

Shenzhen Tianlianling Technology
Co., LTD

Shenzhen SKYLink Technology Co.,Ltd

Antenna specification is
acknowledged

No.: **SLSOA2021061801**

customer name: Hui source wound new

project name: X30

Product description: WF113A copper pipe welding 1.13 black coaxial,
line length 80mm, one generation terminal

Product material number: WF113A.C113.80B.121100.1

edition of books: V1.0

date: 2021-05-25

clie

This admission
is strictly
prohibited from
modification

engineering	purchase	admit

Day lian ling

research and development	engineering	examine and verify

Address: 5D, 5 / F, Building, L, 26, Lane 2, Liuxian Road, District 71, Baoan, Shenzhen
Fax 0755-85263741

Specification overview

electrical characteristics	
frequency	5150MHz~5850MHz
voltage standing-wave ratio	<3.0
productiveness	>45%
gain	3.3dbi
impedance	50 Ohm
Polarization mode	linear polarization
Materials and the mechanical properties	
material	Copper pipe + RF line
Wire type	1.13mm
Terminal type	Generation end
Drawing size	See drawings for details
Silk printing way	White characters on a black floor
environmental characteristics	
storage temperature	-30°C~+85°C
FPC welding temperature	280±5°C Imping time: 10 seconds
RF wire welding temperature	320 ± 5°C for 2-3 ses

● Test the equipment and the conditions

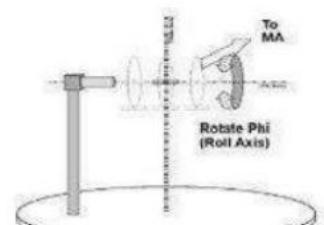
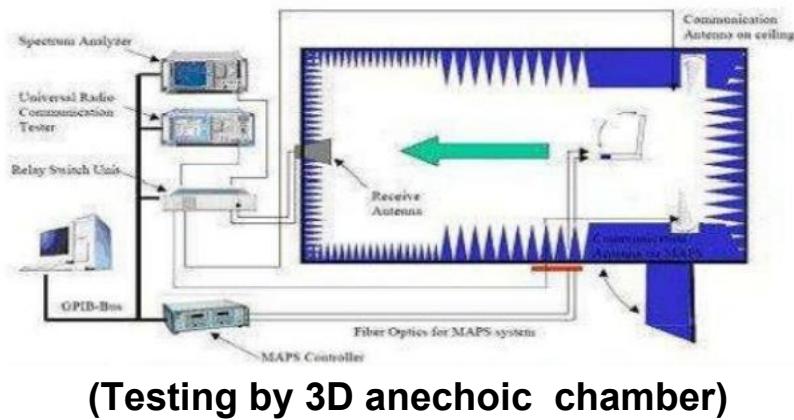
1. Network analyzer:

Agilent 8753D Agilent 5071B

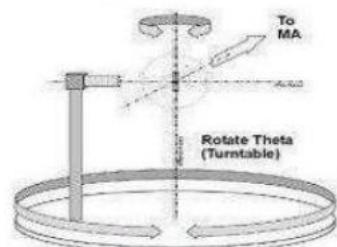
Communication test equipment:

Agilent E5515C R&S CMW500

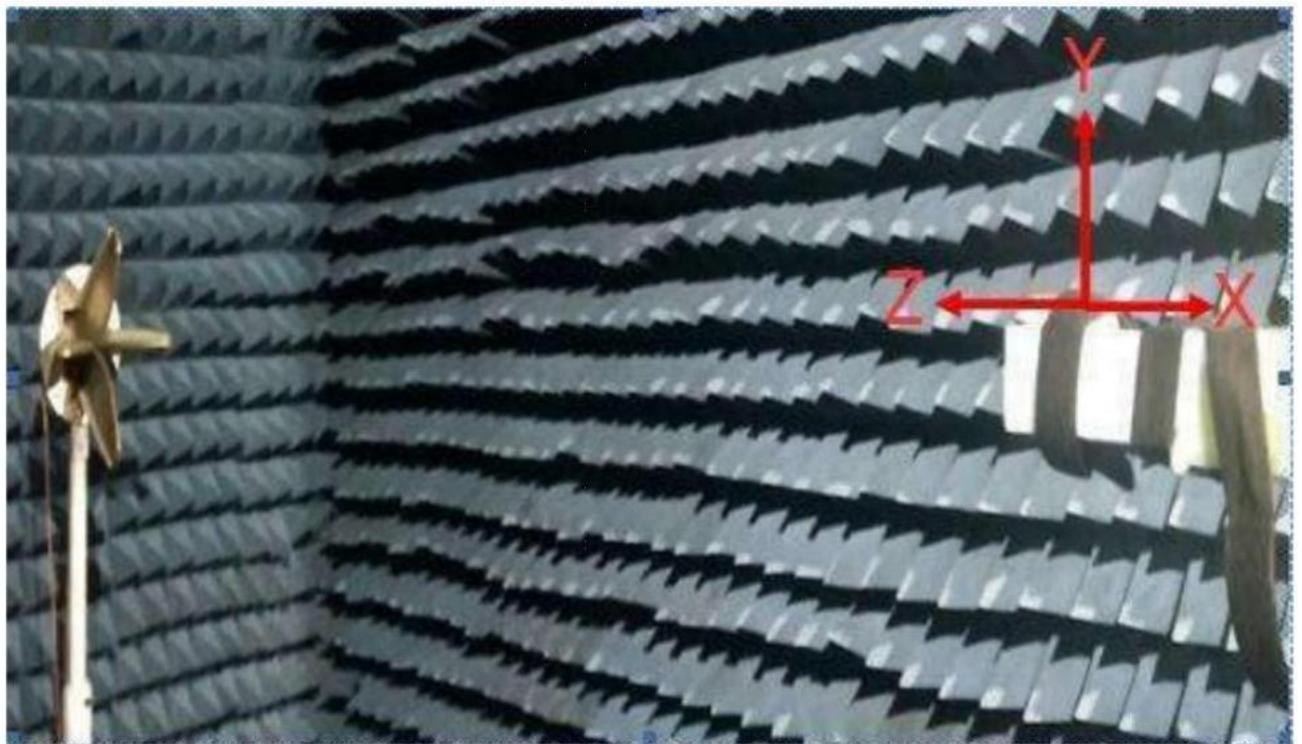
2. 3D Test system



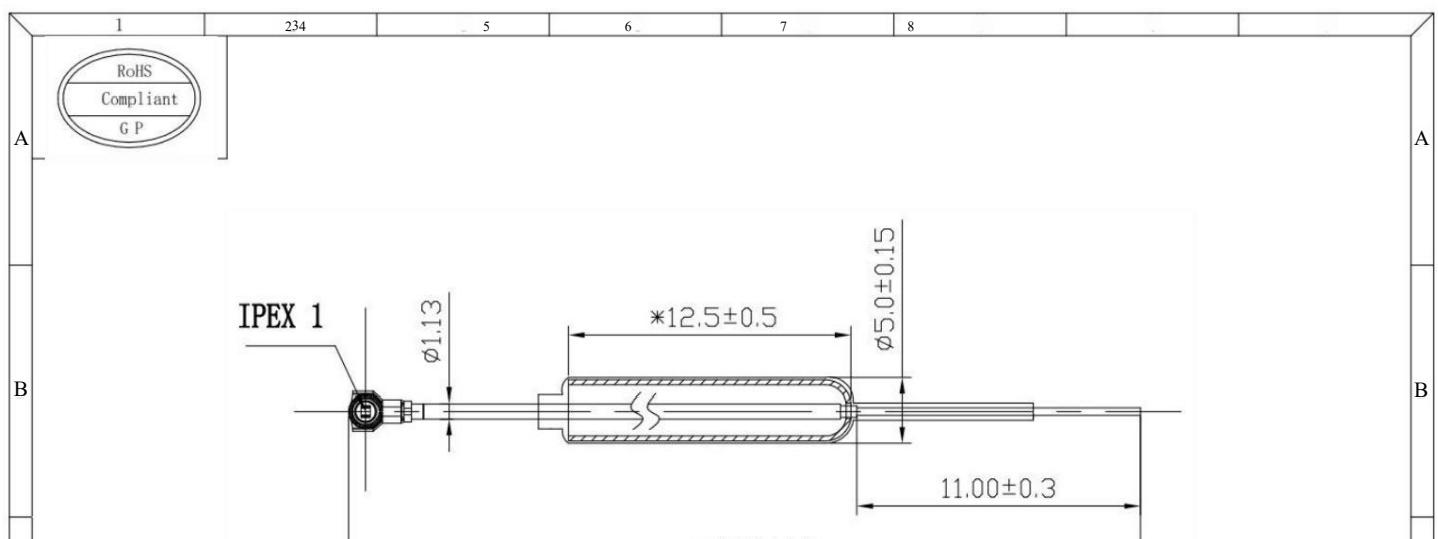
Phi axis test



Theta axis test

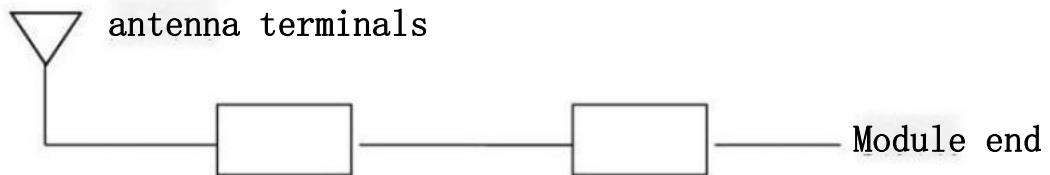


Made by Autodesk Education Edition products



				Third Angle		Project		Date		2021-05-28	
D	Rev	0~10	± 0.05	0	0.02	Part Name	Designed by				
		10~18	ten. 10	\odot	.03		00.1		MD		
A	New	30~40	$+0.12$	$+0.02$	0.04	Part No. W	Checked by		RF		
	drawing	40	± 0.15	0.04	Shi 0.5		Approved by				
Description				Date	Remark	Location	DWG No.	Unit	mm	Scale	: 1 Rev A
1	2	3	4	5				6	7	8	

