

APPROVAL SHEET

Customer Name APPOTRONICS Co., Ltd

Product Model E8

Customer P/N

SouthstarP/N N12-6560-R0A

Production date 2020-03-24

Sample Version Version A

Southstar		
FICTION	DQE	R&D
Customer		
PUR	QC	R&D

Manufacturer: SHENZHEN SOUTH STAR TECHNOLOGY CO.,LTD

Address-SZ: 8.10.16F, Building C6, Hezhou Hengfeng Industrial City, Xixiang,
Bao'an District, Shenzhen.

Address-SH: 103B, Building 10, Lane 198, Zhangheng Road, Zhangjiang Gaoke,
Shanghai.

TEL: 0755-27474071 FAX: 0755-29976316

Version	Date	Change Description	NOTE
Rev. 01	2020. 03. 24	First Edition	

The basic parameters

A. Electrical Characteristics	
Frequency	2400MHZ~2500MHZ 5150MHZ~5800MHZ
VSWR	< 2
Efficiency	2.4G>45% 5.8G>50%
Impedance	50 Ohm
Polarization	Linear
Gain	2.4G<2.5dBi 5.8G<3dBi
B. Material & Mechanical Characteristics	
Material of Radiator	FPC black
Cable Type	Ø 1.13mm black
Connector Type	
Dimension	
C. Environmental	
Operation Temperature	- 20 °C ~ + 80 °C
Storage Temperature	- 20 °C ~ + 80 °C

1		2		3		4		5		6		7		8			
										Rev	Description			Date		Remark	
										A	New drawing						
A																A	
B																B	
C																C	
D																D	

技术要求:

- 标“*”尺寸为重点管控尺寸;
- 未标注尺寸依照图纸;
- 无虚焊、假焊、连锡、短路、断路等焊接不良现象;
- 所有部件需符合RoHS要求;
- 成品需全检性能。

South Star		深 圳 市 南 斗 星 科 技 有 限 公 司 SHEN ZHEN SOUTHSTAR CO., LTD													
Third Angle		Project		E8		Date		2019-03-24							
0~10 ±0.08		○ 0.02		Part Name		WiFi天线-1		Designed by		李基胜					
10~18 ±0.10		◎ 0.03		Part No.		N12-6560-R0A		Checked by		RF		邓居平			
18~30 ±0.12		⊥ 0.02		Material		/		Checked by		PE					
30~40 ±0.15		◇ 0.04		DWG No.		N12-6560-R0A		Approved by							
40~ ±0.20		Angle ±0.5°		Unit		mm		Scale		1:1		Rev		A	
Location															

No.	Part No.	Name	Specification	Amount	Remark
2	X02-****-R0A	WIFI-1/同轴线	一代端子+ ϕ 1.13mm黑色同轴线	1	
1	F03-****-R0A	WIFI-1/FPC	PI电解铜 单面板 黑色	1	

1		2		3		4		5		6		7		8	
---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--

Test Equipment & Conditions

1 Test Equipment

VSWR is tested by connecting Agilent E5071B to the mobile phone system.

