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	
项目名 Project	SW-1U
料号 Part NO.	
规格 Specification	BT Antennas

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

承认鉴章后请寄回承认书一份
Please return to us one copy of "APPROVAL SHEET" with your approved signatures

Contents

1 Antenna description

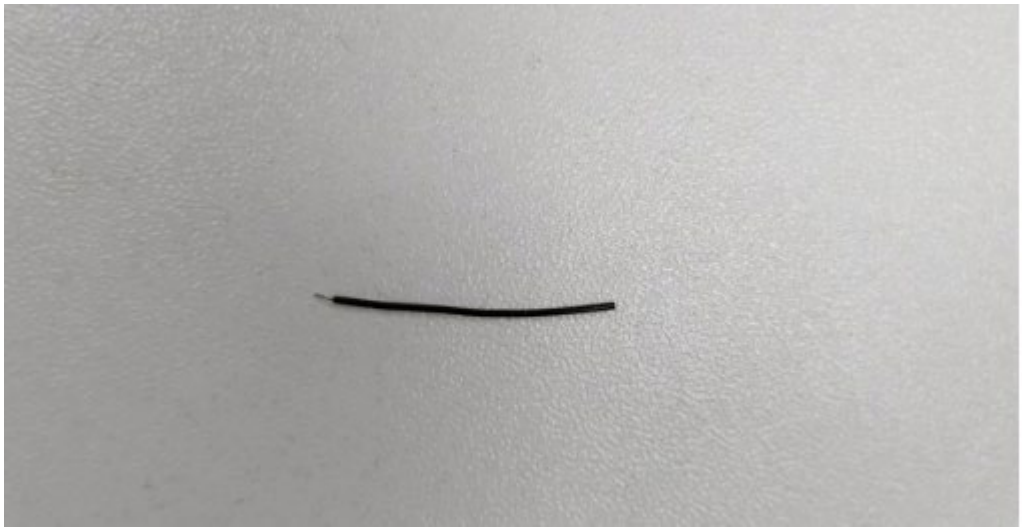
It summarize for project R23.BT antenna's frequency band is 2400-2500MHz.BT antenna's type is IFA.

