



**ONE PLUS ONE**  
Wireless Communication

**深圳市一加一无线通讯技术有限公司**

**承认书**  
**APPROVAL SHEET**

客户 Customer	翠联		
项目名 Project	GT01-915		
料号 Part No.			
规格 Specification	915MHZ Antenna		

APPROVAL			
OnePlusOne:			
RF Check	ME Check	QC Check	Confirm By
Customer:			
EE Check	PM Check	QC Check	Confirm By

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Project: GT01-915	Author: Haiou.Zhu	File Name: GT01-915_APP_A.doc
Date: 2019-08-30		
Revision:	A	
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Date:	Revision:	Updates and changes:	Issued by:
2019-08-30	A	Initial sheet	Haiou.Zhu

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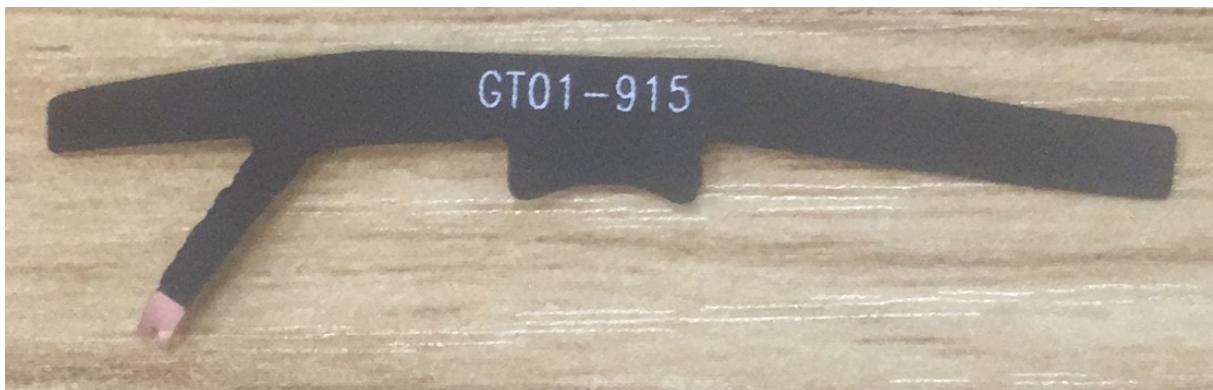
# 1 Antenna description

It summarize 915MHZ antennas for project GT01.GT01-915 antenna's frequency band is 2868-915MHZ, GT01-915 antenna's type is MONOPOLE

## 1.1 Part number

Part number of antenna: **GT01-915**

## 1.2 Antenna pictures



# 2 Electrical Performance

## 2.1 Specificatio

Frequency Range	915MHz
Return Loss	<-5
Efficiency	>30%

## 2.2 Measurement Set-up

### 2.2.1 VSWR and Return Loss

VSWR measurements ( $S_{11}$ ) were performed using an Agilent ENA series Network Analyzer and the previously described test fixture. Coaxial chokes were used to mitigate surface currents on the outside of the cabling. The testing was performed in free space.

