

Shenzhen SKYLink Technology Co.,Ltd

Antenna Specification for Approval

	Customer Nam	e:			
	Product Name	: Antenna			
	Part NO.:	CS11			
Write By:		Damon Cui			
	Issued Date:	2024. 11. 11			
Customer					
R&D Dept		Business Dept	Approved By		
SKYLink					
R&D Dept		Engineer Dept	Approval		



Specification Summary

A. Electrical Characteristics				
Frequency	2400MHz ~2500MHz			
Return Loss	<-9.0 dbi			
Efficiency	>20%			
Peak Gain	1.2dbi			
Impedance	50 Ohm			
Polarization	Line			
	B. Material & Mechanical Characteristics			
Material of Radiator	Cu			
Cable Type	1			
Connector Type	1			
Dimension	At Attachment			
Heat-durability	280±5°C,10sec.			
	C. Environmental Characteristics			
Operation Temperature	- 20 °C ~ + 80 °C			
Storage Temperature	- 30 °C ~ + 85 °C			



Test Equipment & Conditions

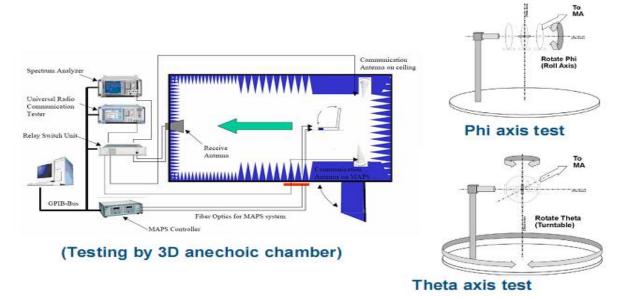
1. Network Analyzers:

Agilent 8753D 5071B

Communications Test Set:

Agilent E5515C CMW500

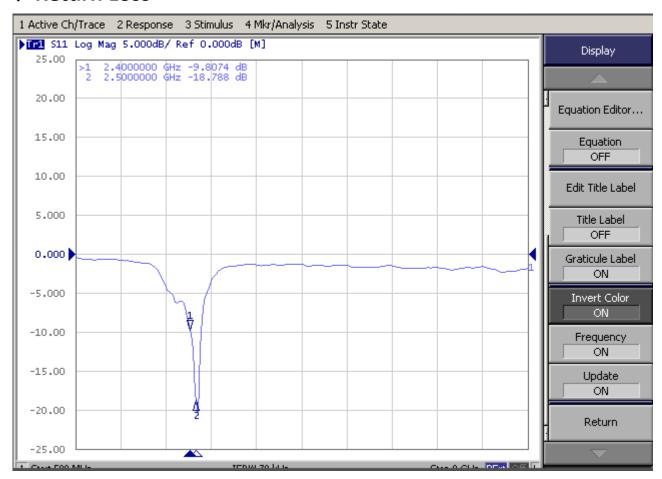
2. 3D Chamber Test System







Return Loss

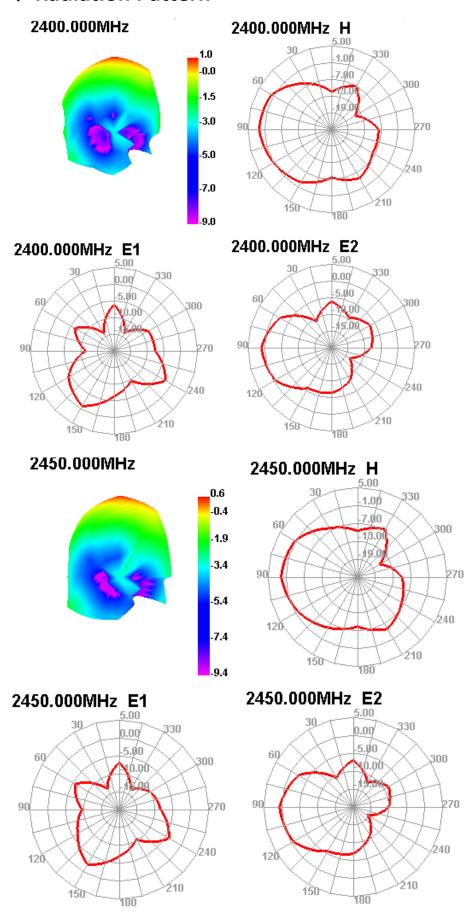




♦ Gain & Efficiency

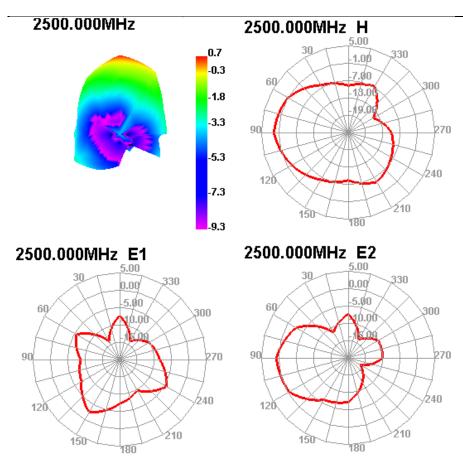
Freq	Effi	Gain
(MHz)	(%)	(dBi)
2400	30. 55	0. 97
2410	30. 92	1. 11
2420	30. 95	1. 21
2430	30. 17	1. 14
2440	28. 51	0.94
2450	25. 77	0. 57
2460	25. 22	0. 55
2470	24. 93	0. 56
2480	25. 45	0. 7
2490	25. 91	0.83
2500	24. 42	0.66

◆ Radiation Pattern



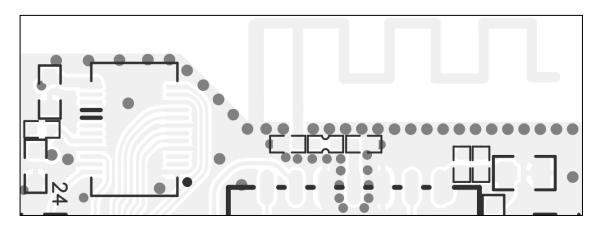
R & D Center: Room D 5th Floor Building L,Block E ,71 Baocheng District ,Baoan District ,Shenzhen Factory: 6 Floor,GangHuaXing Industrial Park,Rongshu Road 2nd ,Fuyong,Baoan ,shenzhen Email:damoncui@tllskylink.com







♦ Antenna Picture





♦ Reliability Test

	Test Item	Test condition	Equipment	Specification	Result
1	Low Temp. Storage Test	and humidity is 65% for one hour, then step-down	Temp.&Humi. Tester	No material deformation is allowed. Electronic Performance is ok .	PASS
2		Temperature: 85℃ Humidity: 85% RH Time:48hrs Test condition: Placing antenna in a Low/High	Temp.&Humi. Tester	No material	PASS
	High Temp./High	Temperature Chamber, keep the temp is 25 $^{\circ}\! \mathbb{C}$		deformation is allowed.	
	Humid	and humidity is 65% for one hour, then step-up the temp. to 80 $^{\circ}\mathrm{C}$ and the humidity up to 85% in one			
		hour, store antenna for 44 hours; step-down temp		Electronic Performance	
		to 25 $^{\circ}\!$		is ok .	



3	Salt-Spray 6 pray Test	Placing antenna in the Salt-Spray Tester ,set the	Salt-Spray Tester		
		test condition ,Temp: 35 $\pm 2{}^\circ\!$		No color change	PASS
		NaCl salt spray :5 ± 1 %.PH value :6.5~7.2 Test		No appear rusting	FA33
		time:24hours			