● building-out circuit



The original
motherboard matching
circuit is unchanged

● Passive

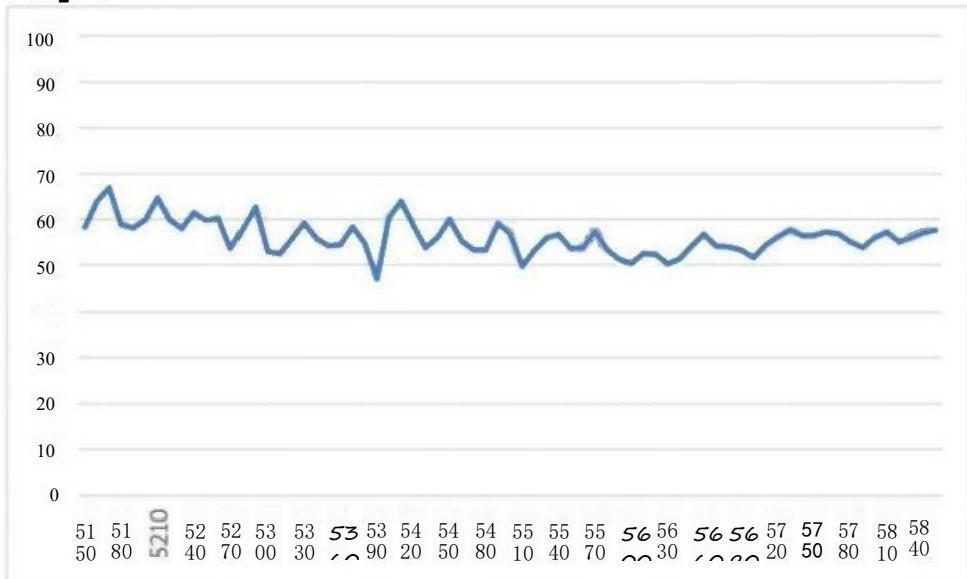
Test Report

◆ S11 Fig

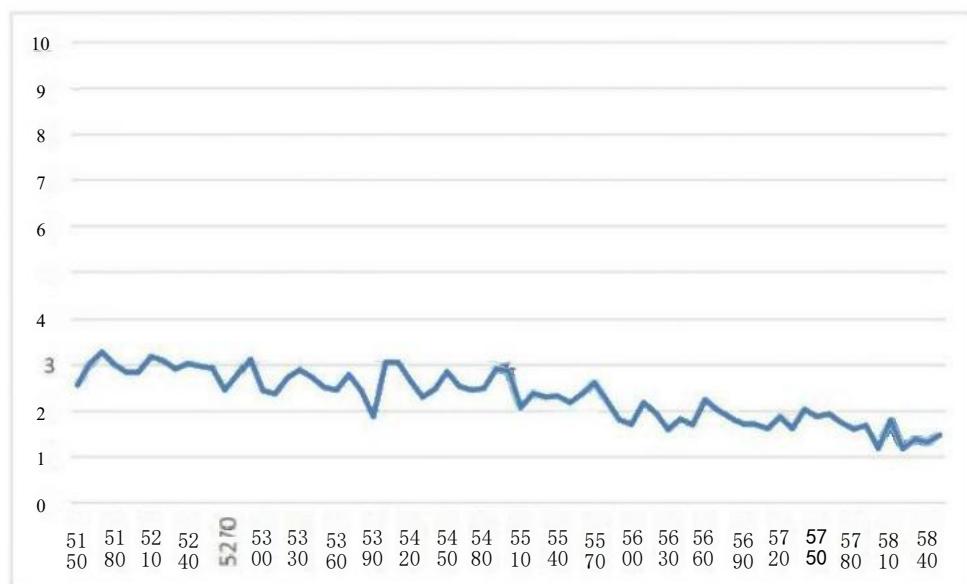


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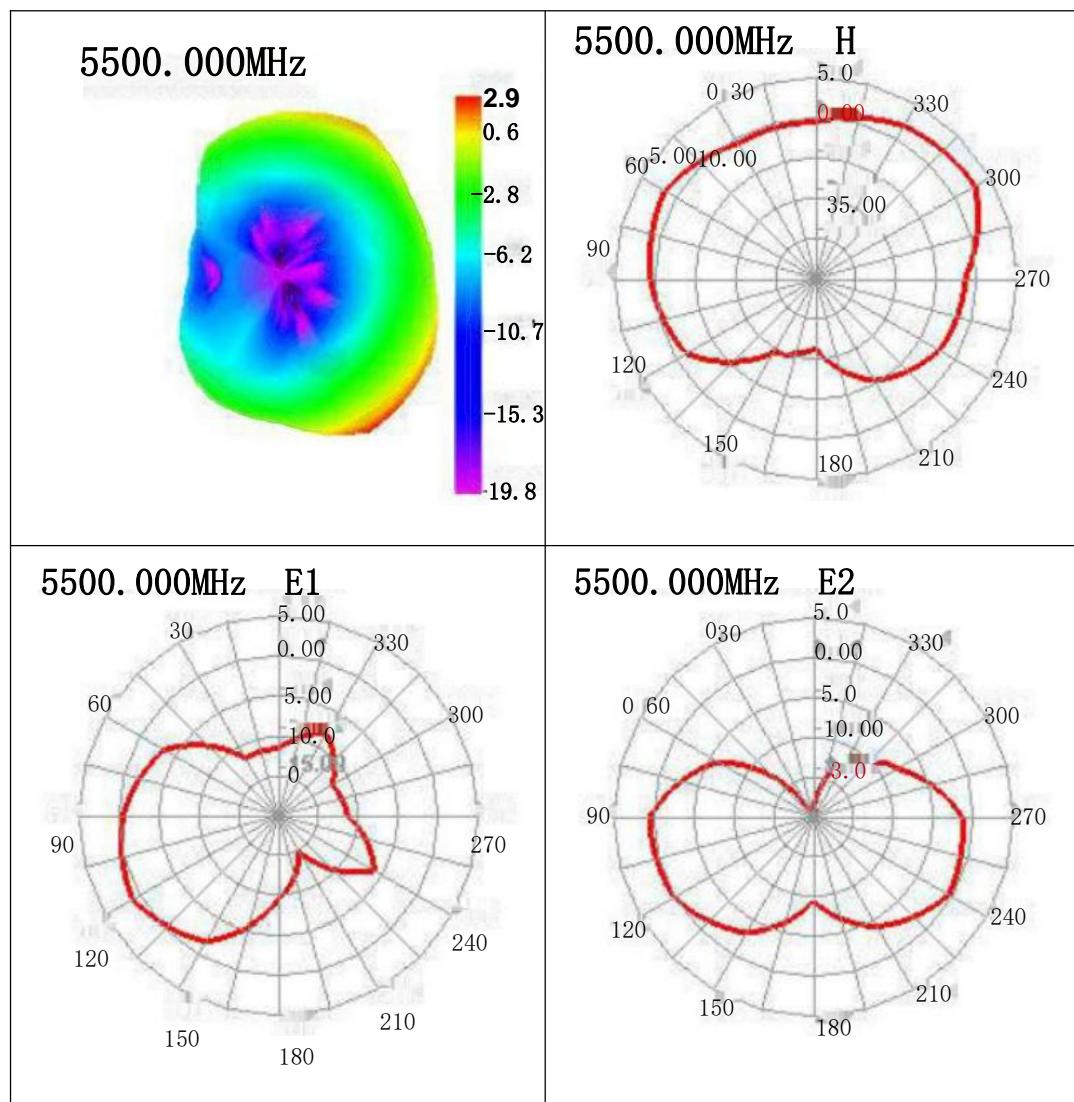
◆ productiveness



◆ gain



antenna pattern



◆reliability test

test item		test condition	equipment	standard	bear fruit
1	Low temperature test	<p>Temperature: -30°C, humidity: 65%, time: 48 hours Test conditions:</p> <p>Place the antenna in the high and low temperature test box at 25°C and humidity at 65% for 1 hour, then reduce the temperature to -30°C for 44 hours, and then heat up to 25°C for 2 hours</p>	High and low temperature test machine	Not allowed for material deformation with good electronic properties	pass through
2	High temperature test	<p>Temperature: 85°C, Humidity: 85%, time: 48 hours Test conditions:</p> <p>Place the antenna in the high and low temperature test box, keep the temperature at 25°C, keep the humidity at 65% for 1 hour, then within 1 hour, raise the temperature to 80°C, humidity at 85%, keep for 44 hours, then reduce the temperature to 25°C for 2 hours.</p>	High and low temperature test machine	Not allowed for material deformation with good electronic properties	pass through
3	Salt Spray Test	<p>Salt Spray Test:</p> <p>Place the antenna in the salt spray test machine to set up the test environment:</p> <p>Temperature 35 ± 2°C</p> <p>humidity 85%</p>	Salt mist test machine	No color change, no rust appeared	pass through

		<p>Salt spray spray: 5 ± 1% PH value 6.5~7.2 Time: 24 hours</p>			
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