

# Bluetooth antenna of PCB on-board specification

## 1, Index

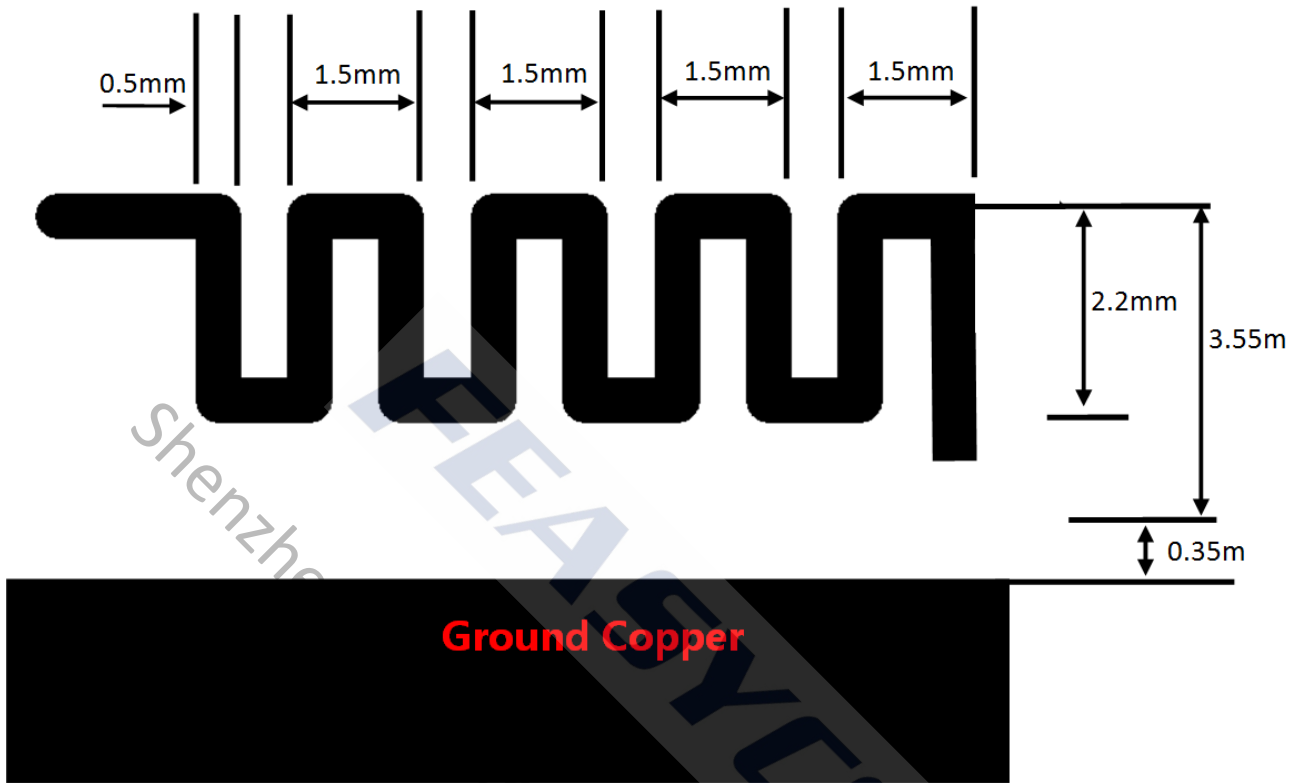
Item	Content	Page	Remark
1	Index	1	
2	Spec Drawing	2	
3	Specification	2	
4	Antenna On Test Board	3	
5	Return Loss	3	
6	Radiation Pattern	3	

Document Type: 2.4GHZ PCB antenna  
Document Version: V1.0  
Release Date: Oct. 30, 2018

ShenZhen Feasycom Technology Co.,Ltd

Telephone: 86-755-27924639

## 2, Spec Drawing



## 3, Specification

**Product Number:** 2.4GHz PCB antenna

**Sample Photo:**



### A. Electrical Characteristics

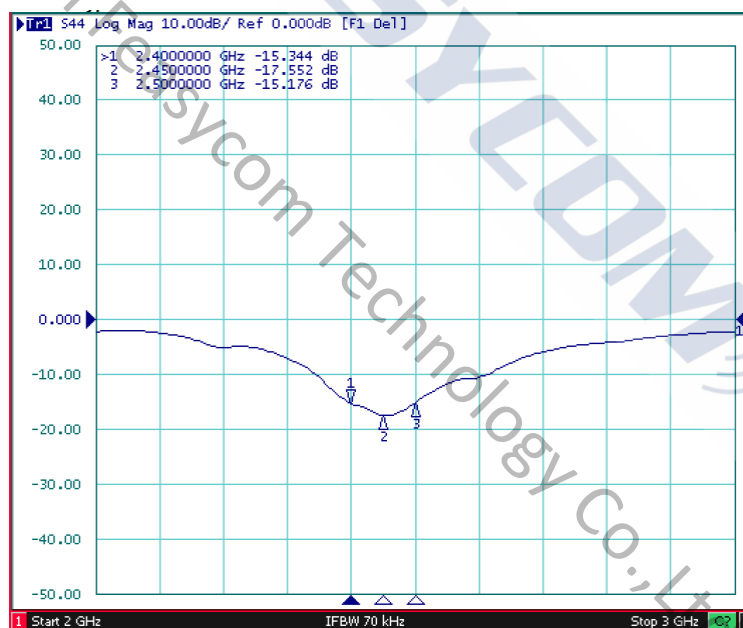
Frequency	2400 ~ 2500 MHz
S.W.R.	$\leq 2.0$
Gain	2.0 dBi
Efficiency	~ 50%
Polarization	Linear
Impedance	50 Ohm

