

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 coaxis, 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℃~+85℃
FPC welding temperature	280±5℃Imping time: 10 seconds
RF wire welding temperature	320 ± 5℃ for 2-3 ses

● Test the equipment and the conditions

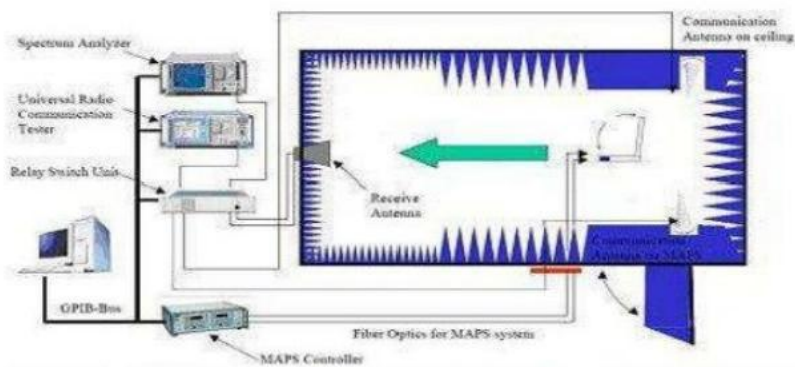
1. Network analyzer:

Agilent 8753D Agilent 5071B

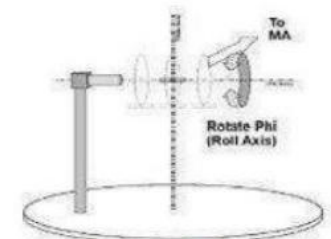
Communication test equipment:

Agilent E5515C R&S CMW500

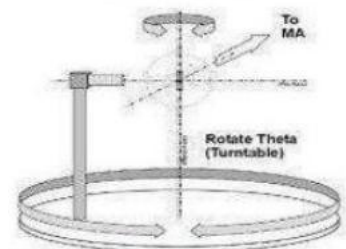
2. 3D Test system



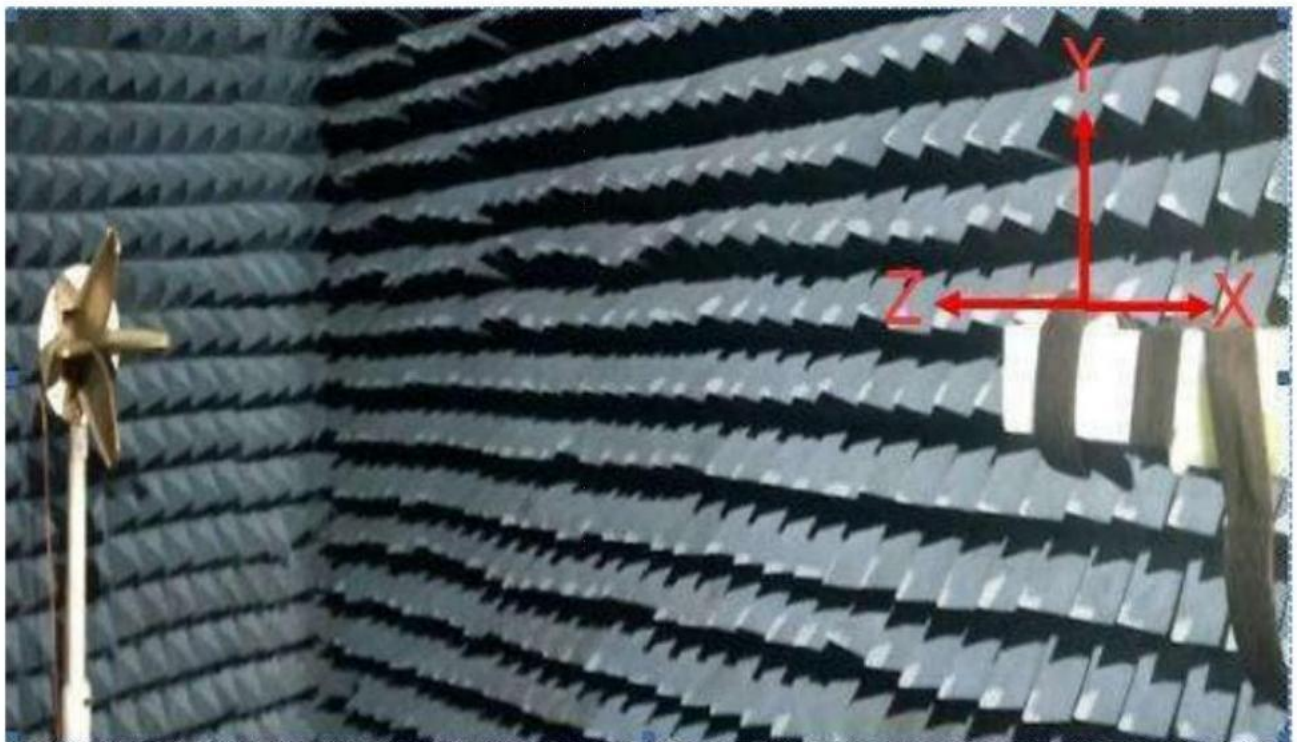
(Testing by 3D anechoic chamber)

