

**Sample sending antenna of
Dong Guan Han Yi Electronics Co., Ltd
Room 503, Building 2, No. 547, Jinxing Road, Liaobu
Town, Dongguan City, Guangdong Province**

Letter of Recognition

Customer Name:

Customer Item No:

Hanyi Material No: 5G-95mm-4.4mm-Antenna Buckle

Specification Description: 5G Copper Tube Antenna, Line Length

L:95mm

Factory Seal:

Write	Examine	Approval

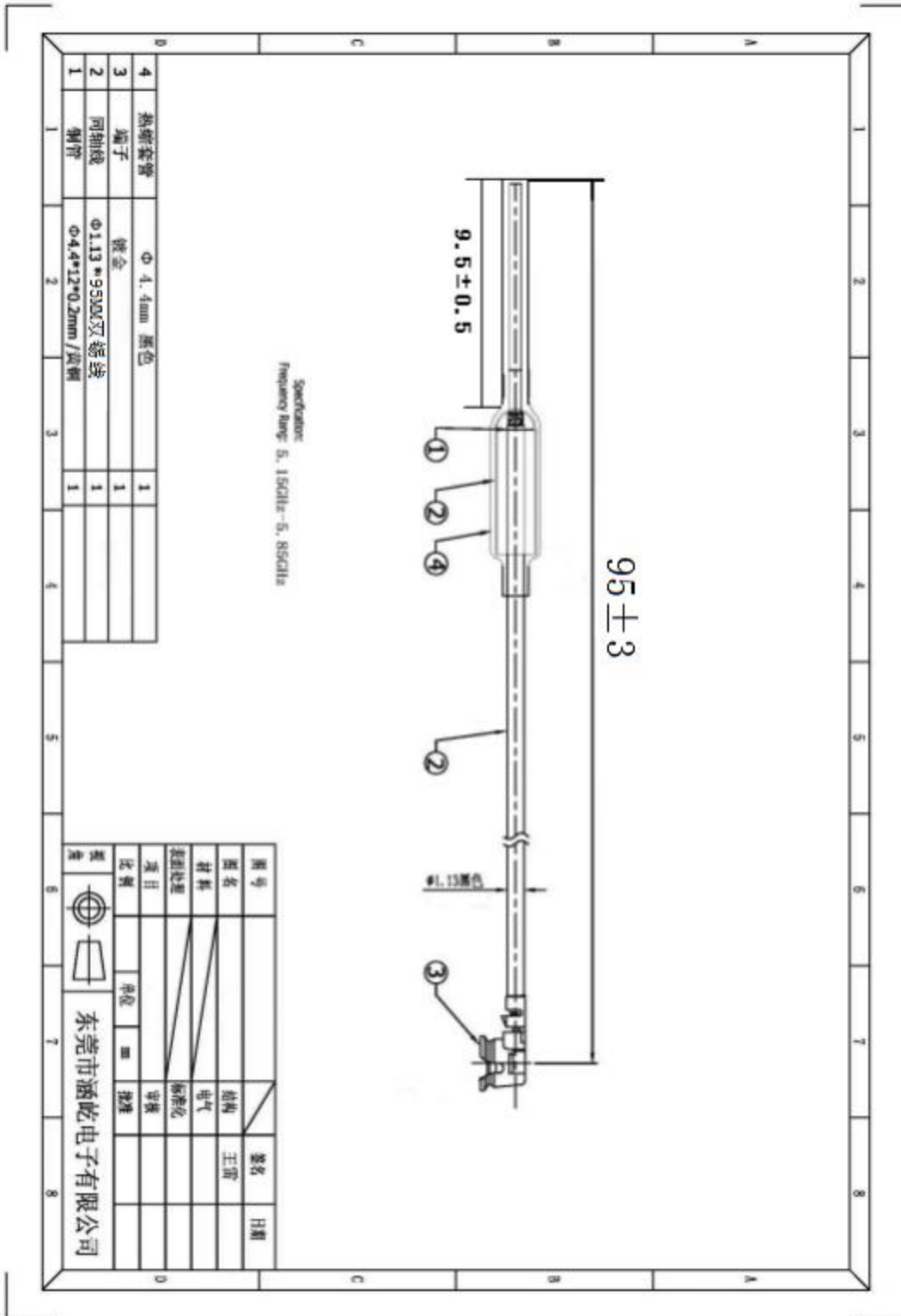
Customer Acknowledgement (signature):

Check	Examine	Approval

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3、Product Picture

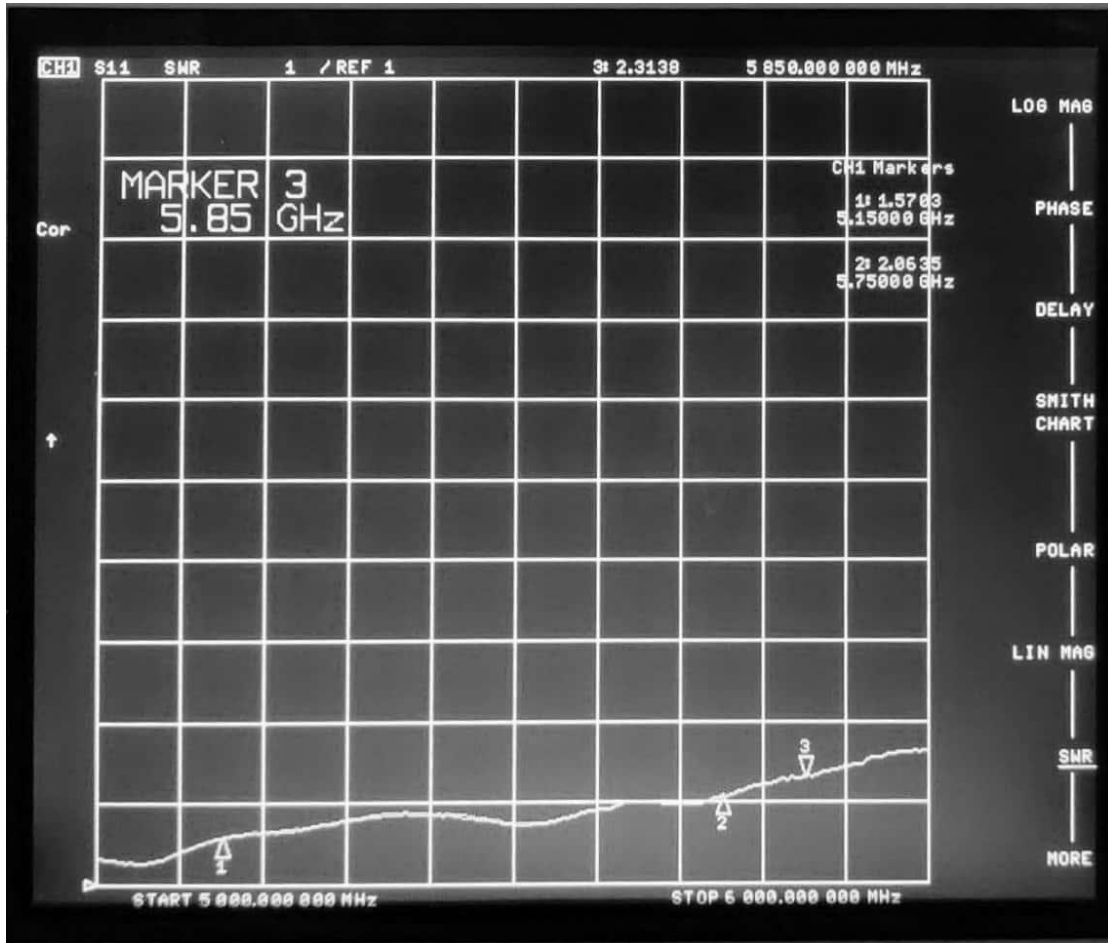


4、Specification

Parameter	
Frequency	5015–5800MHz
Impedance	50 Ω
VSWR	≤2.5
Connector	First generation terminal
Mechanical Parameter	
Length	95 ± 3mm
Cable	/
Salt Spray Test	24H
Environment Parameter	
Operation Temperature	-20℃~65℃
Storage Temperature	-30℃~75℃

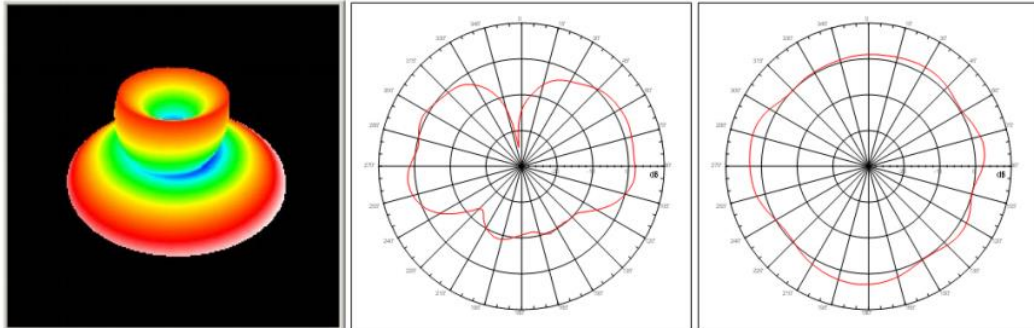
5、Radiation Report

5.1 Standing Wave Diagram



Frequency	Peak Gain (dBi)	Efficiency (%)
5150MHz	2.16	108
5250MHz	2.1	97
5350MHz	1.96	95
5450MHz	1.8	101
5550MHz	1.95	99
5650MHz	1.88	105
5750MHz	1.91	102
5850MHz	1.88	94

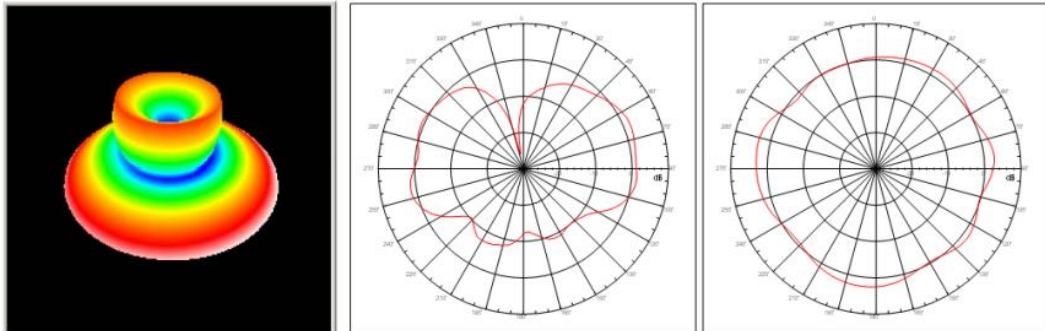
5.2 Directional Diagram



5.15GHz

Gain:2.16

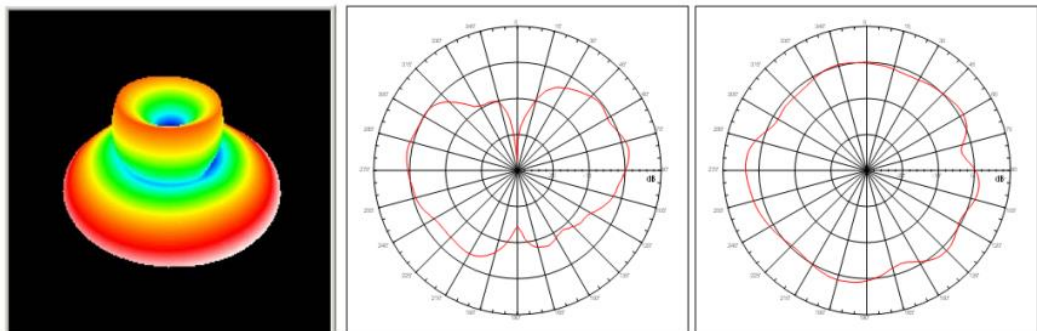
Efficiency:108.0%



5.35GHz

Gain:1.96dBi

Efficiency:95.0%



5.85GHz

Gain:1.88

Efficiency:94.0%

Dong Guan Han Yi Electronics Co., Ltd

Reliability Report

6. 1. Constant Temperature and Humidity Test

Project	Constant Temperature and Humidity Test	Check ID		
Product Name	Copper tube antenna	quantity:5PCS		
Date Of Test: 2020-09-24		Date of Complete: 2020-09-25		
Equipment For Test: 1. Programmable Constant Temperature And Humidity Test Box 2. 8753ES Network Analyser				
Condition For Test: 1. Under room temperature, 65% humidity 2. Under 80° , 85%~90% humidity , 2 hour per circulation, total 24 hours				
Test Result				
Standard: 1、 Shedding-free, Non-cracking, No separation on the surface of metal ;Non-fading, Non-cracking, Non-deforming on the surface of nonmetal 2、 Test result meet the technical requirements				
Project	Before Test	After Test	Problem	Result
Appearance	shedding-free, Non-cracking, No separation	Non-fading, Non-cracking, Non-deforming	Void	Pass
performance	VSWR Pass	VSWR Pass	Void	Pass
Result: <input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL <input type="checkbox"/> Unable To Judge				
Test: Liu Jie Examine: Li Fei check: ZhangYunchun				

6. 2. Salt Spray Test

Project	Salt Spray Test	Test ID																		
Project Name	Copper tube antenna	quantity: 5PCS																		
Date of test: 2020-09-24		Date of complete: 2020-09-25																		
Test equipment: 1.HL-60-SS Salt Spray Test Tester																				
Test Condition: 1.35±2°C in the salt spray test box; 22~30°C in the laboratory 2.PH=6.5/7.2, the concentration of the sodium chloride decade to 50 ±10g/L after 24 hours on per 80 square centimeter																				
Test results: Pass																				
<table border="1"> <thead> <tr> <th>Number</th> <th>Result</th> <th>Problem</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Pass</td> <td>Void</td> </tr> <tr> <td>2</td> <td>Pass</td> <td>Void</td> </tr> <tr> <td>3</td> <td>Pass</td> <td>Void</td> </tr> <tr> <td>4</td> <td>Pass</td> <td>Void</td> </tr> <tr> <td>5</td> <td>Pass</td> <td>Void</td> </tr> </tbody> </table>			Number	Result	Problem	1	Pass	Void	2	Pass	Void	3	Pass	Void	4	Pass	Void	5	Pass	Void
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