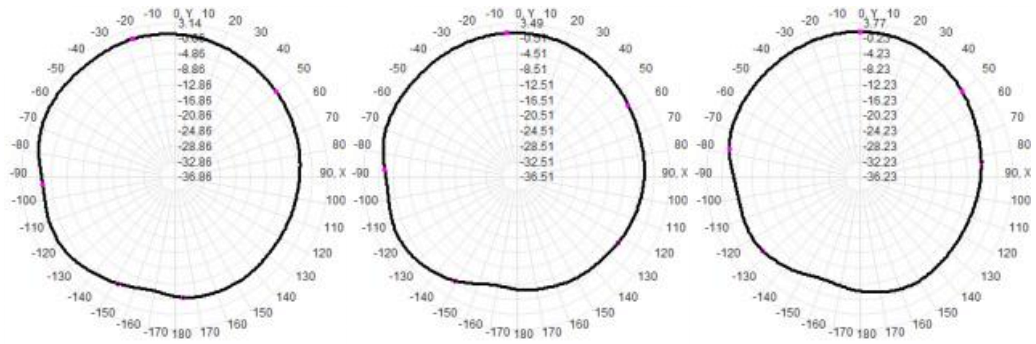
Figure 2-1

Antenna Test Date

一：Antenna Efficiency&PeakGain

Freq (MHz)	Effi (%)	Gain (dBi)
2400	54.79	3.35
2410	54.99	3.33
2420	56.10	3.43
2430	56.80	3.47
2440	59.63	3.67
2450	60.00	3.73
2460	61.26	3.84
2470	61.75	3.96
2480	60.44	3.90
2490	57.31	3.78
2500	58.28	3.89

二：Antenna 2D—2400/2450/2500MHz



三：Antenna 3D-2400/2450/2500MHz