



深圳市信维通信股份有限公司

SHENZHEN SUNWAY COMMUNICATION CO.,LTD

规格承认书

SPECIFICATION FOR APPROVAL

日期
Date 2025/09/13编号
File No版本
Revision 1.0

客 户

CUSTOMER: kaifa

客户料号

CUSTOMER NO: KF001

品 名

PART NAME: Antenna

供方料号

SUPPLIER NO:

送样日期Date:

送样数量Q'TY:

客户确认CUSTOMER APPROVED BY

APPROVAL	CHIEF	SUPERVISOR

供方确认 SUPPLIER SIGNATURE

APPROVAL	CHECK	DESIGN

天线规格

Antenna Specification

Electrical Properties	
Frequency	2.4-2.5GHz 5.15-5.9GHz
Impedance	50 Ohm Nominal
V.S.W.R	3.0 Max@2.4-2.5GHz 2.0 Max@5.15-5.9GHz
Gain	-1.2 dBi@2.4-2.5GHz 2.1 dBi@5.15-5.9GHz
Radiation	Omni-directional
Polarization	Linear
Physical Properties	
Connector	None
Cable Type	O. D0.81mm Normal
Cable Length	43.87 mm
Operating Temp.	-40 ~ +85 °C
Storage Temp / Humidity	25±5°C / <70%

www.sz-sunway.com

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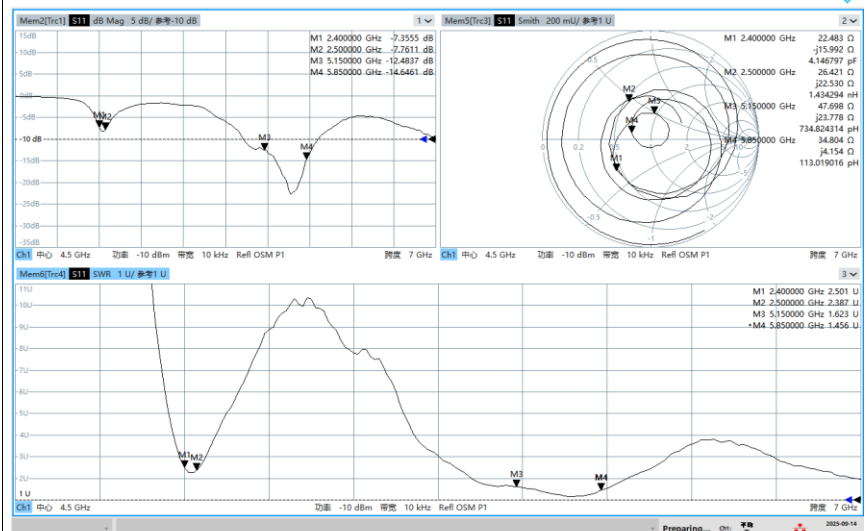
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Antenna Performance Test

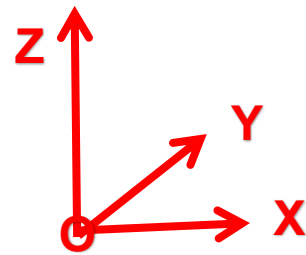
RONDE&S
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Parameter
Test/
WiFi
Antenna



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Antenna Passive Test

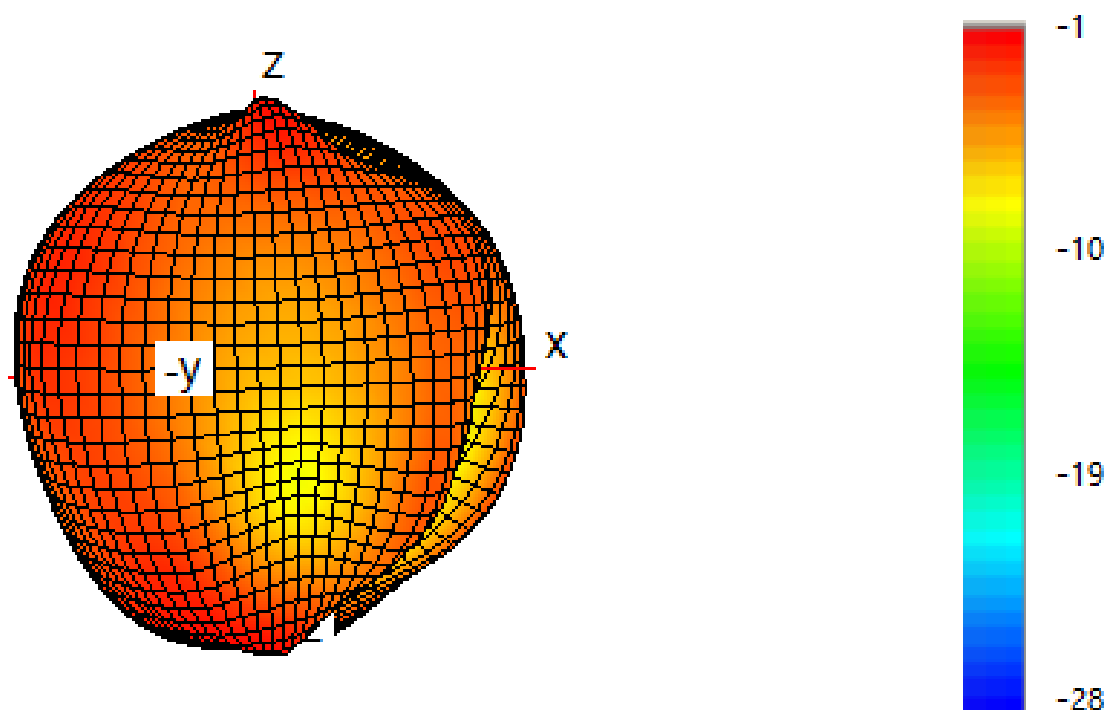




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Radiation Pattern For WiFi Antenna (2450MHz)

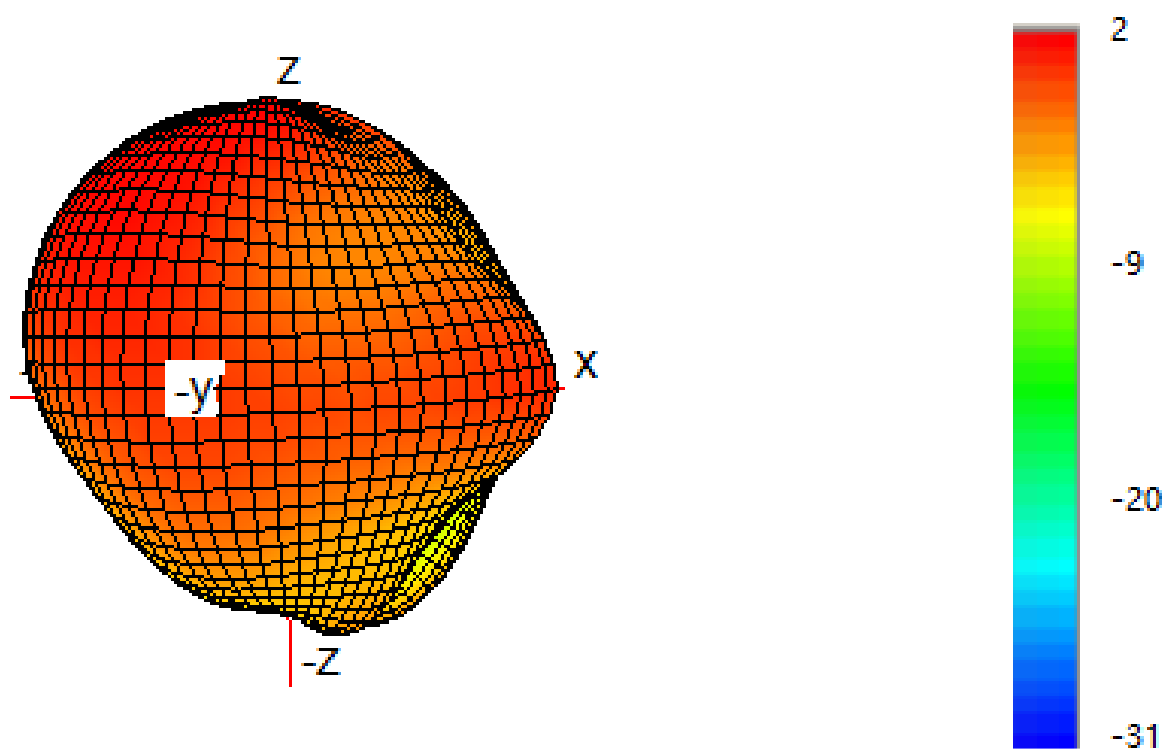




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Radiation Pattern For WiFi Antenna (5500MHz)



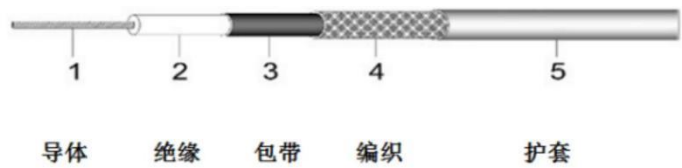


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Active Test For WiFi Antenna					
Band	Channel	Data Rate	TRP	Data Rate	TIS
WIFI 2.4G 802.11b	1	5.5Mbps	14.0	11Mbps	-83.1
	7		14.9		-84.2
	11		14.3		-84.6
WIFI 2.4G 802.11g	1	6Mbps	14.7	54Mbps	-69.5
	7		15.6		-70.3
	11		15.5		-70.7
WIFI 2.4G 802.11gn	1	MCS7	12.8	MCS7	-66.2
	7		13.8		-67.2
	11		13.8		-67.2
WIFI 5G 802.11a	48	6Mbps	14.2	54Mbps	-72.3
	100		15.4		-71.9
	149		14.5		-72.6
	161		14.7		-71.7
WIFI 5G 802.11an	48	MCS7	14.2	MCS7	-67.9
	100		15.4		-68.2
	149		14.6		-68.7
	161		14.7		-68.1

1. 结构图/Configuration



2. 结构/Construction:

项目/Item		详细资料/Details
①内导体 Inner conductor	材料/Material	镀银铜线/Silver plated Copper
	构成(根/mm) /Composition (No. /mm)	7/0.05±0.005
	标称直径/NOM. O.D	0.15±0.01
②绝缘层 Insulation	材料/Material	聚全氟乙丙烯/FEP
	标称外径/NOM. O.D	0.43±0.03
	颜色/Color	Natural
③包带 Tape	材料/Material	Copper PET Tape
④外导体 Outer conductor	材料/Material	镀锡铜线 Tinned copper
	形式 Type	编织/Weaving
	构成/Composition	16/3/0.05±0.005
	遮蔽率/ Shielding rate	90±5%
	标称直径/NOM. O.D	0.63±0.03
⑤护套层 Jacket	材料/Material	聚全氟乙丙烯/FEP
	标称外径/NOM. O.D	0.83±0.05
	颜色/Color	按客户要求

3. 性能特性 Performance characteristics

项目/Item	单位/Unit	详细资料/Details	
电容/Capacitance	pF/m	98	
特性阻抗/Conductor Resistance	Ω	50±3.0	
耐压强度/Dielectric Strength	A.C V/1min	1000	
最大工作频率/Max.oper. frequency	MHz	6000	
抗拉强度/Tensile strength	kgf/mm²	1.76	
衰减/Attenuation	/	频率/Frequency	dB/1m
		1GHz	≤2.8
		2GHz	≤4.0
		3GHz	≤5.4
		4GHz	≤6.1
		5GHz	≤6.8
		6GHz	≤7.5
		7.5GHz	≤8.0
		8GHz	≤8.8
驻波比/Standing wave (0-6GHz)	/	≤1.3	

4. 机械性能特性 Mechanical characteristics

项目 Item	单位 Unit	详细资料/Details
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最小弯曲半径(一次) Min.bending radius static	mm	4
工作温度范围 Operating temperature	℃	-55to200

5. 使用提示 Use tips

存储环境 Storage environment	温度：30℃以下；湿度：20%~65%
最佳保存周期 The best save cycle	2 个月，2 个月以上锡效果变差, 但电性能不受影响，夏季高温高湿环境开剥后需尽快流转
加工温度 Processing temperature	250℃~260℃的情况下，可短时间承受；300℃以上会出现热分解现象
铁氟龙收缩 Teflon Shrink	绝缘层收缩 $\leq$ 0.2mm；护套层收缩 $\leq$ 0.3mm

6. 包装 Packing

标准单位包装长度为 1000 米/盘, 每盘最多允许 5 个接头, 接头最短长度 10 米, 在搬运过程中不能损坏包装。
Standard unit for the 1000m/reel length of packaging, each set up to allow 5 joints, the joint shortest length of 10m, The finished cable shall be packed not be damaged during transportation.

7. 其他 Other

特殊加工工艺，请与供方协商后使用。
Special processing technology, please use after consultation with the supplier.