2 Test Conditions

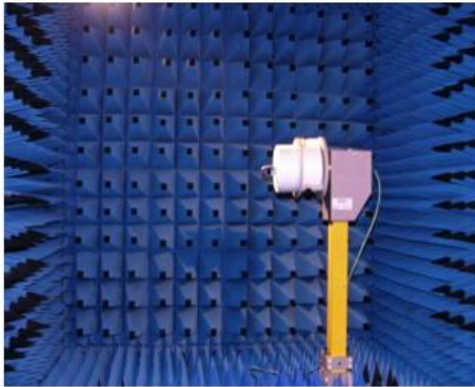
Chamber: ETS-743

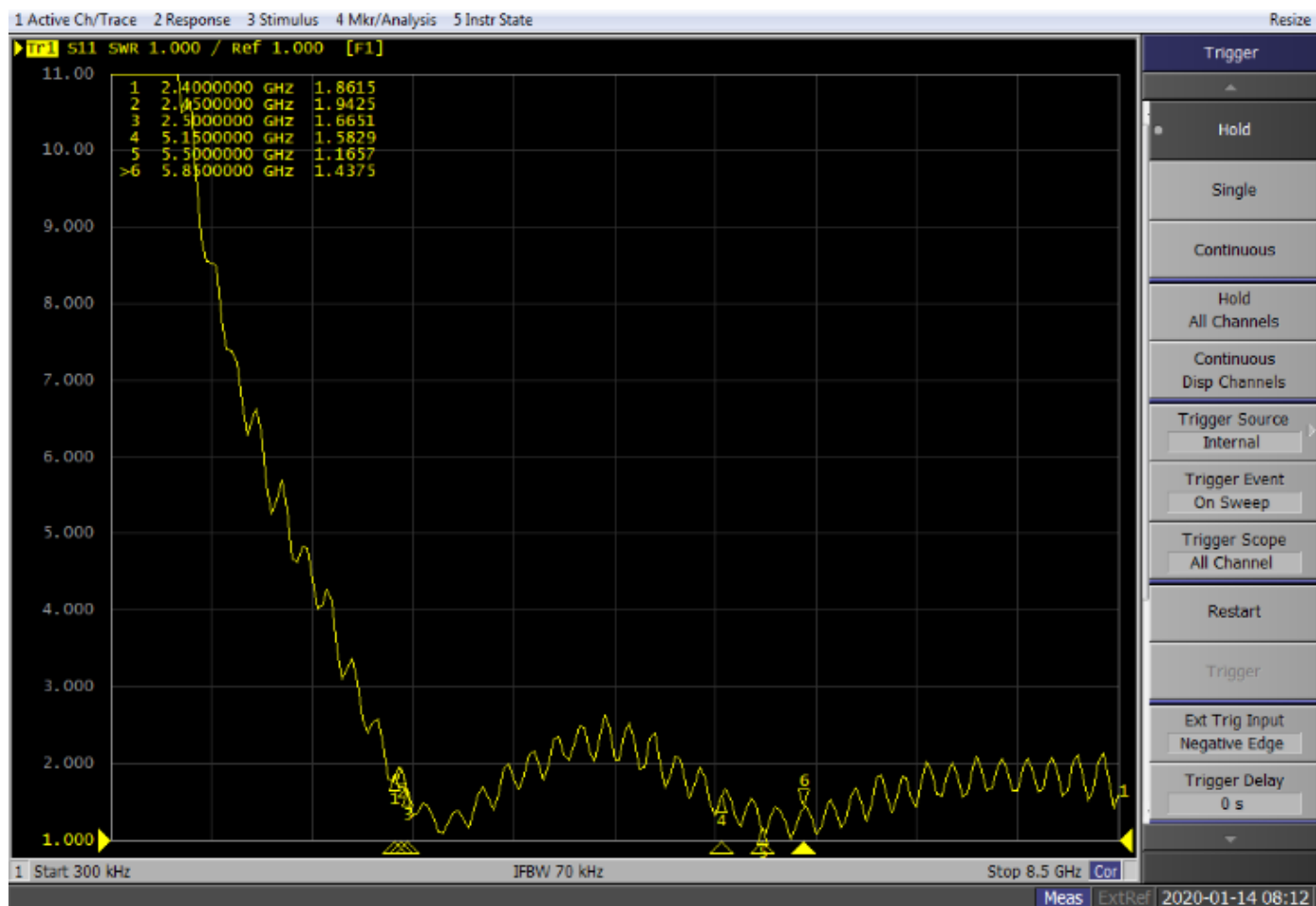
TD-SCDMA test equipment :StarPoint S6010/Agilent 8960

