

SPECIFICATION FOR APPROVAL

Customer Name	Shang Ji Technology Co. , Ltd.							
Customer Project Name	SC800	Surbaner Project Name	SC800					
Customer P/N	A86020058	Surbaner P/N	3160-170-00467-V01					
Band	2400-2500MHz							
Version number	AO							
	Designer Info	ormation						
RF Engineer	LinDeyou	R&D Diretor	LinDeyou					
ME Engineer	ZouRongka i							

	Surbaner Approval	Customer Approval			
	Prepared By Checked By	Approval By	Checked By	Approval By	
Signature	LiuShengrong 2022 41 DaDeyou	ZengBinghao			
Date	Dec 27, 2022 Dec 27, 1202	2 Dec 27, 2022			

Change Log										
Version	Change Description	Person in Charge	Approval By	Date						

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Catalogue

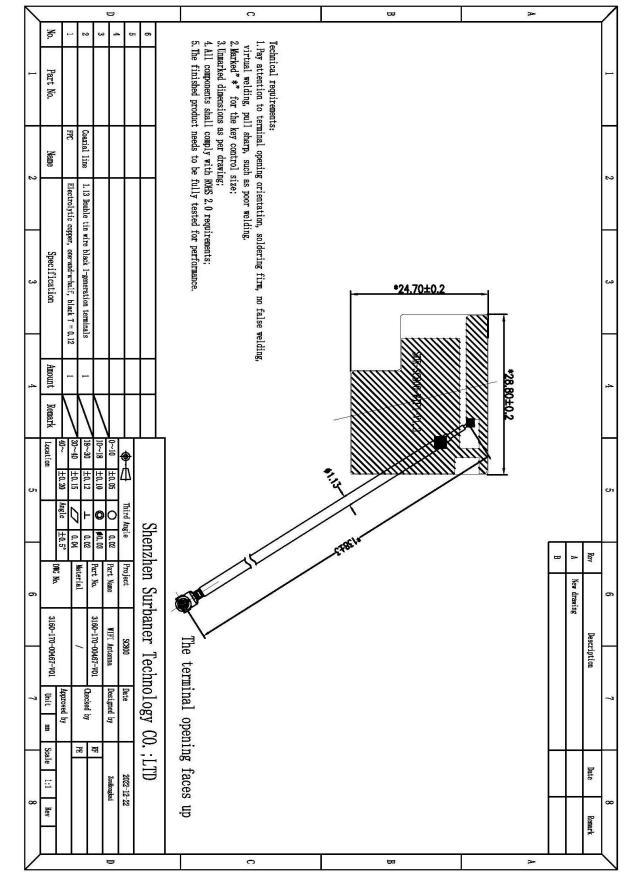
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Drawing or Product Image



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Sample Dimensions Test Report

	▲			▲				
Customer Name	Shang Ji	Customer P/N	A86020058	Surbaner P/N	3160-170-00467-V01			
Test Date	2022/12/27	Sample Qty.	3	Inspector	ZengXingrong			
Dimension No.	Standard	Sample 1	Sample 2	Sample 3	Pass/NG			
①FPC length	28.80±0.2mm	28.81	28.80	28. 79	Pass			
②FPC Width	24.70±0.2mm	24. 71	24. 70	Pass				
③FPC Thickness	0.12±0.05mm	0. 12	0. 121	0. 12	Pass			
④Long line	138±3mm	138. 1	138	138	Pass			
(5)								
6								
(\overline{O})								
	Conclusion							
Inspector & Date	ZengXingrong 2	022/12/27	Approval &D ate					

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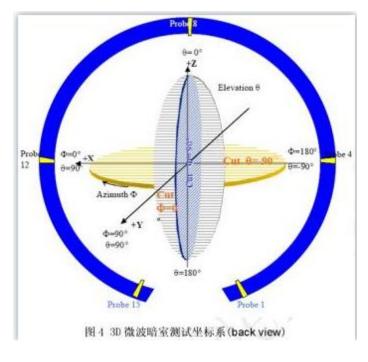
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RF Performance Test Report

Customer Name	Shang Ji	Project Name	SC800	Surbaner P/N	3160-170-00467-V01	
Band	2400-2500 M Hz	Test Date	2022/9/26	Inspector	LinDeyou	

Antenna Test Equipment Introduction

Test of antenna input characteristics using **Agilent E5071C and Agilent 5062A** vector network analyzer; The radiation pattern of the antenna are tested using the Satimo starlab 3D near field Anechoic Chamber, and the instrument is used to agilent8960 E5515 and Agilent E4438C. The test coordinates of the darkroom are as follows:



1.S11 Parameter-VSWR

Measuring Method is a 50 Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the S11 parameter, Keeping this fixture away from metal at least 20cm.

