

Shenzhen Yunding Communication Electronics Co., LTD

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APPROVAL

Shenzhen Xunlong Software Co., LTD

DESCRIPTION: **OPI Zero3-Double copper tube antenna-WIFI ANTENNA**

Model NO.: **N/A**

CUS PART NO.:

D A T E: **2024.1.30**

Yunding signature

ENGINEERING DEPARTMENT	Q C DEPARTMENT	SALES DEPARTMENT
Wu Shuyi	Liu li	Wang Hongtao

TEL: 0755-23073599 150 1794 1162

✕ Admitted that book in triplicate, please signed by your company.

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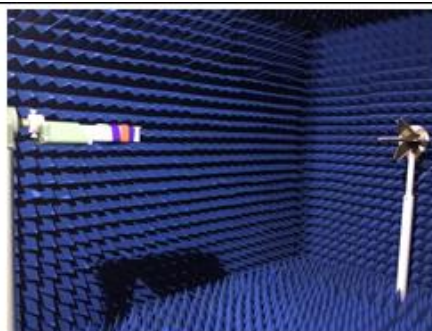
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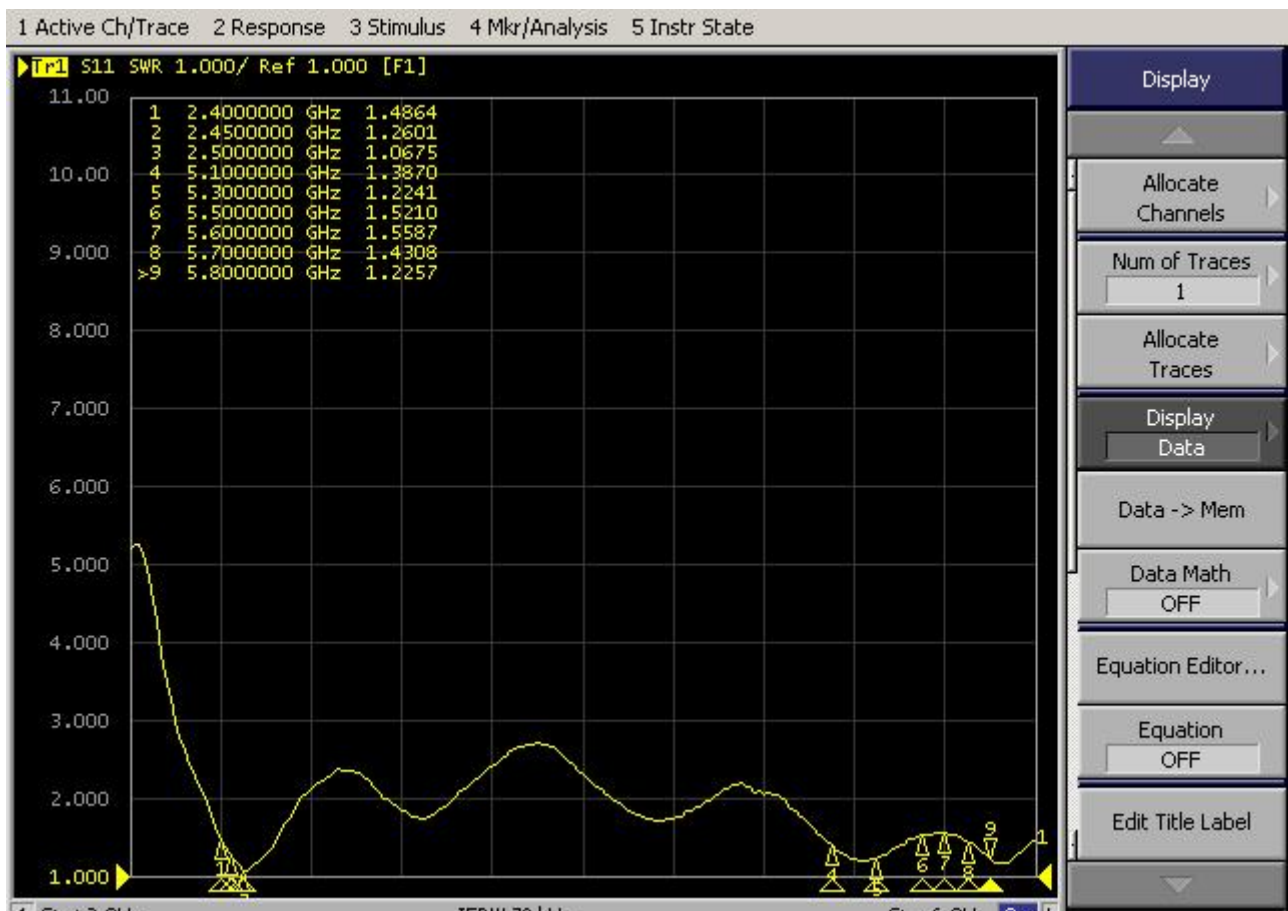
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1.Test items and equipment