1.1 Part number

Part number of antenna：

Antennapictures

1.2 Antenna pictures



2 Electrical Performance

2.1 Specification

BT	
Frequency Range	2400MHz~2500MHz
Return Loss	<-5
Efficiency	>22%

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

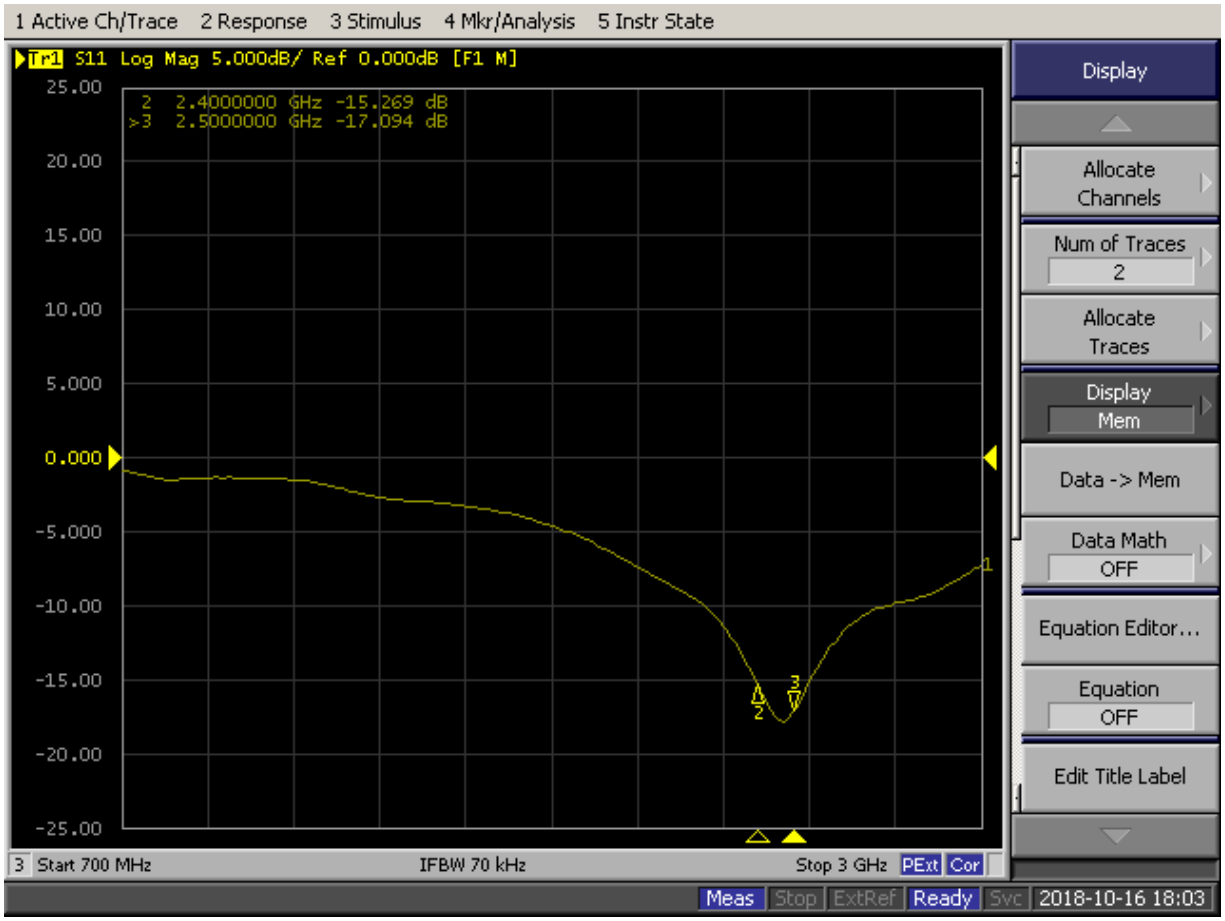
The gain of the antenna was measured in OPO's 3D anechoic chamber in Shenzhen, China. The chamber is a ETS system capable of doing tests from 380MHz to 6GHz. Coaxial chokes on the feed cable were used to mitigate surface currents during passive tests. The measurement results are calibrated using dipole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

