深圳市映羽科技有限公司

承认书

APPROVAL SHEET

客户 Customer	掌阅
项目名 Project	SNO3
料号 Part NO.	ZYSNO3CWFTX887
规格 Specification	WIFI 2.4G/5G Antennas

APPROVAL			
yingyu:			
RF Check	ME Check	QC Check	Confirm By
Customer:			
EE Check	PM Check	QC Check	Confirm By

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Date:	Revision:	Updates and changes:	Issued by:
2022-06-30	A	Initial sheet	lixc

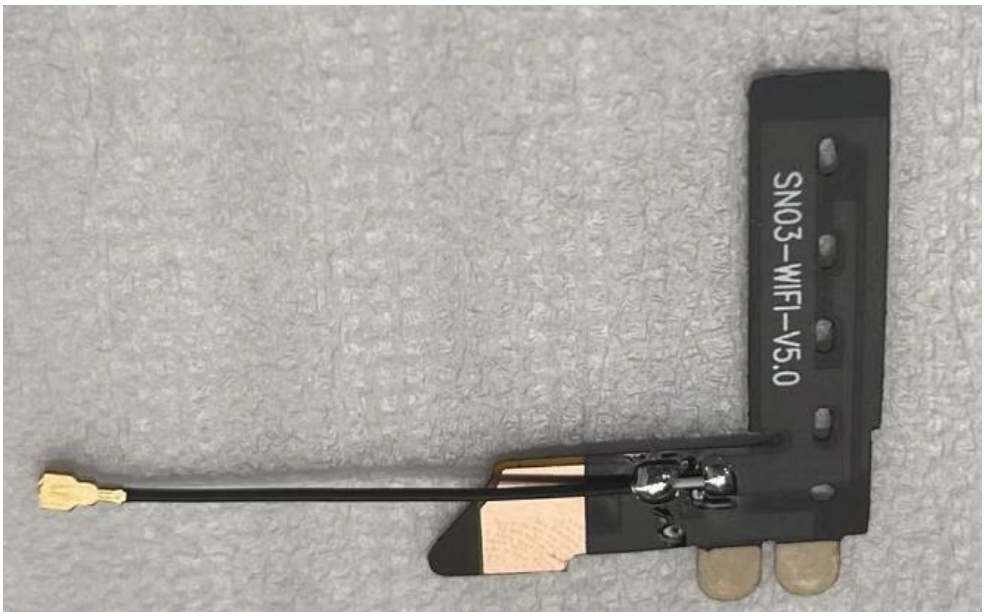
Contents

1 Antenna description

It summarize WIFI antennas for project SN03. WIFI ,antenna's frequency band is 2400-2500MHz, 5G-5.8MHz,

1.1 Part number

Part number of antenna：SN03 Antenna pictures



2 Electrical Performance

2.1 Specification

WIFI		
Frequency Range	2.4-2.5GHz	5G-5.8GHz
Return Loss	<-5	<-5
Efficiency	>45%	>45%