	Test items	Equipment
1. S11-parameter	1. Return Loss 2. VSWR	Network analyzer: Agilent E5071B HP 8753D
2. Active test	1. Transmitting powerTRP 2. Receiving sensitivityTIS	1. Darkroom: ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2.Comprehensive tester: Agilent 8960 E5515B ×2 StarPoint SP6011
3.Passive test	1.Gain 2.Efficiency	1. Darkroom: ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2. Network analyzer: Agilent E5071B HP 8753D



2. Antenna performance-SWR



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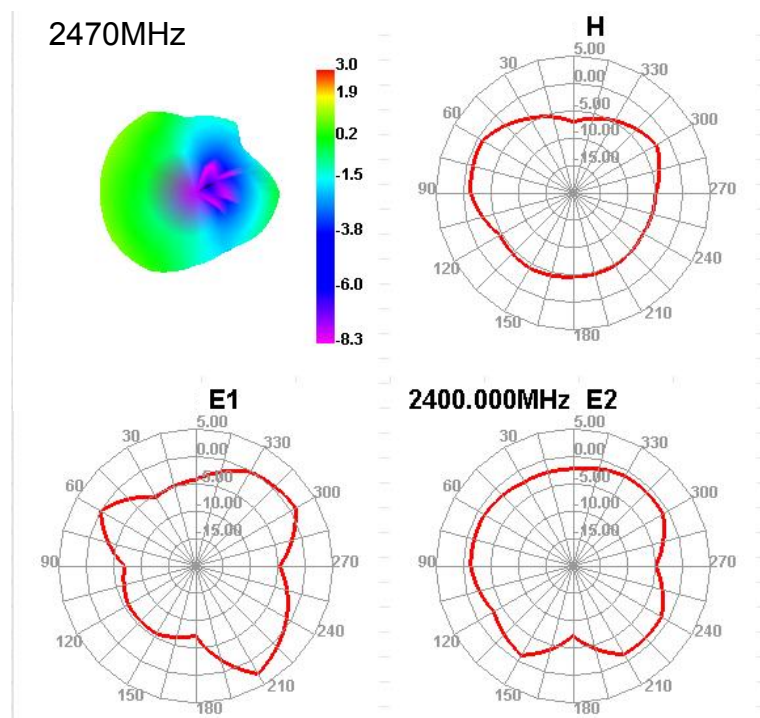
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3. OTA -Passive data:

Passive Test For WIFI			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	65.99	-1.8	2.99
2410	61.32	-2.12	2.62
2420	60.58	-2.18	2.52
2430	61.75	-2.09	2.58
2440	64.63	-1.9	2.73
2450	66.86	-1.75	2.86
2460	67.45	-1.71	2.92
2470	68.53	-1.64	3.02
2480	67.12	-1.73	2.94
2490	64.57	-1.9	2.74
2500	63.95	-1.94	2.7