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S11 Parameter-VSWR-WIFI



Frequency(M Hz)	2400	2450	2480	2500
VSWR	1.20	1.13	1.35	1.61

2.Gain & Efficiency

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)		
2400	38.5%	1.05		
2410	39.5%	0.75		
2420	40.2%	0.78		
2430	41.4%	0.69		
2440	42.9%	0.88		
2450	42.1%	1.11		
2460	43.0%	11		
2470	<mark>42.3%</mark>	1.34		
2480	<mark>42.9%</mark>	1.22		
2490	42.8%	1.14		
2500	42.7%	1.32		

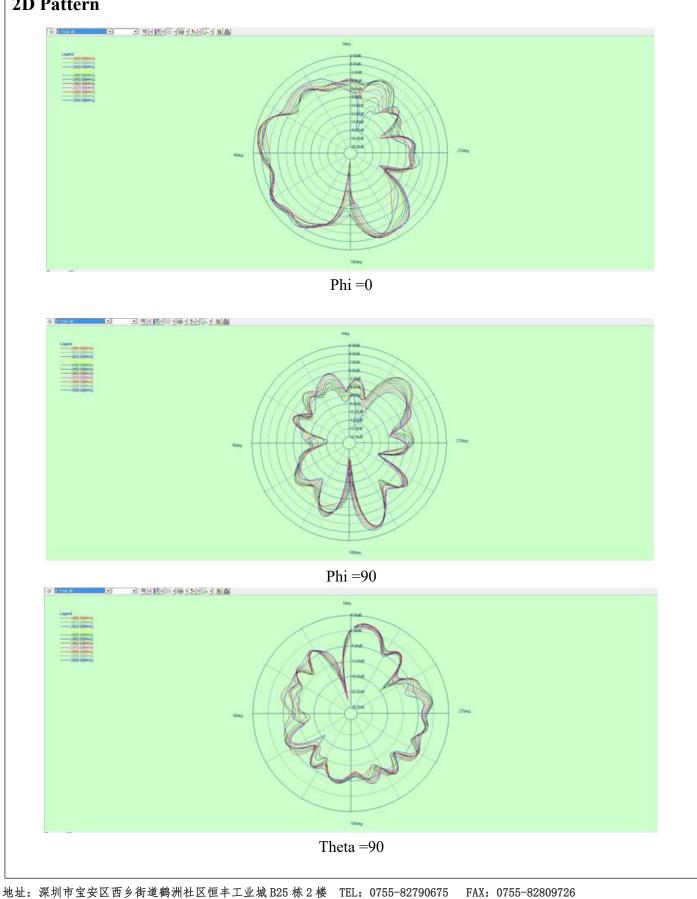
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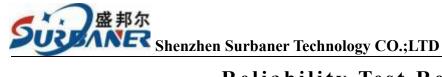


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3.0TA

Test Equipment		R&S CMW270								
Test Condition		3D chamb	er							
Band	Wireless Protocol	Channel	TRP(dBm)	TIS(dBm)						
		1	14.47	-78.98						
	802.11 b/11Mbs	6	14.78	-81.95						
		11	15.96	-81.89						
		1	8.55	-65.55						
WIFI	802.11 g/54Mbs	6	9.24	-65.51						
		11	13.35	-65.72						
		1	7.21	-62.31						
	802.11 n/65Mbs	6	7.81	-62.47						
		11	10.23	-62.35						