2.1 Measurement Set-up

2.1.1 VSWR and Return Loss

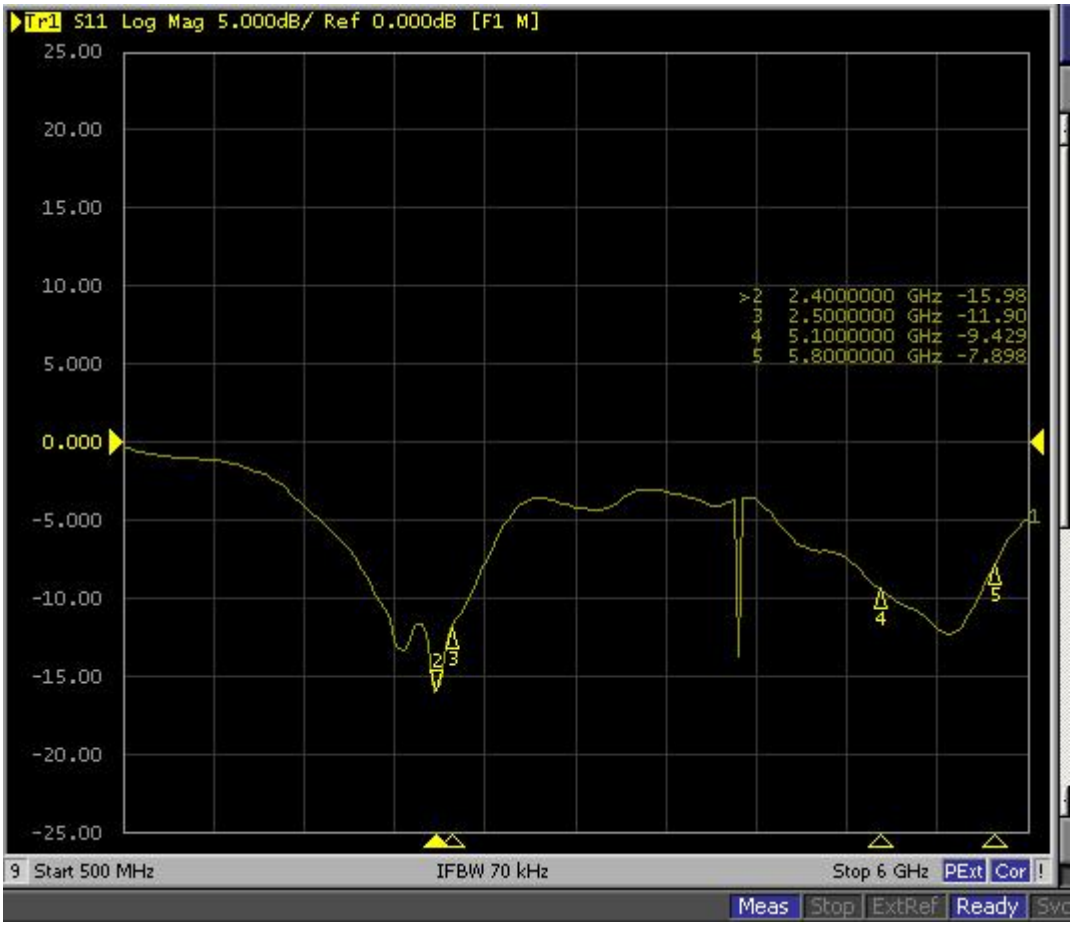
VSWR measurements (S_{11}) were performed using an Agilent ENA series Network Analyzer and the previously described test fixture. Coaxial chokes were used to mitigate surface currents on the outside of the cabling. The testing was performed in free space.

2.1.2 Efficiency and Gain

The gain of the antenna was measured in OPO's 3D anechoic chamber in Shenzhen, China. The chamber is a ETS system capable of doing tests from 380MHz to 6GHz. Coaxial chokes on the feed cable were used to mitigate surface currents during passive tests. The measurement results are calibrated using dipole standards. For TRP and TIS the chamber uses a 8960 / MT8820C to establish the connection with the mobile device and read the power.

