SPECIFICATION FOR APPROVAL

Customer Name	Jin lang Technology Co., Ltd			
Customer Project	2.4G Col lector Surbaner Project Name 2.4G Col lector			
Customer P/N	200400471	Surbaner P/N	FIEXWF01059AA	
Band	2400-2483MHz			
Vers ion	AO			
	Des igner Info	ormat ion		
RF Engineer	ZhouHongl iang EE Engineer ZhouHongl iang			
ME Engineer	ZouRongka i			

	Surbaner	Approval		Customer	Approval
	Prepared By	Checked By	Approval By	Checked By	Approval By
Signature	LiuShengrong	ZengB i nghao			
Date	May 11, 2020				

Change Log					
Vers ion	Change Descript ion	Person in Charge	Approval By	Date	

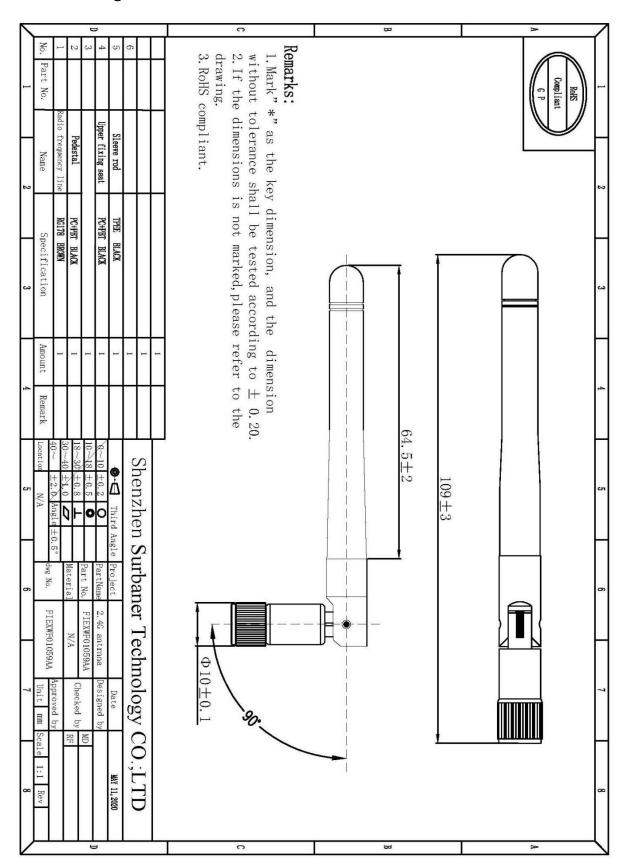


Catalogue

1.	Cover	. 1
2、	Catalogue	. 2
3、	Product drawing	. 3
4	Table of performance parameters	. 4
5 -	Electrical performance test report	. 5
6	Reliability test report	6-9
6	. 1 Maintenance	6
6	.2 Constant temperature and humidity test	7
6	.3 High and low temperature cold and heat shock	8
6	.4 Salt spray test	9
7 、	Packaging specification	10



3. Product drawing



地址: 深圳市宝安区西乡街道鶴洲社区恒丰工业域 B25 栋 2 楼 TEL: 0755-82790675 FAX: 0755-82809726

SBR Communication has possession of proprietary information provided in this report and this proprietary information shall be kept in strict confidence and not disclosed to any person or firm without the prior written consent of SBR Communication Technology.



