

承認書

APPROVAL SHEET

客 户
CUSTOMER:

Shenzhen Simolio Electronic Co., Ltd

品 名 规 格
DESCRIPTION:

2DB 胶棒黑色-2.4G-1.13 黑-外露 L90MM-IPEX

料 号
PART NO.:

客 户 料 号
CUS PART NO.:

日 期
D A T E:

2022. 8. 31

呈样签章

工 程 ENGINEERING DEPARTMENT	品 保 Q C DEPARTMENT	业 务 SALES DEPARTMENT
赵乐康	郑裕玲	赵乐康

客户承认签章

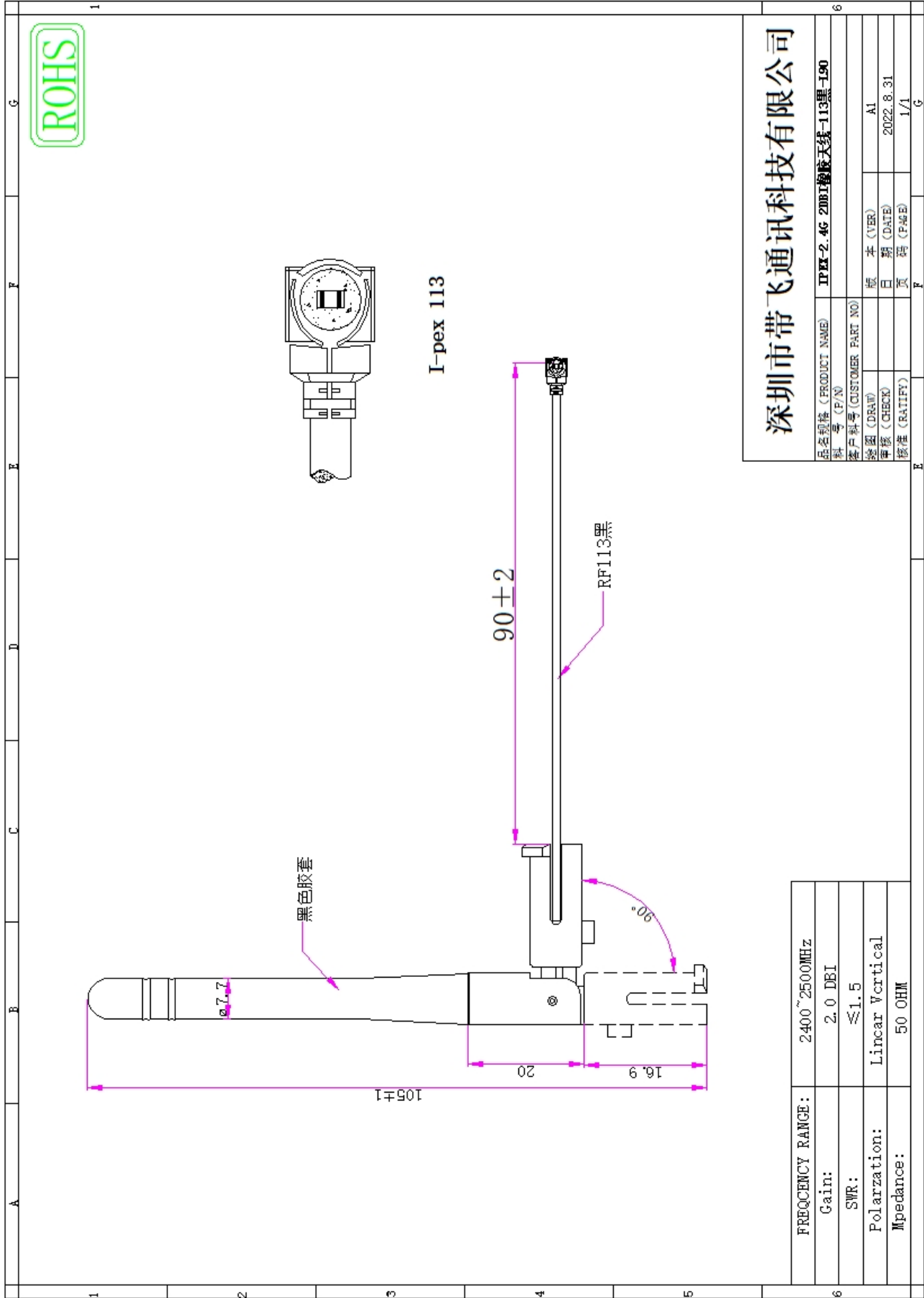
工 程 ENGINEERING DEPARTMENT	品 保 Q C DEPARTMENT	采 购 PURCHASING DEPARTMENT