3 Reference measurement data

3.1 Passive



Return Loss

3.2 Matching Circuit Description

无源效率

2.4G

Passive Test For WIFI

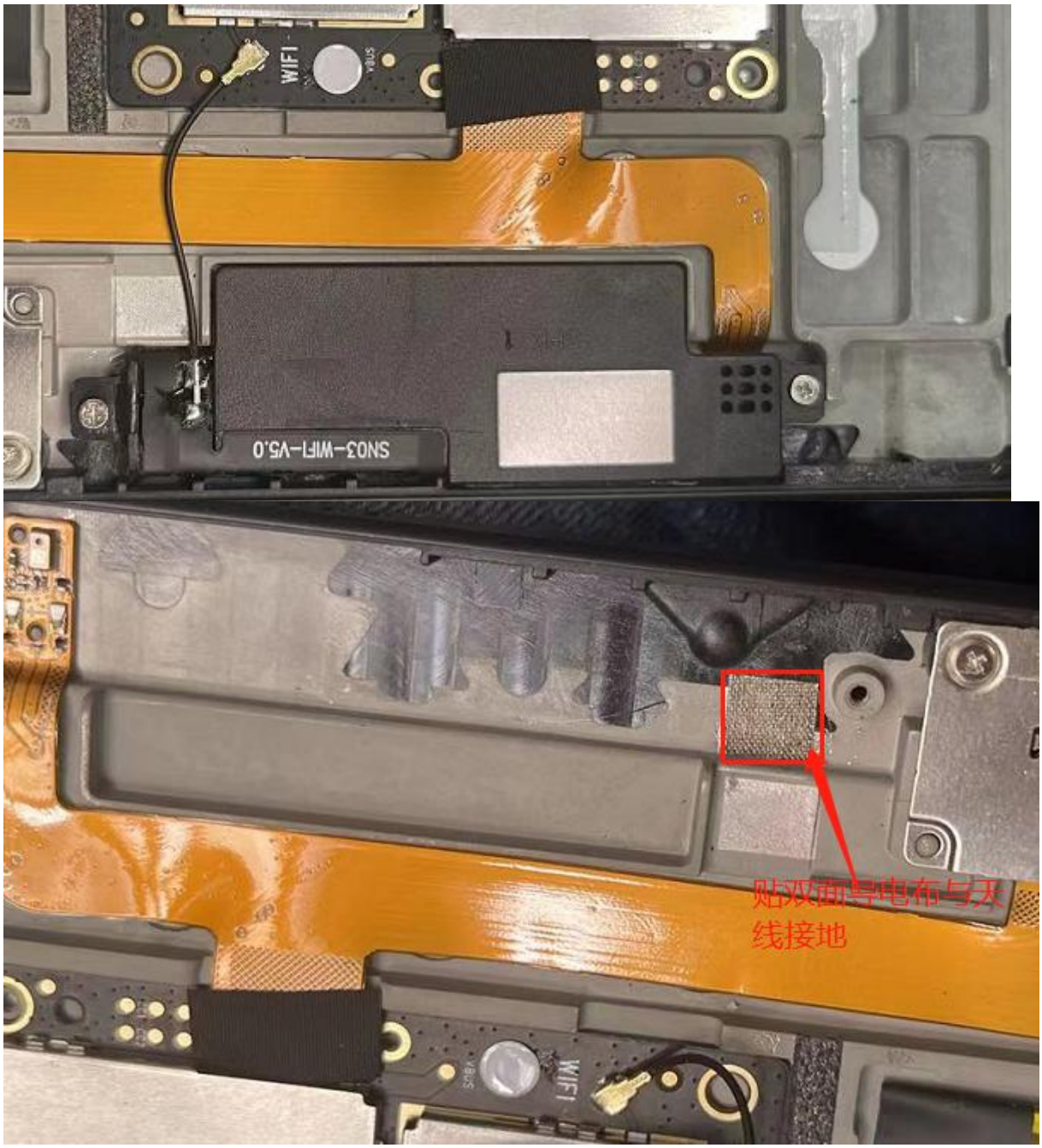
Freq (MHz)	Effi (%)	Effi (dB)
2400	48.79	-3.12
2410	50.31	-2.98
2420	52.14	-2.83
2430	50.86	-2.94
2440	49.51	-3.05
2450	50.81	-2.94
2460	52.01	-2.84
2470	50.93	-2.93
2480	48.35	-3.16
2490	50.77	-2.94
2500	49.92	-3.02

5G

Passive Test For 5Gwifi

Freq (MHz)	Effi (%)	Effi (dB)
5000	45.77	-3.39
5100	43.88	-3.58
5200	44.53	-3.51
5300	46.59	-3.32
5400	46.06	-3.37
5500	45.93	-3.38
5600	47.37	-3.24
5700	48.08	-3.18
5800	46.1	-3.36
5900	45.37	-3.43
6000	43.81	-3.58

天线装配图


WIFI
SN03-WIFI-V5.0
贴双面导电布与天线接地
WIFI

4 Mechanical description

4.1 Drawings