

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	SN03
料号 Part NO.	ZYSN03CWFTX887
规格 Specification	WIFI 2.4G/5G Antennas

APPROVAL			
yingyu:			
RF Check	ME Check	QC Check	Confirm By
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Date:	Revision:	Updates and changes:	Issued by:
2022-06-30	A	Initial sheet	lix

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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

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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			5G		
Passive Test For WIFI			Passive Test For 5Gwifi		
Freq (MHz)	Effi (%)	Effi (dB)	Freq (MHz)	Effi (%)	Effi (dB)
2400	48.79	-3.12	5000	45.77	-3.39
2410	50.31	-2.98	5100	43.88	-3.58
2420	52.14	-2.83	5200	44.53	-3.51
2430	50.86	-2.94	5300	46.59	-3.32
2440	49.51	-3.05	5400	46.06	-3.37
2450	50.81	-2.94	5500	45.93	-3.38
2460	52.01	-2.84	5600	47.37	-3.24
2470	50.93	-2.93	5700	48.08	-3.18
2480	48.35	-3.16	5800	46.1	-3.36
2490	50.77	-2.94	5900	45.37	-3.43
2500	49.92	-3.02	6000	43.81	-3.58

天线装配图