B. Material & Mechanical Characteristics	
Material of Radiator	Gold-plated copper
C. Environmental	
Operation Temperature	- 40°C ~ + 85°C
Storage Temperature	- 40°C ~ + 105°C

## 4, Antenna On Test Board

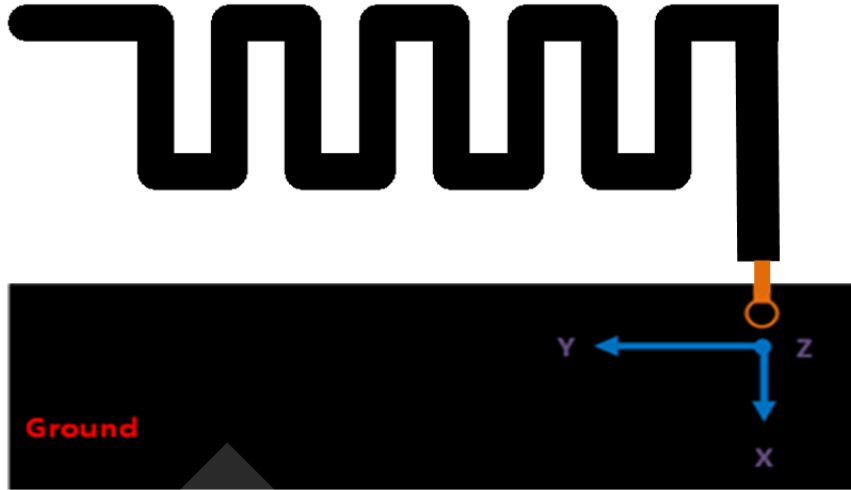


## 5, Return Loss

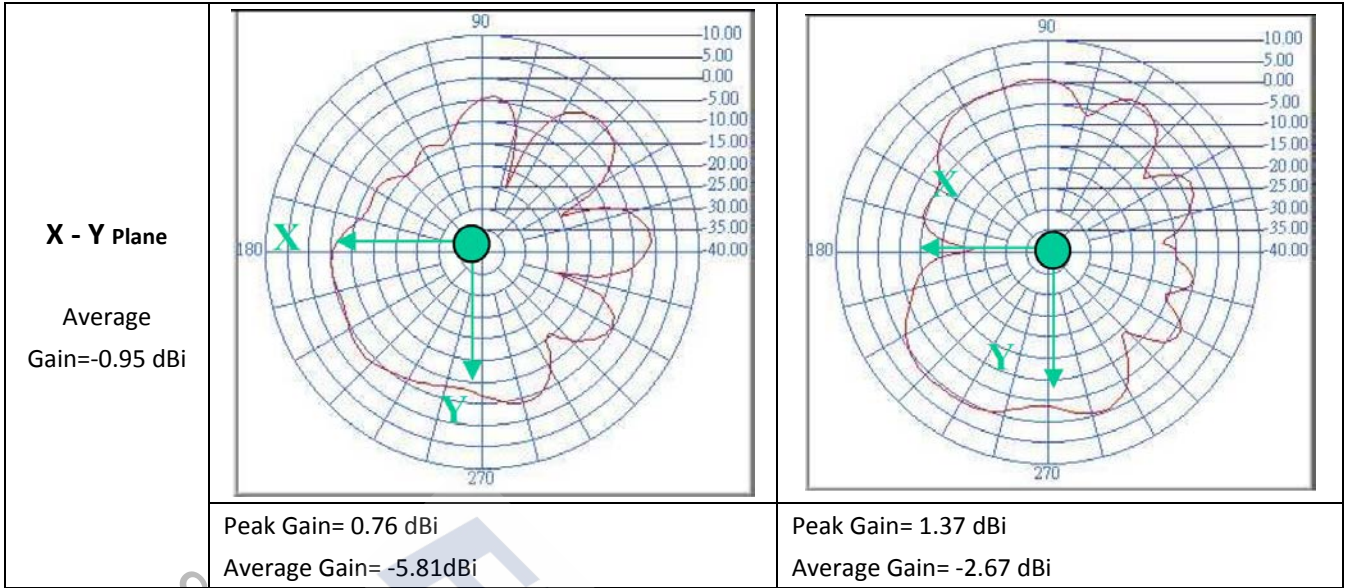


## 6, Radiation Pattern

Radiation Pattern and Gain were dependent on measurement board design. The specification of PCB antenna was measured based on the PCB size and installation position as shown in the below figure Test Board.



	Vertical	Horizontal
<b>Y - Z Plane</b>  Average Gain=1.19 dBi		
	Peak Gain = 2.00 dBi Average Gain = 0.71 dBi	Peak Gain = -1.37 dBi Average Gain = -8.6 dBi
<b>X - Z Plane</b>  Average Gain=-2.91dBi		
	Peak Gain = -3.76 dBi Average Gain = -8.72dBi	Peak Gain = -0.25 dBi Average Gain = -4.24 dBi



Shenzhen Feasycom Technology Co.,Ltd