联系电话: 13728836054

※ 承认书一式三份, 惠蒙贵司承认签章

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

1.天线结构图:

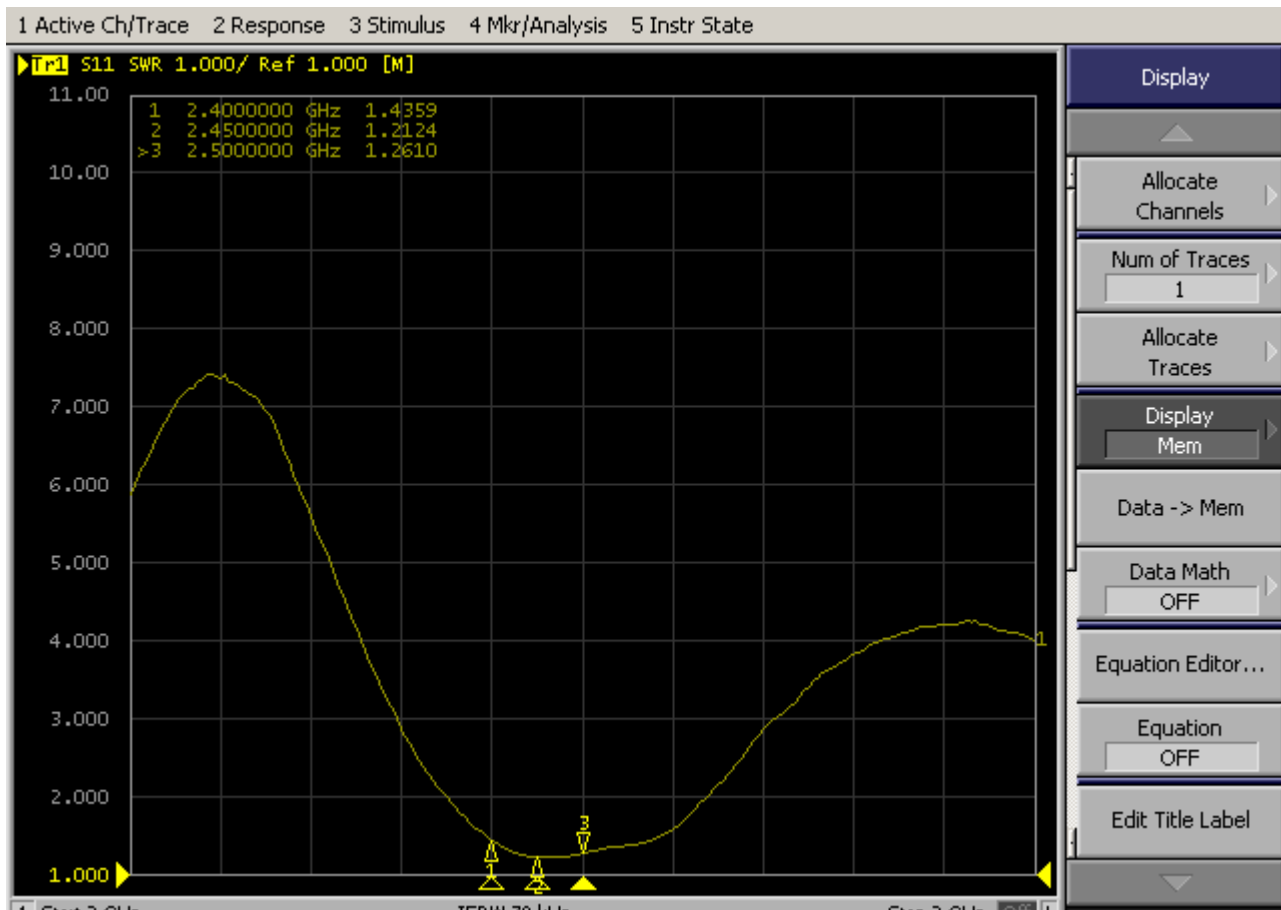


深圳市带飞通讯科技有限公司

品名规格 (PRODUCT NAME)	TPPX-2.4G 2001I橡胶天线-113黑-190	
料号 (P/N)		
客户料号 (CUSTOMER PART NO)		
版图 (DRAW)	版本 (VER)	AI
审核 (CHECK)	日期 (DATE)	2022.8.31
核准 (RATIFY)	页码 (PAGE)	1/1