LTE-TDD/FDD-SCDMA test equipment: StarPoint SP8011/CMW500

WCDMA/GSM/CDMA test equipment:Agilent 8960

Passive efficiency est equipment:Agilent Technologies E5071B

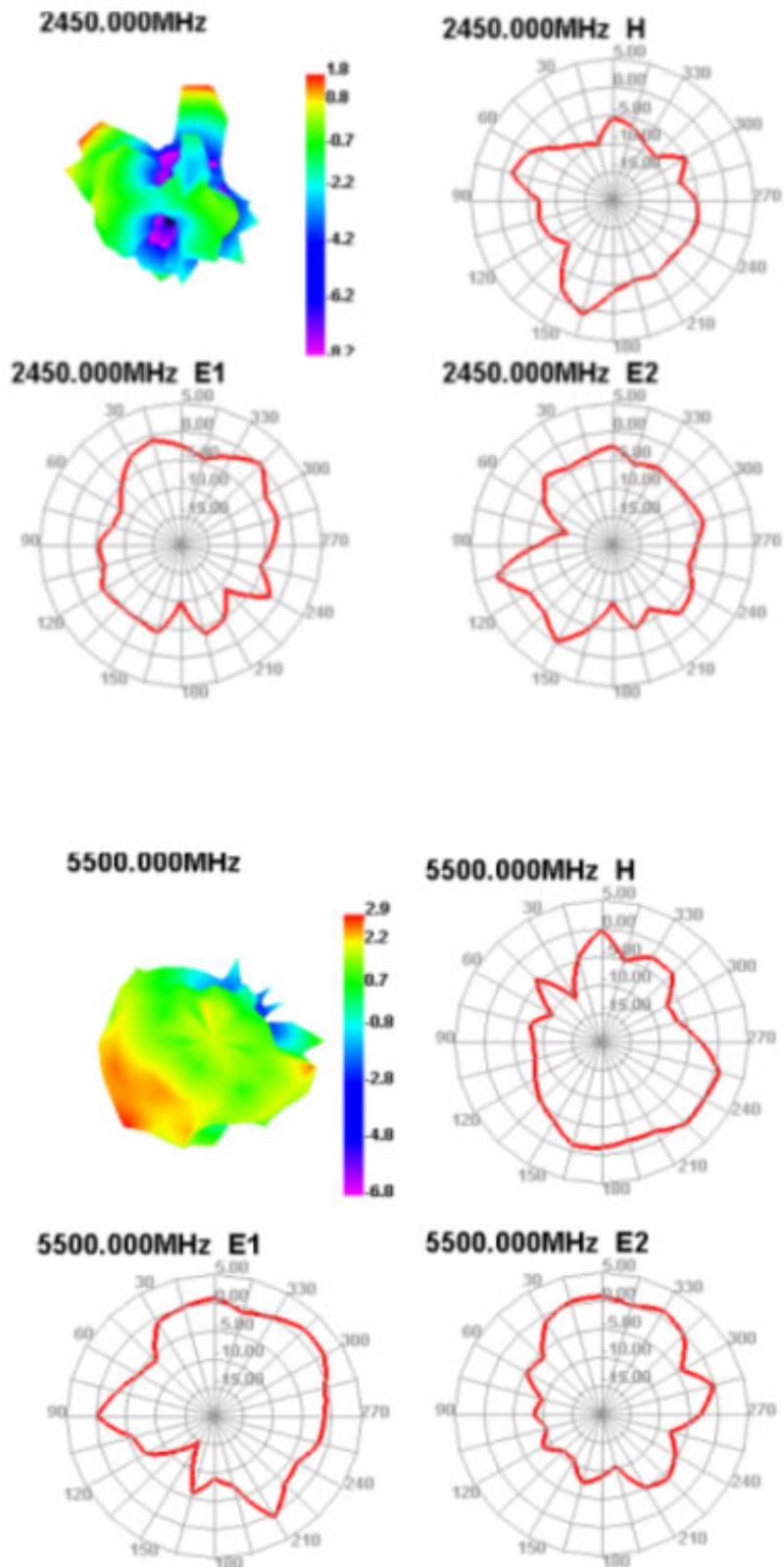


Antenna Impedance: S11 (parameter)


效率&增益(Efficiency & gain):

Passive Test For WIFI-2.4G			Passive Test For 5		
Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)
2400	46.71	1.88	5150	52.38	2.33
2410	47.56	2.47	5200	50.53	2.55
2420	47.55	2.46	5250	52.94	2.32
2430	47.28	1.66	5300	52.65	2.52
2440	45.31	2.25	5350	51.03	2.37
2450	47.29	1.83	5400	52.37	2.16
2460	45.46	2.14	5450	51.47	2.37
2470	47.28	2.22	5500	52.43	2.87
2480	47.41	1.69	5550	51.94	2.06
2490	47.12	2.31	5600	50.11	2.97
2500	46.38	2.12	5650	50.59	2.04
			5700	50.46	2.85
			5750	51.52	2.44
			5800	51.02	2.41
			5850	51.58	2.56

Antenna 3D radiation pattern



Antenna assembly drawing:

