



深圳市一加一无线通讯技术有限公司

承认书

APPROVAL SHEET

客户 Customer	爱保护
项目名 Project	AM05
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

Date:	Revision:	Updates and changes:	Issued by:
-------	-----------	----------------------	------------

Project: AM05	Author: Haiou.Zhu	File Name: AM05_APP_A.doc
Date: 2022-11-21		
Revision:	A	
CONFIDENTIAL		
Shenzhen OnePlusOne Wireless Communication Technology Co.,Ltd.		

2022.11.21	A	Initial sheet	Haiou.Zhu

Contents

1	ANTENNA DESCRIPTION	3
1.1	Part number	3
1.2	Antenna pictures	3
2	ELECTRICAL PERFORMANCE	3
2.1	Specification	3
2.2	Measurement Set-up	3
2.2.1	VSWR and Return Loss	3
2.2.2	Efficiency and Gain	3
3	REFERENCE MEASUREMENT DATA	4
3.1	Passive	4
3.2	Active	4
4	MECHANICAL DESCRIPTION	5
4.1	Drawings	5

Project: AM05	Author: Haiou.Zhu	File Name: AM05_APP_A.doc
Date: 2022-11-21		
Revision:	A	
CONFIDENTIAL Shenzhen OnePlusOne Wireless Communication Technology Co.,Ltd.		

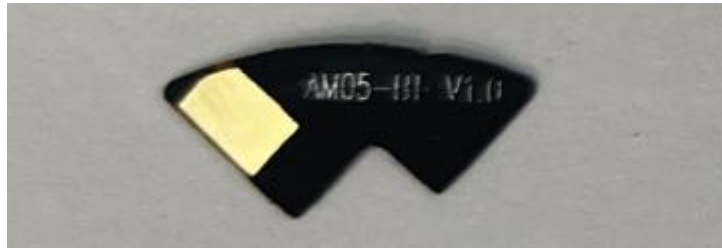
1 Antenna description

It summarize BT 3.0&BT 5.0 antennas for project AM05. BT 3.0&BT 5.0 antenna's frequency band is 2400-2500MHz. BT 3.0&BT 5.0 antenna's type is IFA

1.1 Part number

Part number of antenna: AM05

1.2 Antenna pictures



2 Electrical Performance

2.1 Specification

BT	
Frequency Range	2400MHz~2500MHz
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.

Project: AM05	Author: Haiou.Zhu	File Name: AM05_APP_A.doc
Date: 2022-11-21		
Revision:	A	
CONFIDENTIAL		
Shenzhen OnePlusOne Wireless Communication Technology Co.,Ltd.		

3 Reference measurement data

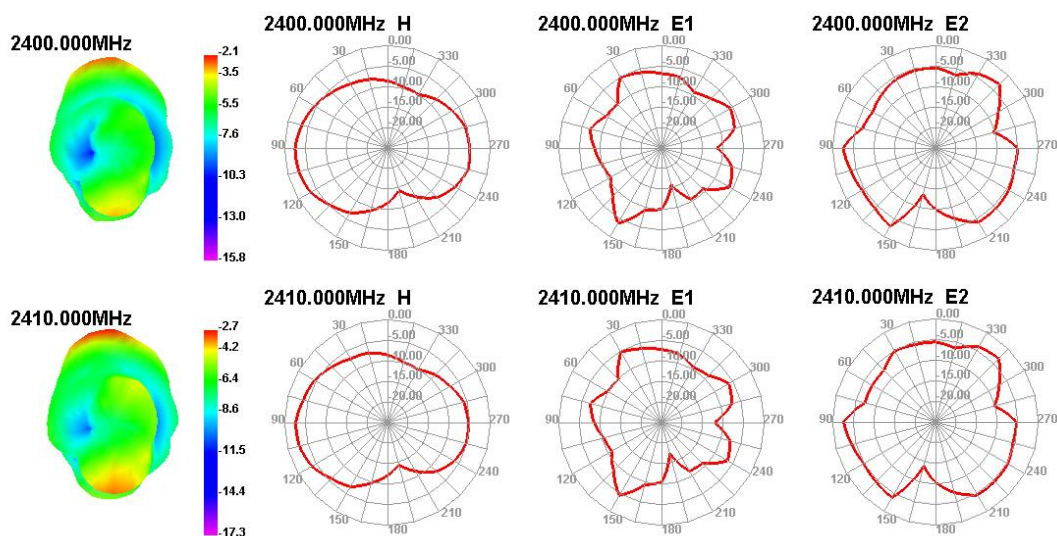
3.1 Passive



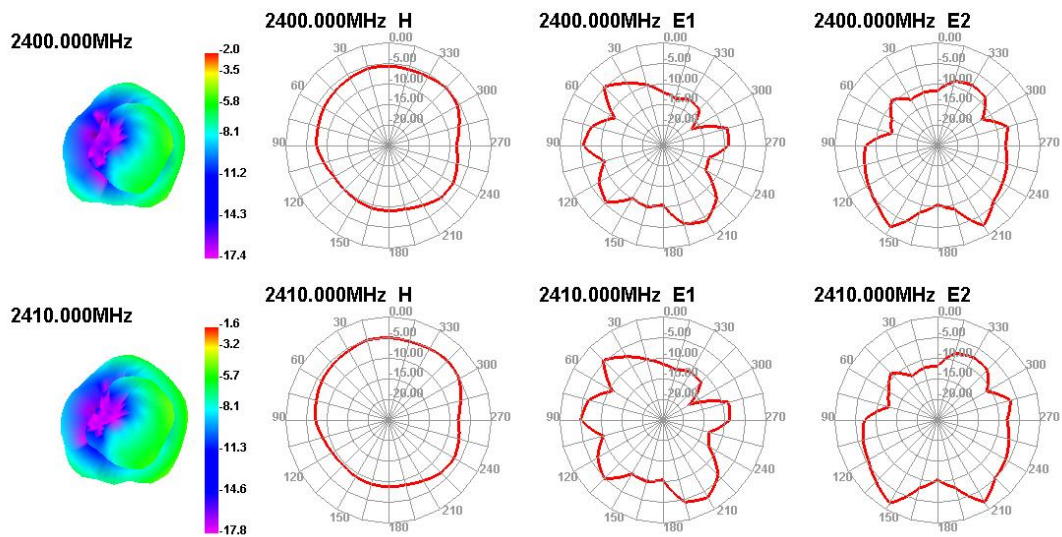
Return SWR

3.2 Active

Freq (MHz)	Effi (%)	Effi (dBi)
2400	25.42	-5.95
2410	30.93	-5.1
2420	36.05	-4.43
2430	30.27	-5.19
2440	28.34	-5.48
2450	31.56	-5.01
2460	32.36	-4.9
2470	36.5	-4.38
2480	31.49	-5.02
2490	33.43	-4.76
2500	34.75	-4.59

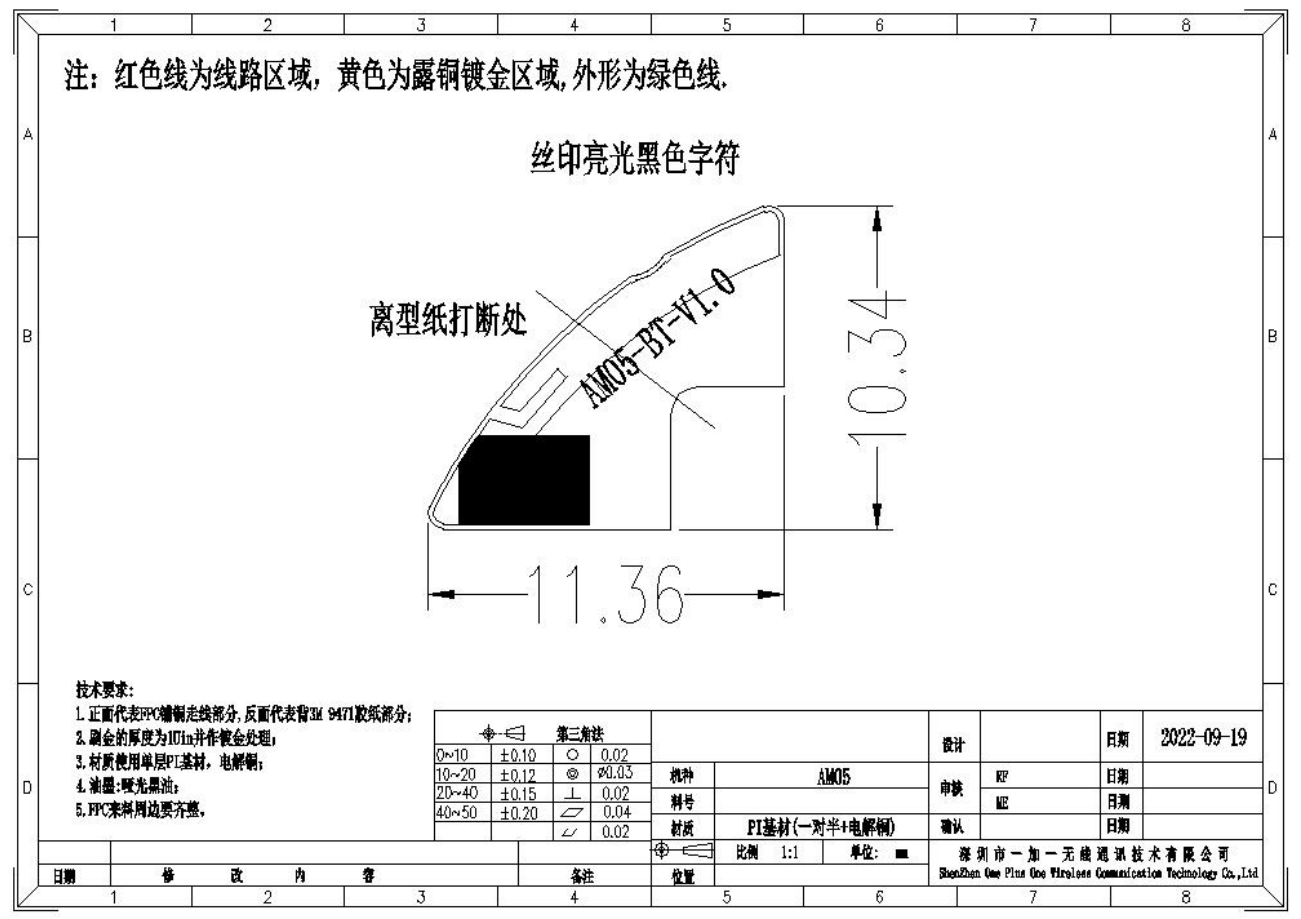


Project: AM05	Author: Haiou.Zhu	File Name: AM05_APP_A.doc
Date: 2022-11-21		
Revision:	A	
CONFIDENTIAL Shenzhen OnePlusOne Wireless Communication Technology Co.,Ltd.		



4 Mechanical description

4.1 Drawings



Project: AM05	Author: Haiou.Zhu	File Name: AM05_APP_A.doc
Date: 2022-11-21		
Revision:	A	
CONFIDENTIAL		
Shenzhen OnePlusOne Wireless Communication Technology Co.,Ltd.		