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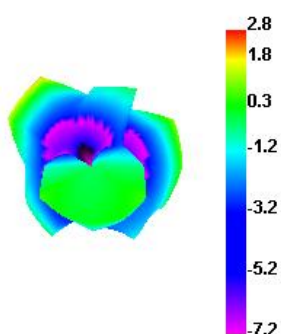
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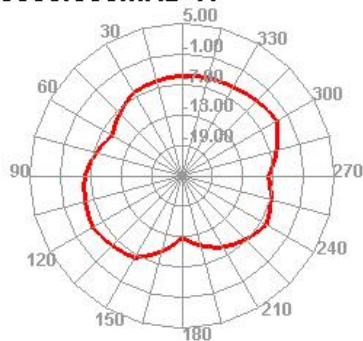
Passive Test For WIFI-5G

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5100	47.61	-1.7	2.49
5200	45.39	-1.4	2.67
5300	45.1	-1.48	2.76
5400	50.94	-1.68	2.59
5500	47.98	-1.68	2.49
5600	48.41	-1.71	2.25
5700	50.82	-1.95	2.02
5800	44.69	-1.89	2.13

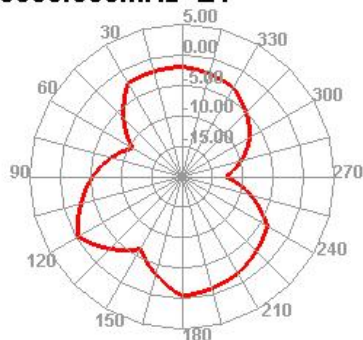
5300.000MHz



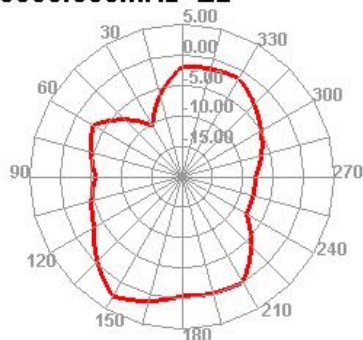
5300.000MHz H



5300.000MHz E1



5300.000MHz E2



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Technical parameters of electrical apparatus

Electrical Specifications

Frequency Range	2400~2500/4900~5850MHz
VSWR	≤ 2.0
Gain	2.4G: 3.02 dBi/ WIFI 5G: 2.76 dBi
Input Impedance	50 Ω
Maximum Input Power	50W

Mechanical Specifications

Antenna Color	Black
Input connector	IPEX 4
Cable length	123mm
Working Temperature	-40℃~+85℃
Working Humidity	20~80%

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RF0.81 specification

1. Scope

This specification covers the construction and the electrical properties of wire.

RF Coaxial Cable

36AWG*1C+Braid OD0.81±0.05

2. Construction

Unit: mm

	Item	Unit	Details
Conductor	Material	-	Silverplated copper
	Composition	(No./mm)	1/0.15±0.003
	OD.	mm	0.15
	Orientation	-	-
Insulation	Material	-	FEP
	Insulation color	-	Clarity
	OD.	-	0.41±0.02
Braid	Material	-	Tinned copper
	Construction	(No./mm)	16/3/0.05±0.005
	Coverage ratio	%	90±5
	OD.	mm	0.61±0.03
Jacket	Material	-	FEP
	Color	-	black
	NOM. O.D	mm	0.81±0.05

3. Electrical Properties (at 20°C)

Item	Unit	Details
Conductor Resistance	Ohm/KM	1361.02 Ohm/KM
Dielectric Strength(AC)	V/ 1 Min	1000
Impedance	ohm	50±2(at 1ns@TDR)
Standing wave ratio	/	≤1.3@0-6GHz
Attenuation	Frequency	Standard vaalue Unit:dB/m
	1GHz	≤3.1
	2GHz	≤4.7
	3GHz	≤5.8
	4GHz	≤6.9
	5GHz	≤7.8
	6GHz	≤8.5

4. tructure drawing