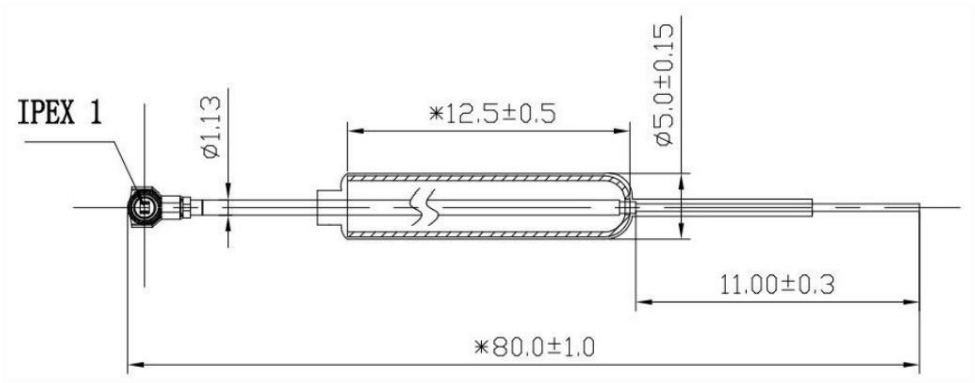


Phi axis test



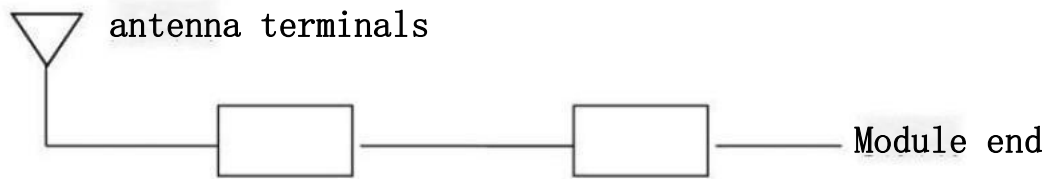
Theta axis test





				Third Angle	Project	Date	2021-05-28
A	New drawing			0~10	± 0.05	0	0.02
				10~18	ten. 10	\odot	.03
				18~30	+0.12	\perp	0.02
				30~40	± 0.15		0.04
				40	Si, 0.20	Shi	0.5
Rev	Description	Date	Remark	Location			
1	2	3	4	5	6	7	8