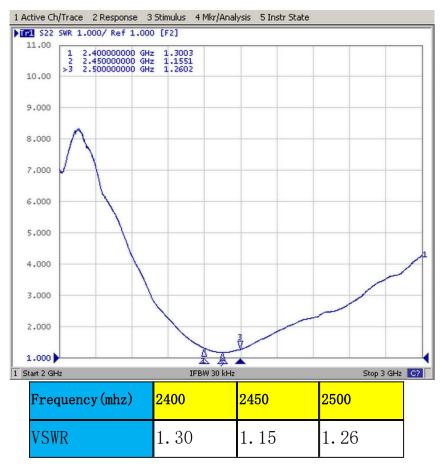
4. Table of performance parameters

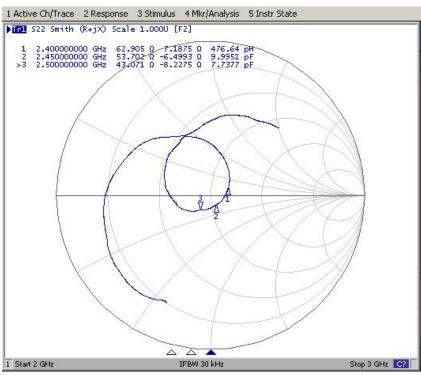
Electrical parameters				
Frequency	2400~2483 MHz			
Input impedance	50 Ω			
VSWR	€2.0			
Gain	2.75dBi			
Power capacity	1w			
Withstand voltage test	1KV			
Polarization mode	vertical			
Radiation direction	Omnidirectional			
Connector	RP-SMA-J			
Me	chanical parameters			
Total length	109±3mm			
Maintenance	4Kg			
Coaxial cable	RG178			
Salt fog	24H			
Environmental parameters				
Working temperature	-30C~65C			
Storage temperature	-30C~75C			



5 • Electrical performance test report

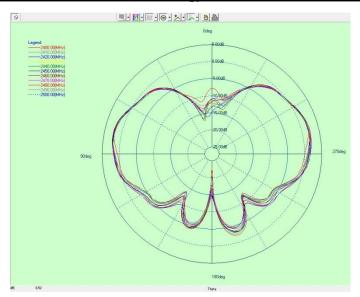
S11 Parameter

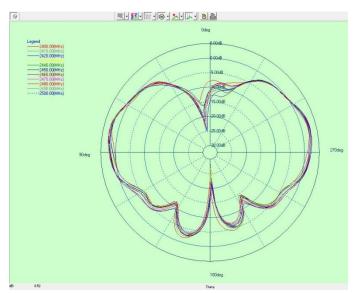


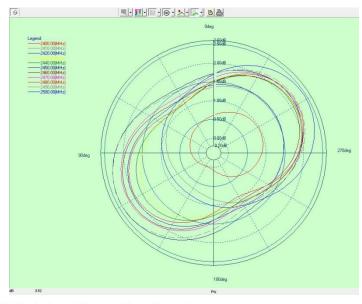


地址: 深圳市宝安区西乡街道鶴洲社区恒丰工业城 B25 栋 2 楼 TEL: 0755-82790675 FAX: 0755-82809726

SBR Communication has possession of proprietary information provided in this report and this proprietary information shall be kept in strict confidence and not disclosed to any person or firm without the prior written consent of SBR Communication Technology.







地址: 深圳市宝安区西乡街道鶴洲社区恒丰工业城 B25 栋 2 楼 TEL: 0755-82790675 FAX: 0755-82809726

SBR Communication has possession of proprietary information provided in this report and this proprietary information shall be kept in strict confidence and not disclosed to any person or firm without the prior written consent of SBR Communication Technology.



6.Gain & Efficiency

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	62%	2. 32
2410	62%	2. 26
2420	63%	2. 29
2430	65%	2. 47
2440	66%	2. 51
2450	68%	2. 41
2460	70%	2. 66
2470	69%	2.75
2480	69%	2. 54
2490	67%	2. 53
2500	65%	2. 33

6. Reliability test report

6.1. Maintenance

Test/Test ite	ems				
Product 2.4G antenna/Total length Num name/ Specifications 8.5CM, Black SMA-J Plastic head					Number of tests: 5PCS
Date of submi	ssion for	inspection:	May 11, 202	20	Completion Date: May
Test/Inspec		uipment:			
1. Temperature	Test/Inspection conditions: 1. Temperature: 18-25℃ 2. Humidity≤70%RH				
Test/Inspect	ion resu	lts: Qu a	alified		
Project condition	Mainter	nance force bety	ween connecto	or and fold	ding part≥4kgf
Number of tests	1	2	3	4	5
Test result	4.2	4.0	4.1	4.0	4.0
Remarks:					
Test/Inspection results: □ Unqualified					□ Unqualified
Tester: PengJinqin Auditor: HeCHunhui				ditor: HeCHunhui	

6. 2. Constant temperature and humidity test

Test/Test items	Constant temperature and humidity test	
Product name/ Specifications	2.4G antenna/Total length 8.5CM, Black SMA-J Plastic head	Number of tests: 5PCS
Date of submission for inspection: May 11, 2020		Completion Date: May 12, 2020

Test/Inspection equipment:

- 1. Programmable constant temperature and humidity experimental box
- 2.8753ES Network analyzer

Test/Inspection conditions:

- 1. Test at normal temperature 25 $\,^\circ\,$ C and humidity 65%
- 2.+80 $^{\circ}$ 85 $^{\sim}$ 90% RH, one cycle for 2 hours, a total of 24 hours;

