



承认书

APPROVAL SHEET

样品封订

客户名称 Customer Name 国光

产品型号 Product Model Flip7

客户料号 Customer P/N EAN0042201

规格描述 Specifications BT 天线 (BT ANT)

南斗星料号 Southstar P/N 3. N101. 1514

制作日期 Production date 2024. 8. 16

制作版本 Revision 5. 0

南斗星 (Southstar)		
编制 (FICTION)	品质 (DQE)	研发 (R&D)
客户 (Customer)		
采 购 (PUR)	品质 (QC)	研发 (R&D)

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网站 (website)：//www.southstar-tech.com

承认书变更履历

Confirmation of Change of Resume

版本 version	日期 date	变更描述 Change description	备注 notes
1.0	6.27	初版 First edition	
2.0	7.24	更改线长 Change line length	
3.0	8.1	增加客户料号 Add customer part number	
4.0	8.15	更改线长、增加 FPC 厚度 Change wire length and increase FPC thickness	线长由 60MM 变更为 70MM
5.0	8.16	变更泡棉贴的尺寸 Change the size of foam stickers	客户需求 customer demand



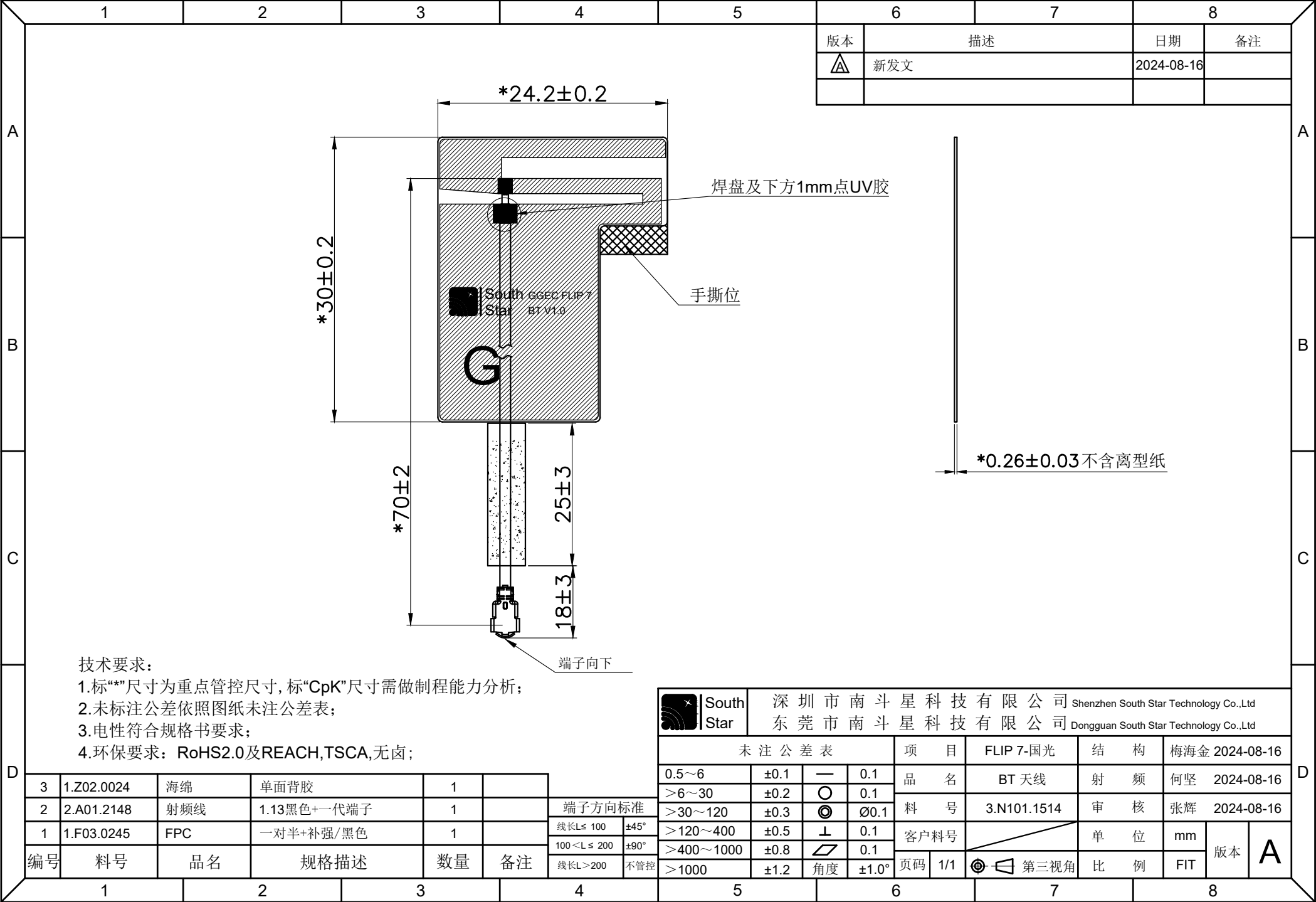
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基本参数 (The basic parameters)