- building-out circuit



The original motherboard matching circuit is unchanged

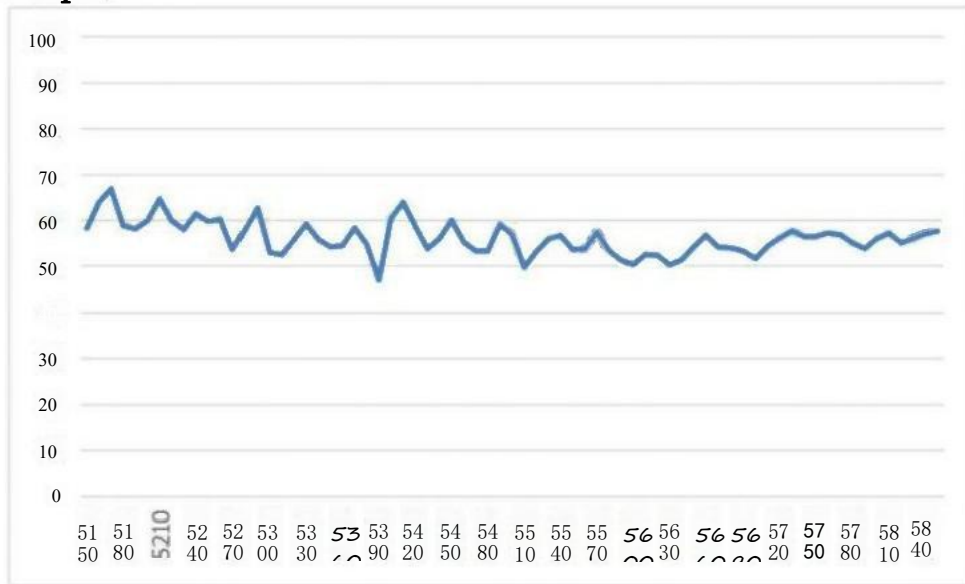
- Passive Test Report

- ◆ S11 Fig

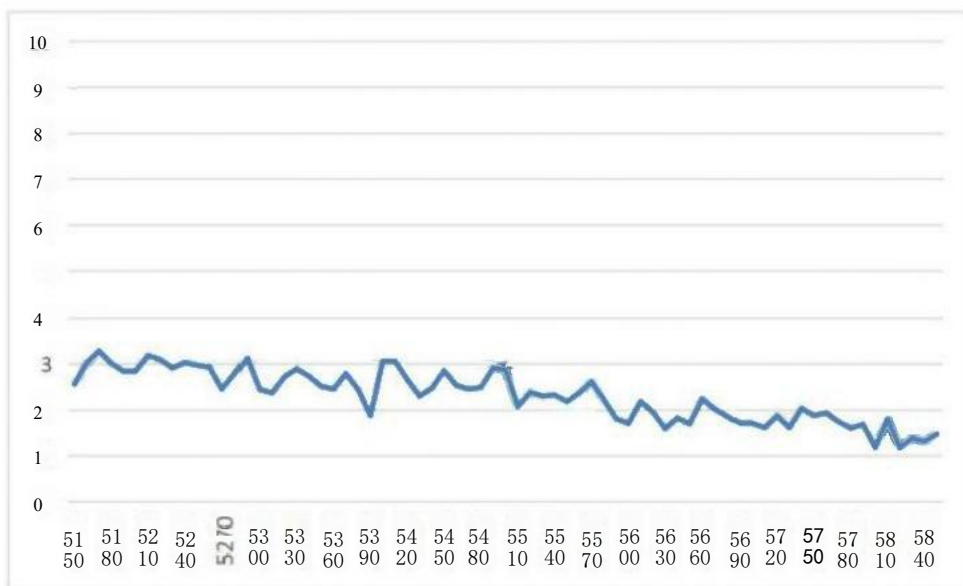


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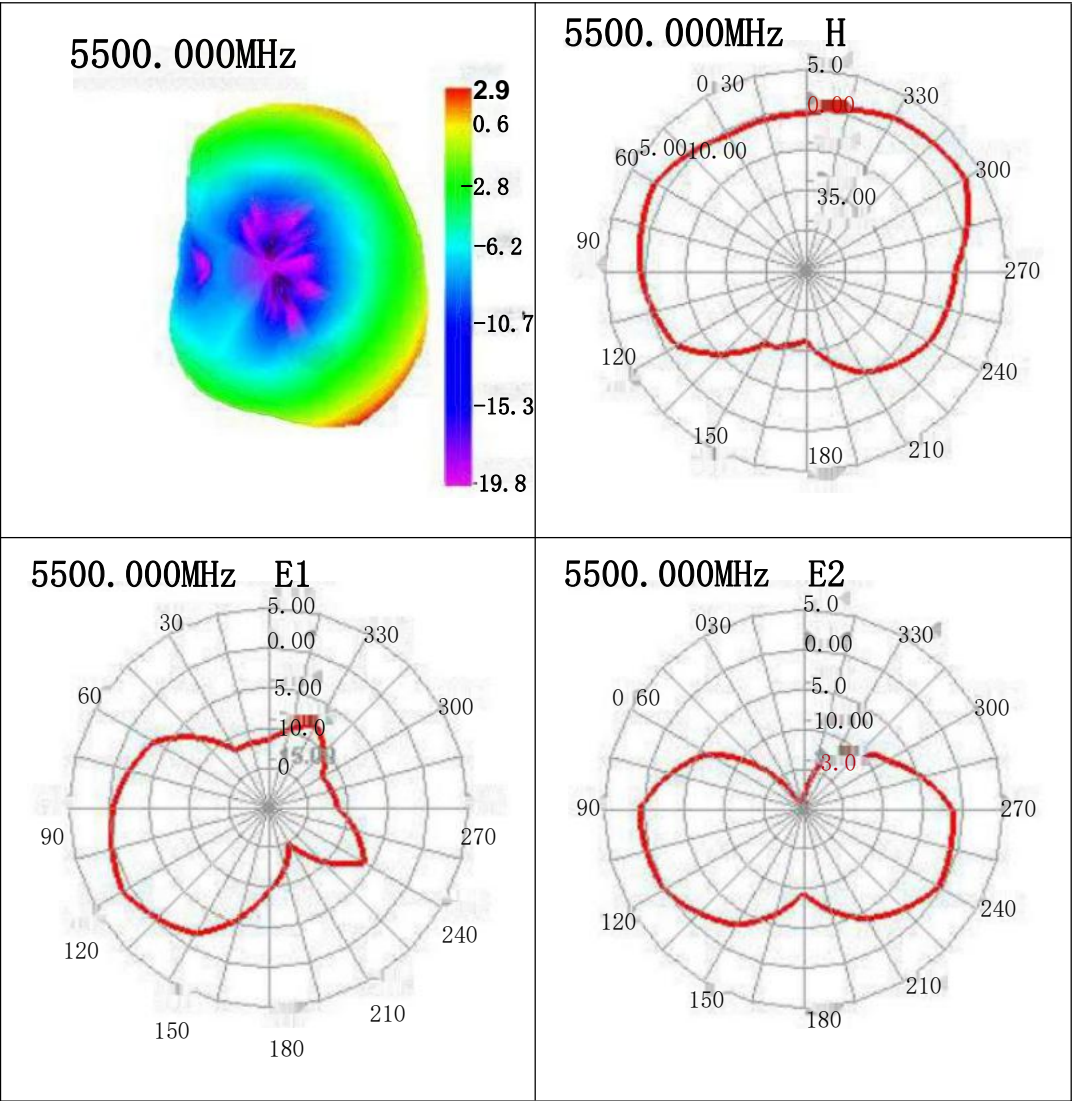
◆ productiveness



◆ gain



antenna pattern



◆reliability test

test item		test condition	equipment	standard	bear fruit
1	Low temperature test	<p>Temperature: -30℃, humidity: 65%, time: 48 hours Test conditions:</p> <p>Place the antenna in the high and low temperature test box at 25℃ and humidity at 65% for 1 hour, then reduce the temperature to -30℃ for 44 hours, and then heat up to 25℃ 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℃, 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℃, keep the humidity at 65% for 1 hour, then within 1 hour, raise the temperature to 80℃, humidity at 85%, keep for 44 hours, then reduce the temperature to 25℃ 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℃</p> <p>humidity 85%</p>	Salt mist test machine	No color change, no rust appeared	pass through

		Salt spray spray: 5 ± 1% PH value 6.5~7.2 Time: 24 hours			
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