Test results

Judgment criteria:

- 1. The metal surface coating shall be free of peeling, crack, wrinkle, separation, etc; Non metallic parts shall be free from discoloration, cracking, deformation, degumming and other defects;
- 2. The electrical test meets the standard requirements: the voltage standing wave ratio test is qualified

Inspection items	Before constant temperature and humidity test	After constant temperature and humidity test	Defect description	Judgment result
Appearance	The appearance shall be free of discoloration, cracking, deformation and degumming	The appearance shall be free of discoloration, cracking, deformation and degumming	Nothing	Qualified
Electrical properties	The antenna voltage standing wave ratio test is qualified	The antenna voltage standing wave ratio test is qualified	Nothing	Qualified

Test/Ins	pection results:	☑Qualified	□ Uno	qualified
Tester:	PengJinqin		Auditor:	HeCHunhui

地址:深圳市宝安区西乡街道鶴洲社区恒丰工业城 B25 栋 2 楼 TEL: 0755-82790675 FAX: 0755-82809726

6. 3 High and low temperature cold and heat shock

Test/Test i	tems	High and lo	ow temperature cycle		
Product name/ Specif	cications		/Total length SMA-J Plastic head	Number of tests: 5PCS	
Date of sub	mission for	r inspection	: May 11, 2020	Completion Da 2020	te: May 12,
Test/Inspe	ction equ	uipment:			
1. High and 1 2.8753ES Net			g damp heat box		
Test/Inspe	ction cor	nditions:			
-30°C (2H)	75°C (2H)	, 6 cycles fo	or 24 hours		
		Te	st results		
Judgment crit	eria:				
1. The metal surface coating shall be free of peeling, crack, wrinkle, separation, etc; Non metallic parts shall be free from discoloration, cracking, deformation, degumming and other defects; 2. The electrical test meets the standard: the voltage standing wave ratio test is qualified.					
Inspection items	temperatu	gh and low re cold and shock test	After high and low temperature cold and thermal shock test	Defect description	Judgment result
Appearance		nce shall be scoloration, deformation	The appearance shall be free of discoloration cracking, deformation and degumming	, Nothing	Qualified
Electrical properties The antenna voltage standing wave ratio standing wave ratio test test is qualified is qualified			Qualified		
Test/Inspection results: $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$					ed
Tester: PengJinqin Auditor: HeCHunhui			hui		



Salt spray test

Test/Test items	Salt spray test					
Product name/ Specifications	2.4G antenna/Total length 8.5CM, Black SMA-J Plastic hea	Number of tests: 5PCS				
Date of submission fo	or inspection: May 11, 2020	Completion Date: May 12, 2020				
Test/Inspection eq	uipment:					
1.HL-60-SS Salt spray t	ester					
Test/Inspection co	nditions:					
1. The temperature in the	e salt spray box is35±2℃; La	boratory temperature22∼30℃				
	ion rate of the laboratory temp ntration of 50 + 10g/L and pH v	perature was 24H 80cm after spraying value of 6.5/7.2				
Test/Inspection res	sults: Qualified					
Sample number	Evaluation grade	Defect description				
1	Qualified					
2	Qualified					
3	Qualified					
4	Qualified					
5	5 Qualified					
Test/Inspection resul	□ Unqualified					
Tester: PengJinqin Auditor: HeCHunhui						

PACKING CRITERION

Product item No: FIEXWF01059AA

Product specification: 2.4G antenna/Total length 8.5CM, Black SMA-J Plastic head

_, Label ing requirements

Inner label About 10cm long and 6cm wide

Demander	*******		
Supplier	Shenzhen Surbaner Technology CO.;LTD		
Material code	*******		
Product Name	***	examination clerk	**
Quantity / unit	****	Date	**
Remarks		*****	

External label About 10cm long and 6cm wide

Demander	*******			
	Shenzhen Surbaner Technology			
Supplier	CO.;LTD			
Material code	*********			
Product Name	****	examination clerk	**	
Quantity / unit	****	Date	**	
Remarks		*******		

二、Encasement requ irements

Job descript ion:

1. Inner packaging:

One bag of 50 pcs;

PE袋

2. Outer packaging:

2000 PCs one box

Matters need ing attention:

- 1. Whether to add partition board and pearl cotton;
- 2. Labeling, such as RoHS, etc;



纸箱