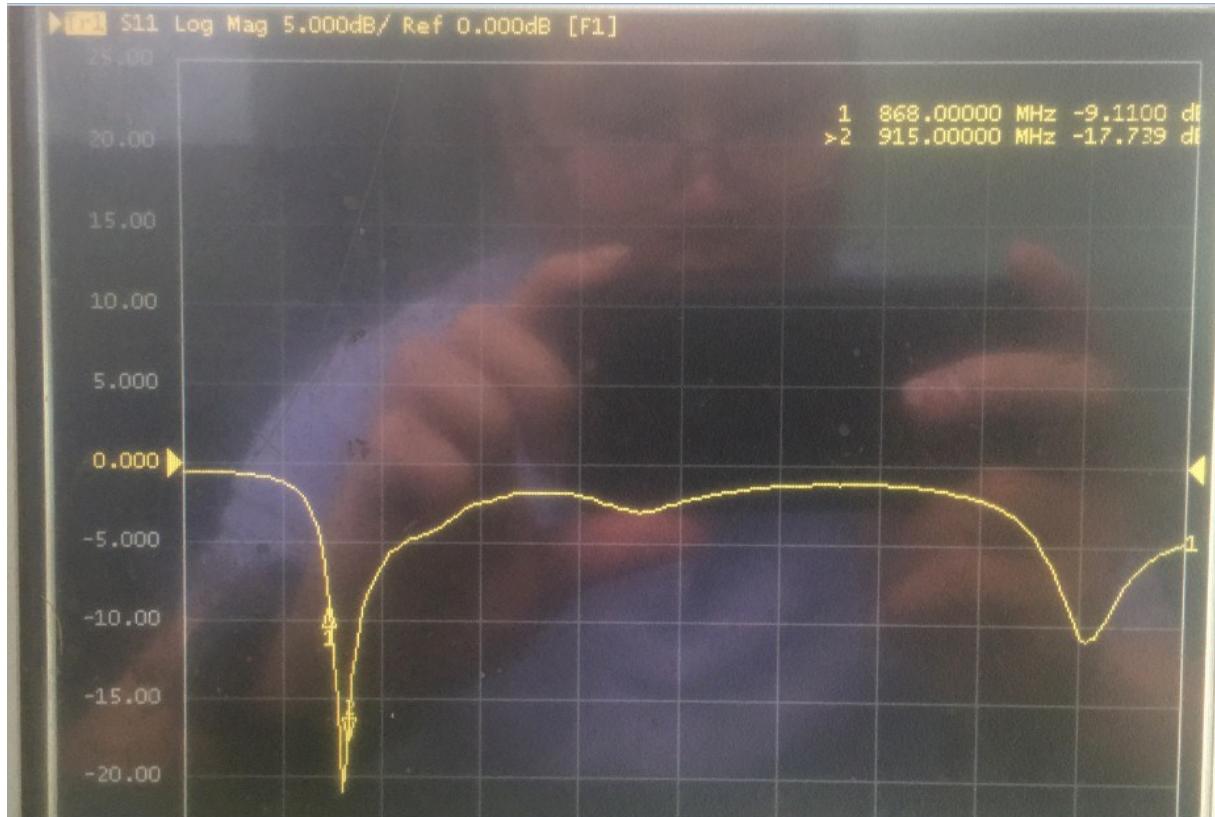
### 2.2.2 Efficiency and Gain

The gain of the antenna was measured in OPO's 3D anechoic chamber in Shenzhen, China. The chamber is a ETS system capable of doing tests from 380MHz to 6GHz. Coaxial chokes on the feed cable were used to mitigate surface currents during passive tests. The measurement results are calibrated using dipole standards. For TRP and TIS the chamber uses a 8960 / MT8820C to establish the connection with the mobile device and read the power.

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### 3 Reference measurement data

#### 3.1 Passive



**Return Loss**

#### 3.2 EFF

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
860	38.63	-4.13	-1.32
870	41.26	-3.84	-0.68
880	43.84	-3.58	-0.98
890	43.29	-3.64	-1.05
900	42.58	-3.71	-0.87
910	40.19	-3.96	-1.11
920	42.79	-3.69	-0.67

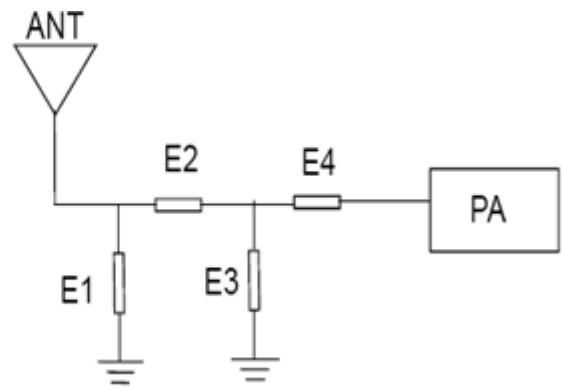
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### 3.3 Matching Circuit Description

E1	6.8NH
E2	0欧姆
E3	NC
E4	0欧姆



匹配电路上并联 6.8NH 电感

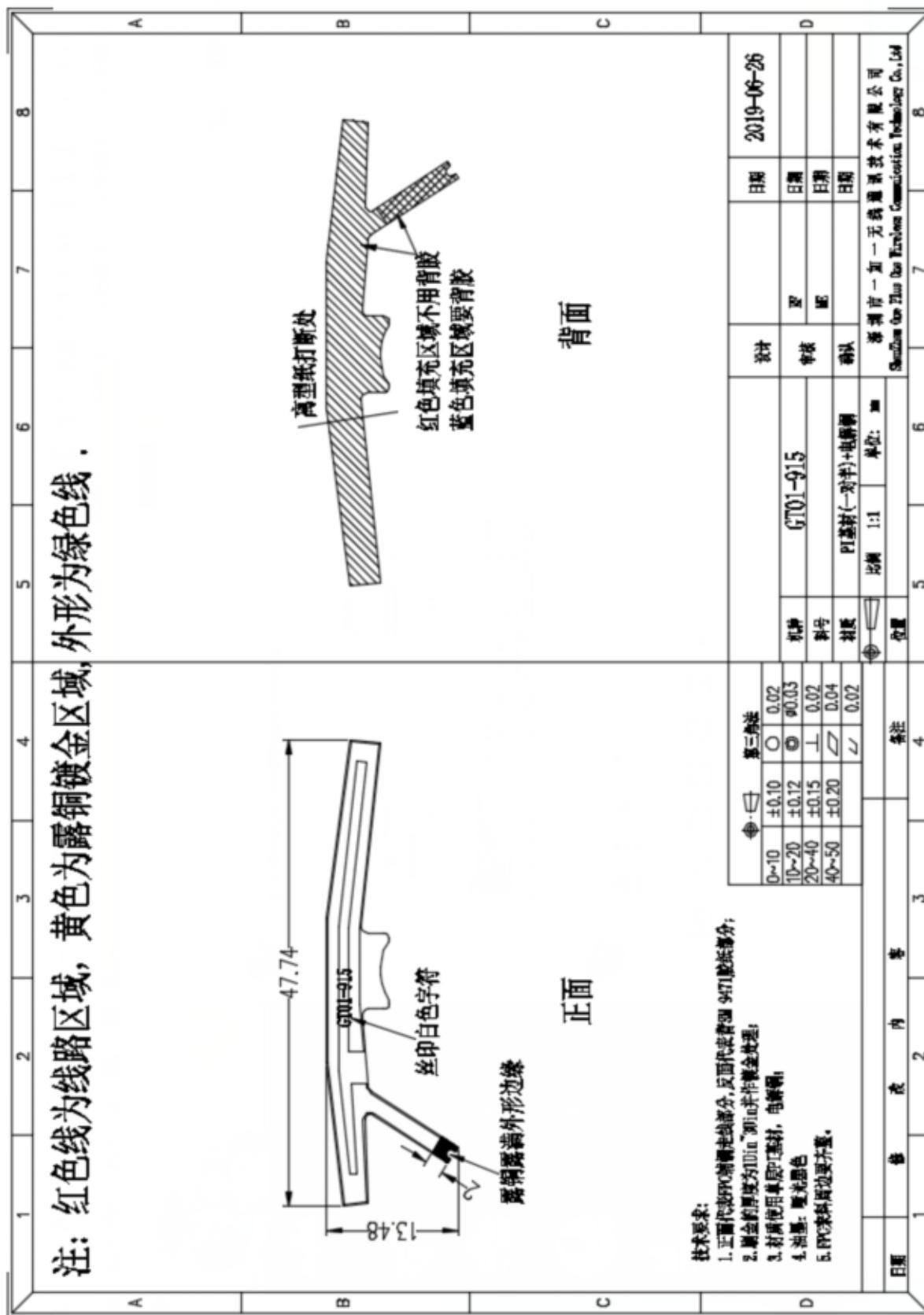


环境处理

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## 4 Mechanical description

### 4.1 Drawings



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