A. 电性能Electrical Characteristics	
Frequency 频率	2400MHz~2500MHz
VSWR 电压驻波比	< 2
Efficiency 效率	>50%
Impedance 阻抗	50 Ohm
Polarization 极化	Linear
Peak Gain 最大增益	2.14dBi
Antenna type 天线类型	PIFA
B. 材料&物理性能Material & Mechanical Characteristics	
射频材料 Material of Radiator	FPC Black
射频线类型 Cable Type	1.13mm 线径 Black
接头类型 Connector Type	1 代端子
C. 环境 Environmental	
工作温度 Operation Temperature	- 30° C ~ + 65° C
存放温度 Storage Temperature	- 40° C ~ + 70° C



测试设备 (Test Equipment & Conditions)

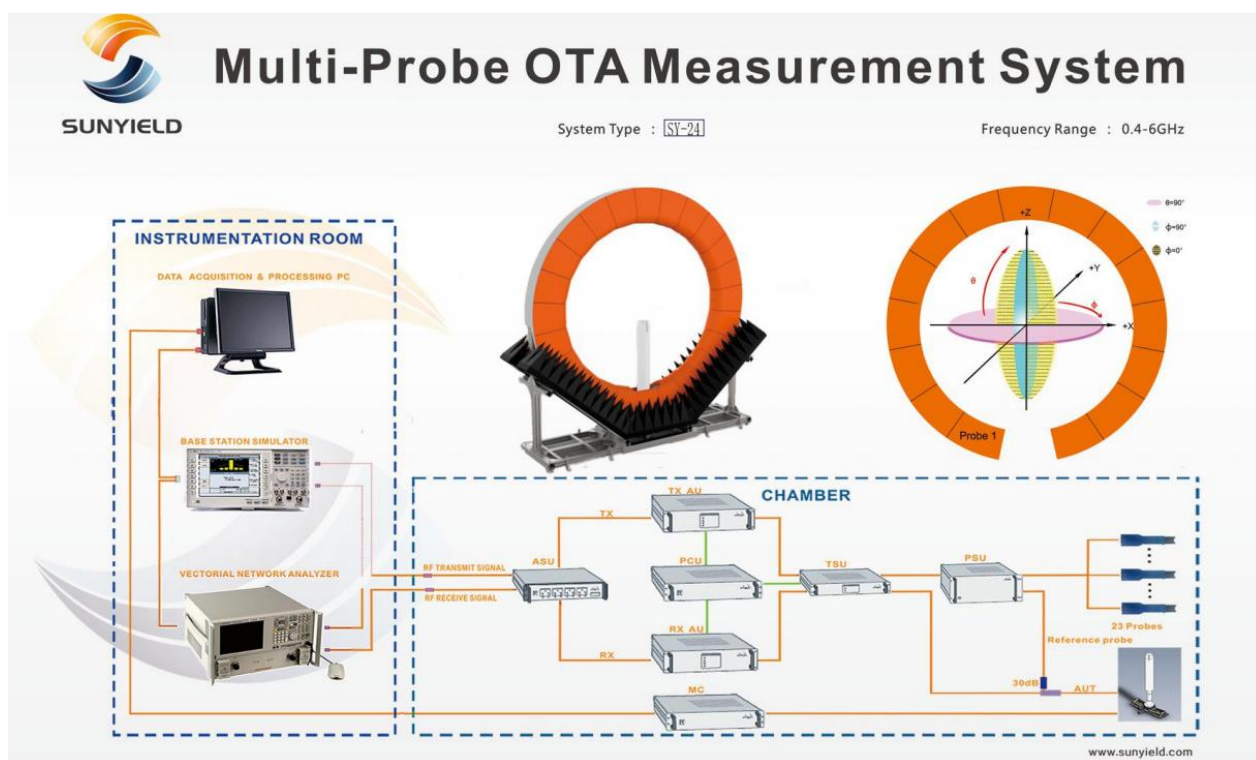
1. 网络分析仪 NetWork Analyzers:

Keysight E5071C

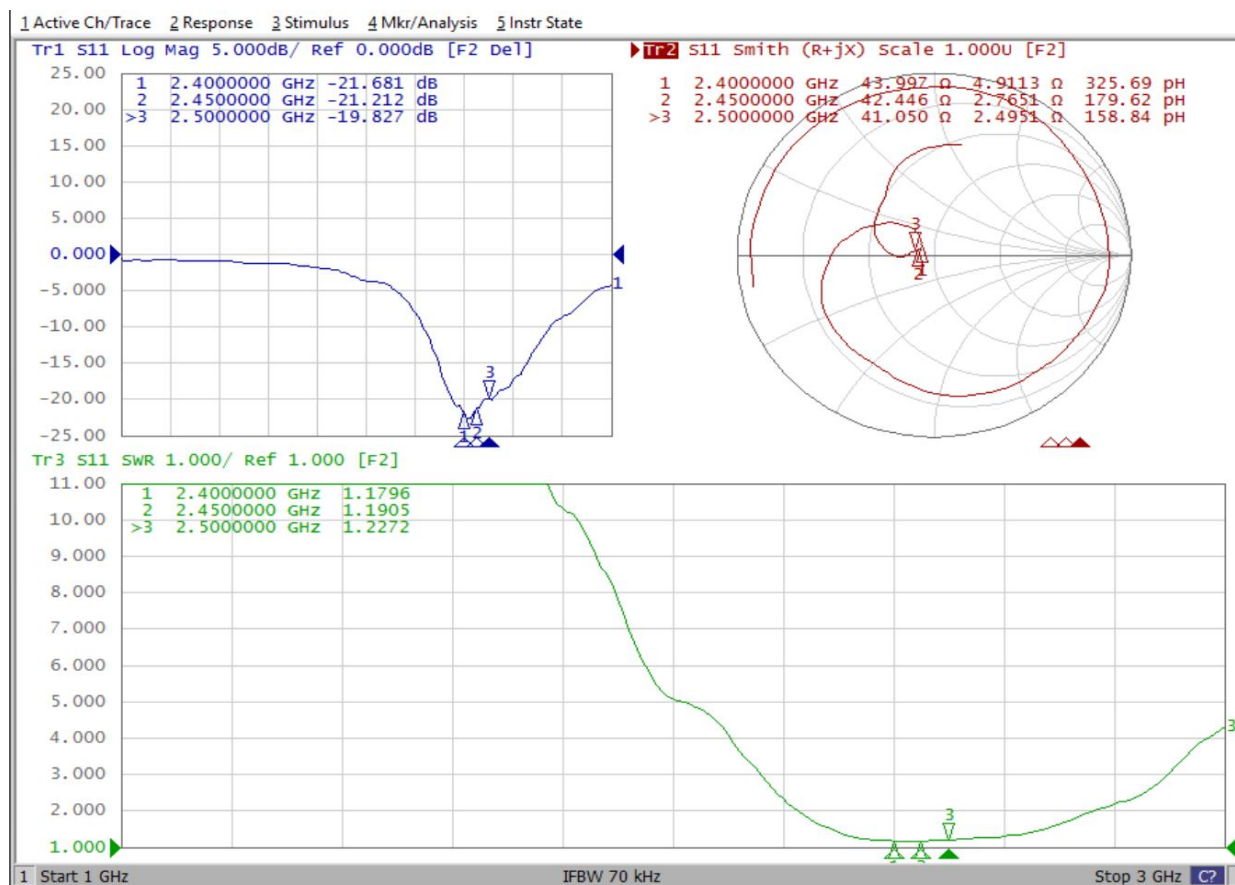
2. 综合测试仪 Comprehensive tester:

CMW500 、 MT8000A、 MT8862A

3. 3D 暗室测试系统 3D Chamber Test System:



天线阻抗Antenna Impedance: S11



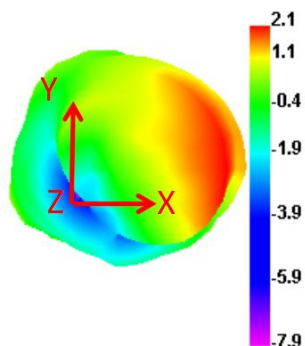
效率&增益Efficiency & Gain:

Freq (MHz)	Effi (%)	Effi (dB)	Peak Gain (dBi)
2400	54.77	-2.61	2.14
2410	54.68	-2.62	1.92
2420	55.12	-2.59	1.79
2430	55.53	-2.55	1.81
2440	55.74	-2.54	1.97
2450	56.12	-2.51	2.02
2460	55.79	-2.53	1.86
2470	55.23	-2.58	1.96
2480	54.49	-2.64	1.84
2490	54.65	-2.62	1.89
2500	53.15	-2.74	1.74

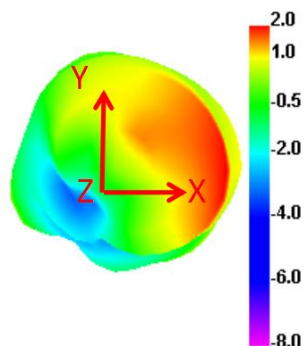
avg. 55.02

天线3D&2D方向图Antenna 3D & 2D pattern:

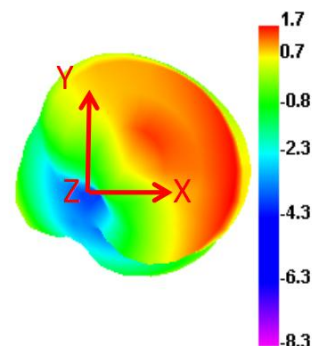
2400.000MHz



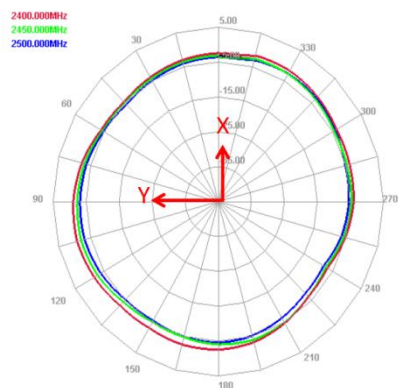
2450.000MHz



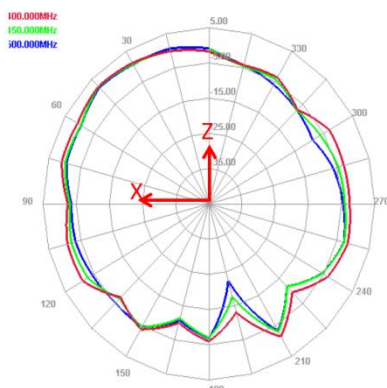
2500.000MHz



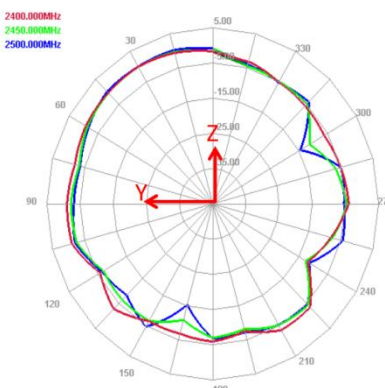
Horizontal



E1 Face



E2 Face



OTA:

BR	信道	TRP	TIS	TX	RX
	0	6.18	-93.25	8.6	-94
	39	5.74	-93.13	8.3	-94
	78	5.63	-93.08	8.2	-94

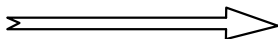


成品名称： FLIP 7天线

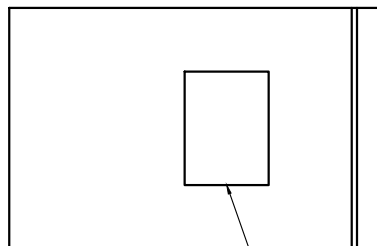
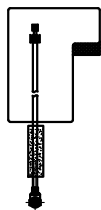
版本： A

客户：

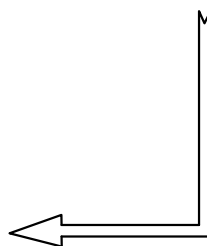
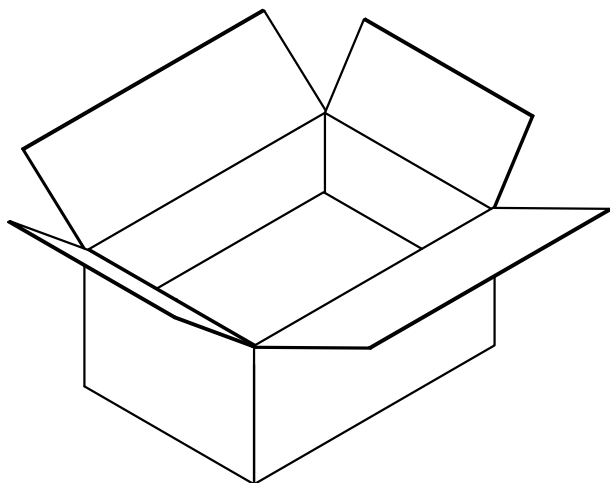
一： 成品天线



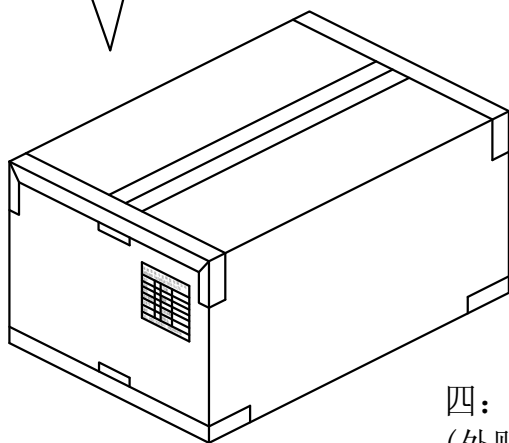
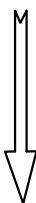
二： 装袋，每PE袋装100PCS产品.



标贴



三： 装箱 (以实际包装为准)。



四： 封箱，外箱贴我司生产标签
(外贴RoHS、无铅等标识)。

制作： 梅海金

审核： 张辉