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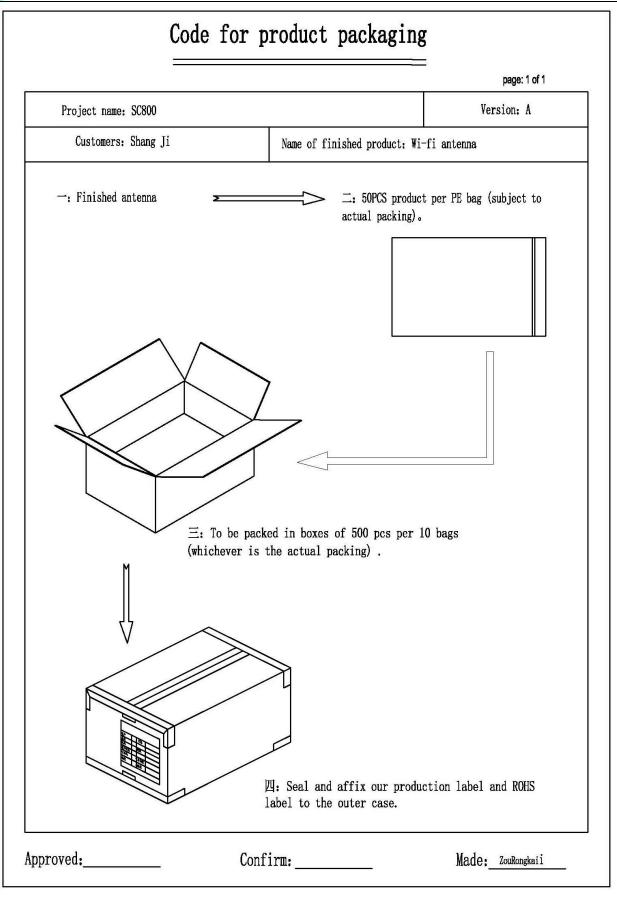


Reliability Test Report

Customer Name	Shang Ji	Customer P/N	A86020058	Surbaner P/N	3160-170-00467-V01		
Test Date	2022/12/26	Sample Qty.	3	Inspector	HeChu	ınhu i	
Test Item	Requirement	testing equipment	Sample 1	Sample 2	Sample 3	PASS/NG	
High temperature storage	After 24H exposure at70°C,the electrical performance was normal after 2H recovery	Constant temperature and humidity box	ок	ок	ок	Pass	
Cryogenic storage	Exposed to -30°C for hours, the electrical properties were normal after 2 hours of recovery	Constant temperature and humidity box	ок	ок	ок	Pass	
Work in high temperature	The electrical performance is normal after 24 hours of electrification at 60°C	Constant temperature and humidity box	ок	ОК	ок	Pass	
Low temperature operation	Under the condition of -20°C,the electrical performance is normal after 24 hours	Constant temperature and humidity box	ОК	ок	ок	Pass	
Salt spray tester	(5 + 0.5)% nacl, pH 6.5-7.2, temperature of the test chamber (35 ± 2) ° C ☑24H □48H	Salt spray tester	ок	ок	ОК	Pass	
Riveting and drawing force of connector	0.81 Diameter≥8N 1.13 Diameter≥10N RG174 Diameter≥60N RG178 Diameter≥40N	Push-pull meter	≥10N	≥10N	≥10N	Pass	
	Con	clusion				Pass	
Inspector & Date	He Chunhui 2022/12/27		Approval &D ate			1	

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Product ROHS ingredient declaration table

		Levels of hazardous substances (PPM)												
Product name	Uniform material		Pb	Cd	Hg	Cr6+	PBBs	PBDEs	DEHP	BBP	DBP	DIBP	HS test report no	HS test report date
		Text ink	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ETR22501510	22/5/17
		3M Glue	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	CANEC2200386501	22/1/12
		Goldfinger	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	A2220136788101001E	22/4/15
	FPC	LPI-HF	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	SHAEC2202460504	22/2/21
		Anti-weldingink	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ETR22705905	22/8/5
Wi-fi		Reinforcement	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	A2220085983102002	22/3/14
antenna		Antioxidants	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	A2220207344101001E	22/5/30
		Fluoride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NGBML2200124301	22/1/27
	Wire	Tinned copper wire	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	SHAEE22000472905	22/8/10
		Black masterbatch	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	HKTEC2202547207	22/6/10
	Termin	Tin phosphor bronze	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	CANEC2201952008	22/2/18
		Plastic	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ETR22800771	22/8/10
	al	Gold plated	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	A2220404860101001C	22/9/17

Install Wizard or Other

The installation process:

Take the 1PCS product, tear off the release paper on the back of the FPC by hand, then align the position of the FPC locating hole with the position of the housing locating hole (locating rib position or locating line), and attach it to the housing smoothly, as shown in the following figure:

Points to note during installation:

☑Put It on the antenna to ensure that the FPC is completely attached to the shell;

The positioning hole is aligned with the position of the housing positioning column;

 \blacksquare The FPC edge is aligned with the shell edge;

- ☑ Please align the terminal first and then fasten it vertically when the terminal is fastened to the PCBA end of the motherboard;
- When dismantling the antenna terminal, tools (such as special crowbar) should be used to vertically tilt the terminal, not directly pull the wire to dismantle.