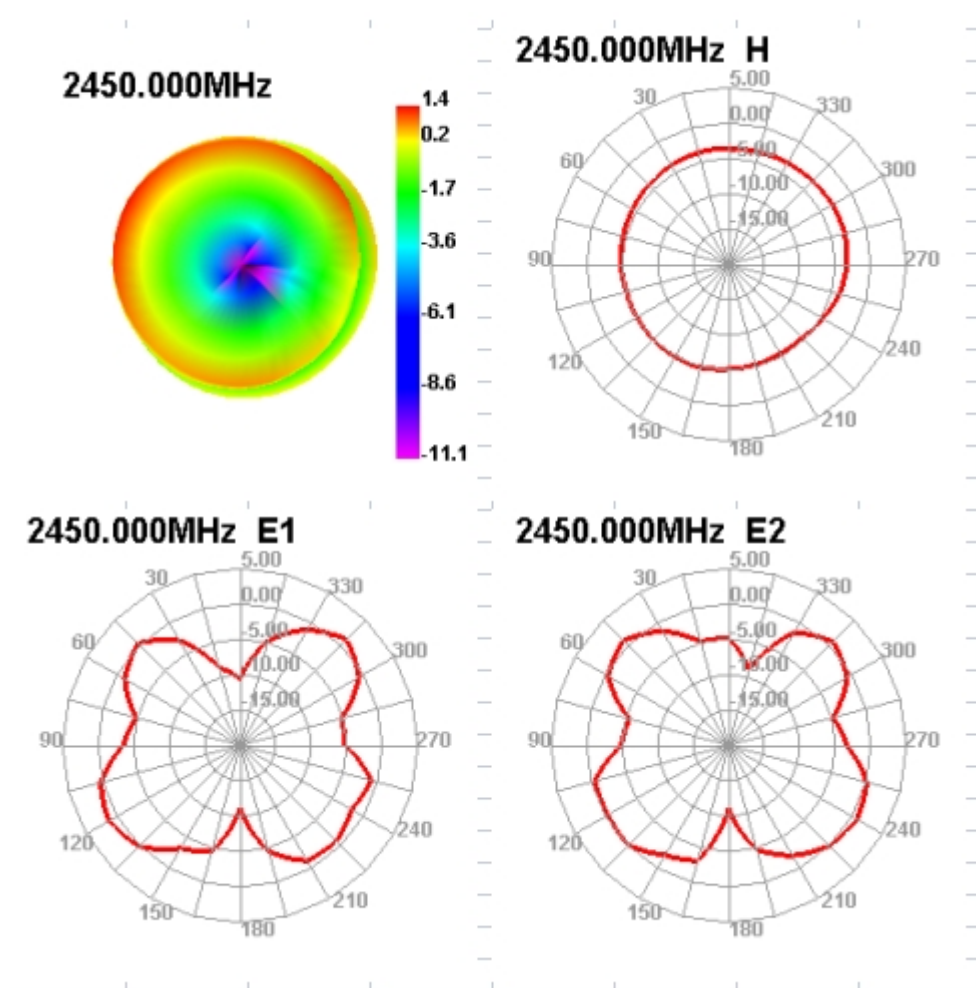
FREQUENCY RANGE:	2400~2500MHz
Gain:	2.0 DBI
SWR:	≤1.5
Polarization:	Linear Vertical
Impedance:	50 OHM

2.网络测试图：



3.OTA-增益效率测试数据:

Passive Test For WIFI										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHIS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2400	54.51	-2.64	1.93	-1.22	27.374	27.137	1.93	-15.24	48.42	48.27
2410	53.12	-2.75	1.97	-1.18	26.984	26.137	1.97	-15.25	48.62	48.42
2420	54.92	-2.6	2.22	-0.93	28.175	26.746	2.22	-15.05	48.87	48.69
2430	53.16	-2.74	2.04	-1.11	27.347	25.813	2.04	-15.2	48.84	48.66
2440	52.85	-2.77	1.9	-1.25	27.092	25.756	1.9	-15.14	48.95	48.73
2450	54.93	-2.6	1.95	-1.2	27.939	26.992	1.95	-15.43	49.07	48.77
2460	56.27	-2.5	1.99	-1.16	28.379	27.893	1.99	-15.88	49.11	48.76
2470	56.58	-2.47	2.06	-1.09	28.364	28.212	2.06	-16.95	49.11	48.73
2480	60.33	-2.19	1.44	-0.71	30.169	30.16	1.44	-17.48	49.41	48.96
2490	65.91	-1.81	1.97	-0.18	32.97	32.943	1.97	-17.48	49.76	49.29
2500	63.79	-1.95	1.9	-0.25	32.048	31.746	1.9	-17.49	49.65	49.12