3 Reference measurement data

3.1 Passive

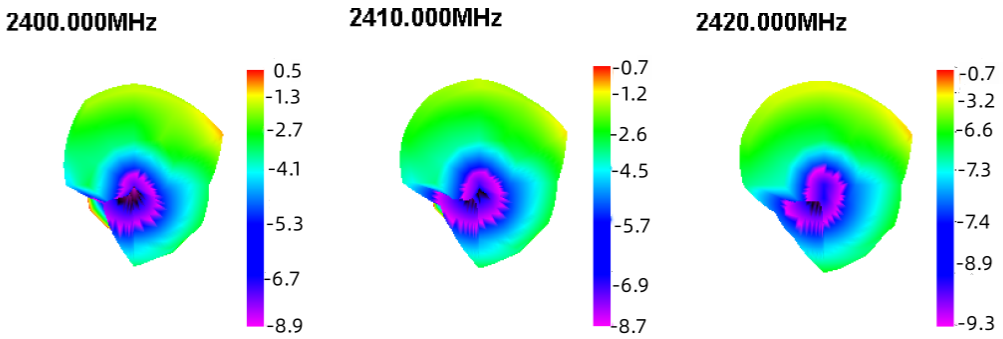
BT

ReturnLoss



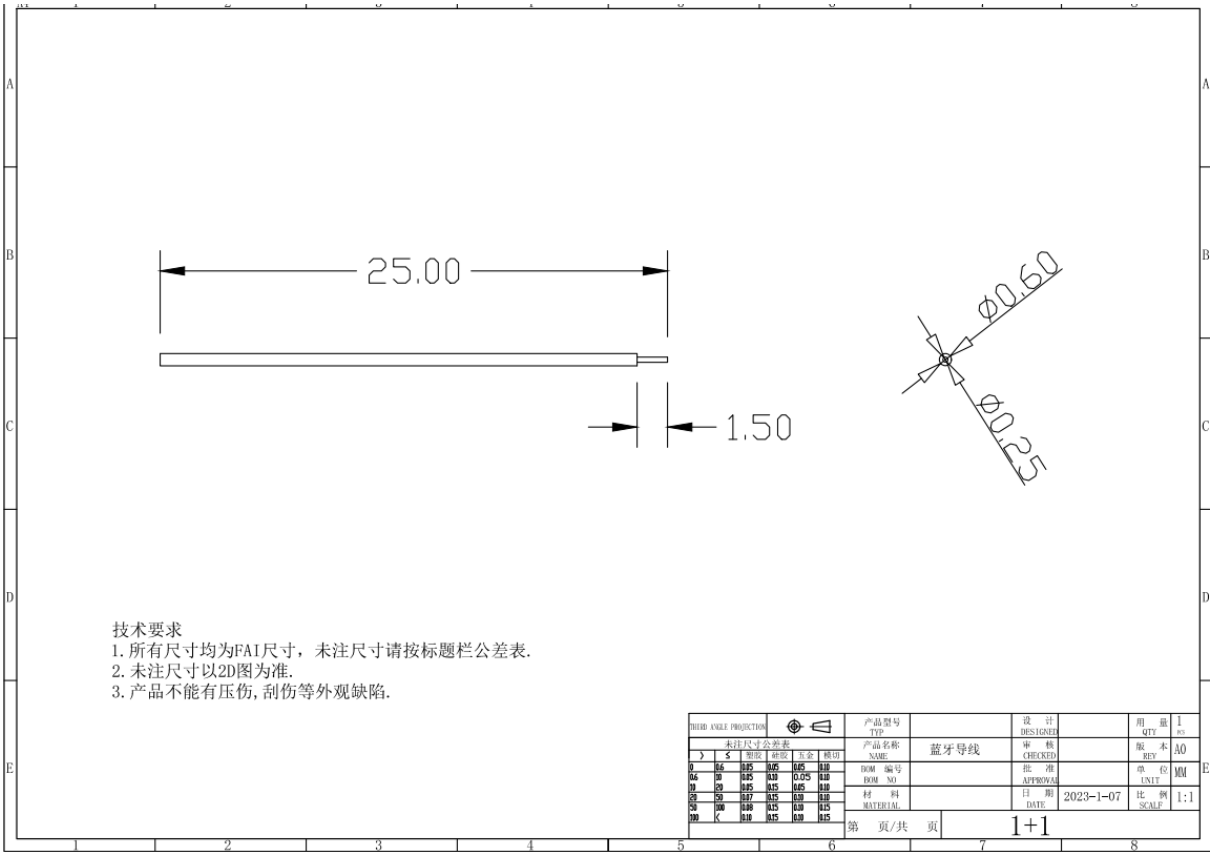
3.2 Active

Passive Test For BT			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	20.11	-6.97	0.58
2410	19.79	-7.04	-0.74
2420	22.47	-6.48	-0.85
2430	20.84	-6.81	-0.68
2440	20.91	-6.80	-0.69
2450	19.74	-7.05	-1.16
2460	23.83	-6.23	0.3
2470	20.19	-6.95	-2.03
2480	20.6	-6.86	-1.41
2490	20.43	-6.90	-2.5
2500	19.89	-7.01	-1.73



4 Mechanical description

4.1 Drawings



技术要求
1. 所有尺寸均为FAI尺寸，未注尺寸请按标题栏公差表.
2. 未注尺寸以2D图为准.
3. 产品不能有压伤, 刮伤等外观缺陷.

THIRD ANGLE PROJECTION		产品型号 TYP		设 计 DESIGNED		用 量 QTY	1 PCS		
未注尺寸公差表		产品名称 NAME	蓝牙导线	审 核 CHECKED		版 本 REV	A0		
〉	≤	塑胶	砷胶	五金	精切	BOM 编号 BOM NO		批 准 APPROVAL		单 位 UNIT	MM
0	6	0.05	0.05	0.05	0.03						
6	30	0.05	0.10	0.05	0.03						
30	120	0.05	0.15	0.05	0.10						
120	250	0.07	0.15	0.10	0.10	材 料 MATERIAL		日 期 DATE	2023-1-07	比 例 SCALE	1:1
250	500	0.08	0.15	0.10	0.15						
500	K	0.10	0.15	0.10	0.15	第 页/共 页		1+1			

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Revision:	A	

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Shenzhen OnePlusOne Wireless Communication Technology Co.,Ltd.