电器技术参数

电性能指标		Electrical Specifications	
频率范围	2400~2500MHz	Frequency Range	2400~2500MHz
电压驻波比	≤1.5	VSWR	≤1.5
增益	2 DBI	Gain	2 DBI
输入阻抗	50 Ω	Input Impedance	50 Ω
最大输入功率	50W	Maximum Input Power	50W
机械指标		Mechanical Specifications	
天线颜色	黑色	Antenna Color	Black
接口形式	IPEX	Input connector	IPEX
天线长度	90mm	Cable length	90mm
工作温度	-40℃~+85℃	Working Temperature	-40℃~+85℃
工作湿度	20~80%	Working Humidity	20~80%

环境性能测试 (Environment performance test) :

项目	测试条件	测试结果
储存环境	在没有指定的情况下测试温度、湿度、气压如下： 1. 温度为-30℃~+80℃ 2. 相对湿度为45%-85% 3. 气压为86kpa-106kpa	电气机械性能正常
高低温试验	在70℃与-40℃之间进行5次循环，然后在正常条件下1-2H，检查外观质量。	尺寸应满足规定并应满足于机械、电气性能
耐恒定湿热试验	相对湿度95±3%，试验温度：40℃.持续2H作用后，试品取出后5min之内测定电气性能，试品在正常条件下1-2H，检查外观质量	尺寸应满足规定并应满足于机械、电气性能
振动试验	振频范围10-55HZ，位移幅值：0.35MM，加速度幅值：50.0M/S，扫频循环次数：30次	电气机械性能正常
跌落试验	1M高空按照互相垂直的轴方向自由跌落3次	电气机械性能正常

Project	Test condition	Test results
Storage environment	Test temperature, humidity, pressure without stated condition as followings:1.Temperature: -30℃~+80℃;2.Relative humidity: 45%-85%;3,Pressure: 86kpa-106kpa	Electrical and mechanical performance normal
High and low temperature test	Having 5 times cycle between -40℃ to 70℃,Then in common condition 1-2 hours test exterior quality.	Measurement satisfied with electrical and mechanical performance normal.
Resistance constant hot and humid test	Relative humidity:95±3%,Test temperature: 40℃,last 2 hours ,put it after 5 min test the electrical function .Test products during common condition 1-2 hours ,Then test exterior quality.	Measurement satisfied with electrical and mechanical performance normal.
Vibration test	Vibrate Frequency:10-55HZ; Distance :0.35mm;Acceleration :50.0m/s;Sweep frequency cycle:30 times	Electrical and mechanical performance normal
Fall test	From 1m height fall down 3 times freely (vertical direction)	Electrical and mechanical performance normal

RF113 规格

1. 适用范围

本规格书制定了电线的结构和电气特性

同轴线
AWG 32

1. Scope

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

Coaxial Wire
AWG 32

2. 结构/Construction

单位/Unit: mm

项目/Item		单位/Unit	详细资料/Details
Conductor 导体	材料/Material	-	绞合镀银铜丝 Silver-coated copper wire
	构成/Composition	(No./mm)	7/0.08
	外径/OD.	mm	0.24
	绞向/Orientation	-	S
Insulation 绝缘层	材料/Material	-	FEP(进口料)
	绝缘颜色/Insulation color	-	本色/Natural
	标称绝缘厚度/ Nom. Thickness	mm	0.22
	绝缘线径/OD.	mm	0.69
Braid Shield 编织	材料/Material	-	镀锡铜丝 Tinned copper wire
	构成/Composition	(No./mm)	16/4/0.05
	编织密度/Coverage	(%)	>=90
Jacket 外被	材料/Material	-	FEP
	标称绝缘厚度/ Nom. Thickness	mm	0.12
	外径/OD.	mm	1.13±0.10

3. Electrical Properties (at 20°C) /电气特性(20°C时)

项目/Item	单位/Unit	详细资料/Details
导体电阻/Conductor Resistance	Ω/km	571 (Max.)
绝缘电阻/Insulation Resistance	MΩ • km	100 (Min.)
耐压强度(AC)/Dielectric Strength(AC)	V/ 1 Min	500
特性阻抗/Impedance	Ω	50 ± 3
耐温等级/ Temperature	°C	200
额定电压/rated voltage	V	30

4. 电线截面图示如下:

